ANEJO Nº6. ESTRUCTURAS

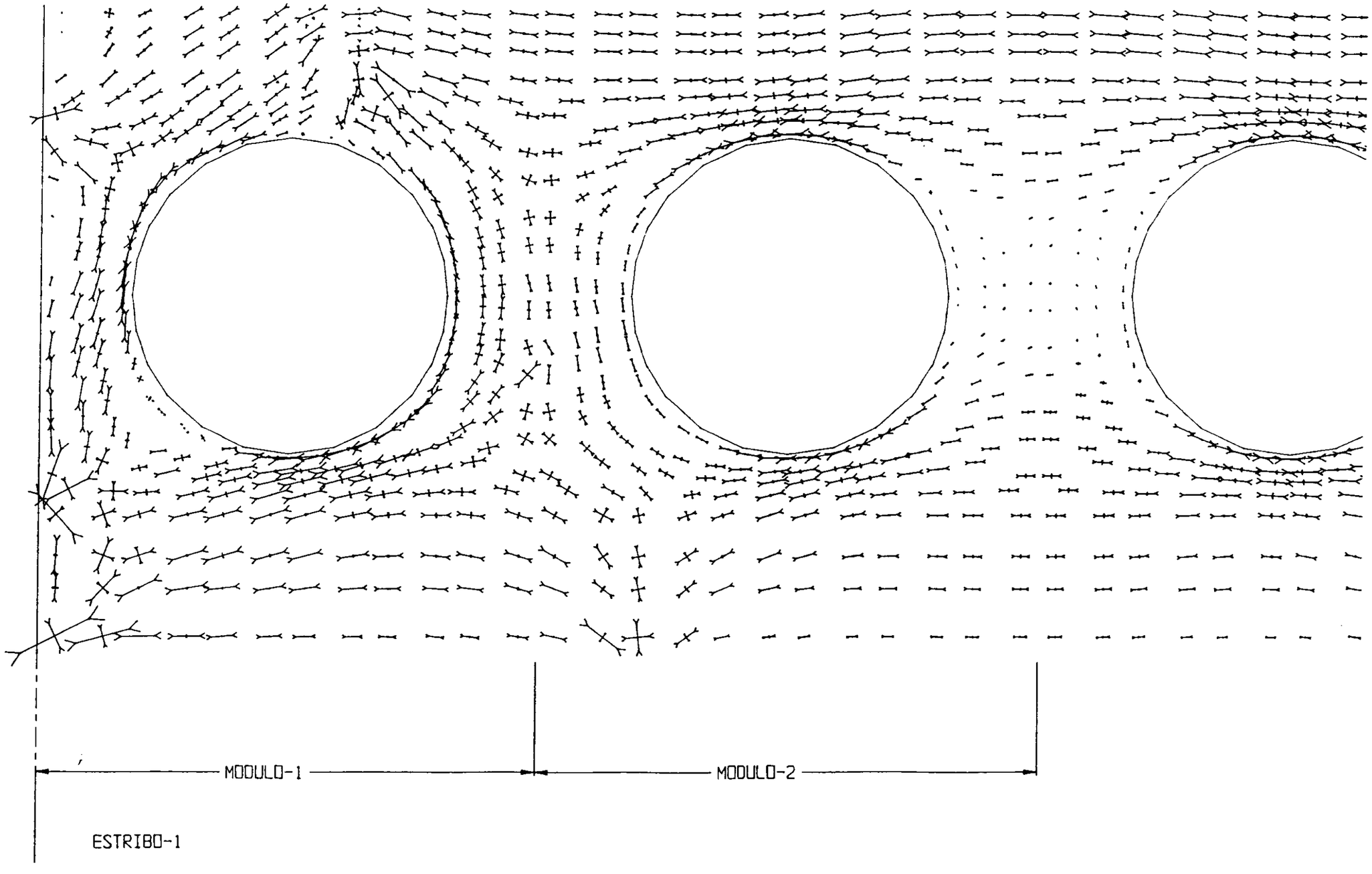
REPRESENTACION GRAFICA

PLANO DE ALMAS

alma
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plano de almas (Tensiones en el plano medio)

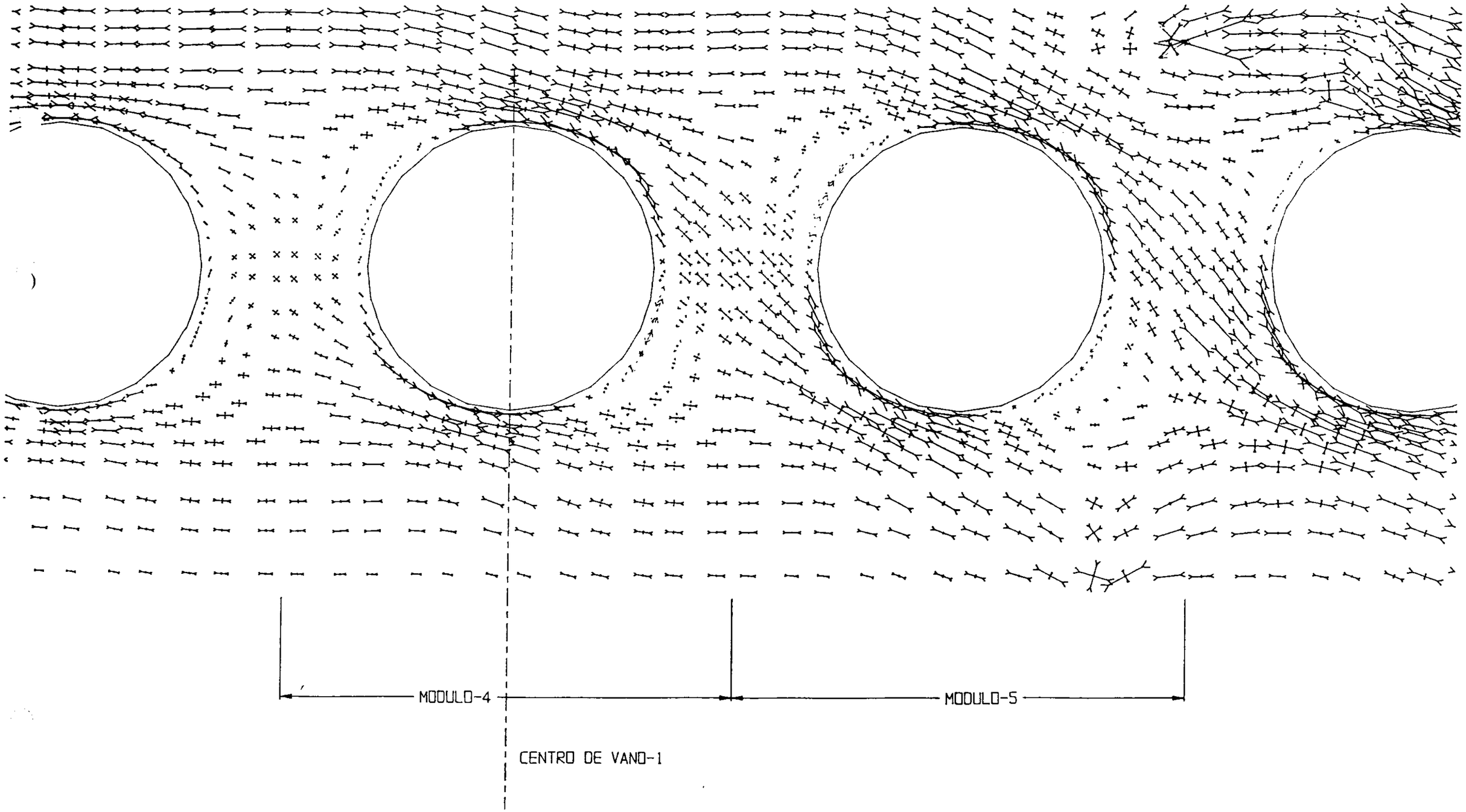
⟷ 2000.

2000.



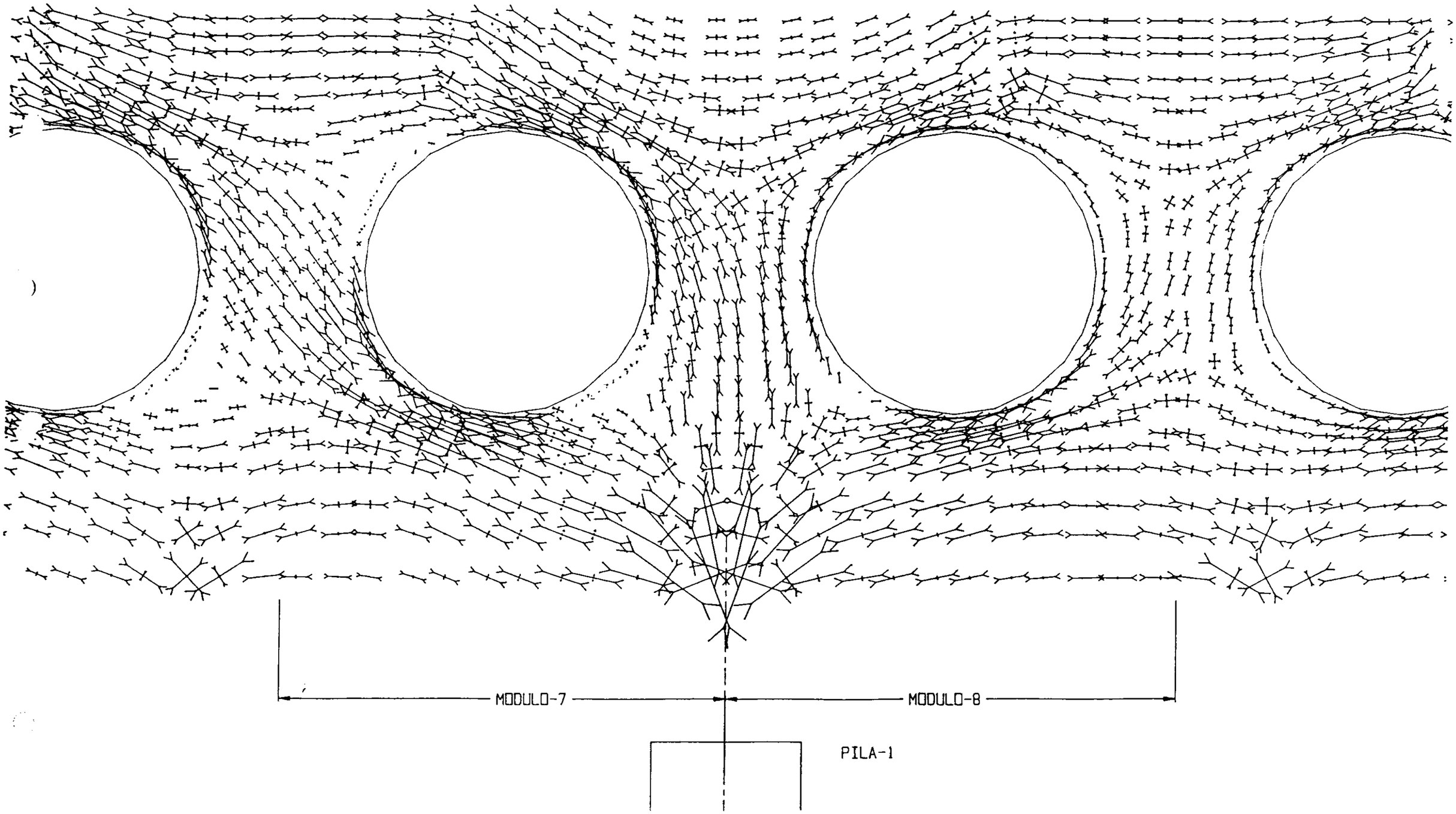
alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de almas (Tensiones en el plano medio)

⟷ 2000.



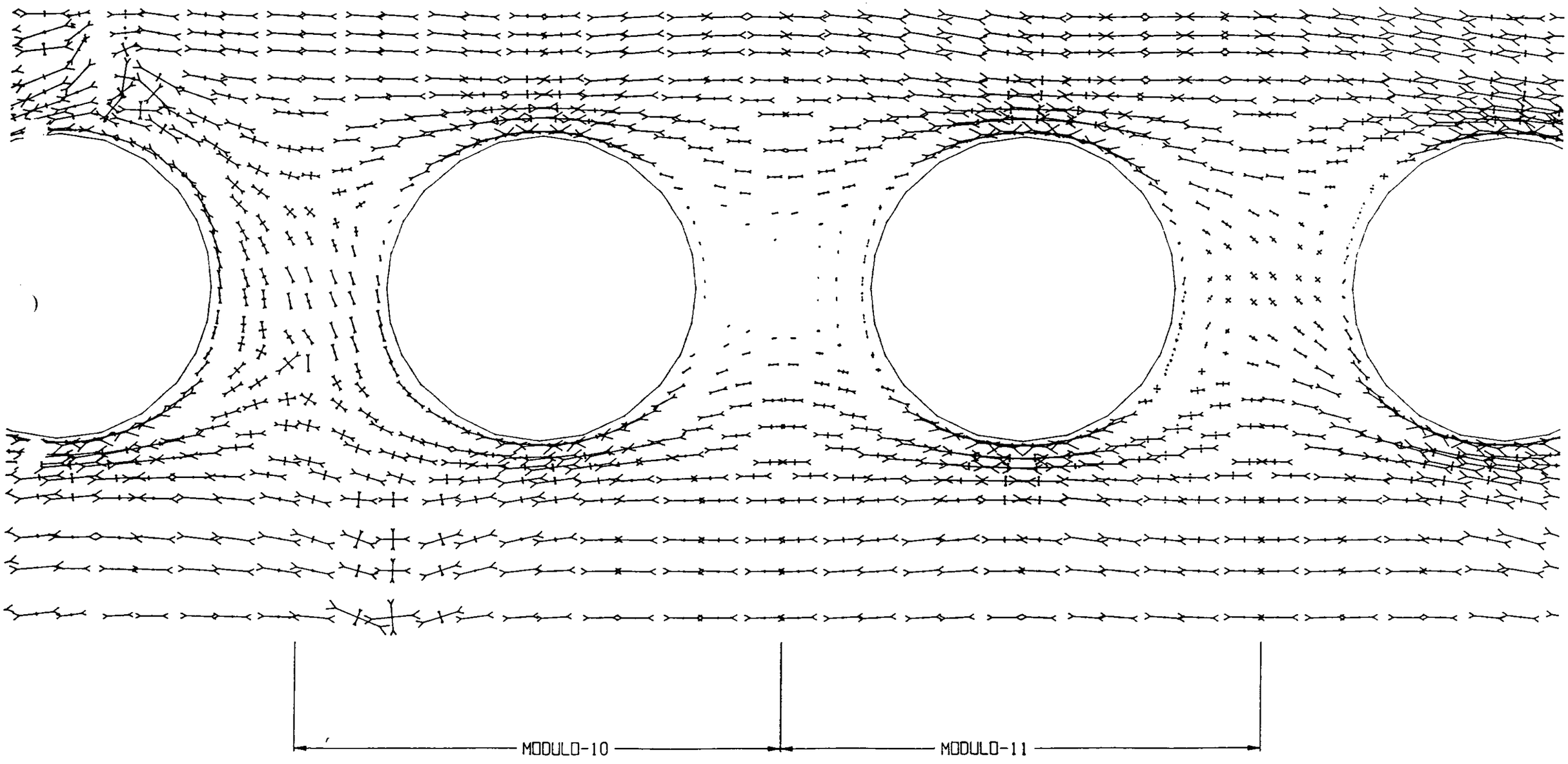
alma
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plano de almas (Tensiones en el plano medio)

⟷ 2000.



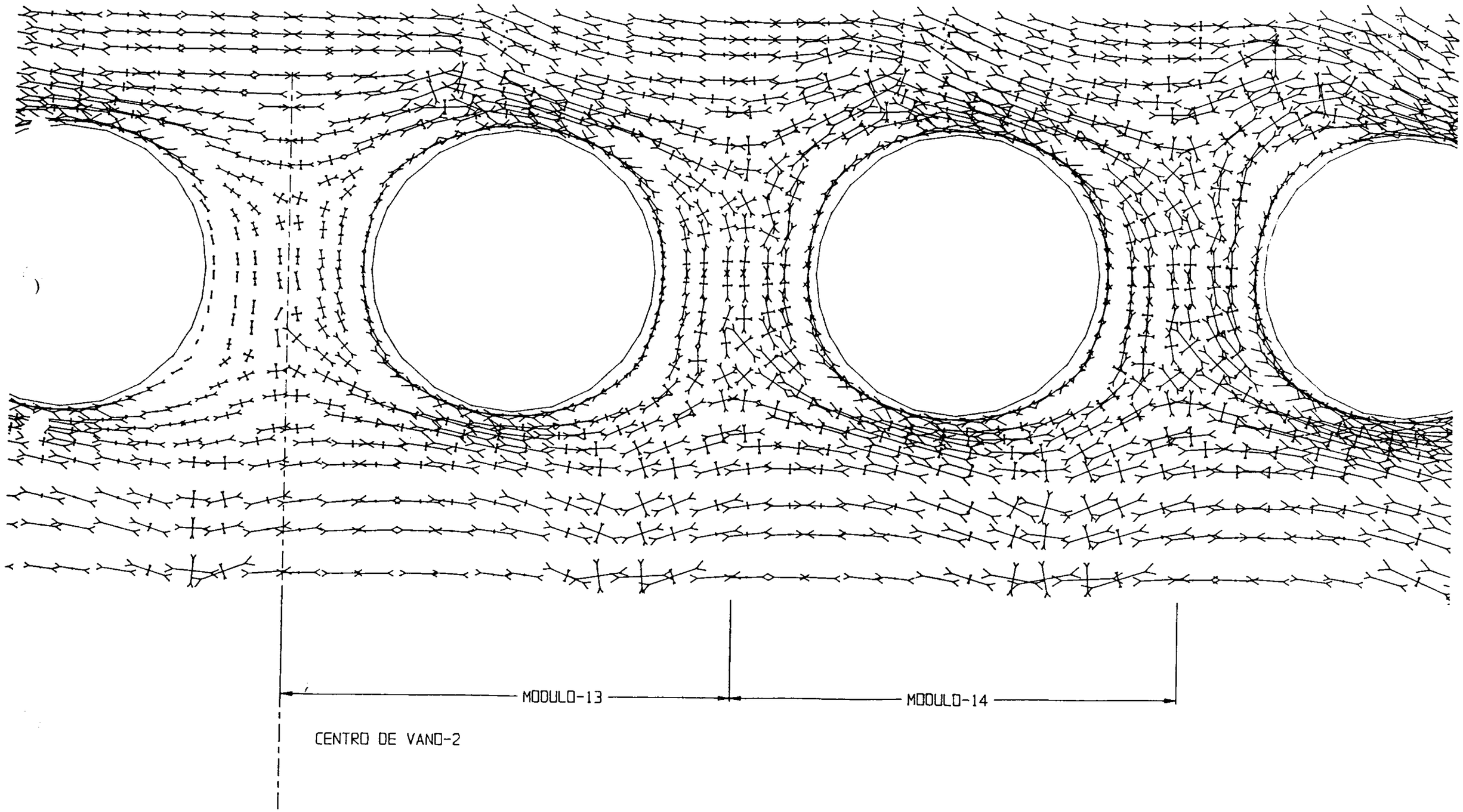
alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de almas (Tensiones en el plano medio)

⟷ 2000.

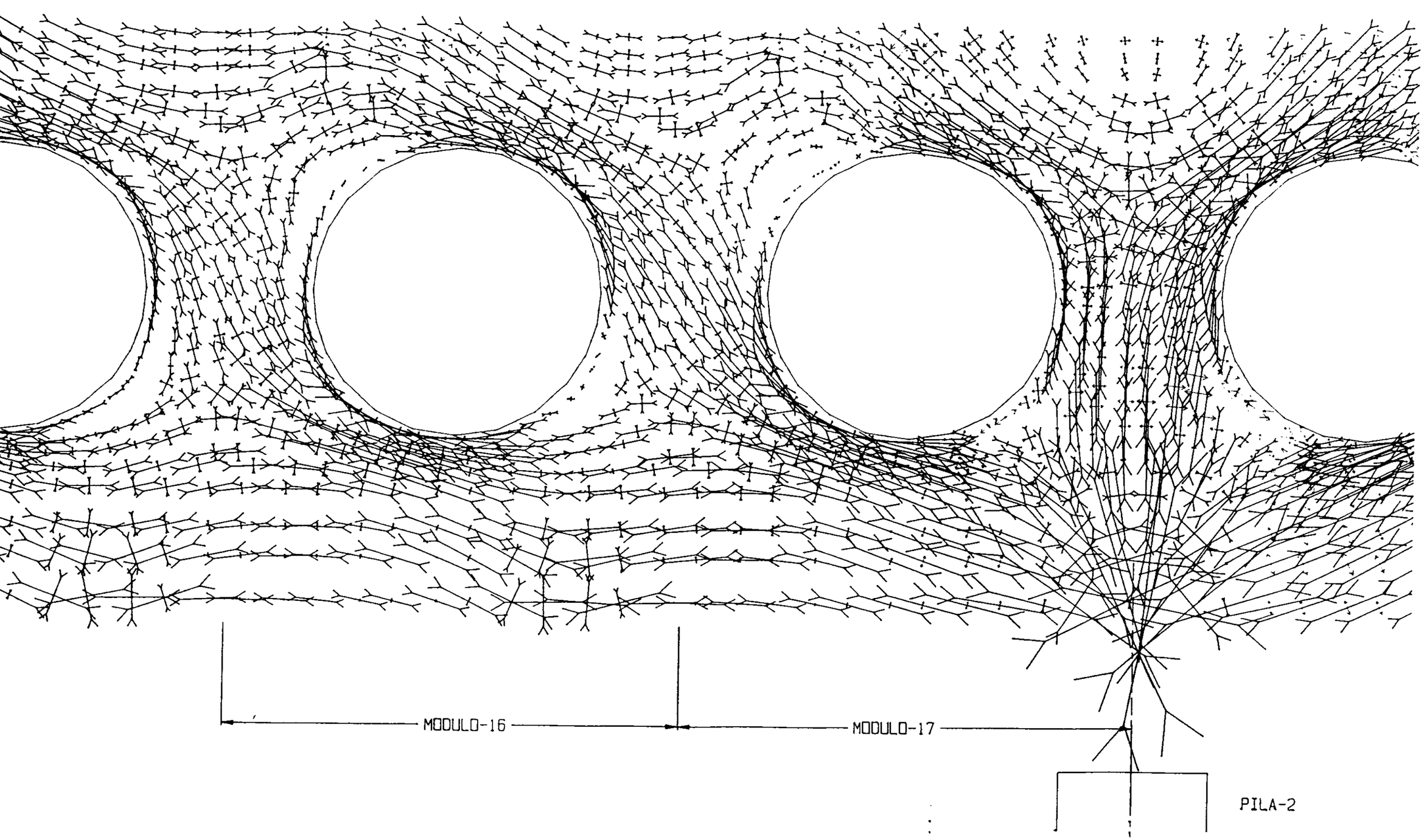


alma
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plano de almas (Tensiones en el plano medio)

⟷ 2000.

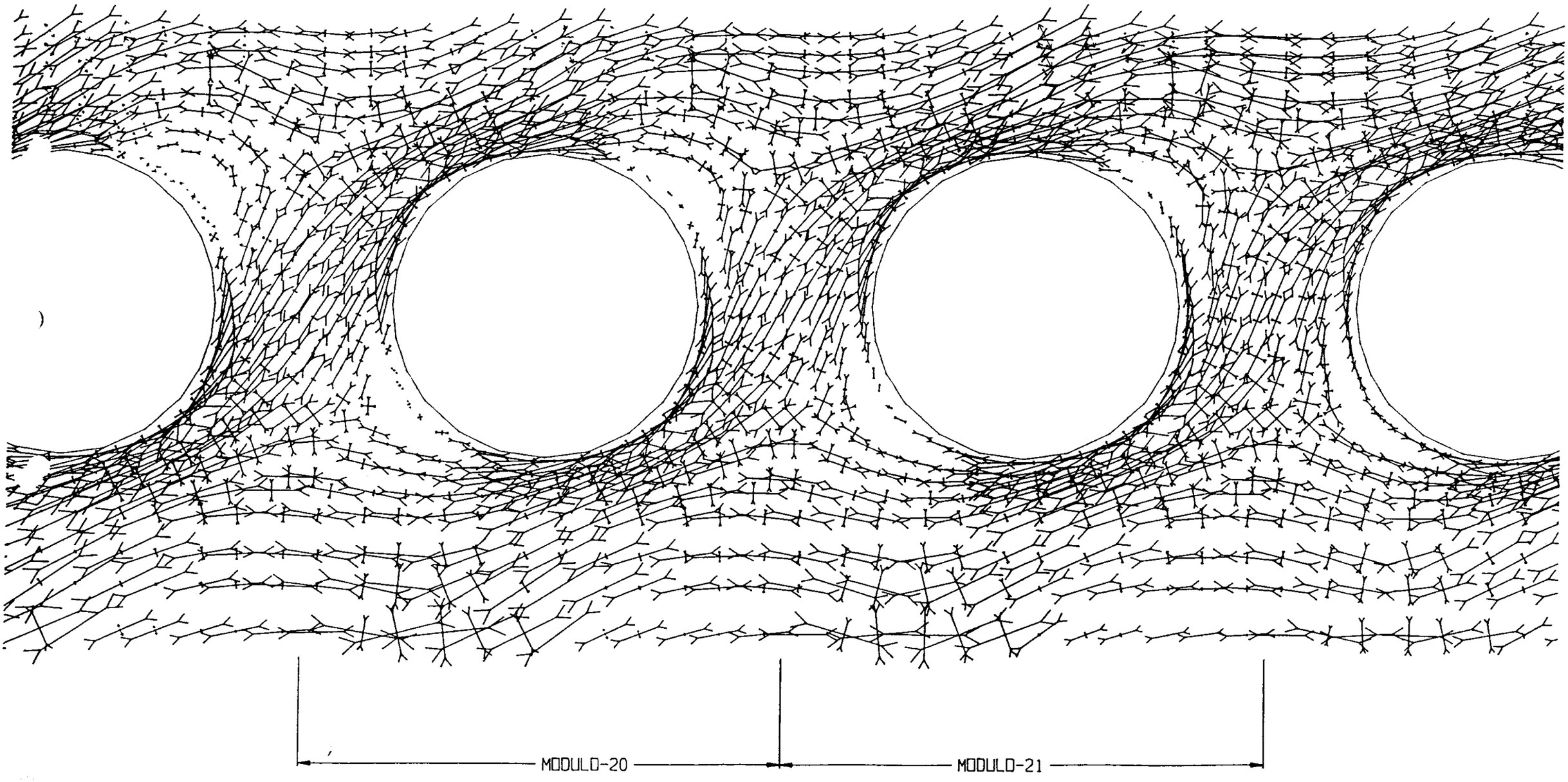


alma
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plano de almas (Tensiones en el plano medio)



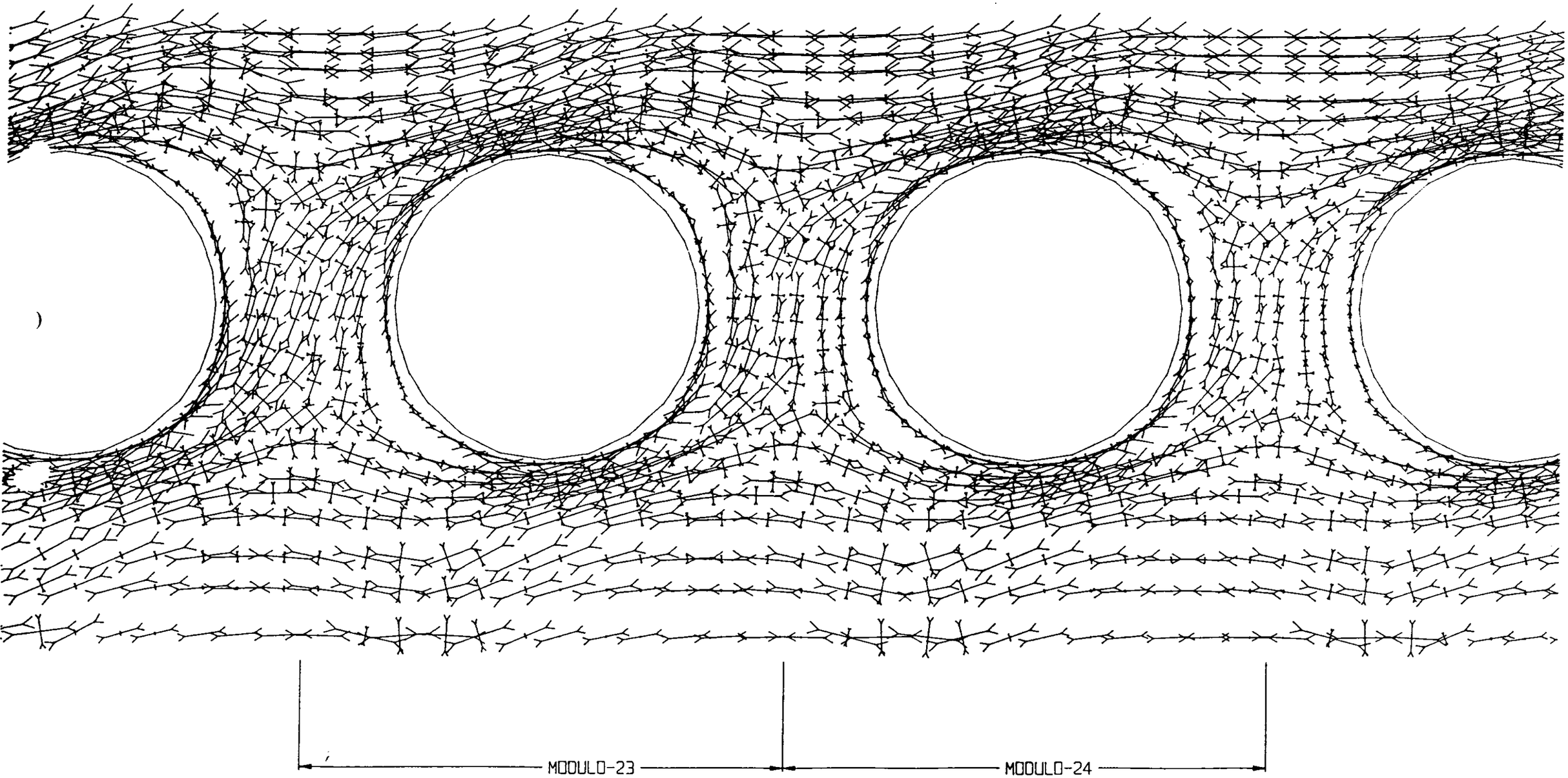
alma
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plano de almas (Tensiones en el plano medio)

<——> 2000.



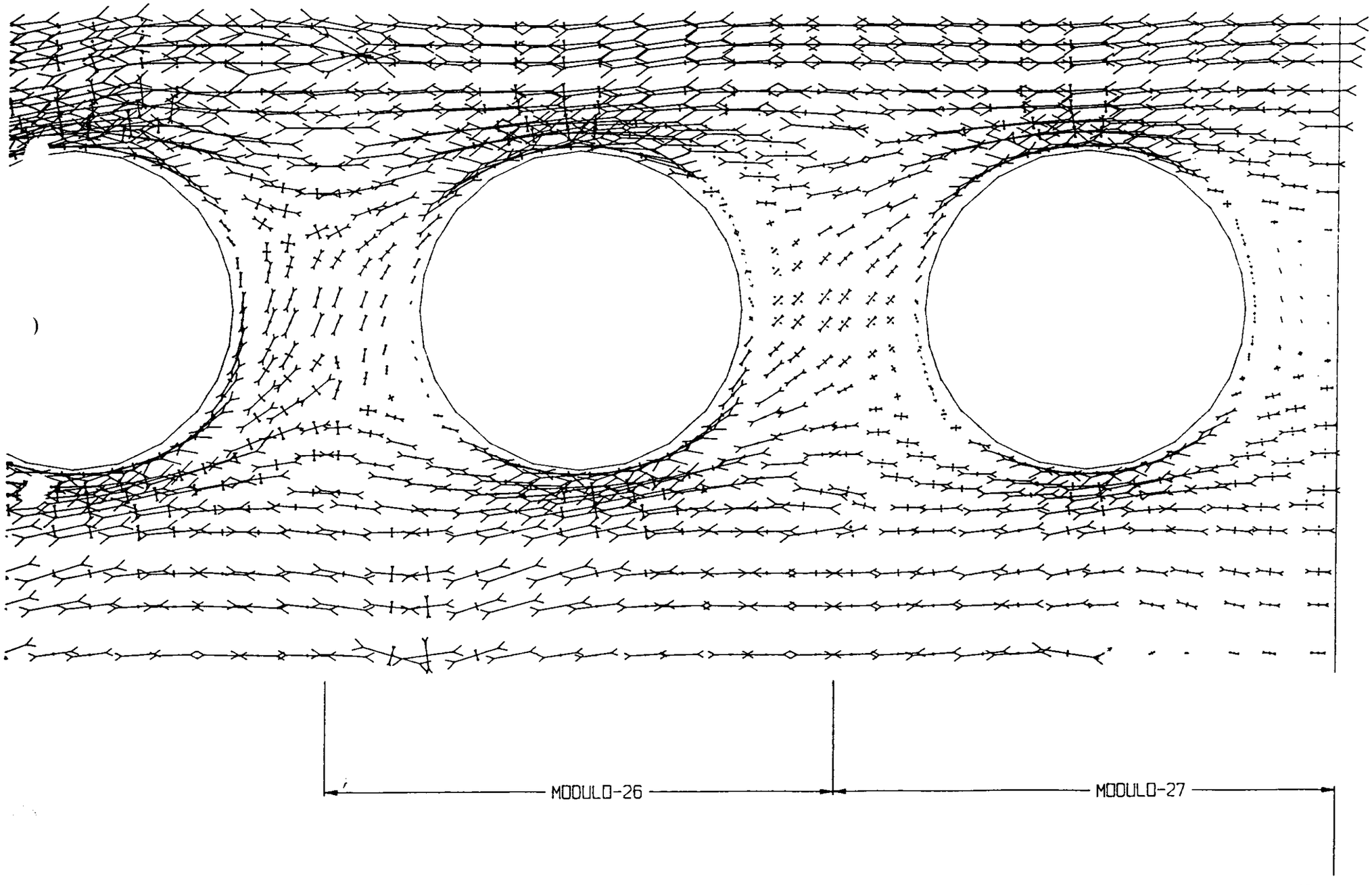
alma
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plano de almas (Tensiones en el plano medio)

⟷ 2000.



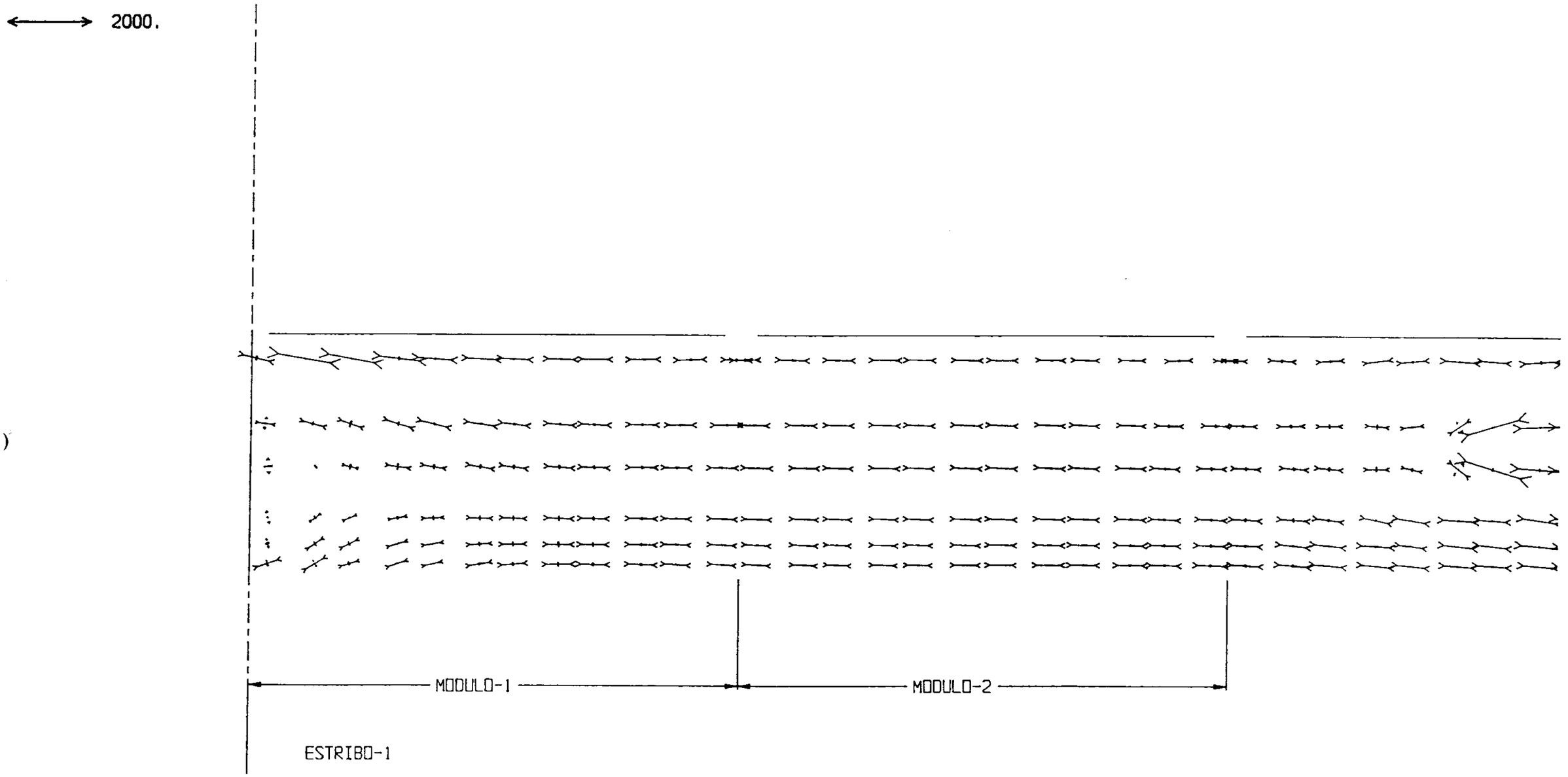
alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de almas (Tensiones en el plano medio)

← > 2300.



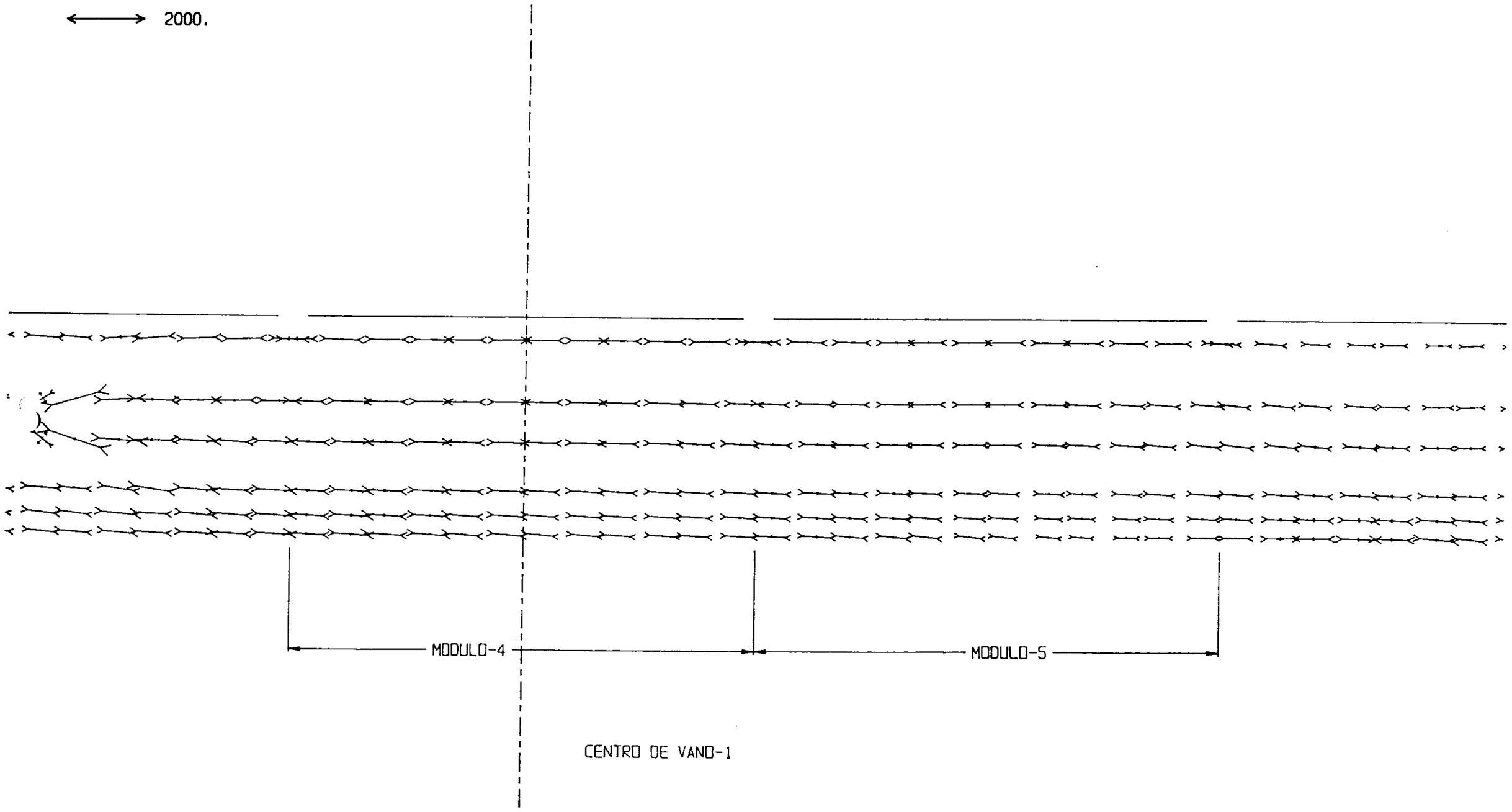
LOSA SUPERIOR

alma
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planos de losa superior (Tensiones en el plano medio)



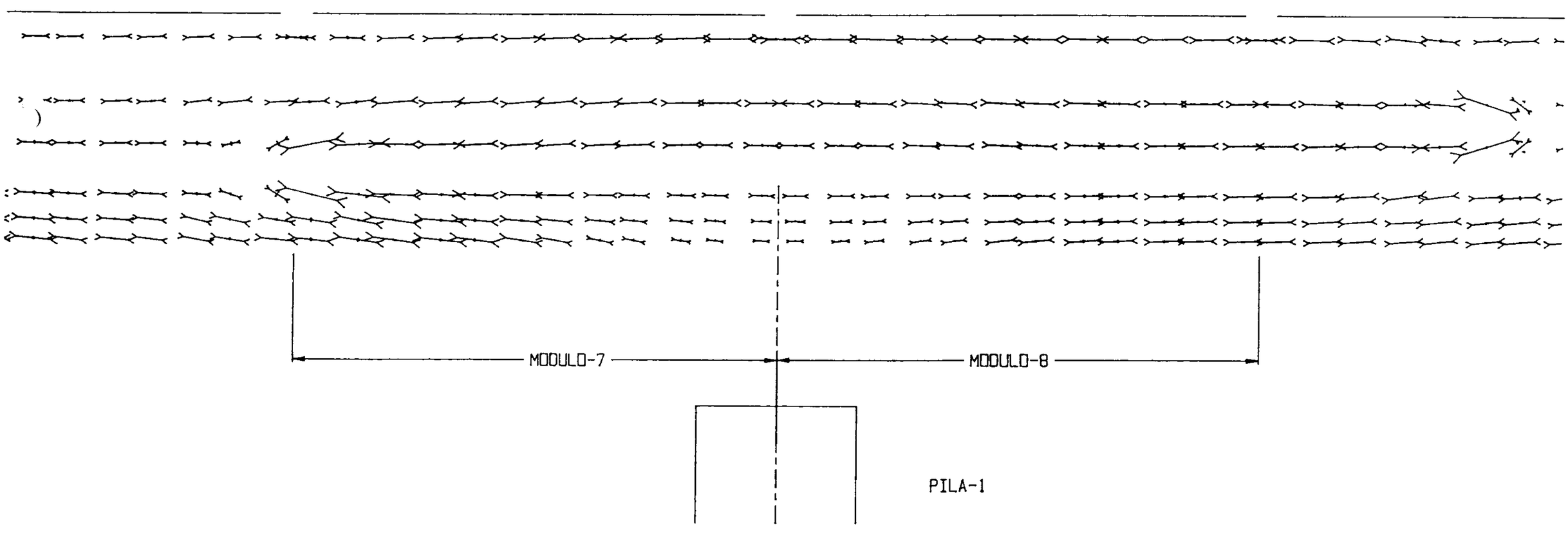
alma
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planos de losa superior (Tensiones en el plano medio)

⟷ 2000.



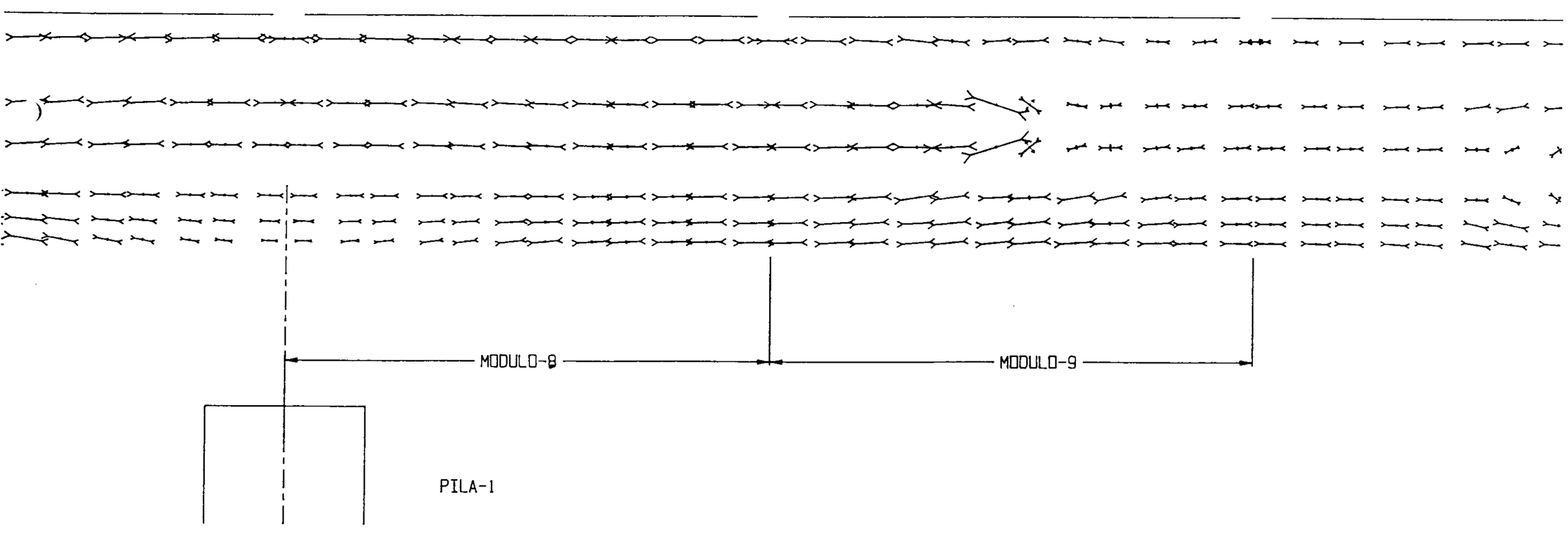
alma
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planos de losa superior (Tensiones en el plano medio)

⟷ 2000.



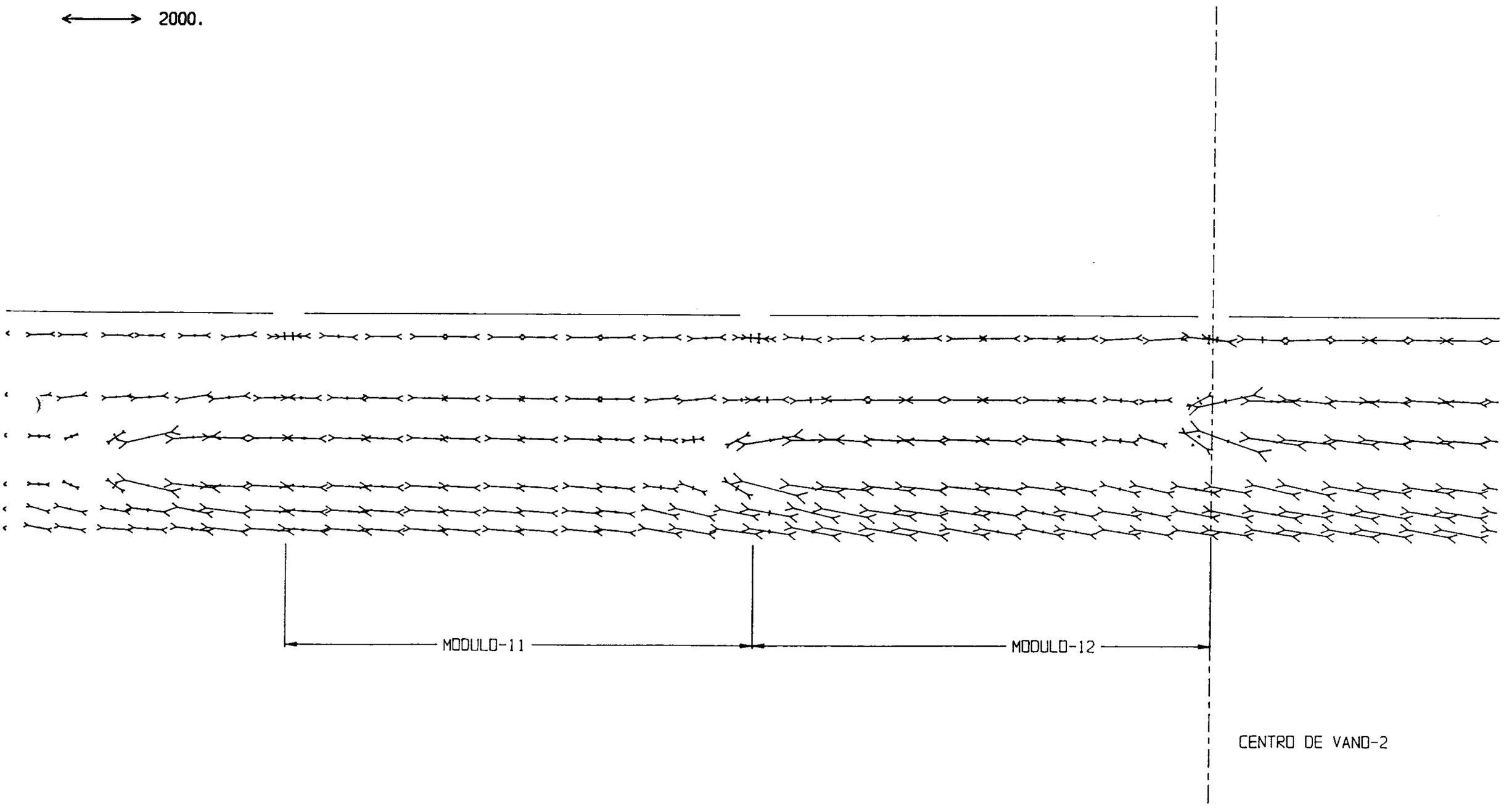
alma
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planos de losa superior (Tensiones en el plano medio)

⟷ 2000.



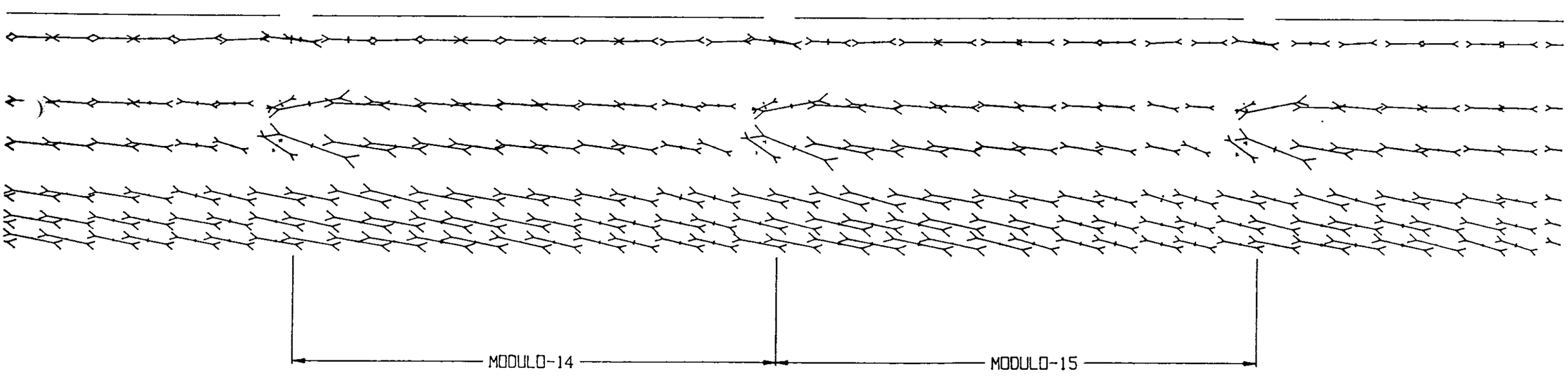
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planos de losa superior (Tensiones en el plano medio)

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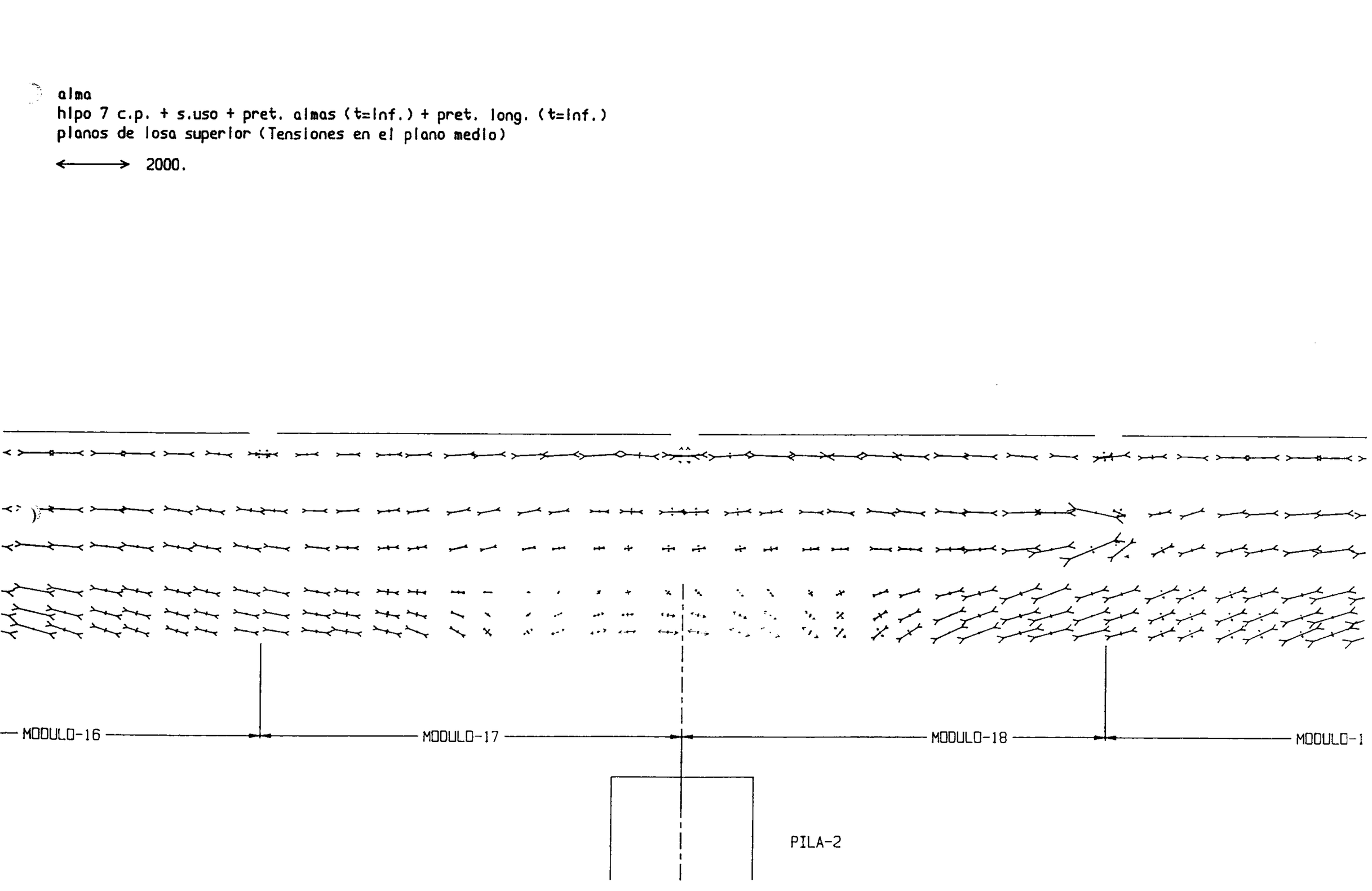


alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
planos de losa superior (Tensiones en el plano medio)

⟷ 2000.

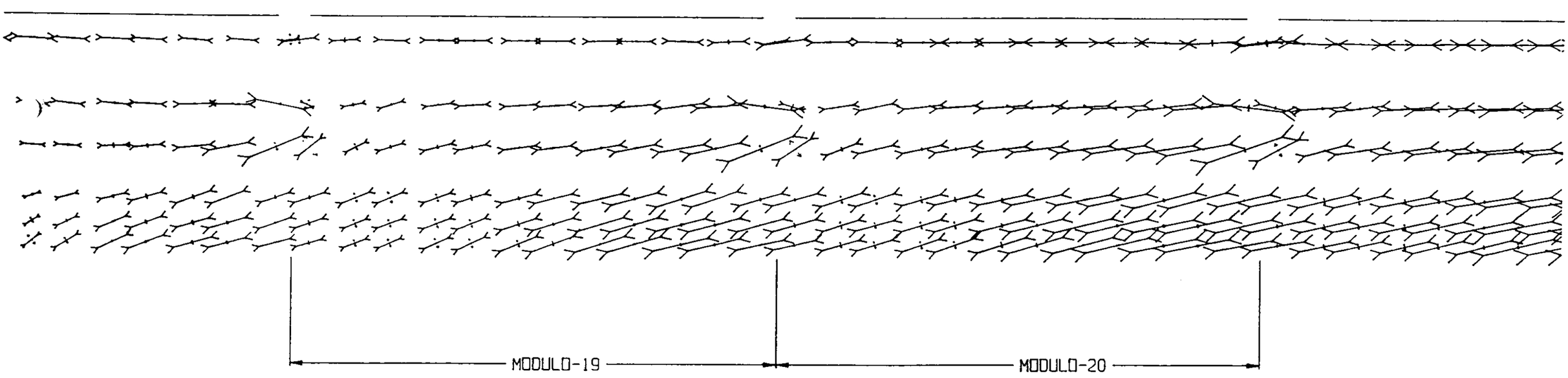


alma
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planos de losa superior (Tensiones en el plano medio)

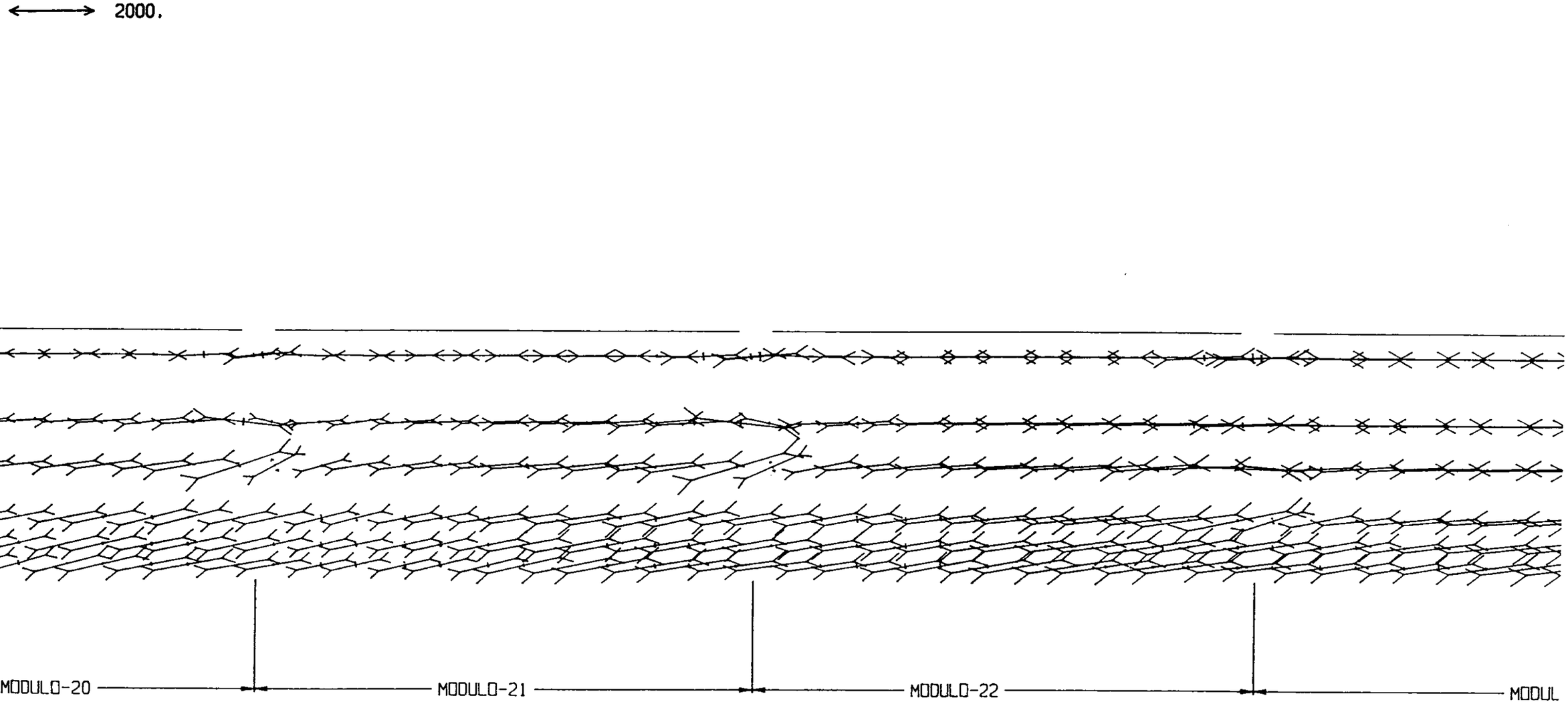


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planos de losa superior (Tensiones en el plano medio)

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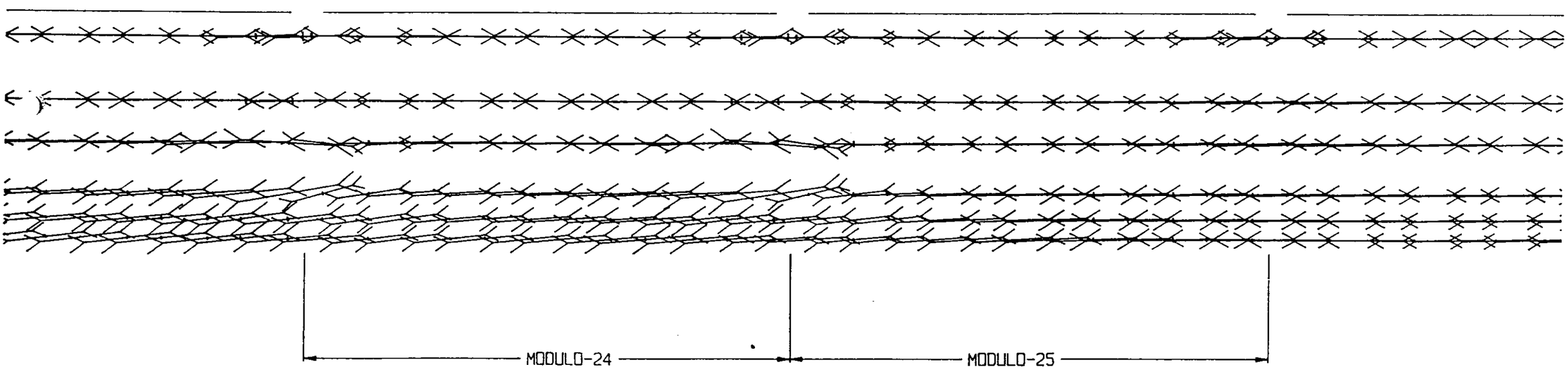


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planos de losa superior (Tensiones en el plano medio)



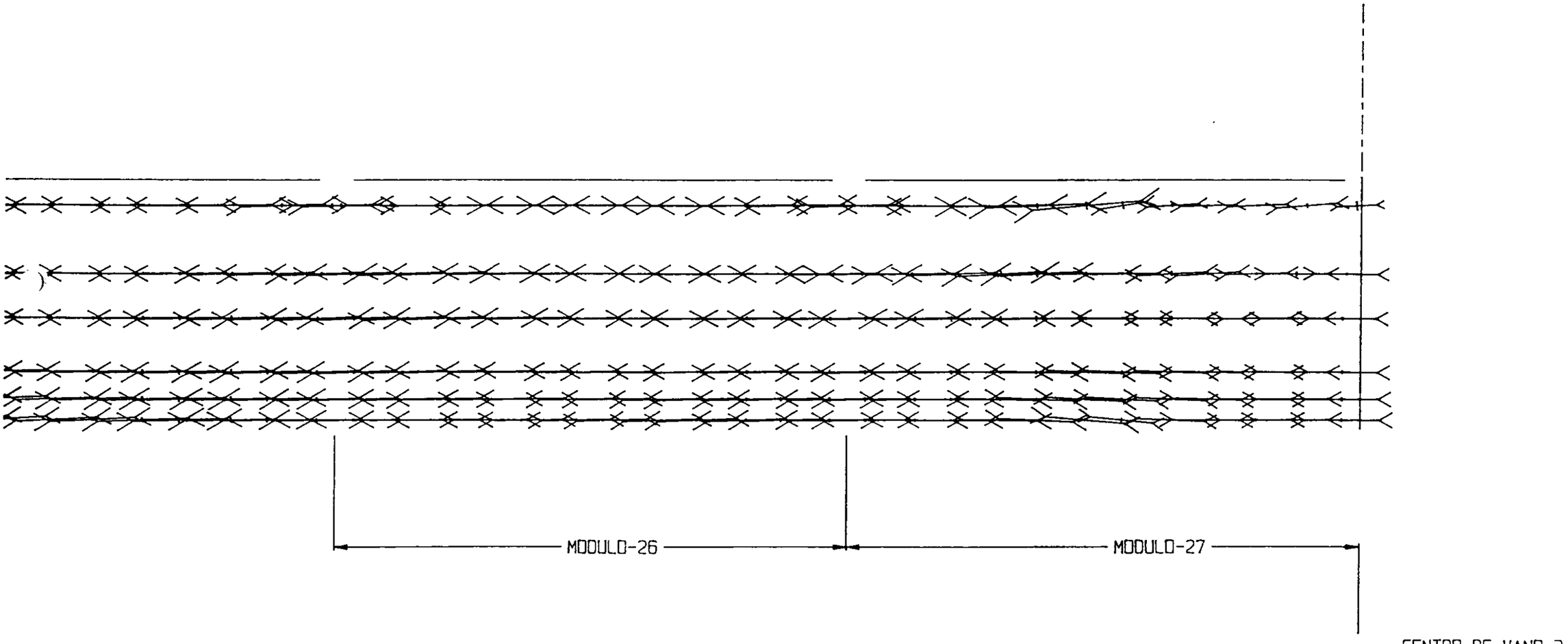
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planos de losa superior (Tensiones en el plano medio)

⟷ 2000.



alma
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planos de losa superior (Tensiones en el plano medio)

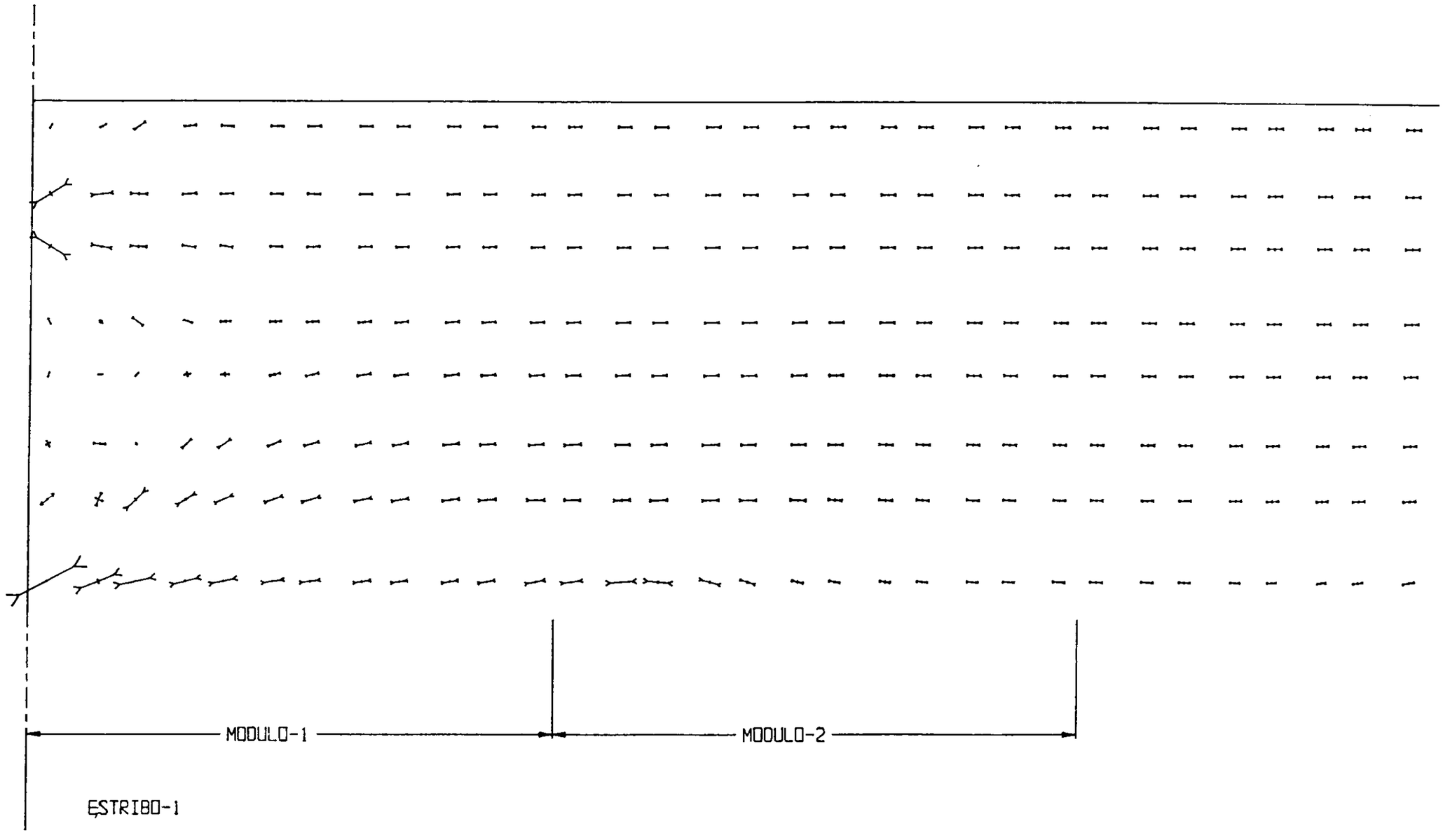
⟷ 2000.



LOSA INFERIOR

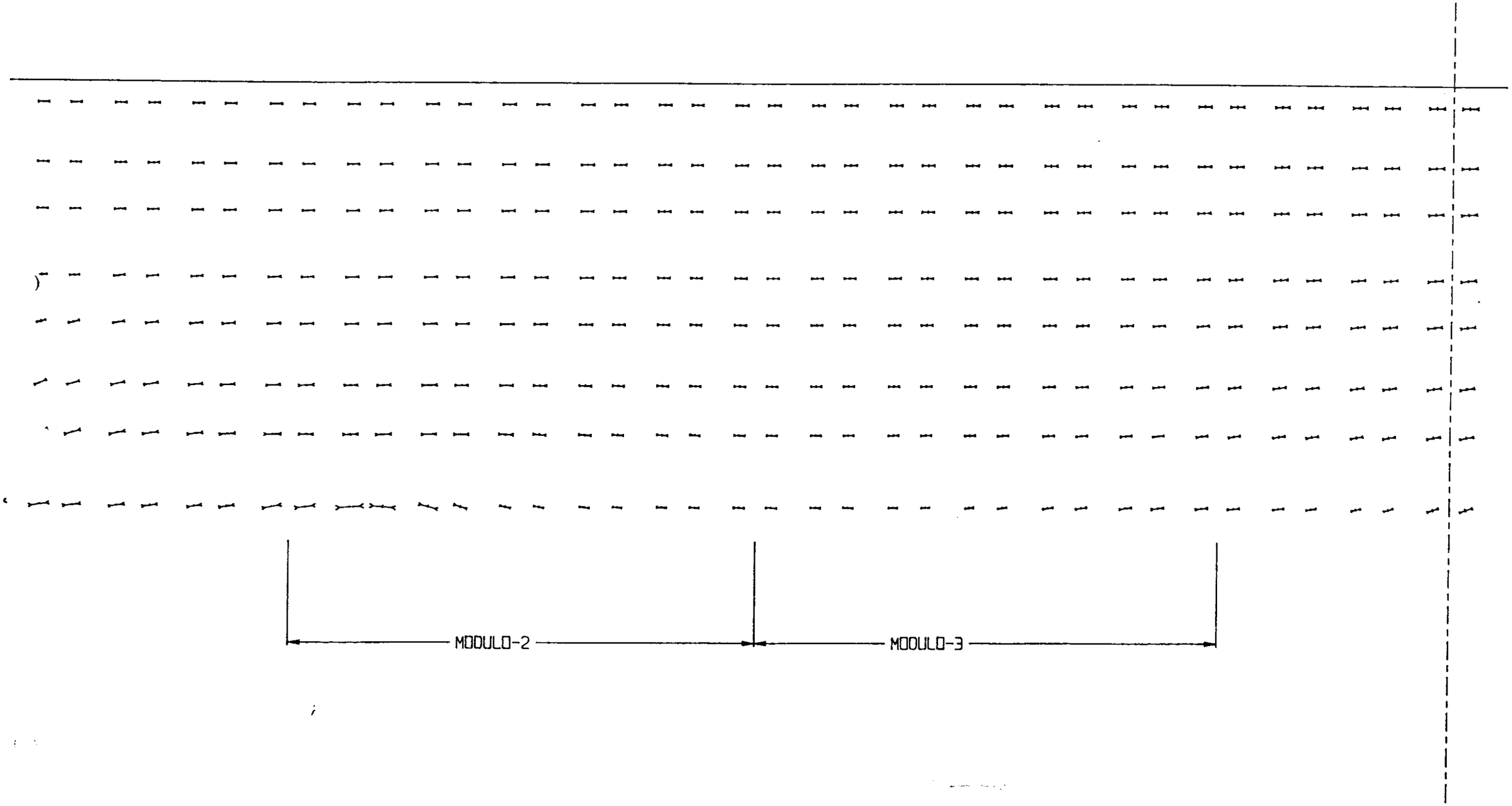
)lma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de losa inferior (Tensiones en el plano medio)

<---> 2000.



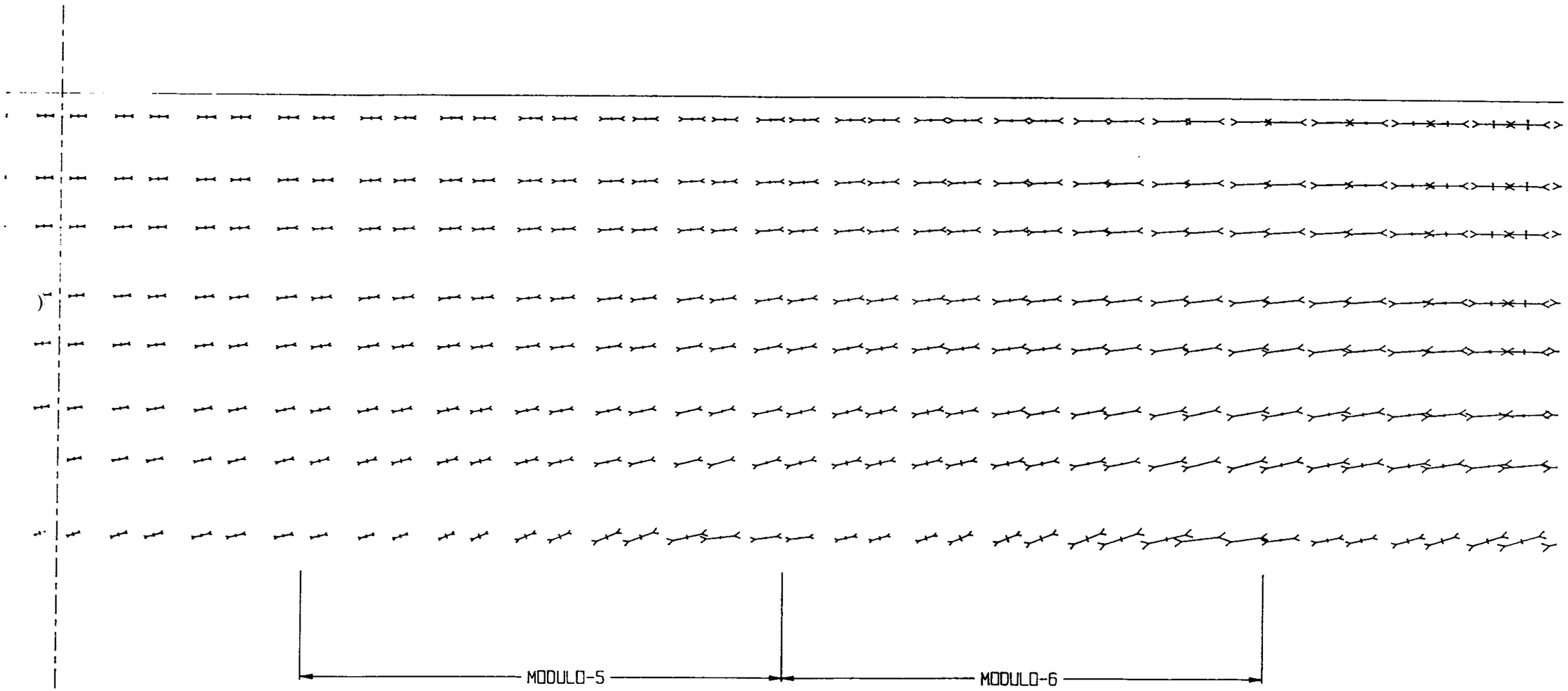
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plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



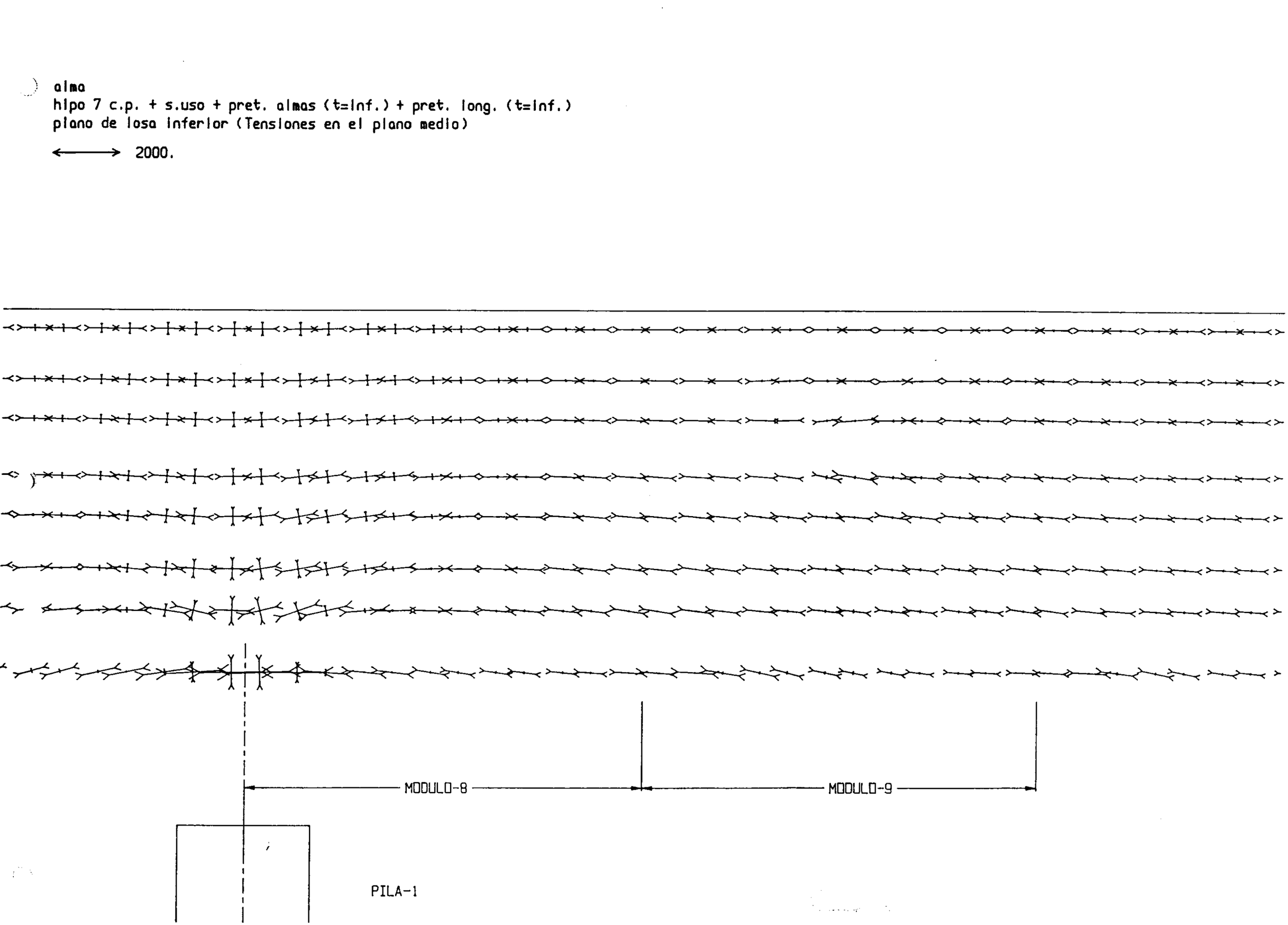
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plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



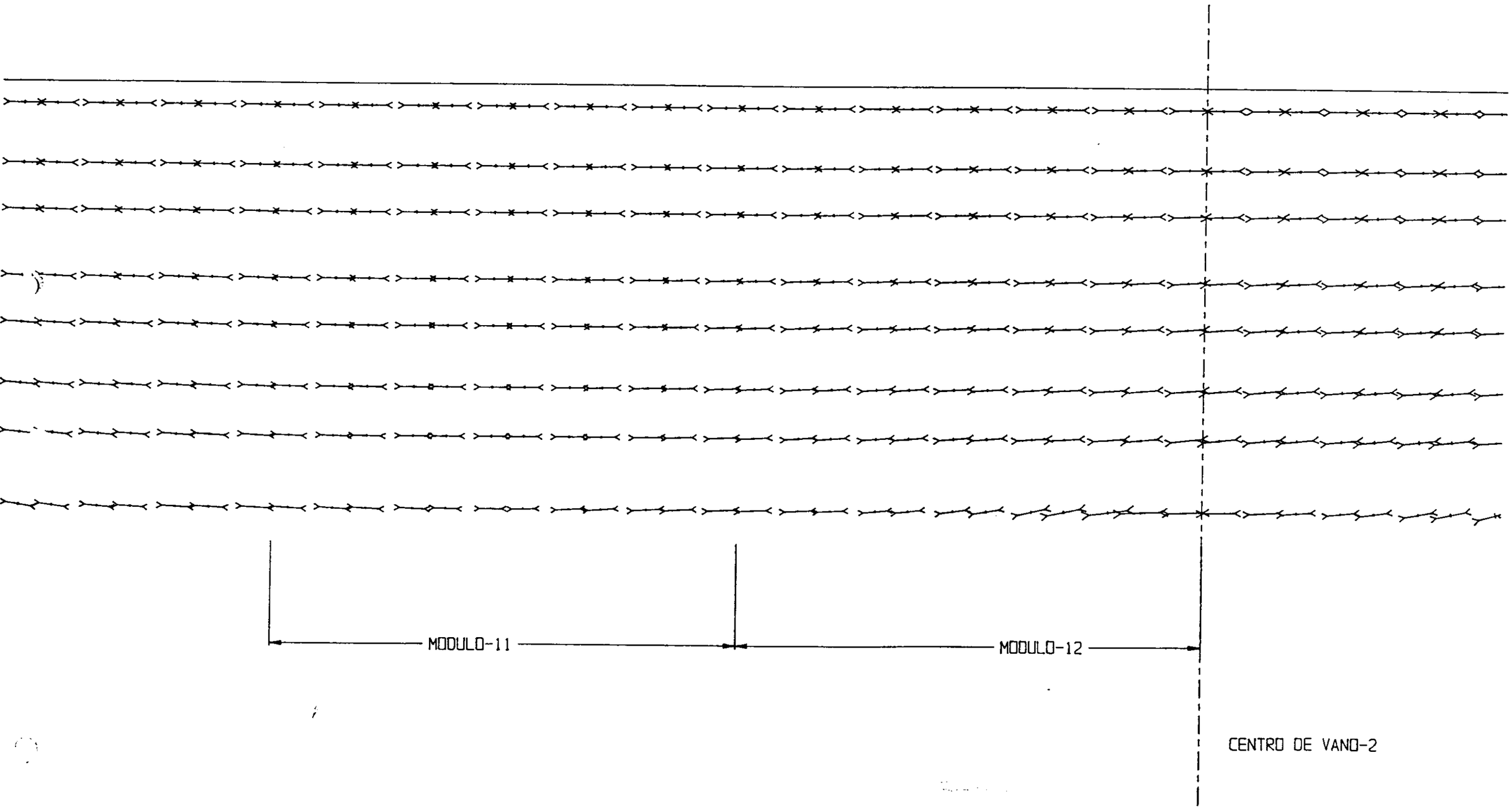
CENTRO DE VANO-1

alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de losa inferior (Tensiones en el plano medio)



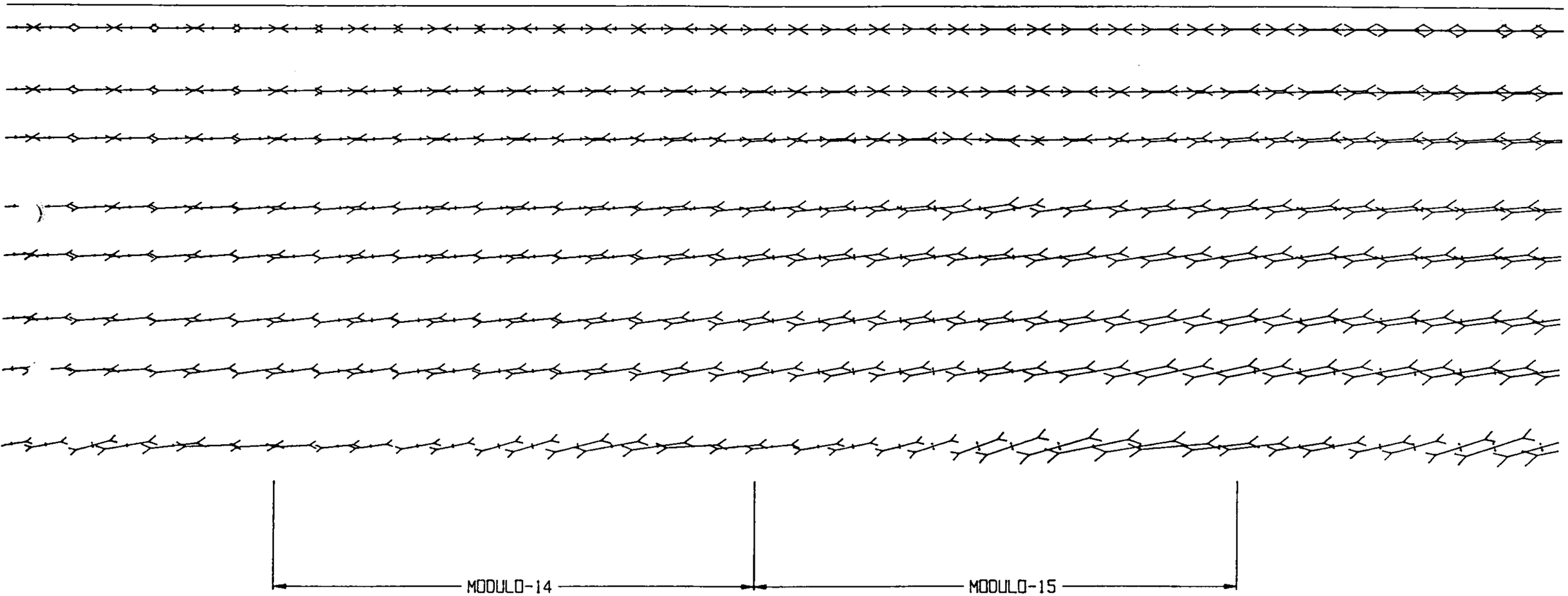
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plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



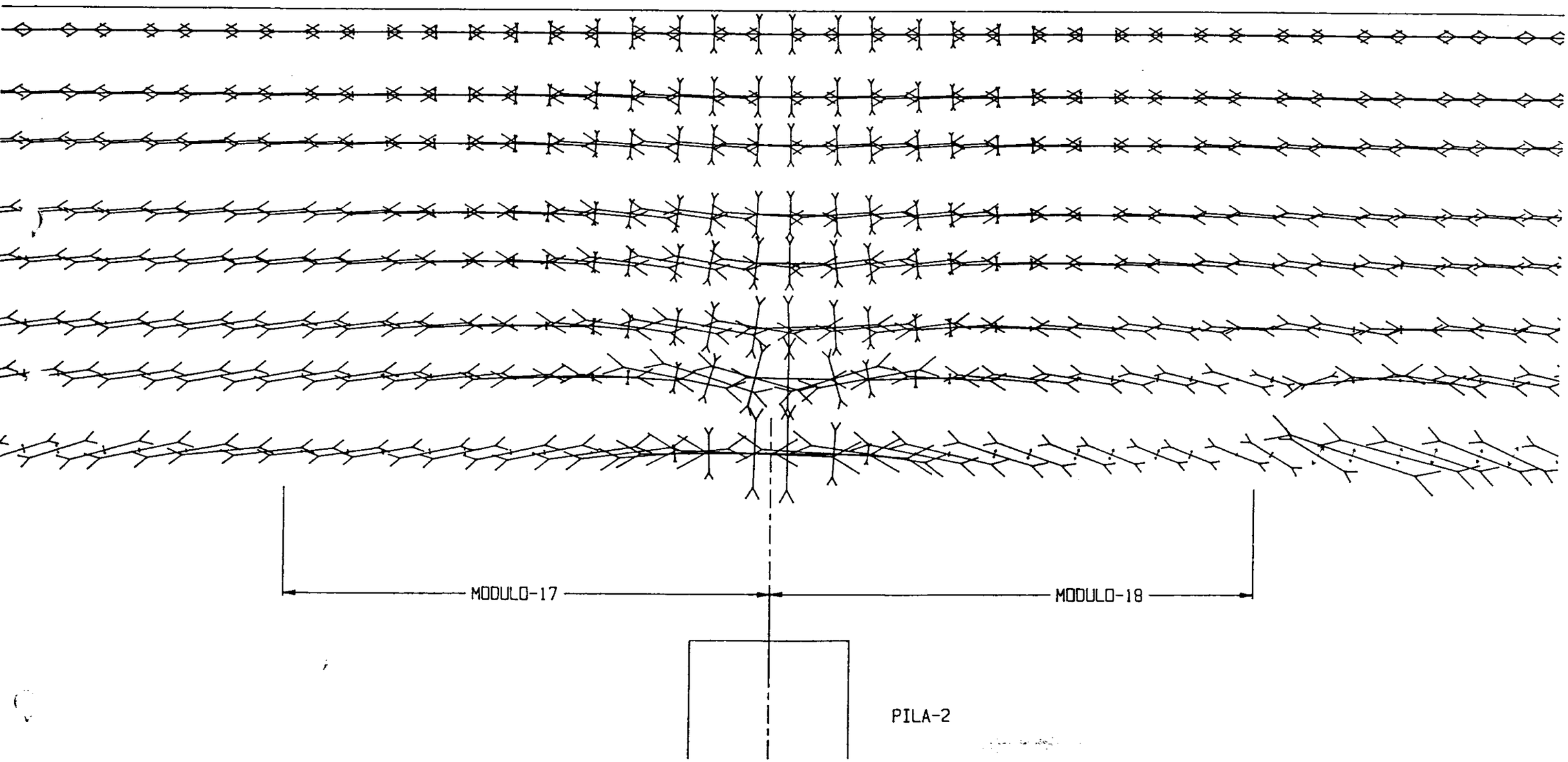
Alma
Hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



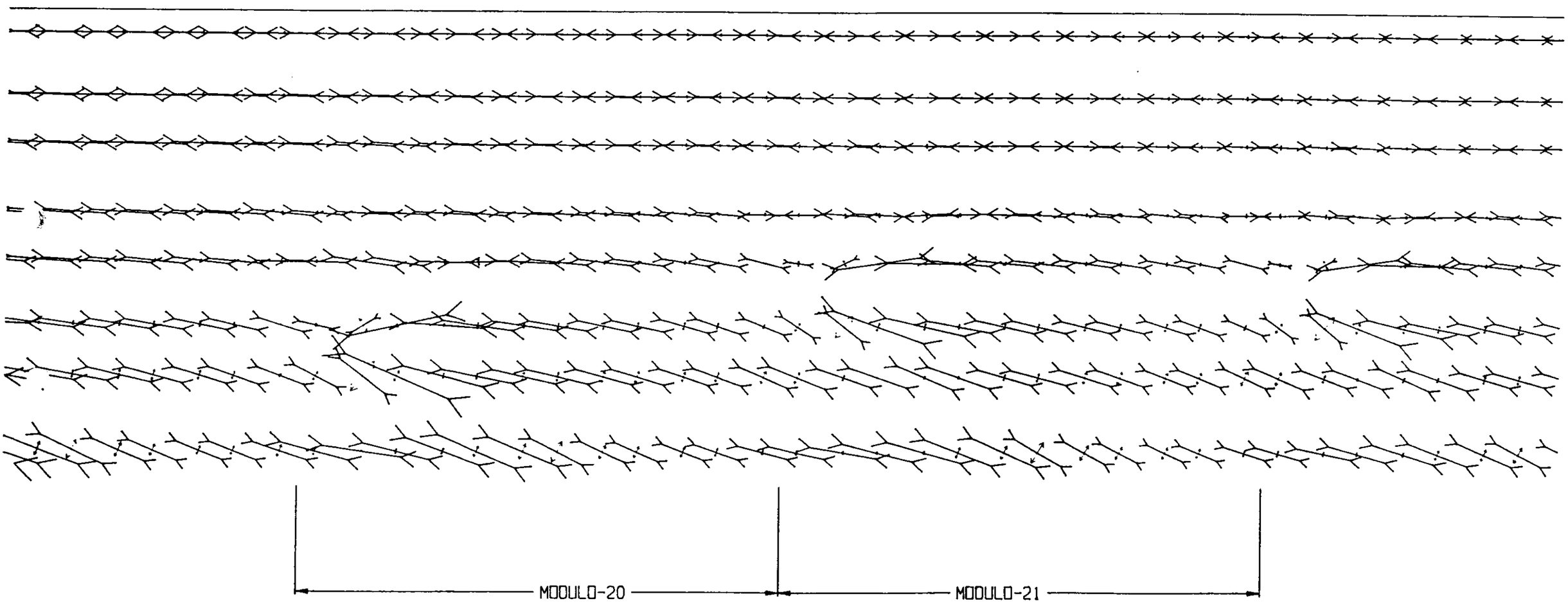
alma
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plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.

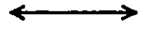


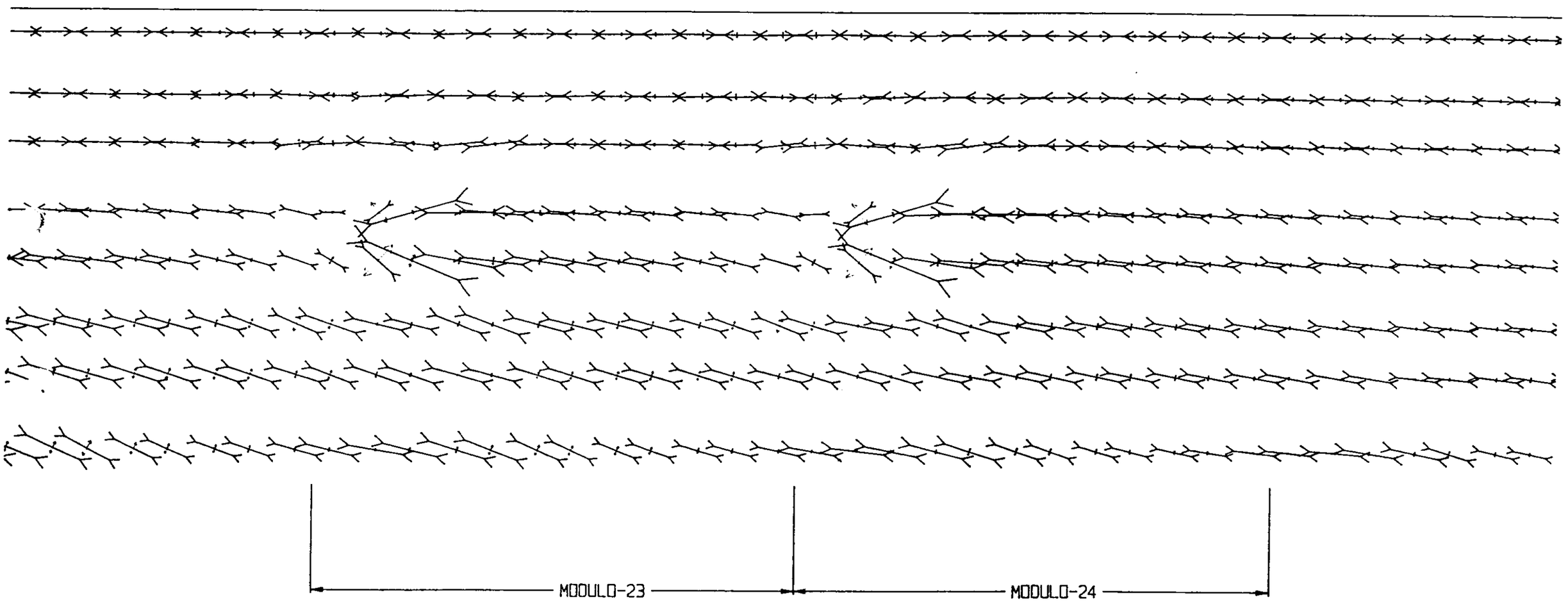
alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



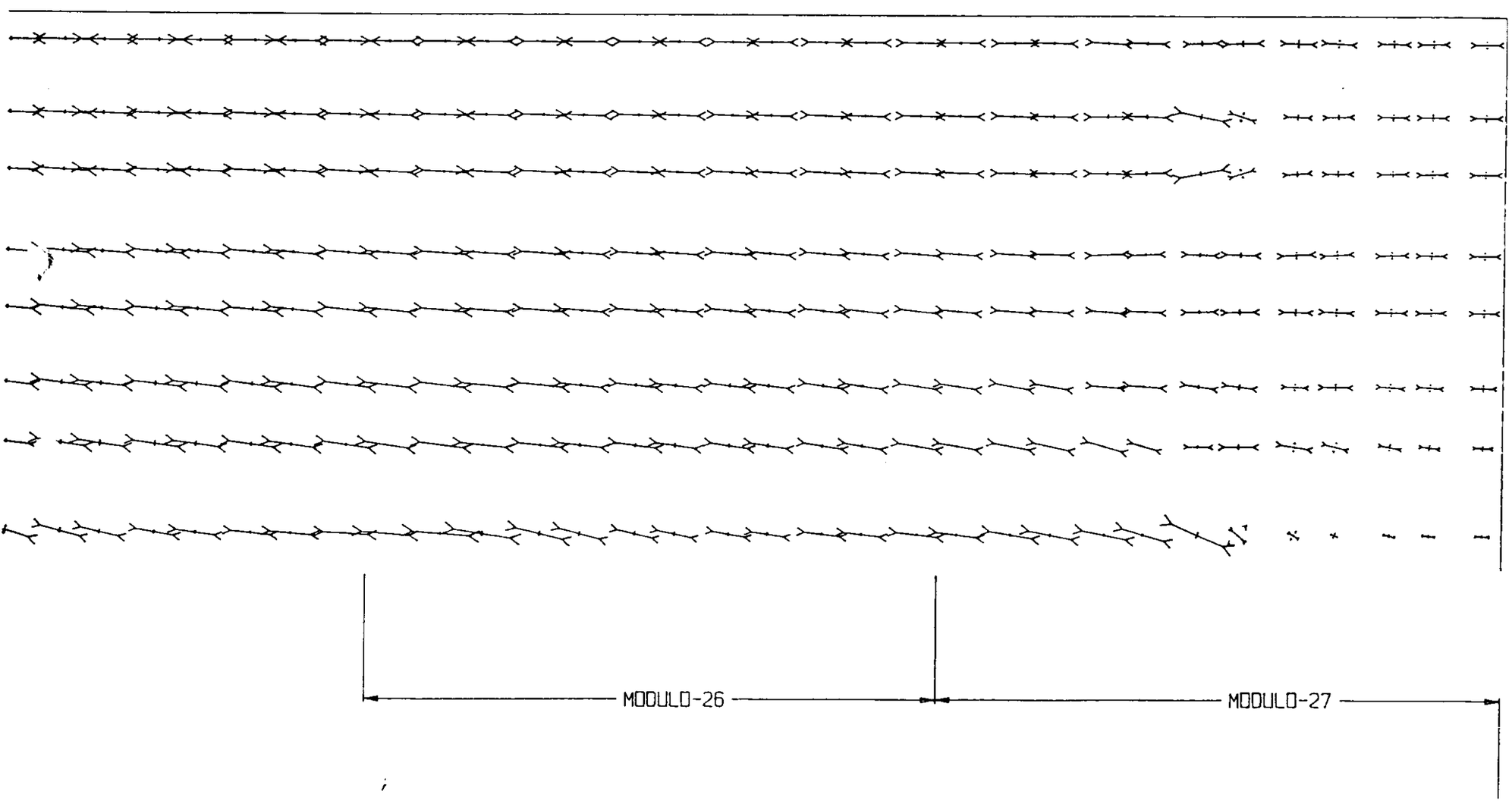
alma
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plano de losa inferior (Tensiones en el plano medio)





alma
hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)
plano de losa inferior (Tensiones en el plano medio)

⟷ 2000.



HIPOTESIS

CARGA PERMANENTE+1/2 S.C.+PRET. TOTAL (T= iNF.)

LISTADO DE TENSIONES

hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	NXY
1	1	0.17	0.12	7.11	0.16	1.75	-9.40	0.20	-402.33	-119.77	328.05
1	2	0.62	0.12	0.27	2.15	0.91	-9.65	-0.40	-341.34	-169.20	253.22
1	3	0.53	0.45	0.62	2.64	2.97	-10.07	-1.91	-310.84	-89.61	217.11
1	4	0.14	0.44	7.16	0.50	3.84	-11.10	1.29	-390.57	-113.69	310.42
2	1	0.12	0.12	-4.05	2.89	-0.03	-7.99	1.67	-408.59	-111.06	298.54
2	2	0.58	0.13	-8.25	2.87	-1.29	-7.76	0.87	-365.17	-180.19	128.52
2	3	0.37	0.50	-8.05	5.17	-0.40	-7.17	1.46	-318.11	-29.01	138.08
2	4	-0.02	0.47	-3.68	3.99	1.72	-9.64	-0.02	-414.92	21.45	295.85
3	1	0.08	0.14	-10.26	2.60	-2.21	-4.65	4.98	-320.23	-237.14	23.59
3	2	0.53	0.16	-12.30	2.23	-3.04	-4.97	8.56	-359.39	-321.85	-87.28
3	3	0.19	0.59	-11.81	4.74	-3.21	-5.69	0.62	-245.29	-155.45	-39.54
3	4	-0.18	0.53	-9.82	5.42	-1.71	-8.40	1.54	-274.16	-60.21	56.20
4	1	0.13	0.12	7.60	0.29	5.78	-11.23	1.96	-388.78	-103.54	261.59
4	2	0.47	0.12	1.25	2.52	5.33	-9.74	-2.34	-269.84	44.11	145.44
4	3	0.39	0.45	2.45	1.49	4.01	-42.22	-6.44	-261.89	25.03	69.21
4	4	0.12	0.44	8.66	0.27	3.85	-45.09	1.51	-442.64	-42.09	85.65
5	1	0.10	0.13	-2.42	3.27	5.24	-7.38	-1.55	-266.67	103.61	265.58
5	2	0.43	0.14	-7.33	5.67	4.48	-1.68	-3.74	-180.45	33.41	204.11
5	3	0.27	0.53	-6.13	2.91	3.05	-38.40	-11.26	60.96	70.10	131.73
5	4	0.00	0.48	-1.04	1.48	3.72	-41.31	-6.70	-108.07	30.62	93.81
6	1	0.06	0.16	-9.82	6.53	4.59	3.01	0.00	-167.75	11.31	149.02
6	2	0.39	0.18	-12.00	8.71	3.29	5.63	5.22	-157.78	2.29	36.31
6	3	0.14	0.67	-11.05	5.96	2.41	-30.75	-17.56	223.88	118.46	160.96
6	4	-0.12	0.59	-8.33	3.99	3.32	-37.17	-11.91	171.90	108.17	142.35
7	1	0.16	0.12	-12.40	1.39	1.97	-8.62	0.92	-433.24	-135.89	-363.56
7	2	0.61	0.12	-18.00	3.14	2.01	-6.60	0.80	-396.73	-248.91	-292.07
7	3	0.52	0.45	-17.53	3.29	3.39	-7.67	-2.06	-493.66	-269.85	-332.40
7	4	0.14	0.44	-12.03	1.34	3.92	-10.50	0.19	-473.82	-152.39	-343.33
8	1	0.12	0.12	-20.76	3.54	1.89	-5.43	2.02	-433.65	-403.01	-310.52
8	2	0.57	0.13	-22.62	2.82	1.97	-3.98	0.71	-328.89	-443.62	-151.64
8	3	0.36	0.50	-22.51	4.55	0.99	-5.77	2.54	-428.38	-480.43	-274.69
8	4	-0.01	0.47	-20.23	4.28	2.49	-7.82	0.29	-479.21	-369.67	-324.44
9	1	0.08	0.14	-23.39	2.17	2.08	-3.44	2.35	-272.30	-536.40	-63.82
9	2	0.52	0.16	-23.88	0.90	2.04	-3.53	3.54	-198.54	-639.23	17.50
9	3	0.19	0.58	-23.40	1.74	0.22	-9.23	-0.94	-312.13	-669.89	-133.10
9	4	-0.18	0.53	-22.72	3.86	0.57	-9.23	1.75	-395.19	-591.34	-218.10
10	1	0.13	0.12	-11.46	0.28	6.62	-9.68	-1.51	-522.15	-115.37	-274.02
10	2	0.46	0.12	-16.76	2.64	6.40	-6.01	-4.36	-597.46	-213.78	-316.73
10	3	0.39	0.45	-16.96	1.04	3.14	-47.99	-9.07	-786.17	-98.65	-204.77
10	4	0.12	0.44	-12.07	-0.15	4.18	-46.98	-1.37	-604.19	-22.39	-104.22
11	1	0.10	0.13	-18.99	3.08	2.63	-1.20	-2.89	-655.42	-246.97	-307.78
11	2	0.43	0.14	-21.67	5.02	6.89	3.46	-2.68	-656.01	-413.10	-353.79
11	3	0.27	0.53	-21.28	2.39	1.93	-47.02	-13.43	-975.82	-232.26	-361.67
11	4	0.00	0.48	-18.93	1.27	3.52	-49.61	-9.48	-913.09	-119.02	-232.58
12	1	0.06	0.16	-21.90	4.64	2.76	9.89	1.46	-631.63	-449.93	-326.10
12	2	0.39	0.18	-22.14	5.36	6.44	9.06	8.68	-553.69	-601.97	-310.31
12	3	0.14	0.66	-21.42	4.23	1.11	-37.06	-17.15	-1022.89	-443.81	-533.38
12	4	-0.11	0.59	-21.59	3.32	2.72	-45.32	-13.19	-1058.85	-278.78	-403.90
13	1	0.16	0.12	-9.42	-24.52	-1.46	-1.56	5.39	-697.10	-186.67	-12.35

13	2	0.90	0.10	1.57	-23.48	-0.32	4.08	2.57	-775.20	-242.11	86.16
13	3	1.21	0.37	2.87	-22.23	0.95	1.46	5.00	-860.86	-350.02	221.37
13	4	0.76	0.46	2.78	-21.87	-0.80	0.68	5.62	-749.01	-303.65	143.02
14	1	0.30	0.09	2.26	-22.03	0.50	2.53	7.20	-851.63	-294.65	179.83
14	2	0.85	0.07	1.47	-18.65	1.04	2.87	6.87	-955.04	-345.91	302.41
14	3	1.01	0.27	0.65	-15.65	2.82	3.57	10.03	-1118.12	-403.95	398.85
14	4	0.54	0.32	3.27	-20.27	1.78	3.93	4.21	-965.70	-375.80	295.16
15	1	0.25	0.07	-1.32	-15.01	0.23	1.46	11.58	-1034.82	-345.13	390.58
15	2	0.80	0.06	-4.14	-11.82	-4.05	-6.48	12.64	-1023.38	-199.63	462.50
15	3	0.83	0.22	-5.46	-7.44	-3.82	-2.33	13.40	-1144.60	-188.60	422.19
15	4	0.35	0.24	-2.42	-10.24	1.32	1.81	13.30	-1191.89	-339.81	424.50
16	1	0.27	0.16	2.11	-21.95	9.19	10.67	-0.01	-904.38	-308.31	149.11
16	2	0.66	0.13	1.38	-17.93	10.35	10.84	5.92	-1095.74	-305.63	193.86
16	3	0.89	0.47	-2.60	-9.56	8.26	-36.62	18.27	-1511.57	-299.27	505.29
16	4	0.57	0.59	-0.14	-14.48	9.26	-30.64	23.45	-1163.74	-410.38	540.55
17	1	0.24	0.10	0.72	-16.09	8.70	7.79	12.89	-1213.71	-345.46	320.94
17	2	0.65	0.08	-2.46	-9.24	6.12	-1.32	11.83	-1407.18	-278.80	332.31
17	3	0.78	0.30	-4.15	-1.97	3.49	-23.62	10.92	-1861.23	-172.76	400.98
17	4	0.44	0.37	-2.25	-6.54	6.23	-33.70	16.64	-1611.95	-311.03	578.04
18	1	0.20	0.07	-3.80	-6.24	2.00	-0.49	15.85	-1422.68	-277.33	391.01
18	2	0.62	0.06	-6.41	-4.48	-4.03	1.14	12.08	-1299.87	-112.89	296.20
18	3	0.64	0.23	-6.66	-0.70	-2.40	-21.68	4.58	-1504.83	-10.85	114.42
18	4	0.29	0.25	-4.32	-2.03	1.74	-7.76	9.42	-1804.45	-158.65	373.19
19	1	0.20	0.06	-4.67	-13.44	-9.05	-2.09	11.97	-900.07	-18.34	479.31
19	2	0.75	0.07	-4.81	-19.67	-12.69	-7.89	6.13	-727.59	-189.36	422.29
19	3	0.65	0.24	-5.18	-15.78	-14.00	-3.13	6.93	-648.97	160.47	359.94
19	4	0.17	0.22	-6.51	-9.57	-9.43	0.77	12.03	-917.20	-24.32	398.55
20	1	0.15	0.07	-4.55	-24.16	-13.14	-14.25	2.80	-622.63	109.39	335.16
20	2	0.70	0.09	-6.68	-25.52	-11.43	-3.77	12.60	-423.61	-262.44	231.88
20	3	0.46	0.32	-3.87	-25.32	-12.52	-1.81	2.16	-313.30	-16.11	182.86
20	4	-0.01	0.27	-4.47	-22.22	-15.05	-6.66	6.87	-468.78	235.13	329.41
21	1	0.10	0.10	-10.28	-25.15	-8.85	-7.72	5.11	-284.44	-556.61	173.23
21	2	0.64	0.12	-12.20	-24.56	-3.41	-2.57	12.17	-201.33	-869.09	58.19
21	3	0.24	0.46	-6.57	-23.53	-6.34	2.09	13.61	-17.92	-627.33	96.48
21	4	-0.21	0.37	-5.74	-25.66	-10.47	-1.03	8.45	-146.88	-306.53	146.07
22	1	0.16	0.06	-8.93	-4.66	-8.46	6.91	11.86	-921.82	-82.31	344.12
22	2	0.58	0.07	-8.51	-10.91	-14.62	3.65	12.65	-510.44	133.63	319.60
22	3	0.49	0.25	-11.62	-4.49	-8.32	57.75	14.46	-358.83	51.66	63.33
22	4	0.14	0.23	-8.88	-0.52	-3.14	38.33	6.32	-1096.47	-68.53	114.91
23	1	0.12	0.08	-10.71	-13.05	-18.35	-0.76	7.76	-227.79	118.15	371.54
23	2	0.53	0.10	-8.91	-20.13	-19.36	-9.86	8.45	-60.90	95.00	255.03
23	3	0.33	0.37	-13.70	-10.95	-14.41	57.68	20.60	412.49	138.34	263.39
23	4	-0.01	0.30	-14.72	-5.04	-11.01	61.90	15.87	47.14	89.75	192.47
24	1	0.07	0.13	-9.87	-19.08	-18.24	-8.34	4.88	-5.59	-115.24	103.27
24	2	0.46	0.16	-8.44	-21.68	-14.33	-6.72	0.41	92.39	-383.24	-58.27
24	3	0.16	0.59	-9.98	-17.04	-15.10	39.70	25.37	463.94	25.03	167.51
24	4	-0.16	0.47	-15.04	-12.81	-15.43	52.12	19.56	546.95	129.49	235.00
25	1	0.29	0.16	-23.29	-10.24	0.93	12.68	4.45	-887.52	-87.95	-23.82
25	2	0.74	0.14	-22.58	-5.06	0.30	10.08	-0.65	-835.41	107.70	-26.11
25	3	1.00	0.53	-22.75	-1.93	3.20	15.49	-2.41	-702.69	209.91	-73.79
25	4	0.63	0.58	-24.16	-6.12	5.09	14.41	-5.56	-717.07	62.88	-53.44
26	1	0.25	0.13	-21.46	-1.99	-0.11	11.25	-2.73	-803.60	178.77	-50.78
26	2	0.69	0.12	-17.47	0.71	-0.51	13.72	0.26	-761.96	160.41	-86.39
26	3	0.83	0.47	-16.70	1.71	-0.58	17.22	-2.11	-693.39	169.07	-135.97
26	4	0.45	0.50	-21.28	0.25	1.68	13.25	0.29	-721.88	219.59	-89.87
27	1	0.20	0.12	-12.43	1.57	-0.97	15.89	-0.55	-721.16	80.60	-114.94
27	2	0.65	0.12	-3.42	1.32	-1.26	17.56	0.12	-664.06	-69.37	-131.50
27	3	0.68	0.44	-7.07	1.36	-2.76	19.78	0.61	-673.58	-72.00	-152.40
27	4	0.29	0.45	-11.63	1.87	-1.94	16.97	-4.31	-678.73	60.82	-142.
28	1	0.22	0.18	-26.55	0.86	0.02	-0.44	5.95	-459.88	148.41	-216.56
28	2	0.54	0.16	-24.13	1.34	-2.83	1.29	-1.38	-500.50	194.76	-267.39
28	3	0.72	0.59	-25.28	1.27	0.86	49.07	-16.11	-42.65	153.05	-179.47
28	4	0.46	0.66	-26.13	1.15	4.07	41.31	-22.28	115.40	306.63	-236.70
29	1	0.19	0.14	-21.51	1.88	-2.81	8.02	-6.99	-518.14	204.97	-237.84
29	2	0.52	0.13	-15.94	1.48	-4.47	13.17	-3.75	-548.04	81.28	-232.14
29	3	0.62	0.48	-15.77	0.63	-1.91	52.14	-9.45	-460.74	14.21	-63.04
29	4	0.35	0.53	-21.94	0.84	0.69	49.70	-14.71	-226.29	98.10	-104.30
30	1	0.16	0.12	-11.00	1.67	-4.14	17.56	-5.09	-623.54	23.70	-158.75
30	2	0.50	0.12	-2.60	0.59	-4.62	20.31	-0.43	-675.73	-84.25	-162.71
30	3	0.51	0.44	-2.26	0.14	-3.05	51.25	-0.05	-797.11	-43.30	-63.32
30	4	0.23	0.45	-10.90	0.70	-2.22	50.96	-9.28	-618.18	2.55	-19.44
31	1	0.17	0.12	4.20	0.91	-1.25	18.00	-0.46	-628.06	-176.80	-133.41
31	2	0.62	0.12	13.43	0.94	-0.96	16.70	1.04	-546.22	-316.28	-120.14
31	3	0.53	0.45	12.53	0.38	-1.62	17.93	3.11	-625.56	-226.58	-185.64
31	4	0.14	0.44	3.92	0.56	-2.66	20.16	-1.58	-664.81	-162.21	-163.95
32	1	0.12	0.12	18.74	2.05	-0.58	15.39	-0.32	-467.27	-402.83	-99.73
32	2	0.58	0.13	23.95	4.91	-0.35	13.77	1.56	-352.56	-483.01	-71.62
32	3	0.37	0.50	22.53	2.93	1.33	14.98	1.28	-459.02	-477.15	-178.16
32	4	-0.02	0.47	17.61	1.04	-0.34	18.50	1.02	-564.93	-387.63	-197.22
33	1	0.08	0.14	26.96	2.09	-0.40	12.91	0.55	-275.07	-480.99	-94.22
33	2	0.53	0.16	30.95	10.19	-0.44	12.28	1.14	-199.43	-409.51	-24.33
33	3	0.19	0.59	27.84	9.17	2.33	17.32	2.03	-307.02	-507.66	-125.13
33	4	-0.18	0.53	24.92	5.37	2.05	18.31	0.59	-397.28	-528.30	-163.78
34	1	0.13	0.12	3.65	0.68	-4.43	20.39	-1.37	-238.27	-125.79	-137.09
34	2	0.47	0.12	12.04	-0.05	-3.51	18.52	3.41	-740.47	-223.44	-191.40
34	3	0.39	0.45	12.10	-0.19	-1.60	48.34	7.75	-960.13	-102.73	-178.43
34	4	0.12	0.44	3.48	0.16	-2.93	50.80	-0.97	-887.20	-44.84	-60.44
35	1	0.10	0.13	16.97	0.47	-3.46	14.31	1.79	-746.65	-274.84	-214.16
35	2	0.43	0.14	22.26	1.15	-1.74	10.84	2.76	-671.84	-404.59	-272.42
35	3	0.27	0.53	22.44	0.53	1.76	42.75	11.98	-1008.64	-223.69	-344.81
35	4	0.00	0.48	16.93	-0.10	-1.11	47.63	7.09	-1010.24	-111.52	-204.17
36	1	0.06	0.16	24.55	2.59	-1.94	4.80	-0.29	-622.23	-434.28	-271.60
36	2	0.39	0.18	26.77	4.61	-0.64	4.54	-4.61	-533.75	-493.19	-262.63
36	3	0.14	0.67	27.04	2.58	5.61	33.66	13.75	-992.59	-417.22	-503.37
36	4	-0.12	0.59	25.34	0.74	2.26	41.17	11.35	-1055.30	-274.31	-380.36
37	1	0.36	0.13	11.84	32.80	-0.27	1.66	-15.63	-369.02	-191.53	42.80
37	2	0.90	0.10	13.42	31.36	-2.07	-0.61	-13.11	-399.70	-251.10	127.45
37	3	1.21	0.38	12.54	27.27	-4.96	-0.72	-13.06	-557.45	-350.99	228.73
37	4	0.77	0.47	10.25	27.78	-2.42	0.23	-13.46	-513.56	-298.13	150.73
38	1	0.30	0.09	14.98	28.87	-3.64	-2.30	-16.01	-437.81	-299.14	206.80
38	2	0.85	0.08	16.63	23.28	-4.91	-8.65	-14.30	-487.89	-350.75	326.97
38	3	1.01	0.28	16.75	18.65	-7.50	-10.28	-11.99	-675.21	-402.18	398.77
38	4	0.54	0.33	14.06	24.38	-6.40	-5.18	-12.00	-595.40	-380.84	293.70
39	1	0.25	0.07	17.02	17.36	-4.08	-13.13	-12.35	-513.47	-315.54	408.79
39	2	0.80	0.06	12.45	11.06	-0.48	-15.95	-11.16	-492.95	-197.06	486.32
39	3	0.83	0.24	13.33	7.26	-0.82	-17.11	-12.19	-588.08	-158.84	402.46
39	4	0.35	0.25	17.16	12.02	-5.58	-13.08	-9.81	-629.10	-309.81	427.21
40	1	0.27	0.16	12.40	23.34	-10.11	-1.20	-9.91	-722.37	-304.04	172.68
40	2	0.66	0.13	16.05	19.60	-11.38	-3.65	-11.02	-828.60	-297.43	241.42
40	3	0.89	0.08	20.75	10.80	-12.34	25.62	-14.21	-1329.74	-291.36	482.66
40	4	0.57	0.56	14.91	15.59	-13.29	-24.03	-21.44	-1074.06	-400.30	522.10
41	1	0.24	0.10	17.60	17.93	-11.29	-6.56	-14.61	-887.24	-350.63	347.50
41	2	0.65	0.08	20.14	10.88	-8.80	-5.99	-11.43	-974.47	-252.47	362.74
41	3	0.78	0.31	22.80	3.24	-7.00	9.37	-6.61	-1407.52	-156.00	361.77
41	4	0.44	0.38	21.03	8.46	-11.47	20.75	-12.09	-1345.23	-293.84	522.28
42	1	0.70	0.07	18.27	7.65	-5.72	-11.81	-10.09	-905.95	-262.99	394.88

42	2	0.62	0.06	14.34	4.30	-0.19	-17.54	-10.07	-706.36	-63.31	305.83
42	3	0.63	0.24	14.46	0.71	0.32	-24.62	-5.58	-834.32	1.10	111.69
42	4	0.29	0.26	20.14	3.02	-5.00	-1.53	-4.54	-1236.92	-136.69	298.92
43	1	0.20	0.06	5.12	9.30	3.00	-17.24	-6.69	-385.16	-35.57	401.44
43	2	0.75	0.07	-3.68	10.44	4.96	-8.43	-3.15	-236.56	15.58	329.08
43	3	0.65	0.25	-2.02	8.88	5.82	-10.96	-8.48	-155.45	-30.69	316.55
43	4	0.17	0.24	6.62	6.77	3.33	-19.01	-5.69	-407.61	-11.49	353.94
44	1	0.15	0.08	-8.18	11.05	4.60	-4.45	4.91	-336.43	-139.08	91.64
44	2	0.70	0.09	-9.05	11.56	4.13	2.60	2.43	-268.38	-69.55	-19.71
44	3	0.46	0.23	-9.72	12.80	3.90	-1.99	4.01	-169.04	-8.34	1.70
44	4	-0.01	0.28	-6.94	11.34	5.62	-7.42	-0.68	-268.19	64.20	217.52
45	1	0.10	0.10	-7.30	11.84	3.81	6.06	3.39	-276.31	-220.41	-94.25
45	2	0.64	0.13	-3.10	12.80	3.59	8.10	-1.80	-328.81	-250.19	-128.15
45	3	0.23	0.47	-6.67	11.22	2.89	0.17	-3.56	-158.27	-206.42	-67.34
45	4	-0.21	0.38	-8.62	12.84	3.59	-0.72	0.80	-148.53	-92.31	-46.29
46	1	0.16	0.06	8.36	3.67	2.96	-21.99	-7.01	-395.01	-69.45	308.50
46	2	0.58	0.07	0.36	6.09	6.74	-15.77	-11.36	-42.40	48.20	161.66
46	3	0.49	0.26	2.34	2.33	3.85	-46.87	-13.31	7.38	56.30	68.86
46	4	0.14	0.24	9.47	0.64	0.95	-35.54	-1.90	-473.43	-44.93	110.18
47	1	0.12	0.08	-2.99	7.19	9.02	-9.74	-4.51	-66.27	100.42	196.57
47	2	0.53	0.10	-6.84	11.35	9.76	2.72	-3.93	-18.60	33.43	93.51
47	3	0.32	0.38	-3.53	5.51	5.45	-46.57	-17.15	335.15	34.73	182.66
47	4	-0.01	0.31	0.05	2.52	4.72	-52.24	-12.43	203.83	46.54	121.90
48	1	0.07	0.13	-6.51	10.71	10.45	8.73	0.79	-41.67	39.12	32.88
48	2	0.46	0.16	-5.85	11.71	8.67	-9.10	3.58	-50.89	-82.46	-40.74
48	3	0.16	0.60	-4.83	8.90	6.01	-31.78	-18.31	304.65	92.47	147.48
48	4	-0.16	0.48	-3.35	7.03	6.62	-42.74	-15.57	385.67	101.95	138.26
49	1	0.13	0.21	35.64	12.86	-0.45	13.89	-0.43	-147.87	-281.67	-17.69
49	2	0.47	0.21	40.01	14.39	-0.39	14.32	3.12	-109.25	-147.05	-12.97
49	3	0.47	0.79	39.53	16.09	0.06	16.33	3.19	-146.38	-153.92	-79.56
49	4	0.13	0.79	34.64	14.37	-0.85	16.11	1.06	-192.80	-301.42	-94.53
50	1	0.09	0.21	42.43	15.47	-0.29	8.26	3.38	-90.48	-56.57	-13.39
50	2	0.32	0.21	44.32	16.02	-0.11	7.95	3.99	-69.00	46.05	-15.55
50	3	0.32	0.79	44.78	18.06	-0.25	9.49	7.14	-36.97	49.68	-78.05
50	4	0.09	0.79	42.44	17.31	-0.25	10.11	-0.01	-117.22	-56.54	-79.25
51	1	0.09	0.21	-38.53	-19.50	0.07	-20.54	-2.19	-31.28	170.78	24.48
51	2	0.33	0.21	-43.28	-20.37	0.07	-20.12	-3.53	-51.42	107.33	19.43
51	3	0.33	0.79	-43.70	-22.19	-0.34	-22.57	0.16	-60.58	112.34	77.59
51	4	0.09	0.79	-38.44	-21.61	-0.37	-22.96	-7.89	-35.26	173.95	75.42
52	1	0.09	0.21	34.03	18.55	0.07	-30.01	2.15	-2.53	181.64	-28.42
52	2	0.35	0.21	26.63	17.10	0.07	-30.11	2.53	14.87	168.11	-30.77
52	3	0.35	0.79	25.78	18.33	-0.62	-31.88	6.70	17.48	163.25	-68.90
52	4	0.09	0.79	33.65	19.59	-0.67	-32.38	-3.41	-2.37	182.26	-73.15
53	1	0.09	0.21	-18.94	-11.21	0.15	-15.55	2.50	48.14	59.83	28.93
53	2	0.33	0.21	-22.57	-11.84	-0.01	-15.98	1.41	37.25	126.77	30.89
53	3	0.33	0.79	-21.39	-11.76	-0.89	-18.02	7.58	43.09	116.85	62.38
53	4	0.09	0.79	-18.07	-10.79	-1.09	-16.27	-11.55	54.49	38.54	55.32
54	1	0.23	0.21	17.23	8.10	-1.03	-7.51	-6.18	61.59	-36.00	-31.88
54	2	0.86	0.21	14.35	4.67	-1.92	-11.35	25.83	80.63	-207.78	-32.92
54	3	0.86	0.79	12.02	6.96	-2.27	-5.43	-0.98	67.87	-180.07	-26.57
54	4	0.23	0.79	16.07	8.25	-3.18	-6.71	-8.60	61.51	-47.00	-47.80
55	1	0.30	0.17	10.27	-0.40	-0.71	-7.81	-9.79	89.78	-312.65	-14.66
55	2	1.10	0.05	29.83	-7.22	-4.52	-26.21	-49.44	184.59	-412.49	-32.97
55	3	1.10	0.63	10.97	-4.40	-7.71	0.76	26.66	67.10	-457.22	-32.24
55	4	0.30	0.75	12.11	1.89	-5.90	-16.21	-9.46	80.65	-321.51	-33.29
56	1	0.18	0.21	-25.67	-28.07	1.53	26.20	6.86	-1251.86	-671.09	-149.44
56	2	0.67	0.21	-23.17	-18.08	2.42	15.35	3.87	-1000.57	-350.66	-70.50
56	3	0.67	0.79	-24.04	-14.16	10.09	14.57	-0.53	-711.21	-468.01	-227.89
56	4	0.18	0.79	-26.25	-18.80	10.78	5.92	23.39	-824.56	-880.84	-346.42
57	1	0.21	0.21	-58.15	-39.11	3.03	90.04	2.33	-2066.27	-1644.89	-114.45
57	2	0.78	0.21	-30.29	-22.66	3.22	41.61	3.97	-1570.18	-757.65	-108.02
57	3	0.78	0.79	-35.18	-15.96	9.95	35.11	21.47	-1042.01	-913.21	-513.30
57	4	0.21	0.79	-44.41	-20.78	4.56	40.90	96.88	-1097.90	-1360.19	-563.50
58	1	0.21	0.34	18.27	12.73	2.14	2.66	26.91	-589.68	-393.32	1.63
58	2	0.79	0.34	13.57	17.58	6.69	3.79	40.10	-588.03	-309.90	84.00
58	3	0.79	1.28	20.69	39.97	4.43	-108.14	37.92	-980.55	-300.51	-37.12
58	4	0.21	1.28	38.75	49.91	2.34	24.63	78.98	-1118.00	-470.45	-6.43
59	1	0.21	0.29	4.49	-9.68	0.60	0.45	14.95	-478.40	-253.43	2.34
59	2	0.79	0.29	3.60	-8.92	1.75	1.25	18.71	-482.20	-228.30	32.98
59	3	0.79	1.09	7.66	2.87	2.29	-3.98	2.25	-582.01	-265.16	25.24
59	4	0.21	1.09	9.63	4.50	-0.09	-14.07	24.38	-545.11	-306.24	8.76
60	1	0.21	0.32	-0.16	-21.49	0.33	0.57	6.20	-433.42	-198.35	1.16
60	2	0.79	0.32	-0.49	-21.22	0.73	-1.15	6.07	-435.61	-186.82	14.92
60	3	0.79	1.19	1.34	-15.67	0.85	-2.63	9.85	-457.19	-208.73	21.00
60	4	0.21	1.19	2.09	-15.47	0.47	0.13	10.06	-462.41	-224.55	-0.26
61	1	0.21	0.28	-0.90	-21.52	0.18	-0.06	-2.25	-414.08	-176.78	0.78
61	2	0.79	0.28	-1.10	-21.46	0.34	-0.37	-2.33	-416.06	-168.05	4.54
61	3	0.79	1.06	-1.12	-22.87	0.43	-0.25	-0.92	-427.10	-175.97	9.53
61	4	0.21	1.06	-0.88	-22.87	0.20	-0.13	-0.60	-423.06	-186.03	1.94
62	1	0.30	0.21	11.09	3.96	-8.68	9.20	-19.96	32.13	-295.21	-29.40
62	2	1.10	0.21	5.00	2.70	-5.94	-33.64	27.71	-6.19	-495.07	15.07
62	3	1.10	0.79	2.62	5.40	-8.25	0.61	20.62	-6.22	-489.68	14.00
62	4	0.30	0.79	8.31	4.99	-7.96	-4.67	-17.88	13.69	-308.05	7.78
63	1	0.23	0.21	14.90	8.11	-4.40	-11.91	-10.71	61.60	-61.22	-51.06
63	2	0.86	0.21	10.17	4.46	-3.45	-12.34	16.25	53.79	-215.28	-23.70
63	3	0.86	0.79	10.32	5.22	-4.50	-6.71	16.09	37.62	-239.22	-13.46
63	4	0.23	0.79	13.79	7.81	-5.90	-9.51	-8.14	49.00	-101.48	-51.44
64	1	0.09	0.21	-17.52	-11.01	-2.09	-12.28	-4.33	54.12	24.37	71.10
64	2	0.33	0.21	-20.53	-11.98	-1.56	-14.73	14.24	43.04	99.05	86.27
64	3	0.33	0.79	-19.27	-11.07	-2.59	-15.88	25.66	40.11	45.39	111.65
64	4	0.09	0.79	-16.69	-9.85	-4.75	-11.65	-5.12	46.54	-24.40	82.66
65	1	0.09	0.21	32.55	20.41	-1.45	-34.18	-11.37	-1.31	170.19	-113.52
65	2	0.35	0.21	24.62	18.87	-1.49	-33.27	13.49	19.72	143.91	-97.18
65	3	0.35	0.79	22.82	18.45	-2.88	-28.96	19.52	19.75	84.61	-135.97
65	4	0.09	0.79	30.20	19.67	-2.92	-33.49	-25.78	-4.33	113.84	-171.78
66	1	0.09	0.21	-37.62	-23.16	-0.96	-24.59	-11.04	-40.63	165.03	122.50
66	2	0.33	0.21	-43.22	-24.27	-0.90	-26.16	5.24	-72.48	105.21	130.91
66	3	0.33	0.79	-40.09	-23.92	-2.04	-26.32	22.58	-81.01	66.33	226.64
66	4	0.09	0.79	-34.57	-23.64	-2.14	-21.66	-16.47	-38.37	113.60	196.05
67	1	0.09	0.21	41.39	18.99	-0.42	11.42	-1.77	-139.90	-67.36	-145.48
67	2	0.32	0.21	44.20	19.68	-0.46	12.60	8.73	-100.93	44.08	-136.59
67	3	0.32	0.79	40.99	20.86	-0.98	14.84	9.57	-119.03	10.73	-242.01
67	4	0.09	0.79	37.15	19.59	-0.93	12.01	-11.66	-170.34	-97.61	-257.63
68	1	0.13	0.21	32.44	16.04	1.84	16.30	-4.46	-248.22	-326.69	-167.97
68	2	0.47	0.21	37.97	17.78	0.40	18.50	1.28	-183.41	-162.79	-152.71
68	3	0.47	0.79	33.54	18.68	0.39	21.79	-2.92	-200.83	-190.12	-275.78
68	4	0.13	0.79	26.78	17.20	2.60	15.35	-8.03	-304.21	-366.46	-290.80
69	1	0.18	0.21	-30.08	-10.99	12.50	16.86	35.69	-407.91	-950.07	-435.25
69	2	0.67	0.21	-27.46	-9.03	13.10	3.74	4.57	-353.56	-598.11	-306.80
69	3	0.67	0.79	-26.30	-4.48	12.92	2.99	3.58	35.64	-766.05	-384.29
69	4	0.18	0.79	-29.98	-2.48	8.83	7.48	15.80	-21.41	-989.15	-466.77
70	1	0.21	0.21	-33.36	0.15	3.64	-43.35	26.54	-195.12	-1038.76	-272.34
70	2	0.78	0.21	-32.85	-5.86	8.59	-3.70	19.16	-329.80	-1008.69	-556.47
70	3	0.78	0.79	-31.50	-2.54	5.10	-6.75	5.99	44.21	-930.37	-398.12
70	4	0.21	0.79	-31.01	0.43	2.20	-19.42	-4.92	70.98	-831.04	-203.75
71	1	0.21	0.34	-3.79	17.32	5.20	-18.37	11.79	-677.84	-195.34	88.51

71	2	0.79	0.34	1.56	15.80	1.88	-10.77	9.46	-642.27	-82.04	16.39
71	3	0.79	1.28	0.78	27.58	-0.44	8.88	1.32	-615.57	-8.38	-121.23
71	4	0.21	1.28	-1.42	31.18	1.59	-5.09	-24.50	-762.97	-113.80	-93.50
72	1	0.21	0.29	2.77	-7.77	2.20	-0.31	16.53	-496.04	-199.16	44.67
72	2	0.79	0.29	0.83	-8.17	1.95	-4.17	12.66	-501.24	-147.25	44.15
72	3	0.79	1.09	1.54	4.41	2.44	5.12	21.98	-537.56	-133.70	52.72
72	4	0.21	1.09	6.63	3.79	3.34	-6.75	26.25	-526.93	-206.09	35.29
73	1	0.21	0.32	-0.95	-21.20	0.85	0.46	6.28	-441.00	-168.84	22.29
73	2	0.79	0.32	-1.67	-21.07	0.98	-0.50	7.20	-448.43	-141.62	27.19
73	3	0.79	1.19	0.09	-14.83	1.78	-4.50	6.78	-469.32	-144.76	38.87
73	4	0.21	1.19	0.60	-15.61	1.27	0.33	6.10	-465.16	-185.53	32.90
74	1	0.21	0.28	-1.41	-21.35	0.40	-0.08	-2.64	-420.13	-156.60	6.85
74	2	0.79	0.28	-1.89	-21.20	0.38	-0.63	-2.42	-426.83	-135.37	9.24
74	3	0.79	1.06	-2.14	-22.62	0.76	-0.48	-1.38	-437.03	-138.23	20.12
74	4	0.21	1.06	-1.46	-22.78	0.61	-1.60	-0.29	-429.33	-162.37	14.92
75	1	0.30	0.21	6.47	5.18	-7.33	-10.06	-7.66	9.84	-333.91	25.13
75	2	1.10	0.21	0.94	5.85	-5.38	-3.17	15.75	2.86	-470.29	12.92
75	3	1.10	0.79	1.22	6.30	-4.48	-2.19	10.90	0.73	-445.88	17.18
75	4	0.30	0.79	6.44	5.24	-6.25	-5.42	-6.57	5.01	-343.97	27.78
76	1	0.23	0.21	14.09	7.15	-6.42	-8.38	-6.69	33.90	-143.26	-47.60
76	2	0.86	0.21	10.78	5.85	-5.56	-2.10	4.46	27.05	-246.30	-3.71
76	3	0.86	0.79	10.61	5.16	-5.43	-7.41	6.30	5.74	-231.94	10.20
76	4	0.23	0.79	15.11	5.83	-6.69	-6.08	-7.35	6.73	-206.68	-46.01
77	1	0.09	0.21	-16.34	-9.30	-5.94	-10.42	-5.68	34.81	-81.04	87.54
77	2	0.33	0.21	-18.45	-9.58	-3.40	-11.66	34.24	31.20	-20.16	125.81
77	3	0.33	0.79	-19.09	-7.00	-3.94	-7.57	40.51	6.57	-135.98	137.87
77	4	0.09	0.79	-17.17	-6.17	-6.96	-8.04	-4.67	9.24	-166.77	68.05
78	1	0.09	0.21	27.39	17.28	-4.24	-27.94	-42.86	-6.42	43.13	-216.55
78	2	0.35	0.21	21.53	16.29	-4.37	-24.97	25.43	12.19	9.77	-163.19
78	3	0.35	0.79	20.58	9.62	-5.65	-11.04	28.64	-0.72	-132.47	-182.71
78	4	0.09	0.79	22.86	10.23	-5.61	-11.01	-59.22	-5.56	-111.92	-258.71
79	1	0.09	0.21	-31.16	-21.52	-3.34	-19.38	-18.65	-44.19	41.65	256.84
79	2	0.33	0.21	-35.59	-22.31	-3.16	-24.00	37.46	-81.83	4.10	299.43
79	3	0.33	0.79	-25.54	-12.45	-4.54	-10.19	65.25	-39.96	-115.29	395.47
79	4	0.09	0.79	-24.65	-12.58	-4.87	-7.61	-17.10	-31.21	-113.92	316.23
80	1	0.09	0.21	32.26	18.22	-1.63	13.81	-21.80	-159.86	-127.68	-359.83
80	2	0.32	0.21	35.84	18.91	-1.49	16.52	-8.46	-111.25	-36.24	-328.49
80	3	0.32	0.79	25.51	12.13	-2.18	10.91	4.14	-89.36	-134.98	-433.39
80	4	0.09	0.79	23.21	11.39	-2.89	8.00	-32.13	-118.70	-185.66	-455.47
81	1	0.13	0.21	21.49	16.87	2.03	16.82	-15.22	-287.34	-400.23	-398.16
81	2	0.47	0.21	28.13	17.47	0.02	18.63	-7.38	-212.01	-225.45	-377.25
81	3	0.47	0.79	20.07	11.10	-1.23	12.65	-13.58	-163.77	-262.38	-453.05
81	4	0.13	0.79	14.80	11.76	-0.69	12.16	-20.76	-119.16	-396.46	-499.94
82	1	0.18	0.21	-27.62	-2.50	7.23	-2.67	15.63	79.07	-1005.75	-474.58
82	2	0.67	0.21	-22.35	-3.74	11.44	10.39	5.58	124.28	-838.07	-471.71
82	3	0.67	0.79	-18.25	-3.52	8.34	10.34	4.14	-2.39	-905.71	-521.82
82	4	0.18	0.79	-25.59	-2.50	5.46	7.49	14.09	17.44	-900.77	-477.70
83	1	0.21	0.21	-31.86	-3.79	0.24	16.30	1.15	30.33	-724.20	-275.64
83	2	0.78	0.21	-31.40	-4.12	3.27	6.58	0.47	51.19	-745.62	-369.67
83	3	0.78	0.79	-28.42	-3.82	2.36	5.47	4.77	13.70	-640.01	-392.73
83	4	0.21	0.79	-31.83	-4.51	0.37	7.02	3.08	22.88	-587.53	-265.64
84	1	0.21	0.34	1.87	15.03	0.55	3.08	17.35	-571.84	-45.24	-22.86
84	2	0.79	0.34	1.16	13.02	0.25	-5.10	14.20	-519.76	-11.03	-39.28
84	3	0.79	1.28	4.25	27.22	-0.55	-2.72	16.97	-477.11	0.85	-158.15
84	4	0.21	1.28	4.11	26.96	-0.71	-2.94	23.74	-573.00	-0.31	-134.72
85	1	0.21	0.29	-0.56	-8.65	1.50	-3.55	13.23	-497.45	-104.20	37.65
85	2	0.79	0.29	-1.52	-8.20	1.25	-0.58	14.12	-492.70	-61.95	27.73
85	3	0.79	1.09	0.18	7.85	1.24	-0.61	13.94	-517.72	-36.26	1.32
85	4	0.21	1.09	0.88	4.33	2.07	-7.99	8.29	-546.47	-84.78	34.
86	1	0.21	0.32	-2.20	-20.85	1.05	-1.78	5.51	-453.00	-118.40	28.
86	2	0.79	0.32	-3.00	-20.71	0.94	-1.37	5.27	-459.08	-86.27	26.74
86	3	0.79	1.19	-2.58	-14.97	1.06	-1.96	6.92	-481.45	-75.98	30.14
86	4	0.21	1.19	-1.42	-14.70	1.54	1.53	9.09	-477.11	-115.08	38.76
87	1	0.21	0.28	-2.29	-21.09	0.40	-0.65	-2.27	-432.59	-116.91	10.25
87	2	0.79	0.28	-2.82	-20.96	0.46	-0.61	-2.37	-439.78	-91.02	11.11
87	3	0.79	1.06	-3.16	-22.30	0.72	-1.02	-0.99	-450.01	-39.87	19.49
87	4	0.21	1.06	-2.51	-22.46	0.80	0.05	-1.09	-443.04	-117.81	20.65
88	1	0.30	0.21	6.61	5.01	-5.17	-5.60	-6.85	-4.89	-352.33	26.34
88	2	1.10	0.21	1.26	6.02	-3.44	-3.10	8.77	-2.17	-426.26	17.22
88	3	1.10	0.79	1.15	5.23	-2.46	-3.23	4.42	4.83	-401.98	14.15
88	4	0.30	0.79	7.06	4.18	-3.63	-7.14	-5.86	-12.96	-363.68	23.55
89	1	0.23	0.21	16.08	4.21	-6.18	-6.65	-6.50	-13.99	-255.13	-45.66
89	2	0.86	0.21	11.09	4.53	-5.05	-6.19	5.63	-10.20	-303.11	9.61
89	3	0.86	0.79	11.78	3.37	-3.91	-5.11	5.50	-25.99	-338.30	-6.61
89	4	0.23	0.79	17.23	2.74	-4.78	-6.50	-5.95	-33.55	-319.64	-50.88
90	1	0.09	0.21	-18.76	-4.31	-6.61	-4.61	-5.42	-16.49	-246.67	88.17
90	2	0.33	0.21	-20.27	-4.05	-3.86	-5.43	38.77	-16.50	-235.51	137.17
90	3	0.33	0.79	-21.77	-1.54	-2.91	-1.89	29.68	-41.45	-347.95	128.46
90	4	0.09	0.79	-20.42	-1.43	-4.93	-4.88	-4.19	-47.61	-335.05	96.86
91	1	0.09	0.21	20.06	3.09	-5.61	4.09	-58.51	-9.29	-253.45	-258.45
91	2	0.35	0.21	20.54	3.34	-5.66	4.34	28.68	-12.90	-252.92	-183.23
91	3	0.35	0.79	20.88	-3.28	-4.16	18.30	24.43	-33.43	-391.33	-164.35
91	4	0.09	0.79	16.76	-3.83	-4.12	20.27	-41.75	-14.30	-405.55	-217.88
92	1	0.09	0.21	-18.66	-2.03	-5.02	9.75	-18.30	12.04	-265.26	320.91
92	2	0.33	0.21	-17.11	-1.95	-4.82	11.83	67.08	19.17	-268.53	401.07
92	3	0.33	0.79	-8.32	8.67	-3.48	26.22	42.64	59.89	-426.18	305.49
92	4	0.09	0.79	-13.38	7.76	-3.69	23.73	-18.86	29.17	-427.37	257.56
93	1	0.09	0.21	14.99	2.56	-3.63	3.22	-38.51	56.42	-226.28	-546.78
93	2	0.32	0.21	15.95	2.27	-2.55	0.12	4.69	49.26	-259.29	-466.89
93	3	0.32	0.79	6.74	-6.53	-2.29	-4.34	13.56	148.87	-405.92	-344.61
93	4	0.09	0.79	7.69	-5.81	-3.82	-1.36	-20.61	200.36	-365.89	-358.36
94	1	0.13	0.21	11.38	4.32	-3.18	4.65	-19.29	-122.27	-326.76	-451.47
94	2	0.47	0.21	14.49	3.50	-2.57	2.68	-12.27	-156.60	-257.33	-511.17
94	3	0.47	0.79	8.76	-5.61	-3.45	-7.78	-4.04	-19.67	-342.03	-332.19
94	4	0.13	0.79	10.36	-4.63	-4.79	-2.61	-11.92	-135.47	-285.79	-300.16
95	1	0.18	0.21	-24.34	-0.83	3.72	9.32	6.82	-102.86	-799.41	-436.35
95	2	0.67	0.21	-17.18	-2.68	4.91	10.88	0.57	-172.02	-923.46	-476.74
95	3	0.67	0.79	-18.87	-0.14	1.35	10.17	-1.44	-288.16	-900.66	-359.29
95	4	0.18	0.79	-24.16	0.56	2.11	6.94	3.95	-168.93	-722.02	-317.99
96	1	0.21	0.21	-31.28	-3.66	0.98	2.61	5.13	3.92	-488.82	-257.56
96	2	0.78	0.21	-27.24	-3.26	2.17	4.63	4.68	-36.51	-572.42	-367.77
96	3	0.78	0.79	-27.31	-2.91	1.66	5.70	0.29	-83.35	-496.43	-278.95
96	4	0.21	0.79	-30.41	-3.07	0.80	4.16	2.95	0.18	-390.06	-213.98
97	1	0.21	0.34	0.55	12.24	0.28	-1.73	12.54	-487.28	6.75	-51.21
97	2	0.94	0.34	0.12	12.17	-0.12	-0.71	14.61	-443.36	23.82	-66.26
97	3	0.94	1.28	2.37	26.22	-0.26	-1.50	14.55	-336.15	18.66	-144.94
97	4	0.21	1.28	3.24	26.93	-0.20	-1.50	14.43	-409.12	14.56	-157.75
98	1	0.21	0.29	-2.03	-8.16	0.96	-0.82	14.15	-488.97	-38.99	17.28
98	2	0.79	0.29	-2.63	-8.51	0.40	-2.02	13.09	-476.25	-12.43	1.00
98	3	0.79	1.09	-1.18	2.84	0.08	-0.22	13.46	-464.97	8.17	-28.03
98	4	0.21	1.09	-0.71	-3.39	0.58	-2.16	15.36	-492.13	-11.85	-14.48
99	1	0.09	0.21	-3.54	-20.69	0.75	-0.20	5.58	-463.91	-64.78	22.53
99	2	0.33	0.21	-4.01	-20.72	0.51	-1.87	5.50	-465.15	-39.22	16.22
99	3	0.33	0.79	-3.36	-15.04	0.35	-0.95	6.78	-472.11	-23.53	11.80
99	4	0.09	0.79	-2.81	-15.01	0.85	-0.72	6.17	-476.94	-50.15	21.12
100	1	0.21	0.28	-3.27	-20.90	0.86	-0.58	-2.80	-448.69	-72.25	10.91

100	2	0.79	0.28	-3.66	-20.86	0.42	-0.50	-2.60	448.99	-49.39	9.73
100	3	0.79	1.06	-4.06	-22.26	0.51	-0.86	-1.39	-456.76	-45.28	13.83
100	4	0.21	1.06	-3.62	-22.25	0.62	-0.65	-1.15	-453.03	-69.50	17.42
101	1	0.20	0.21	7.90	3.22	-2.40	-5.53	-0.32	-4.56	-380.18	13.47
101	2	1.10	0.21	1.87	4.52	-0.65	-1.42	0.58	5.58	-294.35	15.69
101	3	1.10	0.79	2.93	2.46	-0.61	-14.47	-4.62	-14.75	-364.99	21.95
101	4	0.30	0.79	9.01	1.78	-0.85	-2.62	-1.03	12.16	-413.16	-10.88
102	1	0.23	0.21	17.61	1.68	-3.15	-8.16	-4.80	-49.77	-365.83	-69.33
102	2	0.86	0.21	11.87	2.45	-3.27	-5.51	-1.99	-23.20	-363.28	-21.65
102	3	0.86	0.79	11.40	1.09	-2.40	-4.93	-0.52	-2.12	-408.55	-29.89
102	4	0.23	0.79	17.64	1.24	-1.22	-9.38	-2.56	-67.93	-395.15	-103.68
103	1	0.09	0.21	-21.35	-0.35	-3.12	-2.24	-5.47	-63.67	-371.82	94.59
103	2	0.33	0.21	-22.60	-0.11	-1.87	-0.02	18.83	-59.00	-404.88	115.50
103	3	0.33	0.79	-22.33	0.23	-0.38	-0.22	4.31	-55.47	-442.34	92.98
103	4	0.09	0.79	-20.92	0.20	-1.00	-3.20	-1.00	-52.79	-392.63	80.67
104	1	0.09	0.21	15.35	-6.94	-2.60	27.22	25.18	-14.64	-484.30	-169.53
104	2	0.35	0.21	20.82	-6.10	-2.60	23.58	15.28	-38.76	-459.42	-134.31
104	3	0.35	0.79	20.85	-6.35	-0.24	22.83	7.50	-41.30	-505.94	-99.97
104	4	0.09	0.79	15.41	-7.37	-0.41	27.08	0.42	-14.80	-524.87	-98.83
105	1	0.09	0.21	-11.30	11.13	-2.41	24.70	-15.12	16.24	-505.70	195.42
105	2	0.33	0.21	-5.03	11.47	-2.31	29.28	26.67	66.47	-462.79	225.62
105	3	0.33	0.79	-4.69	12.98	-0.71	34.01	5.50	79.37	-534.46	115.39
105	4	0.09	0.79	-11.34	12.00	-0.76	27.11	-8.08	26.17	-553.28	106.33
106	1	0.09	0.21	4.99	-9.20	-3.27	-3.92	-10.83	128.86	-418.39	-253.13
106	2	0.32	0.21	3.38	-9.63	-1.81	-7.17	14.44	64.43	-448.80	-230.60
106	3	0.32	0.79	2.91	-10.72	-1.13	-8.59	12.13	118.75	-488.02	-121.60
106	4	0.09	0.79	4.75	-9.75	-2.27	-3.61	-0.96	199.61	-363.69	-160.55
107	1	0.13	0.21	10.15	-8.36	-4.52	-5.31	-4.84	-89.39	-408.37	-58.99
107	2	0.47	0.21	6.94	-8.53	-3.29	-10.73	2.04	20.87	-451.11	-187.52
107	3	0.47	0.79	6.83	-9.71	-2.91	-12.36	8.56	-275.01	-444.17	-14.22
107	4	0.13	0.79	10.35	-8.85	-4.06	-7.25	2.86	-187.46	-381.76	16.35
108	1	0.18	0.21	-25.12	0.84	1.54	6.95	2.41	-159.66	-701.07	-213.28
108	2	0.67	0.21	-20.97	1.29	0.50	6.69	-2.58	-282.11	-855.22	-249.81
108	3	0.67	0.79	-23.53	1.47	0.57	5.48	-4.93	-222.86	-784.72	-117.60
108	4	0.18	0.79	-26.07	0.95	1.08	2.84	0.39	-130.05	-693.90	-87.78
109	1	0.21	0.21	-30.21	-3.09	0.77	4.31	3.45	-4.06	-348.49	-168.62
109	2	0.78	0.21	-27.59	-2.73	1.36	4.94	-1.72	-87.35	-460.27	-200.14
109	3	0.78	0.79	-28.16	-2.81	1.11	5.69	-0.68	-49.90	-459.15	-112.92
109	4	0.21	0.79	-30.21	-3.13	0.77	3.83	2.03	-5.67	-332.08	-111.28
110	1	0.21	0.34	0.02	12.18	-0.43	-0.39	14.68	-415.40	27.78	-73.96
110	2	0.79	0.34	0.07	12.25	-0.80	-1.46	14.94	-382.64	21.24	-77.21
110	3	0.79	1.28	2.55	25.96	-0.47	1.87	15.21	-277.57	21.21	-118.78
110	4	0.21	1.28	2.27	25.98	-0.43	1.25	14.40	-301.62	20.39	-132.54
111	1	0.21	0.29	-2.89	-8.78	0.04	-0.53	13.20	-464.11	2.59	-6.88
111	2	0.79	0.29	-2.96	-9.11	-0.34	-1.32	12.67	-450.53	19.75	-11.97
111	3	0.79	1.09	-1.38	2.26	-0.64	1.72	14.20	-413.82	15.19	-45.34
111	4	0.21	1.09	-1.27	2.56	-0.20	-0.89	13.57	-444.41	14.24	-35.89
112	1	0.21	0.32	-4.23	-20.79	0.33	-0.43	5.32	-463.36	-23.50	8.59
112	2	0.79	0.32	-4.42	-20.95	0.14	-0.67	5.37	-459.87	-9.06	2.17
112	3	0.79	1.19	-3.72	-15.29	-0.08	-0.38	6.72	-464.74	1.65	-10.30
112	4	0.21	1.19	-3.66	-15.13	0.28	-0.04	6.65	-469.04	-9.28	3.12
113	1	0.21	0.28	-3.89	-20.87	0.39	-0.53	-2.46	-450.30	-35.17	8.23
113	2	0.79	0.28	-4.12	-20.96	0.37	-0.37	-2.45	-450.20	-19.47	2.87
113	3	0.79	1.06	-4.55	-22.41	0.28	-0.91	-1.79	-456.36	-10.29	1.34
113	4	0.21	1.06	-4.32	-22.30	0.41	-0.83	-1.35	-458.50	-30.35	4.70
114	1	0.30	0.25	9.79	0.69	-1.20	-3.51	4.56	14.68	-437.93	9.26
114	2	1.10	0.37	6.52	-2.13	1.13	-3.35	-9.08	0.72	-343.97	15.45
114	3	1.10	0.95	12.27	3.35	-0.26	7.00	27.75	105.93	-209.61	-30.59
114	4	0.30	0.83	8.09	-0.86	-2.30	1.17	-0.95	-2.94	-567.91	115.1
115	1	0.23	0.21	16.59	1.08	-0.16	-6.72	-2.06	-43.97	-372.49	-109.
115	2	0.86	0.21	11.25	1.40	-2.14	-6.88	-3.63	6.19	-470.12	-78.77
115	3	0.86	0.79	11.46	0.44	-1.23	-10.24	-8.52	-12.13	-558.19	-237.23
115	4	0.23	0.79	14.63	1.85	-0.13	-7.27	-1.31	2.95	-330.42	-95.92
116	1	0.09	0.21	-19.73	-0.72	0.68	-6.64	-0.16	-51.89	-441.14	95.94
116	2	0.33	0.21	-21.29	-0.93	0.55	-4.72	-5.85	-46.28	-432.86	86.89
116	3	0.33	0.79	-18.46	-2.57	1.01	-6.34	-10.19	-24.08	-379.85	75.25
116	4	0.09	0.79	-16.79	-2.57	1.44	-3.96	-3.18	-20.04	-364.95	104.21
117	1	0.09	0.21	16.67	-4.20	1.25	19.72	19.33	-18.11	-505.93	-49.18
117	2	0.33	0.21	20.55	-3.86	1.40	18.00	-0.43	-36.18	-482.03	-69.23
117	3	0.33	0.79	18.62	2.12	2.62	2.69	-7.91	-18.90	-423.85	-51.15
117	4	0.09	0.79	18.54	1.75	2.55	1.06	31.17	-17.58	-424.05	-11.34
118	1	0.09	0.21	-13.39	8.72	1.11	24.10	-5.92	24.36	-534.43	24.59
118	2	0.33	0.21	-8.20	9.22	1.07	28.06	-24.04	64.60	-523.30	1.53
118	3	0.33	0.79	-16.05	-0.96	2.19	5.80	-38.73	-11.02	-442.27	-65.13
118	4	0.09	0.79	-17.59	-1.18	2.30	6.72	-1.39	-10.50	-445.10	-24.16
119	1	0.09	0.21	7.50	-7.59	-1.52	-1.40	15.75	182.33	-456.37	17.57
119	2	0.32	0.21	6.47	-7.99	-0.40	-4.21	17.22	133.11	-498.45	2.91
119	3	0.32	0.79	15.44	0.40	0.23	5.27	15.88	-5.09	-448.07	91.62
119	4	0.09	0.79	14.33	0.28	-0.59	5.08	23.02	-6.59	-463.70	123.37
120	1	0.13	0.21	11.27	-6.60	-3.79	-4.43	9.08	-238.03	-334.61	110.65
120	2	0.47	0.21	9.89	-7.02	-2.71	-7.88	14.61	-367.49	-489.76	166.67
120	3	0.47	0.79	13.95	-0.69	-2.05	3.41	18.03	-201.35	-460.76	173.98
120	4	0.13	0.79	13.04	-1.51	-3.23	4.04	13.36	-232.79	-324.95	152.95
121	1	0.18	0.21	-26.60	0.48	0.87	4.49	-0.74	-90.48	-582.16	-21.58
121	2	0.67	0.21	-24.81	0.85	0.95	4.66	-2.56	-171.84	-755.63	-35.70
121	3	0.67	0.79	-25.13	-0.82	1.66	4.32	-4.02	-125.89	-714.05	64.13
121	4	0.18	0.79	-26.79	-2.26	0.83	9.10	-3.58	-66.24	-725.03	47.07
122	1	0.21	0.21	-30.23	-2.59	0.41	0.86	3.38	16.86	-363.00	-91.61
122	2	0.78	0.21	-28.31	-2.83	0.74	2.28	-1.62	-30.58	-494.81	-44.87
122	3	0.78	0.79	-28.35	-4.09	0.22	0.36	-3.85	-51.11	-552.32	40.47
122	4	0.21	0.79	-30.76	-3.81	0.07	0.24	-5.53	49.11	-398.06	-105.35
123	1	0.21	0.34	0.40	12.27	-1.25	1.28	14.56	-252.60	14.64	-82.21
123	2	0.79	0.34	1.17	12.27	-1.57	2.28	19.34	-321.19	-18.28	-92.93
123	3	0.79	1.28	4.40	27.61	-0.82	11.64	10.88	-287.37	-30.80	-107.06
123	4	0.21	1.28	1.94	26.15	-0.71	0.45	12.32	-266.90	13.65	-109.54
124	1	0.21	0.29	-2.83	-9.27	-0.60	0.55	13.02	-451.29	16.72	-19.92
124	2	0.79	0.29	-2.41	-9.43	-0.93	-0.10	13.15	-447.70	9.52	-31.52
124	3	0.79	1.09	-0.77	1.83	-1.16	-2.06	13.52	-356.59	29.08	-5.11
124	4	0.21	1.09	-1.01	2.12	-0.84	0.25	15.06	-402.40	12.99	-43.65
125	1	0.23	0.32	-4.46	-21.09	0.02	-9.15	5.49	-459.14	-0.85	-3.50
125	2	0.86	0.32	-4.42	-21.29	-0.09	-0.95	5.53	-453.03	3.57	-12.39
125	3	0.79	1.19	-3.40	-15.86	-0.45	0.74	7.11	-451.93	14.27	-18.84
125	4	0.21	1.19	-3.71	-15.50	-0.29	-0.05	6.67	-448.17	10.72	-12.51
126	1	0.21	0.28	-4.24	-21.07	0.35	-0.46	-2.54	-447.97	-11.98	6.44
126	2	0.79	0.28	-4.30	-21.23	0.33	-0.26	-2.73	-443.90	-9.52	4.76
126	3	0.79	1.06	-4.66	-22.75	0.15	-0.63	-1.34	-445.75	-1.96	-2.66
126	4	0.21	1.06	-4.59	-22.53	0.28	-0.31	-1.43	-454.13	-7.89	0.80
127	1	0.12	0.12	18.66	-0.06	1.09	-7.86	0.42	-430.24	-128.30	216.06
127	2	0.42	0.12	12.59	1.65	0.65	-9.06	-0.32	-371.93	-195.15	161.86
127	3	0.42	0.12	13.26	2.01	2.74	-9.20	-0.79	-361.96	-128.03	124.91
127	4	0.12	0.12	18.86	-0.33	2.78	-0.83	2.30	-429.90	-126.17	206.42
128	1	0.23	0.50	8.22	2.50	-0.29	-3.17	1.38	-438.51	-158.75	239.24
128	2	0.86	0.50	3.37	3.04	-1.36	-7.96	0.82	-387.20	-253.24	91.70
128	3	0.79	0.50	4.31	4.54	0.18	-6.85	0.39	-373.54	-108.90	82.22
128	4	0.21	0.87	9.01	3.21	1.58	-8.97	0.51	-423.21	-35.97	217.20
129	1	0.21	0.79	3.16	-2.18	-3.22	4.45	-334.72	-331.97	6.66	

129	2	0.53	0.16	-1.92	3.33	-2.91	-4.94	6.79	-266.63	-443.66	-88.62
129	3	0.19	0.59	-0.90	5.44	-2.14	-3.86	1.09	-288.78	-277.97	-64.01
129	4	-0.18	0.53	1.74	5.16	-0.87	-6.85	1.01	-326.90	-160.65	14.52
130	1	0.13	0.12	19.38	0.58	3.68	-9.39	4.11	-444.37	-110.54	173.28
130	2	0.47	0.12	13.99	2.13	3.58	-9.87	0.18	-351.12	9.34	61.19
130	3	0.39	0.45	16.14	1.51	3.80	-27.20	-2.76	-401.00	4.68	20.31
130	4	0.12	0.44	21.57	0.59	2.61	-32.13	3.12	-519.88	-45.32	49.93
131	1	0.10	0.13	10.40	2.76	2.80	-9.41	0.44	-370.17	63.14	-189.25
131	2	0.43	0.14	5.41	4.55	2.57	-5.73	-2.34	-287.55	-37.26	133.24
131	3	0.27	0.52	7.32	2.59	3.57	-21.83	-6.20	-137.48	24.91	56.88
131	4	0.00	0.48	12.70	1.41	3.24	-24.88	-2.60	-285.17	7.93	48.99
132	1	0.06	0.16	2.45	5.50	2.24	-3.23	-0.05	-276.80	-68.62	86.44
132	2	0.39	0.18	-0.54	7.46	1.68	-0.28	1.78	-255.59	-104.92	-18.84
132	3	0.14	0.67	0.99	5.04	3.29	-17.20	-10.49	19.45	35.78	58.99
132	4	-0.12	0.59	4.68	3.25	3.37	-20.91	-6.50	-42.25	55.24	63.17
133	1	0.16	0.12	-22.72	1.24	1.25	-6.04	0.47	-456.02	-135.35	-250.07
133	2	0.61	0.12	-26.22	2.37	1.32	-3.45	0.62	-414.74	-236.37	-196.46
133	3	0.52	0.45	-26.19	2.45	2.05	-4.32	-2.24	-503.47	-243.34	-239.17
133	4	0.14	0.44	-22.59	1.05	2.64	-7.68	-1.17	-497.28	-149.86	-238.73
134	1	0.12	0.12	-27.32	2.41	1.30	-2.19	1.54	-449.26	-383.33	-239.08
134	2	0.57	0.13	-27.19	1.33	1.54	-1.06	0.67	-344.67	-411.25	-114.00
134	3	0.36	0.50	-27.75	2.88	-0.02	-2.87	2.63	-424.94	-428.56	-223.26
134	4	-0.01	0.47	-27.33	3.03	1.24	-4.29	-0.26	-478.54	-328.46	-245.72
135	1	0.08	0.14	-26.81	0.60	1.81	-0.87	1.65	-289.42	-501.29	-50.01
135	2	0.52	0.16	-26.07	-0.63	1.98	-1.06	2.95	-214.70	-604.91	10.83
135	3	0.19	0.58	-26.16	-0.28	-0.21	-7.09	-0.90	-307.52	-609.87	-122.44
135	4	-0.18	0.53	-26.75	1.99	-0.21	-6.32	1.75	-388.09	-530.22	-184.96
136	1	0.13	0.12	-22.35	-0.13	5.21	-6.79	-3.78	-539.42	-119.69	-137.35
136	2	0.46	0.12	-25.87	1.72	4.85	-2.34	-5.36	-586.34	-189.99	-232.02
136	3	0.39	0.45	-27.27	0.35	1.35	-39.77	-8.91	-737.90	-83.94	-164.18
136	4	0.12	0.44	-24.22	-0.50	3.21	-36.14	-3.03	-624.62	-24.01	-68.03
137	1	0.10	0.13	-26.82	2.04	6.55	2.68	-3.88	-617.91	-219.25	-228.63
137	2	0.43	0.14	-27.63	3.54	5.75	6.99	-2.49	-609.18	-359.88	-285.92
137	3	0.27	0.53	-28.29	1.35	0.01	-41.87	-12.40	-846.78	-195.28	-300.97
137	4	0.00	0.48	-28.05	0.63	2.01	-42.76	-9.55	-819.42	-102.00	-187.14
138	1	0.06	0.16	-26.74	3.01	6.93	12.81	1.14	-580.86	-393.01	-269.31
138	2	0.39	0.18	-25.54	3.33	5.68	11.65	8.57	-509.01	-529.59	-271.08
138	3	0.14	0.66	-25.69	2.60	-0.70	-33.58	-15.52	-870.25	-375.09	-449.88
138	4	-0.11	0.59	-27.54	2.22	1.06	-40.74	-12.31	-906.78	-234.14	-337.96
139	1	0.36	0.12	-1.27	-26.20	-1.76	0.64	3.10	-661.22	-194.52	3.02
139	2	0.90	0.10	-0.75	-24.53	-0.31	2.72	1.84	-719.22	-231.34	94.82
139	3	1.21	0.37	0.06	-23.39	1.37	1.60	3.07	-773.80	-316.63	210.76
139	4	0.76	0.46	0.56	-23.99	-0.47	1.00	3.23	-681.02	-291.99	137.97
140	1	0.30	0.09	-0.62	-22.86	0.59	2.58	6.10	-786.79	-263.93	178.30
140	2	0.85	0.07	-2.26	-18.96	1.14	3.27	5.31	-870.83	-307.37	285.11
140	3	1.01	0.27	-3.22	-15.82	3.09	3.56	9.22	-983.44	-351.15	357.30
140	4	0.54	0.32	-0.06	-21.06	2.22	4.47	3.50	-961.43	-331.12	276.09
141	1	0.25	0.07	-5.44	-14.75	0.17	-0.29	11.03	-931.05	-311.06	341.93
141	2	0.06	0.06	-6.69	-10.98	-1.92	-5.14	12.00	-929.45	-220.97	346.57
141	3	0.83	0.22	-10.05	-7.04	-3.55	-1.32	11.87	-1021.73	-189.80	314.85
141	4	0.35	0.24	-6.78	-10.09	1.45	1.72	12.21	-1043.77	-301.55	366.21
142	1	0.27	0.16	-0.86	-21.84	9.80	10.95	-1.54	-801.76	-279.64	139.20
142	2	0.54	0.13	-2.07	-19.91	10.35	10.00	0.22	-826.35	-246.31	176.96
142	3	0.89	0.47	-4.40	-18.73	9.19	11.73	1.63	-774.62	-291.37	229.40
142	4	0.87	0.31	-1.79	-19.96	10.97	12.10	2.03	-805.23	-248.30	196.30
143	1	0.24	0.10	-2.96	-16.61	8.86	8.04	12.21	-1855.86	-295.23	-285.73
143	2	0.65	0.09	-6.52	-9.38	5.89	1.47	10.90	-1209.61	-240.62	209.30
143	3	0.78	0.18	-5.07	-7.84	4.84	-19.30	6.76	-1551.45	-185.22	117.41
143	4	0.44	0.37	-6.13	-6.98	7.13	-29.45	15.09	-1352.94	-263.42	488.[illegible]
144	1	0.20	0.07	-8.28	-6.16	1.97	0.06	14.31	-1216.01	-238.44	335.00
144	2	0.62	0.06	-11.03	-4.36	-3.84	1.90	10.61	-1136.45	-115.01	213.88
144	3	0.64	0.23	-11.54	-0.69	-2.22	21.82	3.78	-1275.50	-24.27	70.73
144	4	0.29	0.25	-9.13	-2.20	2.24	-4.59	8.48	-1485.55	-130.69	314.84
145	1	0.20	0.06	-9.42	-12.17	-8.23	-0.68	10.99	-832.15	-141.08	260.71
145	2	0.75	0.07	-7.89	-17.45	-10.69	-5.64	7.88	-689.28	-46.91	137.93
145	3	0.65	0.24	-8.39	-13.90	-12.21	-0.29	8.96	-673.63	-28.47	102.41
145	4	0.17	0.22	-10.79	-8.70	-8.58	2.29	10.82	-870.42	-108.77	205.90
146	1	0.15	0.07	-5.80	-21.22	-9.94	-4.54	5.69	-613.11	-60.97	50.34
146	2	0.70	0.09	-3.92	-23.75	-7.48	-0.49	6.18	-540.59	-75.99	-61.38
146	3	0.46	0.32	-2.79	-23.25	-9.24	0.04	3.68	-491.25	-16.05	-49.47
146	4	0.81	0.27	-5.99	-19.63	-12.27	-1.55	6.93	-543.08	-10.85	54.93
147	1	0.10	0.10	-2.96	-24.39	-5.51	0.71	4.65	-628.09	-68.97	-133.12
147	2	0.64	0.12	-1.46	-24.87	-3.62	1.20	5.38	-624.41	-137.33	-97.03
147	3	0.24	0.46	-0.59	-23.36	-4.72	4.85	5.71	-478.67	-103.36	-98.07
147	4	0.21	0.37	-2.27	-24.49	-7.36	4.75	4.09	-480.49	-10.37	-98.90
148	1	0.16	0.06	-12.93	-4.38	-7.54	7.77	10.07	-897.02	-99.74	192.90
148	2	0.58	0.07	-11.39	-9.58	-12.70	6.01	12.35	-639.67	-22.89	28.39
148	3	0.49	0.25	-14.31	-4.12	-7.75	51.95	13.37	-589.18	-5.18	-50.94
148	4	0.14	0.23	-13.41	-0.63	-2.84	35.26	5.09	-1010.05	-46.36	75.87
149	1	0.12	0.08	-11.45	-11.69	-15.41	3.55	8.17	-464.49	-17.11	91.42
149	2	0.53	0.10	-7.53	-18.73	-16.15	-4.94	8.81	-392.54	58.27	33.13
149	3	0.33	0.37	-12.29	-9.82	-12.63	53.12	19.89	-179.20	17.14	-3.36
149	4	-0.01	0.30	-15.53	-4.36	-9.68	56.79	14.38	-413.40	-12.06	-7.07
150	1	0.07	0.13	-6.90	-18.80	-15.84	-8.27	2.94	-378.07	43.93	39.85
150	2	0.46	0.16	-4.36	-22.05	-13.58	-5.08	-1.65	-353.32	-5.28	5.16
150	3	0.16	0.59	-7.75	-16.70	-13.80	36.99	23.24	-3.40	73.33	66.56
150	4	-0.16	0.47	-12.50	-11.98	-13.58	49.52	19.06	-85.12	62.66	41.05
151	1	0.29	0.16	-24.17	0.00	2.81	3.86	-1.85	-171.81	-602.46	64.18
151	2	0.74	0.14	-23.62	1.62	2.52	3.84	-2.88	-238.63	-468.10	-15.71
151	3	1.00	0.53	-24.00	2.11	3.82	9.12	-3.11	-200.99	-284.90	-11.90
151	4	0.63	0.58	-24.65	-0.47	4.83	8.76	-4.74	-142.17	-422.33	61.90
152	1	0.25	0.13	-22.94	2.45	2.22	4.29	-3.64	-299.14	-377.13	-103.18
152	2	0.69	0.12	-21.05	3.24	1.67	5.36	-1.72	-366.23	-181.87	-220.17
152	3	0.83	0.47	-21.18	3.14	0.93	8.01	-3.58	-293.18	-104.75	-182.19
152	4	0.65	0.50	-23.63	3.07	2.83	5.72	-2.20	-273.97	-206.46	-101.89
153	1	0.20	0.12	-18.21	2.88	1.15	7.24	-2.43	-354.48	-141.25	-226.33
153	2	0.65	0.12	-12.62	1.35	0.58	8.78	-1.11	-420.27	-127.61	-351.68
153	3	0.68	0.44	-12.84	1.15	-1.17	10.90	-1.38	-406.30	-92.42	-318.64
153	4	0.84	0.45	-18.26	2.49	-0.26	8.32	-4.81	-354.32	-53.44	-238.75
154	1	0.[illegible]	0.18	-26.23	3.94	-1.72	-6.17	2.13	-127.47	-238.49	92.74
154	2	0.[illegible]	0.16	-25.50	3.55	-3.54	-6.82	-3.68	-150.17	-131.70	-13.79
154	3	0.72	0.59	-26.61	1.76	0.54	42.99	-15.43	137.52	25.83	-76.84
154	4	0.46	0.66	-27.49	1.94	3.07	37.55	-21.25	135.06	-12.82	-39.01
155	1	0.19	0.14	-24.23	3.51	-2.24	-0.10	-7.31	-175.60	-19.24	-106.83
155	2	[illegible]	[illegible]	-21.08	2.19	-4.86	4.97	-5.99	-208.05	-22.73	-153.12
155	3	[illegible]	[illegible]	-21.93	0.45	-1.06	41.48	-9.68	-21.63	34.34	84.07
155	4	[illegible]	[illegible]	-25.10	0.87	-1.06	42.19	-14.81	89.32	42.31	-74.20
156	1	0.16	0.32	-18.16	1.70	-2.29	8.49	-6.77	-288.22	-10.84	-218.48
156	2	0.50	0.32	-12.82	0.23	-3.29	11.81	-3.18	-369.45	-73.46	-278.04
156	3	[illegible]	[illegible]	-13.88	-0.23	-2.36	35.28	-1.92	-368.35	-25.57	-113.19
156	4	[illegible]	[illegible]	-19.16	0.35	-3.06	8.42	-8.87	-147.[illegible]	[illegible]	[illegible]
157	1	[illegible]	[illegible]	-7.31	-0.01	0.06	0.18	-0.99	-170.29	-10.04	-199.35
157	2	[illegible]	[illegible]	[illegible]	-1.60	[illegible]	[illegible]	0.86	[illegible]	[illegible]	-101.11
157	3	[illegible]	0.65	-2.82	-1.14	-1.65	10.86	1.87	-460.94	-258.85	-328.85
157	4	[illegible]	[illegible]	-8.12	-0.10	-1.06	11.64	-2.65	-451.71	-122.17	-336.13
158	1	[illegible]	[illegible]	[illegible]	-2.34	[illegible]	[illegible]	0.94	-414.84	[illegible]	[illegible]

158	2	0.58	0.13	7.68	-1.65	-1.43	7.03	3.55	-382.75	-276.94	-166.50	172	4	0.14	0.24	3.80	0.29	0.84	-29.24	-0.56	-696.23	-46.61	88.7
158	3	0.37	0.50	5.90	-0.82	-0.85	9.36	3.01	-431.56	-366.80	-270.17	173	1	0.12	0.08	-5.90	3.02	4.72	-8.69	-1.75	-329.63	47.17	-133.34
158	4	-0.02	0.47	1.90	-1.37	-1.22	11.89	0.89	-457.62	-321.65	-330.67	173	2	0.53	0.10	-8.32	4.15	4.63	-1.08	-0.86	-246.08	-36.71	31.31
159	1	0.08	0.14	9.99	-0.87	-2.07	8.28	4.85	-330.81	-313.37	-57.30	173	3	0.32	0.38	-6.65	2.03	1.51	-29.74	-10.47	42.40	25.78	76.39
159	2	0.53	0.16	12.36	1.00	-2.54	6.86	7.88	-264.36	-377.22	40.69	173	4	-0.01	0.31	-4.18	1.25	2.05	-35.75	-7.70	-128.22	15.64	59.40
159	3	0.19	0.59	10.57	2.51	-0.97	11.44	4.55	-352.45	-449.09	-109.86	174	1	0.07	0.13	-7.96	2.85	4.92	3.23	0.95	-245.50	-24.17	-6.37
159	4	-0.18	0.53	8.15	0.40	-0.83	11.62	3.40	-420.43	-429.22	-202.25	174	2	0.46	0.16	-6.99	1.79	3.71	3.98	1.31	-216.46	-142.93	-69.72
160	1	0.13	0.12	-8.70	-0.14	-2.62	12.42	-3.16	-498.22	-91.04	-286.94	174	3	0.16	0.60	-7.20	1.72	0.64	-19.52	-9.76	86.59	8.68	41.81
160	2	0.47	0.12	-2.91	-1.09	-2.61	12.56	0.92	-561.48	-196.03	-319.25	174	4	-0.16	0.48	-6.81	2.37	1.89	-26.44	-3.68	107.57	41.62	42.03
160	3	0.39	0.45	-4.15	-0.66	-2.18	28.79	3.66	-744.47	-90.29	-295.22	175	1	0.13	0.21	15.23	3.28	-2.21	9.02	10.77	-203.86	-434.19	97.93
160	4	0.12	0.44	-10.14	-0.26	-1.94	32.67	-2.26	-545.37	-26.59	-116.03	175	2	0.47	0.21	18.04	4.78	-1.27	12.62	14.22	-119.70	-440.10	82.50
161	1	0.10	0.13	0.69	-0.99	-2.38	10.21	0.43	-619.48	-222.81	-301.43	175	3	0.47	0.79	21.57	9.49	-0.43	16.71	8.55	-150.05	-428.31	-4.68
161	2	0.43	0.14	4.82	-0.73	-1.95	9.80	2.30	-626.75	-346.57	-327.75	175	4	0.13	0.79	16.90	7.70	-0.82	14.87	7.35	-209.62	-476.94	-16.48
161	3	0.27	0.53	3.75	-0.48	-0.83	23.51	6.57	-935.09	-213.96	-342.14	176	1	0.09	0.21	20.09	5.75	-0.06	8.03	16.92	-95.40	-420.31	71.51
161	4	0.00	0.48	-0.74	-0.65	-1.77	27.38	3.11	-876.05	-114.50	-228.21	176	2	0.32	0.21	22.35	6.76	0.33	13.25	8.08	-72.91	-389.64	61.13
162	1	0.06	0.16	6.59	0.35	-1.88	6.62	1.05	-604.91	-343.42	-271.10	176	3	0.32	0.79	27.61	11.47	0.25	13.16	8.08	-88.34	-346.08	-17.39
162	2	0.39	0.18	9.00	2.08	-1.32	7.55	1.24	-536.16	-439.27	-233.90	176	4	0.09	0.79	24.77	10.66	0.19	11.89	7.64	-122.26	-383.96	-9.44
162	3	0.14	0.67	8.51	1.06	1.54	18.88	7.06	-950.84	-371.59	-466.97	177	1	0.09	0.21	-21.24	-7.94	1.83	-5.74	2.75	-30.08	-371.35	-4.05
162	4	-0.12	0.59	6.11	-0.13	-0.22	22.88	5.90	-1005.01	-247.23	-370.39	177	2	0.33	0.21	-22.52	-8.30	1.79	-10.89	-27.25	-48.56	-377.59	-38.80
163	1	0.36	0.13	3.25	13.80	2.07	7.70	-11.14	-428.69	-240.73	-39.82	177	3	0.33	0.79	-27.36	-13.38	0.82	-17.87	-12.80	-59.42	-325.56	28.96
163	2	0.90	0.10	7.25	14.51	0.43	5.50	-12.23	-300.23	-272.39	58.61	177	4	0.09	0.79	-23.79	-13.19	0.83	-16.38	0.45	-32.18	-302.97	46.57
163	3	1.21	0.38	7.28	11.83	-1.10	3.86	-11.22	-596.94	-362.12	182.58	178	1	0.09	0.21	19.56	6.62	2.10	-13.63	24.47	-9.24	-351.33	-20.27
163	4	0.77	0.47	4.24	11.36	0.66	4.28	-9.68	-502.50	-334.61	111.28	178	2	0.35	0.21	17.00	5.73	2.27	-12.01	-6.89	0.39	-352.94	-58.31
164	1	0.30	0.09	9.44	14.15	-0.78	2.93	-13.74	-562.74	-298.90	150.59	178	3	0.35	0.79	15.15	9.66	0.90	-23.27	-1.62	16.77	-297.62	-84.39
164	2	0.85	0.08	11.34	12.13	-1.80	-3.42	-13.16	-639.79	-322.32	265.51	178	4	0.09	0.79	20.34	10.29	0.80	-24.33	11.21	0.14	-283.33	-62.72
164	3	1.01	0.28	11.20	9.00	-3.09	-4.74	-10.09	-781.67	-361.23	341.52	179	1	0.09	0.21	-13.55	-3.83	1.55	-9.49	0.78	17.30	-341.99	107.78
164	4	0.54	0.33	9.18	11.19	-2.33	-0.31	-12.07	-671.42	-364.73	248.69	179	2	0.33	0.21	-15.31	-4.29	0.85	-8.05	-8.03	16.11	-327.09	78.73
165	1	0.25	0.07	11.42	9.22	-1.42	-7.64	-10.06	-683.42	-283.75	334.43	179	3	0.33	0.79	-12.31	-5.28	0.12	-9.59	-2.31	34.01	-272.49	101.10
165	2	0.80	0.06	7.40	5.94	0.44	-12.62	-7.83	-690.28	-201.87	393.35	179	4	0.09	0.79	-10.74	-5.00	0.69	-8.54	-10.06	43.48	-263.44	113.90
165	3	0.83	0.24	7.66	3.68	0.33	-13.73	-8.16	-773.28	-164.16	328.67	180	1	0.23	0.21	13.15	2.91	-0.81	-2.30	-6.65	4.81	-362.84	-102.84
165	4	0.35	0.25	11.18	5.84	-2.11	-8.27	-6.71	-819.05	-280.34	363.10	180	2	0.86	0.21	11.05	1.83	-2.65	-3.54	18.43	46.21	-145.55	-253.66
166	1	0.27	0.16	5.01	9.37	-2.74	5.37	-9.24	-681.60	-328.48	167.12	180	3	0.86	0.79	8.69	3.19	-2.49	-1.05	-3.84	10.50	-215.86	-107.97
166	2	0.66	0.13	8.44	8.41	-3.57	3.70	-9.44	-825.95	-304.70	206.10	180	4	0.23	0.79	10.43	3.66	-1.78	-2.26	-8.78	42.77	-314.06	-133.68
166	3	0.89	0.48	10.45	4.28	-4.85	11.49	-7.58	-1229.05	-275.98	439.56	181	1	0.30	0.17	7.56	-1.16	-2.59	-12.32	-9.98	75.13	-159.28	98.66
166	4	0.57	0.60	6.11	5.66	-4.50	12.58	-12.17	-984.67	-289.31	490.50	181	2	1.10	0.65	16.74	-4.91	-5.30	20.04	-25.05	86.71	-406.95	-52.57
167	1	0.24	0.10	10.48	7.73	-4.00	0.64	-10.60	-903.72	-331.99	296.78	181	3	1.10	0.63	6.53	-3.06	-6.21	2.17	17.90	50.70	-334.19	-16.28
167	2	0.65	0.08	12.50	5.11	-3.24	-2.22	-7.99	-1029.24	-231.30	296.24	181	4	0.30	0.75	8.05	0.19	-5.58	-8.62	-5.83	25.83	-265.10	-38.17
167	3	0.78	0.31	13.50	1.45	-3.14	-1.86	-2.46	-1395.03	-138.44	326.92	182	1	0.18	0.21	-26.16	-4.40	1.65	5.15	2.10	-104.99	-760.90	111.70
167	4	0.44	0.38	11.78	3.44	-5.09	7.00	-5.95	-1269.90	-266.95	475.31	182	2	0.67	0.21	-24.56	-2.46	3.05	5.32	-2.67	-129.42	-685.87	108.65
168	1	0.20	0.07	11.66	3.58	-2.00	-8.40	-5.79	-1009.47	-238.02	336.29	182	3	0.67	0.79	-24.49	-4.13	5.43	6.06	-4.61	-141.61	-696.51	72.12
168	2	0.62	0.06	7.94	2.23	0.66	-14.76	-6.07	-880.80	-78.46	240.94	182	4	0.38	0.79	-26.03	-6.33	3.76	4.05	5.70	-172.76	-757.51	82.49
168	3	0.63	0.24	7.84	0.40	0.48	-23.22	-3.49	-1023.27	-10.80	89.66	183	1	0.21	0.21	-32.83	-9.58	0.61	12.51	-15.12	-11.10	-641.67	-67.82
168	4	0.29	0.26	12.14	1.33	-2.23	-8.79	-0.94	-1296.19	-128.54	285.14	183	2	0.78	0.21	-28.77	-6.88	0.71	12.80	-7.25	-53.45	-583.49	76.45
169	1	0.20	0.06	1.31	4.71	2.16	-14.14	-3.79	-601.14	-72.18	315.19	183	3	0.78	0.79	-29.10	-8.16	3.17	18.16	-2.58	-203.15	-620.39	71.10
169	2	0.75	0.07	-5.61	4.41	2.84	-8.66	-0.96	-451.46	-49.83	255.20	183	4	0.21	0.79	-35.89	-12.37	2.03	20.53	15.74	-269.92	-772.70	100.96
169	3	0.65	0.25	-4.50	4.16	3.14	-10.31	-5.09	-386.82	-94.31	236.28	184	1	0.21	0.34	2.24	12.25	-2.09	-1.60	14.42	-187.46	-50.50	-39.35
169	4	0.17	0.24	2.13	3.48	2.36	-15.55	-2.60	-631.05	-45.85	274.68	184	2	0.79	0.34	3.73	11.51	-2.28	-3.36	16.54	-157.28	-18.36	90.97
170	1	0.15	0.08	-8.92	3.65	2.47	-5.66	4.64	-533.99	-206.81	34.95	184	3	0.79	1.28	9.44	30.05	-2.00	40.09	29.47	-267.22	-1.67	-251.65
170	2	0.70	0.09	-9.48	2.71	2.54	0.95	2.83	-442.21	-127.44	-50.53	184	4	0.21	0.28	2.65	28.05	-1.56	-6.56	16.56	-223.68	-61.81	-158.60
170	3	0.46	0.33	-9.68	4.03	1.67	-3.42	3.27	-355.27	-83.22	-53.64	185	1	0.21	0.29	-1.93	-9.67	-0.99	-0.69	15.56	-437.07	26.43	-35.95
170	4	-0.01	0.28	-8.00	4.50	2.63	-8.11	0.88	-485.33	-14.71	141.37	185	2	0.79	0.29	-1.50	-10.13	-0.86	-1.72	13.66	-433.03	13.59	-37.48
171	1	0.10	0.10	-8.03	2.31	2.75	4.10	2.58	-432.60	-261.20	-106.03	185	3	0.79	1.09	1.04	1.84	-0.88	-3.85	16.23	-429.46	10.16	-62.99
171	2	0.64	0.13	-4.37	2.55	3.13	-6.94	-1.66	-466.78	-264.76	-124.83	185	4	0.21	0.28	-1.00	1.97	-1.17	-10.04	14.95	-467.04	24.32	5.42
171	3	0.23	0.07	-6.94	1.39	2.01	-0.47	-3.11	-398.39	-254.17	-91.02	186	1	0.21	0.29	-4.36	-21.50	-0.16	-0.84	5.52	-443.02	0.32	-15.36
171	4	-0.21	0.38	-8.83	3.09	1.82	-1.36	0.53	-313.24	-161.60	-65.09	186	2	0.79	0.29	-4.25	-21.78	-0.16	-1.15	5.60	-433.98	-2.29	-12.93
172	1	0.16	0.06	3.13	1.78	2.24	-17.84	-3.64	-635.91	-90.24	252.91	186	3	0.79	1.19	-2.87	-16.29	-0.33	2.36	7.59	-446.63	-5.37	-28.36
172	2	0.58	0.07	-3.13	2.93	3.76	-13.50	-6.50	-306.19	-2.96	88.96	186	4	0.21	1.19	-3.39	-16.14	-0.45	-0.41	6.36	-442.26	8.34	-28.15
172	3	0.49	0.26	-1.98	1.07	1.81	-23.21	-8.57	-311.51	26.32	7.10	187	1	0.21	0.28	-4.31	-21.37	0.32	-0.38	-2.51	-438.19	-2.70	4.13

187	2	0.79	0.28	-4.30	-21.55	0.30	-0.24	-2.65	-432.04	-1.84	3.80
187	3	0.79	1.06	-4.59	-23.11	0.20	-0.57	-1.25	-433.82	-1.20	-7.85
187	4	0.21	1.06	-4.58	-22.89	0.16	0.49	-1.28	-445.53	-1.29	-4.39
188	1	0.30	0.21	7.21	1.35	-7.02	7.26	-17.61	-6.03	-274.31	-65.98
188	2	1.10	0.21	3.27	0.55	-4.97	-22.98	20.29	7.44	-360.00	16.40
188	3	1.10	0.79	1.68	1.81	-6.64	0.76	15.83	-12.53	-368.69	3.36
188	4	0.30	0.79	5.06	1.65	-6.55	-2.58	-14.70	-3.45	-317.16	-30.96
189	1	0.23	0.21	8.48	3.60	-2.74	-6.19	-10.11	61.55	-281.95	-136.23
189	2	0.86	0.21	6.68	1.38	-3.03	-8.29	12.52	5.91	-282.12	-72.03
189	3	0.86	0.79	5.87	1.62	-3.69	-3.33	11.66	17.30	-325.00	-72.67
189	4	0.23	0.79	7.07	3.58	-4.19	-4.80	-7.96	38.58	-297.94	-109.73
190	1	0.09	0.21	-9.63	-5.48	-0.47	-6.09	-3.88	38.68	-302.05	105.09
190	2	0.33	0.21	-11.21	-6.31	-0.57	-10.01	5.16	37.92	-257.22	112.10
190	3	0.33	0.79	-9.73	-5.94	-1.71	-11.46	16.96	43.13	-269.36	134.31
190	4	0.09	0.79	-8.28	-5.20	-2.86	-7.89	-7.00	48.34	-302.92	125.95
191	1	0.09	0.21	20.20	12.15	-0.27	-27.07	0.28	-0.35	-256.14	-103.13
191	2	0.35	0.21	13.91	10.92	-0.22	-25.35	6.89	21.36	-266.45	-110.73
191	3	0.35	0.79	12.61	11.66	-1.77	-24.93	12.75	21.16	-281.64	-141.67
191	4	0.09	0.79	18.84	12.56	-1.85	-29.00	-15.40	-1.27	-261.89	-156.38
192	1	0.09	0.21	-23.97	-15.01	-0.04	-20.69	-4.18	-33.35	-276.05	94.88
192	2	0.33	0.21	-28.65	-15.77	0.00	-21.48	-4.34	-66.22	-302.37	85.15
192	3	0.33	0.79	-27.59	-16.51	-1.30	-23.90	13.86	-73.21	-303.25	178.84
192	4	0.09	0.79	-22.61	-16.23	-1.34	-19.86	-11.70	-32.30	-277.29	166.58
193	1	0.09	0.21	25.96	12.63	-0.13	12.21	3.36	-134.56	-388.50	-79.23
193	2	0.32	0.21	29.17	13.49	-0.08	12.67	5.62	-91.85	-331.22	-82.35
193	3	0.32	0.79	28.30	14.89	-0.71	13.74	7.36	-109.49	-335.99	-184.14
193	4	0.09	0.79	24.70	13.83	-0.83	11.43	-6.26	-157.23	-401.12	-190.96
194	1	0.13	0.21	-17.02	-10.17	0.09	15.25	2.01	-244.75	-500.11	-103.05
194	2	0.47	0.21	22.57	11.77	-0.08	18.52	4.97	-184.02	-430.02	-80.82
194	3	0.47	0.79	21.17	13.16	-0.21	19.94	0.20	-186.41	-452.06	-204.49
194	4	0.13	0.79	14.99	11.87	0.67	14.28	-2.78	-282.50	-559.17	-224.08
195	1	0.18	0.21	-26.76	-7.59	4.96	11.70	7.48	-215.31	-781.16	41.45
195	2	0.67	0.21	-24.79	-5.33	7.29	6.01	-2.80	-124.25	-637.56	44.81
195	3	0.67	0.79	-22.85	-6.52	8.90	6.07	-0.28	-106.45	-702.99	-62.72
195	4	0.18	0.79	-25.92	-8.10	5.47	12.14	11.53	-259.96	-820.82	-140.41
196	1	0.21	0.21	-35.80	-6.51	2.06	9.92	22.07	-405.65	-775.56	-74.77
196	2	0.78	0.21	-29.10	-6.34	4.02	3.07	0.81	-313.20	-647.00	3.05
196	3	0.78	0.79	-29.02	-6.32	2.93	4.63	-0.91	-362.07	-661.23	-109.52
196	4	0.21	0.79	-35.16	-5.99	0.94	4.30	-7.43	-442.49	-765.26	-99.56
197	1	0.21	0.34	4.56	11.11	-1.46	-0.77	17.21	-733.42	-31.75	94.81
197	2	0.79	0.34	4.87	11.18	-0.71	0.71	17.70	-687.61	20.40	-27.86
197	3	0.79	1.28	9.11	29.77	-0.59	27.68	18.84	-795.51	57.21	-229.25
197	4	0.21	1.28	9.78	30.10	-1.07	-26.54	23.90	-830.67	4.22	-296.74
198	1	0.21	0.29	-1.22	-10.30	-0.70	-0.76	14.11	-432.30	-31.10	-34.19
198	2	0.79	0.29	-1.08	-10.31	-0.28	-1.60	14.87	-430.46	-37.17	-26.44
198	3	0.79	1.09	2.07	1.23	-0.33	-9.30	17.64	-413.37	-41.62	12.98
198	4	0.21	1.09	1.66	1.70	-0.72	10.08	17.25	-442.76	-40.48	-54.46
199	1	0.21	0.32	-4.18	-21.95	-0.06	-0.36	5.70	-432.40	-2.86	-13.27
199	2	0.79	0.32	-4.20	-22.12	0.10	-1.34	5.54	-424.54	-5.20	-13.76
199	3	0.79	1.19	-2.84	-16.80	-0.03	2.35	7.12	-425.60	-15.12	-21.56
199	4	0.21	1.19	-2.79	-16.48	-0.22	-0.91	7.52	-421.00	-5.36	-27.54
200	1	0.21	0.28	-4.31	-21.69	0.31	-0.46	-2.60	-425.63	-2.47	3.84
200	2	0.79	0.28	-4.33	-21.84	0.36	-0.17	-2.74	-419.78	-2.03	3.68
200	3	0.79	1.06	-4.58	-23.40	0.26	-0.79	-1.14	-419.40	-3.91	6.23
200	4	0.21	1.06	-4.56	-23.25	0.24	-0.80	-1.33	-429.97	-3.28	-7.13
201	1	0.30	0.21	3.58	1.55	-6.21	-6.26	-8.14	6.74	-352.24	-18.12
201	2	1.10	0.21	0.50	1.90	-4.80	-1.93	13.15	-4.53	-367.97	-3.37
201	3	1.10	0.79	0.62	2.08	-4.33	-0.81	10.67	1.60	-372.37	-0.61
201	4	0.30	0.79	3.32	1.56	-5.74	-2.93	-7.23	5.04	-376.64	-19.99
202	1	0.23	0.21	7.04	3.25	-4.97	-4.85	-6.91	23.96	-333.70	-91.86
202	2	0.86	0.21	5.81	2.12	-4.58	-0.14	5.04	20.51	-342.21	-61.25
202	3	0.86	0.79	5.43	1.65	-4.76	-4.24	6.71	6.72	-379.45	-42.80
202	4	0.23	0.79	7.64	2.37	-5.60	-3.43	-7.39	9.29	-381.19	-90.79
203	1	0.09	0.21	-7.88	-4.86	-4.19	-6.55	-6.89	36.00	-321.49	128.71
203	2	0.33	0.21	-9.16	-5.23	-2.57	-7.98	25.60	30.09	-300.52	147.04
203	3	0.33	0.79	-9.78	-3.32	-3.29	-5.40	32.43	10.41	-376.22	156.84
203	4	0.09	0.79	-8.62	-2.71	-5.55	-5.40	-6.58	12.35	-381.68	120.28
204	1	0.09	0.21	16.81	11.14	-3.26	-25.64	-32.23	-1.40	-296.68	-200.85
204	2	0.35	0.21	11.61	10.18	-3.30	-23.10	21.04	16.74	-316.51	-170.47
204	3	0.35	0.79	11.05	5.30	-4.75	-10.91	24.96	3.40	-409.44	-189.17
204	4	0.09	0.79	13.29	5.74	-4.76	-11.07	-49.30	-2.62	-400.50	-244.05
205	1	0.09	0.21	-20.38	-15.08	-2.58	-18.83	-14.62	-39.51	-314.91	223.92
205	2	0.33	0.21	-24.57	-15.68	-2.43	-23.19	27.61	-75.46	-336.16	247.64
205	3	0.33	0.79	-16.57	-7.96	-3.89	-12.10	55.04	-40.13	-410.98	343.75
205	4	0.09	0.79	-15.19	-7.91	-4.14	-9.65	-15.09	-29.09	-418.30	285.27
206	1	0.09	0.21	21.73	12.87	-1.57	12.25	-15.55	-148.87	-417.62	-284.64
206	2	0.32	0.21	24.93	13.66	-1.23	14.83	7.59	-103.88	-358.68	-264.20
206	3	0.32	0.79	16.79	8.06	-1.89	9.37	3.71	-91.24	-419.43	-368.27
206	4	0.09	0.79	14.91	7.42	-2.60	6.43	-26.28	-122.69	-448.45	-376.20
207	1	0.13	0.21	12.34	11.58	0.31	14.38	-9.69	-243.83	-603.19	-316.65
207	2	0.47	0.21	18.06	12.37	-0.57	16.99	-4.42	-195.22	-484.06	-296.39
207	3	0.47	0.79	12.28	7.05	-1.34	10.98	-10.89	-167.07	-507.12	-364.95
207	4	0.13	0.79	8.43	7.17	-1.15	9.42	-16.08	-123.00	-610.61	-407.83
208	1	0.18	0.21	-24.05	-8.62	5.74	5.72	7.60	-273.53	-781.00	-218.77
208	2	0.67	0.21	-19.60	-7.70	9.38	9.63	2.33	-124.20	-702.39	-162.80
208	3	0.67	0.79	-16.02	-8.65	7.95	11.00	1.68	-191.51	-795.57	-214.12
208	4	0.18	0.79	-23.09	-8.25	5.99	8.80	12.71	-265.44	-785.03	-354.27
209	1	0.21	0.21	-35.42	-10.36	0.91	16.09	-9.31	-467.20	-928.65	-205.37
209	2	0.78	0.21	-28.81	-7.98	2.74	17.51	2.05	-369.95	-628.45	-205.28
209	3	0.78	0.79	-27.54	-7.36	3.45	13.31	6.27	-328.35	-578.89	-334.07
209	4	0.21	0.79	-34.43	-9.80	1.22	20.48	10.93	-411.90	-707.67	-150.03
210	1	0.21	0.34	4.92	11.24	-0.06	-2.93	19.82	-556.38	16.26	-77.14
210	2	0.79	0.34	3.76	10.83	0.87	-4.71	17.99	-496.92	25.68	-68.68
210	3	0.79	1.28	8.95	28.63	0.02	19.11	28.65	-540.78	16.15	-216.58
210	4	0.21	1.28	10.21	29.73	-0.42	-23.38	25.96	-629.54	44.96	-219.15
211	1	0.21	0.29	-1.32	-10.50	0.04	-0.66	14.82	-423.06	-11.56	-19.99
211	2	0.79	0.29	-1.79	-10.76	0.37	-0.73	14.41	-422.05	-6.27	-11.83
211	3	0.79	1.09	0.91	1.21	0.55	-8.50	13.87	-472.40	8.84	-40.55
211	4	0.21	1.09	1.78	1.03	0.03	9.15	14.54	-512.12	-28.54	9.65
212	1	0.21	0.32	-4.28	-22.21	0.18	0.39	5.30	-416.00	-7.27	-10.73
212	2	0.79	0.32	-4.42	-22.31	0.27	-0.68	5.47	-411.80	-4.28	-4.70
212	3	0.79	1.19	-3.21	-16.86	0.25	0.94	7.56	-426.42	-7.17	-9.46
212	4	0.21	1.19	-3.00	-16.90	0.15	-2.73	7.58	-420.59	-16.61	-13.24
213	1	0.21	0.28	-4.37	-21.94	0.40	-0.40	-2.72	-414.54	-1.24	3.82
213	2	0.79	0.28	-4.47	-22.05	0.43	-0.13	-2.57	-410.43	0.25	4.16
213	3	0.79	1.06	-4.73	-23.62	0.33	-1.22	-1.38	-412.36	0.90	-1.78
213	4	0.21	1.06	-4.62	-23.50	0.29	-0.47	-1.12	-419.72	-3.51	-2.34
214	1	0.30	0.21	3.26	1.53	-5.24	-3.02	-7.33	-3.80	-392.23	-20.27
214	2	1.10	0.21	0.60	1.90	-3.82	-1.89	9.84	-0.90	-375.85	0.28
214	3	1.10	0.79	0.55	1.67	-3.39	-1.42	8.19	4.81	-380.34	-2.16
214	4	0.30	0.79	3.36	1.23	-4.49	-2.65	-6.62	-8.76	-415.62	-19.02
215	1	0.86	0.21	6.39	1.17	-5.50	-4.08	-6.89	-5.97	-416.99	-90.20
215	2	0.86	0.21	5.65	1.28	-4.65	-4.21	6.68	-5.91	-402.41	-41.90
215	3	0.86	0.79	5.82	0.65	-3.99	-4.31	6.05	-19.46	-438.34	-56.95
215	4	0.23	0.79	9.35	0.19	-4.67	-3.54	-6.30	-23.82	-466.18	-92.95
216	1	0.23	0.21	-0.95	-1.24	-5.60	-7.43	-6.85	-9.53	-442.58	120.01

216	2	0.33	0.21	-10.85	-1.07	-3.36	-3.84	33.79	-8.47	-449.61	157.79
216	3	0.33	0.79	-12.12	0.96	-2.73	-0.73	27.32	-31.26	-531.91	151.14
216	4	0.09	0.79	-11.33	0.98	-4.45	-2.77	-6.81	-36.66	-506.92	129.30
217	1	0.09	0.21	10.97	-0.14	-4.92	1.73	-50.68	-5.37	-506.51	-247.20
217	2	0.35	0.21	11.06	-0.03	-4.92	2.41	26.12	-7.07	-499.13	-190.88
217	3	0.35	0.79	11.28	-5.43	-3.86	15.11	23.73	-25.48	-600.68	-177.51
217	4	0.09	0.79	7.86	-5.95	-3.83	16.49	-37.93	-10.20	-618.80	-216.35
218	1	0.09	0.21	-10.03	0.99	-4.41	6.27	-16.37	10.61	-532.46	295.92
218	2	0.33	0.21	-9.26	1.08	-4.24	7.87	58.08	13.08	-529.93	355.96
218	3	0.33	0.79	-1.19	10.08	-3.17	20.59	37.71	49.37	-648.60	277.94
218	4	0.09	0.79	-5.12	9.39	-3.33	18.94	-17.72	26.20	-652.62	244.53
219	1	0.09	0.21	7.83	-0.16	-3.15	2.04	-32.87	38.21	-467.57	-475.37
219	2	0.32	0.21	8.49	-0.36	-2.21	-0.52	3.75	37.21	-513.50	-409.40
219	3	0.32	0.79	0.02	-7.93	-1.97	-4.22	11.69	129.92	-625.07	-307.09
219	4	0.09	0.79	0.99	-7.32	-3.21	-2.13	-17.82	170.85	-579.98	-309.39
220	1	0.13	0.21	5.72	0.93	-2.42	2.66	-16.64	-156.41	-543.12	-364.09
220	2	0.47	0.21	7.62	0.61	-2.11	1.75	-11.40	-183.26	-486.16	-429.68
220	3	0.47	0.79	2.13	-7.03	-2.60	-7.14	-4.90	-60.10	-550.31	-275.57
220	4	0.13	0.79	3.88	-6.25	-3.10	-3.68	-11.50	-192.74	-493.32	-232.79
221	1	0.18	0.21	-23.36	-6.19	4.89	11.81	9.85	-244.82	-747.90	-349.11
221	2	0.67	0.21	-16.16	-7.46	5.21	10.38	-0.39	-241.59	-849.40	-365.61
221	3	0.67	0.79	-18.72	-4.16	1.76	9.65	-1.21	-290.31	-841.66	-324.80
221	4	0.18	0.79	-23.90	-3.10	2.76	6.28	5.83	-196.95	-736.22	-309.68
222	1	0.21	0.21	-31.71	-5.36	1.30	3.41	15.92	-229.41	-493.76	-302.40
222	2	0.78	0.21	-26.46	-5.15	3.53	4.19	7.32	-222.94	-587.26	-362.09
222	3	0.78	0.79	-26.95	-3.70	2.36	2.88	1.92	-87.26	-548.09	-270.68
222	4	0.21	0.79	-28.37	-2.37	1.20	-4.79	3.50	7.78	-395.71	-204.42
223	1	0.21	0.34	1.65	10.58	1.35	-0.68	13.40	-480.48	-37.74	-75.24
223	2	0.79	0.34	0.10	11.26	0.44	-0.91	12.04	-431.58	40.63	-99.78
223	3	0.79	1.28	-1.19	24.20	0.24	13.55	6.47	-331.27	27.27	-168.98
223	4	0.21	1.28	5.50	26.98	0.76	-41.07	16.99	-380.28	36.45	-226.24
224	1	0.21	0.29	-2.11	-10.60	0.41	-0.07	12.96	-429.00	-2.60	-11.88
224	2	0.79	0.29	-2.62	-10.53	0.31	-1.19	14.74	-414.92	14.44	-22.48
224	3	0.79	1.09	-0.30	0.93	0.17	-6.51	15.82	-409.57	25.61	-55.47
224	4	0.21	1.09	-0.06	1.26	0.50	3.77	18.53	-448.00	21.27	-46.99
225	1	0.21	0.32	-4.56	-22.38	0.32	-0.02	5.69	-412.15	0.98	-2.41
225	2	0.79	0.32	-4.75	-22.41	0.30	-0.71	5.56	-407.52	8.92	-2.31
225	3	0.79	1.19	-3.87	-17.02	0.32	-0.26	6.04	-408.47	6.67	-11.97
225	4	0.21	1.19	-3.31	-16.87	0.28	-1.52	7.01	-410.62	3.01	-14.23
226	1	0.21	0.28	-4.54	-22.11	0.43	-0.37	-2.77	-407.38	3.51	4.89
226	2	0.79	0.28	-4.66	-22.20	0.42	-0.21	-2.69	-404.20	7.66	4.86
226	3	0.79	1.06	-4.97	-23.80	0.35	-0.77	-1.33	-406.15	6.77	-0.82
226	4	0.21	1.06	-4.88	-23.70	0.34	0.25	-1.35	-410.22	2.78	-0.34
227	1	0.30	0.21	-3.28	0.84	-3.89	-3.25	-5.80	-0.04	-443.68	-28.33
227	2	1.10	0.21	0.52	1.46	-3.01	-1.40	7.02	7.74	-381.41	1.57
227	3	1.10	0.79	0.55	1.00	-2.32	-0.06	5.68	-12.92	-388.76	10.04
227	4	0.30	0.79	3.16	0.39	-3.15	-5.25	-7.23	9.76	-486.16	-56.95
228	1	0.23	0.21	9.72	-0.41	-3.53	-4.89	-5.86	-40.80	-503.75	-109.54
228	2	0.86	0.21	5.91	0.50	-3.34	-3.25	4.41	-17.44	-460.75	-68.87
228	3	0.86	0.79	5.44	0.07	-2.60	-1.20	5.70	-3.41	-505.52	-72.32
228	4	0.23	0.79	9.49	-0.45	-1.91	-5.23	-5.27	-63.79	-523.29	-140.13
229	1	0.09	0.21	-12.03	1.69	-3.06	-0.38	-7.57	-53.13	-529.86	122.95
229	2	0.33	0.21	-12.75	1.94	-1.91	-1.70	18.77	-49.31	-571.79	-140.15
229	3	0.33	0.79	-12.53	2.17	-0.65	1.16	5.85	-47.57	-593.12	-119.52
229	4	0.09	0.79	-11.69	1.94	-0.97	-1.83	-3.90	-45.41	-536.38	-117.40
230	1	0.09	0.21	6.30	-8.62	-2.62	23.56	-24.68	-10.45	-675.68	-176.47
230	2	0.35	0.21	11.05	-7.92	-2.57	20.26	16.08	-30.56	-647.79	-152.28
230	3	0.35	0.79	11.04	-7.97	-0.60	21.23	10.34	-34.34	-675.86	-122.31
230	4	0.09	0.79	5.94	-8.97	-0.76	25.02	-2.54	-10.19	-697.49	-115.
231	1	0.09	0.21	-2.88	12.24	-2.34	19.92	-14.88	13.85	-707.97	194.51
231	2	0.33	0.21	2.30	12.54	-2.26	23.87	25.28	56.24	-663.95	214.18
231	3	0.33	0.79	3.56	14.11	-0.93	29.97	8.10	73.33	-716.99	122.52
231	4	0.09	0.79	-2.29	13.27	-0.97	23.64	-8.94	25.70	-736.03	118.88
232	1	0.09	0.21	-2.02	-10.14	-2.75	-4.09	-10.36	99.63	-615.09	-226.22
232	2	0.32	0.21	-3.57	-10.52	-1.59	-6.96	12.18	46.12	-648.20	-212.22
232	3	0.32	0.79	-5.05	-11.78	-1.09	-8.65	10.43	106.22	-669.69	-124.35
232	4	0.09	0.79	-3.24	-10.84	-2.05	-3.99	-2.10	179.04	-544.07	-158.41
233	1	0.13	0.21	2.67	-9.17	-2.88	-5.00	-5.54	-146.98	-601.91	-13.14
233	2	0.47	0.21	-0.26	-9.46	-2.49	-10.09	-0.08	-18.49	-645.52	-153.55
233	3	0.47	0.79	-1.37	-10.58	-2.34	-11.41	5.62	-304.31	-621.44	-6.81
233	4	0.13	0.79	1.66	-9.59	-2.86	-6.55	0.67	-226.96	-553.96	33.55
234	1	0.18	0.21	-24.78	-1.90	1.90	3.82	3.53	-142.52	-712.95	-201.83
234	2	0.67	0.21	-20.98	-2.11	0.62	5.67	-2.12	-250.08	-810.41	-240.17
234	3	0.67	0.79	-24.10	-1.33	0.63	3.86	-4.46	-202.60	-749.11	-123.65
234	4	0.18	0.79	-25.92	-2.04	1.30	4.32	0.52	-118.40	-691.61	-94.60
235	1	0.21	0.21	-28.14	-3.36	0.55	1.60	0.70	12.63	-384.64	-161.07
235	2	0.78	0.21	-27.40	-3.67	1.28	4.57	-1.37	-98.73	-497.92	-180.26
235	3	0.78	0.79	-27.00	-3.93	0.95	2.04	-0.80	-55.42	-489.65	-95.18
235	4	0.21	0.79	-29.02	-4.34	0.42	3.33	0.15	-0.44	-390.10	-117.54
236	1	0.21	0.34	0.00	11.31	-0.54	-1.33	19.74	-389.02	40.70	-108.92
236	2	0.79	0.34	0.08	10.56	-0.78	-2.56	14.42	-355.42	25.47	-114.01
236	3	0.79	1.28	2.44	24.90	-0.67	4.02	14.06	-306.76	5.59	-132.02
236	4	0.21	1.28	2.88	24.62	-0.71	-2.42	12.77	-311.01	20.66	-149.32
237	1	0.21	0.29	-3.10	-10.74	0.11	-1.21	12.98	-397.30	16.82	-29.32
237	2	0.79	0.29	-3.26	-10.97	-0.25	-1.37	12.74	-380.46	7.39	-32.07
237	3	0.79	1.09	-1.42	0.53	-0.32	1.74	15.93	-362.27	18.76	-65.17
237	4	0.21	1.09	-1.77	0.44	0.08	1.77	10.65	-401.59	20.72	-58.81
238	1	0.21	0.32	-4.86	-22.44	0.23	-0.13	5.43	-405.73	12.32	-4.32
238	2	0.79	0.32	-4.95	-22.62	0.14	-0.62	5.35	-401.83	13.54	-8.08
238	3	0.79	1.19	-4.17	-17.10	-0.01	0.04	6.62	-391.45	22.55	-7.69
238	4	0.21	1.19	-3.94	-17.01	0.22	-0.23	7.30	-402.57	12.29	-12.07
239	1	0.21	0.28	-4.71	-22.28	0.40	-0.32	-2.82	-402.41	10.44	4.59
239	2	0.79	0.28	-4.77	-22.40	0.39	-0.11	-2.70	-399.61	13.01	3.21
239	3	0.79	1.06	-5.12	-23.96	0.30	-0.83	-1.40	-399.69	15.33	0.79
239	4	0.21	1.06	-5.09	-23.88	0.34	0.31	-1.48	-402.48	10.60	0.61
240	1	0.30	0.25	3.38	0.41	-2.76	0.12	0.58	-6.51	-507.73	-29.64
240	2	1.10	0.37	1.45	0.03	-1.71	-3.03	2.15	-26.47	-401.60	-11.03
240	3	1.10	0.95	3.86	0.27	-2.42	-3.57	6.79	25.58	-275.33	-42.32
240	4	0.30	0.83	2.68	0.27	-2.23	3.96	-3.90	-34.49	-639.44	90.26
241	1	0.23	0.21	8.35	-0.37	-0.94	-5.29	-4.49	-43.52	-495.30	-142.40
241	2	0.86	0.21	4.70	-0.28	-2.25	-5.13	-2.46	-1.29	-568.07	-113.21
241	3	0.86	0.79	4.10	-0.04	-1.75	-6.25	3.07	-29.96	-652.94	-267.73
241	4	0.23	0.79	6.44	0.56	-0.55	-5.61	-3.41	-3.76	-448.79	-121.26
242	1	0.09	0.21	-10.81	0.97	0.48	-3.24	-5.79	-49.16	-578.99	125.17
242	2	0.33	0.21	-11.77	0.82	0.23	-1.74	-3.49	-42.18	-577.24	112.87
242	3	0.33	0.79	-9.22	-0.69	0.77	-3.65	-7.45	-24.39	-520.37	97.90
242	4	0.09	0.79	-8.30	-0.73	1.21	-1.16	-3.09	-27.56	-498.07	127.03
243	1	0.09	0.21	6.81	-6.07	0.87	19.51	14.85	-14.02	-672.21	-70.29
243	2	0.35	0.21	10.70	-5.71	0.93	17.92	2.44	-31.08	-644.67	-93.17
243	3	0.35	0.79	8.97	-0.14	2.12	5.10	-4.49	-16.62	-582.84	-73.38
243	4	0.09	0.79	9.31	-0.61	2.64	3.39	26.30	-14.08	-587.69	-33.59
244	1	0.09	0.21	-7.69	10.44	0.73	27.03	-7.60	26.15	-710.67	47.93
244	2	0.33	0.21	-11.04	10.97	0.68	25.94	-19.74	62.92	-699.26	18.37
244	3	0.33	0.79	-5.94	1.65	1.75	3.90	-33.36	-6.66	-615.26	-42.72
244	4	0.09	0.79	-7.14	1.45	1.86	6.98	-3.28	-6.01	-618.56	-1.71
245	1	0.09	0.21	-1.47	-9.11	-1.53	-1.91	13.38	171.21	-627.69	5.11

245	2	0.32	0.21	-2.54	-9.52	-0.47	-5.00	16.23	127.22	-673.11	-12.00
245	3	0.32	0.79	5.04	-2.00	0.04	3.92	15.96	-1.54	-618.09	69.56
245	4	0.09	0.79	4.19	-2.01	-0.86	3.77	20.82	-4.37	-628.17	102.67
246	1	0.13	0.21	1.86	-7.66	-3.07	-4.24	6.50	-265.37	-494.64	111.61
246	2	0.47	0.21	-0.12	-8.32	-2.39	-7.84	11.99	-384.21	-657.38	158.89
246	3	0.47	0.79	3.94	-2.72	-2.11	2.36	15.92	-200.55	-618.59	155.65
246	4	0.13	0.79	3.07	-3.19	-3.07	3.29	11.13	-236.26	-529.60	140.46
247	1	0.18	0.21	-26.32	-2.12	1.15	3.35	2.06	-98.73	-693.80	-33.08
247	2	0.67	0.21	-25.36	-1.44	1.27	3.20	-1.96	-170.52	-718.29	-49.44
247	3	0.67	0.79	-25.92	-2.08	2.17	2.70	-4.09	-140.87	-682.26	42.11
247	4	0.18	0.79	-26.77	-2.93	1.59	2.29	-0.01	-77.66	-698.64	33.27
248	1	0.21	0.21	-29.55	-5.51	0.99	5.94	0.52	-1.02	-438.27	-84.71
248	2	0.78	0.21	-27.38	-4.43	1.28	3.41	-3.06	-44.36	-493.80	-40.50
248	3	0.78	0.79	-28.46	-4.75	1.57	4.42	-1.64	-59.27	-530.41	18.19
248	4	0.21	0.79	-29.36	-4.95	1.06	2.67	8.76	14.30	-513.27	-42.23
249	1	0.21	0.34	0.40	10.46	-1.00	1.16	14.89	-332.52	4.69	-117.96
249	2	0.79	0.34	0.87	10.80	-1.03	0.45	20.91	-292.89	-24.15	-110.59
249	3	0.79	1.28	4.51	25.50	-0.61	6.35	14.65	-346.13	38.33	-138.42
249	4	0.21	1.28	2.98	25.18	-0.70	1.86	15.82	-308.92	8.94	-130.10
250	1	0.21	0.29	-3.19	-11.13	-0.41	0.16	12.96	-358.14	12.81	-17.79
250	2	0.79	0.29	-2.89	-11.26	-0.70	-0.10	13.06	-342.19	42.08	14.31
250	3	0.79	1.09	-1.29	-0.05	-0.85	-1.27	11.18	-281.52	-30.27	-80.20
250	4	0.21	1.09	-1.29	0.38	-0.62	-0.02	15.57	-334.86	1.28	-65.06
251	1	0.21	0.32	-4.95	-22.74	0.06	-0.15	5.38	-393.85	17.40	-7.63
251	2	0.79	0.32	-4.87	-22.88	-0.01	-0.82	5.41	-387.22	18.17	-4.37
251	3	0.79	1.19	-3.85	-17.53	-0.30	0.65	7.44	-400.69	10.22	-29.56
251	4	0.21	1.19	-4.13	-17.23	-0.14	0.02	6.63	-393.98	23.08	-13.41
252	1	0.21	0.28	-4.78	-22.49	-0.39	-0.36	-2.68	-395.87	13.39	-2.65
252	2	0.79	0.28	-4.77	-22.63	0.38	-0.15	-2.87	-392.39	12.34	4.11
252	3	0.79	1.06	-5.14	-24.28	0.23	-0.53	-1.50	-392.69	14.61	-5.10
252	4	0.21	1.06	-5.12	-24.07	-0.25	0.58	-1.45	-401.13	15.25	-2.29
253	1	0.17	0.12	30.63	-1.04	-0.11	-7.14	0.50	-437.23	-131.20	130.92
253	2	0.62	0.12	24.61	0.65	-0.63	-9.54	-0.55	-382.27	-207.50	89.89
253	3	0.53	0.45	25.64	0.89	1.27	-9.36	0.10	-377.33	-150.07	54.53
253	4	0.14	0.44	30.92	-0.51	1.45	-7.46	3.54	-435.20	-130.34	127.99
254	1	0.12	0.12	19.73	1.64	-1.20	-9.41	0.91	-450.28	-172.92	176.82
254	2	0.58	0.13	13.78	2.65	-2.10	-9.21	0.49	-396.55	-290.07	61.82
254	3	0.37	0.50	15.57	3.38	0.09	-7.41	-0.99	-398.03	-155.52	40.60
254	4	-0.02	0.47	21.01	1.95	0.88	-9.45	0.80	-496.31	-69.70	157.12
255	1	0.08	0.14	10.38	3.01	-2.83	-6.75	3.84	-340.97	-329.55	-6.27
255	2	0.53	0.16	6.71	3.51	-3.45	-5.82	5.15	-269.45	-506.73	-81.68
255	3	0.19	0.59	8.44	5.32	-1.89	-2.83	1.38	-310.18	-347.99	-78.04
255	4	-0.18	0.53	11.96	4.26	-0.80	-6.29	0.19	-352.36	-219.15	-14.88
256	1	0.13	0.12	31.38	0.44	1.47	-8.65	6.80	-452.77	-110.00	106.00
256	2	0.47	0.12	26.40	1.39	1.50	-11.43	2.67	-380.55	-10.27	-2.19
256	3	0.39	0.45	29.43	1.41	3.43	-13.69	0.84	-456.70	-7.22	-11.51
256	4	0.12	0.44	34.69	0.80	1.38	-21.26	5.20	-525.51	-45.05	22.94
257	1	0.10	0.13	22.44	1.96	-0.08	-12.83	2.32	-418.81	40.49	131.41
257	2	0.43	0.14	16.90	3.06	0.08	-11.00	-1.39	-342.63	-80.02	82.19
257	3	0.27	0.53	19.42	2.01	3.60	-6.57	-1.64	-247.72	-3.62	9.62
257	4	0.00	0.48	25.59	1.19	2.49	-9.88	1.36	-372.78	-5.65	6.10
258	1	0.06	0.16	13.15	4.14	-0.67	-10.34	-0.43	-335.37	-116.51	42.71
258	2	0.39	0.18	9.13	5.66	-0.56	-6.79	-1.89	-308.66	-170.74	-54.20
258	3	0.14	0.67	11.10	3.70	3.38	-4.99	-4.32	-103.32	-16.80	-9.55
258	4	0.12	0.59	15.98	2.24	2.85	-6.04	-1.72	-167.16	-21.68	-12.61
259	1	0.16	0.12	-34.04	2.14	0.06	-3.98	0.18	-459.07	-132.60	-166.51
259	2	0.61	0.12	-36.02	3.17	0.35	-0.19	0.80	-414.64	-225.40	-128.37
259	3	0.32	0.45	-36.22	2.94	0.28	-0.86	-2.82	-487.65	-221.01	-171.64
259	4	0.14	0.44	-33.99	1.67	1.24	-5.42	-2.62	-490.66	-143.45	-161.00
260	1	0.12	0.12	-35.71	3.17	0.61	1.34	1.48	-447.52	-366.68	-189.00
260	2	0.57	0.13	-33.54	2.01	1.29	2.75	0.91	-344.64	-383.51	-84.50
260	3	0.36	0.50	-34.70	3.33	-0.88	0.65	3.52	-400.92	-291.08	-195.12
260	4	-0.01	0.47	-36.04	3.50	0.12	-0.54	-0.72	-455.70	-296.31	-189.48
261	1	0.08	0.14	-31.76	1.30	1.90	2.44	1.58	-291.08	-467.81	-32.05
261	2	0.52	0.16	-29.21	0.02	2.39	2.00	3.80	-218.30	-564.36	21.47
261	3	0.19	0.58	-30.22	0.03	-0.42	-4.72	-0.77	-292.54	-565.11	-102.06
261	4	-0.18	0.53	-32.31	2.45	-0.76	-3.13	2.15	-361.60	-487.68	-156.05
262	1	0.13	0.12	-33.91	0.03	3.97	-4.68	-6.69	-519.47	-115.96	-116.44
262	2	0.46	0.12	-36.10	1.76	3.77	1.38	-7.28	-546.92	-168.05	-169.96
262	3	0.39	0.45	-38.58	-0.05	-0.10	-35.10	-9.97	-653.14	-70.24	-129.43
262	4	0.12	0.44	-36.95	-0.73	2.40	-28.01	-5.20	-587.29	-22.43	-40.98
263	1	0.10	0.13	-35.94	2.21	6.37	7.56	-5.61	-562.28	-195.59	-173.17
263	2	0.43	0.14	-35.02	3.89	5.78	12.41	-3.05	-548.40	-320.83	-238.41
263	3	0.27	0.53	-36.46	1.08	-1.21	-41.39	-13.07	-714.55	-166.88	-250.52
263	4	0.00	0.48	-38.25	0.34	1.01	-40.17	-11.04	-704.87	-86.54	-149.74
264	1	0.06	0.16	-32.90	3.42	7.57	18.79	0.98	-518.46	-355.08	-231.93
264	2	0.39	0.18	-30.12	3.94	6.31	17.09	9.88	-449.83	-487.59	-242.48
264	3	0.14	0.66	-30.83	2.75	-1.26	-34.18	-16.40	-734.80	-329.90	-388.01
264	4	-0.11	0.59	-34.46	2.23	0.42	-41.05	-13.29	-763.32	-201.42	-286.59
265	1	0.36	0.12	-0.73	-28.66	-1.74	0.88	0.03	-616.57	-189.43	-9.70
265	2	0.90	0.10	-0.23	-26.45	-0.48	3.38	-1.64	-675.33	-199.84	75.86
265	3	1.21	0.37	0.58	-26.06	1.53	2.61	0.57	-721.43	-263.67	180.34
265	4	0.76	0.46	1.06	-27.01	-0.49	1.47	0.57	-634.10	-261.39	117.46
266	1	0.30	0.09	0.00	-24.40	0.60	3.54	4.17	-739.03	-218.67	146.38
266	2	0.85	0.07	-1.33	-19.89	1.35	4.37	4.13	-822.50	-256.55	236.01
266	3	1.01	0.27	-2.19	-16.89	3.53	5.03	8.42	-923.91	-295.35	302.80
266	4	0.54	0.32	0.74	-22.94	2.43	5.90	1.47	-806.64	-274.41	234.11
267	1	0.25	0.07	-4.21	-15.33	0.52	1.73	10.25	-884.79	-269.27	284.67
267	2	0.80	0.06	-2.49	-11.16	-3.57	-4.87	11.53	-893.64	-212.62	284.95
267	3	0.83	0.22	-8.89	-7.24	-3.21	-1.85	11.58	-990.80	-179.33	263.16
267	4	0.35	0.24	-5.56	-10.61	1.94	2.52	11.86	-990.13	-265.12	311.68
268	1	0.27	0.16	-0.92	-27.31	11.43	14.38	-9.88	-730.49	-238.29	111.07
268	2	0.66	0.13	-1.86	-21.15	12.01	14.40	3.09	-880.57	-217.74	137.22
268	3	0.89	0.47	-6.76	-11.40	10.36	-35.19	17.60	-1132.09	-209.80	367.30
268	4	0.57	0.59	-4.62	-18.57	12.78	-28.33	22.06	-862.54	-291.24	388.67
269	1	0.24	0.10	-2.39	-18.28	9.98	10.65	11.60	-969.11	-244.14	235.60
269	2	0.65	0.08	-5.73	-10.03	6.79	-0.29	10.73	-1120.22	-209.42	239.60
269	3	0.78	0.30	-7.83	-2.16	4.22	-22.97	10.41	-1431.82	-130.06	299.48
269	4	0.44	0.37	-5.88	-7.77	7.83	-32.52	15.94	-1219.83	-227.63	429.48
270	1	0.20	0.07	-7.18	-6.55	2.57	0.25	14.66	-1146.62	-211.11	287.60
270	2	0.52	0.06	-9.95	-4.43	-3.85	0.72	10.83	-1103.74	-112.60	175.62
270	3	0.64	0.23	-10.39	-0.65	-2.06	18.81	3.85	-1250.48	-27.05	57.48
270	4	0.29	0.25	-8.05	-2.41	2.45	-7.96	9.24	-1397.24	-116.56	287.20
271	1	0.20	0.06	-8.68	-12.22	-8.82	-2.45	10.68	-821.78	-149.37	206.16
271	2	0.35	0.07	-7.69	-17.47	-10.54	-7.10	7.15	-681.71	-88.21	90.27
271	3	0.63	0.24	-8.17	-13.88	-12.07	-1.75	8.72	-692.26	-62.30	55.48
271	4	0.17	0.21	-10.00	-8.74	-8.33	1.14	11.10	-869.20	-115.02	139.13
272	1	0.15	0.07	-5.89	-21.45	-9.24	-4.75	5.06	-614.25	-116.85	12.54
272	2	0.70	0.09	-4.40	-24.66	-7.27	-1.83	4.28	-525.72	-136.84	-78.12
272	3	0.96	0.32	-3.13	-24.27	-9.22	-1.37	1.69	-504.64	-85.30	-79.86
272	4	0.61	0.27	-6.06	-19.94	-12.19	-2.95	5.94	-566.04	-70.79	9.45
273	1	0.10	0.10	-3.66	-25.74	-5.33	-0.80	2.37	-618.67	-118.03	-138.88
273	2	0.64	0.32	-2.89	-26.61	-3.51	1.37	3.24	-598.77	-168.19	-87.57
273	3	0.24	0.46	-1.53	-25.53	-4.68	3.46	3.47	-479.48	-154.67	-106.58
273	4	0.21	0.37	-2.93	-26.13	-7.39	2.94	2.28	-490.07	-79.95	-119.14
274	1	0.16	0.06	-12.06	-4.42	-7.31	6.61	10.28	-908.27	-100.62	155.79

274	2	0.58	0.07	-11.10	-9.56	-12.58	4.57	12.00	-605.96	-47.58	36.95
274	3	0.49	0.25	-13.89	-4.15	-7.66	50.07	13.06	-670.93	-19.49	-76.61
274	4	0.14	0.23	-12.46	-0.63	-2.71	32.69	5.37	-1031.94	-43.36	62.88
275	1	0.12	0.08	-11.56	-11.86	-15.44	1.85	7.91	-527.49	-51.34	42.85
275	2	0.53	0.10	-7.95	-19.60	-16.47	-7.08	8.28	-453.18	-3.41	-17.98
275	3	0.33	0.37	-12.83	-10.21	-12.96	52.02	19.34	-306.42	-22.23	-63.80
275	4	-0.01	0.30	-15.50	-4.32	-9.67	55.13	14.23	-524.31	-25.89	-43.18
276	1	0.07	0.13	-7.61	-20.23	-16.46	-10.85	1.52	-431.48	-16.61	-5.78
276	2	0.46	0.16	-5.45	-24.51	-14.42	-7.78	-3.92	-397.93	-66.40	-31.28
276	3	0.16	0.59	-9.18	-18.50	-15.18	35.64	22.74	-131.92	1.24	-15.41
276	4	-0.16	0.47	-13.47	-12.72	-14.27	48.34	18.82	-228.03	13.01	-25.64
277	1	0.29	0.16	-26.37	-1.19	2.67	1.26	-1.08	-197.02	-577.11	59.16
277	2	0.74	0.14	-27.07	0.26	2.38	0.93	-2.35	-265.98	-450.73	-1.73
277	3	1.00	0.53	-28.17	1.02	4.06	6.33	-2.18	-250.44	-299.75	18.47
277	4	0.63	0.58	-27.55	-1.67	4.93	6.67	-4.10	-190.94	-423.63	74.64
278	1	0.25	0.13	-27.56	1.12	2.06	1.88	-2.93	-326.64	-367.77	-66.69
278	2	0.69	0.12	-27.65	2.25	1.47	1.99	-1.56	-391.04	-180.43	-149.22
278	3	0.83	0.47	-28.45	2.38	1.29	4.43	-3.58	-333.09	-132.23	-103.82
278	4	0.45	0.50	-29.07	2.07	3.19	2.85	-1.12	-317.78	-226.48	-54.02
279	1	0.20	0.12	-26.46	2.22	0.90	4.07	-2.17	-376.99	-144.81	-130.19
279	2	0.65	0.12	-22.95	1.23	0.26	6.09	-1.40	-441.56	-130.95	-236.69
279	3	0.68	0.44	-23.41	0.95	-1.01	8.11	-2.68	-426.96	-100.16	-208.54
279	4	0.29	0.45	-27.05	1.96	0.05	4.96	-4.69	-384.07	-76.43	-142.88
280	1	0.22	0.18	-29.64	3.22	-1.92	-10.23	3.82	-203.87	-259.01	110.09
280	2	0.54	0.16	-30.35	2.77	-3.83	-10.75	-3.18	-232.00	-158.07	22.01
280	3	0.72	0.59	-32.32	1.36	1.27	41.73	-15.25	-43.82	-10.73	-15.50
280	4	0.46	0.66	-31.51	1.45	3.85	36.37	-20.67	-31.62	-59.02	29.45
281	1	0.19	0.14	-30.25	2.80	-2.78	-4.90	-6.75	-256.94	-54.45	-49.41
281	2	0.52	0.13	-28.89	1.53	-4.07	0.26	-6.68	-274.26	-45.86	-77.19
281	3	0.62	0.48	-30.89	0.06	-0.37	39.13	-10.32	-164.87	14.65	-33.38
281	4	0.35	0.53	-32.00	0.38	2.14	40.94	-13.68	-79.46	8.60	-10.50
282	1	0.16	0.12	-27.33	1.13	-2.53	4.15	-7.58	-339.65	-36.00	-129.11
282	2	0.50	0.12	-23.65	-0.18	-3.23	8.47	-5.36	-395.30	-75.50	-180.66
282	3	0.51	0.44	-25.95	-0.56	-2.07	29.51	-3.59	-395.57	-26.02	-72.30
282	4	0.23	0.45	-29.41	-0.09	0.13	34.99	-9.26	-246.41	-14.84	-29.65
283	1	0.17	0.12	-18.96	0.17	-0.12	8.52	-1.34	-441.22	-136.08	-236.52
283	2	0.62	0.12	-12.93	-1.21	-0.67	9.70	0.41	-400.87	-243.74	-212.66
283	3	0.53	0.45	-14.49	-0.84	-1.83	10.01	0.46	-458.94	-243.09	-239.17
283	4	0.14	0.44	-19.78	-0.02	-1.54	9.39	-3.66	-458.99	-116.62	-227.33
284	1	0.12	0.12	-8.67	-1.79	-1.09	9.53	0.62	-446.57	-364.14	-278.90
284	2	0.58	0.13	-3.89	-2.01	-1.83	7.26	2.80	-385.59	-330.31	-135.60
284	3	0.37	0.50	-6.21	-0.88	-2.02	9.02	3.18	-409.63	-380.51	-234.85
284	4	-0.02	0.47	-10.60	-1.09	-1.94	11.13	-0.11	-443.67	-309.29	-261.63
285	1	0.08	0.14	-1.03	-1.67	-2.37	8.42	4.02	-327.39	-392.96	-45.77
285	2	0.53	0.16	1.97	-0.51	-2.78	6.54	7.50	-254.24	-489.67	34.75
285	3	0.19	0.59	-0.22	0.84	-2.28	9.21	3.49	-312.82	-519.86	-105.59
285	4	-0.18	0.53	-3.24	-0.18	-2.11	10.01	3.09	-387.73	-465.67	-183.20
286	1	0.13	0.12	-20.50	-0.44	-1.87	10.14	-5.38	-486.94	-90.95	-189.60
286	2	0.47	0.12	-15.56	-1.05	-2.14	12.03	-1.73	-525.08	-173.25	-233.68
286	3	0.39	0.45	-17.85	-0.93	-2.76	18.56	0.54	-636.14	-72.66	-156.63
286	4	0.12	0.44	-23.08	-0.59	-1.47	24.78	-3.85	-508.00	-25.21	-75.89
287	1	0.10	0.13	-12.10	-0.89	-1.19	11.49	-1.79	-563.10	-206.29	-231.88
287	2	0.33	0.14	-7.79	-0.60	-1.18	12.57	0.62	-563.06	-331.92	-283.43
287	3	0.27	0.53	-9.72	-0.70	-2.17	10.96	2.35	-763.81	-185.17	-281.93
287	4	0.80	0.48	-14.58	-0.94	-2.09	15.53	-0.41	-724.68	-94.43	-172.77
288	1	0.06	0.16	-5.56	0.50	-0.61	11.37	0.53	-542.60	-347.79	-255.48
288	2	0.39	0.18	-2.38	2.11	-0.62	11.81	3.40	-475.57	-472.17	-243.52
288	3	0.14	0.67	-3.61	0.93	-0.70	7.94	1.37	-795.67	-346.51	-416.28
288	4	0.12	0.59	-7.02	-0.07	-1.16	10.10	1.31	-826.78	-218.65	-31
289	1	0.36	0.13	1.19	3.40	2.62	6.97	-9.94	-547.89	-218.43	-29.53
289	2	0.90	0.10	4.77	4.60	1.66	6.09	-11.06	-614.42	-223.99	62.95
289	3	1.21	0.38	5.11	2.16	0.99	4.17	-10.28	-679.77	-290.35	173.02
289	4	0.77	0.47	2.55	1.47	1.84	3.92	-8.59	-586.81	-288.64	113.01
290	1	0.30	0.09	6.83	4.93	1.04	4.23	-11.62	-675.28	-238.43	138.79
290	2	0.85	0.08	8.68	4.50	0.55	-0.33	-11.25	-753.04	-271.12	231.89
290	3	1.01	0.28	8.51	2.32	0.09	-1.62	-7.72	-875.23	-308.41	303.58
290	4	0.54	0.33	7.07	2.55	0.24	1.74	-11.20	-761.27	-297.02	227.80
291	1	0.25	0.07	8.62	3.32	0.82	-4.19	-7.39	-800.75	-253.16	290.96
291	2	0.80	0.06	5.09	2.00	1.53	-10.29	-4.61	-820.95	-209.84	348.13
291	3	0.83	0.24	4.90	0.93	1.55	-11.72	-4.54	-912.02	-174.81	292.85
291	4	0.35	0.25	8.23	1.41	0.64	-5.51	-4.03	-928.86	-259.91	326.01
292	1	0.27	0.16	2.11	0.00	2.00	8.81	-10.37	-714.13	-264.75	125.66
292	2	0.66	0.13	4.89	0.97	1.61	8.28	-8.47	-862.27	-243.12	151.09
292	3	0.89	0.48	5.04	-0.11	-0.05	-0.99	-2.09	-1169.99	-228.96	387.28
292	4	0.37	0.60	1.87	-1.13	1.02	2.97	-5.18	-906.56	-318.36	418.39
293	1	0.24	0.10	6.96	0.92	0.95	4.68	-7.46	-947.78	-270.52	245.01
293	2	0.65	0.08	8.28	1.13	0.94	-0.59	-5.03	-1091.04	-207.43	246.45
293	3	0.78	0.31	8.30	0.21	-0.43	-12.95	1.29	-1442.96	-134.73	311.69
293	4	0.44	0.38	6.85	0.09	-0.94	-5.57	-0.77	-1250.53	-237.34	441.30
294	1	0.20	0.07	7.96	0.63	0.94	-6.81	-2.00	-1110.23	-226.91	305.30
294	2	0.62	0.06	4.65	0.72	1.69	-13.42	-2.60	-1026.93	-92.19	208.39
294	3	0.63	0.24	4.50	0.19	0.77	-24.42	-1.66	-1200.53	-19.70	79.17
294	4	0.29	0.26	7.80	0.12	-0.27	-17.03	2.21	-1394.98	-123.14	286.77
295	1	0.20	0.06	-0.10	1.07	1.92	-11.99	-1.06	-742.57	-98.69	272.24
295	2	0.75	0.07	-5.70	-0.46	1.63	-9.18	1.18	-587.25	-89.64	219.81
295	3	0.65	0.25	-4.97	0.43	1.45	-10.29	-2.05	-542.69	-133.65	194.02
295	4	0.17	0.24	0.25	0.97	1.99	-13.25	0.45	-789.58	-69.69	233.60
296	1	0.15	0.08	-8.24	-2.40	1.29	-7.08	4.63	-654.81	-245.64	9.76
296	2	0.70	0.09	-8.77	-4.57	1.86	-0.59	2.94	-544.31	-157.91	-61.04
296	3	0.46	0.33	-8.45	-3.23	0.45	-5.14	2.45	-471.77	-125.08	-81.12
296	4	-0.01	0.28	-7.47	-1.05	0.73	-9.34	2.55	-626.07	-61.61	101.70
297	1	0.10	0.10	-7.72	-5.53	2.53	2.36	1.49	-521.73	-282.28	-106.14
297	2	0.64	0.13	-4.61	-5.89	3.37	6.00	-2.38	-541.03	-271.51	-117.50
297	3	0.23	0.47	-6.30	-6.85	2.00	-0.67	-3.34	-380.08	-278.28	-102.18
297	4	-0.21	0.38	-8.00	-5.06	1.02	-2.24	0.02	-413.17	-199.10	-104.41
298	1	0.16	0.06	0.74	0.35	1.98	-15.12	-0.49	-815.97	-107.22	225.19
298	2	0.58	0.07	-4.28	0.49	1.72	-12.17	-2.10	-489.60	-35.01	48.64
298	3	0.49	0.26	-3.63	0.07	0.54	-23.84	-4.66	-542.30	7.73	-42.70
298	4	0.14	0.24	1.24	0.08	0.89	-26.02	0.70	-909.15	-50.79	77.81
299	1	0.32	0.08	-6.70	-0.36	1.48	-8.29	0.99	-503.95	12.91	99.97
299	2	0.53	0.10	-8.13	-1.90	0.69	-5.00	2.03	-391.26	-78.50	-2.06
299	3	0.32	0.38	-7.68	-0.72	-1.30	-15.38	-4.68	-150.95	-10.87	8.72
299	4	-0.01	0.31	-5.83	0.35	0.20	-22.47	-3.46	-358.24	-4.33	13.42
300	1	0.07	0.13	-7.29	-3.98	0.50	-2.47	1.06	-372.05	-61.17	-25.30
300	2	0.46	0.16	-6.76	-7.03	-0.23	-1.36	-1.24	-316.95	-175.37	-83.94
300	3	0.16	0.34	-8.01	-4.52	-3.59	-8.83	-2.01	-51.45	-41.19	-22.99
300	4	0.16	0.38	-8.21	-1.54	-1.73	-12.37	-2.38	-72.12	6.32	-17.68
301	1	0.13	0.21	4.98	1.04	-2.51	7.83	10.00	-189.15	-570.74	83.09
301	2	0.47	0.21	7.51	2.18	-1.58	10.58	13.02	-105.33	-593.51	63.39
301	3	0.37	0.79	10.86	6.25	-1.06	13.83	8.74	-122.07	-578.11	-14.64
301	4	0.13	0.79	-6.74	4.95	-1.73	12.84	7.04	-171.82	-607.64	-24.67
302	1	0.39	0.81	-9.24	2.80	-0.46	6.42	14.65	-83.28	-582.01	-31.05
302	2	0.62	0.81	-11.11	1.72	0.10	11.16	8.81	-62.72	-559.51	-60.10
302	3	0.32	0.79	15.88	7.75	0.80	10.54	5.70	-71.22	-515.32	-28.65
302	4	0.09	0.79	13.39	7.19	-0.34	9.77	7.14	-98.87	-543.26	-20.06
303	1	0.09	0.91	10.28	4.65	1.47	4.01	0.94	-23.72	-546.34	16.00

303	2	0.33	0.21	-11.27	-4.92	1.38	-8.92	-22.42	40.03	-550.85	-18.07
303	3	0.33	0.79	-15.68	-9.30	0.58	-14.28	-9.08	-46.39	-499.28	40.51
303	4	0.09	0.79	-12.85	-9.20	0.58	-13.24	-0.65	-24.29	-478.64	58.59
304	1	0.09	0.21	9.20	3.79	1.70	-9.53	20.36	-6.47	-516.31	-39.69
304	2	0.35	0.21	7.58	3.07	1.87	-7.97	-4.99	0.74	-512.18	-77.29
304	3	0.35	0.79	6.15	6.61	0.75	-18.16	-0.47	15.27	-456.68	-96.78
304	4	0.09	0.79	10.08	7.02	0.64	-18.79	9.49	2.35	-449.47	-74.76
305	1	0.09	0.21	-5.48	-1.90	1.21	-6.16	-2.04	11.48	-474.20	127.56
305	2	0.33	0.21	-6.48	-2.32	0.64	-4.99	-6.48	12.73	-467.61	97.57
305	3	0.33	0.79	-4.08	-3.25	0.15	-5.58	-1.95	27.86	-412.35	113.86
305	4	0.09	0.79	-3.16	-3.16	0.60	-4.81	-6.65	34.94	-394.03	126.64
306	1	0.23	0.21	5.23	1.61	-0.64	-1.01	-4.54	-5.42	-480.05	-122.49
306	2	0.86	0.21	3.84	1.39	-1.96	0.17	8.27	25.80	-240.52	-269.13
306	3	0.86	0.79	2.73	1.82	-2.08	0.37	-2.58	-5.00	-316.55	-121.15
306	4	0.23	0.79	3.22	2.30	-1.04	-1.15	-6.09	32.14	-431.34	-146.76
307	1	0.30	0.17	2.25	0.14	-2.22	-8.42	-6.22	41.88	-230.31	85.52
307	2	1.10	0.05	3.33	-1.17	-3.32	8.99	-2.80	7.14	-474.23	-54.64
307	3	1.10	0.63	1.44	-0.36	-3.05	1.96	6.77	24.14	-418.86	-4.58
307	4	0.30	0.75	-1.97	0.43	-3.37	-5.11	-1.88	1.17	-350.77	-40.96
308	1	0.18	0.21	-27.07	-4.16	2.05	4.55	3.28	-116.49	-740.31	104.38
308	2	0.67	0.21	-26.31	-3.09	3.10	2.76	-2.41	-147.35	-660.88	93.07
308	3	0.67	0.79	-25.99	-4.55	4.70	3.26	-2.69	-178.59	-673.98	77.36
308	4	0.18	0.79	-26.66	-6.25	2.72	5.90	3.19	-188.15	-689.70	84.86
309	1	0.21	0.21	-29.99	-4.77	0.72	-2.12	-2.95	20.83	-489.51	-9.87
309	2	0.78	0.21	-28.48	-5.13	1.23	3.03	-3.83	-51.82	-584.57	62.06
309	3	0.78	0.79	-28.22	-6.59	1.55	7.38	-4.51	-210.48	-606.81	104.59
309	4	0.21	0.79	-33.18	-8.27	0.99	7.68	-2.17	-257.80	-696.66	97.32
310	1	0.21	0.34	1.22	10.54	-1.73	-2.07	12.86	-237.99	-22.30	-153.14
310	2	0.79	0.34	2.67	9.57	-2.31	-2.09	14.65	-140.49	19.82	-324.64
310	3	0.79	1.28	7.46	27.41	-1.90	44.12	22.23	-558.36	-3.30	-68.91
310	4	0.21	1.28	0.55	25.09	-1.43	-10.90	9.64	-453.60	24.02	-125.45
311	1	0.21	0.29	-2.37	-11.32	-0.78	-0.33	15.24	-408.45	22.39	-0.02
311	2	0.79	0.29	-1.96	-11.74	-0.68	-1.68	13.22	-428.18	-11.16	-50.56
311	3	0.79	1.09	0.44	0.12	-0.83	-3.99	18.43	-96.57	27.12	162.35
311	4	0.21	1.09	0.40	0.19	-0.82	9.00	16.47	-219.69	-27.53	-32.64
312	1	0.21	0.32	-4.80	-23.08	-0.04	-0.07	5.52	-396.68	15.68	-6.84
312	2	0.79	0.32	-4.69	-23.33	-0.01	-0.94	5.61	-391.97	8.16	-18.04
312	3	0.79	1.19	-3.32	-17.92	-0.18	1.87	7.19	-385.60	4.94	-6.02
312	4	0.21	1.19	-3.81	-17.79	-0.32	-0.02	6.02	-341.42	18.74	-16.38
313	1	0.21	0.28	-4.76	-22.74	0.37	-0.27	-2.74	-387.22	10.09	2.30
313	2	0.79	0.28	-4.72	-22.89	0.36	-0.14	-2.85	-384.26	4.58	0.61
313	3	0.79	1.06	-5.04	-24.57	0.27	-0.54	-1.40	-373.55	6.73	-3.10
313	4	0.21	1.06	-5.04	-24.40	0.24	0.52	-1.36	-391.13	10.86	-8.81
314	1	0.30	0.21	1.79	0.71	-3.94	3.63	-10.06	-13.84	-372.30	-67.74
314	2	1.10	0.21	0.87	0.03	-2.88	-7.85	9.26	7.68	-438.25	12.56
314	3	1.10	0.79	0.39	0.00	-3.72	0.43	8.46	-11.11	-450.82	-0.84
314	4	0.30	0.79	1.00	0.37	-4.07	-0.87	-8.27	-5.44	-418.36	-39.33
315	1	0.23	0.21	1.81	2.17	-1.77	-2.52	-7.07	51.12	-399.13	-147.25
315	2	0.86	0.21	1.61	0.98	-2.38	-4.35	7.00	-6.18	-387.91	-80.74
315	3	0.86	0.79	0.98	0.66	-2.89	-1.45	5.98	11.65	-428.60	-82.31
315	4	0.23	0.79	1.00	2.05	-3.00	-2.13	-6.44	32.24	-413.58	-119.00
316	1	0.09	0.21	-2.27	-3.59	-0.37	-4.13	-3.54	30.81	-431.50	115.13
316	2	0.33	0.21	-3.26	-4.17	-0.36	-7.27	3.79	32.01	-395.73	120.54
316	3	0.33	0.79	-2.16	-3.90	-1.31	-8.38	13.40	30.34	-401.79	138.40
316	4	0.09	0.79	-1.25	-3.41	-2.09	-5.37	-6.59	42.42	-428.84	132.90
317	1	0.09	0.21	10.32	8.25	-0.18	-21.30	1.03	1.55	-419.86	-107.92
317	2	0.35	0.21	5.30	7.73	-0.10	-19.83	6.01	19.45	-423.74	-117.82
317	3	0.35	0.79	4.49	8.79	-1.39	-20.73	11.16	19.72	-430.69	-142.74
317	4	0.09	0.79	9.69	9.46	-1.47	-24.29	-11.44	0.20	-415.87	-151.75
318	1	0.09	0.21	-13.32	-10.84	-0.10	-17.14	-4.92	-25.08	-449.61	97.55
318	2	0.33	0.21	-17.20	-11.49	-0.08	-17.38	-3.95	-52.02	-473.67	85.45
318	3	0.33	0.79	-17.20	-12.76	-1.14	-20.41	10.78	-60.93	-464.28	163.41
318	4	0.09	0.79	-12.85	-12.54	-1.16	-17.15	-11.81	-25.29	-440.19	157.62
319	1	0.09	0.21	15.02	8.88	-0.70	9.87	3.97	-106.66	-545.85	-75.73
319	2	0.32	0.21	17.65	9.63	-0.30	9.78	7.91	-71.72	-498.42	-80.86
319	3	0.32	0.79	17.86	11.35	-0.87	10.92	10.31	-91.84	-493.82	-164.62
319	4	0.09	0.79	14.91	10.57	-1.39	9.35	-3.27	-132.08	-550.97	-165.72
320	1	0.13	0.21	7.40	7.18	-1.30	13.00	3.65	-194.98	-628.96	-96.43
320	2	0.47	0.21	12.23	8.42	-0.92	15.29	6.65	-147.19	-578.35	-75.90
320	3	0.47	0.79	11.99	9.94	-1.17	16.25	3.29	-152.90	-594.83	-176.39
320	4	0.13	0.79	6.80	9.01	-1.09	11.96	-0.26	-236.32	-685.67	-193.81
321	1	0.18	0.21	-25.89	-8.12	3.81	6.07	4.86	-256.02	-756.15	57.01
321	2	0.67	0.21	-24.73	-5.91	6.47	4.96	-0.38	-175.43	-607.27	61.20
321	3	0.67	0.79	-22.32	-6.89	8.72	5.31	0.32	-158.81	-676.10	-32.08
321	4	0.18	0.79	-24.69	-8.92	5.53	9.31	12.10	-293.34	-753.47	-103.50
322	1	0.21	0.21	-34.68	-9.71	0.97	18.34	4.09	-427.27	-744.22	-71.27
322	2	0.78	0.21	-28.42	-7.65	2.31	9.84	-1.32	-339.26	-528.31	47.57
322	3	0.78	0.79	-27.72	-7.89	3.18	10.71	2.34	-391.86	-584.22	-84.95
322	4	0.21	0.79	-34.31	-10.05	0.91	14.74	3.67	-480.55	-820.20	-16.66
323	1	0.21	0.34	4.27	9.38	-1.54	0.82	18.58	-670.45	-62.64	-320.67
323	2	0.79	0.34	4.66	9.23	-0.49	0.34	18.97	-558.91	-1.52	-140.82
323	3	0.79	1.28	9.80	28.55	-0.50	23.89	24.77	-486.24	-28.75	-185.49
323	4	0.21	1.28	10.14	28.41	-1.00	-22.14	30.01	-452.61	6.22	-110.99
324	1	0.21	0.29	-1.80	-12.07	-0.54	-0.71	14.25	-342.98	0.73	-47.15
324	2	0.79	0.29	-1.65	-12.05	-0.13	-1.11	15.06	-364.57	-25.14	10.17
324	3	0.79	1.09	1.56	-0.54	-0.09	-9.97	15.71	-573.59	16.75	-24.55
324	4	0.21	1.09	1.09	-0.13	-0.70	9.64	14.71	-689.12	-50.63	170.84
325	1	0.21	0.32	-4.64	-23.46	0.09	-0.17	5.41	-372.53	-4.71	-16.94
325	2	0.79	0.32	-4.67	-23.60	0.20	-1.33	5.27	-368.97	-9.97	-3.03
325	3	0.79	1.19	-3.38	-18.43	0.08	2.59	7.14	-427.36	-17.03	-8.71
325	4	0.21	1.19	-3.31	-18.11	-0.08	-1.31	7.69	-383.02	-7.93	-4.96
326	1	0.21	0.28	-4.71	-23.00	0.37	-0.37	-2.73	-375.88	2.72	0.80
326	2	0.79	0.28	-4.73	-23.12	0.41	-0.11	-2.86	-373.77	-1.48	2.54
326	3	0.79	1.06	-5.00	-24.80	0.35	-0.81	-1.31	-372.88	-3.18	-6.89
326	4	0.21	1.06	-4.98	-24.68	0.31	0.88	-1.47	-389.22	-0.86	-2.02
327	1	0.30	0.21	0.48	0.00	-4.22	-2.19	-6.52	6.05	-451.82	-29.16
327	2	1.10	0.21	-0.01	-0.19	-3.28	-0.35	8.15	-4.93	-455.97	-6.96
327	3	1.10	0.79	0.02	-0.39	-3.29	0.15	8.05	1.36	-467.37	-4.35
327	4	0.30	0.79	0.46	-0.29	-4.28	-0.97	-6.12	5.28	-478.79	-30.76
328	1	0.23	0.21	1.04	1.62	-3.89	-2.42	-6.18	20.64	-446.63	-103.24
328	2	0.86	0.21	0.93	0.61	-3.52	0.00	4.91	17.27	-449.03	-21.64
328	3	0.86	0.79	0.95	0.03	-3.93	-1.90	5.75	7.60	-485.50	-54.64
328	4	0.23	0.79	1.67	0.75	-4.69	-1.70	-6.52	10.33	-489.81	-99.81
329	1	0.09	0.21	-1.09	-3.03	-3.34	-4.34	-6.05	33.32	-441.67	135.04
329	2	0.31	0.21	-1.90	-3.38	-2.10	-5.86	21.27	27.91	-425.22	149.21
329	3	0.31	0.79	-2.62	-1.64	-2.86	-3.81	29.13	11.68	-488.93	157.92
329	4	0.09	0.79	-1.95	-1.18	-4.21	-1.67	-6.61	13.53	-494.54	125.73
330	1	0.09	0.21	8.34	8.68	-2.73	-22.55	-26.54	0.43	-438.31	-191.29
330	2	0.35	0.21	3.86	7.79	-2.72	-20.19	18.49	16.62	-455.82	-168.26
330	3	0.35	0.79	3.66	3.85	-4.20	-10.09	22.41	5.30	-532.57	-185.66
330	4	0.09	0.79	5.70	9.18	-4.21	-10.45	-43.43	-0.96	-522.50	-232.36
331	1	0.09	0.21	-11.55	-12.26	-2.25	-17.29	-14.46	-34.86	-464.15	-267.90
331	2	0.33	0.21	-15.39	-12.82	-2.12	-21.30	22.32	-67.34	-483.84	-221.12
331	3	0.33	0.79	-9.10	-6.62	-3.52	-12.78	49.11	-39.52	-537.42	315.88
331	4	0.09	0.79	-7.55	-6.55	-3.73	-10.22	-14.49	-27.54	-545.81	266.61
332	1	0.09	0.21	11.20	10.13	-1.99	9.91	-11.50	-133.27	-558.57	-247.77

332	2	0.32	0.21	15.85	10.94	-1.30	12.76	10.51	-93.11	-504.25	-233.51
332	3	0.32	0.79	9.48	6.58	-1.84	8.08	5.75	-91.57	-545.32	-333.75
332	4	0.09	0.79	8.03	5.99	-2.69	4.89	-22.60	-124.43	-573.67	-334.42
333	1	0.13	0.21	5.60	8.93	-1.40	11.43	-6.10	-235.96	-728.24	-271.64
333	2	0.47	0.21	10.20	9.76	-1.46	14.41	-0.84	-176.09	-619.96	-254.80
333	3	0.47	0.79	5.93	5.40	-1.78	9.02	-7.55	-169.99	-633.21	-318.63
333	4	0.13	0.79	3.41	5.15	-1.98	6.77	-12.80	-127.89	-739.01	-358.82
334	1	0.18	0.21	-23.63	-8.59	6.08	9.13	10.40	-292.14	-727.04	-169.20
334	2	0.67	0.21	-19.80	-7.53	9.51	8.25	2.55	-156.65	-677.83	-117.04
334	3	0.67	0.79	-16.22	-7.67	7.79	10.12	2.74	-195.76	-767.46	-291.47
334	4	0.18	0.79	-22.87	-6.72	5.83	7.65	14.20	-259.34	-708.37	-289.30
335	1	0.21	0.21	-33.32	-8.78	1.72	10.57	12.68	-437.36	-633.86	-107.85
335	2	0.78	0.21	-27.08	-7.27	3.73	10.30	4.12	-379.17	-582.95	-173.97
335	3	0.78	0.79	-26.67	-5.88	3.58	8.72	4.33	-310.55	-530.34	-268.92
335	4	0.21	0.79	-31.87	-6.64	1.55	12.17	7.15	-398.92	-576.35	-104.00
336	1	0.21	0.34	4.10	9.08	0.30	-4.26	18.08	-506.20	27.30	-92.95
336	2	0.79	0.34	2.85	9.03	0.95	-4.67	17.04	-442.66	38.75	-100.06
336	3	0.79	1.28	7.22	25.95	0.06	21.75	24.93	-443.68	20.84	-218.32
336	4	0.21	1.28	8.88	27.84	-0.26	-27.62	21.80	-500.75	-24.89	-235.67
337	1	0.21	0.29	-1.79	-12.11	0.20	-0.70	14.66	-434.05	-35.54	26.86
337	2	0.79	0.29	-2.30	-12.40	0.49	-1.22	14.03	-420.27	8.24	-7.53
337	3	0.79	1.09	0.26	-0.64	0.58	-8.23	14.37	-454.04	30.11	-57.68
337	4	0.21	1.09	1.28	-0.66	0.20	9.77	16.50	-502.14	37.38	-63.98
338	1	0.21	0.32	-4.73	-23.68	0.27	0.38	5.25	-379.90	-8.71	0.51
338	2	0.79	0.32	-4.87	-23.77	0.36	-0.65	5.38	-375.24	-3.75	-2.78
338	3	0.79	1.19	-3.66	-18.43	0.40	0.94	7.35	-379.39	-6.04	-5.58
338	4	0.21	1.19	-3.47	-18.52	0.28	-2.58	7.07	-371.35	-2.48	-21.59
339	1	0.21	0.28	-4.77	-23.19	0.44	-0.36	-2.92	-369.80	-2.01	4.53
339	2	0.79	0.28	-4.87	-23.26	0.46	-0.10	-2.77	-368.44	-0.25	2.95
339	3	0.79	1.06	-5.17	-24.97	0.41	-1.13	-1.56	-365.89	-1.74	0.61
339	4	0.21	1.06	-5.06	-24.88	0.38	0.52	-1.30	-372.38	-4.70	-2.02
340	1	0.30	0.21	0.49	-0.40	-4.42	-1.07	-6.23	-2.53	-496.07	-30.12
340	2	1.10	0.21	0.02	-0.58	-3.31	-0.62	8.27	-0.70	-475.90	-3.62
340	3	1.10	0.79	0.05	-0.63	-3.34	-0.16	8.68	5.06	-486.41	-5.46
340	4	0.30	0.79	0.56	-0.54	-4.33	0.24	-6.07	-6.82	-521.97	-27.56
341	1	0.23	0.21	2.44	-0.34	-4.85	-2.41	-6.29	-2.49	-521.83	-98.89
341	2	0.86	0.21	1.26	-0.35	-3.99	-1.11	6.23	-3.25	-508.59	-53.25
341	3	0.86	0.79	1.39	-0.86	-3.70	-3.39	5.50	-15.83	-544.35	-66.82
341	4	0.23	0.79	3.51	-1.20	-4.39	-1.52	-5.70	-18.77	-567.34	-100.66
342	1	0.09	0.21	-3.28	0.16	-4.99	-1.15	-6.69	-5.50	-548.53	125.70
342	2	0.33	0.21	-3.73	0.32	-3.01	-2.47	30.65	-4.60	-553.03	159.18
342	3	0.33	0.79	-5.02	2.19	-2.60	0.25	25.90	-25.48	-626.10	153.81
342	4	0.09	0.79	-4.65	2.19	-4.20	-1.22	-7.23	-30.63	-606.23	134.35
343	1	0.09	0.21	3.81	-0.99	-4.50	0.77	-46.21	-3.25	-614.14	-237.39
343	2	0.35	0.21	3.82	-0.93	-4.48	1.69	24.18	-3.73	-610.62	-188.14
343	3	0.35	0.79	4.13	-5.84	-3.71	13.60	22.94	-20.84	-700.36	-177.59
343	4	0.09	0.79	1.01	-6.34	-3.67	14.58	-36.29	-7.65	-712.60	-212.20
344	1	0.09	0.21	-3.09	1.38	-4.09	4.41	-15.61	9.94	-644.03	279.55
344	2	0.33	0.21	-2.77	1.39	-3.91	5.44	53.41	9.34	-640.84	332.47
344	3	0.33	0.79	4.72	9.68	-3.02	17.33	35.99	43.12	-744.47	265.54
344	4	0.09	0.79	1.39	9.04	-3.18	16.28	-17.16	24.58	-749.03	236.89
345	1	0.09	0.21	1.83	-0.70	-3.03	0.88	-29.77	25.91	-582.52	-440.51
345	2	0.32	0.21	2.23	-0.85	-2.10	-0.96	4.53	29.60	-625.06	-380.61
345	3	0.32	0.79	-5.63	-7.62	-1.86	-4.15	11.40	118.54	-722.58	-291.28
345	4	0.09	0.79	-4.63	-7.11	-2.06	-2.79	-17.03	152.99	-683.39	-289.23
346	1	0.13	0.21	1.14	-0.18	-2.29	0.48	-14.99	-181.24	-673.20	-321.57
346	2	0.47	0.21	1.94	-0.11	-2.05	0.66	-9.72	-200.36	-604.10	-389.79
346	3	0.47	0.79	-3.41	-6.82	-2.22	-6.98	-4.74	-84.71	-658.45	-252.15
346	4	0.13	0.79	-1.43	-6.12	-2.26	-4.87	-11.64	-227.68	-615.61	-202[illegible]
347	1	0.18	0.21	-22.90	-4.61	4.61	7.70	8.55	-231.48	-699.03	-286.23
347	2	0.67	0.21	-16.09	-6.18	4.80	10.04	-0.11	-225.18	-809.82	-298.56
347	3	0.67	0.79	-19.00	-3.06	1.47	8.80	-2.04	-242.28	-797.78	-265.15
347	4	0.18	0.79	-23.50	-2.25	2.62	5.74	4.61	-171.01	-689.01	-251.29
348	1	0.21	0.21	-29.70	-4.42	0.85	2.01	11.88	-232.05	-402.18	-272.89
348	2	0.78	0.21	-25.94	-4.40	3.07	5.43	6.63	-203.75	-520.39	-287.57
348	3	0.78	0.79	-25.84	-3.35	2.07	1.47	2.40	-77.50	-494.54	-215.22
348	4	0.21	0.79	-26.72	-2.30	0.86	-4.34	2.21	8.12	-334.46	-175.34
349	1	0.21	0.34	1.06	8.89	1.22	-0.08	14.19	-434.19	39.48	-102.31
349	2	0.79	0.34	-0.32	9.18	0.38	-0.94	11.83	-390.23	47.61	-116.37
349	3	0.79	1.28	-1.36	22.30	0.18	13.82	7.09	-282.65	23.93	-162.45
349	4	0.21	1.28	4.85	24.49	0.65	-39.32	17.75	-304.41	49.89	-218.92
350	1	0.21	0.29	-2.66	-12.33	0.49	-0.10	12.71	-401.08	23.72	-27.98
350	2	0.79	0.29	-3.14	-12.24	0.42	-0.99	14.60	-380.84	18.96	-37.59
350	3	0.79	1.09	-0.76	-0.90	0.29	-6.54	15.89	-376.32	33.00	-75.39
350	4	0.21	1.09	-0.70	-0.68	0.61	3.62	16.99	-417.85	29.32	-61.88
351	1	0.21	0.32	-5.02	-23.81	0.42	-0.05	5.44	-367.66	3.12	-4.06
351	2	0.79	0.32	-5.22	-23.82	0.40	-0.68	5.34	-363.81	5.51	-1.72
351	3	0.79	1.19	-4.39	-18.60	0.43	-0.19	5.79	-369.93	11.56	-13.97
351	4	0.21	1.19	-3.81	-18.44	0.41	-1.50	7.06	-382.54	-0.64	-4.68
352	1	0.21	0.28	-4.95	-23.30	0.47	-0.32	-2.93	-366.21	2.14	3.11
352	2	0.79	0.28	-5.06	-23.36	0.45	-0.17	-2.87	-365.76	6.61	3.53
352	3	0.79	1.06	-5.40	-25.09	0.42	-0.75	-1.49	-367.53	7.85	2.94
352	4	0.21	1.06	-5.31	-25.03	0.42	0.33	-1.52	-369.25	0.54	3.54
353	1	0.30	0.21	0.10	-0.73	-4.21	-1.47	-7.99	1.48	-552.16	-36.00
353	2	1.10	0.21	-0.35	-0.62	-3.84	-1.06	9.31	8.29	-491.07	-0.97
353	3	1.10	0.79	-0.86	-0.24	-2.97	7.82	10.46	-13.48	-503.48	7.46
353	4	0.30	0.79	-0.61	-0.70	-4.08	-6.23	-9.83	8.28	-595.54	-62.44
354	1	0.23	0.21	4.00	-1.64	-3.60	-2.61	-5.81	-35.73	-602.72	-116.23
354	2	0.86	0.21	1.60	-0.22	-3.11	-1.69	7.23	-14.57	-566.11	-77.01
354	3	0.86	0.79	1.31	-0.72	-2.52	1.08	8.41	-5.07	-610.18	-78.70
354	4	0.23	0.79	3.80	-1.60	-2.24	-2.48	-6.18	-61.62	-620.52	-144.36
355	1	0.09	0.21	-5.34	2.78	-3.08	1.05	-7.89	-47.56	-626.34	133.29
355	2	0.33	0.21	-5.65	3.09	-1.94	2.94	18.89	-43.85	-662.12	143.87
355	3	0.33	0.79	-5.62	3.36	-0.83	2.31	7.13	-43.37	-682.54	123.97
355	4	0.09	0.79	-5.21	3.03	-1.06	-0.66	-4.85	-41.33	-630.90	115.09
356	1	0.09	0.21	-0.52	-8.97	-2.68	21.76	-25.24	-7.97	-764.15	-177.16
356	2	0.35	0.21	3.92	-8.31	-2.61	18.75	16.30	-25.94	-742.54	-154.83
356	3	0.35	0.79	4.04	-8.54	-0.90	20.74	12.10	-30.45	-769.93	-127.38
356	4	0.09	0.79	-0.99	-9.54	-1.05	24.30	-5.42	-7.50	-785.18	-121.66
357	1	0.09	0.21	3.65	11.84	-2.39	17.39	-14.98	12.90	-798.57	193.91
357	2	0.33	0.21	8.25	12.08	-2.29	20.98	25.94	50.65	-753.87	211.44
357	3	0.33	0.79	10.01	14.08	-1.16	28.09	11.30	70.26	-804.53	130.34
357	4	0.09	0.79	4.48	13.23	-1.21	22.09	-9.91	25.68	-825.40	125.61
358	1	0.09	0.21	-7.85	-9.70	-2.57	-4.11	-11.17	83.13	-711.28	-219.03
358	2	0.32	0.21	-9.35	-10.09	-1.55	-6.82	11.65	35.84	-739.44	-207.83
358	3	0.32	0.79	-11.38	-11.59	-1.18	-8.49	10.45	99.89	-757.48	-132.45
358	4	0.09	0.79	-4.69	-10.68	-2.13	-3.93	-3.80	168.28	-635.22	-165.18
359	1	0.13	0.21	-3.47	-8.60	-2.13	-4.95	-6.54	-179.46	-713.88	4.23
359	2	0.47	0.21	-6.23	-9.01	-2.18	-9.86	-0.85	-41.04	-747.20	-143.61
359	3	0.47	0.79	-8.02	-10.30	-2.25	-10.62	4.34	-319.72	-714.84	-11.52
359	4	0.13	0.79	-5.45	-9.19	-2.49	-5.78	-1.76	-249.86	-650.72	34.85
360	1	0.18	0.21	-24.39	-1.18	1.91	3.32	3.58	-115.68	-669.66	-156.18
360	2	0.67	0.21	-21.91	-1.26	0.82	1.00	-3.04	-208.21	-766.14	-195.25
360	3	0.67	0.79	-24.96	-0.72	0.86	1.48	-5.53	-168.70	-705.34	-96.82
360	4	0.18	0.79	-25.61	-1.31	1.65	1.84	0.79	-97.64	-650.48	-66.08
361	1	0.21	0.21	-26.60	-1.35	0.77	2.38	0.36	14.66	-340.39	-137.51

361	2	0.78	0.21	-26.22	-3.45	1.38	3.08	-1.97	-81.18	-453.86	-143.22
361	3	0.78	0.79	-26.20	-3.63	1.35	1.98	-0.94	-41.40	-450.70	-76.33
361	4	0.21	0.79	-27.29	-4.01	0.76	1.77	3.97	-3.57	-365.86	-88.83
362	1	0.21	0.34	-0.37	9.14	-0.45	-1.54	19.38	-354.81	46.12	-123.69
362	2	0.79	0.34	-0.30	8.53	-0.57	-2.61	14.85	-331.83	26.93	-123.44
362	3	0.79	1.28	2.23	22.71	-0.60	3.10	14.63	-284.20	24.40	-124.94
362	4	0.21	1.28	-2.76	22.78	-0.68	-2.06	13.58	-276.21	17.56	-143.33
363	1	0.21	0.29	-3.59	-12.45	0.26	-1.28	12.86	-357.51	15.78	-42.59
363	2	0.79	0.29	-3.76	-12.69	-0.08	-1.43	12.47	-329.66	9.99	-44.58
363	3	0.79	1.09	-1.92	-1.41	-0.16	1.54	15.19	-331.13	19.30	-95.49
363	4	0.21	1.09	-2.21	-1.40	0.16	1.99	10.84	-366.61	27.27	-78.63
364	1	0.21	0.32	-5.32	-23.83	0.33	-0.06	5.26	-360.89	8.83	0.61
364	2	0.79	0.32	-5.41	-23.98	0.24	-0.62	5.14	-354.90	18.61	3.31
364	3	0.79	1.19	-4.65	-18.64	0.13	0.17	6.54	-338.98	7.45	-20.05
364	4	0.21	1.19	-4.42	-18.59	0.34	-0.26	7.01	-358.06	12.84	-19.32
365	1	0.21	0.28	-5.12	-23.41	0.44	-0.28	-3.01	-365.90	10.46	4.16
365	2	0.79	0.28	-5.18	-23.49	0.42	-0.05	-2.89	-363.92	14.82	3.97
365	3	0.79	1.06	-5.56	-25.20	0.38	-0.77	-1.62	-365.30	13.12	-0.63
365	4	0.21	1.06	-5.53	-25.15	0.41	0.35	-1.68	-364.40	12.24	1.31
366	1	0.30	0.25	-0.68	-0.12	-3.35	2.46	-1.54	-17.53	-614.72	-35.39
366	2	1.10	0.37	-1.52	0.83	-3.06	-2.31	8.03	-40.86	-524.08	-20.91
366	3	1.10	0.95	-3.92	1.98	-3.05	-8.95	-5.41	-17.58	-384.09	-39.85
366	4	0.30	0.83	-0.69	0.47	-1.99	5.11	-5.03	-53.15	-741.37	90.07
367	1	0.23	0.21	2.74	-1.45	-1.37	-4.00	-5.37	-43.70	-592.99	-144.44
367	2	0.86	0.21	0.35	-1.47	-2.17	-3.79	-1.82	-5.53	-669.16	-114.39
367	3	0.86	0.79	-0.56	-0.66	-1.94	-3.37	9.24	-40.28	-756.42	-266.93
367	4	0.23	0.79	1.03	-0.51	-0.83	-4.23	-4.19	-8.37	-547.66	-119.25
368	1	0.09	0.21	-4.63	2.12	0.20	-0.92	-8.26	-47.88	-675.77	128.49
368	2	0.33	0.21	-5.12	2.05	0.00	0.32	-1.49	-40.17	-668.94	117.20
368	3	0.33	0.79	-2.90	0.70	0.54	-1.74	-5.10	-25.36	-617.36	100.28
368	4	0.09	0.79	-2.52	0.65	0.89	0.88	-2.51	-24.86	-596.79	126.66
369	1	0.09	0.21	-0.26	-6.97	0.48	19.97	11.02	-11.90	-763.64	-78.74
369	2	0.35	0.21	3.79	-6.56	0.53	18.38	4.40	-28.41	-741.43	-99.07
369	3	0.35	0.79	2.30	-1.47	1.68	7.19	-1.83	-15.46	-686.84	-77.88
369	4	0.09	0.79	1.11	-2.04	1.62	5.52	21.94	-12.14	-687.25	-42.46
370	1	0.09	0.21	3.41	10.89	0.37	21.38	-9.31	27.40	-803.15	54.41
370	2	0.33	0.21	8.02	11.41	0.34	25.31	-15.46	62.33	-788.70	31.13
370	3	0.33	0.79	1.72	2.90	1.35	6.69	-28.35	-4.29	-710.78	-28.26
370	4	0.09	0.79	0.31	2.61	1.44	-7.77	-5.46	-3.50	-719.10	11.48
371	1	0.09	0.21	-8.50	-9.39	-1.78	-1.78	10.94	165.82	-716.49	-7.72
371	2	0.32	0.21	-9.49	-9.80	-0.65	-5.11	17.00	124.64	-761.96	-25.80
371	3	0.32	0.79	-2.67	-2.92	-0.25	3.58	17.59	1.20	-710.56	51.98
371	4	0.09	0.79	-7.51	-2.88	-1.35	7.56	18.69	-2.46	-716.54	83.75
372	1	0.13	0.21	-5.77	-7.60	-3.11	-3.64	5.14	-279.17	-582.85	104.35
372	2	0.47	0.21	-2.29	-8.44	-2.52	-7.40	11.07	-392.32	-746.10	146.29
372	3	0.47	0.79	-3.82	-3.48	-2.52	2.35	15.42	-199.38	-702.71	137.45
372	4	0.13	0.79	-4.91	-3.73	-3.55	3.43	9.42	-237.50	-605.93	126.38
373	1	0.18	0.21	-26.23	-1.63	1.61	1.44	1.87	-85.68	-646.73	-15.52
373	2	0.67	0.21	-26.59	-0.94	1.68	0.97	-2.67	-148.69	-674.55	-32.37
373	3	0.67	0.79	-27.54	-1.51	2.86	0.03	-4.48	-143.03	-637.93	55.21
373	4	0.18	0.79	-26.73	-2.27	2.27	0.28	1.89	-82.74	-653.13	47.70
374	1	0.21	0.21	-27.46	-4.08	0.93	1.39	1.27	6.78	-385.65	-64.69
374	2	0.78	0.21	-26.54	-3.89	1.50	0.69	-2.19	-32.24	-466.11	-24.32
374	3	0.78	0.79	-27.27	-4.46	1.80	-2.50	-1.32	-63.48	-505.85	41.98
374	4	0.21	0.79	-27.24	-4.91	0.90	-1.72	2.80	-26.33	-453.12	-43.61
375	1	0.21	0.34	-0.11	8.38	-0.80	0.74	14.44	-326.80	20.52	-129.78
375	2	0.79	0.34	0.30	8.57	-0.87	0.51	19.87	-308.08	27.30	-161.63
375	3	0.79	1.28	1.79	21.08	-0.55	7.54	14.54	-357.44	8.06	-89.27
375	4	0.21	1.28	2.24	22.74	-0.62	0.38	14.58	-309.07	21.37	-110.28
376	1	0.21	0.29	-3.69	-12.80	-0.24	0.31	12.73	-300.88	0.36	-47.04
376	2	0.79	0.29	-3.42	-12.89	-0.50	-0.27	12.84	-265.73	-22.71	-51.21
376	3	0.79	1.09	-1.80	-1.95	-0.60	-1.67	11.40	-265.15	-21.42	-99.83
376	4	0.21	1.09	-1.77	-1.55	-0.40	0.21	15.64	-299.74	6.94	-101.45
377	1	0.21	0.32	-5.42	-24.08	0.17	-0.13	5.17	-358.80	17.63	1.62
377	2	0.79	0.32	-5.35	-24.19	0.10	-0.79	5.16	-359.58	14.82	-2.62
377	3	0.79	1.19	-4.37	-19.03	-0.14	0.82	7.14	-294.31	22.10	13.80
377	4	0.21	1.19	-4.62	-18.77	0.01	-0.05	6.35	-326.18	7.35	-14.79
378	1	0.21	0.28	-5.19	-23.55	0.41	-0.30	-2.88	-365.61	16.58	2.77
378	2	0.79	0.28	-5.17	-23.66	0.40	-0.08	-3.05	-362.20	15.75	0.93
378	3	0.79	1.06	-5.58	-25.44	0.29	-0.46	-1.70	-362.42	18.35	1.01
378	4	0.21	1.06	-5.57	-25.28	0.32	0.64	-1.63	-355.59	17.48	2.37
379	1	0.36	0.08	6.97	0.02	0.38	23.71	4.67	227.94	24.07	-15.17
379	2	1.35	0.08	38.25	-0.48	-7.53	30.71	-31.99	239.00	25.37	-27.30
379	3	1.35	0.32	36.25	-2.49	5.85	30.47	21.36	166.94	-69.77	24.69
379	4	0.36	0.32	8.14	0.33	-0.72	35.08	3.25	178.30	26.00	12.55
380	1	0.32	0.08	-24.23	-0.57	-0.07	12.27	3.67	212.02	9.12	-11.65
380	2	1.19	0.08	-8.35	0.88	0.71	15.64	2.30	222.04	-32.08	25.46
380	3	1.19	0.32	-9.25	1.12	-1.96	20.30	-9.51	186.81	-5.06	-28.14
380	4	0.32	0.32	-23.72	-0.47	-0.65	21.54	2.32	196.97	8.31	8.97
381	1	0.28	0.08	31.09	-0.11	-1.25	3.37	5.87	206.01	-3.18	-4.83
381	2	1.06	0.08	36.03	0.02	-0.25	1.67	-3.41	197.31	1.23	11.55
381	3	1.06	0.32	36.10	0.00	-0.55	9.77	-2.20	212.87	3.06	-8.97
381	4	0.28	0.32	31.40	0.07	0.28	9.92	0.18	204.13	-10.83	7.43
382	1	0.36	0.08	1.87	-0.17	-0.13	-0.91	3.26	35.24	30.63	-22.71
382	2	1.35	0.08	8.80	0.72	-2.24	5.31	-9.74	45.78	8.70	8.20
382	3	1.35	0.32	6.90	-1.18	0.55	6.85	0.63	-31.38	-86.31	-10.69
382	4	0.36	0.32	2.98	0.12	-0.40	10.67	3.54	-20.55	32.55	20.22
383	1	0.32	0.08	-3.44	-0.18	-0.38	-2.28	2.66	19.00	15.36	-16.97
383	2	1.19	0.08	-0.06	0.05	-0.40	0.41	-2.49	28.55	-39.47	24.53
383	3	1.19	0.32	-0.92	0.28	-0.90	6.90	-3.70	-13.27	-12.46	-27.08
383	4	0.32	0.32	-2.98	-0.09	-0.55	7.46	2.65	-3.58	14.53	14.42
384	1	0.28	0.08	4.30	-0.09	-0.70	-2.80	3.37	12.78	-6.98	-12.34
384	2	1.06	0.08	5.18	0.03	-0.46	-3.87	-2.67	4.49	1.67	15.31
384	3	1.06	0.32	5.27	0.00	-0.56	4.93	-2.77	11.21	3.50	-12.85
384	4	0.28	0.32	4.59	0.08	-0.34	5.76	2.13	2.88	-14.61	14.82
385	1	0.36	0.08	-0.81	-0.24	-0.40	-14.30	2.19	-71.05	41.89	-32.07
385	2	1.35	0.08	-8.17	1.24	0.93	-9.18	3.15	-60.44	-9.73	31.41
385	3	1.35	0.32	-9.80	-0.39	-2.38	-7.09	-10.93	-144.58	-105.57	-33.91
385	4	0.36	0.32	0.14	0.01	-0.14	-4.36	3.75	-133.68	43.81	29.56
386	1	0.32	0.08	1.09	0.06	-0.51	-10.29	1.98	-88.01	22.75	-23.59
386	2	1.19	0.08	4.36	-0.46	-0.92	-8.21	-5.20	-78.43	-50.13	29.69
386	3	1.19	0.32	4.24	-0.26	-0.23	-1.46	-0.33	-126.89	-22.86	-32.26
386	4	0.32	0.32	9.46	0.14	-0.42	-1.52	3.01	-117.16	21.93	21.03
387	1	0.28	0.08	-11.82	-0.04	-0.33	-6.24	1.95	-94.56	-12.05	-19.61
387	2	1.06	0.08	-13.61	0.01	-0.53	-6.99	-2.23	-102.91	3.10	20.42
387	3	1.06	0.32	-13.50	-0.01	-0.49	1.29	-3.22	-102.53	4.95	-17.94
387	4	0.28	0.32	-11.60	0.10	-0.65	2.45	3.36	-110.93	-19.26	22.11
388	1	0.17	0.12	23.98	-0.35	-0.30	-5.54	0.70	-391.38	-120.69	39.07
388	2	0.62	0.12	19.49	0.88	-0.55	-7.11	-0.41	-343.67	-198.95	15.99
388	3	0.53	0.45	20.82	0.92	0.90	-6.71	-0.36	-351.12	-158.06	-15.15
388	4	0.17	0.45	17.46	-0.08	0.26	-5.50	2.97	-396.31	-125.47	40.38
389	1	0.27	0.50	12.92	1.69	-0.07	-6.97	1.01	-418.55	-161.58	124.11
389	2	0.02	0.17	16.40	2.36	-1.80	-8.22	0.15	-372.33	-226.51	25.60
389	3	0.27	0.50	12.82	2.97	0.30	-4.76	-0.99	-392.20	-162.56	10.07
389	4	0.02	0.17	16.92	1.79	0.76	-6.69	1.02	-482.14	-81.30	102.60
390	1	0.00	0.14	0.42	2.90	-1.85	-4.72	3.25	-321.28	-362.44	-16.33

390	2	0.53	0.16	6.40	3.34	-2.19	-3.92	3.71	-255.39	-486.47	-77.32
390	3	0.19	0.59	7.60	4.56	-1.02	-0.96	1.17	-316.58	-345.36	-81.53
390	4	-0.18	0.53	10.16	3.68	-0.28	-4.12	0.13	-354.24	-223.41	-32.04
391	1	0.13	0.12	24.83	0.46	0.71	-6.24	5.44	-424.71	-103.51	31.91
391	2	0.47	0.12	21.13	1.14	0.97	-8.75	1.89	-375.74	-22.22	-65.79
391	3	0.39	0.45	23.39	1.05	2.55	-8.50	0.80	-494.70	-17.40	-42.46
391	4	0.12	0.44	27.27	0.60	0.87	-14.49	4.46	-508.36	-43.48	-7.01
392	1	0.10	0.13	18.12	1.62	-0.15	-10.38	2.00	-433.69	29.97	77.45
392	2	0.43	0.14	13.99	2.53	0.13	-8.83	-1.38	-367.49	-98.80	44.07
392	3	0.27	0.53	16.04	1.56	2.84	-3.09	-0.94	-341.72	-24.47	-29.68
392	4	0.00	0.48	20.59	0.90	1.84	-5.56	1.64	-444.67	-17.50	-26.71
393	1	0.06	0.16	11.16	3.35	-0.46	-8.63	-0.21	-363.59	-130.52	19.09
393	2	0.39	0.18	8.17	4.51	-0.32	-5.99	-2.06	-336.52	-182.79	-62.46
393	3	0.14	0.67	9.79	2.99	2.83	-2.29	-2.94	-201.01	-45.68	-47.64
393	4	-0.12	0.59	13.51	1.79	2.29	-3.00	-0.71	-271.83	-0.99	-25.28
394	1	0.16	0.12	-26.44	0.96	-0.29	-3.27	-0.07	-409.16	-117.50	-72.96
394	2	0.61	0.12	-27.72	1.21	-0.22	-0.80	0.04	-364.05	-197.83	-49.54
394	3	0.52	0.45	-28.09	1.28	-0.29	-1.58	-2.18	-427.65	-183.88	-91.02
394	4	0.14	0.44	-26.59	0.77	-0.36	-4.67	-1.70	-438.84	-127.56	-73.76
395	1	0.12	0.12	-27.41	0.79	-0.12	0.28	0.68	-399.56	-326.97	-130.01
395	2	0.57	0.13	-25.96	-0.53	0.30	1.02	-0.11	-305.30	-319.72	-53.38
395	3	0.36	0.50	-26.73	0.42	-1.73	-1.69	2.56	-341.41	-318.65	-134.70
395	4	-0.01	0.47	-27.79	1.17	-0.96	-2.41	-0.80	-391.24	-242.97	-119.15
396	1	0.08	0.14	-24.91	-1.30	0.68	1.03	0.11	-260.65	-387.28	-20.26
396	2	0.52	0.16	-23.85	-2.37	1.03	0.15	3.17	-198.42	-461.88	15.95
396	3	0.19	0.58	-23.89	-2.50	-1.24	-7.03	-2.09	-238.35	-459.56	-81.43
396	4	-0.18	0.53	-25.14	-0.57	-1.67	-5.49	1.12	-305.88	-397.74	-118.97
397	1	0.13	0.12	-26.77	-0.17	2.45	-2.31	-5.02	-460.27	-107.53	-42.34
397	2	0.46	0.12	-28.34	0.79	2.00	2.61	-5.42	-467.08	-136.14	-95.98
397	3	0.39	0.45	-30.34	-0.19	-0.44	-25.61	-7.58	-535.34	-52.45	-87.10
397	4	0.12	0.44	-29.00	-0.56	1.62	-20.05	-4.13	-522.39	-19.43	-10.77
398	1	0.10	0.13	-28.32	0.91	3.68	7.99	-4.04	-463.56	-158.52	-105.00
398	2	0.43	0.14	-27.51	1.54	2.94	10.92	-1.74	-448.25	-256.18	-173.92
398	3	0.27	0.53	-29.12	0.31	-1.63	-30.49	-9.74	-542.35	-126.57	-184.25
398	4	0.00	0.48	-30.27	0.11	0.34	-29.74	-8.33	-553.37	-66.78	-103.49
399	1	0.06	0.16	-25.94	0.92	4.21	16.26	1.03	-418.31	-282.50	-174.92
399	2	0.39	0.18	-23.96	0.61	3.34	14.56	8.51	-361.29	-391.52	-192.17
399	3	0.14	0.66	-25.12	0.75	-2.25	-25.26	-11.62	-553.55	-254.84	-295.82
399	4	-0.11	0.59	-27.89	0.90	-0.59	-30.41	-9.82	-575.46	-153.27	-215.50
400	1	0.36	0.12	-3.09	-23.91	-0.55	1.67	2.15	-500.96	-170.13	-5.24
400	2	0.90	0.10	-2.97	-22.03	0.14	3.53	-0.42	-548.94	-164.56	60.47
400	3	1.21	0.37	-2.65	-20.89	1.62	0.78	2.24	-584.39	-205.76	142.46
400	4	0.76	0.46	-1.99	-21.76	0.48	0.40	2.31	-514.57	-217.01	95.44
401	1	0.30	0.09	-2.86	-20.45	0.45	4.42	6.48	-603.15	-169.05	111.77
401	2	0.85	0.07	-4.17	-16.68	0.07	6.79	2.37	-677.11	-204.91	179.72
401	3	1.01	0.27	-5.10	-13.75	1.98	5.21	7.14	-749.03	-221.93	226.11
401	4	0.54	0.32	-2.71	-18.49	1.81	5.15	2.00	-655.14	-209.49	180.82
402	1	0.25	0.07	-6.54	-13.48	-0.99	2.79	13.92	-715.13	-197.38	200.62
402	2	0.80	0.06	-7.41	-8.72	-4.95	3.39	6.49	-744.24	-172.19	208.34
402	3	0.83	0.22	-8.12	-5.56	-3.96	4.10	8.78	-836.41	-147.37	195.37
402	4	0.35	0.24	-7.39	-9.09	0.26	6.64	13.03	-812.24	-200.89	231.17
403	1	0.27	0.16	-3.84	-21.10	8.77	11.52	-3.20	-584.87	-186.71	84.97
403	2	0.66	0.11	-4.74	-16.73	8.89	13.06	2.34	-703.33	-163.62	92.58
403	3	0.89	0.47	-8.38	-9.15	8.57	-23.89	12.69	-879.17	-155.95	278.49
403	4	0.57	0.59	-6.33	-14.75	10.61	-19.11	16.68	-664.47	-212.68	291.43
404	1	0.24	0.10	-5.19	-14.58	7.27	11.76	9.96	-775.14	-183.91	175.54
404	2	0.65	0.08	-7.67	-8.42	4.22	1.34	10.34	-896.73	-159.57	172.33
404	3	0.78	0.30	-9.30	-1.74	1.25	-7.95	6.83	-1146.90	-102.78	230.69
404	4	0.44	0.37	-7.85	-6.28	6.69	-20.23	11.60	-956.77	-173.53	330.28
405	1	0.20	0.07	-8.26	-5.43	0.63	6.88	13.20	-938.37	-161.62	219.93
405	2	0.62	0.06	-8.41	-3.51	-4.06	7.30	7.20	-920.96	-94.11	127.95
405	3	0.64	0.23	-8.56	-0.56	-2.67	32.91	3.22	-1035.24	-28.41	43.42
405	4	0.29	0.25	-9.05	-1.92	1.50	8.22	6.39	-1129.90	-87.81	230.38
406	1	0.20	0.06	-6.93	-16.06	-10.62	4.19	11.02	-704.23	-138.59	137.56
406	2	0.75	0.07	-6.38	-23.08	-15.05	-11.59	11.74	-607.94	-114.87	33.28
406	3	0.65	0.24	-5.75	-18.12	-16.10	-2.33	14.69	-615.35	-82.02	8.32
406	4	0.17	0.22	-7.70	-11.29	-10.67	4.79	9.84	-750.21	-105.11	106.94
407	1	0.15	0.07	-2.92	-23.18	-11.74	-3.70	2.45	-545.01	-169.12	-33.07
407	2	0.70	0.09	-2.67	-28.68	-9.57	-2.23	1.63	-476.30	-195.39	-109.10
407	3	0.86	0.32	-0.50	-28.69	-11.23	-1.27	-1.77	-462.18	-148.90	-112.55
407	4	0.81	0.27	-3.84	-23.75	-15.67	-1.65	5.61	-513.02	-121.77	-35.61
408	1	0.10	0.10	-2.16	-28.74	-6.85	-1.51	-0.39	-569.91	-168.25	-154.40
408	2	0.64	0.12	-1.55	-29.72	-4.53	0.74	-0.36	-557.72	-197.25	-98.21
408	3	0.24	0.46	-0.02	-29.75	-5.61	4.41	1.26	-449.41	-204.01	-119.91
408	4	0.21	0.37	-1.03	-30.72	-9.00	3.31	0.05	-457.42	-147.79	-142.04
409	1	0.16	0.06	-9.81	-5.49	-9.73	10.10	11.39	-785.58	-88.52	111.16
409	2	0.58	0.07	-9.01	-12.44	-16.53	6.05	18.47	-616.85	-60.13	-0.98
409	3	0.49	0.25	-12.14	-5.49	-9.34	66.21	18.27	-610.15	-25.54	-81.61
409	4	0.14	0.23	-9.46	-0.50	-3.28	44.45	5.15	-873.15	-31.80	45.05
410	1	0.12	0.08	-10.90	-14.38	-20.23	3.03	9.22	-502.54	-73.06	-7.13
410	2	0.53	0.10	-6.12	-23.37	-20.48	-9.54	7.79	-445.79	-58.00	-68.83
410	3	0.33	0.37	-12.61	-12.49	-15.54	70.05	24.26	-349.68	-50.49	-100.21
410	4	-0.01	0.30	-15.03	-5.21	-12.14	75.35	19.92	-511.98	-32.52	-61.83
411	1	0.07	0.13	-6.49	-24.61	-20.82	-15.96	-0.77	-436.32	-69.28	-56.59
411	2	0.46	0.16	-4.53	-29.85	-17.89	-11.92	-8.58	-404.38	-123.04	-70.38
411	3	0.16	0.59	-9.05	-23.04	-18.45	44.95	27.82	-214.69	-59.86	-80.27
411	4	-0.16	0.47	-13.45	-15.58	-17.21	62.81	23.62	-300.99	-27.33	-75.22
412	1	0.29	0.16	-29.78	-0.29	3.33	-1.58	-0.26	-216.36	-538.55	68.50
412	2	0.74	0.14	-32.29	1.15	2.64	-2.96	-2.63	-283.26	-425.03	14.68
412	3	1.00	0.53	-34.80	2.36	4.59	3.82	-2.36	-292.65	-296.07	40.94
412	4	0.63	0.58	-32.78	-0.62	5.90	4.84	-5.26	-235.97	-402.41	99.52
413	1	0.25	0.13	-34.20	2.01	2.01	-1.49	-3.39	-341.81	-352.81	-38.93
413	2	0.69	0.12	-36.27	3.19	0.98	-1.79	-1.89	-403.10	-176.58	-100.04
413	3	0.83	0.47	-38.00	3.54	0.94	1.13	-4.50	-365.82	-151.46	-48.95
413	4	0.85	0.50	-37.14	3.34	3.42	0.04	-0.32	-353.79	-233.33	-21.57
414	1	0.20	0.12	-36.45	3.15	0.13	1.05	-2.43	-386.72	-146.67	-61.85
414	2	0.65	0.12	-34.37	2.15	-0.80	3.86	-2.06	-450.36	-133.02	-151.95
414	3	0.68	0.44	-35.12	1.66	-1.97	6.27	-4.62	-446.06	-107.79	-126.81
414	4	0.79	0.45	-37.75	2.92	-0.63	2.13	-5.63	-409.47	-93.99	-73.99
415	1	0.32	0.18	-36.18	5.50	-3.19	-17.19	5.77	-269.94	-253.47	115.01
415	2	0.34	0.16	-38.10	4.36	-5.85	-18.05	-3.68	-300.03	-168.60	41.69
415	3	0.72	0.39	-40.88	2.29	0.85	51.12	-19.01	-198.43	-37.31	30.88
415	4	0.46	0.66	-38.92	2.89	3.76	44.54	-26.18	-168.31	-86.91	77.93
416	1	0.19	0.14	-38.94	4.21	-4.54	-11.49	-8.26	-326.52	-76.63	-10.48
416	2	0.42	0.13	-38.80	2.19	-6.17	-4.90	-8.83	-239.52	-64.28	-23.23
416	3	0.52	0.38	-41.86	0.15	-0.77	47.04	-13.34	-301.03	-2.90	6.90
416	4	0.51	0.61	-41.55	0.83	2.27	50.25	-16.77	-228.54	-16.66	40.21
417	1	0.36	0.12	-38.29	1.66	-3.94	-0.09	-9.92	-390.76	-57.28	-63.83
417	2	0.80	0.12	-35.47	-0.10	-4.80	6.04	-8.46	-428.32	-78.67	-108.28
417	3	0.81	0.44	-39.06	-0.81	-2.88	32.66	-5.85	-450.01	-28.28	-41.80
417	4	0.85	0.47	-41.40	-0.11	0.11	41.26	-11.76	-351.92	-29.74	9.16
418	1	0.37	0.17	-30.96	1.08	-1.28	-5.70	-2.15	-449.90	-134.18	-150.23
418	2	0.77	0.17	-28.92	-0.39	-1.86	9.14	-0.29	-408.33	-244.07	-148.47
418	3	0.91	0.45	-26.74	-0.31	-3.13	10.46	-1.20	-460.87	-228.75	-167.63
418	4	0.96	0.44	-31.97	0.60	-2.67	8.38	-5.38	-468.26	-113.59	-144.74
419	1	0.52	0.12	-20.14	-1.74	-2.24	10.64	-0.04	-451.47	-371.04	-225.77

419	2	0.58	0.13	-14.23	-1.86	-2.87	8.47	2.03	-386.06	-350.77	-108.80	433	4	0.14	0.24	2.51	0.09	1.30	-27.74	1.38	-972.70	-54.10	73.3
419	3	0.37	0.50	-17.20	-0.67	-3.74	10.04	3.11	-398.03	-374.34	-201.34	434	1	0.12	0.08	-5.05	-0.85	0.88	-6.35	1.96	-559.41	-10.27	75.73
419	4	-0.02	0.47	-22.43	-0.64	-3.41	11.91	-1.49	-436.87	-292.59	-203.83	434	2	0.53	0.10	-6.40	-2.38	-0.01	-4.32	2.45	-433.98	-113.02	-26.52
420	1	0.08	0.14	-10.56	-1.79	-3.28	9.55	3.12	-325.10	-427.75	-35.29	434	3	0.32	0.38	-6.25	-0.84	-1.31	-11.38	-3.41	-240.92	-34.94	-29.87
420	2	0.53	0.16	-6.64	-1.09	-3.57	7.21	7.17	-248.85	-543.52	28.73	434	4	-0.01	0.31	-4.31	0.20	0.09	-19.25	-1.85	-449.61	-12.78	-10.38
420	3	0.19	0.59	-9.42	-0.10	-3.96	8.51	2.69	-291.44	-542.33	-100.66	435	1	0.07	0.13	-6.30	-4.01	-0.27	-2.34	1.20	-405.97	-94.83	-45.46
420	4	-0.18	0.53	-13.30	-0.33	-3.83	10.00	2.68	-369.31	-469.30	-163.25	435	2	0.46	0.16	-5.66	-6.40	-0.76	-0.85	-0.74	-339.11	-203.45	-97.60
421	1	0.13	0.12	-32.89	-0.35	-2.55	8.80	-8.58	-491.95	-93.59	-115.83	435	3	0.16	0.60	-6.72	-4.25	-3.34	-6.26	-0.53	-131.67	-83.87	-71.57
421	2	0.47	0.12	-28.05	-0.98	-2.89	12.58	-4.82	-509.81	-156.65	-166.77	435	4	-0.16	0.48	-6.86	-1.73	-1.81	-8.87	-1.18	-165.95	-26.43	-57.69
421	3	0.39	0.45	-31.54	-1.33	-4.11	15.29	-2.04	-586.04	-60.79	-122.61	436	1	0.13	0.21	-3.16	0.01	-3.31	7.85	9.30	-181.17	-640.41	67.74
421	4	0.12	0.44	-36.72	-0.86	-1.89	25.07	-6.02	-514.11	-26.07	-44.35	436	2	0.47	0.21	-0.55	0.98	-2.18	10.02	13.00	-97.82	-675.47	44.85
422	1	0.10	0.13	-24.40	-0.69	-1.06	13.56	-4.52	-530.05	-191.84	-174.63	436	3	0.47	0.79	2.75	4.44	-1.84	12.60	9.65	-106.71	-659.14	-29.23
422	2	0.43	0.14	-19.42	-0.02	-1.22	16.11	-1.36	-522.75	-310.05	-241.49	436	4	0.13	0.79	-1.24	3.43	-2.92	12.29	6.85	-150.91	-669.65	-37.22
422	3	0.27	0.53	-22.32	-1.08	-3.92	3.41	-0.91	-655.23	-161.69	-237.21	437	1	0.09	0.21	1.13	1.38	-1.04	6.19	12.39	-76.69	-670.68	32.32
422	4	0.00	0.48	-28.09	-1.15	-3.07	9.91	-3.48	-639.08	-80.71	-141.14	437	2	0.32	0.21	2.94	2.30	-0.22	10.67	11.09	-57.10	-655.41	22.44
423	1	0.06	0.16	-16.59	0.89	-0.02	16.55	-0.44	-501.26	-336.14	-221.10	437	3	0.32	0.79	7.33	5.72	-0.34	9.47	7.91	-61.11	-617.30	-40.42
423	2	0.39	0.18	-12.38	2.57	-0.39	16.60	4.85	-436.20	-470.58	-237.26	437	4	0.09	0.79	5.28	5.31	-1.01	8.91	5.97	-84.69	-634.28	-33.31
423	3	0.14	0.67	-14.38	0.85	-2.12	0.33	-3.27	-684.60	-316.54	-370.17	438	1	0.09	0.21	-2.73	-2.94	1.00	-2.26	-1.35	-19.00	-656.19	26.20
423	4	-0.12	0.59	-19.06	-0.11	-2.40	1.74	-2.46	-706.63	-193.15	-274.72	438	2	0.33	0.21	-3.22	-3.17	0.97	-7.11	-17.52	-34.02	-653.93	-2.82
424	1	0.36	0.13	0.18	-5.06	3.60	6.57	-10.01	-604.10	-206.63	-18.59	438	3	0.33	0.79	-7.29	-6.77	0.23	-11.52	-4.71	-38.78	-610.76	54.52
424	2	0.90	0.10	3.39	-3.32	3.09	6.63	-10.93	-661.63	-197.59	70.50	438	4	0.09	0.29	-5.10	-6.81	0.24	-10.32	-2.39	-19.78	-598.87	60.48
424	3	1.21	0.38	3.88	-5.79	3.09	4.47	-10.60	-699.76	-249.25	167.67	439	1	0.09	0.21	1.99	1.97	1.29	-6.60	16.34	-5.55	-622.68	-46.37
424	4	0.77	0.47	1.66	-6.77	3.33	3.48	-8.74	-614.03	-263.38	113.46	439	2	0.35	0.21	1.12	1.40	1.45	-4.99	-3.09	0.23	-622.67	-80.05
425	1	0.30	0.09	5.36	-2.43	2.92	5.68	-10.89	-715.98	-203.14	136.79	439	3	0.35	0.79	0.01	4.40	0.43	-13.69	1.32	14.43	-577.04	-95.81
425	2	0.85	0.08	7.44	-1.47	2.86	2.68	-10.30	-784.16	-240.74	216.07	439	4	0.09	0.79	2.91	4.62	0.34	-14.47	5.80	3.29	-566.07	-77.70
425	3	1.01	0.28	7.41	-3.11	3.07	1.54	-6.55	-881.97	-270.77	275.91	440	1	0.09	0.21	-0.08	-0.40	0.76	-3.62	-3.14	6.99	-577.21	124.81
425	4	0.54	0.33	6.09	-4.50	2.65	3.84	-11.40	-777.31	-255.09	214.53	440	2	0.33	0.21	-0.49	-0.74	0.40	-2.65	-4.36	10.01	-570.17	97.36
426	1	0.25	0.07	7.79	-1.51	3.34	-0.21	-4.61	-812.63	-230.44	259.65	440	3	0.33	0.79	1.40	-1.53	0.03	-2.56	-0.46	23.27	-523.16	109.20
426	2	0.80	0.06	5.39	-1.00	3.16	-7.00	-3.71	-836.47	-201.47	314.26	440	4	0.09	0.79	1.73	-1.54	0.24	-1.90	-4.27	28.57	-502.93	119.11
426	3	0.83	0.24	5.21	-1.11	3.26	-9.27	-3.22	-921.32	-165.34	258.91	441	1	0.23	0.21	0.09	0.43	-0.64	0.03	-2.85	-12.50	-580.78	-117.63
426	4	0.35	0.23	7.60	-2.33	3.52	-1.76	-1.17	-935.57	-241.69	291.73	441	2	0.86	0.21	-0.64	0.69	-1.51	2.40	2.03	13.55	-343.48	-260.57
427	1	0.27	0.16	-0.18	-7.78	6.47	12.37	-12.60	-704.88	-228.32	103.55	441	3	0.86	0.79	-0.87	0.62	-1.78	1.28	-1.55	-15.80	-417.27	-112.10
427	2	0.66	0.13	2.32	-5.15	6.37	13.23	-8.65	-846.58	-203.47	121.48	441	4	0.23	0.79	-1.31	1.02	-0.73	0.03	-3.89	23.89	-535.02	-137.91
427	3	0.89	0.48	0.91	-3.83	4.11	-11.56	2.12	-1081.26	-194.46	342.32	442	1	0.30	0.17	-0.98	0.49	-1.84	-5.56	-3.19	23.04	-331.81	93.59
427	4	0.57	0.60	-1.74	-6.97	5.93	-4.69	-0.33	-823.24	-269.76	363.20	442	2	1.10	0.05	-4.38	0.66	-1.90	1.94	9.44	-35.84	-583.53	-52.80
428	1	0.24	0.10	4.77	-4.73	5.45	8.94	-5.95	-929.08	-229.34	212.27	442	3	1.10	0.63	-1.50	0.81	-1.02	1.74	0.12	9.27	-536.07	7.69
428	2	0.65	0.08	5.97	-2.04	4.92	1.76	-2.75	-1068.67	-184.02	209.72	442	4	0.30	0.75	-1.57	0.21	-1.88	-2.54	0.64	-13.22	-454.70	-28.81
428	3	0.78	0.31	5.41	-0.86	2.00	-23.73	4.78	-1386.96	-125.57	290.11	443	1	0.18	0.21	-26.99	-3.58	2.82	1.58	3.10	-136.15	-686.83	118.09
428	4	0.44	0.38	3.46	-2.76	2.58	-16.99	3.40	-1175.05	-210.64	401.79	443	2	0.67	0.21	-27.85	-2.34	4.10	0.30	-2.33	-170.77	-612.16	104.13
429	1	0.20	0.07	6.88	-1.96	4.02	-3.99	1.53	-1101.68	-215.87	271.58	443	3	0.67	0.79	-27.61	-3.39	6.33	-0.33	-2.79	-219.86	-620.12	90.06
429	2	0.62	0.06	4.82	-0.18	3.34	-11.75	-1.16	-1034.39	-88.62	182.68	443	4	0.16	0.79	-27.04	-5.63	4.39	4.17	6.38	-218.30	-641.69	108.93
429	3	0.63	0.24	5.11	0.14	1.24	-28.15	-0.73	-1237.60	-16.32	67.29	444	1	0.21	0.21	-27.76	-4.77	1.87	-0.73	3.58	-0.26	-522.98	2.73
429	4	0.29	0.26	6.41	-0.95	1.37	-25.12	5.14	-1175.14	-117.26	266.72	444	2	0.78	0.21	-27.28	-4.87	1.78	0.50	-3.10	-73.05	-539.91	89.30
430	1	0.20	0.06	-1.07	-0.48	2.09	-9.38	0.53	-755.45	-99.35	240.99	444	3	0.78	0.79	-26.75	-6.05	2.34	5.07	-2.87	-235.32	-555.19	122.55
430	2	0.75	0.07	-3.82	-1.73	1.22	-7.75	2.24	-604.21	-115.45	198.88	444	4	0.21	0.79	-30.19	-7.28	1.20	5.07	-3.19	-275.57	-684.92	147.29
430	3	0.65	0.25	-3.24	-0.52	1.18	-9.05	-0.35	-575.72	-155.29	171.66	445	1	0.21	0.34	0.71	8.23	-1.46	-2.57	13.10	-371.83	15.12	-170.07
430	4	0.17	0.24	1.39	0.04	2.24	-10.95	2.67	-813.19	-74.05	206.83	445	2	0.79	0.34	1.98	7.20	-1.86	-2.46	14.35	-363.43	-3.81	-130.64
431	1	0.15	0.08	-6.05	-3.23	0.80	-6.10	4.44	-661.09	-271.25	0.43	445	3	0.79	0.79	6.93	24.57	-1.66	41.32	22.60	-476.35	10.19	-75.81
431	2	0.70	0.09	-6.84	-5.02	1.03	-8.60	2.58	-540.90	-185.82	-59.91	445	4	0.21	0.79	0.84	22.66	-1.41	-10.29	10.44	-389.94	12.65	-84.51
431	3	0.46	0.33	-6.45	-3.78	0.04	-4.72	2.23	-486.27	-159.03	-90.46	446	1	0.21	0.29	-2.95	-12.94	-0.58	-0.35	14.91	-156.10	-30.37	-6.15
431	4	-0.01	0.28	-5.48	-1.94	0.38	-8.63	3.06	-653.17	-94.55	80.24	446	2	0.79	0.29	-2.57	-13.32	-0.51	-1.35	13.24	-115.25	3.25	99.15
432	1	0.10	0.10	-6.25	-5.68	1.49	1.37	1.72	-511.10	-298.46	-97.35	446	3	0.79	1.04	-0.27	-1.66	-0.53	-3.94	17.23	-116.74	-2.85	-245.06
432	2	0.64	0.13	-4.12	-5.93	2.10	-0.37	-1.02	-523.62	-267.68	-106.40	446	4	0.21	1.04	0.45	-1.70	-0.54	9.18	15.60	-167.47	-34.73	-141.65
432	3	0.23	0.47	-5.20	-6.43	1.12	-1.12	2.36	-377.89	-291.50	-100.52	447	1	0.21	0.47	-5.29	-24.34	0.65	0.90	5.23	-355.60	25.45	-3.72
432	4	-0.21	0.38	-6.34	-5.20	0.38	-2.12	0.40	-420.35	-231.07	-106.91	447	2	0.93	0.47	-5.16	-24.53	0.85	-0.91	5.38	-357.32	14.99	-9.17
433	1	0.16	0.06	-1.92	-0.09	2.28	-13.10	1.19	-853.75	-109.16	202.74	447	3	0.79	1.19	-3.87	-19.36	-0.02	1.85	6.87	-338.62	14.98	-12.68
433	2	0.58	0.07	-2.69	-0.14	1.54	-10.07	-0.06	-541.43	-50.39	28.84	447	4	0.21	1.19	-4.36	-19.26	-0.16	-0.12	5.89	-359.48	22.40	22.92
433	3	0.49	0.26	-2.07	-0.04	0.69	-22.05	-1.75	-627.03	-2.68	-61.69	448	1	0.21	0.78	-5.15	-23.74	0.39	-0.19	-2.92	-360.59	9.83	8.24

448	2	0.79	0.28	-5.09	-23.85	0.37	-0.08	-3.05	-354.30	3.94	2.61
448	3	0.79	1.06	-5.45	-25.68	0.32	-0.31	-1.65	-362.30	1.87	-3.36
448	4	0.21	1.06	-5.47	-25.53	0.30	0.57	-1.57	-356.36	13.60	-3.92
449	1	0.30	0.21	-1.32	0.01	-1.93	1.09	-4.77	-20.07	-478.35	-56.32
449	2	1.10	0.21	-0.51	-0.52	-1.45	1.04	2.52	6.87	-543.82	15.90
449	3	1.10	0.79	-0.33	-1.16	-1.74	0.29	3.78	-11.21	-550.89	0.99
449	4	0.30	0.79	-1.20	-0.54	-2.35	0.15	-3.64	-8.61	-521.93	-32.32
450	1	0.23	0.21	-2.18	0.85	-1.29	0.00	-4.51	42.03	-503.52	-137.20
450	2	0.86	0.21	-1.30	0.37	-1.90	-1.60	3.55	-16.26	-486.12	-69.43
450	3	0.86	0.79	-1.65	-0.11	-2.26	0.04	2.76	5.32	-529.67	-73.44
450	4	0.23	0.79	-2.35	0.84	-2.26	-0.30	-4.14	23.48	-518.12	-107.16
451	1	0.09	0.21	2.29	-1.89	-0.63	-2.21	-3.23	22.90	-542.07	105.65
451	2	0.33	0.21	1.87	-2.26	-0.41	-4.80	4.30	25.65	-510.65	111.62
451	3	0.33	0.79	2.32	-2.16	-1.18	-4.54	11.65	33.22	-515.45	125.41
451	4	0.09	0.79	2.76	-1.86	-1.80	-2.40	-6.50	35.44	-539.28	121.21
452	1	0.09	0.21	3.27	6.00	-0.43	-16.12	-1.15	4.13	-548.72	-105.80
452	2	0.35	0.21	-0.50	5.19	-0.35	-14.88	6.80	18.41	-552.84	-111.21
452	3	0.35	0.79	-0.72	6.17	-1.40	-15.19	11.93	18.18	-561.47	-122.91
452	4	0.09	0.79	2.97	6.59	-1.47	-17.16	-11.64	7.13	-553.96	-140.76
453	1	0.09	0.21	-5.52	-7.93	-0.41	-14.48	-6.39	-19.44	-570.83	98.05
453	2	0.33	0.21	-8.71	-8.51	-0.34	-14.13	-0.73	-42.88	-584.85	89.14
453	3	0.33	0.79	-9.21	-9.81	-1.26	-16.75	11.03	-53.07	-587.52	138.86
453	4	0.09	0.79	-5.47	-9.66	-1.31	-14.89	-13.91	-19.90	-574.82	169.10
454	1	0.09	0.21	6.84	6.53	-1.41	8.36	3.40	-89.27	-641.45	-83.38
454	2	0.32	0.21	9.11	7.26	-0.60	7.80	10.94	-57.55	-610.19	-86.25
454	3	0.32	0.79	9.79	8.94	-1.19	7.50	13.99	-72.77	-612.06	-162.06
454	4	0.09	0.79	7.53	8.55	-2.21	7.01	-1.41	-115.62	-643.88	-170.47
455	1	0.13	0.21	-0.11	5.44	-2.83	11.73	4.90	-167.52	-686.14	-100.74
455	2	0.47	0.21	4.42	6.43	-1.88	13.24	8.39	-126.63	-658.10	-83.82
455	3	0.47	0.79	4.99	8.04	-2.33	13.86	6.95	-130.25	-666.65	-172.30
455	4	0.13	0.79	0.45	7.54	-2.94	10.74	2.19	-208.59	-732.96	-182.72
456	1	0.18	0.21	-25.14	-6.65	5.43	1.64	8.36	-282.73	-682.99	95.41
456	2	0.67	0.21	-26.48	-4.42	9.01	2.19	-0.97	-222.24	-550.09	90.25
456	3	0.67	0.79	-26.72	-5.13	12.21	-0.39	-1.73	-200.20	-604.97	24.14
456	4	0.18	0.79	-23.27	-7.68	9.19	9.11	19.20	-316.38	-690.61	-42.25
457	1	0.21	0.21	-31.65	-9.34	1.25	15.70	4.73	-419.51	-685.02	-14.80
457	2	0.78	0.21	-26.84	-7.35	3.04	7.16	0.12	-249.45	-547.41	76.46
457	3	0.78	0.79	-25.17	-7.66	5.06	12.86	2.12	-392.03	-554.37	-21.13
457	4	0.21	0.79	-30.61	-9.60	0.62	9.09	6.12	-463.07	-729.89	23.62
458	1	0.21	0.34	3.22	7.10	-1.01	1.22	16.98	-394.11	-45.04	-127.38
458	2	0.79	0.34	3.63	7.53	-0.13	-0.72	16.27	-370.99	-47.86	-161.79
458	3	0.79	1.28	7.83	24.28	-0.03	21.60	24.59	-508.92	-21.75	-142.92
458	4	0.21	1.28	9.00	25.01	-0.73	23.85	27.88	-484.13	-12.38	-117.91
459	1	0.21	0.29	-2.38	-13.58	-0.36	-1.00	13.95	-596.63	-20.43	102.78
459	2	0.79	0.29	-2.24	-13.59	0.07	-1.17	14.41	-557.67	21.22	5.17
459	3	0.79	1.09	0.91	-2.34	-0.07	-7.09	15.71	-563.38	17.33	-131.64
459	4	0.21	1.09	0.38	-1.85	-0.48	9.14	14.86	-610.72	-29.23	-236.17
460	1	0.21	0.32	-5.07	-24.63	0.14	-0.12	5.22	-351.42	-15.94	-7.83
460	2	0.79	0.32	-5.04	-24.77	0.25	-0.88	4.97	-354.53	-21.49	-1.41
460	3	0.79	1.19	-3.90	-19.68	0.14	1.99	6.91	-351.67	-25.57	32.10
460	4	0.21	1.19	-3.85	-19.49	0.04	-0.63	7.21	-371.32	-23.78	-11.05
461	1	0.21	0.28	-5.05	-23.93	0.37	-0.24	-2.97	-356.01	0.32	2.77
461	2	0.79	0.28	-5.02	-24.03	0.42	0.04	-3.07	-350.75	-4.18	0.51
461	3	0.79	1.06	-5.33	-25.83	0.35	-0.72	-1.41	-354.31	-8.95	-1.27
461	4	0.21	1.06	-5.39	-25.75	0.35	-0.90	-1.66	-347.19	0.14	-2.14
462	1	0.30	0.21	-1.08	-0.93	-2.80	-0.21	-4.61	4.03	-552.19	-24.18
462	2	1.10	0.21	-0.24	-1.45	-2.14	0.17	4.69	-5.39	-554.17	-5.69
462	3	1.10	0.79	-0.24	-1.78	-2.36	0.79	5.78	2.60	-563.24	-2.98
462	4	0.30	0.79	-0.84	-1.20	-3.22	0.48	-4.18	5.44	-576.87	-27....
463	1	0.23	0.21	-2.07	0.67	-3.24	-1.27	-4.27	14.19	-546.57	-93.75
463	2	0.86	0.21	-1.57	-0.30	-2.76	-0.45	4.87	13.63	-550.20	-64.29
463	3	0.86	0.79	-1.11	-0.70	-3.21	-0.24	5.03	6.82	-584.50	-49.35
463	4	0.23	0.79	-1.16	0.16	-4.08	-0.07	-4.86	9.06	-588.27	-92.01
464	1	0.09	0.21	2.45	-2.00	-2.97	-3.35	-6.31	25.44	-546.97	120.16
464	2	0.33	0.21	2.06	-2.24	-1.85	-4.65	16.69	19.59	-541.44	128.23
464	3	0.33	0.79	0.93	-1.51	-2.52	-3.12	25.98	7.19	-566.40	143.20
464	4	0.09	0.79	1.25	-0.85	-4.42	-2.54	-7.13	6.04	-589.34	116.16
465	1	0.09	0.21	2.51	6.68	-2.62	-17.06	-20.94	4.48	-560.60	-161.18
465	2	0.35	0.21	-0.63	6.13	-2.54	-15.36	20.46	11.26	-578.54	-144.87
465	3	0.35	0.79	-0.31	3.79	-4.00	-6.30	22.60	0.78	-621.98	-162.24
465	4	0.09	0.79	1.28	4.47	-3.85	-7.00	-37.67	-15.66	-669.04	-168.88
466	1	0.09	0.21	-4.99	-9.87	-2.42	-15.88	-17.25	1.70	-637.01	181.85
466	2	0.33	0.21	-8.26	-10.30	-2.28	-19.17	21.71	-28.34	-643.05	226.57
466	3	0.33	0.79	-3.83	-6.77	-3.56	-9.97	41.39	-30.22	-745.51	389.05
466	4	0.09	0.79	-2.60	-6.13	-3.67	-7.40	-19.64	-20.44	-767.00	163.92
467	1	0.09	0.21	6.67	8.72	-3.11	7.19	-8.01	-127.19	-638.71	-245.67
467	2	0.32	0.21	8.79	9.49	-1.82	9.56	18.71	-82.35	-603.69	-240.43
467	3	0.32	0.79	4.02	6.37	-2.01	9.14	9.46	-100.77	-670.67	-367.33
467	4	0.09	0.79	2.64	6.12	-3.52	5.61	-19.39	-120.68	-616.61	-330.67
468	1	0.13	0.21	0.33	8.03	-3.58	8.32	-2.45	-220.72	-761.61	-249.88
468	2	0.47	0.21	4.17	8.73	-2.94	11.24	3.36	-169.27	-687.55	-248.31
468	3	0.47	0.79	1.01	5.43	-2.76	9.04	-3.75	-166.31	-652.85	-295.41
468	4	0.13	0.79	-0.54	5.34	-3.49	6.13	-9.49	-116.27	-755.98	-326.33
469	1	0.18	0.21	-22.99	-8.13	9.73	-3.85	2.48	-304.53	-638.14	-87.40
469	2	0.67	0.21	-22.62	-5.46	13.97	12.30	-3.29	-187.83	-591.24	-50.17
469	3	0.67	0.79	-21.48	-6.73	11.38	14.41	-6.25	-174.85	-651.75	-176.62
469	4	0.18	0.79	-34.88	-11.74	17.80	0.65	-3.27	-238.09	-642.39	-190.48
470	1	0.21	0.21	-27.86	-9.05	1.65	13.99	8.82	-444.56	-683.46	-92.75
470	2	0.78	0.21	-23.23	-6.63	5.43	-1.17	20.36	-374.00	-559.07	-89.77
470	3	0.78	0.79	-17.06	-4.74	6.39	-7.66	25.00	-260.58	-530.85	-167.07
470	4	0.21	0.79	-17.80	-3.27	1.07	24.09	18.75	-362.30	-644.61	-97.78
471	1	0.21	0.34	3.26	7.41	0.49	-0.27	18.83	-428.90	-33.50	-147.00
471	2	0.79	0.34	2.30	7.27	1.35	1.24	18.67	-381.84	13.40	-109.61
471	3	0.79	1.28	6.54	24.28	1.28	10.56	15.96	-417.52	-0.09	-215.27
471	4	0.21	1.28	8.54	24.21	0.25	-21.74	17.53	-443.95	1.91	-191.14
472	1	0.21	0.29	-2.36	-13.59	0.34	1.12	13.27	-450.63	24.19	-36.38
472	2	0.79	0.29	-2.65	-13.67	0.56	0.93	13.59	-417.64	19.51	-32.25
472	3	0.79	1.09	-0.22	-2.19	0.39	-8.41	14.79	-424.69	20.37	-91.44
472	4	0.21	1.09	0.18	-2.50	0.31	4.16	16.05	-464.15	20.94	-81.45
473	1	0.21	0.32	-5.04	-24.81	0.33	0.78	5.05	-352.45	-7.95	3.62
473	2	0.79	0.32	-5.09	-24.84	0.44	0.03	5.24	-355.73	-3.77	8.45
473	3	0.79	1.19	-3.98	-19.70	0.29	-0.26	7.01	-391.49	8.13	-4.44
473	4	0.21	1.19	-3.83	-19.71	0.23	-2.35	7.21	-418.88	-17.24	24.06
474	1	0.21	0.28	-5.01	-24.08	0.46	-0.16	-3.13	-350.45	-7.47	1.62
474	2	0.79	0.28	-5.04	-24.13	0.51	0.12	-2.97	-349.47	-3.88	4.84
474	3	0.79	1.06	-5.38	-25.97	0.34	-1.25	-1.74	-358.86	-4.95	5.53
474	4	0.21	1.06	-5.36	-25.89	0.35	0.36	-1.51	-350.02	-10.70	4.80
475	1	0.30	0.21	-0.62	-1.18	-3.21	0.03	-4.41	-5.27	-593.67	-27.04
475	2	1.10	0.21	-0.23	-1.29	-2.49	0.10	6.77	-2.51	-570.22	-2.79
475	3	1.10	0.79	-0.15	-1.36	-2.67	0.23	7.95	5.29	-579.62	-5.51
475	4	[illegible]	[illegible]	-0.48	-0.96	-3.37	0.84	-4.47	-6.19	-617.71	-24.81
476	1	[illegible]	[illegible]	-0.92	-0.72	-4.07	1.24	-4.51	-6.14	-617.95	-92.11
476	2	[illegible]	[illegible]	-0.50	-0.91	-3.86	0.45	5.97	-6.70	-605.90	-48.85
476	3	0.86	0.79	-0.20	-1.10	-2.85	-3.40	5.10	-13.91	-639.08	-61.48
476	4	0.23	0.79	1.50	-1.37	-3.66	-1.29	-3.92	-14.54	-661.51	-91.51
477	1	0.30	0.21	-0.43	0.38	-4.42	1.00	-5.93	-4.98	-634.30	116.82

477	2	0.33	0.21	-0.59	0.40	-2.86	-0.53	28.86	-7.56	-650.89	147.01
477	3	0.33	0.79	-2.64	2.09	-2.35	0.46	22.22	-14.51	-686.25	131.66
477	4	0.09	0.79	-2.35	2.00	-3.76	-1.25	-7.56	-21.24	-680.12	118.74
478	1	0.09	0.21	0.38	0.27	-3.84	0.77	-39.77	5.24	-583.39	-176.68
478	2	0.35	0.21	0.57	-0.07	-3.69	2.25	21.01	-4.79	-643.22	-163.14
478	3	0.35	0.79	1.92	-3.53	-3.20	10.07	21.14	-10.51	-698.60	-153.70
478	4	0.09	0.79	-0.57	-4.12	-3.12	10.62	-29.61	-5.21	-702.57	-181.39
479	1	0.09	0.21	0.28	-0.68	-3.49	6.31	-16.10	-5.20	-518.46	187.79
479	2	0.33	0.21	0.88	-0.94	-3.32	6.70	45.59	-4.71	-511.72	385.64
479	3	0.33	0.79	5.75	5.85	-2.58	15.18	29.74	20.43	-657.73	258.57
479	4	0.09	0.79	2.63	4.97	-2.69	14.82	-14.86	4.58	-659.53	209.86
480	1	0.09	0.21	-1.74	0.47	-2.75	0.96	-25.23	33.59	-575.29	-432.27
480	2	0.32	0.21	-1.54	0.23	-2.88	0.85	7.01	46.06	-553.04	-406.45
480	3	0.32	0.79	-6.65	-4.82	-1.58	-2.59	10.67	109.16	-679.27	-288.67
480	4	0.09	0.79	-6.00	-4.66	-2.44	-2.41	-14.56	146.56	-650.26	-284.94
481	1	0.13	0.21	-1.06	0.93	-2.25	-0.56	-12.56	-184.14	-686.92	-289.39
481	2	0.47	0.21	-1.32	0.89	-2.03	0.38	-7.77	-192.84	-615.33	-370.45
481	3	0.47	0.79	-4.88	-4.53	-1.71	-6.99	-3.54	-91.73	-634.15	-247.38
481	4	0.13	0.79	-2.82	-4.10	-1.72	-6.47	-10.06	-243.45	-619.23	-187.89
482	1	0.18	0.21	-22.71	-5.52	7.74	22.48	-5.17	-169.14	-516.61	-154.53
482	2	0.67	0.21	-14.84	-6.91	5.67	5.79	-2.30	-179.44	-687.55	-211.90
482	3	0.67	0.79	-16.88	-5.41	1.81	10.38	0.59	-192.31	-656.55	-185.43
482	4	0.18	0.79	-23.18	-3.79	4.12	11.44	-8.36	-152.32	-553.62	-183.91
483	1	0.21	0.21	-44.70	4.60	3.15	-9.92	34.64	-271.14	-492.18	-292.98
483	2	0.78	0.21	-46.67	-5.98	15.84	19.11	17.02	-204.47	-690.89	-242.78
483	3	0.78	0.79	-27.18	2.92	7.58	4.97	2.80	-60.06	-740.30	-186.76
483	4	0.21	0.79	-28.40	6.94	6.39	-19.02	17.88	26.14	-432.42	-170.59
484	1	0.21	0.34	-1.08	7.65	-1.55	-1.29	13.42	-393.13	-32.54	-107.03
484	2	0.79	0.34	0.06	7.94	0.61	-0.23	12.44	-352.70	44.10	-125.98
484	3	0.79	1.28	0.01	22.59	0.09	12.16	13.52	-239.33	17.83	-176.33
484	4	0.21	1.28	4.02	24.12	1.23	-31.26	25.06	-257.16	29.98	-230.74
485	1	0.21	0.29	-2.84	-13.61	0.59	-1.09	13.71	-393.21	22.15	-35.10
485	2	0.79	0.29	-3.16	-13.51	0.50	-0.41	14.67	-364.25	24.40	-46.20
485	3	0.79	1.09	-0.72	-2.08	0.50	-6.74	15.60	-345.50	32.08	-85.30
485	4	0.21	1.09	-0.55	-2.06	0.43	3.24	15.44	-386.86	26.88	-88.37
486	1	0.21	0.32	-5.21	-24.87	0.47	0.64	5.27	-361.45	-0.36	8.43
486	2	0.79	0.32	-5.31	-24.88	0.40	-0.47	5.22	-356.45	11.39	1.77
486	3	0.79	1.19	-4.38	-19.78	0.42	0.04	5.80	-359.39	19.72	-16.71
486	4	0.21	1.19	-4.05	-19.71	0.32	-1.92	6.65	-378.41	16.76	-12.81
487	1	0.21	0.28	-5.07	-24.15	0.50	-0.07	-3.07	-352.85	1.15	4.34
487	2	0.79	0.28	-5.11	-24.19	0.44	-0.05	-3.02	-353.52	8.94	2.71
487	3	0.79	1.06	-5.47	-26.05	0.41	-0.62	-1.68	-352.60	10.47	5.17
487	4	0.21	1.06	-5.44	-26.01	0.36	0.06	-1.70	-351.11	3.56	2.78
488	1	0.30	0.21	-1.03	-0.84	-3.53	-0.91	-7.28	2.74	-644.93	-32.60
488	2	1.10	0.21	-0.67	-1.04	-3.57	-1.06	8.97	8.55	-583.79	-0.52
488	3	1.10	0.79	-1.38	-0.17	-2.68	10.48	11.02	-17.82	-594.81	2.95
488	4	0.30	0.79	-1.90	-0.46	-3.61	-6.27	-9.55	8.84	-684.46	-57.49
489	1	0.23	0.21	2.29	-1.47	-3.07	-2.14	-4.09	-29.57	-690.24	-103.20
489	2	0.86	0.21	0.14	-0.67	-2.37	-1.34	7.78	-11.94	-659.00	-70.08
489	3	0.86	0.79	0.02	-0.33	-1.82	0.98	8.56	-4.17	-698.72	-70.27
489	4	0.23	0.79	2.34	-1.22	-1.81	-2.56	-5.20	-59.24	-704.68	-131.66
490	1	0.09	0.21	-3.52	2.27	-2.79	0.51	-8.13	-44.06	-694.36	118.85
490	2	0.33	0.21	-3.93	2.55	-1.78	-2.14	16.52	-38.54	-725.33	122.48
490	3	0.33	0.79	-4.59	2.58	-0.69	0.86	5.35	-24.61	-743.21	109.66
490	4	0.09	0.79	-3.90	2.27	-0.74	-1.68	-4.20	-18.39	-695.25	101.05
491	1	0.09	0.21	-1.09	-5.87	-2.39	18.69	-21.61	-13.57	-740.86	-161.45
491	2	0.35	0.21	-2.51	-5.06	-2.35	16.19	14.29	-24.41	-711.51	-131.64
491	3	0.35	0.79	-3.10	-5.38	-0.69	18.53	9.05	-11.91	-759.93	-114.09
491	4	0.09	0.79	-1.11	-6.48	-0.82	21.18	-5.10	-11.87	-722.37	-113.[illegible]
492	1	0.09	0.21	3.86	7.03	-2.12	16.22	-13.97	7.20	-739.31	195.59
492	2	0.33	0.21	8.06	7.54	-2.00	19.14	22.15	41.30	-699.54	189.03
492	3	0.33	0.79	9.49	9.67	-0.89	25.88	10.66	62.79	-765.57	129.19
492	4	0.09	0.79	4.30	8.51	-0.92	21.35	-5.74	21.11	-780.27	121.57
493	1	0.09	0.21	-8.19	-6.63	-2.08	-1.97	-10.58	69.43	-674.23	-223.60
493	2	0.32	0.21	-9.24	-6.79	-1.28	-3.87	9.17	21.86	-685.25	-204.45
493	3	0.32	0.79	-10.85	-8.62	-0.81	-6.28	5.35	86.95	-715.76	-135.02
493	4	0.09	0.79	-9.54	-8.16	-1.38	-2.76	-5.02	153.09	-601.24	-172.06
494	1	0.13	0.21	-4.33	-6.28	-1.48	-3.58	-5.83	-204.18	-707.61	8.62
494	2	0.47	0.21	-6.85	-6.43	-1.59	-7.81	-1.71	-61.31	-724.28	-141.16
494	3	0.47	0.79	-8.13	-7.94	-1.37	-9.09	1.72	-336.07	-688.59	-28.28
494	4	0.13	0.79	-5.82	-7.17	-1.44	-5.29	-2.27	-270.79	-636.10	28.82
495	1	0.18	0.21	-23.43	-3.35	3.16	2.37	-1.35	-103.20	-545.96	-117.93
495	2	0.67	0.21	-18.63	-3.89	0.84	5.44	0.40	-156.96	-624.21	-135.72
495	3	0.67	0.79	-21.68	-3.27	0.29	3.25	-2.85	-138.26	-574.47	-72.24
495	4	0.18	0.79	-23.41	-3.32	1.77	2.88	-5.06	-84.90	-537.51	-48.74
496	1	0.21	0.21	-27.65	4.38	3.61	5.33	7.44	11.08	-471.61	-139.98
496	2	0.78	0.21	-25.29	3.74	6.25	-0.34	-12.06	-90.08	-728.04	-106.85
496	3	0.78	0.79	-24.26	1.95	4.83	4.11	-11.57	-39.25	-741.57	-60.31
496	4	0.21	0.79	-26.16	1.76	4.22	0.38	12.09	-7.10	-519.04	-88.70
497	1	0.21	0.34	-0.14	7.84	-0.03	-1.53	19.31	-316.84	42.97	-133.14
497	2	0.79	0.34	-0.16	7.64	-0.19	-2.00	15.21	-293.28	28.47	-129.44
497	3	0.79	1.28	2.20	22.17	-0.37	2.67	15.47	-234.81	23.62	-133.76
497	4	0.21	1.28	3.08	22.65	-0.14	-4.44	11.69	-225.78	15.78	-150.15
498	1	0.21	0.29	-3.50	-13.61	0.34	-1.07	12.73	-338.93	24.04	-50.14
498	2	0.79	0.29	-3.63	-13.77	0.06	-1.20	12.73	-309.19	17.76	-48.46
498	3	0.79	1.09	-1.78	-2.48	0.04	1.11	14.77	-300.57	23.76	-100.27
498	4	0.21	1.09	-1.97	-2.41	0.30	2.32	12.36	-337.23	28.53	-85.88
499	1	0.21	0.32	-5.33	-24.88	0.33	0.08	5.16	-349.71	18.34	0.14
499	2	0.79	0.32	-5.38	-24.98	0.27	-0.54	5.03	-343.26	27.19	2.95
499	3	0.79	1.19	-4.58	-19.75	0.21	0.16	6.56	-323.79	16.46	-22.16
499	4	0.21	1.19	-4.41	-19.74	0.40	-0.10	6.99	-345.52	18.69	-20.14
500	1	0.21	0.28	-5.12	-24.23	0.42	-0.18	-3.12	-354.19	15.06	2.48
500	2	0.79	0.28	-5.14	-24.29	0.42	0.02	-3.05	-353.84	21.35	3.25
500	3	0.79	1.06	-5.53	-26.12	0.39	-0.62	-1.74	-354.21	20.61	-0.54
500	4	0.21	1.06	-5.54	-26.09	0.41	0.48	-1.85	-353.68	15.77	4.35
501	1	0.30	0.25	-2.12	0.22	-2.80	2.46	-2.16	-21.07	-700.28	-29.54
501	2	1.10	0.37	-2.66	1.80	-3.01	-1.79	9.06	-46.16	-613.85	-22.81
501	3	1.10	0.95	-6.97	2.28	-2.54	-10.04	-12.77	-32.05	-460.08	-35.68
501	4	0.30	0.93	-3.79	1.05	-1.26	4.92	-3.96	-59.69	-821.92	97.87
502	1	0.23	0.21	1.45	-1.03	-1.91	-4.30	-4.82	-43.51	-676.30	-131.41
502	2	0.86	0.21	-0.94	-1.20	-1.51	-3.60	-1.91	-5.75	-752.83	-103.48
502	3	0.86	0.79	-1.96	-0.21	-1.40	-2.22	10.05	-44.00	-838.58	-255.68
502	4	0.23	0.79	-0.24	-0.36	-0.31	-4.10	-4.16	-10.62	-629.76	-105.32
503	1	0.09	0.21	-3.43	1.51	0.50	-1.42	-7.14	-47.53	-740.69	115.46
503	2	0.33	0.21	-4.17	1.48	0.16	-0.44	-2.76	-40.47	-731.58	105.98
503	3	0.33	0.79	-1.69	0.62	0.83	-2.83	-6.56	-26.47	-685.96	89.87
503	4	0.09	0.79	-2.34	0.60	1.32	-0.88	0.74	-26.52	-664.61	113.29
504	1	0.89	0.21	-0.72	-4.96	0.69	18.62	10.05	-13.92	-762.43	-73.95
504	2	0.35	0.21	3.02	-4.21	0.73	17.55	-0.59	-29.68	-738.74	-90.50
504	3	0.35	0.79	1.10	-1.10	1.93	8.06	-7.71	-15.82	-694.77	-69.10
504	4	0.89	0.79	-0.27	-1.67	1.91	6.88	21.00	-11.90	-697.06	-38.57
505	1	0.23	0.21	2.65	-1.45	0.62	12.09	-2.83	-23.30	-762.70	-90.24
505	2	0.86	0.21	0.96	-1.29	0.37	21.91	-13.75	-36.62	-753.70	-94.17
505	3	0.86	0.79	1.18	2.33	1.61	7.61	-26.01	-2.45	-685.95	-21.24
505	4	0.23	0.79	1.70	2.00	1.72	8.85	2.29	-2.82	-697.68	10.40
506	1	0.09	0.21	-0.66	-2.69	-1.01	1.24	8.90	157.71	-688.50	-17.47

506	2	0.32	0.21	-9.50	-7.76	-0.32	4.19	10.51	118.42	-731.88	-33.35
506	3	0.32	0.79	-4.08	-2.61	0.15	2.74	10.03	3.93	-687.69	43.77
506	4	0.09	0.79	-4.73	-2.73	-0.48	3.00	16.29	1.50	-694.06	73.14
507	1	0.13	0.21	-6.07	-6.24	-1.89	-3.62	3.70	-290.76	-565.94	92.77
507	2	0.47	0.21	-7.58	-6.96	-1.58	-6.69	7.30	-401.16	-721.54	134.09
507	3	0.47	0.79	-4.80	-3.16	-1.47	1.06	10.79	-193.92	-680.43	125.78
507	4	0.13	0.79	-5.36	-3.48	-2.15	2.06	7.18	-229.75	-584.55	115.47
508	1	0.18	0.21	-23.76	-3.50	1.58	2.92	-4.06	-78.00	-532.08	-5.64
508	2	0.67	0.21	-23.09	-3.25	0.51	1.98	-0.29	-130.46	-549.16	-26.83
508	3	0.67	0.79	-23.67	-3.43	0.92	2.36	-1.72	-135.45	-514.92	42.41
508	4	0.18	0.79	-24.59	-4.08	1.69	2.24	-4.94	-87.59	-523.38	45.78
509	1	0.21	0.21	-26.85	0.40	3.13	2.37	6.57	5.58	-553.64	-63.11
509	2	0.78	0.21	-25.52	0.18	5.20	1.53	-12.71	-28.07	-762.72	-14.91
509	3	0.78	0.79	-25.78	-2.40	4.86	3.92	-12.10	-71.64	-796.37	53.24
509	4	0.21	0.79	-26.55	-3.06	3.51	2.18	7.07	22.96	-650.20	-38.58
510	1	0.21	0.34	-0.06	7.55	-0.49	0.66	14.84	-285.97	23.84	-133.69
510	2	0.79	0.34	0.30	7.66	-0.67	-0.13	18.61	-266.24	33.87	-161.82
510	3	0.79	1.28	3.56	22.23	-0.44	7.03	14.86	-300.47	10.36	-95.83
510	4	0.21	1.28	2.25	22.01	-0.42	-0.36	14.45	-259.10	20.37	-118.18
511	1	0.21	0.29	-3.58	-13.84	-0.09	0.25	12.88	-279.89	9.17	-49.38
511	2	0.79	0.29	-3.35	-13.94	-0.32	-0.28	12.87	-244.39	-11.50	-52.96
511	3	0.79	1.09	-1.63	-2.84	-0.42	-0.64	12.56	-235.74	-11.79	-101.19
511	4	0.21	1.09	-1.64	-2.57	-0.20	0.18	15.48	-269.49	13.87	-104.60
512	1	0.21	0.32	-5.37	-25.06	0.22	-0.02	5.09	-346.66	26.53	1.21
512	2	0.79	0.32	-5.30	-25.14	0.17	-0.60	5.12	-346.98	25.06	-4.06
512	3	0.79	1.19	-4.33	-20.02	-0.02	0.37	6.93	-277.78	33.10	11.87
512	4	0.21	1.19	-4.54	-19.83	0.11	0.21	6.31	-310.05	17.81	-17.00
513	1	0.21	0.28	-5.13	-24.33	0.41	-0.21	-3.09	-355.98	24.27	3.47
513	2	0.79	0.28	-5.10	-24.41	0.40	-0.04	-3.22	-352.80	24.66	-0.09
513	3	0.79	1.06	-5.52	-26.31	0.32	-0.42	-1.81	-351.39	27.85	-0.25
513	4	0.21	1.06	-5.53	-26.18	0.34	0.60	-1.73	-344.64	26.48	1.34
514	1	0.36	0.08	-1.74	-0.28	-0.47	-18.74	1.38	-111.61	49.94	-37.96
514	2	1.35	0.08	-15.38	1.37	2.41	-15.45	9.94	-101.93	-21.28	41.65
514	3	1.35	0.32	-16.44	0.30	-3.42	-12.61	-15.71	-186.14	-117.69	-43.96
514	4	0.36	0.32	-1.15	-0.12	-0.05	-11.64	3.42	-176.18	51.87	35.68
515	1	0.32	0.08	14.56	0.16	-0.48	-13.06	1.49	-127.81	27.61	-27.74
515	2	1.19	0.08	-7.01	-0.65	-1.08	-11.75	-6.39	-118.73	-57.42	34.55
515	3	1.19	0.32	6.57	-0.51	0.19	-5.29	1.75	-170.16	-29.99	-36.97
515	4	0.32	0.32	14.75	0.20	-0.35	-6.03	3.00	-160.93	26.76	25.30
516	1	0.28	0.08	-18.77	-0.01	-0.14	-7.51	1.10	-134.12	-15.59	-23.86
516	2	1.06	0.08	-21.91	-0.01	-0.49	-8.08	-1.83	-141.99	4.47	23.57
516	3	1.06	0.32	-21.78	-0.01	-0.42	-8.86	-3.26	-147.26	6.31	-21.23
516	4	0.28	0.32	-18.68	0.07	-0.69	0.38	3.79	-155.17	-23.35	26.20
517	1	0.17	0.12	27.59	-1.06	-0.09	-5.85	1.27	-358.69	-108.83	20.56
517	2	0.62	0.12	22.93	0.06	-0.15	-7.67	0.03	-327.77	-237.60	45.12
517	3	0.53	0.45	24.11	0.19	1.19	-7.34	0.38	-313.87	-192.48	-23.54
517	4	0.14	0.44	28.14	-0.67	0.93	-5.81	3.89	-365.66	-116.34	32.54
518	1	0.12	0.12	19.01	0.78	-0.34	-8.10	1.26	-349.43	-262.27	89.82
518	2	0.56	0.13	14.10	1.60	-0.66	-7.61	0.62	-291.52	-311.67	28.21
518	3	0.37	0.50	16.01	1.89	1.02	-5.50	-1.05	-335.82	-217.94	-21.45
518	4	-0.02	0.47	20.43	0.91	1.20	-7.61	1.74	-434.14	-141.90	78.55
519	1	0.08	0.14	11.21	1.76	-0.94	-6.61	2.92	-237.87	-406.39	-23.28
519	2	0.33	0.16	8.00	1.08	-1.06	-5.49	2.89	-159.95	-317.39	-53.95
519	3	0.19	0.59	9.94	3.33	-0.91	-4.53	2.02	-246.09	-301.24	-37.24
519	4	-0.18	0.53	12.96	2.48	0.97	-4.95	0.54	-297.33	-286.61	-55.02
520	1	0.13	0.12	28.68	0.15	0.66	-6.36	6.99	-401.09	-102.07	25.77
520	2	0.47	0.12	24.93	0.68	0.91	-9.95	3.36	-340.92	-142.67	-61.68
520	3	0.39	0.45	27.51	0.99	2.71	-6.83	2.09	-465.20	-10.30	46.71
520	4	0.12	0.44	31.48	0.61	0.83	-14.17	5.32	-463.65	-41.86	-9.64
521	1	0.10	0.13	21.80	0.98	-0.54	-12.05	3.37	-405.87	0.57	50.45
521	2	0.43	0.14	17.48	1.48	-0.21	-11.72	-0.15	-345.43	-154.95	-9.18
521	3	0.27	0.53	19.81	1.28	2.96	1.16	0.93	-351.80	-47.83	-55.88
521	4	0.00	0.48	24.59	0.80	1.82	-2.44	3.28	-429.53	-26.59	-40.95
522	1	0.06	0.16	14.50	2.10	-1.01	-11.85	0.67	-343.56	-173.02	-31.78
522	2	0.28	0.18	11.15	2.85	-0.65	-9.78	-2.37	-316.79	-237.34	-118.39
522	3	0.14	0.67	13.16	2.09	2.83	2.13	0.44	-260.48	-91.39	-102.82
522	4	-0.12	0.59	17.11	1.22	2.14	1.62	1.49	-310.15	-32.96	-67.52
523	1	0.16	0.12	-30.00	1.64	-0.20	-2.86	-0.65	-375.08	-103.77	-55.91
523	2	0.31	0.12	-30.98	1.88	-0.37	-0.28	-0.49	-330.31	-177.62	-34.51
523	3	0.52	0.45	-31.70	1.89	-0.41	-1.09	-3.02	-393.58	-164.47	-76.12
523	4	0.14	0.44	-30.34	1.34	0.42	-4.56	-2.74	-407.44	-122.56	-61.05
524	1	0.12	0.12	-30.33	1.45	-0.49	1.51	0.13	-368.16	-305.95	-118.58
524	2	0.57	0.13	-28.27	0.05	-0.40	1.82	-0.90	-278.71	-293.96	-48.22
524	3	0.36	0.50	-29.73	1.19	-2.49	-1.03	2.48	-312.45	-289.72	-121.72
524	4	0.01	0.47	-31.18	1.88	-1.30	-1.57	-1.78	-357.85	-218.64	-102.37
525	1	0.08	0.14	-26.69	-0.73	-0.26	2.63	-0.24	-238.45	-361.29	-21.40
525	2	0.52	0.16	-24.95	-1.84	-0.20	1.13	3.19	-181.36	-438.61	7.08
525	3	0.19	0.58	-25.89	-2.02	-2.64	-6.50	-3.13	-218.99	-425.22	-79.23
525	4	-0.18	0.53	-27.65	0.19	-2.69	-5.11	0.32	-280.38	-364.62	-109.88
526	1	0.13	0.12	-30.59	0.11	2.71	-2.15	-6.54	-421.06	-95.78	-29.96
526	2	0.46	0.12	-32.10	1.18	2.20	3.81	-6.91	-426.12	-123.36	-82.78
526	3	0.39	0.45	-34.46	-0.13	-0.52	-28.30	-8.90	-483.42	-46.43	-75.77
526	4	0.12	0.44	-33.21	-0.57	1.77	-21.05	-5.19	-476.74	-16.82	-8.48
527	1	0.10	0.13	-31.95	1.41	4.14	9.47	-5.48	-420.63	-142.26	-89.83
527	2	0.43	0.14	-30.99	2.40	3.20	13.63	-3.39	-408.11	-231.23	-155.42
527	3	0.27	0.53	-33.05	0.54	-1.80	-35.33	-11.55	-484.23	-112.68	-163.34
527	4	0.00	0.48	-34.30	0.17	0.39	-33.37	-10.05	-496.90	-59.67	-91.14
528	1	0.06	0.16	-29.36	2.02	4.52	19.63	0.07	-380.67	-254.01	-156.96
528	2	0.39	0.18	-27.05	2.17	3.18	17.27	9.03	-330.46	-355.38	-176.36
528	3	0.14	0.66	-28.94	1.69	-2.49	-29.98	-15.77	-493.88	-226.81	-263.67
528	4	-0.11	0.59	-31.76	1.45	-0.55	-35.62	-12.46	-513.17	-136.12	-191.97
529	1	0.36	0.12	-2.66	-24.88	0.97	1.21	0.80	-476.30	-155.88	4.12
529	2	0.90	0.10	-2.38	-23.09	2.09	3.97	-1.67	-517.23	-151.02	66.37
529	3	1.11	0.37	-1.72	-22.79	3.52	-0.37	0.92	-537.10	-188.09	136.83
529	4	0.76	0.36	-1.30	-23.31	1.94	-0.88	1.96	-427.05	-199.29	93.52
530	1	0.30	0.09	-2.14	-21.36	2.98	3.15	3.85	-561.44	-158.05	114.16
530	2	0.85	0.07	-2.74	-17.81	3.66	4.82	2.33	-616.91	-180.76	169.40
530	3	1.01	0.27	-3.26	-15.82	5.54	5.52	5.13	-676.69	-202.62	211.62
530	4	0.54	0.27	-1.28	-20.44	4.23	3.94	-0.75	-596.37	-191.21	171.37
531	1	0.23	0.27	-4.51	-13.99	3.19	4.81	6.54	-659.12	-190.86	194.98
531	2	0.80	0.26	-6.44	-10.17	0.19	-2.97	8.98	-666.97	-164.30	177.83
531	3	0.83	0.22	-7.75	-7.01	0.62	-1.70	9.27	-736.23	-136.56	164.32
531	4	0.35	0.24	-5.37	-10.49	4.54	3.54	8.44	-725.61	-186.32	212.71
532	1	0.27	0.16	-3.72	-23.11	11.27	14.14	-6.51	-534.25	-168.66	80.01
532	2	0.63	0.13	-4.46	-18.40	12.14	17.29	-0.06	-638.25	-147.42	99.41
532	3	0.49	0.49	-8.68	-10.92	10.98	15.84	15.49	-781.48	-138.81	249.89
532	4	0.21	0.47	-8.39	-17.05	12.74	16.18	19.45	-892.14	-194.24	262.06
533	1	0.24	0.18	-4.33	-16.27	11.05	14.39	8.43	-697.48	-164.03	162.17
533	2	0.35	0.08	-6.74	-9.68	8.78	3.61	7.11	-803.39	-144.44	161.25
533	3	0.78	0.30	-9.31	-2.81	9.72	-31.79	10.66	-1005.07	-90.08	205.91
533	4	0.61	0.27	-7.37	-7.77	7.85	-25.62	15.20	-947.48	-158.94	244.57
534	1	0.36	0.12	-5.96	-5.80	7.83	-17.42	12.42	-826.59	-146.44	199.78
534	2	0.74	0.14	-6.09	-0.81	6.36	-7.81	9.36	-815.22	-86.28	180.93
534	3	0.54	0.23	-8.81	-0.63	-0.37	0.95	4.05	-915.17	-23.32	31.62
534	4	0.29	0.20	-8.80	2.80	3.94	-21.37	10.20	-987.88	-79.65	200.67
535	1	0.10	0.14	-8.87	-10.32	-1.67	-11.96	9.27	-623.20	-137.52	100.47

535	2	0.75	0.07	-6.13	-14.72	-6.25	-4.13	6.06	-518.46	-135.35	3.02
535	3	0.65	0.24	-6.66	-11.42	-7.45	-3.52	7.31	-548.94	-100.09	-20.95
535	4	0.17	0.22	-8.29	-7.46	-3.89	0.26	9.65	-665.95	-102.06	73.24
536	1	0.15	0.07	-4.76	-18.45	-6.21	-4.05	3.21	-460.71	-182.52	-47.40
536	2	0.70	0.09	-4.04	-21.74	-4.90	-0.55	5.00	-384.95	-210.66	-99.45
536	3	0.46	0.32	-2.99	-20.95	-6.07	-2.55	0.30	-402.86	-173.42	-114.01
536	4	-0.01	0.27	-4.99	-16.78	-8.03	-5.10	5.08	-455.02	-148.99	-59.72
537	1	0.10	0.10	-3.83	-23.10	-3.63	-1.59	0.19	-473.20	-173.46	-133.21
537	2	0.64	0.12	-3.43	-24.32	-2.26	1.11	2.15	-458.94	-191.56	-79.25
537	3	0.24	0.46	-2.37	-22.93	-3.02	2.31	3.02	-386.50	-207.59	-106.86
537	4	-0.21	0.37	-3.20	-22.93	-4.96	2.45	2.11	-398.00	-169.23	-133.58
538	1	0.16	0.06	-9.92	-4.10	-3.37	1.52	9.30	-702.77	-90.57	81.56
538	2	0.58	0.07	-8.84	-7.83	-8.32	-2.00	11.41	-570.62	-73.43	-28.75
538	3	0.49	0.25	-10.93	-3.34	-5.57	33.43	11.06	-586.86	-33.27	-88.75
538	4	0.14	0.23	-10.53	-0.64	-1.11	14.01	4.81	-789.27	-28.57	36.86
539	1	0.12	0.08	-8.94	-10.24	-11.31	-3.82	6.51	-477.36	-89.62	-42.15
539	2	0.53	0.10	-6.39	-17.18	-12.86	-13.50	7.99	-426.46	-89.65	-96.02
539	3	0.33	0.37	-9.88	-8.67	-10.60	41.51	16.19	-397.77	-71.90	-132.49
539	4	-0.01	0.30	-11.94	-3.43	-7.40	41.08	11.74	-524.74	-38.83	-82.10
540	1	0.07	0.13	-6.41	-18.26	-13.26	-16.04	0.24	-414.10	-97.75	-78.89
540	2	0.46	0.16	-5.10	-22.51	-11.84	-11.68	-5.50	-378.78	-144.80	-81.58
540	3	0.16	0.59	-7.65	-17.06	-13.30	28.65	20.39	-279.80	-100.22	-125.89
540	4	-0.16	0.47	-10.71	-11.31	-12.10	39.82	16.20	-367.16	-57.63	-112.40
541	1	0.29	0.16	-24.08	-2.40	1.36	-0.22	0.60	-203.32	-445.12	55.70
541	2	0.74	0.14	-25.15	-1.33	1.00	-1.57	-1.35	-260.85	-359.61	19.67
541	3	1.00	0.53	-26.33	-0.45	3.08	6.43	-0.83	-284.48	-270.26	52.21
541	4	0.63	0.58	-25.09	-2.83	3.48	7.42	-4.06	-234.18	-348.96	83.34
542	1	0.25	0.13	-26.29	-0.55	0.79	-0.27	-2.11	-312.43	-308.18	-14.07
542	2	0.69	0.12	-27.68	0.85	0.33	-0.72	-0.71	-363.43	-152.40	-45.47
542	3	0.83	0.47	-28.81	1.40	0.91	2.80	-2.40	-338.62	-156.47	7.87
542	4	0.45	0.50	-27.96	0.66	2.53	2.32	1.03	-335.37	-222.08	6.15
543	1	0.20	0.12	-27.95	1.26	-0.17	1.35	-1.32	-341.00	-132.91	14.85
543	2	0.65	0.12	-26.61	1.01	-0.77	3.00	-1.08	-400.50	-121.50	-58.16
543	3	0.68	0.44	-27.19	0.87	-1.41	5.23	-2.56	-397.40	-101.63	-37.78
543	4	0.29	0.45	-28.92	1.41	-0.27	2.38	-3.41	-370.79	-99.95	-0.26
544	1	0.22	0.18	-26.75	1.72	-2.30	-15.29	7.40	-280.76	-237.17	109.66
544	2	0.54	0.16	-28.40	1.63	-3.94	-17.20	-0.88	-311.64	-168.19	59.57
544	3	0.72	0.59	-30.90	1.28	0.68	37.44	-13.04	-296.55	-59.23	67.77
544	4	0.46	0.66	-28.97	1.32	3.01	31.65	-17.20	-259.41	-109.88	115.49
545	1	0.19	0.14	-29.41	1.99	-3.03	-11.55	-4.03	-336.85	-87.74	27.42
545	2	0.52	0.13	-29.69	1.07	-4.36	-7.48	-5.36	-340.14	-71.36	35.38
545	3	0.62	0.48	-31.94	0.16	-0.76	35.95	-9.81	-359.06	-13.56	41.24
545	4	0.35	0.53	-31.55	0.45	1.62	37.30	-11.85	-313.80	-36.51	79.27
546	1	0.16	0.12	-29.44	0.94	-2.89	-2.93	-6.60	-370.95	-67.47	5.00
546	2	0.50	0.12	-27.54	-0.18	-3.69	2.36	-5.92	-385.69	-69.32	-28.15
546	3	0.51	0.44	-30.03	-0.57	-2.38	25.53	-4.50	-407.88	-25.26	-8.67
546	4	0.23	0.45	-31.71	-0.06	-0.89	31.76	-8.77	-371.20	-39.57	41.24
547	1	0.17	0.12	-24.16	0.38	-1.12	5.93	-1.41	-399.76	-121.13	-56.48
547	2	0.62	0.12	-19.66	-0.70	-1.49	6.60	0.42	-366.76	-221.31	-67.39
547	3	0.53	0.45	-21.00	-0.52	-2.54	7.62	-0.06	-396.28	-193.10	-86.64
547	4	0.14	0.44	-24.93	0.19	-2.08	6.34	-3.92	-408.76	-95.17	-53.98
548	1	0.12	0.12	-16.03	-1.36	-1.69	7.92	-0.04	-406.82	-144.99	-169.46
548	2	0.58	0.13	-11.63	-2.07	-1.98	5.87	1.70	-347.36	-320.57	-71.84
548	3	0.37	0.50	-13.65	-1.20	-2.91	6.56	2.86	-383.65	-326.33	-151.97
548	4	0.82	0.47	-17.68	-0.93	-2.76	8.70	-1.19	-368.47	-246.80	-115.60
549	1	0.08	0.14	-8.96	-2.08	-2.14	7.09	2.15	-291.67	-398.39	-21.60
549	2	0.53	0.16	-6.23	-1.57	-2.19	5.07	5.72	-221.67	-516.60	28.43
549	3	0.19	0.59	-7.87	-1.04	-2.66	5.11	1.64	-233.79	-497.56	-81.40
549	4	-0.38	0.53	-10.75	-1.11	-2.83	6.69	2.06	-305.35	-419.56	-130.
550	1	0.13	0.12	-25.66	-0.31	-2.05	5.53	-6.42	-418.16	-82.93	-36.80
550	2	0.47	0.12	-22.03	-0.85	-2.41	9.18	-3.29	-417.05	-122.56	-90.07
550	3	0.39	0.45	-24.52	-1.02	-3.30	11.88	-1.38	-436.39	-90.62	-74.76
550	4	0.12	0.44	-28.36	-0.61	-1.61	19.51	-5.01	-419.72	-21.56	-11.18
551	1	0.10	0.13	-19.26	-0.72	-1.04	10.54	-3.31	-421.19	-156.30	-106.52
551	2	0.43	0.14	-15.37	-0.50	-1.20	12.69	-0.33	-414.04	-257.41	-183.32
551	3	0.27	0.53	-17.57	-0.99	-3.19	2.74	-0.33	-456.32	-121.96	-166.94
551	4	0.00	0.48	-21.95	-0.89	-2.49	7.82	-2.96	-455.29	-58.29	-90.03
552	1	0.06	0.16	-13.09	-0.03	-0.25	13.07	-0.03	-395.42	-286.75	-188.39
552	2	0.39	0.18	-9.81	0.81	-0.41	12.86	4.63	-340.09	-419.24	-207.14
552	3	0.14	0.37	-11.37	0.09	-1.96	0.72	-1.63	-492.99	-255.33	-286.56
552	4	-0.12	0.59	-15.09	-0.36	-2.06	1.77	-1.64	-497.68	-148.42	-204.57
553	1	0.36	0.13	-0.72	-5.12	2.16	4.66	-7.13	-524.43	-173.51	-18.65
553	2	0.90	0.10	1.33	-3.51	1.67	5.00	-7.57	-624.82	-142.86	56.34
553	3	1.21	0.39	1.47	-4.81	1.77	3.25	-7.09	-643.02	-170.60	134.09
553	4	0.77	0.47	0.12	-5.91	2.09	2.54	-5.65	-567.60	-203.53	94.70
554	1	0.30	0.09	2.53	-2.51	1.40	4.26	-7.05	-673.43	-137.54	104.67
554	2	0.85	0.08	3.68	-1.52	1.09	1.86	-7.27	-736.57	-170.01	159.72
554	3	1.01	0.28	3.50	-2.29	1.25	1.55	-4.15	-810.88	-197.27	212.84
554	4	0.54	0.33	2.81	-3.59	1.31	2.84	-7.94	-716.19	-176.42	167.86
555	1	0.25	0.07	3.71	-1.19	0.92	-0.12	-3.34	-776.50	-173.32	197.38
555	2	0.80	0.06	1.58	-0.98	0.47	-5.71	-1.49	-808.74	-184.08	244.31
555	3	0.83	0.24	1.17	-0.96	0.65	-6.17	-1.77	-681.94	-155.19	203.42
555	4	0.35	0.25	3.25	-1.59	1.15	-1.00	-1.13	-867.82	-190.23	232.93
556	1	0.27	0.16	-1.24	-6.31	4.44	9.79	-9.06	-618.32	-139.46	63.71
556	2	0.66	0.13	0.40	-4.18	4.07	10.65	-6.03	-743.28	-137.94	69.73
556	3	0.89	0.68	-0.53	-2.89	3.04	-6.17	1.18	-889.14	-138.01	261.49
556	4	0.57	0.60	-2.30	-5.43	4.59	-1.91	-0.41	-657.18	-188.44	267.69
557	1	0.24	0.10	1.97	-3.63	3.26	8.05	-3.52	-818.59	-158.78	148.92
557	2	0.65	0.08	2.64	-1.64	2.44	2.70	-2.05	-950.22	-142.10	151.83
557	3	0.78	0.31	2.14	-0.55	1.09	-12.21	2.65	-1214.52	-105.35	238.77
557	4	0.44	0.38	1.19	-2.02	1.89	-8.90	1.88	-994.29	-162.60	323.35
558	1	0.20	0.07	2.70	-1.23	1.58	-1.48	1.07	-1002.10	-174.85	221.20
558	2	0.62	0.06	0.74	-0.50	0.72	-6.61	0.22	-974.64	-86.17	139.07
558	3	0.63	0.24	0.50	-0.03	0.26	-12.24	-0.43	-1136.26	-25.14	54.46
558	4	0.29	0.26	2.28	-0.59	0.72	-12.19	3.18	-1222.23	-94.61	233.76
559	1	0.20	0.06	-1.48	-1.50	-0.07	-6.85	0.62	-757.03	-116.86	171.20
559	2	0.75	0.07	-4.62	-3.07	-0.64	-5.72	1.57	-617.34	-155.98	128.94
559	3	0.65	0.25	-4.25	-2.01	-1.00	-6.06	-0.28	-592.23	-187.55	105.91
559	4	0.37	0.24	-1.57	-0.99	-0.04	-7.20	2.52	-805.42	-84.20	145.05
560	1	0.15	0.08	-5.87	-4.76	-0.70	-4.90	3.29	-691.48	-309.24	-58.05
560	2	0.20	0.09	-5.65	-6.36	0.02	0.46	0.95	-569.84	-183.38	-111.09
560	3	0.46	0.33	-5.49	-5.79	-1.04	-3.30	0.85	-525.36	-184.59	-136.45
560	4	-0.01	0.28	-5.41	-3.85	-1.39	-6.28	2.35	-686.75	-148.01	21.78
561	1	0.10	0.10	-4.52	-7.05	0.60	1.91	-0.71	-561.91	-221.85	-128.63
561	2	0.44	0.13	-2.49	-7.45	0.94	3.35	-3.64	-580.22	-169.44	-104.52
561	3	0.63	0.37	-3.69	-8.33	0.26	0.30	-3.55	-437.55	-231.55	-123.07
561	4	0.31	0.34	-3.83	-7.25	-0.52	0.22	-1.35	-471.86	-213.13	-147.91
562	1	0.36	0.06	-1.69	-0.65	0.14	-7.38	1.34	-841.55	-108.08	155.26
562	2	0.58	0.07	-4.33	-1.29	-0.89	-6.69	0.67	-574.35	-79.73	-28.16
562	3	0.89	0.26	-4.42	-0.65	-0.90	-6.26	-0.81	-671.92	-14.86	-86.84
562	4	0.51	0.28	-1.57	-0.10	0.18	-10.74	1.69	-928.02	-44.09	-51.24
563	1	0.31	0.11	-5.75	-2.19	-1.56	-4.69	1.73	-618.17	-37.54	-37.30
563	2	0.61	0.18	-6.08	-1.41	-2.23	-4.84	2.12	-504.90	-142.61	-75.87
563	3	0.47	0.38	-6.61	-2.16	-2.93	-0.87	0.07	-361.76	-66.80	-66.13
563	4	0.61	0.31	-5.94	-0.49	-1.42	-4.85	0.31	-542.87	-32.27	-49.65
564	1	0.47	0.23	-5.83	-5.91	-2.40	-4.76	-0.54	-479.22	-98.98	-73.58

564	2	0.46	0.16	-4.92	-9.69	-2.68	-2.87	-3.46	-410.42	-170.53	-101.04
564	3	0.16	0.60	-6.56	-6.38	-5.00	-0.48	2.06	-241.98	-105.05	-118.47
564	4	-0.16	0.48	-7.12	-3.25	-3.48	0.26	1.42	-298.56	-54.75	-109.61
565	1	0.13	0.21	-3.91	-0.72	-1.80	5.27	7.16	-158.54	-615.66	61.82
565	2	0.47	0.21	-2.22	0.03	-1.04	7.60	8.34	-81.36	-654.00	37.51
565	3	0.47	0.79	0.46	2.28	-0.63	8.66	5.15	-76.54	-636.94	-22.48
565	4	0.13	0.79	-2.23	1.48	-1.36	8.68	4.99	-109.24	-639.76	-28.50
566	1	0.09	0.21	-1.04	0.52	-0.10	4.14	10.20	-62.68	-651.21	25.76
566	2	0.32	0.21	0.27	1.14	0.27	8.90	3.02	-46.66	-638.31	18.31
566	3	0.32	0.79	3.58	3.06	0.21	6.57	0.34	-44.15	-605.84	-32.83
566	4	0.09	0.79	2.21	2.81	0.05	6.08	4.97	-61.56	-617.22	-27.13
567	1	0.09	0.21	-0.31	-1.42	1.37	-1.16	5.97	-15.41	-639.90	24.77
567	2	0.33	0.21	-0.53	-1.68	1.33	-5.49	-16.64	-27.43	-636.24	-2.30
567	3	0.33	0.79	-3.48	-3.50	0.75	-8.87	-6.96	-26.75	-600.63	40.99
567	4	0.09	0.79	-1.80	-3.30	0.75	-8.22	4.55	-12.78	-592.52	53.22
568	1	0.09	0.21	-0.13	0.94	1.65	-3.87	16.15	-3.75	-640.42	-40.30
568	2	0.35	0.21	-0.53	0.46	1.79	-3.24	-9.03	0.00	-639.83	-69.15
568	3	0.35	0.79	-2.02	1.96	0.96	-10.85	-5.18	12.66	-600.35	-79.89
568	4	0.09	0.79	0.12	2.28	0.89	-10.72	8.54	5.02	-591.61	-64.11
569	1	0.09	0.21	1.15	0.04	1.27	-2.70	-0.53	3.69	-646.34	110.21
569	2	0.33	0.21	0.90	-0.25	0.76	-1.35	-6.99	7.66	-641.68	84.01
569	3	0.33	0.79	3.00	-0.62	0.48	-0.78	-3.96	19.38	-596.76	91.32
569	4	0.09	0.79	3.10	-0.65	0.88	-0.41	0.17	23.63	-574.09	103.55
570	1	0.23	0.21	-1.30	0.22	0.11	-0.02	-1.74	-16.44	-662.72	-103.10
570	2	0.86	0.21	-2.12	0.72	-0.63	2.47	-2.99	8.32	-423.60	-246.97
570	3	0.86	0.79	-2.02	0.14	-0.84	1.61	-1.86	-20.50	-493.57	-99.18
570	4	0.23	0.79	-2.71	0.43	0.25	0.03	-2.17	19.33	-615.91	-122.68
571	1	0.30	0.17	-1.96	1.16	-1.01	-3.02	-0.86	16.48	-409.83	104.15
571	2	1.10	0.05	-7.26	2.02	-0.59	-2.99	14.43	-50.83	-659.45	-50.42
571	3	1.10	0.63	-2.67	1.74	0.43	0.80	-4.27	3.26	-614.45	15.25
571	4	0.30	0.75	-2.73	0.44	-0.42	-1.31	1.54	-19.39	-530.25	-16.78
572	1	0.18	0.21	-24.91	-4.78	2.00	3.64	-4.75	-137.70	-530.34	105.38
572	2	0.67	0.21	-23.91	-3.92	1.45	2.54	1.32	-165.74	-490.09	82.93
572	3	0.67	0.79	-23.55	-4.49	2.51	3.16	0.85	-220.62	-497.31	66.59
572	4	0.18	0.79	-24.57	-5.61	2.36	4.91	-4.12	-217.70	-477.02	97.58
573	1	0.21	0.21	-26.94	-4.67	3.53	0.71	9.51	4.57	-741.14	3.08
573	2	0.78	0.21	-25.77	-4.79	5.08	1.81	-14.79	-76.24	-824.99	107.75
573	3	0.78	0.79	-25.57	-8.76	5.28	3.59	-14.00	-235.38	-789.12	130.68
573	4	0.21	0.79	-29.10	-9.29	3.78	7.14	1.64	-280.73	-950.21	175.51
574	1	0.21	0.34	0.75	7.41	-1.19	-1.07	14.06	-331.69	25.00	-168.07
574	2	0.79	0.34	1.82	6.65	-1.49	-1.44	15.63	-323.91	9.33	-126.64
574	3	0.79	1.28	6.41	23.95	-1.13	31.33	21.14	-404.74	16.48	-76.38
574	4	0.21	1.28	1.38	22.10	-0.95	-7.22	12.13	-326.95	17.90	-88.45
575	1	0.21	0.29	-2.99	-14.01	-0.38	-0.18	14.43	-135.55	-18.18	-7.97
575	2	0.79	0.29	-2.68	-14.30	-0.34	-1.11	13.07	-95.59	16.09	96.45
575	3	0.79	1.09	-0.39	-2.75	-0.43	-3.16	16.68	-89.68	11.31	-244.52
575	4	0.21	1.09	-0.45	-2.69	-0.42	6.29	15.51	-137.05	-27.81	-142.32
576	1	0.21	0.32	-5.24	-25.26	0.14	-0.08	5.15	-342.85	36.17	-7.88
576	2	0.79	0.32	-5.16	-25.42	0.14	-0.78	5.19	-344.28	25.15	-12.19
576	3	0.79	1.19	-2.95	-20.31	0.03	1.35	6.88	-321.87	26.82	-15.72
576	4	0.21	1.19	-4.31	-20.20	-0.05	0.09	6.04	-342.90	33.90	26.79
577	1	0.21	0.28	-5.08	-24.47	0.39	-0.14	-3.10	-351.03	19.06	-1.13
577	2	0.79	0.28	-5.04	-24.55	0.38	-0.05	-3.18	-344.18	12.38	-4.17
577	3	0.79	1.06	-5.43	-26.49	0.34	-0.45	-1.77	-350.35	11.25	-5.99
577	4	0.21	1.06	-5.44	-26.38	0.32	0.53	-1.72	-345.11	21.41	-5.45
578	1	0.30	0.21	-2.48	-0.21	-0.13	-0.23	-0.96	-22.82	-552.25	-45.05
578	2	1.10	0.21	-1.20	-0.50	-0.14	6.21	-2.71	6.55	-613.47	19.79
578	3	1.10	0.79	-0.64	-1.53	0.03	-0.21	-0.68	-11.98	-614.75	3.96
578	4	0.30	0.29	-2.02	-1.01	-0.53	0.50	0.27	-10.27	-592.20	-23
579	1	0.23	0.21	-3.48	0.17	-0.12	1.36	-2.18	37.34	-583.95	-121.38
579	2	0.86	0.21	-2.17	0.09	-0.83	0.22	-0.53	-20.94	-561.74	-55.79
579	3	0.86	0.79	-2.50	-0.66	-1.07	0.50	-1.25	2.28	-602.65	-60.08
579	4	0.23	0.79	-3.62	-0.12	-0.91	1.05	-2.54	20.78	-595.99	-92.26
580	1	0.09	0.21	3.86	-0.76	0.18	-1.09	-0.21	19.38	-611.48	99.72
580	2	0.33	0.21	3.75	-0.99	0.18	-3.19	-0.45	22.61	-583.76	95.36
580	3	0.33	0.79	4.36	-0.82	-0.50	-3.58	5.61	29.40	-588.07	106.56
580	4	0.09	0.79	4.42	-0.57	-0.78	-1.50	-3.33	32.32	-606.93	102.76
581	1	0.09	0.21	0.32	2.97	0.36	-12.38	3.75	3.94	-570.39	-85.76
581	2	0.35	0.21	-2.68	2.23	0.41	-11.47	-0.37	15.86	-574.77	-93.42
581	3	0.35	0.79	-3.04	2.88	-0.47	-13.27	4.26	17.55	-578.88	-108.37
581	4	0.09	0.79	0.29	3.49	-0.50	-15.53	-3.15	3.65	-563.87	-113.24
582	1	0.09	0.21	-2.12	-3.70	0.31	-11.57	0.77	-11.87	-572.25	76.83
582	2	0.33	0.21	-4.64	-4.30	0.32	-10.55	-5.31	-28.78	-582.58	68.88
582	3	0.33	0.79	-5.45	-5.30	-0.42	-13.42	3.08	-36.72	-569.86	116.57
582	4	0.09	0.79	-2.35	-4.84	-0.40	-12.35	-5.86	-12.29	-560.89	116.06
583	1	0.09	0.21	3.51	3.54	-0.23	5.75	3.68	-60.71	-621.07	-59.60
583	2	0.32	0.21	5.01	3.86	-0.01	4.65	3.02	-39.06	-594.76	-64.24
583	3	0.32	0.79	5.99	5.08	-0.43	5.19	6.10	-57.02	-596.70	-115.06
583	4	0.09	0.79	4.31	4.77	-0.75	5.18	0.09	-82.23	-622.09	-112.65
584	1	0.13	0.21	-1.14	2.68	-1.18	7.88	2.68	-112.67	-652.92	-75.46
584	2	0.47	0.21	1.88	3.34	-0.58	9.14	4.45	-86.68	-635.97	-58.98
584	3	0.47	0.79	2.66	4.49	-0.76	9.37	3.22	-88.92	-646.17	-119.86
584	4	0.13	0.79	-0.34	3.92	-1.04	7.03	1.78	-147.97	-698.37	-131.72
585	1	0.18	0.21	-23.66	-5.99	2.73	4.46	-1.32	-276.35	-492.47	84.06
585	2	0.67	0.21	-22.27	-4.91	3.47	3.29	4.80	-226.07	-427.57	74.34
585	3	0.67	0.79	-19.49	-5.18	4.36	3.28	4.46	-206.97	-488.84	26.91
585	4	0.18	0.79	-21.91	-6.18	3.15	7.43	-1.96	-307.21	-495.46	-42.58
586	1	0.21	0.21	-30.79	-14.01	3.96	15.82	9.87	-419.57	-960.78	-13.44
586	2	0.78	0.21	-25.74	-11.31	6.89	8.63	-13.97	-343.66	-767.76	89.62
586	3	0.78	0.79	-24.45	-12.29	6.99	8.08	-8.24	-384.91	-755.26	-22.05
586	4	0.21	0.79	-29.99	-13.65	4.47	11.40	23.95	-463.10	-1014.29	38.48
587	1	0.21	0.34	2.86	6.51	-0.94	0.06	16.87	-358.99	-28.65	-123.17
587	2	0.79	0.34	3.17	6.39	-0.32	0.20	17.42	-340.86	-30.77	-156.54
587	3	0.79	1.28	7.46	24.48	-0.43	20.02	21.86	-433.48	-12.38	-131.13
587	4	0.21	1.28	7.52	24.53	-0.59	-18.04	26.37	-413.00	-4.09	-107.35
588	1	0.21	0.29	-2.52	-14.50	-0.24	-0.47	13.95	-577.35	-7.86	99.28
588	2	0.79	0.29	-2.41	-14.51	0.05	-1.10	14.30	-539.37	32.29	0.65
588	3	0.79	1.09	0.49	-3.24	0.07	-7.62	15.71	-542.92	29.25	-134.04
588	4	0.21	1.09	0.19	-2.90	-0.35	7.77	14.93	-583.29	-14.48	-237.61
589	1	0.21	0.32	-5.12	-25.51	0.21	0.00	5.09	-337.82	-6.53	-11.47
589	2	0.79	0.32	-5.13	-25.60	0.29	-1.08	4.98	-340.16	-15.92	-5.48
589	3	0.79	1.19	-3.96	-20.66	0.22	1.94	6.72	-335.03	-16.35	26.40
589	4	0.21	1.19	-3.93	-20.45	0.10	-0.85	7.01	-355.66	-12.71	-14.95
590	1	0.21	0.28	-5.04	-24.61	0.38	-0.23	-3.12	-345.26	8.37	1.35
590	2	0.79	0.28	-5.04	-24.68	0.40	-0.04	-3.22	-338.79	2.35	-0.87
590	3	0.79	1.06	-5.40	-26.62	0.38	-0.61	-1.69	-341.10	-2.19	-4.74
590	4	0.21	1.06	-5.38	-26.55	0.36	0.76	-1.81	-334.79	8.73	-4.96
591	1	0.30	0.21	-1.62	-1.42	-0.90	1.35	-2.46	2.07	-618.50	-15.88
591	2	1.10	0.21	-0.29	-1.84	-0.70	0.85	0.98	-6.34	-614.41	-3.47
591	3	1.10	0.79	-0.35	-2.10	-0.96	0.60	2.57	3.23	-619.32	-2.50
591	4	0.30	0.79	-1.35	-1.67	-1.33	0.53	-1.89	2.32	-638.77	-17.74
592	1	0.23	0.21	-1.34	-0.49	-1.68	0.57	-2.31	12.52	-624.37	-76.99
592	2	0.86	0.21	-2.45	-1.87	-1.86	0.10	3.12	11.11	-620.49	-51.17
592	3	0.86	0.79	-1.93	-1.41	-1.83	0.08	2.89	4.48	-649.49	-37.99
592	4	0.23	0.79	-2.35	-0.99	-2.38	0.23	-2.15	9.25	-659.33	-71.35
593	1	0.09	0.21	-4.16	-0.77	-1.80	-0.89	-2.98	26.81	-614.20	103.51

593	2	0.33	0.21	4.11	-0.49	-1.16	-1.94	11.77	22.99	-603.79	113.25
593	3	0.33	0.79	2.61	0.38	-1.83	-1.44	17.41	11.02	-652.21	117.12
593	4	0.09	0.79	2.68	0.63	-2.91	-1.57	-5.22	9.46	-656.89	94.38
594	1	0.09	0.21	-0.06	3.56	-1.47	-15.39	-13.41	-4.44	-574.46	-141.05
594	2	0.35	0.21	-3.00	2.73	-1.45	-14.40	11.08	15.76	-594.36	-127.10
594	3	0.35	0.79	-2.05	0.85	-2.74	-6.74	15.26	6.56	-647.21	-139.65
594	4	0.09	0.79	-0.73	1.25	-2.74	-7.06	-27.39	2.54	-632.66	-173.14
595	1	0.09	0.21	-2.28	-5.47	-1.19	-13.29	-9.36	-21.68	-571.42	150.07
595	2	0.33	0.21	-5.11	-6.11	-1.11	-16.25	9.49	-45.20	-576.77	156.61
595	3	0.33	0.79	-1.97	-3.25	-2.26	-11.06	30.19	-31.80	-604.55	131.56
595	4	0.09	0.79	-0.59	-2.77	-2.40	-8.80	-10.39	-21.18	-623.64	197.02
596	1	0.09	0.21	4.10	5.11	-1.11	5.73	-5.11	-92.11	-620.55	-166.24
596	2	0.32	0.21	5.62	5.52	-0.72	8.29	7.21	-64.15	-585.71	-160.36
596	3	0.32	0.79	2.37	3.35	-1.03	5.79	2.38	-76.84	603.17	-240.70
596	4	0.09	0.79	1.53	2.94	-1.31	2.31	-14.35	-106.81	-617.90	-233.91
597	1	0.13	0.21	-0.18	4.09	-1.02	6.61	-1.97	-163.03	-733.04	-180.70
597	2	0.47	0.21	2.32	4.77	-0.83	8.92	0.36	-123.16	-663.49	-169.43
597	3	0.47	0.79	0.39	2.47	-0.60	5.99	-5.26	-149.21	-665.59	-212.34
597	4	0.13	0.79	-0.66	1.90	-0.63	3.39	-7.24	-103.24	-745.21	-249.67
598	1	0.18	0.21	-20.18	-5.83	3.11	5.55	-0.40	-294.58	-475.53	-87.16
598	2	0.67	0.21	-16.90	-5.80	4.42	7.14	5.88	-187.52	-485.99	-23.59
598	3	0.67	0.79	-13.81	-6.17	2.66	7.00	4.52	-184.24	-586.88	-136.30
598	4	0.18	0.79	-18.70	-5.05	2.35	4.86	2.08	-245.37	-495.62	-190.15
599	1	0.21	0.21	-29.03	-11.43	5.00	9.98	19.66	-449.42	-916.23	-86.11
599	2	0.78	0.21	-23.37	-11.23	6.67	8.01	-5.99	-377.46	-747.99	-95.18
599	3	0.78	0.79	-22.15	-7.35	5.80	9.74	-3.35	-302.85	-731.82	-421.49
599	4	0.21	0.79	-28.27	-8.96	4.41	13.47	22.67	-409.60	-855.85	-48.10
600	1	0.21	0.34	2.92	6.26	0.24	-3.03	17.85	-406.99	-19.90	-144.45
600	2	0.79	0.34	2.03	6.10	0.82	-3.23	16.47	-370.27	19.81	-112.61
600	3	0.79	1.28	6.12	22.70	0.01	15.43	24.29	-362.33	6.56	-177.16
600	4	0.21	1.28	7.40	24.03	-0.20	-20.33	20.94	-394.81	6.00	-163.86
601	1	0.21	0.29	-2.53	-14.58	0.28	-0.47	14.00	-433.97	32.68	-42.18
601	2	0.79	0.29	-2.90	-14.79	0.51	-0.81	13.76	-402.17	23.54	-40.28
601	3	0.79	1.09	-0.42	-3.35	0.57	-6.58	13.97	-410.01	24.43	-92.74
601	4	0.21	1.09	0.25	-3.37	0.27	7.44	15.39	-437.67	21.73	-85.57
602	1	0.21	0.32	-5.18	-25.65	0.33	0.42	4.90	-337.14	-2.34	-1.47
602	2	0.79	0.32	-5.28	-25.69	0.39	-0.55	5.00	-339.14	-1.61	2.47
602	3	0.79	1.19	-4.20	-20.66	0.43	0.65	6.85	-373.45	11.78	-11.41
602	4	0.21	1.19	-4.04	-20.72	0.36	-1.90	6.81	-403.24	-10.89	17.70
603	1	0.21	0.28	-5.07	-24.71	0.42	-0.23	-3.24	-337.52	-2.43	-0.06
603	2	0.79	0.28	-5.14	-24.75	0.43	-0.02	-3.15	-335.04	-1.07	2.52
603	3	0.79	1.06	-5.51	-26.71	0.41	-0.91	-1.88	-343.15	-1.90	2.68
603	4	0.21	1.06	-5.44	-26.66	0.40	0.51	-1.69	-335.55	-5.48	1.19
604	1	0.30	0.21	-1.18	-1.65	-1.65	0.14	-1.96	-0.94	-652.04	-18.82
604	2	1.10	0.21	-0.33	-2.06	-1.31	0.30	3.40	2.02	-623.19	-0.25
604	3	1.10	0.79	-0.23	-1.72	-1.56	0.67	5.08	-2.93	-629.14	-0.33
604	4	0.30	0.79	-1.06	-1.34	-1.93	1.58	-2.39	-2.64	-670.62	-22.38
605	1	0.23	0.21	-1.29	-1.49	-2.59	-1.27	-1.94	-2.06	-686.02	-71.90
605	2	0.86	0.21	-1.44	-1.48	-1.69	0.54	3.83	-3.25	-666.70	-36.58
605	3	0.86	0.79	-1.18	-1.44	-1.58	-2.31	3.26	-10.12	-693.35	-40.47
605	4	0.23	0.79	0.16	-1.80	-2.23	-0.48	-1.53	-19.73	-720.81	-77.25
606	1	0.09	0.21	0.91	1.42	-3.21	0.54	-5.01	-5.56	-695.40	92.43
606	2	0.33	0.21	0.80	1.52	-2.00	-1.19	19.64	-4.08	-701.55	118.35
606	3	0.33	0.79	-1.27	2.56	-1.62	1.15	15.27	-24.12	-761.04	114.52
606	4	0.09	0.79	-0.90	2.44	-2.50	-1.13	-5.00	-21.35	-737.90	93.31
607	1	0.09	0.21	-1.05	-1.79	-2.97	0.74	-28.86	-3.56	-703.18	-174.82
607	2	0.35	0.21	-0.89	-1.61	-2.97	2.37	16.94	-3.47	-702.62	-139.38
607	3	0.35	0.79	0.56	-4.49	-2.34	9.87	13.94	-15.72	-769.14	-130.94
607	4	0.09	0.79	-1.87	-4.96	-2.27	11.83	-23.03	-6.17	-775.10	-138.1
608	1	0.09	0.21	1.63	1.77	-2.68	3.94	-11.13	11.58	-696.19	202.5
608	2	0.33	0.21	1.86	2.02	-2.55	4.79	35.07	9.45	-684.99	250.92
608	3	0.33	0.79	6.49	6.66	-1.83	13.00	19.12	29.98	-765.57	191.27
608	4	0.09	0.79	3.65	6.13	-1.94	12.46	-11.03	12.99	-772.79	174.90
609	1	0.09	0.21	-2.33	-1.33	-1.40	0.16	-20.98	15.37	-812.12	-338.57
609	2	0.32	0.21	-2.21	-1.52	-1.17	-1.69	0.34	21.87	-663.12	-290.16
609	3	0.32	0.79	-7.23	-5.79	-0.89	-1.99	4.65	104.31	-739.27	-212.21
609	4	0.09	0.79	-6.41	-5.64	-1.18	-1.91	-10.59	120.35	-696.05	-206.92
610	1	0.13	0.21	-1.96	-1.39	-0.21	-0.89	-9.83	-198.01	-688.72	-214.15
610	2	0.47	0.21	-2.04	-1.18	-0.43	-0.40	-8.28	-210.93	-626.16	-281.22
610	3	0.47	0.79	-5.50	-5.33	-0.38	-5.47	-4.82	-127.14	-672.52	-165.74
610	4	0.13	0.79	-3.87	-4.84	0.10	-4.29	-7.84	-281.84	-634.61	-115.13
611	1	0.18	0.21	-18.50	-4.32	1.37	5.37	-3.01	-203.33	-524.26	-197.28
611	2	0.67	0.21	-13.71	-5.57	0.37	7.21	-0.26	-181.08	-605.96	-189.26
611	3	0.67	0.79	-16.40	-3.88	-1.73	6.34	-2.55	-179.36	-605.70	-183.81
611	4	0.18	0.79	-19.25	-3.24	0.12	3.22	-0.17	-138.70	-543.26	-187.53
612	1	0.21	0.21	-25.80	-2.67	3.44	2.87	29.79	-220.88	-603.73	-242.37
612	2	0.78	0.21	-21.07	-3.45	4.68	3.87	1.65	-190.32	-772.01	-244.54
612	3	0.78	0.79	-21.79	0.18	2.13	2.26	-1.79	-53.83	-797.54	-183.16
612	4	0.21	0.79	-23.54	2.50	2.12	-6.40	6.70	29.89	-544.92	-144.72
613	1	0.21	0.34	0.60	5.91	1.10	-0.33	14.21	-174.16	-20.45	-108.14
613	2	0.79	0.34	-0.47	6.24	0.51	-1.04	12.61	-347.05	24.65	-116.15
613	3	0.79	1.28	-0.38	19.30	0.23	10.05	8.66	-262.57	16.91	-144.55
613	4	0.21	1.28	4.32	21.41	0.39	-29.91	16.94	-280.22	18.83	-190.98
614	1	0.21	0.29	-3.17	-14.71	0.52	0.03	12.61	-377.40	22.22	-43.73
614	2	0.79	0.29	-3.53	-14.66	0.45	-0.92	13.86	-349.55	21.82	-54.07
614	3	0.79	1.09	-1.29	-3.59	0.34	-4.47	15.37	-344.72	22.20	-90.95
614	4	0.21	1.09	-1.16	-3.38	0.58	2.67	16.39	-374.40	28.93	-89.96
615	1	0.21	0.32	-5.38	-25.71	0.43	0.12	5.09	-343.39	-0.23	3.00
615	2	0.79	0.32	-5.52	-25.71	0.40	-0.55	4.99	-335.76	9.99	-1.22
615	3	0.79	1.19	-4.70	-20.75	0.44	-0.25	5.77	-340.11	14.53	-26.18
615	4	0.21	1.19	-4.29	-20.66	0.43	-1.02	6.60	-361.81	16.53	-21.12
616	1	0.21	0.28	-5.19	-24.76	0.43	-0.21	-2.28	-332.69	2.87	3.19
616	2	0.79	0.28	-5.27	-24.79	0.41	-0.09	-3.23	-337.94	10.43	4.74
616	3	0.79	1.06	-5.68	-26.77	0.40	-0.62	-1.84	-333.82	7.10	1.05
616	4	0.21	1.06	-5.61	-26.74	0.41	0.33	-1.87	-333.59	4.28	-0.38
617	1	0.30	0.21	-1.58	-1.08	-2.09	-0.40	-5.03	-4.84	-689.79	-25.39
617	2	1.10	0.21	-0.75	-1.37	-2.48	-0.91	6.41	-1.68	-633.61	-1.67
617	3	1.10	0.79	-1.52	-0.33	-1.80	10.23	8.72	-0.58	-641.33	-8.69
617	4	0.30	0.79	-2.44	-0.43	-2.28	-4.98	-6.59	-14.40	-714.98	-19.61
618	1	0.23	0.21	0.77	-1.76	-1.61	-1.52	-2.29	-24.36	-740.25	-81.11
618	2	0.86	0.21	-0.88	-0.97	-1.11	-0.88	5.99	-13.31	-710.40	-50.08
618	3	0.86	0.79	-0.89	-0.24	-0.65	1.25	6.79	-9.26	-740.99	-68.39
618	4	0.23	0.79	0.54	-1.10	-0.54	-1.86	-2.57	-14.93	-776.66	-80.41
619	1	0.09	0.21	-1.85	2.59	-1.38	-0.17	-5.51	-25.52	-770.48	96.89
619	2	0.33	0.21	-2.36	2.85	-0.91	1.56	7.80	-28.62	-792.92	111.50
619	3	0.33	0.79	-2.62	2.18	0.09	-0.40	-2.85	-25.69	-792.17	115.05
619	4	0.09	0.79	-1.93	1.89	0.53	-1.08	-3.57	-28.41	-800.89	124.43
620	1	0.09	0.21	-2.11	-6.41	-1.35	17.30	-10.67	-9.48	-815.46	-130.56
620	2	0.35	0.21	1.20	-5.59	-1.28	14.89	9.35	-22.13	-802.94	-120.38
620	3	0.35	0.79	1.65	-4.41	0.39	15.50	2.97	-24.71	-792.16	-103.14
620	4	0.09	0.79	-1.68	-5.34	0.27	16.14	6.54	-10.71	-804.01	-85.58
621	1	0.09	0.21	4.71	7.78	-1.24	15.69	-7.07	11.92	-804.62	140.65
621	2	0.33	0.21	8.57	8.43	-1.22	18.82	16.17	45.43	-758.65	157.44
621	3	0.33	0.79	8.55	8.32	0.06	23.51	-7.07	52.02	-810.37	63.62
621	4	0.09	0.79	4.45	7.31	0.12	19.47	-4.03	22.36	-808.08	80.37
622	1	0.09	0.21	-8.47	-6.94	-0.90	-3.32	-6.21	51.34	-723.41	-154.26

622	2	0.32	0.21	-9.55	-7.28	-0.67	-5.91	3.37	12.95	-750.32	-150.88
622	3	0.32	0.79	-9.90	-7.59	-0.30	-5.12	4.62	122.34	-768.42	-67.77
622	4	0.09	0.79	-9.18	-7.16	-0.61	-0.31	0.70	186.82	-653.10	-128.28
623	1	0.13	0.21	-5.40	-6.14	0.03	-3.20	-3.71	-231.09	-731.22	63.40
623	2	0.47	0.21	-7.30	-6.60	-0.47	-7.50	-2.16	-73.87	-750.87	-76.22
623	3	0.47	0.79	-8.06	-6.74	-0.72	-7.05	2.46	-322.40	-725.97	11.62
623	4	0.13	0.79	-6.78	-5.94	-0.47	-3.61	0.56	-280.61	-663.93	86.70
624	1	0.18	0.21	-20.60	-2.97	-0.27	3.13	-2.16	-90.76	-546.35	-123.82
624	2	0.67	0.21	-18.80	-2.78	-2.14	1.78	-3.05	-150.65	-588.22	-142.93
624	3	0.67	0.79	-21.83	-2.76	-1.83	1.45	-4.99	-125.81	-548.50	-80.23
624	4	0.18	0.79	-22.42	-3.24	-0.38	2.07	-3.71	-74.26	-533.67	-57.33
625	1	0.21	0.21	-24.13	1.09	0.60	-1.06	-0.18	12.59	-549.42	-120.76
625	2	0.78	0.21	-22.94	-1.05	0.71	4.50	-3.12	-70.96	-767.03	-109.49
625	3	0.78	0.79	-23.34	0.42	0.32	2.60	-1.88	-31.98	-766.76	-60.05
625	4	0.21	0.79	-24.54	0.00	0.13	2.07	-0.68	-0.56	-579.41	-81.43
626	1	0.21	0.34	-0.53	6.27	-0.13	-0.34	17.92	-326.14	-38.51	-120.34
626	2	0.79	0.34	-0.50	5.78	-0.24	-1.39	14.68	-313.18	38.09	-122.78
626	3	0.79	1.28	2.07	19.81	-0.19	2.53	14.45	-272.33	14.83	-106.43
626	4	0.21	1.28	2.47	19.58	-0.28	-2.86	14.09	-263.59	16.10	-126.72
627	1	0.21	0.29	-3.86	-14.80	0.31	-0.59	12.61	-327.01	19.66	-59.57
627	2	0.79	0.29	-3.96	-14.95	0.05	-0.67	12.52	-297.25	15.68	-69.44
627	3	0.79	1.09	-2.09	-3.88	-0.03	0.74	14.76	-312.74	17.09	-98.87
627	4	0.21	1.09	-2.34	-3.94	0.26	0.90	11.54	-324.15	27.52	-90.68
628	1	0.21	0.32	-5.60	-25.71	0.35	0.12	4.91	-325.78	12.47	-3.75
628	2	0.79	0.32	-5.66	-25.80	0.28	-0.42	4.86	-316.35	7.53	-3.17
628	3	0.79	1.19	-4.90	-20.78	0.18	-0.16	6.21	-297.97	11.50	-27.57
628	4	0.21	1.19	-4.74	-20.73	0.35	-0.15	6.68	-324.77	12.68	-29.77
629	1	0.21	0.28	-5.31	-24.81	0.40	-0.17	-3.32	-338.66	15.63	2.10
629	2	0.79	0.28	-5.35	-24.86	0.39	0.00	-3.26	-342.64	21.39	-2.08
629	3	0.79	1.06	-5.79	-26.84	0.35	-0.68	-1.91	-329.90	26.99	12.80
629	4	0.21	1.06	-5.77	-26.81	0.38	0.33	-1.97	-334.49	12.98	4.08
630	1	0.30	0.25	-2.80	0.47	-1.66	0.76	-2.14	-39.73	-674.03	-15.31
630	2	1.10	0.37	-3.11	1.81	-2.37	-0.97	7.63	-36.19	-673.32	-35.57
630	3	1.10	0.95	-8.03	2.52	-1.82	-8.62	-15.37	-54.10	-617.97	-7.58
630	4	0.30	0.83	-2.47	1.16	-0.45	2.48	-4.01	-32.12	-698.64	-28.96
631	1	0.23	0.21	-0.22	-0.34	0.05	-3.13	-2.97	8.44	-836.84	-118.73
631	2	0.86	0.21	-1.70	-0.56	-0.38	-1.84	-0.84	7.69	-818.49	-31.56
631	3	0.86	0.79	-2.89	0.16	-0.48	-0.18	7.06	-16.55	-862.20	43.56
631	4	0.23	0.79	-1.75	0.07	0.48	-2.88	-3.97	-13.46	-876.33	-189.96
632	1	0.09	0.21	-1.13	0.61	1.40	-2.00	-5.58	-34.74	-726.54	135.79
632	2	0.33	0.21	-1.83	0.46	0.70	-1.00	-8.39	-38.76	-751.52	109.23
632	3	0.33	0.79	0.45	-0.20	1.01	-2.69	-7.33	-24.28	-695.03	88.01
632	4	0.09	0.79	0.72	-0.11	1.68	-0.34	3.02	-33.90	-736.70	110.65
633	1	0.09	0.21	-1.28	-2.26	1.41	11.38	18.10	-13.43	-761.68	-59.55
633	2	0.35	0.21	1.15	-1.90	1.42	10.82	-3.19	-25.14	-761.55	-90.29
633	3	0.35	0.79	-0.60	0.87	1.86	3.06	-11.59	-10.13	-682.14	-68.20
633	4	0.09	0.79	-0.91	0.58	1.84	1.03	16.56	-13.20	-686.79	-43.54
634	1	0.09	0.21	2.99	3.66	1.36	13.41	0.06	3.16	-756.38	27.69
634	2	0.33	0.21	6.12	4.29	1.28	14.10	-22.13	26.69	-744.22	-2.44
634	3	0.33	0.79	1.74	-1.13	1.54	-1.01	-21.10	-24.98	-671.83	-5.58
634	4	0.09	0.79	1.34	-1.07	1.63	1.25	7.34	-17.78	-684.03	21.32
635	1	0.09	0.21	-7.12	-4.36	-0.21	1.49	17.15	66.06	-755.57	104.12
635	2	0.32	0.21	-7.16	-4.28	0.21	1.28	8.97	40.06	-740.04	33.44
635	3	0.32	0.79	-2.31	0.42	0.48	7.04	1.37	-68.65	-673.21	16.38
635	4	0.09	0.79	-3.54	-0.03	0.36	4.91	8.74	-84.19	-687.24	3.33
636	1	0.13	0.21	-6.79	-4.21	-0.90	0.37	4.76	-158.83	-623.73	129.86
636	2	0.47	0.21	-7.08	-4.37	-0.82	-1.30	7.90	-246.39	-775.42	217.14
636	3	0.47	0.79	-4.47	-0.76	-0.40	5.92	6.05	-28.58	-661.75	18.51
636	4	0.13	0.79	-6.06	-1.60	-0.86	5.67	5.85	-78.16	-624.58	70.4
637	1	0.18	0.21	-23.54	-3.53	-0.31	2.40	-1.68	-70.92	-524.76	-17.92
637	2	0.67	0.21	-23.34	-2.89	-1.20	1.12	-1.27	-118.43	-526.00	-35.80
637	3	0.67	0.79	-24.10	-3.19	-0.31	1.65	-2.63	-122.72	-497.01	28.58
637	4	0.18	0.79	-24.48	-3.99	0.08	1.61	-2.28	-80.77	-518.94	31.64
638	1	0.21	0.21	-24.77	-0.55	0.62	1.31	-0.15	3.37	-625.71	-56.95
638	2	0.78	0.21	-24.02	-0.51	0.41	0.71	-5.02	-26.81	-774.96	-19.40
638	3	0.78	0.79	-25.34	-2.29	0.68	2.40	-4.56	-66.97	-799.35	37.06
638	4	0.21	0.79	-25.23	-2.70	0.51	0.41	-3.45	20.16	-682.22	-30.04
639	1	0.21	0.34	-0.30	5.73	-0.42	1.35	14.40	-322.88	32.37	-117.61
639	2	0.79	0.34	0.14	6.02	-0.48	0.94	18.63	-339.90	17.73	-103.21
639	3	0.79	1.28	3.51	20.44	-0.16	6.28	15.00	-308.30	12.38	-81.89
639	4	0.21	1.28	2.14	20.01	-0.20	-0.41	14.81	-277.39	17.27	-94.58
640	1	0.21	0.29	-3.89	-15.03	-0.06	0.47	12.74	-273.29	0.64	-74.66
640	2	0.79	0.29	-3.65	-15.10	-0.25	0.01	12.59	-223.82	-24.18	-61.91
640	3	0.79	1.09	-1.89	-4.24	-0.42	-1.34	12.20	-275.93	48.70	-151.24
640	4	0.21	1.09	-1.94	-3.95	-0.25	0.04	15.10	-290.13	21.63	-117.94
641	1	0.21	0.32	-5.65	-25.87	0.22	0.11	4.89	-301.23	17.64	12.53
641	2	0.79	0.32	-5.60	-25.96	0.18	-0.52	4.87	-296.36	51.59	46.49
641	3	0.79	1.19	-4.64	-21.03	-0.04	0.37	6.85	-226.39	-21.17	-37.36
641	4	0.21	1.19	-4.85	-20.86	0.07	0.02	6.11	-273.69	0.19	-25.61
642	1	0.21	0.28	-5.36	-24.90	0.38	-0.18	-3.25	-343.78	27.24	2.11
642	2	0.79	0.28	-5.35	-24.96	0.37	-0.02	-3.35	-339.93	31.52	8.98
642	3	0.79	1.06	-5.80	-26.99	0.28	-0.53	-2.01	-356.47	19.19	-11.15
642	4	0.21	1.06	-5.79	-26.89	0.31	0.50	-1.94	-339.40	29.69	8.80
643	1	0.36	0.08	-2.39	-0.22	-0.55	-18.90	0.49	-117.71	58.55	-43.11
643	2	1.35	0.08	-17.86	1.14	2.98	-17.58	12.30	-108.48	-76.62	46.10
643	3	1.35	0.32	-18.34	0.54	-3.60	-13.20	-15.26	-139.88	-82.28	-48.29
643	4	0.36	0.32	-2.18	-0.15	-0.04	-14.21	3.02	-180.37	58.79	40.95
644	1	0.32	0.08	15.61	0.23	-0.48	-13.49	1.12	-173.25	31.31	-31.32
644	2	1.19	0.08	6.85	-0.73	-1.03	-13.02	-6.21	-124.65	-51.89	40.17
644	3	1.19	0.32	6.73	-0.63	0.36	-6.23	2.47	-174.65	-49.51	-42.47
644	4	0.32	0.32	15.61	0.24	-0.32	-7.80	2.90	-165.91	31.35	29.01
645	1	0.28	0.08	-20.24	0.05	-0.05	-8.16	0.20	-139.30	-20.85	-22.12
645	2	1.06	0.08	-24.14	-0.06	-0.47	-8.58	-1.61	-146.79	6.86	26.39
645	3	1.06	0.32	-23.98	-0.04	-0.37	-2.08	-5.22	-152.97	6.76	-24.16
645	4	0.28	0.32	-20.30	0.09	-0.67	-0.66	3.87	-160.50	-22.92	29.34
646	1	0.17	0.12	28.85	-1.13	-0.19	-5.61	1.38	-333.15	-99.61	-37.35
646	2	0.62	0.12	24.31	-0.02	-0.16	-7.46	0.13	-306.44	-229.43	-3.50
646	3	0.53	0.45	25.58	0.06	1.15	-7.12	0.60	-291.63	-193.68	-68.69
646	4	0.14	0.44	29.45	-0.74	0.78	-5.43	4.07	-335.29	-109.47	-20.84
647	1	0.12	0.12	20.41	0.71	-0.27	-8.12	1.22	-332.74	-253.42	53.31
647	2	0.58	0.13	15.47	1.61	-0.47	-7.46	0.66	-279.57	-304.19	-0.71
647	3	0.37	0.50	17.53	1.73	1.25	-5.33	-1.23	-328.76	-220.93	-43.62
647	4	-0.02	0.47	21.94	0.75	1.27	-7.43	1.89	-420.37	-145.71	42.45
648	1	0.08	0.14	12.53	1.81	-0.68	-6.80	2.69	-228.88	-400.16	-34.68
648	2	0.53	0.16	9.29	1.95	-0.72	-5.46	2.32	-153.69	-531.00	-69.45
648	3	0.39	0.59	11.33	3.28	0.40	-1.41	2.21	-251.08	-404.30	-104.75
648	4	0.18	0.53	14.40	2.33	0.88	-4.58	0.47	-296.43	-289.95	-69.48
649	1	0.13	0.12	30.01	0.15	0.37	-6.17	7.33	-368.23	-93.58	-21.50
649	2	0.47	0.12	26.44	0.57	0.68	-10.12	3.79	-323.62	-46.04	-124.93
649	3	0.39	0.45	29.12	0.96	2.63	-4.13	2.67	-458.93	-23.79	-62.85
649	4	0.12	0.44	32.94	0.64	0.64	-12.21	5.77	-419.77	-38.43	-28.83
650	1	0.10	0.13	23.36	0.84	-0.84	-12.44	3.71	-402.63	-1.89	16.06
650	2	0.33	0.14	19.10	1.21	-0.42	-12.57	0.19	-350.86	-163.10	-33.67
650	3	0.27	0.53	21.55	1.17	2.97	3.79	1.78	-386.09	-57.53	-74.85
650	4	0.00	0.48	26.26	0.76	1.71	0.07	3.95	-445.92	-31.62	-58.25
651	1	0.06	0.16	16.13	1.77	-1.26	-13.06	0.70	-353.47	-178.77	-48.21

651	2	-0.39	0.18	12.72	2.39	-0.77	-11.00	-3.03	-328.87	-243.85	-118.60	665	4	-0.01	0.27	-4.19	-16.72	-7.38	-6.03	5.32	-495.06	-110.43	-46.42
651	3	0.14	0.67	14.85	1.76	2.88	4.34	1.84	-303.40	-104.76	-122.27	666	1	0.10	0.10	-3.49	-23.53	-2.67	-2.70	-0.49	-465.76	-150.27	-110.05
651	4	-0.12	0.59	18.85	1.01	2.08	4.25	2.47	-353.29	-43.61	-86.15	666	2	0.64	0.12	-3.14	-25.03	-1.14	0.45	1.33	-484.77	171.61	-62.66
652	1	0.16	0.12	-31.93	1.69	-0.34	-2.44	-0.83	-347.95	-92.97	-9.33	666	3	0.24	0.46	-1.95	-23.68	-2.20	1.86	2.50	-376.95	-181.03	-91.36
652	2	0.61	0.12	-31.80	1.88	-0.56	0.13	-0.62	-303.32	-164.89	11.53	666	4	-0.21	0.37	-2.72	-23.42	-4.25	1.60	1.61	-393.23	-141.02	-115.67
652	3	0.52	0.45	-32.62	1.87	-0.64	-0.61	-3.15	-352.24	-142.94	-28.29	667	1	0.16	0.06	-8.84	-4.06	-2.68	1.10	9.38	-776.22	-94.14	78.53
652	4	0.14	0.44	-31.49	1.36	0.23	-4.09	-3.03	-369.95	-109.02	-6.70	667	2	0.58	0.07	-7.83	-7.64	-7.66	-2.62	11.72	-630.85	-65.28	-16.93
653	1	0.12	0.12	-30.94	1.43	-0.71	2.01	-0.05	-341.71	-294.04	-84.83	667	3	0.49	0.25	-9.76	-3.24	-5.14	30.74	10.97	-679.51	-31.14	-98.39
653	2	0.57	0.13	-28.63	0.02	-0.67	2.17	-1.05	-254.34	-284.23	-27.48	667	4	0.14	0.23	-9.38	-0.61	-0.78	10.32	9.81	-901.39	-33.65	30.97
653	3	0.36	0.50	-30.26	1.15	-2.27	-0.59	2.43	-269.37	-269.24	-94.99	668	1	0.12	0.08	-7.98	-10.22	-10.81	-4.32	6.86	-528.34	-29.87	-11.43
653	4	-0.01	0.47	-31.91	1.84	-1.55	-0.99	-2.01	-313.42	-193.49	-62.46	668	2	0.53	0.10	-5.56	-17.45	-12.49	-14.69	8.35	-424.88	-82.06	-67.71
654	1	0.08	0.14	-26.39	-0.75	-0.56	3.08	-0.36	-216.04	-355.11	-7.03	668	3	0.33	0.37	-8.97	-8.62	-10.26	40.96	16.23	-412.11	-67.36	-123.05
654	2	0.52	0.16	-24.96	-1.84	-0.55	1.41	3.10	-161.87	-436.92	18.55	668	4	-0.01	0.30	-10.79	-3.27	-7.02	39.28	11.81	-580.57	-38.51	-76.07
654	3	0.19	0.58	-26.10	-2.05	-2.99	-6.12	-3.20	-175.80	-416.24	-60.87	669	1	0.07	0.13	-5.61	-18.89	-13.09	-17.35	9.18	-406.11	-81.85	-56.24
654	4	-0.18	0.53	-28.02	0.16	-2.99	-4.63	0.21	-235.78	-348.06	-88.32	669	2	0.46	0.16	-4.44	-23.65	-11.76	-13.28	-6.35	-364.62	-123.80	-63.66
655	1	0.13	0.12	-31.80	0.11	2.48	-1.89	-6.92	-369.39	-86.74	17.06	669	3	0.16	0.59	-7.11	-17.70	-13.42	28.67	20.94	-263.75	-84.93	-110.90
655	2	0.46	0.12	-33.09	1.13	1.95	4.22	-7.18	-363.30	-101.66	-37.20	669	4	-0.16	0.47	-9.90	-11.51	-11.97	39.65	16.59	-358.13	-48.57	-103.40
655	3	0.39	0.45	-35.60	-0.20	-0.76	-27.16	-8.93	-377.24	-33.46	-45.55	670	1	0.29	0.16	-25.03	-2.04	0.23	-1.14	1.56	-183.50	-426.25	43.78
655	4	0.12	0.44	-34.56	-0.60	1.61	-19.43	-5.47	-402.06	-12.86	11.13	670	2	0.74	0.14	-26.76	-0.82	0.13	-2.55	-1.27	-236.67	-339.28	15.39
656	1	0.10	0.13	-32.81	1.37	3.95	9.89	-5.77	-349.64	-121.35	-50.67	670	3	1.00	0.53	-27.96	0.00	2.59	5.82	-0.43	-254.28	-256.49	47.50
656	2	0.43	0.14	-31.66	2.38	3.00	14.20	-3.63	-336.94	-204.84	-123.04	670	4	0.63	0.58	-26.22	-2.46	2.76	7.16	-4.02	-207.68	-236.91	71.87
656	3	0.27	0.53	-33.87	0.46	-2.04	-34.84	-11.55	-352.81	-90.10	-120.29	671	1	0.25	0.13	-28.35	0.01	0.15	-1.22	-1.69	-284.47	-287.93	-12.43
656	4	0.00	0.48	-35.32	0.10	0.19	-32.44	-10.20	-371.28	-45.25	-59.32	671	2	0.69	0.12	-30.40	1.46	0.02	-1.57	-0.37	-209.61	-132.68	-35.86
657	1	0.06	0.16	-29.96	2.06	4.34	20.17	-0.16	-311.49	-234.17	-136.26	671	3	0.83	0.47	-31.44	1.93	0.82	1.99	-2.20	-248.41	-142.39	13.96
657	2	0.39	0.18	-27.51	2.29	2.97	18.34	8.97	-264.68	-344.02	-163.17	671	4	0.45	0.50	-30.06	1.13	2.24	1.50	1.88	-301.07	-207.33	6.29
657	3	0.14	0.66	-29.55	1.69	-2.68	-29.37	-16.05	-373.21	-198.31	-218.10	672	1	0.20	0.12	-31.05	1.89	-0.26	0.40	-0.31	-332.94	-116.30	20.64
657	4	-0.11	0.59	-32.50	1.42	-0.74	-35.31	-12.63	-378.10	-111.65	-151.07	672	2	0.65	0.12	-30.05	1.69	-0.64	2.79	-0.88	-361.90	-106.94	-44.70
658	1	0.36	0.12	-2.67	-24.85	1.36	1.06	0.35	-475.73	-130.15	-10.08	672	3	0.68	0.44	-30.52	1.44	-1.22	4.90	-2.82	-347.29	-87.08	-21.43
658	2	0.90	0.10	-2.35	-23.09	2.51	3.82	-1.84	-520.41	-107.05	43.32	672	4	0.29	0.45	-31.95	1.96	-0.23	1.52	-3.36	-326.11	-87.06	9.75
658	3	1.21	0.37	-1.67	-22.92	3.90	-0.43	0.47	-534.49	-127.11	106.01	673	1	0.22	0.18	-27.70	1.99	-3.13	-17.38	8.55	-247.50	-231.75	104.06
658	4	0.76	0.46	-1.30	-23.43	2.29	-1.03	1.65	-472.56	-154.32	73.30	673	2	0.54	0.16	-29.89	1.94	-4.76	-19.76	-0.36	-275.85	-159.39	58.48
659	1	0.30	0.09	-2.05	-21.35	3.45	3.05	3.41	-567.42	-106.23	73.49	673	3	0.72	0.59	-32.49	1.51	0.42	38.49	-13.34	-255.52	-54.37	59.82
659	2	0.85	0.07	-2.43	-17.84	4.22	5.11	1.84	-628.55	-127.20	116.25	673	4	0.46	0.66	-29.95	1.64	2.67	32.37	-17.22	-226.06	-105.10	105.35
659	3	1.01	0.27	-2.83	-16.00	6.66	5.84	4.75	-689.36	-152.59	-162.61	674	1	0.19	0.14	-31.42	2.41	-3.62	-13.68	-3.82	-292.33	-27.58	27.30
659	4	0.54	0.32	-1.09	-20.57	4.63	4.01	-1.30	-600.59	-132.10	132.89	674	2	0.52	0.13	-32.27	1.41	-4.79	-9.58	-5.66	-294.67	-60.57	42.03
660	1	0.25	0.07	-3.92	-14.07	3.85	4.52	6.17	-696.82	-153.47	145.98	674	3	0.62	0.48	-34.66	0.24	-0.79	36.58	-10.48	-301.43	-9.93	37.57
660	2	0.80	0.06	-5.54	-10.16	0.94	-2.69	8.81	-700.81	-148.22	145.51	674	4	0.35	0.53	-33.63	0.61	1.57	38.28	-12.18	-267.79	-31.63	70.67
660	3	0.83	0.22	-6.83	-7.06	1.33	-1.58	9.18	-782.77	-130.54	140.19	675	1	0.16	0.12	-32.39	1.28	-2.97	-4.11	-7.09	-318.05	-57.24	12.45
660	4	0.35	0.24	-4.67	-10.68	5.15	3.74	8.02	-753.49	-157.96	171.19	675	2	0.50	0.12	-30.80	0.14	-3.58	1.97	-6.84	-326.74	-60.96	-15.22
661	1	0.27	0.16	-3.88	-23.24	11.67	14.54	-7.16	-503.21	-119.33	43.55	675	3	0.51	0.44	-33.47	-0.55	-2.27	24.42	-5.34	-329.16	-20.47	-9.61
661	2	0.66	0.13	-4.53	-18.49	12.60	18.05	-0.54	-607.54	-102.63	47.26	675	4	0.23	0.45	-34.80	-0.04	0.08	31.73	-9.35	-304.95	-35.54	38.16
661	3	0.89	0.47	-8.69	-11.11	11.31	-36.86	15.58	-704.53	-103.07	202.65	676	1	0.17	0.12	-27.67	1.11	-0.88	6.07	-1.21	-361.48	-115.79	-35.96
661	4	0.57	0.59	-6.60	-17.31	13.08	-26.61	19.33	-518.67	-141.45	203.51	676	2	0.62	0.12	-23.00	0.10	-1.09	7.44	0.42	-331.22	-202.49	-64.79
662	1	0.24	0.10	-4.20	-16.95	11.58	15.03	7.79	-675.07	-115.29	111.06	676	3	0.53	0.45	-24.32	0.20	-2.17	8.10	-0.20	-339.65	-165.31	-78.33
662	2	0.65	0.08	-6.38	-9.80	9.43	4.24	6.83	-798.38	-120.38	114.46	676	4	0.14	0.44	-28.35	0.82	-1.81	6.31	-4.15	-351.47	-90.09	-38.56
662	3	0.78	0.30	-8.97	-2.93	6.04	-34.40	11.13	-1000.94	-83.01	186.16	677	1	0.12	0.12	-19.09	-0.51	-1.16	8.73	0.08	-311.55	-275.76	-95.53
662	4	0.44	0.37	-7.48	-8.16	9.35	-37.38	15.39	-797.34	-128.23	257.77	677	2	0.58	0.13	-14.16	-1.16	-1.20	7.36	1.90	-272.38	-357.08	-60.75
663	1	0.20	0.07	-6.59	-7.14	6.04	2.04	12.22	-853.85	-131.00	161.78	677	3	0.37	0.50	-16.29	-0.47	-2.44	7.04	3.17	-268.07	-320.21	-128.89
663	2	0.62	0.06	-8.27	-4.05	0.93	-1.87	9.42	-872.48	-87.71	83.48	677	4	0.82	0.47	-20.72	-0.16	-2.35	9.10	-1.18	-312.40	-218.70	-114.32
663	3	0.64	0.23	-8.86	-0.61	-0.04	-2.96	4.26	-1011.25	-26.44	28.70	678	1	0.08	0.14	-11.12	-1.14	-1.17	8.00	1.50	-209.47	-435.65	-22.19
663	4	0.29	0.25	-8.29	-2.91	4.21	-24.59	10.49	-1027.69	-73.37	193.73	678	2	0.53	0.16	-7.76	-0.64	-1.02	6.91	4.98	-127.53	-545.05	-0.35
664	1	0.20	0.06	-6.04	-10.37	-2.84	0.98	9.00	-658.02	-124.80	97.95	678	3	0.19	0.59	-9.67	-0.59	-1.86	4.76	1.07	-168.06	-507.96	-81.24
664	2	0.75	0.07	-5.27	-14.60	-5.48	-4.89	6.32	-563.28	-114.11	21.96	678	4	0.18	0.53	-12.98	-0.44	-2.20	6.58	1.96	-234.58	-418.98	-113.35
664	3	0.65	0.24	-5.77	-11.25	-6.76	-4.14	7.39	-599.97	-86.28	-9.82	679	1	0.33	0.12	-28.96	0.03	-1.53	5.96	-7.33	-352.38	-72.77	-28.98
664	4	0.12	0.22	-7.28	-7.30	-3.15	0.02	9.72	-720.57	-98.48	67.11	679	2	0.47	0.12	-25.25	-0.35	-1.74	10.51	-3.97	-349.94	-102.35	-73.87
665	1	0.15	0.07	-4.04	-18.45	-5.44	-5.18	2.95	-475.74	-140.53	-20.68	679	3	0.39	0.45	-27.87	-0.91	-3.10	8.67	-2.40	-349.01	-36.99	-62.21
665	2	0.70	0.09	-3.55	-21.94	-4.03	-1.63	4.75	-384.94	-182.31	-80.09	679	4	0.12	0.44	-31.83	-0.58	-1.32	12.29	-5.82	-335.57	-17.68	-7.65
665	3	0.46	0.32	-2.35	-21.19	-5.40	-3.34	-0.14	-398.43	-148.60	-100.74	680	1	0.10	0.13	-22.21	-0.21	-0.05	12.73	-3.81	-363.83	-139.09	-99.38

680	2	0.43	0.14	-17.92	0.14	-0.16	14.91	-0.38	-236.66	-235.82	-157.95
680	3	0.27	0.53	-20.20	-0.68	-2.88	-1.06	-1.41	-377.32	-107.55	-144.88
680	4	0.00	0.48	-25.01	-0.71	-2.09	4.07	-4.06	-365.12	-44.97	-75.02
681	1	0.06	0.16	-15.17	0.43	0.95	16.05	0.19	-325.86	-288.53	-183.91
681	2	0.39	0.18	-11.44	1.18	0.69	14.83	5.32	-282.06	-115.72	-205.90
681	3	0.14	0.67	-13.17	0.47	-1.60	-2.28	-2.78	-421.04	-242.94	-263.18
681	4	-0.42	0.59	-17.33	0.01	-1.58	-1.99	-2.73	-416.56	-135.34	-179.68
682	1	0.36	0.13	-0.07	-6.38	1.00	3.40	-7.77	-579.25	-114.41	11.24
682	2	0.90	0.10	1.22	-4.79	0.91	4.23	-7.13	-629.09	-97.73	61.39
682	3	1.21	0.38	1.45	-6.20	1.24	2.78	-6.85	-639.52	-129.95	-26.21
682	4	0.77	0.47	0.46	-7.36	1.21	2.09	-5.96	-573.08	-147.61	95.91
683	1	0.30	0.09	2.30	-3.79	0.93	3.82	-6.26	-670.19	-107.61	99.16
683	2	0.85	0.08	3.42	-2.64	0.92	2.47	-6.49	-731.55	-147.66	144.71
683	3	1.01	0.28	3.35	-3.22	1.24	2.36	-3.01	-799.81	-176.87	195.87
683	4	0.54	0.33	2.76	-4.85	1.06	3.18	-7.20	-707.40	-142.60	157.54
684	1	0.25	0.07	3.50	-2.08	0.81	0.33	-2.25	-770.98	-158.62	181.19
684	2	0.80	0.06	1.53	-1.62	0.20	-5.39	-0.72	-807.99	-180.78	226.46
684	3	0.83	0.24	1.08	-1.37	0.37	-5.68	-0.86	-880.32	-153.49	199.73
684	4	0.35	0.25	3.06	-2.16	1.12	-0.44	-0.57	-859.07	-178.53	216.77
685	1	0.27	0.16	-0.79	-3.27	4.68	10.59	-9.49	-804.94	-113.57	42.36
685	2	0.66	0.13	0.61	-5.57	4.40	11.76	-5.48	-720.98	-107.94	50.90
685	3	0.89	0.48	-0.55	-3.59	3.48	-8.51	2.61	-845.67	-119.33	239.28
685	4	0.57	0.60	-2.07	-5.70	5.13	-3.83	1.64	-814.68	-157.46	236.09
686	1	0.24	0.10	1.95	-4.68	3.54	9.04	-2.28	-799.15	-133.91	129.89
686	2	0.65	0.08	2.42	-3.20	2.68	2.87	-1.17	-929.34	-130.75	135.44
686	3	0.78	0.31	1.87	-0.62	1.25	-12.95	3.35	-1184.46	-101.86	228.20
686	4	0.44	0.38	1.09	-2.39	2.21	-10.84	2.88	-956.67	-150.09	304.35
687	1	0.20	0.07	2.48	-1.57	1.59	-0.94	2.14	-988.21	-167.36	207.66
687	2	0.62	0.06	0.61	-0.76	0.44	-6.00	1.00	-971.19	-85.76	127.90
687	3	0.63	0.24	0.38	-0.07	0.10	-9.78	-0.06	-1134.25	-25.95	50.56
687	4	0.29	0.26	2.05	-0.72	0.77	-11.82	3.62	-1201.25	-90.12	226.34
688	1	0.20	0.06	-1.30	-2.16	-0.54	-6.51	1.08	-761.64	-120.11	154.20
688	2	0.75	0.07	-4.21	-3.95	-1.20	-5.92	1.65	-625.42	-167.83	113.91
688	3	0.65	0.25	-3.87	-2.79	-1.65	-6.03	0.10	-604.58	-198.02	91.35
688	4	0.17	0.24	-1.46	-1.50	-0.56	-6.65	3.02	-812.11	-56.95	130.41
689	1	0.15	0.08	-5.39	-5.79	-1.23	-5.23	2.97	-698.95	-323.66	-69.10
689	2	0.70	0.09	-5.27	-7.51	-0.46	0.02	0.29	-576.05	-196.23	-116.37
689	3	0.46	0.33	-4.99	-7.02	-1.52	-3.40	0.29	-535.38	-201.35	-145.06
689	4	-0.01	0.28	-4.93	-4.90	-2.01	-6.41	2.28	-699.72	-165.01	7.88
690	1	0.10	0.10	-4.30	-8.27	0.16	-1.32	-1.02	-566.63	-229.50	-130.03
690	2	0.64	0.13	-2.53	-8.75	0.53	2.86	-3.78	-582.46	-167.76	-105.72
690	3	0.23	0.47	-3.50	-9.58	-0.11	0.41	-3.38	-442.11	-237.15	-127.23
690	4	-0.21	0.38	-4.70	-8.56	-0.96	0.28	-1.50	-480.21	-228.15	-153.39
691	1	0.16	0.06	-1.71	-0.89	-0.39	-6.58	1.97	-851.37	-109.05	143.99
691	2	0.58	0.07	-4.12	-1.85	-1.66	-6.54	1.41	-593.03	-87.29	-40.99
691	3	0.49	0.26	-4.36	-0.89	-1.31	-1.89	0.24	-699.86	-19.29	-95.13
691	4	0.14	0.24	-1.60	-0.12	-0.05	-7.31	2.00	-939.18	-43.89	49.36
692	1	0.12	0.08	-5.56	-2.86	-2.54	-5.08	1.99	-641.86	-47.61	3.01
692	2	0.53	0.10	-5.81	-5.54	-3.25	-6.11	2.24	-526.16	-159.30	-89.99
692	3	0.32	0.38	-6.57	-2.75	-3.60	3.12	1.37	-401.22	-77.95	-104.09
692	4	-0.01	0.31	-5.94	-0.76	-1.97	-0.29	1.41	-578.80	-36.47	-60.66
693	1	0.07	0.13	-5.70	-6.99	-3.46	-6.32	-0.90	-498.19	-113.64	-84.68
693	2	0.46	0.16	-4.88	-9.96	-3.39	-4.10	-4.23	-424.84	-181.19	-109.12
693	3	0.16	0.60	-6.62	-7.44	-5.82	1.91	3.41	-279.39	-123.69	-140.92
693	4	-0.16	0.48	-7.23	-3.99	-4.28	3.77	2.63	-341.29	-69.06	-128.51
694	1	0.13	0.21	-4.93	0.01	-0.50	5.58	4.64	-121.57	-616.29	21.21
694	2	0.47	0.21	-2.66	0.57	0.06	7.84	3.54	-50.03	-648.57	18.08
694	3	0.47	0.79	-0.86	1.74	0.03	7.00	2.88	-47.41	-637.52	-36.08
694	4	0.13	0.79	-3.42	1.30	-0.47	2.81	3.94	-69.15	-640.19	-39.1
695	1	0.09	0.21	-1.46	0.92	0.68	5.07	5.06	-22.53	-653.73	13.01
695	2	0.32	0.21	0.07	1.38	0.55	7.90	-4.89	1.37	-651.42	-20.88
695	3	0.32	0.79	1.70	1.93	0.41	3.36	-1.70	-35.70	-619.99	-38.42
695	4	0.09	0.79	0.64	1.87	0.49	4.20	3.87	-48.13	-628.72	-39.13
696	1	0.09	0.21	0.41	-1.64	1.08	-1.31	9.90	-6.69	-644.39	42.89
696	2	0.33	0.21	-0.37	-1.81	1.09	-5.00	-6.17	-25.85	-653.32	31.36
696	3	0.33	0.79	-1.61	-1.85	0.74	-5.66	-9.06	-11.25	-611.41	54.35
696	4	0.09	0.79	-0.30	-1.71	0.72	-6.26	4.88	-3.68	-613.12	61.06
697	1	0.09	0.21	-0.94	1.02	1.34	-6.96	10.36	0.80	-648.19	-52.55
697	2	0.35	0.21	-1.90	0.47	1.44	-5.07	-11.28	4.37	-665.88	-72.91
697	3	0.35	0.79	-2.82	0.86	0.77	-9.11	-3.36	14.69	-606.53	-92.49
697	4	0.09	0.79	-1.03	1.10	0.73	-8.23	6.37	6.94	-611.41	-73.77
698	1	0.09	0.21	2.51	0.27	1.34	-1.24	1.43	26.65	-618.68	107.24
698	2	0.33	0.21	2.36	0.01	0.76	-1.50	-5.65	20.14	-657.62	84.25
698	3	0.33	0.79	3.68	0.02	0.47	-0.33	-4.98	27.52	-614.41	103.03
698	4	0.09	0.79	3.76	0.00	0.87	-0.40	1.07	21.09	-642.28	123.31
699	1	0.23	0.21	-2.73	-0.14	0.73	-0.65	-1.11	0.71	-492.75	-186.75
699	2	0.86	0.21	-3.33	0.08	0.24	1.15	-7.00	-9.11	-501.54	54.21
699	3	0.86	0.79	-3.18	-0.76	-0.10	-0.01	-0.39	-27.33	-521.64	-21.06
699	4	0.23	0.79	-3.58	-0.26	0.73	-0.43	3.00	-13.13	-525.59	-106.49
700	1	0.30	0.17	-2.75	0.73	-0.27	-0.27	-0.50	-7.57	-650.98	-13.84
700	2	1.10	0.05	-8.19	2.09	0.31	-6.07	14.52	-29.15	-641.52	-28.20
700	3	1.10	0.63	-3.08	1.37	1.30	0.44	-6.50	-6.24	-708.99	6.63
700	4	0.30	0.75	-3.61	-0.22	0.60	1.27	2.20	3.94	-676.67	-2.80
701	1	0.18	0.21	-24.81	-4.59	0.47	2.98	-2.46	-126.36	-516.25	96.12
701	2	0.67	0.21	-24.31	-3.64	0.37	2.01	0.89	-159.06	-476.11	64.14
701	3	0.67	0.79	-23.80	-4.19	1.58	2.52	0.45	-199.34	-489.11	43.29
701	4	0.18	0.79	-24.46	-5.40	1.02	4.65	-2.02	-201.59	-467.19	68.64
702	1	0.21	0.21	-25.68	-4.45	0.43	-1.23	-1.88	8.52	-764.81	7.97
702	2	0.78	0.21	-25.34	-4.52	0.97	1.68	-7.68	-65.70	-824.71	90.34
702	3	0.78	0.79	-25.05	-8.43	1.57	2.97	-7.45	-239.31	-780.02	117.21
702	4	0.21	0.79	-28.01	-9.14	0.98	6.89	-8.32	-263.21	-916.39	164.78
703	1	0.21	0.34	0.56	5.84	-0.94	-0.64	12.74	-284.45	-12.69	-113.63
703	2	0.79	0.34	1.63	5.08	-1.24	-0.37	15.36	-338.54	-2.35	-116.60
703	3	0.79	1.28	6.08	22.51	-0.90	30.61	20.98	-413.71	8.30	-61.30
703	4	0.21	1.28	1.21	20.46	-0.68	-8.31	12.20	-344.50	8.65	-77.31
704	1	0.21	0.29	-3.27	-15.12	-0.30	0.42	14.27	-155.65	-13.83	-106.82
704	2	0.79	0.29	-2.97	-15.34	-0.22	-0.69	13.25	-43.62	94.91	-298.57
704	3	0.79	1.09	-0.58	-4.00	-0.28	-4.00	16.38	-369.74	-2.99	-77.68
704	4	0.21	1.09	-0.70	-4.06	-0.34	6.20	15.44	-359.28	26.88	-133.27
705	1	0.21	0.32	-5.55	-26.07	0.15	0.26	4.93	-366.10	38.02	30.48
705	2	0.79	0.32	-5.48	-26.19	0.16	-0.74	4.96	-395.09	7.69	-26.36
705	3	0.79	1.19	-4.28	-21.31	0.08	1.18	6.62	-60.83	48.59	191.97
705	4	0.21	1.19	-4.60	-21.21	-0.05	-0.32	5.86	-167.88	-9.91	7.30
706	1	0.21	0.28	-5.34	-25.01	0.36	-0.12	-3.25	-357.22	29.08	10.04
706	2	0.79	0.28	-5.31	-25.07	0.34	-0.05	-3.37	-350.71	22.11	-6.69
706	3	0.79	1.06	-5.72	-27.14	0.31	-0.37	-1.92	-343.51	19.81	21.86
706	4	0.21	1.06	-5.72	-27.05	0.29	0.45	-1.90	-294.89	31.10	4.34
707	1	0.30	0.21	-3.31	-0.71	1.00	-2.08	2.34	1.29	-638.00	-1.03
707	2	1.10	0.21	-1.48	-1.04	0.66	8.36	-5.13	-8.65	-717.38	9.10
707	3	1.10	0.79	-0.85	-1.98	0.91	-0.24	-2.62	-3.24	-708.93	7.07
707	4	0.30	0.79	-2.57	-1.31	0.36	0.49	2.44	-4.26	-662.03	-7.44
708	1	0.21	0.21	-3.85	-0.07	0.39	0.97	0.59	-3.60	-585.46	-66.18
708	2	0.86	0.21	-2.96	-0.20	-0.18	0.64	-1.96	-14.45	-617.94	-44.88
708	3	0.86	0.79	-3.01	-0.71	-0.52	0.21	-2.69	2.33	-651.48	-32.53
708	4	0.23	0.79	-3.81	-0.09	-0.34	0.14	-1.23	10.78	-627.41	-65.60
709	1	0.09	0.21	4.16	-0.45	0.34	-1.43	-0.69	11.81	-568.20	113.74

709	2	0.33	0.21	4.05	-0.61	0.33	-2.38	-2.43	8.36	-588.36	107.70	723	4	0.09	0.79	-1.51	1.23	-2.26	-6.17	-23.99	2.58	-641.39	-156.05
709	3	0.33	0.79	4.31	-0.87	-0.23	-3.41	2.38	13.48	-589.01	98.27	724	1	0.09	0.21	-0.97	-5.23	-0.84	-11.23	-9.83	-20.00	-578.19	122.90
709	4	0.09	0.79	4.42	-0.63	-0.40	-0.98	-1.66	10.27	-603.90	82.77	724	2	0.33	0.21	-3.38	-5.83	-0.79	-14.59	-9.37	-41.77	-583.65	141.37
710	1	0.09	0.21	-0.89	2.10	0.43	-8.44	6.30	4.42	-533.33	-87.41	724	3	0.33	0.79	-0.23	-3.20	-1.86	-9.77	-5.13	-23.51	-607.59	213.12
710	2	0.35	0.21	-3.17	1.58	0.48	-9.15	-1.02	10.87	-591.25	-96.58	724	4	0.09	0.79	0.41	-2.90	-2.00	-7.49	-7.07	-20.16	-629.65	179.72
710	3	0.35	0.79	-3.31	2.72	-0.22	-9.98	3.86	13.01	-580.59	-105.72	725	1	0.09	0.21	2.41	4.81	-0.83	5.03	-7.30	-92.33	-624.87	-148.66
710	4	0.09	0.79	-0.72	3.23	-0.25	-12.55	-1.00	2.43	-574.67	-109.15	725	2	0.32	0.21	3.80	5.23	-0.51	7.92	5.80	-55.26	-591.50	-146.39
711	1	0.09	0.21	-0.60	-2.76	0.40	-10.46	-0.20	-11.49	-585.20	79.08	725	3	0.32	0.79	1.03	3.40	-0.79	5.59	-1.61	-74.64	-605.84	-221.53
711	2	0.33	0.21	-2.45	-3.21	0.35	-8.49	-5.51	-22.40	-597.93	71.20	725	4	0.09	0.79	0.25	2.98	-0.92	2.15	-12.55	-104.00	-618.20	-214.32
711	3	0.33	0.79	-3.40	-4.60	-0.22	-10.33	-0.50	-18.49	-579.96	136.18	726	1	0.13	0.21	-1.30	3.86	-0.80	5.51	-1.06	-150.17	-220.90	-163.23
711	4	0.09	0.79	-0.87	-4.31	-0.19	-9.33	-4.21	-7.79	-572.99	108.86	726	2	0.47	0.21	0.84	4.47	-0.61	8.06	0.51	-118.25	-665.72	-151.70
712	1	0.09	0.21	1.70	2.70	0.03	4.87	4.19	-37.68	-626.88	-58.56	726	3	0.47	0.79	-0.77	2.52	-0.30	5.42	-5.17	-145.39	-666.87	-192.34
712	2	0.32	0.21	2.78	2.92	0.09	3.44	1.66	-25.20	-607.42	-62.93	726	4	0.13	0.79	-1.53	1.88	-0.30	2.71	-6.38	-99.06	-745.42	-230.33
712	3	0.32	0.79	3.81	4.38	-0.29	4.03	5.53	-50.20	-594.53	-103.40	727	1	0.18	0.21	-19.88	-4.93	2.20	5.12	1.86	-240.66	-453.98	-134.38
712	4	0.09	0.79	2.38	4.16	-0.53	4.30	1.64	-72.25	-627.21	-102.09	727	2	0.67	0.21	-16.78	-4.93	3.77	6.87	5.79	-148.58	-510.71	-55.00
713	1	0.13	0.21	-2.42	2.27	-0.66	7.13	3.73	-83.84	-654.10	-72.61	727	3	0.67	0.79	-13.71	-5.19	2.00	6.88	4.17	-155.04	-597.22	-134.97
713	2	0.47	0.21	0.23	2.62	-0.24	7.17	3.58	-69.05	-641.56	-55.82	727	4	0.18	0.79	-18.29	-4.02	1.42	4.37	3.12	-175.51	-526.79	-182.58
713	3	0.47	0.79	1.00	3.98	-0.54	7.80	3.02	-72.50	-649.79	-108.75	728	1	0.21	0.21	-27.57	-8.56	3.38	9.74	20.66	-430.13	-811.65	-112.82
713	4	0.13	0.79	-1.62	3.55	-0.77	5.98	2.12	-126.82	-697.45	-118.55	728	2	0.78	0.21	-22.41	-7.97	4.43	6.69	1.32	-233.34	-729.64	-163.34
714	1	0.18	0.21	-23.51	-5.73	1.54	4.30	0.82	-253.54	-482.93	49.56	728	3	0.78	0.79	-21.47	-3.10	3.30	5.41	0.64	-199.34	-766.62	-221.05
714	2	0.67	0.21	-22.38	-4.51	2.64	3.04	4.91	-198.98	-425.36	47.32	728	4	0.21	0.79	-24.70	-2.83	2.46	2.34	19.98	-164.55	-635.32	-202.02
714	3	0.67	0.79	-19.41	-4.51	3.66	3.26	4.53	-176.19	-495.97	-4.78	729	1	0.21	0.34	2.12	4.87	0.87	-1.26	18.30	-338.22	-8.87	-81.81
714	4	0.18	0.79	-21.68	-5.64	2.16	7.07	0.39	-282.74	-500.19	-77.46	729	2	0.79	0.34	0.91	5.55	1.27	-0.39	16.72	-329.49	14.01	-101.96
715	1	0.21	0.21	-29.92	-13.89	1.61	17.33	1.30	-430.59	-967.70	-24.99	729	3	0.79	1.28	2.67	20.02	0.64	-8.79	14.67	-296.08	8.32	-143.05
715	2	0.78	0.21	-25.17	-10.85	2.71	8.23	-7.57	-337.52	-731.86	61.54	729	4	0.21	1.28	8.04	22.65	0.46	-14.26	22.68	-361.26	11.77	-148.98
715	3	0.78	0.79	-23.70	-10.76	4.23	7.85	-1.02	-339.15	-711.92	-81.20	730	1	0.21	0.29	-3.09	-15.62	0.48	-0.09	12.71	-458.04	49.91	-50.05
715	4	0.21	0.79	-29.39	-12.84	2.64	15.11	19.02	-477.33	-953.12	40.03	730	2	0.79	0.29	-3.45	-15.61	0.56	-0.64	13.71	-412.01	25.45	-84.32
716	1	0.21	0.34	2.58	4.92	-0.57	-0.01	12.02	-335.14	-14.64	-111.19	730	3	0.79	1.09	-1.02	-4.73	0.55	-2.77	13.37	-387.32	12.63	-101.35
716	2	0.79	0.34	2.71	4.78	0.09	-0.56	14.91	-379.20	-18.92	-95.31	730	4	0.21	1.09	-0.83	-4.53	0.36	1.60	15.30	-388.64	-24.41	-138.00
716	3	0.79	1.28	6.66	23.03	-0.14	13.93	24.81	-398.80	0.96	-124.71	731	1	0.21	0.32	-5.52	-26.32	0.36	0.43	4.97	-397.41	-22.66	50.08
716	4	0.21	1.28	7.83	23.31	-0.30	-17.04	28.15	-395.18	-4.89	-91.03	731	2	0.79	0.32	-5.62	-26.32	0.40	-0.45	4.78	-294.41	14.00	15.52
717	1	0.21	0.29	-2.81	-15.54	-0.09	-0.52	13.91	-632.17	-30.98	-295.35	731	3	0.79	1.19	-4.69	-21.49	0.43	-0.33	6.30	-414.06	34.14	-13.44
717	2	0.79	0.29	-2.81	-15.60	0.28	-0.81	14.33	-521.80	34.26	-97.24	731	4	0.21	1.19	-4.34	-21.48	0.40	-1.01	6.86	-460.95	48.89	-31.84
717	3	0.79	1.09	0.29	-4.20	0.26	-5.69	16.44	-323.55	-15.90	-126.93	732	1	0.21	0.28	-5.34	-25.17	0.37	-0.12	-3.44	-365.22	-1.61	9.32
717	4	0.21	1.09	-0.15	-4.09	-0.18	7.34	14.33	-302.73	6.34	-70.86	732	2	0.79	0.28	-5.39	-25.18	0.38	-0.01	-3.30	-362.64	4.15	1.70
718	1	0.21	0.32	-5.44	-26.25	0.23	0.20	4.91	-296.53	17.71	-25.52	732	3	0.79	1.06	-5.79	-27.26	0.36	-0.59	-2.01	-361.05	2.47	11.68
718	2	0.79	0.32	-5.47	-26.32	0.31	-0.73	4.77	-326.41	-11.16	33.49	732	4	0.21	1.06	-5.77	-27.25	0.36	0.30	-1.98	-342.29	10.49	-9.02
718	3	0.79	1.19	-4.40	-21.50	0.29	0.93	6.34	-515.50	33.49	13.19	733	1	0.30	0.21	-1.43	-1.95	-1.05	0.22	-0.86	-0.25	-707.23	-2.35
718	4	0.21	1.19	-4.27	-21.40	0.17	-0.70	6.84	-623.05	-27.99	192.54	733	2	1.10	0.21	-0.38	-2.44	-0.79	0.47	2.07	-0.27	-695.74	4.19
719	1	0.21	0.28	-5.31	-25.11	0.34	-0.13	-3.33	-353.22	6.13	-6.44	733	3	1.10	0.79	-0.29	-2.10	-1.09	0.74	7.84	-2.31	-692.99	6.99
719	2	0.79	0.28	-5.32	-25.15	0.36	-0.02	-3.32	-347.22	-0.03	10.49	733	4	0.30	0.79	-1.28	-1.69	-1.40	1.65	-1.42	-2.39	-721.06	-7.86
719	3	0.79	1.06	-5.69	-27.22	0.35	-0.55	-1.85	-403.36	-2.88	5.48	734	1	0.23	0.21	-1.73	-1.71	-2.05	-1.11	-1.04	-4.99	-715.11	-52.19
719	4	0.21	1.06	-5.70	-27.18	0.33	0.54	-1.98	-353.62	7.36	22.65	734	2	0.86	0.21	-1.79	-1.72	-1.19	0.60	2.51	-4.09	-709.59	-19.81
720	1	0.30	0.21	-1.98	-1.65	-0.12	1.62	-1.10	-2.95	-681.33	-4.78	734	3	0.86	0.79	-1.53	-1.73	-1.12	-2.03	2.04	-9.93	-733.90	-22.02
720	2	1.10	0.21	-0.40	-2.24	-0.02	1.07	-0.64	1.74	-704.20	4.75	734	4	0.23	0.79	-0.36	-2.08	-1.74	-0.33	-0.58	-19.38	-750.62	-57.99
720	3	1.10	0.79	-0.43	-2.47	-0.37	0.61	1.13	0.56	-699.68	3.80	735	1	0.09	0.21	1.42	1.61	-2.76	0.60	-3.18	-4.95	-716.16	76.52
720	4	0.30	0.79	-1.63	-1.92	-0.67	0.63	-0.69	-0.43	-696.24	-1.76	735	2	0.33	0.21	1.38	1.72	-1.68	-0.79	16.73	-5.74	-718.86	100.07
721	1	0.23	0.21	-3.58	-0.55	-1.12	0.15	-1.38	12.30	-649.20	-61.85	735	3	0.33	0.79	-0.53	2.74	-1.35	1.39	12.75	-23.43	-779.02	96.50
721	2	0.86	0.21	-2.90	-1.21	-0.71	-0.49	2.01	5.52	-667.08	-24.06	735	4	0.89	0.79	-0.25	2.64	-2.13	-0.85	-3.32	-20.88	-760.95	74.47
721	3	0.86	0.79	-2.28	-1.61	-1.13	0.11	1.60	1.92	-693.97	-20.46	736	1	0.09	0.21	-1.83	-1.80	-2.55	1.41	-25.21	-3.82	-710.99	-157.32
721	4	0.23	0.79	-2.69	-1.17	-1.83	0.13	-1.27	6.25	-685.80	-53.51	736	2	0.35	0.21	-1.53	-1.54	-2.57	2.64	13.70	-3.11	-715.67	-122.24
722	1	0.09	0.21	4.22	-0.26	-1.38	-1.08	-0.71	16.92	-636.70	79.97	736	3	0.35	0.79	-0.22	-4.93	-2.02	9.66	11.21	-14.97	-782.70	-113.47
722	2	0.33	0.21	4.14	-0.51	-0.85	-2.58	9.61	20.92	-616.37	99.10	736	4	0.99	0.79	-2.63	-4.84	-1.93	11.55	-20.42	-5.82	-782.99	-141.91
722	3	0.33	0.79	2.97	0.56	-1.50	-1.19	14.46	9.25	-669.34	100.61	737	1	0.09	0.21	2.49	1.56	-2.29	3.97	-8.51	11.42	-700.84	189.91
722	4	0.09	0.79	3.01	0.78	-2.45	-1.36	-3.12	7.55	-680.52	77.73	737	2	0.33	0.21	2.80	1.80	-2.18	4.80	31.50	9.55	-686.77	231.83
723	1	0.09	0.21	-0.96	3.43	-1.04	-12.67	-9.52	2.47	-582.26	-128.39	737	3	0.33	0.79	7.16	6.26	-1.54	12.54	16.26	27.93	-766.86	175.05
723	2	0.35	0.21	-3.23	2.83	-1.05	-10.84	7.04	9.34	-605.68	-112.36	737	4	0.09	0.79	4.39	5.74	-1.64	12.12	-8.59	12.60	-777.33	158.27
723	3	0.35	0.79	-2.55	0.79	-2.28	-5.87	11.65	5.72	-661.65	-121.93	738	1	0.09	0.21	-3.29	-1.03	-0.98	0.09	-19.33	14.96	-613.08	-319.22

738	2	0.32	0.21	-3.17	-1.22	-0.92	-1.54	-1.85	21.62	-663.86	-271.17
738	3	0.32	0.79	-7.90	-5.32	-0.66	-1.70	2.55	101.10	-739.58	-196.15
738	4	0.09	0.79	-7.15	-5.21	-0.77	-1.77	-9.55	125.18	-697.09	-191.25
739	1	0.13	0.21	-2.75	-1.17	0.25	-1.22	-9.34	-201.35	-691.74	-195.71
739	2	0.47	0.21	-2.99	-0.93	-0.06	-0.51	-8.52	-213.06	-627.51	-261.48
739	3	0.47	0.79	-6.31	-4.86	0.02	-5.14	-5.38	-133.97	-674.37	-150.45
739	4	0.13	0.79	-4.75	-4.40	0.64	-4.18	-7.68	-292.19	-639.65	-100.14
740	1	0.18	0.21	-18.03	-3.39	0.45	4.13	-1.62	-134.63	-549.04	-166.68
740	2	0.67	0.21	-13.57	-4.65	-0.29	6.76	-1.00	-151.67	-634.03	-151.16
740	3	0.67	0.79	-16.26	-3.31	-2.34	5.74	-3.52	-133.26	-624.44	-124.94
740	4	0.18	0.79	-18.86	-2.72	-0.66	2.62	-0.82	-91.68	-545.23	-114.17
741	1	0.21	0.21	-22.83	1.21	1.27	-3.95	9.53	-27.85	-581.09	-141.49
741	2	0.78	0.21	-20.61	-0.21	1.63	3.44	3.62	-82.46	-787.67	-185.69
741	3	0.78	0.79	-20.93	1.30	-0.26	3.18	-0.63	-40.08	-787.87	-109.31
741	4	0.21	0.79	-22.88	2.21	0.23	-1.53	-1.94	11.72	-567.84	-96.52
742	1	0.21	0.34	-0.26	5.47	0.76	-1.82	15.80	-344.93	19.49	-108.17
742	2	0.79	0.34	-0.82	5.03	0.28	-1.82	14.12	-332.15	27.83	-102.67
742	3	0.79	1.28	1.30	18.63	-0.02	0.76	12.87	-256.36	15.28	-108.99
742	4	0.21	1.28	1.67	19.05	-0.08	-2.80	9.91	-263.84	10.83	-129.07
743	1	0.21	0.29	-3.72	-15.55	0.54	0.24	12.63	-390.62	27.32	-62.46
743	2	0.79	0.29	-3.99	-15.61	0.35	-0.52	12.67	-362.69	27.06	-57.64
743	3	0.79	1.09	-2.20	-4.62	0.38	1.09	14.66	-346.52	30.42	-68.16
743	4	0.21	1.09	-1.76	-4.77	0.65	-1.32	14.63	-362.67	33.93	-86.12
744	1	0.21	0.32	-5.70	-26.31	0.38	0.32	4.93	-380.26	26.30	-0.48
744	2	0.79	0.32	-5.77	-26.31	0.33	-0.29	4.90	-370.56	23.53	-0.98
744	3	0.79	1.19	-4.92	-21.42	0.36	-1.06	5.97	-367.11	25.28	-30.67
744	4	0.21	1.19	-4.78	-21.45	0.42	-0.08	6.24	-393.25	25.64	-22.50
745	1	0.21	0.28	-5.42	-25.18	0.38	-0.06	-3.41	-364.95	11.52	-1.52
745	2	0.79	0.28	-5.46	-25.19	0.35	-0.04	-3.39	-370.76	19.57	5.35
745	3	0.79	1.06	-5.92	-27.30	0.34	-0.38	-2.09	-367.03	18.79	3.71
745	4	0.21	1.06	-5.87	-27.28	0.36	0.12	-2.00	-370.89	5.91	-14.76
746	1	0.30	0.21	-1.78	-1.43	-1.59	-0.19	-4.14	-5.16	-735.70	-10.78
746	2	1.10	0.21	-0.79	-1.77	-2.03	-0.76	5.32	-1.24	-690.76	3.37
746	3	1.10	0.79	-1.55	-0.73	-1.44	-10.00	7.70	-1.11	-689.43	-3.96
746	4	0.30	0.79	-2.66	-0.77	-1.83	-4.55	-5.45	-14.19	-755.67	-4.06
747	1	0.23	0.21	0.22	-2.97	-1.18	-1.22	-1.29	-22.87	-769.92	-61.87
747	2	0.86	0.21	-1.22	-1.32	-0.67	-0.67	4.96	-12.97	-749.79	-31.39
747	3	0.86	0.79	-1.19	-0.59	-0.23	1.02	5.50	-8.89	-777.65	-49.85
747	4	0.23	0.79	0.02	-1.46	-0.20	-1.46	-1.53	-13.99	-806.74	-60.46
748	1	0.09	0.21	-1.14	2.83	-1.10	0.03	-3.79	-24.59	-795.09	77.52
748	2	0.33	0.21	-1.54	3.12	-0.70	1.71	5.84	-26.85	-812.26	93.69
748	3	0.33	0.79	-1.86	2.46	0.22	-0.20	-4.23	-24.58	-814.95	97.34
748	4	0.09	0.79	-1.26	2.18	0.72	-0.75	-2.47	-27.20	-827.31	105.23
749	1	0.09	0.21	-2.87	-6.33	-1.10	16.78	-8.78	-8.92	-824.94	-114.93
749	2	0.35	0.21	0.39	-5.48	-1.05	14.62	7.11	-21.26	-818.59	-103.15
749	3	0.35	0.79	0.84	-4.49	0.50	15.21	1.46	-23.73	-811.91	-86.83
749	4	0.09	0.79	-2.45	-5.35	0.40	15.78	7.29	-10.33	-818.41	-71.72
750	1	0.09	0.21	5.42	7.39	-1.01	15.14	-5.09	11.24	-810.75	126.24
750	2	0.33	0.21	9.16	8.03	-1.00	18.07	14.34	43.11	-761.47	144.31
750	3	0.33	0.79	9.21	8.05	0.18	22.99	-7.75	50.43	-817.76	54.36
750	4	0.09	0.79	5.19	7.07	0.25	19.10	-2.52	21.85	-819.21	68.47
751	1	0.09	0.21	-9.17	-6.44	-0.53	-2.98	-5.73	45.36	-725.45	-143.06
751	2	0.32	0.21	-10.14	-6.77	-0.47	-5.51	1.25	9.45	-751.90	-138.78
751	3	0.32	0.79	-10.57	-7.23	-0.15	-4.68	2.69	119.40	-774.15	-60.28
751	4	0.09	0.79	-9.97	-6.83	-0.31	-0.01	0.63	182.01	-658.30	-122.62
752	1	0.13	0.21	-6.38	-5.66	0.54	-2.86	-3.82	-243.64	-736.36	78.45
752	2	0.47	0.21	-8.11	-6.13	-0.10	-7.02	-2.93	-82.43	-753.58	-65.71
752	3	0.47	0.79	-8.96	-6.37	-0.37	-6.49	1.41	-329.19	-730.65	16.10
752	4	0.13	0.79	-7.86	-5.61	0.00	-3.19	0.19	-290.27	-668.76	90.29
753	1	0.18	0.21	-20.34	-2.87	-0.95	3.69	-1.57	-62.78	-551.52	-70.67
753	2	0.67	0.21	-18.73	-2.54	-2.66	1.66	-7.87	-107.24	-599.25	-41.07
753	3	0.67	0.79	-21.74	-2.72	-2.23	1.23	-5.28	-82.73	-555.56	-85.62
753	4	0.18	0.79	-22.15	-3.24	-0.96	1.94	-2.60	-95.00	-538.46	-21.18
754	1	0.21	0.21	-23.77	0.98	-0.66	2.31	-9.22	7.56	-571.42	-91.06
754	2	0.78	0.21	-21.97	1.12	-1.01	2.81	-1.42	-32.56	-769.96	-62.43
754	3	0.78	0.79	-22.89	0.15	-1.23	2.30	-1.09	-14.38	-777.50	-21.29
754	4	0.21	0.79	-24.15	-0.30	-0.90	2.40	5.54	5.00	-608.36	-50.59
755	1	0.21	0.34	-0.76	4.87	-0.03	1.03	14.73	-322.47	31.62	-101.39
755	2	0.79	0.34	-0.60	4.67	-0.19	-0.30	14.62	-316.25	34.18	-105.44
755	3	0.79	1.28	2.42	19.14	-0.03	1.34	15.86	-285.72	13.93	-80.51
755	4	0.21	1.28	1.81	18.73	-0.09	1.15	16.21	-278.95	13.76	-96.59
756	1	0.21	0.29	-4.07	-15.68	0.21	-0.07	12.70	-343.98	24.87	-58.85
756	2	0.79	0.29	-4.02	-15.69	0.03	-0.19	12.57	-315.75	20.11	-66.18
756	3	0.79	1.09	-2.20	-4.68	-0.07	0.78	13.85	-322.16	15.78	-89.71
756	4	0.21	1.09	-2.26	-4.62	0.20	-1.38	13.41	-335.72	25.56	-88.87
757	1	0.21	0.32	-5.80	-26.32	0.29	0.11	4.79	-358.37	22.37	-1.41
757	2	0.79	0.32	-5.79	-26.38	0.22	-0.32	4.78	-348.13	18.08	-1.81
757	3	0.79	1.19	-5.00	-21.50	0.10	-0.46	6.09	-333.26	19.81	-25.41
757	4	0.21	1.19	-5.02	-21.43	0.26	0.78	6.21	-350.29	23.58	-31.79
758	1	0.21	0.28	-5.47	-25.21	0.34	-0.03	-2.43	-372.72	29.94	5.25
758	2	0.79	0.28	-5.45	-25.24	0.33	0.05	-2.46	-378.33	32.06	-1.80
758	3	0.79	1.06	-5.92	-27.34	0.28	-0.38	-2.07	-364.49	38.02	14.06
758	4	0.21	1.06	-5.93	-27.31	0.32	0.27	-2.09	-368.54	26.30	3.41
759	1	0.30	0.25	-3.09	0.07	-1.19	0.69	-2.28	-39.54	-711.25	8.17
759	2	1.10	0.37	-3.33	1.51	-2.07	-0.51	2.17	-35.78	-711.37	-30.69
759	3	1.10	0.95	-8.75	2.21	-1.33	-8.35	-16.79	-52.16	-695.09	-2.59
759	4	0.30	0.83	-2.66	0.80	0.01	1.21	-3.05	-32.70	-730.80	-14.59
760	1	0.23	0.21	-0.63	-0.68	0.34	-2.77	-2.00	9.42	-867.55	-98.41
760	2	0.86	0.21	-1.94	-0.89	0.07	-1.58	-0.77	7.69	-852.47	-12.69
760	3	0.86	0.79	-3.09	-0.13	-0.07	0.54	6.48	-17.74	-393.74	62.34
760	4	0.23	0.79	-2.01	-0.31	0.79	-2.51	-3.15	-15.08	-907.52	-169.63
761	1	0.09	0.21	-0.55	0.95	1.51	-1.59	-4.90	-34.25	-755.03	116.59
761	2	0.33	0.21	-1.15	0.83	0.80	-0.70	-9.17	-38.54	-777.82	91.46
761	3	0.33	0.79	0.91	0.21	1.09	-2.35	-9.19	-25.54	-726.11	70.04
761	4	0.09	0.79	1.09	0.31	1.80	-0.23	4.07	-35.42	-767.68	91.03
762	1	0.09	0.21	-2.07	-2.46	1.47	11.49	19.22	-13.33	-781.17	-46.69
762	2	0.35	0.21	0.43	-2.04	1.47	10.92	-4.24	-24.63	-785.35	-74.43
762	3	0.35	0.79	-1.17	0.44	1.85	3.88	-12.33	-10.94	-712.21	-51.96
762	4	0.09	0.79	-1.70	0.17	1.86	1.90	16.34	-13.48	-714.12	-30.40
763	1	0.09	0.21	3.80	3.61	1.42	13.38	1.16	2.92	-772.83	17.33
763	2	0.33	0.21	6.95	4.26	1.34	14.05	-22.16	25.82	-756.75	-9.71
763	3	0.33	0.79	2.88	-0.81	1.56	-0.26	-20.59	-23.78	-692.08	-12.41
763	4	0.09	0.79	2.29	-0.77	1.65	2.06	3.20	-17.05	-708.62	10.86
764	1	0.09	0.21	-8.08	-4.19	0.04	1.78	16.70	63.96	-763.84	106.87
764	2	0.32	0.21	-8.03	-4.11	0.32	1.54	7.15	38.85	-750.31	38.57
764	3	0.32	0.79	-3.53	0.24	0.57	7.20	-0.29	-67.24	-690.38	20.93
764	4	0.09	0.79	-4.79	-0.23	0.57	4.99	8.12	-82.10	-700.37	5.59
765	1	0.13	0.21	-7.96	-4.04	-0.47	0.65	4.33	-163.67	-629.02	130.57
765	2	0.47	0.21	-8.12	-4.21	-0.50	-0.99	6.78	-249.59	-782.23	218.51
765	3	0.47	0.79	-5.73	-0.90	-0.11	5.88	4.83	-25.78	-671.21	19.48
765	4	0.13	0.79	-7.32	-1.72	-0.48	5.54	5.23	-74.62	-628.69	71.07
766	1	0.18	0.21	-23.25	-3.52	-0.83	1.94	-1.10	-48.27	-528.49	7.36
766	2	0.67	0.21	-23.21	-2.87	-1.57	0.83	-1.56	-84.50	-530.25	-12.68
766	3	0.67	0.79	-23.95	-3.18	-0.66	1.36	-2.77	-106.14	-498.59	41.91
766	4	0.18	0.79	-24.19	-3.99	-0.39	1.42	-1.50	-70.26	-523.21	46.26
767	1	0.21	0.21	-24.37	-1.04	-0.50	1.35	-3.74	10.68	-657.38	-34.31

767	2	0.78	0.21	-23.74	-0.85	-1.04	1.32	-2.46	-17.53	-287.45	4.94
767	3	0.78	0.79	-24.93	-2.52	-0.65	2.17	-1.76	-61.27	-311.29	51.79
767	4	0.21	0.79	-24.64	-2.94	-0.46	0.37	-6.47	21.29	-711.82	-11.83
768	1	0.21	0.34	-0.24	4.80	-0.29	1.44	14.71	-332.91	30.69	-100.26
768	2	0.79	0.34	0.18	5.20	-0.32	1.32	18.60	-354.10	17.33	-84.19
768	3	0.79	1.28	3.58	19.71	0.90	5.73	15.25	-323.02	11.72	-60.32
768	4	0.21	1.28	2.16	19.27	-0.01	-0.29	15.27	-292.29	16.45	-70.82
769	1	0.21	0.29	-3.94	-15.73	-0.07	0.52	13.02	-293.64	5.15	-69.05
769	2	0.79	0.29	-3.66	-15.79	-0.23	0.13	12.60	-247.10	-19.49	-52.96
769	3	0.79	1.09	-1.90	-5.00	-0.39	-1.58	12.16	-294.01	50.10	-137.21
769	4	0.21	1.09	-1.91	-4.75	-0.26	0.26	14.46	-302.95	21.66	-105.77
770	1	0.21	0.32	-5.74	-26.44	0.17	0.35	8.70	-333.48	28.02	14.16
770	2	0.79	0.32	-5.63	-26.52	0.12	-0.40	4.73	-329.93	60.94	49.62
770	3	0.79	1.19	-4.67	-21.69	-0.07	0.57	6.75	-254.55	-14.06	-31.88
770	4	0.21	1.19	-4.96	-21.58	0.02	0.16	6.05	-300.08	7.18	-21.35
771	1	0.21	0.28	-5.42	-25.28	0.32	-0.04	-3.38	-380.37	38.29	1.32
771	2	0.79	0.28	-5.35	-25.33	0.31	0.09	-3.47	-377.69	42.00	8.99
771	3	0.79	1.06	-5.81	-27.46	0.22	-0.46	-2.12	-392.20	29.27	-9.42
771	4	0.21	1.06	-5.86	-27.38	0.24	0.44	-2.06	-374.22	39.85	10.81
772	1	0.36	0.08	-3.61	-0.17	-0.56	-13.49	-0.11	-119.77	61.02	-44.44
772	2	1.35	0.08	-19.89	0.95	3.41	-13.16	13.80	-111.52	-79.52	46.79
772	3	1.35	0.32	-20.01	0.69	-3.74	-13.67	-16.11	-164.87	-85.22	-48.76
772	4	0.36	0.32	-3.62	-0.15	0.03	-15.67	2.73	-176.33	61.13	42.50
773	1	0.32	0.08	15.22	0.28	-0.44	-13.38	0.63	-133.78	32.74	-72.11
773	2	1.19	0.08	5.82	-0.78	-0.97	-13.22	-6.02	-126.11	-53.21	41.99
773	3	1.19	0.32	5.87	-0.72	0.45	-7.18	2.95	-171.27	-51.62	-44.04
773	4	0.32	0.32	15.11	0.27	-0.24	-9.07	2.84	-163.46	32.76	30.05
774	1	0.28	0.08	-20.13	0.11	0.05	-8.49	0.28	-139.24	-23.72	-27.89
774	2	1.06	0.08	-24.55	-0.10	-0.41	-8.65	-1.26	-145.95	7.75	26.79
774	3	1.06	0.32	-24.39	-0.08	-0.28	-3.26	-2.04	-151.96	7.71	-24.90
774	4	0.28	0.32	-20.26	0.11	-0.64	-1.89	3.78	-158.69	-24.19	29.88
775	1	0.17	0.12	29.11	-1.25	-0.19	-5.75	1.35	-269.31	-74.90	-30.27
775	2	0.62	0.12	24.54	-0.19	-0.11	-7.57	-0.02	-247.00	-170.78	-1.99
775	3	0.53	0.45	25.85	-0.15	1.14	-7.34	0.58	-241.68	-203.80	-35.63
775	4	0.14	0.44	29.73	-0.87	0.76	-5.56	4.15	-274.40	-89.58	-10.00
776	1	0.12	0.12	20.61	0.50	-0.18	-9.37	0.92	-233.64	-232.60	16.45
776	2	0.58	0.43	15.59	1.36	-0.30	-7.62	0.37	-182.55	-321.65	-4.76
776	3	0.37	0.50	17.74	1.27	1.34	-5.58	-1.85	-235.69	-247.96	-50.27
776	4	-0.02	0.47	22.18	0.45	1.29	-7.74	1.73	-322.32	-192.08	32.66
777	1	0.08	0.14	12.55	1.50	-0.44	-7.44	1.69	-142.49	-423.84	-16.68
777	2	0.53	0.16	9.15	1.52	-0.38	-5.50	0.32	-85.92	-541.53	-31.72
777	3	0.19	0.59	11.34	2.49	0.60	-2.10	2.06	-148.37	-444.20	-85.90
777	4	-0.18	0.53	14.52	1.73	1.02	-5.17	0.03	-198.17	-319.14	-66.70
778	1	0.13	0.12	30.29	0.06	0.28	-6.34	7.50	-291.77	-76.12	-11.96
778	2	0.47	0.12	26.71	0.40	0.57	-10.55	3.94	-248.70	-48.19	-101.74
778	3	0.39	0.45	29.39	0.90	2.55	-3.61	2.90	-348.58	-19.87	-49.24
778	4	0.12	0.44	33.24	0.62	0.58	-11.92	5.90	-316.64	-28.79	-20.25
779	1	0.10	0.13	23.59	0.58	-1.02	-13.02	3.81	-315.55	-28.41	-4.55
779	2	0.43	0.14	19.31	0.72	-0.64	-13.66	0.24	-278.32	-183.08	-58.71
779	3	0.27	0.53	21.71	0.95	2.78	4.60	2.10	-307.07	-64.77	-77.52
779	4	0.00	0.48	26.48	0.68	1.58	0.68	4.25	-341.97	-29.65	-50.04
780	1	0.06	0.16	16.31	1.14	-1.54	-14.03	0.53	-284.60	-210.70	-83.93
780	2	0.39	0.18	12.81	1.47	-1.03	-12.54	-3.80	-247.74	-290.65	-145.40
780	3	0.14	0.67	14.86	1.13	2.45	5.01	2.49	-282.71	-133.46	-147.23
780	4	-0.12	0.59	18.92	0.66	1.78	5.05	2.80	-301.20	-59.86	-97.68
781	1	0.16	0.12	-31.35	1.79	-0.36	-2.48	-0.87	-279.39	-75.33	-5.33
781	2	0.61	0.12	-32.07	1.97	-0.62	0.10	-0.68	-237.22	-138.65	7.28
781	3	0.52	0.45	-32.91	1.95	-0.69	-0.63	-3.26	-285.04	-119.86	-28.39
781	4	0.14	0.44	-31.78	1.45	0.19	-4.16	-3.09	-301.47	-72.99	-1/
782	1	0.12	0.12	-31.20	1.52	-0.79	2.09	-0.11	-281.62	-262.55	-97.53
782	2	0.57	0.13	-28.86	0.09	-0.79	2.18	-1.12	-303.27	-151.77	-29.99
782	3	0.36	0.50	-30.54	1.25	-2.38	-0.55	0.29	-216.30	-279.26	-39.01
782	4	-0.01	0.47	-32.21	1.93	-1.62	-0.95	-2.12	-251.65	-169.93	-59.58
783	1	0.08	0.14	-27.10	-0.67	-0.70	3.20	-0.35	-171.98	-320.95	-10.07
783	2	0.52	0.16	-25.13	-1.74	-0.72	1.50	3.07	-122.51	-401.59	14.96
783	3	0.19	0.58	-26.33	-1.97	-3.17	-6.10	-3.28	-139.43	-330.09	-55.19
783	4	-0.18	0.53	-28.28	0.26	-3.13	-4.63	0.19	-189.99	-312.29	-81.65
784	1	0.13	0.12	-32.09	0.17	2.44	-2.06	-2.11	-297.58	-169.08	3.55
784	2	0.46	0.12	-33.40	1.18	1.92	4.23	-7.37	-292.10	-83.53	-38.80
784	3	0.39	0.45	-35.94	-0.20	-0.80	-27.26	-9.08	-295.39	-26.61	-39.38
784	4	0.12	0.44	-34.88	-0.59	1.58	-19.33	-5.59	-306.99	-10.57	6.76
785	1	0.10	0.13	-33.14	1.44	3.94	9.94	-5.94	-281.82	-102.31	-47.57
785	2	0.43	0.14	-31.98	2.48	2.99	14.41	-3.81	-277.72	-190.59	-113.41
785	3	0.27	0.53	-34.23	0.48	-2.07	-35.22	-11.73	-285.35	-77.56	-102.10
785	4	0.00	0.48	-35.67	0.11	0.16	-32.67	-10.36	-295.80	-38.09	-51.18
786	1	0.06	0.16	-30.30	2.19	4.35	20.44	-0.27	-258.13	-207.59	-125.56
786	2	0.39	0.18	-27.83	2.47	2.94	18.62	9.00	-219.43	-311.67	-149.37
786	3	0.14	0.66	-29.92	1.79	-2.71	-30.30	-16.45	-314.67	-175.14	-190.34
786	4	-0.11	0.59	-32.86	1.47	-0.75	-35.77	-12.89	-312.83	-47.13	-131.27
787	1	0.36	0.12	-2.57	-25.02	1.56	0.93	0.29	-991.12	-100.25	-9.89
787	2	0.90	0.10	-2.23	-23.27	2.73	3.84	-1.98	-484.98	-92.69	34.06
787	3	1.21	0.37	-1.53	-23.15	4.09	-0.53	0.36	-493.63	-100.77	90.77
787	4	0.76	0.46	-1.19	-23.63	2.46	-1.14	1.69	-434.45	-122.60	64.93
788	1	0.30	0.09	-1.90	-21.53	3.68	2.96	0.31	-530.58	-83.78	63.76
788	2	0.85	0.07	-2.24	-18.01	4.50	5.09	1.71	-591.17	-106.21	95.69
788	3	1.01	0.27	-2.62	-16.22	6.34	5.84	4.61	-642.20	-130.65	139.40
788	4	0.54	0.32	-0.91	-20.80	4.83	3.95	-1.52	-557.02	-107.78	113.05
789	1	0.25	0.07	-3.71	-14.20	4.19	4.48	6.01	-649.01	-134.47	121.37
789	2	0.80	0.06	-5.32	-10.17	1.37	-2.69	8.76	-669.25	-138.52	118.96
789	3	0.83	0.22	-6.61	-7.10	1.76	-1.65	9.15	-743.08	-122.24	116.65
789	4	0.35	0.24	-4.43	-10.84	5.51	3.72	7.94	-706.50	-139.89	147.49
790	1	0.27	0.16	-3.85	-23.45	11.94	14.81	-7.46	-455.02	-93.66	31.27
790	2	0.66	0.13	-4.47	-18.66	12.92	18.47	-0.73	-552.04	-83.58	32.93
790	3	0.89	0.47	-8.68	-11.29	11.53	-37.96	15.87	-628.29	-87.82	176.03
790	4	0.57	0.59	-6.59	-17.54	13.29	-27.30	19.57	-450.11	-117.92	174.20
791	1	0.24	0.10	-4.08	-17.19	11.92	15.33	7.66	-617.26	-96.26	91.56
791	2	0.65	0.08	-6.25	-9.94	9.82	4.40	6.76	-735.04	-105.75	95.91
791	3	0.78	0.30	-8.90	-3.02	6.25	-36.35	11.48	-913.80	-79.21	165.98
791	4	0.44	0.37	-7.42	-8.32	9.56	-38.81	15.75	-718.18	-111.70	228.26
792	1	0.20	0.07	-6.40	-7.28	6.44	1.97	12.20	-793.94	-116.84	140.37
792	2	0.62	0.06	-8.08	-4.03	1.38	-2.21	9.39	-823.33	-83.12	66.73
792	3	0.64	0.23	-8.65	-0.59	0.17	-5.61	4.31	-950.87	-26.08	22.68
792	4	0.29	0.25	-8.15	-2.98	4.40	-26.88	10.80	-947.07	-65.86	175.58
793	1	0.20	0.06	-5.84	-10.26	-2.37	0.94	9.01	-637.41	-125.97	70.23
793	2	0.75	0.07	-5.11	-14.38	-5.02	-5.11	6.31	-552.63	-133.09	-5.34
793	3	0.65	0.24	-5.60	-11.02	-6.32	-4.29	7.40	-590.07	-100.45	-33.41
793	4	0.17	0.22	-7.07	-7.19	-2.69	-0.07	9.75	-695.31	-98.57	45.10
794	1	0.15	0.07	-3.89	-18.22	-5.02	-5.41	2.93	-469.01	-167.63	-44.54
794	2	0.70	0.09	-3.44	-21.74	-3.63	-1.94	4.60	-381.36	-210.05	-95.97
794	3	0.46	0.32	-2.24	-20.99	-5.06	-3.58	-0.25	-397.23	-176.37	-118.81
794	4	-0.01	0.27	-4.04	-16.47	-6.98	-6.23	5.41	-492.22	-138.22	-71.16
795	1	0.10	0.10	-3.42	-23.38	-2.29	-3.06	-0.78	-462.89	-169.02	-119.94
795	2	0.64	0.12	-3.11	-24.94	-0.78	0.23	1.01	-444.02	-172.65	-71.34
795	3	0.24	0.46	-1.91	-23.64	-1.89	1.60	2.21	-377.56	-197.52	-100.56
795	4	-0.21	0.37	-2.64	-23.28	-3.92	1.25	1.44	-394.18	-171.82	-129.15
796	1	0.16	0.06	-8.57	-4.03	-2.23	0.76	9.42	-748.27	-81.46	60.90

796	2	0.58	0.07	-7.59	-7.46	-7.19	-2.81	11.70	-625.00	-74.59	-36.21
796	3	0.49	0.25	-9.43	-3.15	-4.87	28.48	10.56	-675.99	-35.71	-104.33
796	4	0.14	0.23	-9.08	-0.61	-0.57	7.67	9.77	-862.12	-70.57	25.21
797	1	0.12	0.08	-7.72	-10.06	-10.36	-4.37	6.92	-538.55	-93.46	-36.30
797	2	0.53	0.10	-5.35	-17.29	-12.12	-14.79	8.46	-440.07	-109.95	-93.92
797	3	0.33	0.37	-8.68	-8.47	-9.99	39.72	15.90	-449.39	-83.25	-145.66
797	4	-0.01	0.30	-10.43	-3.15	-6.73	-37.42	-11.56	-597.37	-42.86	-88.73
798	1	0.07	0.13	-5.38	-18.86	-12.79	-17.47	0.17	-423.46	-107.41	-80.21
798	2	0.46	0.16	-4.27	-23.73	-11.53	-13.58	-6.50	-380.11	-147.06	-81.28
798	3	0.16	0.59	-6.93	-17.68	-13.27	-28.04	20.79	-313.02	-116.01	-145.35
798	4	-0.16	0.47	-9.62	-11.41	-11.73	38.70	16.42	-407.51	-70.30	-130.86
799	1	0.29	0.16	-25.02	-2.04	-0.11	-1.48	1.84	-176.25	-424.70	52.95
799	2	0.74	0.14	-26.93	-0.83	-0.16	-2.93	-1.20	-226.30	-737.18	27.68
799	3	1.00	0.53	-28.17	0.00	2.37	5.44	-0.24	-261.62	-262.02	62.20
799	4	0.63	0.58	-26.26	-2.45	2.47	6.92	-3.92	-218.30	-339.21	82.41
800	1	0.25	0.13	-28.67	-0.01	-0.10	-2.23	-1.43	-271.71	-285.90	6.64
800	2	0.69	0.12	-30.97	1.45	-0.17	-2.02	-0.25	-313.87	-129.15	-3.58
800	3	0.83	0.47	-32.04	1.93	0.70	1.54	-2.08	-296.85	-152.12	47.98
800	4	0.45	0.50	-30.42	1.12	2.07	1.15	-2.16	-303.77	-214.81	26.92
801	1	0.20	0.12	-31.83	1.90	-0.41	-0.11	-0.63	-284.81	-112.87	73.53
801	2	0.65	0.12	-31.10	1.73	-0.74	2.39	-0.82	-339.20	-99.73	11.81
801	3	0.68	0.44	-31.56	1.47	-1.27	4.50	-2.90	-332.69	-84.38	31.96
801	4	0.29	0.45	-32.75	1.98	-0.31	1.03	-3.21	-317.87	-92.97	52.20
802	1	0.22	0.18	-27.67	1.92	-3.36	-17.89	8.90	-274.57	-236.91	111.92
802	2	0.54	0.16	-30.04	1.89	-4.97	-20.42	-0.13	-302.06	-168.91	73.98
802	3	0.72	0.59	-32.66	1.51	0.35	38.19	-13.15	-331.72	-69.08	85.16
802	4	0.46	0.66	-29.92	1.65	2.55	32.02	-16.86	-295.92	-122.24	133.50
803	1	0.19	0.14	-31.78	2.40	-3.80	-14.39	-3.55	-321.81	-90.76	-52.32
803	2	0.52	0.13	-32.87	1.40	-4.95	-10.39	-5.64	-313.10	-68.72	75.59
803	3	0.62	0.48	-35.34	0.24	-0.82	36.36	-10.50	-360.39	-18.21	59.49
803	4	0.35	0.53	-34.02	0.63	1.54	38.08	-12.05	-338.47	-45.24	97.48
804	1	0.16	0.12	-33.20	1.28	-3.06	-4.81	-7.07	-325.33	-66.06	52.58
804	2	0.50	0.12	-31.83	0.14	-3.66	1.40	-7.04	-320.31	-57.51	31.79
804	3	0.51	0.44	-34.60	0.57	-2.30	23.92	-5.53	-334.84	-20.04	14.77
804	4	0.23	0.45	-35.69	-0.06	0.10	31.43	-9.35	-343.75	-42.79	59.20
805	1	0.17	0.12	-28.88	1.17	-0.95	5.73	-1.16	-338.58	-104.96	22.57
805	2	0.62	0.12	-24.33	0.15	-1.10	7.32	0.44	-309.40	-186.59	-14.17
805	3	0.53	0.45	-25.62	0.22	-2.22	7.90	-0.29	-313.86	-143.03	-26.25
805	4	0.14	0.44	-29.53	0.86	-1.86	5.92	-4.15	-329.72	-79.49	17.35
806	1	0.12	0.12	-20.43	-0.51	-1.41	8.56	0.06	-291.23	-258.37	-56.73
806	2	0.58	0.13	-15.47	-1.25	-1.04	7.39	1.80	-255.30	-339.59	-37.37
806	3	0.37	0.50	-17.55	-0.61	-2.45	6.84	3.16	-240.56	-290.67	-97.64
806	4	-0.02	0.47	-22.02	-0.19	-2.39	8.79	-1.22	-283.34	-189.53	-69.10
807	1	0.08	0.14	-12.40	-1.29	-0.93	7.80	1.22	-194.85	-422.32	-8.87
807	2	0.53	0.16	-9.03	-0.92	-0.70	6.78	4.61	-115.51	-539.54	5.04
807	3	0.19	0.59	-10.85	-0.99	-1.72	4.19	0.93	-141.46	-487.08	-66.45
807	4	-0.18	0.53	-14.19	-0.68	-2.16	6.14	1.92	-205.59	-390.16	-89.84
808	1	0.13	0.12	-30.14	0.03	-1.52	5.63	-7.52	-326.76	-68.07	19.83
808	2	0.47	0.12	-26.54	-0.36	-1.73	10.36	-4.19	-311.25	-82.59	-25.20
808	3	0.39	0.45	-29.24	-0.94	-3.17	7.74	-2.69	-286.45	-25.95	-35.15
808	4	0.12	0.44	-33.09	-0.60	-1.31	16.55	-5.97	-309.34	-16.34	12.41
809	1	0.10	0.13	-23.51	-0.26	0.05	12.91	-3.94	-313.37	-118.16	-54.25
809	2	0.43	0.14	-19.18	0.04	-0.08	15.03	-0.35	-284.10	-203.59	-118.38
809	3	0.27	0.53	-21.53	-0.75	-3.03	-2.08	-1.72	-275.08	-83.99	-103.82
809	4	0.00	0.48	-26.40	-0.73	-2.14	2.98	-4.33	-278.30	-32.36	-45.03
810	1	0.06	0.16	-16.33	0.22	1.09	16.42	0.23	-273.54	-259.55	-153.55
810	2	0.39	0.18	-12.52	0.81	0.82	15.01	5.48	-233.47	-387.88	-184.91
810	3	0.14	0.67	-14.30	0.25	-1.84	-3.13	-2.92	-314.79	-206.03	-212.94
810	4	-0.12	0.59	-18.60	-0.09	-1.72	-3.04	-2.99	-303.72	-107.93	-137.43
811	1	0.36	0.13	-0.49	-7.67	0.69	2.98	-7.24	-575.42	-99.13	6.16
811	2	0.90	0.10	0.54	-5.99	0.70	3.99	-5.59	-622.89	-70.84	49.72
811	3	1.21	0.38	0.74	-7.20	1.19	2.84	-6.36	-617.01	-89.06	105.15
811	4	0.77	0.47	-0.04	-8.47	1.06	2.10	-5.67	-553.71	-118.85	91.84
812	1	0.30	0.09	1.47	-4.86	0.78	3.74	-5.46	-662.06	-71.63	77.73
812	2	0.85	0.08	2.49	-3.45	0.83	2.93	-5.70	-723.67	-111.49	109.62
812	3	1.01	0.28	2.45	-3.77	1.27	3.13	-6.29	-774.48	-134.62	154.54
812	4	0.54	0.33	1.93	-5.68	1.07	3.58	-6.52	-684.65	-98.90	129.29
813	1	0.25	0.07	2.66	-2.59	0.66	1.08	-1.65	-762.99	-124.00	134.67
813	2	0.80	0.06	1.07	-1.84	-0.05	-4.27	-0.01	-812.43	-177.28	178.06
813	3	0.83	0.24	0.63	-1.49	0.14	-4.36	-0.49	-878.09	-146.99	144.89
813	4	0.35	0.25	2.23	-2.43	1.03	0.46	-0.30	-840.23	-149.51	173.69
814	1	0.27	0.16	-1.35	-9.26	4.88	10.58	-9.08	-558.45	-80.69	19.16
814	2	0.66	0.13	-0.15	-6.32	4.56	11.82	-4.94	-668.01	-72.52	19.45
814	3	0.89	0.48	-1.46	-3.93	3.82	-8.45	2.90	-733.04	-96.23	191.04
814	4	0.57	0.60	-2.77	-7.30	5.58	-4.03	2.27	-516.29	-112.31	180.54
815	1	0.24	0.10	1.07	-5.25	3.68	9.36	-1.55	-743.86	-94.32	90.72
815	2	0.65	0.08	1.50	-2.50	2.68	3.32	-0.67	-873.13	-104.78	93.40
815	3	0.78	0.31	0.93	-0.66	1.35	-11.27	0.33	-1095.87	-89.51	198.03
815	4	0.44	0.38	0.15	-2.61	2.51	-10.29	2.98	-853.40	-121.29	256.91
816	1	0.20	0.07	1.65	-1.71	-1.48	-0.03	2.27	-951.27	-146.61	170.20
816	2	0.62	0.06	0.19	-0.84	0.18	-4.58	1.43	-962.27	-94.97	91.92
816	3	0.63	0.24	-0.02	-0.08	-0.02	-6.55	3.21	-1129.36	-70.21	37.53
816	4	0.29	0.26	1.23	-0.77	0.79	-9.72	3.39	-1139.40	-78.40	204.61
817	1	0.20	0.06	-1.26	-2.24	-0.79	-5.39	1.19	-772.08	-127.88	99.04
817	2	0.75	0.07	-3.56	-3.86	-1.21	-4.80	1.41	-655.24	-179.56	82.16
817	3	0.65	0.25	-3.21	-2.79	-1.71	-4.88	1.11	-640.79	-227.41	52.30
817	4	0.17	0.24	-1.42	-1.57	-0.82	-5.19	3.11	-833.83	-94.57	83.08
818	1	0.15	0.08	-4.08	-5.44	-0.99	-3.48	2.48	-715.00	-333.31	-109.10
818	2	0.70	0.09	-3.54	-7.08	-0.32	-0.16	-0.55	-622.16	-93.60	-119.31
818	3	0.46	0.33	-3.49	-6.93	-1.24	-2.82	-1.19	-580.23	-158.49	-164.74
818	4	-0.01	0.28	-3.81	-4.82	-1.83	-4.86	1.43	-735.74	-179.86	-29.69
819	1	0.10	0.10	-2.74	-7.96	0.05	0.44	-2.34	-626.28	-128.51	-114.32
819	2	0.64	0.13	-1.80	-8.53	0.18	1.19	-5.07	-582.69	-62.84	-51.43
819	3	0.23	0.47	-2.37	-9.46	-0.23	0.22	-3.97	-495.97	-136.77	-109.77
819	4	-0.21	0.38	-3.20	-8.45	-0.86	0.16	-2.38	-544.32	-149.19	-150.71
820	1	0.16	0.06	-1.70	-0.91	-0.66	-4.80	1.94	-885.54	-111.27	108.73
820	2	0.58	0.07	-3.48	-1.88	-1.79	-5.18	1.80	-646.34	-109.40	-78.12
820	3	0.49	0.26	-3.76	-0.90	-1.37	1.19	0.95	-790.52	-29.68	-119.56
820	4	0.14	0.24	-1.64	-0.13	-0.18	-3.92	1.85	-977.47	-40.94	36.41
821	1	0.12	0.08	-4.51	-2.89	-2.61	-4.28	2.02	-707.80	-62.17	-28.35
821	2	0.53	0.10	-4.40	-5.66	-3.31	-5.98	1.86	-590.15	-152.98	-105.26
821	3	0.32	0.38	-5.32	-2.80	-3.42	5.45	2.23	-507.98	-92.02	-142.31
821	4	-0.01	0.31	-4.98	-0.78	-1.94	2.85	1.99	-689.46	-52.88	-92.50
822	1	0.07	0.13	-4.32	-7.09	-3.68	-7.21	-1.97	-545.26	-69.22	-62.04
822	2	0.46	0.16	-3.77	-10.08	-3.87	-5.66	-5.51	-474.41	-117.39	-75.28
822	3	0.16	0.60	-5.53	-7.60	-5.78	3.15	3.70	-339.92	-107.07	-145.07
822	4	-0.16	0.48	-5.94	-4.10	-4.21	5.81	3.18	-441.10	-75.19	-151.84
823	1	0.13	0.21	-6.26	-0.38	-0.14	5.29	4.22	-111.44	-619.55	23.92
823	2	0.47	0.21	-4.11	0.13	0.33	7.41	2.36	-42.65	-659.98	20.89
823	3	0.47	0.79	-2.45	0.98	0.28	6.15	1.82	-32.24	-651.17	-25.95
823	4	0.13	0.79	-4.76	0.61	-0.17	7.06	3.60	-48.40	-642.13	-29.88
824	1	0.09	0.21	-2.96	0.47	0.89	5.05	5.36	-16.11	-670.14	22.16
824	2	0.32	0.21	-1.45	0.91	0.64	7.76	-6.62	5.74	-673.85	-14.15
824	3	0.32	0.79	-0.13	1.07	0.53	3.09	-3.51	-28.39	-648.43	-25.90
824	4	0.09	0.79	-1.09	1.03	0.71	3.84	3.64	-37.35	-649.58	-27.76
825	1	0.09	0.21	1.46	-1.08	1.10	0.12	10.78	-5.70	-675.20	30.99

825	2	0.33	0.21	1.03	-1.17	1.10	-3.52	-5.74	-23.45	-679.65	22.37
825	3	0.33	0.79	0.07	-0.83	0.82	-3.29	-9.07	-5.84	-644.13	30.17
825	4	0.09	0.79	0.85	-0.78	0.80	-3.87	6.12	-1.07	-650.39	44.19
826	1	0.09	0.21	-1.73	0.35	1.36	-5.32	10.06	0.34	-681.23	-38.22
826	2	0.35	0.21	-2.30	-0.05	1.45	-3.44	-12.07	2.76	-700.44	-55.62
826	3	0.35	0.79	-3.02	0.08	0.84	-6.86	-4.58	11.58	-645.12	-72.67
826	4	0.09	0.79	-1.79	0.27	0.82	-5.87	7.04	5.66	-650.51	-55.28
827	1	0.09	0.21	2.63	0.75	1.47	-0.69	2.26	23.47	-651.67	87.14
827	2	0.33	0.21	2.57	0.53	0.85	-1.07	-6.77	17.41	-692.28	65.43
827	3	0.33	0.79	3.63	0.54	0.61	0.22	-6.29	23.16	-651.61	82.67
827	4	0.09	0.79	3.66	0.50	1.06	-0.02	2.45	16.07	-675.88	102.72
828	1	0.23	0.21	-2.93	-0.58	1.08	-0.82	-0.04	-2.47	-513.78	-166.60
828	2	0.86	0.21	-3.55	-0.34	0.70	0.78	-8.65	-11.54	-530.58	-72.21
828	3	0.86	0.79	-3.28	-1.13	0.41	-0.29	-0.11	-31.23	-546.56	-4.55
828	4	0.23	0.79	-3.59	-0.70	1.16	-0.57	1.32	-28.17	-555.46	-86.56
829	1	0.30	0.17	-2.85	0.53	0.16	0.95	1.17	-8.16	-679.65	-5.34
829	2	1.10	0.05	-8.80	2.06	0.93	-8.31	14.88	-28.30	-667.33	-24.07
829	3	1.10	0.63	-3.33	1.23	1.86	-0.09	-7.60	-7.14	-729.62	11.11
829	4	0.30	0.75	-3.73	-0.40	1.25	1.84	2.42	1.50	-699.55	15.17
830	1	0.18	0.21	-24.50	-4.54	0.01	2.81	-1.62	-125.73	-519.51	97.33
830	2	0.67	0.21	-24.14	-3.61	0.04	1.72	0.79	-147.88	-476.07	74.10
830	3	0.67	0.79	-23.60	-4.11	1.25	2.24	0.33	-213.31	-487.01	54.09
830	4	0.18	0.79	-24.13	-5.29	0.57	4.36	-1.19	-210.99	-468.64	91.31
831	1	0.21	0.21	-24.98	-4.43	-0.49	-1.46	-4.59	7.39	-787.97	25.99
831	2	0.78	0.21	-24.85	-4.52	-0.31	1.19	-5.08	-64.54	-836.26	102.49
831	3	0.78	0.79	-24.58	-8.17	0.33	2.61	-5.02	-236.97	-788.23	131.49
831	4	0.21	0.79	-27.25	-8.83	0.11	6.32	-11.19	-265.02	-933.61	183.59
832	1	0.21	0.34	0.54	5.08	-0.78	-0.46	13.63	-301.62	19.70	-93.70
832	2	0.79	0.34	1.57	4.38	-1.10	-0.17	15.24	-358.43	0.46	-95.58
832	3	0.79	1.28	5.94	21.70	-0.77	30.22	20.77	-426.36	9.74	-28.95
832	4	0.21	1.28	1.16	19.69	-0.53	-8.84	12.13	-458.75	9.30	-56.03
833	1	0.21	0.29	-3.28	-15.79	-0.28	0.67	14.11	-181.61	-8.64	-46.12
833	2	0.79	0.29	-2.96	-15.97	-0.20	-0.53	13.20	-72.96	51.18	-286.29
833	3	0.79	1.09	-0.60	-4.68	-0.24	-4.07	16.30	-394.66	1.27	-60.53
833	4	0.21	1.09	-0.71	-4.78	-0.30	6.10	15.49	-379.46	29.66	-117.89
834	1	0.21	0.32	-5.55	-26.61	0.11	0.39	4.77	-400.32	47.03	34.48
834	2	0.79	0.32	-5.43	-26.70	0.12	-0.59	4.87	-431.91	16.52	-21.82
834	3	0.79	1.19	-4.25	-21.90	0.06	1.21	6.52	-93.85	56.23	200.59
834	4	0.21	1.19	-4.61	-21.83	-0.07	-0.35	5.86	-197.99	-2.58	14.46
835	1	0.21	0.28	-5.30	-25.37	0.30	-0.04	-3.36	-395.88	39.12	10.37
835	2	0.79	0.28	-5.24	-25.42	0.28	0.04	-3.48	-390.78	31.44	-6.47
835	3	0.79	1.06	-5.66	-27.58	0.25	-0.35	-2.04	-382.15	28.98	24.23
835	4	0.21	1.06	-5.70	-27.50	0.22	0.55	-2.04	-331.81	40.87	6.24
836	1	0.30	0.21	-3.48	-0.95	1.73	-3.21	4.14	-1.26	-657.21	9.94
836	2	1.10	0.21	-1.63	-1.19	1.19	9.72	-6.83	-8.95	-730.94	12.31
836	3	1.10	0.79	-0.92	-2.14	1.58	-0.36	-4.20	-3.60	-717.20	9.37
836	4	0.30	0.79	-2.66	-1.49	1.10	0.42	3.97	-6.73	-676.27	1.41
837	1	0.23	0.21	-3.71	-0.42	0.92	0.95	1.95	-9.49	-613.38	-46.64
837	2	0.86	0.21	-2.93	-0.44	0.38	1.26	-3.59	-19.03	-639.67	-29.62
837	3	0.86	0.79	-2.97	-0.88	0.08	0.19	-4.04	-2.21	-668.54	-19.18
837	4	0.23	0.79	-3.62	-0.39	0.34	0.00	0.07	4.89	-651.10	-46.62
838	1	0.09	0.21	3.96	0.05	0.65	-1.29	0.24	5.83	-600.85	92.50
838	2	0.33	0.21	3.89	-0.07	0.54	-1.96	-4.82	2.96	-625.91	85.60
838	3	0.33	0.79	4.06	-0.40	0.10	-2.84	-0.58	8.13	-622.52	73.98
838	4	0.09	0.79	4.15	-0.22	0.14	-0.46	-0.12	4.35	-632.46	60.98
839	1	0.09	0.21	-1.61	1.08	0.63	-5.52	7.44	3.44	-624.11	-65.11
839	2	0.35	0.21	-3.24	0.77	0.66	-6.29	-2.88	7.65	-630.64	-74.15
839	3	0.35	0.79	-1.31	1.88	0.14	-7.58	1.06	9.04	-616.70	-79.70
839	4	0.09	0.79	-1.33	2.34	0.12	-9.77	2.76	0.69	-613.80	-79.78
840	1	0.09	0.21	0.58	-1.58	0.55	-7.89	1.56	-9.68	-625.11	57.29
840	2	0.33	0.21	-0.66	-1.97	0.49	-5.71	-6.84	-15.68	-633.97	99.37
840	3	0.33	0.79	-1.21	-3.29	0.10	-6.93	-3.01	-19.58	-614.68	75.28
840	4	0.09	0.79	0.18	-3.17	0.14	-6.57	-1.93	-4.08	-611.48	78.34
841	1	0.09	0.21	-0.11	1.68	0.29	4.43	4.39	-21.53	-649.78	-39.40
841	2	0.32	0.21	0.82	1.86	0.23	2.75	-0.34	-14.06	-638.88	-41.98
841	3	0.32	0.79	1.97	3.21	-0.08	3.12	3.50	-41.79	-626.25	-71.38
841	4	0.09	0.79	0.73	3.06	-0.20	3.86	3.01	-56.58	-650.84	-68.05
842	1	0.13	0.21	-3.69	1.39	-0.40	6.21	3.92	-55.39	-656.27	-54.45
842	2	0.47	0.21	-1.38	1.64	0.01	5.98	2.84	-48.91	-657.34	-37.61
842	3	0.47	0.79	-0.41	2.95	-0.29	6.32	2.70	-49.33	-665.92	-73.64
842	4	0.13	0.79	-2.61	2.59	-0.54	5.07	2.69	-92.63	-699.39	-85.17
843	1	0.18	0.21	-23.17	-5.58	1.08	4.01	1.51	-269.15	-482.21	67.33
843	2	0.67	0.21	-22.16	-4.39	2.30	2.84	4.83	-221.09	-420.69	62.64
843	3	0.67	0.79	-19.18	-4.35	3.30	3.16	4.36	-200.45	-488.52	19.37
843	4	0.18	0.79	-21.38	-5.47	1.70	6.91	1.05	-299.65	-497.34	-50.69
844	1	0.21	0.21	-29.15	-13.42	0.71	16.67	-1.58	-432.88	-980.84	-2.55
844	2	0.78	0.21	-24.71	-10.44	1.48	7.86	-5.30	-347.17	-738.33	81.11
844	3	0.78	0.79	-23.26	-10.26	3.03	7.44	0.97	-349.57	-715.73	-52.95
844	4	0.21	0.79	-28.65	-12.30	1.78	14.59	15.76	-480.03	-965.52	68.39
845	1	0.21	0.34	2.50	4.27	-0.47	0.26	16.92	-357.24	-10.62	-59.29
845	2	0.79	0.34	2.64	4.16	0.15	-0.38	14.77	-404.04	-14.04	-72.04
845	3	0.79	1.28	6.50	22.27	-0.05	13.89	24.48	-411.76	2.04	-97.83
845	4	0.21	1.28	7.66	22.51	-0.19	-17.30	27.81	-407.42	3.73	-69.03
846	1	0.21	0.29	-2.79	-16.14	-0.08	-0.36	13.05	-564.27	-23.04	-232.18
846	2	0.79	0.29	-2.77	-16.16	0.27	-0.66	14.25	-557.68	42.34	-83.07
846	3	0.79	1.09	0.28	-4.80	0.26	-5.65	16.36	-353.75	-9.57	-107.20
846	4	0.21	1.09	-0.17	-4.74	-0.15	7.21	14.21	-329.29	11.60	-52.61
847	1	0.21	0.32	-5.37	-26.74	0.19	0.29	4.80	-335.20	26.41	-20.77
847	2	0.79	0.32	-5.36	-26.79	0.26	-0.64	4.68	-367.70	-2.70	38.08
847	3	0.79	1.19	-4.32	-22.04	0.25	0.96	6.26	-554.62	42.07	22.99
847	4	0.21	1.19	-4.22	-21.96	0.14	-0.65	6.75	-658.44	-19.96	201.36
848	1	0.21	0.28	-5.20	-25.45	0.28	-0.07	-3.45	-394.40	14.78	-6.31
848	2	0.79	0.28	-5.18	-25.48	0.30	0.04	-3.43	-389.69	7.34	10.44
848	3	0.79	1.06	-5.57	-27.64	0.29	-0.52	-1.94	-445.34	4.97	7.76
848	4	0.21	1.06	-5.61	-27.62	0.27	0.62	-2.08	-393.60	16.07	25.18
849	1	0.30	0.21	-2.01	-1.77	0.63	1.79	-0.02	-4.99	-691.95	2.63
849	2	1.10	0.21	-0.41	-2.39	0.56	1.10	-2.12	1.41	-709.61	6.39
849	3	1.10	0.79	-0.45	-2.62	0.19	0.58	-0.29	0.44	-702.06	4.87
849	4	0.30	0.79	-1.69	-2.03	0.86	0.61	0.25	-1.49	-702.38	4.33
850	1	0.23	0.21	-3.45	-0.78	-0.35	0.20	-0.30	7.29	-668.34	-43.38
850	2	0.86	0.21	-2.91	-1.38	-0.04	-0.80	0.95	1.71	-680.49	-12.06
850	3	0.86	0.79	-2.36	-1.71	-0.42	0.12	0.42	0.08	-701.68	-9.82
850	4	0.23	0.79	-2.69	-1.32	-0.99	0.16	-0.16	3.42	-697.75	-35.39
851	1	0.09	0.21	4.01	0.08	-0.71	-1.03	0.65	11.88	-660.37	57.40
851	2	0.33	0.21	3.93	-0.15	-0.42	-2.40	5.00	16.38	-644.87	72.99
851	3	0.33	0.79	2.98	0.77	-1.01	-0.84	10.30	7.02	-686.43	73.46
851	4	0.09	0.79	2.99	0.93	-1.65	-1.48	-1.52	4.51	-695.52	54.79
852	1	0.09	0.21	-1.49	2.58	-0.54	-9.99	-5.92	2.22	-614.66	-96.27
852	2	0.35	0.21	-3.22	2.18	-0.55	-8.30	3.52	7.01	-636.37	-83.40
852	3	0.35	0.79	-2.61	0.47	-1.67	-4.97	7.37	3.69	-681.01	-89.90
852	4	0.09	0.79	-1.89	0.91	-1.61	-5.81	-16.83	0.92	-664.58	-117.91
853	1	0.09	0.21	-0.07	-4.26	-0.42	-9.47	-4.63	-19.75	-610.93	102.29
853	2	0.33	0.21	-1.99	-4.83	-0.39	-12.66	0.83	-38.36	-615.27	101.66
853	3	0.33	0.79	0.04	-2.62	-1.35	-8.60	22.18	-25.15	-627.36	170.39
853	4	0.09	0.79	1.02	-2.39	-1.42	-4.78	-3.82	-13.56	-651.52	137.75
854	1	0.09	0.21	1.08	3.89	-0.41	4.54	-1.19	-65.18	-645.93	-105.36

854	2	0.32	0.21	2.30	4.31	-0.24	7.31	3.65	-43.07	-618.94	-102.37
854	3	0.32	0.79	0.19	2.82	-0.47	5.33	-1.81	-75.03	-624.01	-175.90
854	4	0.09	0.79	-0.49	2.50	-0.46	1.15	-9.54	-108.40	-636.46	-157.36
855	1	0.13	0.21	-2.02	2.99	-0.54	4.59	0.06	-124.49	-733.36	-116.77
855	2	0.47	0.21	-0.27	3.54	-0.32	7.00	0.60	-95.18	-681.74	-107.74
855	3	0.47	0.79	-1.34	2.10	0.04	4.93	-4.74	-132.46	-678.55	-134.30
855	4	0.13	0.79	-1.90	1.42	0.04	2.12	-4.91	-88.90	-752.81	-176.57
856	1	0.18	0.21	-19.62	-4.75	1.75	4.99	2.37	-252.69	-449.87	-102.26
856	2	0.67	0.21	-16.57	-4.75	3.39	6.85	5.51	-166.18	-500.66	-25.96
856	3	0.67	0.79	-13.59	-5.00	1.62	6.90	3.85	-157.39	-580.41	-102.34
856	4	0.18	0.79	-18.11	-3.86	1.02	4.26	3.56	-178.19	-519.34	-146.25
857	1	0.21	0.21	-26.92	-8.10	2.56	9.43	17.62	-432.45	-827.01	-80.09
857	2	0.78	0.21	-22.03	-7.48	3.29	6.41	3.09	-341.25	-731.75	-128.88
857	3	0.78	0.79	-21.18	-2.66	2.27	5.27	2.14	-182.09	-767.49	-183.53
857	4	0.21	0.79	-24.18	-2.42	1.74	2.05	17.10	-165.54	-655.37	-166.60
858	1	0.21	0.34	2.09	4.29	0.89	-0.96	18.19	-364.84	10.05	-57.30
858	2	0.79	0.34	0.95	5.01	1.26	-0.16	16.68	-369.43	18.62	-75.11
858	3	0.79	1.28	2.68	19.45	0.69	-8.61	14.54	-313.69	10.09	-111.70
858	4	0.21	1.28	7.92	21.96	0.52	-14.24	22.48	-375.82	-13.08	-119.97
859	1	0.21	0.29	-3.02	-16.17	0.45	0.05	12.64	-497.37	58.69	-35.26
859	2	0.79	0.29	-3.34	-16.14	0.51	-0.51	13.65	-456.64	45.16	-48.64
859	3	0.79	1.09	-0.94	-5.27	0.51	-2.71	13.33	-424.86	25.59	-79.21
859	4	0.21	1.09	-0.80	-5.10	0.34	1.57	15.20	-422.04	-17.42	-117.13
860	1	0.21	0.32	-5.39	-26.79	0.31	0.51	4.76	-441.14	-13.89	54.26
860	2	0.79	0.32	-5.46	-26.78	0.34	-0.38	4.70	-441.08	21.91	18.45
860	3	0.79	1.19	-4.56	-22.00	0.36	-0.29	6.24	-461.13	43.86	-9.28
860	4	0.21	1.19	-4.24	-22.00	0.34	-0.97	6.78	-502.91	57.96	-21.23
861	1	0.21	0.28	-5.18	-25.50	0.31	-0.06	-3.56	-408.66	4.53	9.25
861	2	0.79	0.28	-5.20	-25.51	0.32	0.03	-3.42	-406.33	7.99	1.61
861	3	0.79	1.06	-5.61	-27.67	0.30	-0.56	-2.11	-405.98	7.65	11.48
861	4	0.21	1.06	-5.62	-27.66	0.29	0.34	-2.07	-385.39	-17.53	-7.38
862	1	0.30	0.21	-1.52	-2.06	-0.34	0.26	0.20	-0.07	-709.66	3.34
862	2	1.10	0.21	-0.40	-2.57	-0.25	0.57	0.64	-0.21	-696.57	5.16
862	3	1.10	0.79	-0.32	-2.25	-0.58	0.74	2.52	-1.99	-690.51	5.84
862	4	0.30	0.79	-1.42	-1.80	-0.73	1.56	-0.56	-0.43	-719.57	-1.31
863	1	0.23	0.21	-1.90	-1.76	-1.17	-1.16	-0.08	-5.44	-720.74	-34.49
863	2	0.86	0.21	-1.94	-1.79	-0.49	0.58	1.15	-4.18	-713.72	-9.69
863	3	0.86	0.79	-1.78	-1.74	-0.50	-1.63	0.99	-6.51	-732.53	-11.52
863	4	0.23	0.79	-0.82	-1.99	-0.91	-0.62	0.49	-15.43	-748.07	-40.94
864	1	0.09	0.21	1.54	1.74	-1.88	0.76	-1.82	-5.25	-722.92	53.37
864	2	0.33	0.21	1.49	1.83	-1.18	-0.67	11.31	-6.68	-728.74	71.76
864	3	0.33	0.79	-0.17	2.53	-0.81	0.90	7.56	-21.18	-773.07	68.30
864	4	0.09	0.79	0.18	2.44	-1.23	-0.69	-1.82	-17.64	-756.81	52.53
865	1	0.09	0.21	-2.17	-2.09	-1.98	2.22	-22.41	-3.32	-719.55	-120.98
865	2	0.35	0.21	-1.77	-1.80	-1.99	3.30	8.91	-3.64	-725.65	-90.46
865	3	0.35	0.79	-0.49	-4.33	-1.28	8.87	7.18	-12.26	-778.26	-81.56
865	4	0.09	0.79	-2.56	-4.79	-1.28	11.75	-11.95	-3.83	-786.47	-99.66
866	1	0.09	0.21	2.84	1.70	-1.79	2.46	-4.29	5.88	-712.37	148.44
866	2	0.33	0.21	3.13	1.76	-1.67	3.17	23.44	2.78	-701.74	178.30
866	3	0.33	0.79	6.99	6.55	-1.15	15.14	17.77	43.45	-761.56	142.93
866	4	0.09	0.79	4.20	5.96	-1.23	11.06	-4.97	15.80	-781.78	118.10
867	1	0.09	0.21	-3.48	-1.16	-0.44	0.28	-17.08	24.81	-624.21	-273.14
867	2	0.32	0.21	-3.41	-1.23	-0.55	-1.07	-4.19	31.77	-677.69	-216.52
867	3	0.32	0.79	-7.61	-5.34	-0.45	-5.62	-0.90	67.32	-746.35	-152.84
867	4	0.09	0.79	-6.69	-4.96	-0.45	-2.61	-6.44	107.60	-708.23	-134.99
868	1	0.13	0.21	-2.82	-1.19	0.60	-1.50	-7.66	-215.90	-700.50	-141.14
868	2	0.47	0.21	-3.16	-1.07	0.31	-0.89	-8.33	-225.10	-638.03	-214.36
868	3	0.47	0.79	-5.84	-4.41	0.15	-5.80	-4.57	-129.51	-684.71	-90.36
868	4	0.13	0.79	-4.41	-3.79	0.75	-3.95	-5.89	-280.76	-659.47	-6(
869	1	0.18	0.21	-17.93	-3.24	0.08	4.10	-1.31	-129.44	-639.75	-131.78
869	2	0.67	0.21	-13.53	-4.45	-0.64	6.68	-1.33	-142.99	-611.61	-121.13
869	3	0.67	0.79	-16.33	-3.13	-2.62	5.65	-3.81	-116.69	-596.73	-99.63
869	4	0.18	0.79	-18.85	-2.60	-0.96	2.61	-0.48	-80.48	-531.93	-85.57
870	1	0.21	0.21	-22.40	1.55	0.58	-4.12	6.96	-27.17	-605.47	-105.23
870	2	0.78	0.21	-20.38	0.17	0.69	3.22	5.00	-79.69	-787.22	-148.26
870	3	0.78	0.79	-20.73	1.62	-1.03	2.90	0.65	-34.49	-784.26	-76.26
870	4	0.21	0.79	-22.53	2.43	-0.35	-1.12	-4.32	14.11	-592.96	-63.22
871	1	0.21	0.34	-0.17	4.95	0.73	-1.57	15.77	-376.36	24.41	-79.55
871	2	0.79	0.34	-0.67	4.55	0.24	-1.59	14.12	-366.26	33.23	-71.47
871	3	0.79	1.28	1.47	18.26	0.00	0.94	13.09	-278.24	14.02	-74.39
871	4	0.21	1.28	1.72	18.56	0.12	-2.61	9.96	-283.66	12.01	-96.04
872	1	0.21	0.29	-3.57	-16.06	0.47	0.36	12.59	-439.72	38.23	-46.14
872	2	0.79	0.29	-3.81	-16.11	0.27	-0.43	12.67	-420.19	40.21	-41.00
872	3	0.79	1.09	-2.04	-5.10	0.31	1.13	14.70	-392.77	37.84	-59.39
872	4	0.21	1.09	-1.64	-5.28	0.59	-1.27	14.59	-404.05	42.06	-61.53
873	1	0.21	0.32	-5.52	-26.77	0.31	0.36	4.76	-429.37	33.36	0.34
873	2	0.79	0.32	-5.57	-26.77	0.27	-0.26	4.83	-423.27	28.71	-5.05
873	3	0.79	1.19	-4.73	-21.92	0.28	-1.03	5.94	-426.60	37.62	-13.40
873	4	0.21	1.19	-4.62	-21.95	0.34	-0.06	6.20	-449.64	26.27	-14.14
874	1	0.21	0.28	-5.22	-25.51	0.32	-0.05	-3.53	-408.22	12.33	-2.85
874	2	0.79	0.28	-5.24	-25.53	0.31	-0.02	-3.50	-411.54	16.14	1.01
874	3	0.79	1.06	-5.71	-27.71	0.28	-0.36	-2.17	-413.36	20.98	0.43
874	4	0.21	1.06	-5.68	-27.69	0.29	0.14	-2.10	-416.78	9.86	13.37
875	1	0.30	0.21	-1.89	-1.51	-0.98	0.05	3.01	-1.90	-720.42	-2.98
875	2	1.10	0.21	-0.77	-1.93	-1.48	-0.58	4.00	-0.84	-686.65	5.47
875	3	1.10	0.79	-1.46	-0.92	-1.03	9.00	6.30	-0.60	-679.64	-0.50
875	4	0.30	0.79	-2.70	-0.86	-1.30	-3.74	-3.87	-9.72	-745.97	7.60
876	1	0.23	0.21	-0.44	-1.81	-0.51	-0.87	-0.45	-14.79	-762.22	-44.77
876	2	0.86	0.21	-1.57	-1.34	-0.17	-0.71	3.82	-6.55	-746.14	-19.43
876	3	0.86	0.79	-1.49	-0.58	0.10	0.66	4.18	-0.61	-770.25	-34.48
876	4	0.23	0.79	-0.75	-1.13	0.06	-1.09	-0.69	-2.49	-795.20	-42.30
877	1	0.09	0.21	-0.24	2.30	-0.35	-1.01	-2.28	-16.43	-783.05	56.38
877	2	0.33	0.21	-0.69	2.50	-0.17	1.04	0.42	-19.81	-795.17	68.68
877	3	0.33	0.79	-0.60	1.58	0.39	-1.46	-5.13	-12.97	-788.62	76.70
877	4	0.09	0.79	-0.08	1.46	0.84	-1.02	-1.85	-14.95	-810.03	85.04
878	1	0.09	0.21	-2.48	-5.06	-0.24	13.05	-0.70	-7.09	-804.76	-75.35
878	2	0.35	0.21	0.03	-4.40	-0.25	10.46	3.73	-18.16	-800.23	-71.64
878	3	0.35	0.79	-0.01	-2.38	0.20	9.67	0.14	-16.90	-781.13	-63.60
878	4	0.09	0.79	-1.92	-2.84	0.68	7.83	11.65	-10.96	-781.76	-47.09
879	1	0.09	0.21	4.39	6.32	-0.23	13.66	-4.83	14.00	-801.16	72.37
879	2	0.33	0.21	7.74	7.05	-0.28	17.45	-3.35	43.86	-788.39	71.86
879	3	0.33	0.79	5.98	3.82	0.52	11.54	-10.67	12.63	-773.82	17.20
879	4	0.09	0.79	3.65	3.36	0.60	11.76	-2.97	3.16	-779.03	32.67
880	1	0.09	0.21	-7.84	-5.61	-0.54	-1.26	-2.17	114.34	-735.87	-132.33
880	2	0.32	0.21	-8.70	-5.98	-0.34	-4.86	4.88	66.42	-772.89	-79.71
880	3	0.32	0.79	-7.06	-3.72	-0.06	1.36	6.29	54.05	-760.53	3.67
880	4	0.09	0.79	-7.37	-3.74	-0.34	2.15	10.00	69.25	-742.94	49.17
881	1	0.13	0.21	-5.79	-4.36	0.30	-2.31	-1.94	-257.78	-747.11	112.04
881	2	0.47	0.21	-7.12	-5.11	-0.32	-6.67	-0.71	-95.27	-772.42	-58.56
881	3	0.47	0.79	-7.11	-3.76	-0.53	-1.26	3.67	-159.62	-782.93	118.17
881	4	0.13	0.79	-7.17	-3.61	-0.20	-0.09	0.96	-161.66	-715.24	111.84
882	1	0.18	0.21	-20.36	-2.74	-1.22	3.59	-1.17	-50.90	-534.64	-47.62
882	2	0.67	0.21	-18.85	-2.38	-2.88	1.54	-4.08	-89.17	-569.33	-70.75
882	3	0.67	0.79	-21.88	-2.58	-2.42	1.16	-5.45	-63.17	-524.51	-32.49
882	4	0.18	0.79	-22.22	-3.10	-1.20	1.78	-2.31	-32.54	-518.09	-5.69
883	1	0.21	0.21	-23.52	1.22	-1.03	2.79	-4.99	7.84	-600.84	-49.76

883	2	0.78	0.21	-21.84	1.53	-1.60	2.68	-0.36	-26.24	-761.29	-35.01
883	3	0.78	0.79	-22.94	0.75	-1.76	2.08	1.09	-6.58	-761.45	-6.00
883	4	0.21	0.79	-24.02	0.44	-1.25	1.79	-5.76	4.55	-630.11	-21.11
884	1	0.21	0.34	-0.57	4.43	-0.07	-1.22	14.85	-357.51	34.60	-66.79
884	2	0.79	0.34	-0.38	4.31	-0.22	-0.20	14.76	-355.41	28.35	-61.01
884	3	0.79	1.28	2.65	18.88	-0.01	1.17	16.09	-301.14	14.78	-50.32
884	4	0.21	1.28	2.03	18.43	-0.06	-1.30	16.43	-289.36	13.15	-52.95
885	1	0.21	0.29	-3.87	-16.18	0.12	-0.02	12.69	-408.97	38.84	-40.97
885	2	0.79	0.29	-3.81	-16.19	-0.06	-0.13	12.57	-396.20	33.73	-41.57
885	3	0.79	1.09	-1.98	-5.13	-0.16	-0.86	14.57	-378.16	31.86	-55.67
885	4	0.21	1.09	-2.07	-5.09	0.11	-1.36	13.45	-387.90	34.62	-57.86
886	1	0.21	0.32	-5.58	-26.79	0.22	0.14	4.72	-415.59	27.77	-8.59
886	2	0.79	0.32	-5.56	-26.86	0.15	-0.34	4.73	-407.34	28.03	-14.03
886	3	0.79	1.19	-4.78	-22.00	0.01	-0.50	6.10	-404.05	32.48	-28.70
886	4	0.21	1.19	-4.82	-21.93	0.17	0.79	6.19	-416.45	36.60	-26.73
887	1	0.21	0.28	-5.24	-25.55	0.30	-0.06	-3.52	-410.87	18.50	2.49
887	2	0.79	0.28	-5.22	-25.60	0.29	0.01	-3.57	-408.79	21.83	-0.67
887	3	0.79	1.06	-5.69	-27.78	0.22	-0.41	-2.14	-407.43	24.68	-6.85
887	4	0.21	1.06	-5.71	-27.73	0.26	0.26	-2.17	-412.51	24.40	-4.72
888	1	0.30	0.25	-3.10	-0.08	-0.76	0.48	-2.98	-34.39	-698.29	14.39
888	2	1.10	0.37	-3.19	1.28	-1.67	-0.16	6.37	-32.68	-693.34	-24.59
888	3	1.10	0.95	-8.43	1.97	-0.90	-7.65	-15.91	-45.23	-620.99	1.56
888	4	0.30	0.83	-2.51	0.72	0.25	0.29	-1.93	-29.18	-713.16	0.44
889	1	0.23	0.21	-1.18	-0.39	0.28	-2.39	-1.09	18.53	-854.75	-77.82
889	2	0.86	0.21	-2.05	-0.80	0.26	-1.30	-0.12	15.02	-842.47	4.76
889	3	0.86	0.79	-2.93	-0.09	0.02	0.68	6.02	-13.56	-878.68	82.00
889	4	0.23	0.79	-1.96	-0.20	0.51	-2.02	-2.25	-11.11	-894.94	-148.43
890	1	0.09	0.21	-0.39	0.39	1.07	-1.53	-3.64	-23.17	-737.97	96.78
890	2	0.33	0.21	-0.10	0.21	0.50	-1.72	-6.96	-28.16	-754.28	73.23
890	3	0.33	0.79	1.02	0.00	0.59	-2.16	-3.38	-22.28	-713.33	53.89
890	4	0.09	0.79	1.22	0.15	1.04	-0.96	3.79	-31.77	-755.05	71.16
891	1	0.09	0.21	-1.58	-0.41	0.87	4.54	9.62	-12.86	-745.79	-37.60
891	2	0.35	0.21	-0.29	-0.28	0.91	5.78	-2.52	-17.85	-757.44	-60.73
891	3	0.35	0.79	-1.06	0.49	0.95	2.57	-8.89	-8.77	-700.82	-42.78
891	4	0.09	0.79	-1.42	0.31	0.94	1.51	7.08	-10.28	-704.26	-30.27
892	1	0.09	0.21	2.53	0.50	0.78	7.47	1.89	-8.40	-735.78	22.52
892	2	0.33	0.21	-4.14	0.79	0.74	4.61	-13.97	-5.38	-720.89	-3.09
892	3	0.33	0.79	2.42	-0.43	0.77	1.38	-3.41	-12.51	-702.46	18.44
892	4	0.09	0.79	1.80	-0.48	0.80	2.40	7.53	-8.85	-704.22	23.53
893	1	0.09	0.21	-5.76	-1.42	0.05	2.84	5.46	-34.19	-727.22	3.61
893	2	0.32	0.21	-4.90	-1.03	0.20	5.96	2.18	-32.01	-720.22	11.43
893	3	0.32	0.79	-3.09	-0.04	0.41	6.37	-4.19	-3.09	-692.50	-9.27
893	4	0.09	0.79	-4.20	-0.38	0.53	5.43	3.45	-7.31	-682.40	7.23
894	1	0.13	0.21	-7.29	-2.32	-0.19	3.42	2.56	-21.77	-654.05	73.36
894	2	0.47	0.21	-6.38	-1.85	-0.27	4.07	3.07	-50.41	-717.27	40.29
894	3	0.47	0.79	-5.22	-0.79	0.16	5.28	1.05	-21.55	-669.98	16.58
894	4	0.13	0.79	-6.86	-1.26	-0.07	5.40	2.23	-44.24	-628.84	27.90
895	1	0.18	0.21	-23.34	-3.38	-1.07	1.77	-0.64	-34.72	-504.40	17.57
895	2	0.67	0.21	-23.36	-2.75	-1.76	0.69	-1.72	-63.77	-498.25	-5.28
895	3	0.67	0.79	-24.09	-3.10	-0.84	1.34	-2.89	-82.43	-465.45	39.26
895	4	0.18	0.79	-24.29	-3.91	-0.65	1.43	-1.67	-52.96	-492.62	46.78
896	1	0.21	0.21	-24.31	-0.25	-0.95	0.49	-5.99	14.65	-662.54	-10.00
896	2	0.78	0.21	-23.83	-0.11	-1.65	1.24	-1.42	-8.33	-768.74	18.46
896	3	0.78	0.79	-25.11	-2.00	-1.47	1.82	-1.11	-52.86	-782.61	60.21
896	4	0.21	0.79	-24.66	-2.16	-0.95	-0.64	-8.01	26.07	-712.16	3.63
897	1	0.21	0.34	-0.02	4.48	-0.35	1.72	14.78	-357.41	23.48	-58.19
897	2	0.79	0.34	-0.42	4.94	-0.42	1.52	18.89	-358.71	16.91	-56.87
897	3	0.79	1.28	3.79	19.60	0.00	5.88	15.14	-336.61	5.71	-30.29
897	4	0.21	1.28	2.34	19.05	0.01	-0.33	15.13	-311.16	13.51	-41.29
898	1	0.21	0.29	-3.72	-16.24	-0.16	0.53	13.05	-388.65	38.70	-41.15
898	2	0.79	0.29	-3.46	-16.31	-0.31	0.13	12.63	-379.12	22.55	-39.35
898	3	0.79	1.09	-1.67	-5.44	-0.51	-1.63	12.24	-363.96	18.21	-49.77
898	4	0.21	1.09	-1.68	-5.19	-0.37	0.13	14.65	-371.52	26.93	-54.07
899	1	0.21	0.32	-5.52	-26.93	0.10	0.31	4.64	-401.39	27.21	-16.27
899	2	0.79	0.32	-5.43	-27.04	0.06	-0.42	4.70	-393.67	25.14	-17.25
899	3	0.79	1.19	-4.48	-22.22	-0.16	0.42	6.75	-386.31	34.20	-38.00
899	4	0.21	1.19	-4.74	-22.09	-0.07	0.12	6.02	-395.79	39.06	-29.80
900	1	0.21	0.28	-5.19	-25.64	0.29	-0.08	-3.51	-405.26	23.01	-1.97
900	2	0.79	0.28	-5.15	-25.71	0.30	0.02	-3.58	-400.81	23.29	-1.97
900	3	0.79	1.06	-5.61	-27.94	0.18	-0.57	-2.20	-396.53	24.13	-9.95
900	4	0.21	1.06	-5.64	-27.83	0.19	0.35	-2.12	-403.11	24.44	-8.19
901	1	0.36	0.08	-4.57	-0.13	-0.48	-16.05	-0.60	-107.40	58.49	-42.11
901	2	1.35	0.08	-19.64	0.74	3.42	-16.39	13.66	-100.63	-75.43	43.06
901	3	1.35	0.32	-19.50	0.74	-3.47	-12.58	-14.56	-164.06	-81.42	-44.68
901	4	0.36	0.32	-4.73	-0.15	0.08	-15.26	2.17	-157.01	58.62	40.51
902	1	0.32	0.08	12.98	0.30	-0.33	-11.90	0.19	-118.98	31.48	-30.25
902	2	1.19	0.08	4.01	-0.74	-0.83	-11.96	-5.19	-112.70	-51.08	40.46
902	3	1.19	0.32	4.17	-0.71	0.58	-7.24	3.11	-152.88	49.38	-42.14
902	4	0.32	0.32	12.80	0.27	-0.17	-9.34	1.39	-146.46	31.47	29.56
903	1	0.28	0.08	-17.67	0.14	0.12	-7.55	-0.22	-123.51	-22.04	-26.25
903	2	1.06	0.08	-22.20	-0.13	-0.31	-8.00	-0.84	-129.01	8.10	24.96
903	3	1.06	0.32	-22.06	-0.11	-0.19	-4.18	-2.57	-137.07	8.08	-23.32
903	4	0.28	0.32	-17.84	0.11	-0.52	-2.80	3.36	-142.60	-23.54	27.89
904	1	0.17	0.12	28.30	-0.99	-0.92	-6.31	1.47	-144.70	-22.79	7.65
904	2	0.62	0.12	23.40	0.22	-0.72	-7.79	0.08	-134.01	-31.78	14.48
904	3	0.53	0.45	24.86	0.14	0.62	-7.43	0.42	-154.18	-56.25	3.47
904	4	0.14	0.44	28.99	-0.65	0.15	-5.97	4.26	-160.28	-43.98	25.09
905	1	0.12	0.12	19.30	0.99	-0.64	-8.62	1.18	-117.82	-154.77	6.91
905	2	0.58	0.13	14.21	1.90	-0.52	-7.40	0.72	-73.37	-280.06	-6.14
905	3	0.37	0.50	16.57	1.73	1.05	-5.37	-1.74	-110.26	-208.69	-36.97
905	4	-0.02	0.47	21.08	0.81	0.86	-7.85	1.85	-139.85	-101.66	-13.77
906	1	0.08	0.14	11.15	2.14	-0.47	-7.39	2.21	-41.17	-376.21	-10.11
906	2	0.53	0.16	7.91	2.32	-0.22	-4.60	0.76	-9.14	-499.70	-2.07
906	3	0.19	0.59	10.23	3.03	0.70	-2.12	2.54	-48.91	-422.26	-47.84
906	4	-0.18	0.53	13.35	2.23	0.89	-5.22	0.28	-83.12	-293.99	-44.72
907	1	0.13	0.12	29.58	0.22	-0.29	-7.23	7.27	-166.88	-28.49	24.71
907	2	0.47	0.12	25.79	0.57	0.13	-11.06	3.53	-162.39	-32.67	5.40
907	3	0.39	0.45	28.48	0.88	2.25	-3.01	2.60	-141.27	-10.67	-9.24
907	4	0.12	0.44	32.54	0.64	0.26	-10.86	5.72	-167.97	-8.88	11.32
908	1	0.10	0.13	22.54	0.85	-1.26	-13.03	3.53	-152.16	-60.69	-9.08
908	2	0.43	0.14	18.23	1.07	-0.71	-13.39	0.19	-135.97	-131.77	-49.30
908	3	0.27	0.53	20.72	0.99	2.63	4.36	1.66	-114.61	-40.55	-46.21
908	4	0.00	0.48	25.47	0.70	1.38	0.72	3.91	-126.76	-12.03	-11.79
909	1	0.06	0.16	15.32	1.51	-1.39	-13.22	0.53	-149.08	-185.12	-81.84
909	2	0.29	0.18	11.96	1.86	-0.71	-11.59	-3.83	-126.97	-295.96	-124.03
909	3	0.14	0.67	14.14	1.29	2.47	4.42	2.28	-140.28	-118.62	-108.69
909	4	-0.12	0.59	18.01	0.77	1.75	4.55	2.49	-133.41	-45.29	-56.47
910	1	0.16	0.12	-30.88	1.62	-1.12	-3.16	-1.05	-158.71	-17.31	-35.97
910	2	0.61	0.12	-32.02	1.90	-1.36	-0.58	-0.99	-123.49	-88.97	-15.05
910	3	0.52	0.45	-32.78	1.77	-1.34	-1.13	-3.59	-176.40	-83.24	-43.47
910	4	0.14	0.44	-31.32	1.27	-0.45	-4.71	-3.01	-186.68	-39.75	-48.10
911	1	0.12	0.12	-31.44	1.47	-1.49	1.38	-0.34	-174.72	-206.59	-92.37
911	2	0.67	0.13	-29.38	-0.01	-1.41	1.55	-1.48	-109.76	-201.61	-25.28
911	3	0.36	0.50	-30.92	1.03	-3.52	-0.86	1.97	-133.18	-194.81	-77.61
911	4	-0.01	0.47	-32.34	1.74	-2.28	-1.52	-2.40	-154.34	-128.25	-61.21
912	1	0.08	0.14	-27.76	-0.83	-1.26	2.50	-0.63	-83.97	-271.92	-2.17

912	2	0.52	0.16	-25.97	-2.06	-1.22	0.86	2.73	-54.15	-356.20	-21.51
912	3	0.19	0.58	-27.02	-2.36	-3.78	-6.46	-3.33	-76.08	-332.22	-37.37
912	4	-0.18	0.53	-28.82	-0.03	-3.76	-5.09	-0.17	-114.57	-265.62	-65.40
913	1	0.13	0.12	-31.69	0.68	1.75	-3.24	-6.98	-183.29	-33.76	-30.44
913	2	0.46	0.12	-33.31	1.01	1.20	2.89	-7.61	-188.71	-57.60	-51.81
913	3	0.39	0.45	-35.86	-0.31	-1.21	-25.98	-9.03	-201.99	-17.85	-38.27
913	4	0.12	0.44	-34.45	-0.61	1.20	-18.08	-5.42	-184.47	-9.88	-10.42
914	1	0.10	0.13	-33.35	1.31	3.23	8.67	-6.18	-188.01	-78.22	-53.89
914	2	0.43	0.14	-32.45	2.27	2.29	13.24	-4.31	-194.95	-148.80	-101.19
914	3	0.27	0.53	-34.74	0.25	-2.57	-34.45	-11.83	-220.58	-65.65	-84.97
914	4	0.00	0.48	-35.90	-0.02	-0.28	-31.58	-10.32	-216.91	-29.84	-45.55
915	1	0.06	0.16	-30.98	2.04	3.71	19.56	-0.68	-183.29	-174.33	-109.56
915	2	0.39	0.18	-28.66	2.24	2.35	17.94	8.45	-152.93	-273.09	-126.91
915	3	0.14	0.66	-30.80	1.47	-3.30	-30.20	-16.70	-255.64	-150.52	-161.72
915	4	-0.11	0.59	-33.61	1.24	-1.27	-35.37	-13.11	-248.33	-81.98	-110.61
916	1	0.36	0.12	-3.02	-25.90	2.08	0.67	1.00	-395.88	-39.77	-20.75
916	2	0.90	0.10	-2.81	-24.09	3.33	3.65	-1.69	-436.59	-41.14	9.87
916	3	1.21	0.37	-2.14	-23.84	4.72	-0.68	0.56	-443.92	-63.63	51.68
916	4	0.76	0.46	-1.68	-24.35	3.09	-1.34	2.03	-384.84	-69.54	42.53
917	1	0.30	0.09	-2.57	-22.25	4.32	2.77	3.66	-483.78	-31.06	33.16
917	2	0.85	0.07	-2.91	-18.59	5.14	5.24	1.80	-549.15	-61.31	58.97
917	3	1.01	0.27	-3.30	-16.77	7.00	6.13	4.43	-597.51	-103.39	103.26
917	4	0.54	0.32	-1.58	-21.45	5.47	3.94	-1.37	-508.89	-75.53	90.99
918	1	0.25	0.07	-4.29	-14.66	4.81	4.99	5.79	-611.09	-106.03	91.42
918	2	0.80	0.06	-5.73	-10.46	1.89	-2.55	8.96	-648.11	-118.38	94.07
918	3	0.83	0.22	-7.05	-7.34	2.26	-1.30	9.28	-718.52	-108.14	95.85
918	4	0.35	0.24	-5.00	-11.26	6.12	4.01	7.75	-670.81	-115.94	113.12
919	1	0.27	0.16	-4.71	-23.76	12.53	14.56	-7.27	-392.64	-60.57	8.27
919	2	0.66	0.13	-5.44	-19.02	13.53	18.41	-0.69	-487.57	-62.24	9.56
919	3	0.89	0.47	-9.82	-11.59	12.11	-38.63	15.78	-553.10	-73.15	147.95
919	4	0.57	0.59	-7.59	-17.87	13.89	-27.69	19.49	-386.55	-94.79	143.35
920	1	0.24	0.10	-4.97	-17.63	12.59	15.55	7.39	-556.95	-74.89	63.10
920	2	0.65	0.08	-7.12	-10.28	10.47	4.89	6.61	-678.64	-89.58	65.01
920	3	0.78	0.30	-9.89	-3.22	6.71	-37.93	11.72	-849.53	-65.42	145.30
920	4	0.44	0.37	-8.47	-8.66	10.16	-39.74	15.99	-645.95	-94.55	197.51
921	1	0.20	0.07	-7.08	-7.60	7.06	2.22	12.16	-753.69	-100.46	112.47
921	2	0.62	0.06	-8.59	-4.13	1.85	-2.00	9.52	-797.46	-77.25	51.88
921	3	0.64	0.23	-9.19	-0.61	0.38	-7.58	4.47	-935.71	-26.42	19.27
921	4	0.29	0.25	-8.95	-3.14	4.78	-28.80	11.02	-902.93	-58.86	160.14
922	1	0.20	0.06	-6.04	-10.39	-1.97	1.34	8.96	-617.57	-102.56	67.49
922	2	0.75	0.07	-5.13	-14.44	-4.76	-5.06	6.43	-538.95	-94.89	24.54
922	3	0.65	0.24	-5.71	-11.03	-6.06	-4.23	7.59	-573.07	-79.27	-9.81
922	4	0.17	0.22	-7.32	-7.26	-2.30	0.29	9.81	-678.16	-85.77	43.44
923	1	0.15	0.07	-3.88	-18.32	-4.84	-5.22	3.09	-443.23	-129.25	-12.17
923	2	0.70	0.09	-3.40	-21.83	-3.47	-2.19	4.52	-353.78	-149.39	-61.91
923	3	0.46	0.32	-2.20	-21.06	-4.93	-3.60	-0.21	-374.56	-118.06	-89.59
923	4	-0.01	0.27	-4.05	-16.50	-6.79	-6.19	5.57	-470.04	-99.94	-40.03
924	1	0.10	0.10	-3.40	-23.47	-2.12	-3.20	-0.73	-429.98	-125.82	-92.07
924	2	0.64	0.12	-3.08	-25.08	-0.60	0.29	1.09	-408.48	-135.08	-55.82
924	3	0.24	0.46	-1.88	-23.75	-1.74	1.51	2.23	-345.59	-147.91	-77.40
924	4	-0.21	0.37	-2.60	-23.37	-3.79	1.12	1.46	-361.81	-117.19	-97.80
925	1	0.16	0.06	-8.83	-4.11	-1.84	0.90	9.48	-734.96	-75.28	58.18
925	2	0.58	0.07	-7.69	-7.44	-6.93	-2.68	11.93	-605.91	-61.25	-18.53
925	3	0.49	0.25	-9.51	-3.11	-4.76	27.20	10.55	-667.09	-31.18	-96.57
925	4	0.14	0.23	-9.39	-0.63	-0.37	5.87	4.72	-859.28	-29.77	21.97
926	1	0.12	0.08	-7.72	-10.08	-10.17	-4.23	7.02	-506.47	-74.21	-8.37
926	2	0.53	0.10	-5.30	-17.34	-11.99	-14.77	8.72	-405.20	-74.72	-57.37
926	3	0.33	0.37	-8.62	-8.45	-9.90	39.31	15.93	-401.06	-64.00	-118.49
926	4	-0.01	0.30	-10.42	-3.11	-6.62	36.61	11.47	-569.21	-37.22	-74.6
927	1	0.07	0.13	-5.29	-18.96	-12.71	-17.49	9.20	-375.96	-21.47	-42.7
927	2	0.46	0.16	-4.18	-23.88	-11.48	-13.68	-5.49	-333.58	-103.19	-49.59
927	3	0.16	0.59	-6.86	-17.73	-13.24	28.00	-8.90	-250.82	-78.18	-103.68
927	4	-0.16	0.47	-9.54	-11.42	-11.68	38.54	16.48	-246.01	-46.97	-98.38
928	1	0.29	0.16	-25.16	-1.98	-0.29	-1.61	1.33	-137.65	-389.57	42.89
928	2	0.74	0.14	-27.11	-0.77	-0.30	-2.95	-1.21	-128.68	-303.67	18.62
928	3	1.00	0.53	-28.32	0.05	2.27	5.51	-0.18	-202.76	-230.77	85.71
928	4	0.63	0.58	-26.39	-2.41	2.34	7.00	-2.90	-166.38	-307.09	62.32
929	1	0.25	0.13	-28.87	0.07	-0.22	-2.32	-1.36	-217.29	-254.21	-1.28
929	2	0.69	0.12	-31.21	1.52	-0.24	-2.04	-0.21	-250.96	-100.17	-10.78
929	3	0.83	0.47	-32.26	2.00	0.65	1.53	-2.05	-225.07	-124.54	33.86
929	4	0.45	0.50	-30.60	1.18	1.99	1.14	2.24	-239.83	-184.80	12.28
930	1	0.20	0.12	-32.08	1.98	-0.46	-0.16	-0.59	-217.19	-85.96	66.38
930	2	0.65	0.12	-31.35	1.82	-0.76	2.43	-0.81	-266.44	-74.59	6.11
930	3	0.68	0.44	-31.79	1.53	-1.29	4.50	-2.94	-251.38	-61.97	25.07
930	4	0.29	0.45	-32.99	2.05	-0.35	1.01	-3.21	-240.84	-68.76	41.70
931	1	0.22	0.18	-27.74	1.94	-3.50	-18.02	9.03	-206.55	-214.10	95.35
931	2	0.54	0.16	-30.15	1.92	-5.10	-20.65	-0.05	-228.19	-144.87	60.00
931	3	0.72	0.59	-32.79	1.55	0.29	38.45	-13.20	-232.49	-52.31	58.06
931	4	0.46	0.66	-29.97	1.68	2.49	32.17	-16.86	-208.68	-100.47	100.94
932	1	0.19	0.14	-31.93	2.45	-3.91	-14.56	-2.50	-244.01	-65.52	35.78
932	2	0.52	0.13	-33.06	1.45	-5.04	-10.59	-5.65	-228.35	-46.95	63.54
932	3	0.62	0.48	-35.52	0.26	-0.86	36.69	-10.58	-251.12	-9.07	42.32
932	4	0.35	0.53	-34.16	0.66	1.49	38.32	-12.10	-236.96	-29.73	69.44
933	1	0.16	0.12	-33.41	1.33	-3.12	-4.89	-7.10	-237.20	-45.49	40.57
933	2	0.50	0.12	-32.05	0.17	-3.70	1.35	-7.10	-229.82	-40.34	26.09
933	3	0.51	0.44	-34.82	-0.57	-2.33	24.13	-5.59	-224.88	-13.68	12.26
933	4	0.23	0.45	-35.89	-0.04	0.07	31.71	-9.43	-234.63	-33.25	43.09
934	1	0.17	0.12	-29.12	1.27	-0.95	5.75	-1.22	-261.97	-80.40	18.36
934	2	0.62	0.12	-24.53	0.24	-1.05	7.46	0.32	-243.81	-156.91	-17.82
934	3	0.53	0.45	-25.81	0.24	-2.20	7.90	-5.46	-227.39	-112.73	25.50
934	4	0.14	0.44	-29.75	0.91	-1.86	5.92	-4.20	-248.02	-58.31	13.65
935	1	0.12	0.12	-20.60	-0.41	-1.01	3.61	-0.27	-209.89	-218.11	-29.95
935	2	0.58	0.13	-15.56	-1.15	-0.86	7.65	1.27	-173.74	-344.87	-34.88
935	3	0.37	0.50	-17.66	-0.74	-2.36	6.78	2.83	-171.08	-278.84	-82.43
935	4	-0.02	0.47	-22.17	-0.22	-2.34	8.20	-1.45	-211.97	-165.38	-57.09
936	1	0.08	0.14	-12.41	-1.27	-0.71	7.63	0.15	-121.08	-428.70	-16.15
936	2	0.53	0.16	-8.96	-1.11	-0.45	6.57	3.46	-64.80	-545.73	-5.79
936	3	0.19	0.59	-10.90	-1.36	-1.62	3.79	0.16	-80.36	-484.82	-63.08
936	4	-0.18	0.53	-14.27	-0.91	-2.05	6.00	1.35	-135.11	-377.60	-81.18
937	1	0.13	0.12	-30.35	0.05	-1.53	5.62	-7.58	-238.65	-50.07	14.64
937	2	0.47	0.12	-26.72	-0.37	-1.73	10.27	-4.26	-227.42	-62.81	-19.26
937	3	0.39	0.45	-29.44	-0.97	-3.21	7.76	-2.71	-187.96	-19.71	-24.20
937	4	0.12	0.44	-33.31	-0.61	-1.32	16.65	-6.03	-203.92	-10.04	10.68
938	1	0.10	0.13	-23.69	-0.32	0.05	12.88	-4.06	-235.05	-99.13	-50.23
938	2	0.43	0.14	-19.31	-0.13	-0.10	14.66	-0.56	-207.78	-183.20	-104.98
938	3	0.27	0.53	-21.71	-0.84	-3.12	-2.06	-1.73	-192.03	-70.19	-82.60
938	4	0.00	0.48	-26.59	-0.25	-2.17	3.00	-4.32	-183.80	-22.41	-32.72
939	1	0.06	0.16	-16.43	-0.05	1.04	16.04	0.02	-207.22	-249.71	-149.55
939	2	0.39	0.18	-12.65	0.34	0.69	14.36	5.05	-171.88	-377.93	-183.08
939	3	0.14	0.67	-14.55	-0.06	-2.08	-3.21	-2.89	-247.02	-189.86	-188.57
939	4	-0.12	0.59	-18.82	-0.25	-1.85	-3.08	-3.03	-222.79	-94.74	-115.28
940	1	0.36	0.13	-0.98	-7.68	0.56	1.81	-6.52	-584.84	-43.92	14.80
940	2	0.90	0.10	-0.33	-6.26	0.81	3.45	-5.85	-620.22	-35.60	48.53
940	3	1.21	0.38	-0.11	-7.43	1.37	2.49	-5.72	-609.70	-47.56	94.05
940	4	0.77	0.47	-0.63	-8.60	1.06	1.61	-5.18	-550.92	-66.09	78.10
941	1	0.30	0.09	0.48	-5.25	0.99	3.30	-4.60	-662.02	-36.28	63.62

941	2	0.85	0.08	-1.41	-3.87	-1.06	-2.86	-5.27	-724.74	-87.39	86.38
941	3	1.01	0.28	1.32	-4.05	1.52	3.07	-1.85	-770.53	-113.47	131.16
941	4	0.54	0.33	0.95	-5.97	1.33	3.31	-5.90	-679.10	-68.34	110.36
942	1	0.25	0.07	1.50	-2.95	0.82	1.16	-1.26	-769.67	-111.33	107.78
942	2	0.80	0.06	-0.02	-2.06	-0.03	-3.76	0.48	-824.84	-172.64	147.45
942	3	0.83	0.24	-0.50	-1.65	0.15	-3.74	-0.35	-894.70	-138.99	121.48
942	4	0.35	0.25	1.03	-2.65	1.18	0.59	-0.17	-843.11	-136.36	149.06
943	1	0.27	0.16	-1.99	-9.35	4.82	9.69	-8.63	-537.06	-40.38	-0.32
943	2	0.66	0.13	-1.07	-6.43	4.57	10.91	-4.52	-643.93	-44.67	-3.57
943	3	0.89	0.48	-2.45	-4.00	4.01	-8.16	2.85	-685.07	-69.65	166.63
943	4	0.57	0.60	-3.45	-7.39	5.74	-3.89	2.41	-469.70	-92.82	148.78
944	1	0.24	0.10	0.00	-5.38	3.79	8.91	-1.13	-722.43	-70.26	67.83
944	2	0.65	0.08	0.27	-2.66	2.78	3.12	-0.56	-856.85	-94.44	71.31
944	3	0.78	0.31	-0.39	-0.72	1.53	-10.65	3.12	-1070.26	-84.55	184.47
944	4	0.44	0.38	-0.97	-2.72	2.79	-9.80	2.90	-813.21	-106.46	236.26
945	1	0.20	0.07	0.40	-1.85	1.59	0.11	2.41	-949.24	-135.89	148.62
945	2	0.62	0.06	-0.97	-0.94	0.17	-3.94	1.58	-982.56	-87.73	74.81
945	3	0.63	0.24	-1.23	-0.11	-0.02	-5.54	0.24	-1155.83	-31.62	31.63
945	4	0.29	0.26	-0.11	-0.85	0.97	-8.91	3.27	-1133.18	-73.98	197.03
946	1	0.20	0.06	-2.16	-2.32	-0.82	-4.55	1.22	-800.54	-130.29	79.73
946	2	0.75	0.07	-3.85	-3.74	-1.24	-3.82	0.91	-682.41	-143.56	72.80
946	3	0.65	0.25	-3.65	-2.70	-1.70	-4.05	1.32	-673.29	-218.57	54.85
946	4	0.17	0.24	-2.30	-1.62	-0.83	-4.26	3.17	-862.75	-103.55	62.07
947	1	0.15	0.08	-3.92	-5.18	-1.13	-2.69	1.90	-760.32	-230.73	-82.84
947	2	0.70	0.09	-3.61	-6.67	-0.79	-0.66	-0.41	-678.29	-20.30	-62.27
947	3	0.46	0.33	-3.53	-6.59	-1.51	-2.33	-1.76	-621.44	-38.08	-130.68
947	4	-0.01	0.28	-3.89	-4.66	-1.90	-3.91	0.70	-773.96	-113.25	-12.92
948	1	0.10	0.10	-3.34	-7.27	-0.55	-0.27	-3.30	-706.01	-19.90	-19.85
948	2	0.64	0.13	-2.69	-7.40	-0.17	1.83	-4.20	-534.28	-28.62	24.52
948	3	0.23	0.47	-2.94	-8.56	-0.52	0.15	-3.40	-509.42	-40.25	-43.30
948	4	-0.21	0.38	-3.49	-7.85	-1.23	-0.30	-1.85	-592.65	-34.00	-79.75
949	1	0.16	0.06	-2.57	-0.97	-0.65	-3.86	1.37	-920.34	-114.23	90.65
949	2	0.58	0.07	-3.97	-1.86	-1.78	-4.20	1.61	-686.91	-106.38	-84.81
949	3	0.49	0.26	-4.32	-0.89	-1.43	-1.61	1.12	-856.77	-31.34	-130.88
949	4	0.14	0.24	-2.62	-0.16	-0.17	-3.02	1.59	-1028.93	-43.11	28.12
950	1	0.12	0.08	-4.76	-2.77	-2.55	-3.69	1.70	-740.04	-36.43	-9.51
950	2	0.53	0.10	-4.50	-5.33	-3.30	-5.58	1.75	-612.09	-81.43	-48.05
950	3	0.32	0.38	-5.48	-2.71	-3.37	5.28	1.93	-523.45	-72.80	-125.53
950	4	-0.01	0.31	-5.32	-0.78	-1.94	3.14	1.75	-747.64	-54.91	-96.17
951	1	0.07	0.13	-4.52	-6.57	-3.62	-6.47	-2.22	-533.29	2.42	12.62
951	2	0.46	0.16	-4.13	-9.27	-3.68	-5.08	-5.43	-454.54	-26.46	4.83
951	3	0.16	0.60	-5.60	-7.16	-5.55	2.65	3.33	-282.32	-40.93	-83.78
951	4	-0.16	0.48	-6.04	-3.87	-4.69	5.34	2.88	-417.93	-35.41	-112.59
952	1	0.13	0.21	-6.20	-0.89	-0.07	4.74	2.40	-37.83	-619.73	0.37
952	2	0.47	0.21	-4.31	-0.61	0.27	5.14	0.79	-7.86	-656.53	-4.49
952	3	0.47	0.79	-3.20	-0.19	0.01	4.54	1.66	-17.42	-657.74	-15.60
952	4	0.13	0.79	-5.13	-0.33	-0.34	5.87	2.62	-21.68	-639.00	-30.25
953	1	0.09	0.21	-3.38	-0.50	0.61	3.89	2.44	-14.62	-672.37	-6.55
953	2	0.32	0.21	-2.32	-0.34	0.45	3.29	-4.23	-9.17	-679.42	-11.97
953	3	0.32	0.79	-1.34	-0.13	0.28	2.63	-1.71	-6.24	-665.30	-21.76
953	4	0.09	0.79	-2.09	-0.19	0.31	3.64	3.39	-8.60	-660.80	-16.23
954	1	0.09	0.21	1.67	0.38	0.73	1.52	7.43	-0.04	-686.32	26.15
954	2	0.33	0.21	1.86	0.51	0.73	1.69	-6.62	-3.29	-681.36	14.97
954	3	0.33	0.79	1.14	0.32	0.54	-1.23	-4.80	-4.36	-665.67	25.98
954	4	0.09	0.79	1.29	0.42	0.55	-2.18	3.35	-3.30	-667.78	31.98
955	1	0.09	0.21	-1.62	-0.62	0.84	-1.87	3.72	1.97	-691.47	-33.95
955	2	0.35	0.21	-1.81	-0.79	0.83	-1.48	-8.88	1.74	-701.61	-42.87
955	3	0.35	0.79	-2.25	-0.75	0.60	-3.52	-2.05	2.16	-654.03	-56.71
955	4	0.09	0.79	-1.72	-0.69	0.60	-2.24	7.18	4.31	-663.61	-40.48
956	1	0.09	0.21	2.01	0.87	0.82	-0.11	1.92	20.86	-644.39	68.25
956	2	0.33	0.21	1.93	0.76	0.52	-0.53	-3.80	14.58	-689.45	50.86
956	3	0.33	0.79	2.49	0.75	0.46	0.82	-4.92	16.81	-656.56	65.91
956	4	0.09	0.79	2.51	0.70	0.71	0.46	2.36	9.57	-671.69	84.94
957	1	0.23	0.21	-2.48	-0.62	0.80	-1.14	0.60	-3.91	-501.92	-146.25
957	2	0.86	0.21	-3.18	-0.32	0.76	0.47	-8.34	-11.22	-512.06	90.89
957	3	0.86	0.79	-2.63	-0.95	0.57	-0.47	0.74	-35.11	-526.21	12.16
957	4	0.23	0.79	-2.66	-0.68	1.04	-0.86	2.38	-34.21	-544.23	-67.95
958	1	0.30	0.17	-2.55	0.59	0.39	1.67	2.21	-5.32	-658.68	3.12
958	2	1.10	0.05	-8.39	2.02	1.26	-8.97	14.25	-22.79	-642.20	-18.63
958	3	1.10	0.63	-3.15	1.42	2.08	-0.66	-7.24	-6.28	-693.48	14.28
958	4	0.30	0.75	-3.22	-0.11	1.56	1.68	2.73	0.49	-671.83	27.67
959	1	0.18	0.21	-24.59	-4.48	-0.25	2.70	-0.95	-107.87	-488.99	89.76
959	2	0.67	0.21	-24.24	-3.56	-0.14	1.66	0.65	-118.98	-440.95	63.14
959	3	0.67	0.79	-23.71	-4.10	1.08	2.11	0.19	-171.81	-449.93	30.85
959	4	0.18	0.79	-24.25	-5.31	0.35	4.74	-1.21	-190.08	-427.49	58.63
960	1	0.21	0.21	-25.14	-4.42	-1.22	-1.36	-10.78	7.80	-780.59	35.61
960	2	0.78	0.21	-24.99	-4.43	-1.20	1.64	-4.14	-55.81	-795.09	103.51
960	3	0.78	0.79	-24.39	-8.46	-0.19	3.06	-4.39	-215.57	-729.42	118.59
960	4	0.21	0.79	-27.41	-9.51	-0.54	7.01	-11.75	-269.50	-931.00	190.68
961	1	0.21	0.34	0.81	4.82	-0.89	-0.48	14.13	-351.74	5.92	-54.96
961	2	0.79	0.34	1.79	8.04	-1.16	0.33	15.23	-752.94	-4.84	-49.17
961	3	0.79	1.28	6.48	21.99	-0.77	30.37	20.80	-408.91	6.78	-26.05
961	4	0.21	1.28	1.50	19.73	-0.55	-8.31	12.76	-353.05	1.29	-30.92
962	1	0.21	0.29	-3.12	-16.32	-0.37	0.78	14.10	-372.99	19.18	-37.58
962	2	0.79	0.29	-2.85	-16.46	-0.32	-0.92	13.16	-366.00	14.92	-34.33
962	3	0.79	1.09	-0.50	-5.11	-0.29	-4.67	17.42	-350.62	9.72	-40.97
962	4	0.21	1.09	-0.53	-5.23	-0.39	5.89	15.46	-368.51	11.87	-44.71
963	1	0.21	0.32	-5.37	-27.16	0.05	0.25	4.79	-388.04	23.28	-17.20
963	2	0.79	0.32	-5.31	-27.30	0.07	-0.80	4.90	-381.39	21.53	-16.65
963	3	0.79	1.19	-4.11	-22.48	-0.05	1.40	6.42	-374.20	19.04	-25.54
963	4	0.21	1.19	-4.41	-22.36	-0.17	-0.51	5.96	-378.52	21.53	-28.72
964	1	0.21	0.28	-5.13	-25.77	0.30	-0.15	-3.51	-396.53	23.10	-2.01
964	2	0.79	0.28	-5.10	-25.86	0.30	-0.05	-3.68	-391.01	22.50	-2.27
964	3	0.79	1.06	-5.54	-28.13	0.23	-0.58	-2.15	-385.46	22.25	-10.23
964	4	0.21	1.06	-5.53	-28.01	0.19	0.48	-2.14	-392.47	23.29	-10.31
965	1	0.30	0.21	-2.91	-0.48	2.12	-3.81	5.46	-4.23	-626.55	20.80
965	2	1.10	0.21	-1.51	-0.56	1.48	9.70	-7.12	-8.83	-687.76	14.99
965	3	1.10	0.79	-0.80	-1.21	2.02	-0.66	-4.84	-3.75	-669.24	11.14
965	4	0.30	0.79	-1.99	-0.73	1.68	-0.06	5.26	-10.47	-641.00	9.13
966	1	0.23	0.21	-2.49	-0.24	0.98	0.80	3.08	-16.84	-601.82	-29.05
966	2	0.86	0.21	-2.08	-0.11	0.63	1.29	-3.69	-23.94	-615.17	-15.42
966	3	0.86	0.79	-1.89	-0.27	0.49	-0.08	-4.08	-8.98	-639.93	-7.35
966	4	0.23	0.79	-2.16	0.00	0.65	-0.24	1.36	-3.28	-635.94	-29.50
967	1	0.09	0.21	2.61	0.04	0.54	-1.18	-0.01	-1.81	-597.79	24.09
967	2	0.33	0.21	2.59	0.03	0.46	-1.16	-5.07	-3.52	-630.29	66.72
967	3	0.33	0.79	2.46	-0.56	0.20	-2.51	-1.59	1.77	-625.37	52.28
967	4	0.09	0.79	2.49	-0.42	0.26	-0.06	0.11	-3.45	-626.48	41.35
968	1	0.09	0.21	-1.39	0.45	0.48	-2.86	5.65	0.75	-642.99	-47.13
968	2	0.35	0.21	-2.20	0.27	0.52	-3.28	-1.70	3.17	-640.82	-55.99
968	3	0.35	0.79	-2.09	1.53	0.17	-3.48	1.13	5.66	-624.92	-56.41
968	4	0.09	0.79	-0.90	1.77	0.16	-6.18	3.95	-0.54	-628.55	-54.22
969	1	0.09	0.21	0.91	-0.53	0.37	-3.14	0.05	-2.54	-645.07	39.23
969	2	0.33	0.21	0.38	-0.61	0.33	-2.33	-2.41	-7.73	-652.87	28.05
969	3	0.33	0.79	-0.90	-2.50	0.07	-4.34	-3.04	-17.84	-636.26	49.24
969	4	0.09	0.79	0.38	-2.32	0.13	-3.81	-2.53	-3.54	-629.70	52.08
970	1	0.09	0.21	-1.24	0.54	0.00	3.38	4.16	-14.63	-664.12	-24.98

970	2	0.32	0.21	-6.43	0.67	0.08	2.55	1.02	-9.84	-657.84	-22.86
970	3	0.32	0.79	0.86	2.21	-0.15	3.26	4.37	-28.04	-646.21	-45.43
970	4	0.09	0.79	-0.38	2.03	-0.38	3.95	3.63	-40.11	-667.34	-48.22
971	1	0.13	0.21	-4.22	0.37	-0.65	5.23	7.74	-27.91	-660.97	-48.80
971	2	0.47	0.21	-2.29	0.56	-0.27	4.97	2.36	-22.08	-665.48	-27.58
971	3	0.47	0.79	-1.32	1.85	-0.50	5.60	2.77	-35.25	-679.76	-47.80
971	4	0.13	0.79	-3.21	1.50	-0.77	4.29	2.63	-72.93	-705.46	-60.41
972	1	0.18	0.21	-23.29	-5.68	0.88	4.29	1.92	-232.03	-436.08	35.74
972	2	0.67	0.21	-22.24	-4.37	2.17	3.09	4.87	-176.85	-381.67	27.33
972	3	0.67	0.79	-19.24	-4.28	3.16	7.10	6.22	-149.80	-448.83	-18.68
972	4	0.18	0.79	-21.45	-5.30	-1.67	5.83	1.95	-209.80	-450.16	-74.98
973	1	0.21	0.21	-29.55	-13.73	0.78	18.72	-2.46	-426.37	-918.94	1.44
973	2	0.78	0.21	-24.93	-10.76	1.09	7.71	-4.59	-323.99	-673.91	52.27
973	3	0.78	0.79	-23.89	-9.66	2.67	8.84	3.60	-296.63	-655.55	-108.65
973	4	0.21	0.79	-29.14	-12.52	1.76	17.70	15.89	-428.57	-876.71	30.44
974	1	0.21	0.34	2.81	4.03	-0.40	0.27	17.64	-343.87	-2.99	-41.83
974	2	0.79	0.34	2.55	4.15	0.53	-1.24	17.65	-335.32	8.34	-30.46
974	3	0.79	1.28	7.52	22.32	0.14	15.75	28.36	-386.41	10.29	-75.56
974	4	0.21	1.28	8.08	22.74	-0.14	-18.00	28.65	-406.32	11.76	-56.05
975	1	0.21	0.29	-2.79	-16.67	-0.19	-0.42	14.12	-360.24	14.42	-30.53
975	2	0.79	0.29	-2.91	-16.74	0.14	-0.11	14.24	-355.37	15.45	-25.63
975	3	0.79	1.09	-0.21	-5.16	0.15	-7.96	13.68	-354.89	10.65	-37.08
975	4	0.21	1.09	-0.01	-5.11	-0.24	7.70	14.19	-357.63	7.55	-34.04
976	1	0.21	0.32	-5.29	-27.38	0.12	0.18	4.59	-376.69	20.61	-15.87
976	2	0.79	0.32	-5.36	-27.51	0.19	-0.74	4.55	-371.18	20.14	-14.56
976	3	0.79	1.19	-4.35	-22.69	0.04	0.92	6.91	-363.50	17.98	-21.96
976	4	0.21	1.19	-4.27	-22.59	0.03	-1.53	6.88	-369.06	18.19	-24.88
977	1	0.21	0.28	-5.11	-25.93	0.32	-0.30	-3.56	-386.77	22.04	-2.14
977	2	0.79	0.28	-5.17	-26.01	0.37	-0.09	-3.65	-381.35	21.33	-2.06
977	3	0.79	1.06	-5.57	-28.31	0.26	-1.04	-2.13	-376.19	20.94	-9.40
977	4	0.21	1.06	-5.51	-28.20	0.25	0.58	-2.11	-381.67	21.48	-9.45
978	1	0.30	0.21	-1.26	-0.80	1.36	1.25	1.42	-9.07	-653.53	7.72
978	2	1.10	0.21	-0.27	-1.25	1.11	0.82	-3.09	0.91	-659.47	7.27
978	3	1.10	0.79	-0.29	-1.27	0.87	0.11	-1.77	-1.37	-651.60	3.99
978	4	0.30	0.79	-0.88	-0.80	1.01	-0.02	1.70	-6.10	-659.28	5.27
979	1	0.23	0.21	-1.81	-0.21	0.15	-0.07	1.08	-1.33	-648.97	-26.27
979	2	0.86	0.21	-1.71	-0.59	0.53	-1.12	0.68	-5.82	-647.97	-2.12
979	3	0.86	0.79	-1.04	-0.64	0.36	-0.33	-0.11	-9.12	-662.31	-2.27
979	4	0.23	0.79	-0.84	-0.45	-0.20	-0.18	1.62	-6.86	-669.09	-17.88
980	1	0.09	0.21	2.20	-0.25	-0.42	-0.46	0.85	3.59	-649.81	36.06
980	2	0.33	0.21	2.17	-0.43	-0.25	-1.61	2.81	9.53	-642.33	48.35
980	3	0.33	0.79	0.90	0.19	-0.70	0.19	6.80	-0.98	-675.73	44.73
980	4	0.09	0.79	0.93	0.25	-1.04	-1.30	-1.20	-3.58	-674.98	30.16
981	1	0.09	0.21	-0.88	2.36	-0.40	-6.83	-4.31	-0.01	-627.48	-66.84
981	2	0.35	0.21	-1.81	2.09	-0.42	-5.31	2.89	2.33	-640.01	-56.43
981	3	0.35	0.79	-0.88	0.51	-1.45	-1.78	5.51	-1.41	-676.99	-57.97
981	4	0.09	0.79	-1.07	0.77	-1.38	-0.97	-15.23	0.37	-669.53	-82.57
982	1	0.09	0.21	-0.13	-3.69	-0.36	-5.69	-4.53	-15.38	-627.52	71.44
982	2	0.33	0.21	-1.27	-3.94	-0.34	-8.76	0.04	-38.41	-633.43	74.02
982	3	0.33	0.79	0.66	-2.08	-1.16	-5.92	19.59	-20.48	-647.57	131.88
982	4	0.09	0.79	0.67	-1.84	-1.26	-2.92	-1.95	-16.43	-664.47	99.66
983	1	0.09	0.21	0.19	2.94	-0.44	4.51	-0.44	-59.32	-662.52	-72.68
983	2	0.32	0.21	1.32	3.38	-0.24	7.41	3.39	-39.92	-638.14	-69.92
983	3	0.32	0.79	-0.67	1.91	-0.33	5.89	-2.99	-64.30	-645.30	-137.63
983	4	0.09	0.79	-1.13	1.56	-0.28	1.39	-8.93	-94.46	-654.73	-125.63
984	1	0.13	0.21	-2.54	1.88	-0.64	4.08	0.39	-106.84	-744.02	-88.13
984	2	0.47	0.21	-1.07	2.52	-0.39	6.47	0.67	-82.16	-696.79	-75.64
984	3	0.47	0.79	-1.95	1.07	0.15	4.16	-4.98	-128.62	-698.23	-99.28
984	4	0.13	0.79	-2.10	-0.37	0.09	1.96	-3.83	-118.06	-706.06	-149.26
985	1	0.18	0.21	-19.62	-4.59	1.58	5.13	1.56	-162.25	-663.94	-102.83
985	2	0.67	0.21	-16.77	-4.74	3.16	6.84	5.08	-122.07	-505.53	-60.93
985	3	0.67	0.79	-13.87	-5.17	1.27	6.92	7.14	-115.77	-571.16	-95.14
985	4	0.18	0.79	-16.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-106.62	-513.16	-128.48
986	1	0.21	0.21	-23.[illegible]	[illegible]	[illegible]	[illegible]	23.52	-232.32	-677.99	-178.95
986	2	0.78	0.21	-21.[illegible]	[illegible]	2.81	[illegible]	5.12	-177.75	-737.39	-167.62
986	3	0.78	0.79	-20.93	-1.95	1.07	2.51	0.97	-38.64	-767.26	-132.30
986	4	0.21	0.79	-23.38	-0.28	1.08	-4.26	5.19	22.59	-590.95	-81.41
987	1	0.21	0.34	1.10	4.18	1.30	-0.51	14.86	-349.15	13.35	-29.27
987	2	0.79	0.34	-0.61	4.96	0.58	-1.07	13.45	-336.70	23.03	-37.43
987	3	0.79	1.28	0.11	18.96	0.45	0.83	10.05	-279.28	10.00	-58.99
987	4	0.21	1.28	5.28	21.20	0.66	-31.90	17.87	-304.32	20.61	-94.58
988	1	0.21	0.29	-3.11	-16.62	0.22	0.34	13.08	-355.40	17.43	-24.03
988	2	0.79	0.29	-3.56	-16.68	0.19	-1.29	14.33	-351.16	20.57	-25.14
988	3	0.79	1.09	-1.08	-5.28	0.08	-5.22	15.96	-336.53	20.60	-31.15
988	4	0.21	1.09	-0.91	-5.17	0.17	-3.89	17.55	-341.56	16.51	-31.99
989	1	0.21	0.32	-5.48	-27.61	0.23	0.19	4.89	-367.85	20.27	-14.00
989	2	0.79	0.32	-5.72	-27.73	0.23	-0.91	4.91	-363.04	19.96	-13.87
989	3	0.79	1.19	-4.80	-22.84	0.19	-0.41	5.86	-355.38	19.82	-19.99
989	4	0.21	1.19	-4.33	-22.73	0.10	-1.68	6.46	-359.36	18.88	-21.71
990	1	0.21	0.28	-5.24	-26.05	0.40	-0.30	-3.82	-372.53	20.83	-1.92
990	2	0.79	0.28	-5.37	-26.11	0.38	-0.19	-3.76	-372.48	20.09	-1.99
990	3	0.79	1.06	-5.85	-28.55	0.30	-1.09	-2.47	-367.15	20.12	-8.73
990	4	0.21	1.06	-5.70	-28.41	0.28	0.03	-2.25	-372.31	20.59	-8.82
991	1	0.30	0.21	-0.66	-0.73	0.76	-0.45	1.80	-6.90	-663.47	1.24
991	2	1.10	0.21	-0.24	-1.10	0.56	0.31	-1.24	-1.78	-647.81	2.26
991	3	1.10	0.79	-0.21	-0.81	0.33	0.29	-0.10	-1.27	-648.12	-0.97
991	4	0.30	0.79	-0.51	-0.41	0.50	-0.06	0.77	-11.78	-667.08	-7.39
992	1	0.23	0.21	0.01	-0.57	-0.20	-1.84	1.57	-16.29	-682.52	-16.02
992	2	0.86	0.21	-0.58	-0.52	0.40	-0.05	0.21	-14.70	-667.24	-4.20
992	3	0.86	0.79	-0.34	-0.28	0.45	-1.39	0.26	-19.58	-673.56	-9.87
992	4	0.23	0.79	1.05	-0.43	0.18	-2.04	2.05	-27.30	-695.24	-17.89
993	1	0.09	0.21	-0.72	0.72	-1.02	0.68	-1.80	-15.42	-693.99	26.82
993	2	0.33	0.21	-0.83	0.81	-0.68	-0.70	5.39	-14.52	-707.08	38.77
993	3	0.33	0.79	-2.47	0.87	-0.22	0.20	1.70	-25.19	-733.55	30.36
993	4	0.09	0.79	-2.05	0.79	-0.25	-0.76	-0.90	-28.20	-712.15	24.11
994	1	0.09	0.21	-0.97	-2.08	-1.50	6.65	-16.85	-3.21	-725.23	-78.20
994	2	0.35	0.21	0.29	-1.52	-1.48	7.55	6.45	-6.78	-713.13	-52.01
994	3	0.35	0.79	1.73	-2.80	-0.51	11.29	4.10	-18.79	-748.23	-37.62
994	4	0.09	0.79	-0.87	-3.33	-0.48	12.37	-2.59	-7.32	-772.90	-46.15
995	1	0.09	0.21	2.42	2.57	-1.53	7.23	-1.81	15.40	-725.38	105.59
995	2	0.33	0.21	3.58	2.89	-1.45	8.83	23.18	18.02	-722.25	140.67
995	3	0.33	0.79	6.12	6.25	-0.48	18.68	4.82	46.25	-801.88	69.69
995	4	0.09	0.79	3.10	5.39	-0.48	16.03	-4.40	28.68	-783.66	57.60
996	1	0.09	0.21	-4.07	-2.22	-0.23	-0.91	-15.59	32.45	-653.46	-238.79
996	2	0.32	0.21	-4.15	-2.40	-0.41	-3.16	-6.63	38.09	-705.13	-181.50
996	3	0.32	0.79	-7.16	-5.68	-0.24	-4.95	1.10	121.23	-794.31	-94.91
996	4	0.09	0.79	-6.55	-5.26	-0.25	-1.29	-2.57	158.35	-765.82	-98.23
997	1	0.13	0.21	-2.96	-2.08	-0.68	-2.10	-6.63	-209.76	-717.10	-118.57
997	2	0.47	0.21	-3.51	-2.05	0.41	-1.89	-8.09	-211.94	-654.72	-182.94
997	3	0.47	0.79	-5.61	-4.67	0.18	-5.78	-2.80	-93.96	-729.32	-93.15
997	4	0.13	0.79	-4.38	-4.04	0.82	-4.24	-3.92	-261.56	-686.58	-38.27
998	1	0.18	0.21	-18.22	-3.45	-0.43	3.08	-1.59	-76.88	-515.77	-83.52
998	2	0.67	0.21	-13.78	-4.77	-1.08	6.54	-2.06	-107.81	-588.88	-86.99
998	3	0.67	0.79	-16.79	-3.70	-3.14	5.80	-4.70	-92.79	-560.56	-55.54
998	4	0.18	0.79	-19.41	-3.23	-1.41	2.72	-0.81	-59.58	-502.08	-33.85
999	1	0.21	0.21	-23.55	-0.45	-0.55	0.55	-1.57	16.02	-574.85	-59.60

999	2	0.78	0.21	-21.32	[illegible]	[illegible]	0.43	[illegible]	[illegible]	[illegible]	-67.42
999	3	0.78	0.79	-21.63	-0.60	-2.46	4.28	1.74	[illegible]	-78.01	-25.12
999	4	0.21	0.79	-24.04	-0.29	-1.24	2.30	-5.09	[illegible]	-76.66	-26.68
1000	1	0.21	0.34	-0.21	[illegible]	[illegible]	-0.20	[illegible]	[illegible]	[illegible]	-68.29
1000	2	0.79	0.34	-0.30	[illegible]	[illegible]	-0.08	[illegible]	[illegible]	[illegible]	-67.94
1000	3	0.79	1.28	2.20	[illegible]	[illegible]	2.67	[illegible]	[illegible]	[illegible]	-50.74
1000	4	0.21	1.28	2.06	[illegible]	[illegible]	-4.05	[illegible]	[illegible]	[illegible]	-49.40
1001	1	0.21	0.29	-3.97	-16.84	0.10	-0.48	13.23	[illegible]	-21.24	-25.97
1001	2	0.79	0.29	-4.17	-16.94	-0.06	-0.38	13.72	[illegible]	-20.88	-26.33
1001	3	0.79	1.09	-2.02	[illegible]	[illegible]	0.28	15.07	[illegible]	-22.51	-22.14
1001	4	0.21	1.09	-2.23	[illegible]	[illegible]	0.96	[illegible]	[illegible]	[illegible]	-28.26
1002	1	0.21	0.32	-5.89	[illegible]	[illegible]	-0.04	[illegible]	[illegible]	[illegible]	-13.94
1002	2	0.79	0.32	-6.03	-27.92	0.10	-0.64	6.67	[illegible]	-19.50	-14.16
1002	3	0.79	1.19	-5.25	-22.98	0.02	-0.64	6.07	[illegible]	-19.65	-21.32
1002	4	0.21	1.19	-4.97	-22.87	0.14	-0.58	6.66	[illegible]	-20.27	-20.64
1003	1	0.21	0.28	-5.45	-26.15	0.36	-0.31	-2.84	[illegible]	-18.41	-1.99
1003	2	0.79	0.28	-5.55	-26.23	0.34	-0.18	-3.96	[illegible]	-18.18	-2.83
1003	3	0.79	1.06	-6.11	-28.78	0.29	-0.74	-2.67	[illegible]	-18.39	-8.96
1003	4	0.21	1.06	-6.02	-28.66	0.29	0.11	-2.73	[illegible]	-19.47	-8.65
1004	1	0.30	0.21	-0.76	-0.13	0.31	-0.89	-0.50	[illegible]	-668.18	-13.47
1004	2	1.10	0.21	-0.46	-0.62	-0.22	-0.53	0.54	[illegible]	-652.91	-5.29
1004	3	1.10	0.79	-0.82	-0.16	-0.11	4.62	1.84	[illegible]	-665.33	-13.19
1004	4	0.30	0.79	-1.33	0.13	0.02	-2.51	-1.54	[illegible]	-672.82	-20.30
1005	1	0.23	0.21	1.40	-0.06	0.51	-2.21	0.97	[illegible]	-699.02	-21.35
1005	2	0.86	0.21	-0.18	0.05	0.66	-1.32	1.26	[illegible]	-678.89	-16.43
1005	3	0.86	0.79	-0.14	0.46	0.81	-1.21	0.53	-25.52	-680.98	-26.90
1005	4	0.23	0.79	1.11	0.34	0.82	-2.58	-0.03	-28.15	-698.01	-23.25
1006	1	0.09	0.21	-2.35	0.33	0.51	-1.68	-1.02	-21.56	-718.58	22.13
1006	2	0.33	0.21	-2.91	0.44	0.32	0.03	-4.72	-26.69	-741.51	22.85
1006	3	0.33	0.79	-2.86	-0.35	0.70	-3.08	-6.68	-26.67	-730.34	14.03
1006	4	0.09	0.79	-2.19	-0.36	1.29	-1.51	0.08	-27.47	-713.83	18.85
1007	1	0.09	0.21	-0.71	-2.76	0.31	13.67	3.37	-7.64	-777.42	-24.61
1007	2	0.35	0.21	2.10	-2.10	0.31	11.25	-0.21	-20.82	-756.41	-22.14
1007	3	0.35	0.79	2.19	-0.47	0.91	9.67	-3.28	-20.60	-744.78	-6.62
1007	4	0.09	0.79	0.27	-0.97	0.85	8.14	12.06	-10.65	-772.22	5.54
1008	1	0.09	0.21	2.49	3.74	0.26	10.63	-2.63	-4.88	-788.61	19.40
1008	2	0.33	0.21	5.87	4.17	0.21	12.39	-9.99	22.21	-786.45	12.38
1008	3	0.33	0.79	4.47	2.53	0.41	13.07	-1.70	18.50	-788.23	6.58
1008	4	0.09	0.79	1.59	1.97	0.49	12.67	2.21	-2.81	-784.57	-4.66
1009	1	0.09	0.21	-6.54	-4.22	-0.11	1.16	4.12	51.80	-833.88	-14.65
1009	2	0.32	0.21	-6.85	-4.15	-0.03	0.39	4.74	13.08	-807.88	-0.48
1009	3	0.32	0.79	-5.61	-2.96	0.12	2.21	-2.36	-12.33	-803.97	26.02
1009	4	0.09	0.79	-6.35	-3.09	0.26	1.99	2.31	26.85	-798.21	-30.54
1010	1	0.13	0.21	-5.40	-4.02	0.58	-0.65	-0.80	-101.39	-827.78	100.87
1010	2	0.47	0.21	-6.40	-4.29	-0.04	-3.77	0.33	87.81	-862.45	-6.61
1010	3	0.47	0.79	-6.39	-3.33	0.18	1.17	0.32	57.86	-825.69	10.06
1010	4	0.13	0.79	-6.52	-3.57	0.49	1.46	-0.53	5.00	-791.21	-8.09
1011	1	0.18	0.21	-21.16	-3.45	-1.69	4.52	-0.85	[illegible]	-796.14	-4.34
1011	2	0.67	0.21	-19.52	-3.07	-3.40	1.61	-4.63	-64.15	-527.81	-31.93
1011	3	0.67	0.79	-22.70	-3.26	-2.93	1.47	-5.84	-32.91	-479.21	-2.42
1011	4	0.18	0.79	-23.23	-3.79	-1.70	2.11	-2.01	-13.02	-478.30	25.99
1012	1	0.21	0.21	-24.81	-0.89	-1.48	2.52	-7.72	5.01	-593.56	-6.50
1012	2	0.78	0.21	-22.51	-0.75	-2.63	2.47	1.18	-1.89	-717.55	2.40
1012	3	0.78	0.79	-24.18	-1.45	-2.79	2.82	2.31	9.01	-719.13	25.24
1012	4	0.21	0.79	-25.75	-1.87	-1.86	2.51	-8.38	0.31	-624.85	10.85
1013	1	0.21	0.34	-0.31	4.64	-0.29	1.03	15.42	-317.93	21.18	-36.21
1013	2	0.79	0.34	-0.02	4.74	-0.35	0.53	16.05	-319.02	16.71	-35.27
1013	3	0.79	1.28	3.30	20.38	0.01	1.76	17.40	-292.58	11.92	-20.80
1013	4	0.21	1.28	2.72	19.83	-0.06	0.83	16.63	-277.83	13.70	-20.24
1014	1	0.21	0.29	-4.15	-17.01	-0.13	0.35	13.54	-339.68	18.96	-26.96
1014	2	0.79	0.29	-4.05	-17.16	-0.26	-0.20	13.43	-334.85	16.12	-27.90
1014	3	0.79	1.09	-4.91	-5.35	-0.38	0.73	15.63	-326.54	16.72	-24.27
1014	4	0.21	1.09	-5.04	-5.44	-0.24	-0.60	15.52	-330.81	14.48	-25.57
1015	1	0.21	0.28	-5.07	-28.02	0.10	0.16	7.04	-350.95	17.11	-21.61
1015	2	0.79	0.32	-5.05	-28.16	0.05	-0.43	5.01	-345.64	15.83	-16.92
1015	3	0.79	1.19	-5.14	-23.15	-0.16	-0.55	6.41	-339.46	15.39	-22.77
1015	4	0.21	1.19	-5.20	-23.04	-0.06	0.35	6.11	-344.39	18.57	-22.41
1016	1	0.21	0.28	-5.58	-26.28	0.31	-0.18	-4.06	-359.83	17.05	-2.04
1016	2	0.79	0.28	-5.59	-26.37	0.27	-0.06	-4.10	-354.67	15.01	-3.11
1016	3	0.79	1.06	-6.18	-28.97	0.15	-0.55	-2.88	-349.56	14.78	-9.12
1016	4	0.21	1.06	-6.18	-28.86	0.20	0.18	-2.78	-354.91	17.20	-9.10
1017	1	0.30	0.25	-1.76	0.16	0.29	-1.04	-2.68	-19.11	-676.68	-25.74
1017	2	1.10	0.37	-2.11	0.89	-0.60	0.26	2.44	-16.02	-685.29	-25.82
1017	3	1.10	0.95	-5.83	0.81	0.05	-3.64	-11.58	-15.60	-637.54	2.86
1017	4	0.30	0.83	-1.42	0.29	0.81	-1.21	-0.79	-12.98	-684.78	-29.14
1018	1	0.23	0.21	0.79	0.53	0.89	-2.95	-1.13	-23.07	-694.36	-23.77
1018	2	0.86	0.21	-0.54	0.07	0.88	-1.63	-0.40	-20.12	-673.37	-26.36
1018	3	0.86	0.79	-1.28	0.06	0.66	0.17	2.20	-15.40	-686.46	-33.13
1018	4	0.23	0.79	0.15	0.00	1.10	-2.12	-2.23	-16.77	-684.36	-23.88
1019	1	0.09	0.21	-1.67	-0.54	1.32	-2.28	0.19	-23.78	-707.01	19.61
1019	2	0.33	0.21	-2.35	-0.79	0.65	-3.06	-6.19	-22.79	-716.67	10.51
1019	3	0.33	0.79	-1.43	-0.04	0.72	-2.08	-3.80	-15.12	-690.26	8.75
1019	4	0.09	0.79	-1.01	-0.02	1.37	-2.62	3.92	-17.40	-686.56	17.25
1020	1	0.09	0.21	0.68	0.29	0.98	3.50	6.85	-19.69	-737.42	10.19
1020	2	0.35	0.21	2.08	0.36	0.96	5.87	-6.93	-22.99	-724.31	-3.43
1020	3	0.35	0.79	1.36	-0.13	0.99	4.54	-9.79	-13.68	-695.37	0.05
1020	4	0.09	0.79	0.25	-0.52	0.98	4.46	5.44	-12.13	-708.51	18.10
1021	1	0.09	0.21	0.74	0.88	0.92	13.33	4.48	-5.18	-762.28	-31.98
1021	2	0.33	0.21	3.22	1.63	0.91	11.43	-15.03	-3.80	-840.34	-57.95
1021	3	0.33	0.79	2.12	0.50	1.02	3.93	-4.94	-8.92	-672.75	-68.52
1021	4	0.09	0.79	0.47	0.54	0.99	4.67	10.18	-22.08	-700.34	-32.39
1022	1	0.09	0.21	-5.74	-2.84	0.58	5.42	2.75	78.06	-837.49	0.51
1022	2	0.32	0.21	-4.68	-2.57	0.41	6.22	-1.30	49.69	-835.70	23.82
1022	3	0.32	0.79	-3.31	-1.48	0.80	7.58	-5.80	48.84	-754.59	118.21
1022	4	0.09	0.79	-4.19	-2.04	1.13	7.31	6.02	-12.50	-1116.19	265.14
023	1	0.13	0.21	-6.76	-3.21	0.50	1.50	1.62	46.90	-699.55	-17.55
1023	2	0.47	0.21	-6.14	-3.13	0.44	1.11	-0.26	43.38	-787.31	7.83
1023	3	0.47	0.79	-5.00	-2.31	0.63	1.40	2.66	-29.38	-1061.23	-222.05
1023	4	0.13	0.79	-6.05	-2.43	0.30	3.01	3.36	33.71	-616.36	-51.37
1024	1	0.18	0.21	-24.52	-4.09	-1.56	2.33	-0.10	-8.36	-463.67	39.46
1024	2	0.67	0.21	-24.28	-3.36	-2.25	1.26	-1.97	-25.34	-452.85	16.01
1024	3	0.67	0.79	-25.13	-3.60	-1.25	1.99	-3.12	-27.23	-422.30	44.12
1024	4	0.18	0.79	-25.63	-4.59	-1.08	2.42	-0.98	-11.99	-447.99	48.96
1025	1	0.21	0.21	-26.26	-2.55	-1.78	1.48	-8.62	23.09	-659.28	14.74
1025	2	0.78	0.21	-25.34	-2.34	-2.69	2.08	0.12	8.19	-724.61	44.08
1025	3	0.78	0.79	-26.68	-4.13	-2.46	2.62	0.70	-35.80	-733.88	71.37
1025	4	0.21	0.79	-26.80	-4.44	-1.71	0.75	-10.65	39.58	-705.79	14.82
1026	1	0.21	0.34	0.43	4.96	-0.42	1.69	16.21	-321.66	12.66	-35.71
1026	2	0.79	0.34	0.91	5.33	-0.39	2.03	20.14	-324.54	5.65	-38.14
1026	3	0.79	1.28	4.55	21.38	-0.01	5.64	16.63	-328.97	3.00	-12.62
1026	4	0.21	1.28	3.15	20.67	0.00	-0.31	16.77	-303.70	9.96	-16.75
1027	1	0.21	0.29	-3.92	-17.14	-0.29	0.73	14.17	-331.26	12.47	-28.19
1027	2	0.79	0.29	-3.63	-17.14	-0.33	0.44	14.16	-326.59	7.35	-27.20
1027	3	0.79	1.09	-1.44	-5.53	-0.45	-2.10	13.24	-319.11	5.80	-31.43
1027	4	0.21	1.09	-1.55	-5.37	-0.44	0.54	15.65	-324.46	11.26	-34.20
1028	1	0.21	0.32	-6.02	-28.25	0.02	0.39	4.88	-341.70	13.59	-14.62

1028	2	0.79	0.32	-5.93	-28.35	0.01	-0.58	4.91	-336.53	11.50	-14.06
1028	3	0.79	1.19	-4.87	-23.45	-0.19	0.29	6.91	-330.53	9.48	-21.60
1028	4	0.21	1.19	-5.12	-23.28	-0.19	0.05	6.23	-335.31	12.87	-22.43
1029	1	0.21	0.28	-5.57	-26.43	0.25	-0.09	-4.00	-350.83	13.95	-2.15
1029	2	0.79	0.28	-5.53	-26.51	0.23	-0.05	-4.12	-345.80	12.17	-2.08
1029	3	0.79	1.06	-6.09	-29.16	0.11	-0.41	-2.77	-340.66	11.94	-8.79
1029	4	0.21	1.06	-6.12	-29.04	0.12	0.35	-2.73	-345.85	13.82	-9.11
1030	1	0.36	0.08	-4.49	-0.03	-0.36	-8.82	-1.44	-61.98	59.61	-41.71
1030	2	1.35	0.08	-14.14	0.11	2.54	-10.48	9.97	-57.15	-76.89	35.33
1030	3	1.35	0.32	-13.59	0.63	-2.19	-6.89	-8.16	-107.54	-78.28	-36.49
1030	4	0.36	0.32	-4.88	-0.12	0.05	-10.91	1.06	-102.41	59.63	40.55
1031	1	0.32	0.08	7.13	0.25	-0.21	-7.46	-0.47	-70.37	31.36	-29.82
1031	2	1.19	0.08	0.79	-0.54	-0.44	-8.18	-2.93	-65.88	-50.88	42.95
1031	3	1.19	0.32	1.12	-0.59	0.52	-4.66	2.78	-99.25	-50.48	-44.15
1031	4	0.32	0.32	6.85	0.21	-0.12	-7.43	1.59	-94.60	31.38	28.61
1032	1	0.28	0.08	-10.49	0.19	0.15	-5.91	-0.48	-73.68	-23.48	-25.57
1032	2	1.06	0.08	-14.37	-0.17	-0.20	-5.95	-0.29	-77.63	8.67	24.63
1032	3	1.06	0.32	-14.26	-0.13	-0.12	-4.51	-1.80	-87.79	8.61	-23.45
1032	4	0.28	0.32	-10.71	0.12	-0.26	-2.73	2.14	-91.78	-23.61	26.75
1033	1	0.17	0.12	27.73	-1.02	0.61	-6.62	1.28	-38.44	6.99	94.38
1033	2	0.62	0.12	22.51	0.28	0.61	-8.20	-0.39	-30.69	-11.92	71.98
1033	3	0.53	0.45	23.77	0.31	2.02	-8.55	0.03	-15.01	0.05	72.65
1033	4	0.14	0.44	28.35	-0.66	1.79	-6.97	4.11	-20.59	12.13	92.23
1034	1	0.12	0.12	18.24	1.06	0.46	-8.85	0.68	-25.57	-72.90	40.35
1034	2	0.58	0.13	13.00	1.91	0.22	-7.76	-0.78	-6.99	-219.43	40.99
1034	3	0.37	0.50	15.01	1.76	1.78	-6.88	-2.44	6.81	-98.19	13.39
1034	4	-0.02	0.47	19.78	0.99	2.09	-9.19	1.40	-7.51	-10.29	47.25
1035	1	0.08	0.14	9.87	2.12	-0.02	-7.11	0.87	27.29	-332.45	60.77
1035	2	0.53	0.16	6.66	2.22	-0.23	-4.91	-1.44	25.02	-543.26	-53.26
1035	3	0.19	0.59	8.42	2.53	0.86	-3.77	-0.27	96.27	-393.25	4.70
1035	4	-0.18	0.53	11.67	2.06	1.37	-6.55	-1.09	50.43	-237.79	30.53
1036	1	0.13	0.12	28.97	0.09	1.79	-6.60	7.25	12.86	9.37	84.57
1036	2	0.47	0.12	24.70	0.80	1.98	-10.48	3.37	31.61	23.33	71.91
1036	3	0.39	0.45	27.38	1.10	3.36	-12.18	1.48	131.65	21.57	49.17
1036	4	0.12	0.44	31.85	0.61	1.56	-20.52	5.75	71.86	5.70	35.32
1037	1	0.10	0.13	21.32	0.95	0.42	-12.58	2.35	41.02	3.54	59.45
1037	2	0.43	0.14	16.61	1.21	0.55	-13.08	-0.30	43.14	-45.30	14.63
1037	3	0.27	0.53	18.99	1.25	3.26	-3.39	-0.24	182.18	7.98	52.50
1037	4	0.00	0.48	24.22	0.93	2.41	-8.04	2.91	170.92	19.12	51.10
1038	1	0.06	0.16	13.61	1.33	-0.40	-13.41	-0.18	25.54	-117.36	-46.77
1038	2	0.39	0.18	9.91	1.34	-0.20	-11.53	-4.25	64.14	-226.46	-80.33
1038	3	0.14	0.67	11.72	1.08	2.32	-1.54	-0.30	122.37	-50.92	-11.41
1038	4	-0.12	0.59	16.02	0.91	2.20	-2.44	0.84	177.54	7.17	26.74
1039	1	0.16	0.12	-30.59	1.77	0.45	-3.51	-0.64	-37.12	-3.18	-96.60
1039	2	0.61	0.12	-32.09	2.18	0.15	-0.90	-0.61	-28.58	-49.33	-82.30
1039	3	0.52	0.45	-32.85	2.25	0.26	-2.03	-3.42	-37.78	-39.69	-91.38
1039	4	0.14	0.44	-30.96	1.50	1.24	-5.69	-2.66	-31.01	1.53	-92.35
1040	1	0.12	0.12	-31.70	1.80	-0.10	1.11	0.09	-17.73	-98.23	-64.55
1040	2	0.57	0.13	-29.83	0.35	-0.16	1.44	-1.31	11.46	-179.42	-42.76
1040	3	0.36	0.50	-31.45	1.66	-2.31	-1.89	2.51	-27.25	-178.23	-68.71
1040	4	-0.01	0.47	-32.63	2.35	-0.82	-2.61	-1.96	-38.22	-91.69	-82.10
1041	1	0.08	0.14	-28.31	-0.51	-0.12	2.47	-0.50	24.79	-255.71	-16.22
1041	2	0.52	0.16	-26.59	-1.78	-0.19	0.85	2.94	33.81	-377.98	75.75
1041	3	0.19	0.58	-27.71	-1.94	-2.83	-7.77	-3.89	8.79	-326.49	-20.69
1041	4	-0.18	0.53	-29.39	0.56	-2.67	-6.49	0.02	-17.99	-229.00	-63.21
1042	1	0.13	0.12	-31.17	0.17	3.87	-2.55	-6.69	-20.20	6.12	-80.82
1042	2	0.46	0.12	-33.24	1.52	3.27	3.79	-7.37	-45.43	-29.36	-79.57
1042	3	0.39	0.45	-35.61	0.06	0.14	-35.00	-10.02	-44.69	-15.61	-36.83
1042	4	0.12	0.44	-33.82	-0.55	2.32	-27.76	-5.28	17.77	2.40	-32.[illegible]
1043	1	0.10	0.13	-33.34	1.76	5.21	9.86	-5.78	-73.68	-49.73	-84.[illegible]
1043	2	0.43	0.14	-32.73	3.00	4.07	14.46	-3.93	-77.50	-116.74	-97.08
1043	3	0.27	0.53	-34.84	0.90	-1.34	-41.47	-13.18	-128.09	-49.09	-69.75
1043	4	0.00	0.48	-35.67	0.38	1.05	-39.93	-11.15	-85.80	-14.65	-43.34
1044	1	0.06	0.16	-31.22	2.58	5.32	21.07	0.03	-87.05	-162.84	-108.31
1044	2	0.39	0.18	-29.05	2.83	3.66	18.86	9.79	-70.76	-270.41	-128.40
1044	3	0.14	0.66	-31.13	2.29	-2.32	-34.85	-18.47	-184.63	-138.76	-138.77
1044	4	-0.11	0.59	-33.71	1.92	-0.09	-41.62	-14.31	-162.92	-73.19	-89.45
1045	1	0.36	0.12	-2.78	-26.63	1.15	0.73	1.40	-519.23	75.22	-48.97
1045	2	0.90	0.10	-2.54	-24.93	2.61	4.08	-1.11	-465.87	38.97	16.54
1045	3	1.21	0.37	-1.60	-24.72	4.14	-0.97	1.53	-430.75	0.75	49.58
1045	4	0.76	0.46	-1.18	-25.01	2.17	-1.51	2.86	-387.93	10.06	22.71
1046	1	0.30	0.09	-2.21	-23.15	3.83	2.66	4.64	-474.62	1.90	39.73
1046	2	0.85	0.07	-2.59	-19.46	5.01	5.54	2.63	-523.93	-55.01	47.16
1046	3	1.01	0.27	-2.87	-17.55	7.06	6.23	5.59	-576.71	-84.10	88.26
1046	4	0.54	0.32	-0.97	-22.35	5.16	3.84	-0.78	-498.84	-38.38	62.27
1047	1	0.25	0.07	-4.11	-15.38	4.88	5.01	6.80	-587.51	-97.25	68.91
1047	2	0.80	0.06	-5.62	-10.98	2.03	-2.55	9.66	-617.59	-107.23	85.31
1047	3	0.83	0.22	-6.95	-7.68	2.42	-1.39	10.17	-695.12	-102.44	91.30
1047	4	0.35	0.24	-4.76	-11.77	6.31	3.97	8.55	-646.81	-104.86	102.15
1048	1	0.27	0.16	-3.62	-25.02	12.43	15.31	-7.05	-358.97	-7.73	-21.46
1048	2	0.66	0.13	-4.49	-20.03	13.76	19.26	0.08	-473.46	-26.38	-15.28
1048	3	0.89	0.47	-8.95	-12.11	12.31	-42.44	17.90	-518.16	-57.10	126.14
1048	4	0.57	0.59	-6.34	-18.62	13.88	-30.88	22.44	-352.97	-62.86	111.87
1049	1	0.24	0.10	-4.28	-18.48	12.87	16.11	8.95	-531.17	-46.51	44.67
1049	2	0.65	0.08	-6.77	-10.74	10.87	4.49	7.55	-651.25	-81.76	53.18
1049	3	0.78	0.30	-9.64	-3.31	6.92	-40.92	12.73	-828.69	-65.03	139.33
1049	4	0.44	0.37	-7.83	-8.95	10.32	-43.46	17.52	-619.20	-61.22	184.94
1050	1	0.20	0.07	-6.89	-7.94	7.33	2.06	13.25	-732.53	-95.14	102.29
1050	2	0.62	0.06	-8.54	-4.31	2.00	-2.22	10.21	-782.09	-74.64	48.96
1050	3	0.64	0.23	-9.12	-0.63	0.44	-8.72	4.78	-929.74	-25.10	18.94
1050	4	0.29	0.25	-8.81	-3.28	4.93	-31.08	11.84	-939.76	-55.72	154.62
1051	1	0.20	0.06	-5.85	-10.94	-1.95	1.57	9.81	-594.28	-84.51	77.28
1051	2	0.75	0.07	-4.77	-15.22	-4.83	-5.17	7.11	-514.80	-44.31	58.80
1051	3	0.65	0.24	-5.36	-11.60	-6.21	-4.27	8.24	-546.97	-41.57	18.52
1051	4	0.17	0.22	-7.17	-7.63	-2.31	0.46	10.51	-655.89	-76.45	48.63
052	1	0.15	0.07	-3.42	-19.26	-4.88	-5.78	3.26	-424.29	-37.42	36.35
1052	2	0.70	0.09	-3.09	-22.88	-3.40	-2.41	5.37	-345.52	-35.88	-27.31
1052	3	0.46	0.32	-1.68	-22.05	-4.90	-3.76	-0.01	-365.93	-14.62	-32.31
1052	4	-0.01	0.27	-3.57	-17.33	-6.94	-6.49	6.27	-447.91	-28.89	8.09
1053	1	0.10	0.10	-3.31	-24.52	-1.94	-3.85	-0.33	-386.78	-16.82	-59.76
1053	2	0.64	0.12	-3.24	-26.09	-0.27	-0.04	1.68	-366.05	-47.60	-42.06
1053	3	0.24	0.46	-1.68	-24.58	-1.41	1.48	3.11	-398.41	-36.17	-47.51
1053	4	-0.21	0.37	-2.25	-24.37	-3.65	1.04	2.22	-326.41	-8.61	-43.60
1054	1	0.16	0.06	-8.72	-4.30	-1.66	1.10	10.25	-716.98	-70.17	60.47
1054	2	0.58	0.07	-7.42	-7.81	-7.17	-2.57	12.42	-579.53	-40.92	5.63
1054	3	0.49	0.25	-9.30	-3.25	-4.87	29.05	11.33	-649.38	-24.80	-85.74
1054	4	0.14	0.23	-9.27	-0.65	-0.37	6.07	5.03	-857.53	-31.47	20.74
1055	1	0.12	0.08	-7.37	-10.58	-10.62	-4.22	7.71	-458.90	-37.92	35.38
1055	2	0.53	0.10	-4.80	-18.20	-12.46	-15.66	9.67	-356.95	-1.61	10.66
1055	3	0.33	0.37	-8.22	-8.79	-10.18	42.26	17.14	-324.97	-27.65	-71.64
1055	4	-0.01	0.30	-10.18	-3.23	-6.84	39.20	12.27	-528.07	-28.20	-57.92
1056	1	0.07	0.13	-4.76	-19.89	-13.19	-18.48	0.71	-307.84	-1.14	26.32
1056	2	0.46	0.16	-3.66	-24.97	-11.72	-14.54	-6.40	-266.92	1.37	10.63
1056	3	0.16	0.59	-6.22	-18.46	-13.50	30.52	23.02	-129.73	0.65	-22.32
1056	4	-0.16	0.47	-9.11	-11.94	-12.04	41.54	18.03	-291.04	-0.90	-36.24
1057	1	0.29	0.16	-26.05	-2.13	-0.74	-1.08	2.36	-50.59	-348.51	36.62

1057	2	0.74	0.14	-27.82	-0.81	-0.84	-2.63	-0.92	-76.59	-261.48	16.03
1057	3	1.00	0.53	-29.00	0.30	1.78	6.77	0.03	-65.39	-181.60	33.95
1057	4	0.63	0.58	-27.24	-2.31	1.98	8.11	-4.18	-45.62	-265.18	41.93
1058	1	0.25	0.13	-29.43	0.10	-0.84	-1.81	-1.25	-106.66	-194.46	3.93
1058	2	0.69	0.12	-31.47	1.59	-0.98	-1.49	0.15	-138.17	-28.74	-20.94
1058	3	0.83	0.47	-32.51	2.28	-0.16	2.63	-1.73	-101.71	-28.02	5.19
1058	4	0.45	0.50	-31.17	1.47	1.39	2.11	2.66	-86.03	-121.60	16.43
1059	1	0.20	0.12	-32.07	2.01	-1.28	0.45	-0.36	-93.65	-29.61	35.30
1059	2	0.65	0.12	-30.87	1.70	-1.62	2.97	-0.52	-137.23	-24.86	-26.89
1059	3	0.68	0.44	-31.26	1.50	-2.32	5.46	-2.55	-107.18	-17.20	-11.56
1059	4	0.29	0.45	-32.96	2.23	-1.28	1.96	-3.12	-105.93	-8.20	7.38
1060	1	0.22	0.18	-28.44	2.33	-4.20	-18.56	10.10	-67.30	-181.55	83.50
1060	2	0.54	0.16	-30.66	2.26	-6.01	-21.42	0.45	-75.04	-108.48	49.95
1060	3	0.72	0.59	-33.20	1.97	-0.38	42.99	-14.16	-8.90	-18.59	12.89
1060	4	0.46	0.66	-30.62	2.21	1.98	35.60	-18.29	-24.14	-61.21	44.45
1061	1	0.19	0.14	-32.35	2.88	-4.93	-15.03	-3.33	-71.20	-50.77	12.86
1061	2	0.52	0.13	-33.14	1.68	-6.23	-10.92	-5.33	-81.18	-15.75	4.66
1061	3	0.62	0.48	-35.44	0.49	-1.68	42.57	-11.14	-6.84	5.14	-6.27
1061	4	0.35	0.53	-34.46	1.05	0.79	43.34	-13.13	-6.18	-8.05	4.31
1062	1	0.16	0.12	-33.29	1.58	-4.39	-4.97	-6.92	-81.17	1.09	-6.71
1062	2	0.50	0.12	-31.43	0.12	-5.06	1.30	-6.63	-67.86	-1.94	-6.56
1062	3	0.51	0.44	-34.10	-0.56	-3.20	31.28	-5.32	-24.72	0.19	-3.20
1062	4	0.23	0.45	-35.65	0.18	-0.79	38.16	-10.12	-13.13	-0.73	-2.42
1063	1	0.17	0.12	-28.27	1.00	-1.79	6.16	-1.10	-136.00	-21.96	-17.83
1063	2	0.62	0.12	-23.29	-0.21	-1.74	7.83	0.66	-125.26	-84.23	-23.63
1063	3	0.53	0.45	-24.44	-0.26	-3.05	8.73	0.00	-108.81	-59.41	-32.21
1063	4	0.14	0.44	-28.86	0.66	-2.87	6.82	-4.01	-109.89	-9.30	-15.38
1064	1	0.12	0.12	-19.16	-0.95	-1.53	8.65	-0.05	-102.68	-153.86	-24.39
1064	2	0.58	0.13	-14.01	-1.74	-1.15	7.75	1.94	-60.10	-286.59	-22.60
1064	3	0.37	0.50	-15.83	-1.38	-2.65	7.55	3.20	-64.59	-220.82	-60.64
1064	4	-0.02	0.47	-20.57	-0.84	-2.98	9.54	-1.07	-94.47	-114.78	-45.97
1065	1	0.08	0.14	-19.84	-1.89	-0.81	7.22	0.81	-27.43	-379.53	-15.53
1065	2	0.53	0.16	-7.52	-1.77	-0.36	5.83	4.51	7.06	-492.29	-17.52
1065	3	0.19	0.59	-9.06	-1.70	-1.50	4.83	1.71	7.36	-421.61	-48.94
1065	4	-0.18	0.53	-12.44	-1.49	-2.16	7.11	2.13	-34.05	-314.19	-58.82
1066	1	0.13	0.12	-29.50	-0.03	-2.94	5.49	-7.33	-86.37	-12.07	-11.93
1066	2	0.47	0.12	-25.38	-0.80	-3.04	9.83	-3.70	-88.57	-29.62	-24.73
1066	3	0.39	0.45	-28.09	-1.20	-4.01	15.18	-1.48	-33.83	-8.20	-11.45
1066	4	0.12	0.44	-32.41	-0.61	-2.23	24.01	-5.85	-24.55	-0.22	-0.76
1067	1	0.10	0.13	-22.16	-0.76	-1.27	12.28	-3.59	-100.85	-61.38	-44.35
1067	2	0.43	0.14	-17.44	-0.82	-1.17	13.69	0.15	-91.30	-141.14	-84.57
1067	3	0.27	0.53	-19.78	-1.24	-3.68	4.89	0.21	-67.38	-47.20	-49.98
1067	4	0.00	0.48	-25.08	-1.00	-2.98	10.41	-3.06	-42.82	-10.04	-17.99
1068	1	0.06	0.16	-14.48	-0.65	0.06	14.63	0.48	-96.81	-201.81	-127.03
1068	2	0.39	0.18	-10.56	-0.27	0.09	13.19	4.99	-70.65	-312.94	-160.60
1068	3	0.14	0.67	-12.18	-0.55	-2.20	2.39	0.14	-141.37	-146.79	-139.57
1068	4	-0.12	0.59	-16.74	-0.72	-2.41	3.60	-1.01	-102.10	-70.42	-80.29
1069	1	0.36	0.13	-1.43	-6.19	0.32	2.88	-6.12	-584.14	47.15	51.70
1069	2	0.90	0.10	-0.20	-4.37	0.27	4.78	-6.32	-451.38	-5.73	43.01
1069	3	1.21	0.38	0.11	-5.17	0.79	4.89	-6.31	-483.90	7.07	72.66
1069	4	0.77	0.47	-0.90	-6.82	0.89	3.20	-5.68	-457.27	12.92	74.80
1070	1	0.30	0.09	0.97	-2.97	0.19	4.61	-5.45	-550.14	3.13	31.48
1070	2	0.85	0.08	2.75	-1.31	0.04	4.97	-4.87	-611.11	-50.63	33.39
1070	3	1.01	0.28	3.01	-1.68	0.32	5.58	-3.14	-660.36	-72.54	72.70
1070	4	0.54	0.33	1.51	-3.51	0.45	4.87	-6.69	-573.38	-32.53	56.52
1071	1	0.25	0.07	4.05	-0.36	-0.06	3.45	-3.48	-668.52	-95.57	39.34
1071	2	0.80	0.06	4.69	0.32	-0.13	-0.21	-2.22	-723.03	-119.74	52.76
1071	3	0.83	0.24	4.62	0.06	-0.08	-0.44	-1.07	-817.44	-113.70	67.45
1071	4	0.35	0.25	4.15	-0.60	0.15	3.15	-2.35	-743.80	-108.11	80.[illegible]
1072	1	0.27	0.16	-1.98	-7.19	3.74	9.86	-8.34	-425.84	12.57	-22.92
1072	2	0.66	0.13	-0.42	-4.47	3.14	10.77	-4.80	-534.07	-7.77	-30.50
1072	3	0.89	0.48	-1.14	-2.69	2.63	-1.10	0.16	-546.11	-45.09	118.44
1072	4	0.57	0.60	-3.17	-5.65	4.55	1.22	-1.15	-362.77	-40.54	95.91
1073	1	0.24	0.10	1.16	-3.31	2.23	9.43	-2.90	-593.89	-34.66	31.00
1073	2	0.65	0.08	2.81	-1.12	1.36	6.01	-1.36	-729.37	-82.09	29.35
1073	3	0.78	0.31	3.03	-0.17	0.40	-2.86	1.49	-921.94	-60.93	140.07
1073	4	0.44	0.38	0.81	-1.60	1.35	-2.71	-0.05	-668.03	-76.36	106.23
1074	1	0.20	0.07	4.11	-0.43	0.48	3.08	-0.24	-838.46	-98.06	86.02
1074	2	0.62	0.06	4.56	0.09	0.11	-0.74	-0.05	-920.43	-91.43	28.39
1074	3	0.63	0.24	4.82	0.12	-0.03	-2.30	0.24	-1112.07	-32.93	14.06
1074	4	0.29	0.26	4.25	-0.26	-0.08	-2.89	0.73	-1017.02	-57.79	165.36
1075	1	0.20	0.06	4.02	0.18	-0.09	-2.71	-1.65	-711.64	-95.89	57.01
1075	2	0.75	0.07	2.12	-0.79	-0.22	-4.96	-2.49	-644.65	-10.49	59.42
1075	3	0.65	0.25	2.43	-0.74	-0.42	-4.66	-2.38	-686.97	-33.11	20.50
1075	4	0.17	0.24	4.00	0.00	-0.10	-2.56	-0.28	-793.33	-94.74	28.29
1076	1	0.15	0.08	0.48	-1.94	-0.31	-5.55	-2.35	-585.09	49.92	52.00
1076	2	0.70	0.09	-1.20	-3.55	-0.24	-3.53	-3.18	-532.57	97.47	17.29
1076	3	0.46	0.33	-0.56	-3.70	-0.68	-4.63	-4.45	-515.88	92.05	1.27
1076	4	-0.01	0.28	0.90	-1.97	-0.65	-6.49	-1.59	-591.28	35.60	25.26
1077	1	0.10	0.10	-1.97	-4.67	-0.13	-3.15	-3.66	-509.96	86.93	-18.90
1077	2	0.64	0.13	-2.27	-5.73	0.09	-0.27	-4.48	-481.94	51.29	-47.33
1077	3	0.23	0.47	-2.13	-6.51	-0.48	-2.20	-4.50	-442.94	94.68	-76.25
1077	4	-0.21	0.38	-1.66	-5.21	-0.74	-3.81	-4.20	-468.67	117.26	-13.27
1078	1	0.16	0.06	3.97	0.06	-0.22	-2.34	0.25	-877.31	-86.67	46.50
1078	2	0.58	0.07	2.46	-0.55	-0.62	-4.80	-0.53	-735.12	-43.65	3.85
1078	3	0.49	0.26	2.62	-0.31	-0.11	0.00	-0.10	-852.54	-30.46	-112.35
1078	4	0.14	0.24	4.32	0.10	-0.02	-1.27	0.79	-1068.17	-39.81	12.42
1079	1	0.12	0.08	0.76	-1.18	-1.40	-6.37	-0.68	-591.04	-14.37	69.31
1079	2	0.53	0.10	-0.84	-3.22	-2.11	-8.29	-1.53	-464.11	71.32	71.00
1079	3	0.32	0.38	-1.08	-1.58	-1.64	0.99	-0.59	-408.87	-5.34	-62.66
1079	4	-0.01	0.31	1.03	-0.20	-0.62	-0.09	1.02	-695.97	-24.07	-64.18
1080	1	0.07	0.13	-2.03	-4.41	-2.69	-8.86	-3.41	-385.91	81.71	116.25
1080	2	0.46	0.16	-2.97	-7.00	-3.06	-7.32	-6.62	-331.98	96.64	97.77
1080	3	0.16	0.60	-4.05	-5.44	-4.36	-1.67	-0.50	-100.17	69.89	44.75
1080	4	-0.16	0.48	-2.70	-2.60	-2.66	-0.06	0.24	-262.57	40.12	4.88
1081	1	0.13	0.21	-4.89	-1.38	0.21	4.77	4.90	-11.88	-530.50	-56.22
1081	2	0.47	0.21	-3.50	-1.10	0.66	4.95	3.24	68.19	-181.25	-219.66
1081	3	0.47	0.79	-1.52	0.31	0.63	5.53	1.73	-39.60	-488.46	11.17
1081	4	0.13	0.79	-3.38	-0.14	0.26	6.16	4.26	5.34	-501.88	-35.76
1082	1	0.09	0.21	-2.98	-1.05	1.24	-0.02	6.74	41.91	-172.19	270.77
1082	2	0.32	0.21	-2.39	-1.31	0.87	-1.01	-6.24	-30.77	-567.73	127.59
1082	3	0.32	0.79	-0.18	0.45	0.76	1.05	-2.66	-23.15	-486.29	62.68
1082	4	0.09	0.79	-0.75	0.35	1.08	1.55	6.96	-55.32	-464.91	24.01
1083	1	0.09	0.21	0.95	1.86	1.17	6.73	11.14	20.96	-656.43	-40.19
1083	2	0.33	0.21	2.03	2.41	1.17	8.46	-6.89	17.53	-666.01	-71.62
1083	3	0.33	0.79	0.18	0.48	1.52	-1.01	-22.71	7.20	-495.26	-68.96
1083	4	0.09	0.79	0.47	0.72	1.53	-1.82	7.48	6.23	-585.94	-60.01
1084	1	0.09	0.21	-0.10	-1.92	1.19	3.68	7.52	0.61	-656.64	24.09
1084	2	0.35	0.21	0.55	-1.42	1.21	3.09	-11.26	-4.35	-671.85	4.71
1084	3	0.35	0.79	-0.44	-1.33	1.66	0.92	-10.42	6.13	-632.65	13.11
1084	4	0.09	0.79	-0.41	-1.59	1.67	1.71	14.07	5.88	-617.99	33.50
1085	1	0.09	0.21	-0.50	1.02	1.52	0.23	2.49	-9.39	-[illegible]	14.35
1085	2	0.33	0.21	-0.81	0.92	0.87	-0.18	-5.84	-8.13	-[illegible]	4.36
1085	3	0.33	0.79	0.38	1.44	1.16	0.29	-10.12	2.25	-642.22	-1.82
1085	4	0.09	0.79	0.49	1.27	1.92	0.59	4.79	3.65	-654.[illegible]	19.[illegible]
1086	1	0.23	0.21	-0.45	-0.72	1.44	-2.38	-0.46	-10.75	-675.11	-24.31

1086	2	0.86	0.21	-1.65	-0.54	1.18	-0.97	-7.78	-10.86	-686.04	-30.48
1086	3	0.86	0.79	-1.59	-1.28	1.18	-0.96	-0.06	-2.18	-670.11	-31.84
1086	4	0.23	0.79	-1.14	-1.25	1.82	-1.55	0.83	-0.39	-662.15	-22.87
1087	1	0.30	0.17	-1.44	0.21	0.85	1.70	2.40	-11.12	-689.67	-25.87
1087	2	1.10	0.05	-5.68	1.22	1.44	-8.80	8.28	-10.98	-642.17	-21.86
1087	3	1.10	0.63	-2.22	0.23	1.80	-0.96	-6.11	-9.53	-723.56	2.32
1087	4	0.30	0.75	-2.14	-0.65	1.69	1.39	0.11	-7.18	-696.45	-28.25
1088	1	0.18	0.21	-25.98	-5.06	-0.57	3.67	-0.13	-55.47	-450.51	75.33
1088	2	0.67	0.21	-25.33	-3.90	-0.44	2.49	0.84	-47.76	-400.44	51.96
1088	3	0.67	0.79	-24.85	-4.16	0.93	2.88	0.33	-79.01	-410.86	1.78
1088	4	0.18	0.79	-25.64	-5.57	0.19	5.38	-0.21	-123.93	-394.44	24.53
1089	1	0.21	0.21	-27.58	-6.81	-1.72	1.58	-12.55	11.68	-767.78	38.34
1089	2	0.78	0.21	-26.63	-6.34	-2.02	3.02	-2.03	-26.79	-732.67	91.17
1089	3	0.78	0.79	-25.87	-9.11	-0.58	4.58	-0.85	-139.12	-661.66	64.07
1089	4	0.21	0.79	-30.13	-10.95	-0.59	11.64	-9.37	-274.90	-896.14	183.96
1090	1	0.21	0.34	1.19	5.13	-0.70	-1.17	15.43	-315.19	-3.70	-36.60
1090	2	0.79	0.34	2.02	4.22	-0.88	-0.83	13.63	-315.53	-10.09	-30.39
1090	3	0.79	1.28	6.66	23.57	-0.68	24.90	25.15	-387.36	9.16	-25.37
1090	4	0.21	1.28	2.78	21.64	-0.48	-7.06	15.94	-344.16	-0.56	-19.16
1091	1	0.21	0.29	-3.28	-17.15	-0.30	0.50	15.36	-322.58	5.93	-25.73
1091	2	0.79	0.29	-3.12	-17.35	-0.10	-0.87	14.44	-318.36	4.67	-23.20
1091	3	0.79	1.09	-0.23	-4.94	-0.07	-2.47	19.74	-313.33	1.16	-29.32
1091	4	0.21	1.09	-0.42	-5.26	-0.27	5.87	16.34	-327.52	1.36	-28.16
1092	1	0.21	0.32	-5.86	-28.45	0.01	0.51	5.07	-332.89	9.79	-13.38
1092	2	0.79	0.32	-5.79	-28.56	0.05	-0.54	5.14	-328.42	8.57	-12.29
1092	3	0.79	1.19	-4.58	-23.54	0.03	0.44	6.40	-323.91	6.73	-18.03
1092	4	0.21	1.19	-4.78	-23.55	-0.14	-0.07	6.18	-325.62	7.82	-20.52
1093	1	0.21	0.28	-5.50	-26.56	0.21	-0.04	-4.10	-342.16	11.17	-2.01
1093	2	0.79	0.28	-5.46	-26.62	0.18	-0.02	-4.12	-337.70	10.13	-1.95
1093	3	0.79	1.06	-5.99	-29.29	0.14	-0.38	-2.72	-332.25	9.56	-7.99
1093	4	0.21	1.06	-6.03	-29.22	0.12	0.29	-2.73	-337.47	10.70	-8.36
1094	1	0.30	0.21	-2.23	-1.37	2.05	-3.49	3.82	0.54	-697.15	-27.39
1094	2	1.10	0.21	-1.17	-1.42	1.32	7.48	-6.45	-4.92	-740.36	-2.50
1094	3	1.10	0.79	-0.67	-2.15	1.70	-0.26	-4.56	-2.27	-752.76	-5.61
1094	4	0.30	0.79	-1.87	-1.76	1.65	0.20	3.86	2.34	-704.43	-19.42
1095	1	0.23	0.21	-1.52	-1.07	1.94	0.61	1.77	6.56	-649.18	-20.61
1095	2	0.86	0.21	-1.55	-1.01	1.26	0.96	-4.91	0.37	-682.38	-25.14
1095	3	0.86	0.79	-1.88	-1.21	1.06	-0.31	-4.10	9.80	-682.14	-23.07
1095	4	0.23	0.79	-2.08	-0.86	1.67	-0.32	1.11	14.08	-638.22	-17.21
1096	1	0.09	0.21	1.56	1.03	2.04	-2.09	1.76	7.82	-632.01	11.16
1096	2	0.33	0.21	1.39	0.93	1.28	-0.54	-11.54	7.36	-617.91	-1.82
1096	3	0.33	0.79	2.08	0.17	0.99	-2.44	-10.33	12.76	-585.33	1.47
1096	4	0.09	0.79	2.35	0.28	1.76	-1.39	0.96	14.19	-612.40	9.67
1097	1	0.09	0.21	-0.05	0.23	1.63	-4.13	16.37	3.29	-567.29	35.34
1097	2	0.35	0.21	-0.87	-0.14	1.73	-4.84	-9.17	3.35	-601.50	14.93
1097	3	0.35	0.79	-1.18	1.52	1.21	-8.45	-7.07	6.07	-568.06	5.44
1097	4	0.09	0.79	0.72	1.90	1.16	-9.34	9.72	-1.31	-544.65	15.08
1098	1	0.09	0.21	-0.73	-1.35	1.26	-4.71	7.18	-8.63	-550.78	-40.88
1098	2	0.33	0.21	-1.66	-1.59	1.19	-6.17	-10.43	-26.82	-543.54	-37.89
1098	3	0.33	0.79	-3.32	-3.03	0.98	-5.07	-13.36	-14.42	-522.65	-36.20
1098	4	0.09	0.79	-1.90	-2.94	1.00	-4.92	5.80	-5.51	-530.47	-23.57
1099	1	0.09	0.21	0.93	1.56	1.12	4.40	6.82	-30.29	-500.75	17.04
1099	2	0.32	0.21	1.62	1.85	0.70	5.19	-5.96	3.39	-514.34	70.19
1099	3	0.32	0.79	3.45	3.19	0.61	2.73	-2.39	-29.92	-516.06	37.88
1099	4	0.09	0.79	2.49	3.13	0.92	3.47	6.28	-39.63	-533.14	31.98
1100	1	0.13	0.21	-2.16	0.92	0.33	5.44	5.58	15.44	-515.41	-36.77
1100	2	0.47	0.21	-0.18	1.30	0.69	5.29	2.81	-31.46	-498.82	43.30
1100	3	0.47	0.79	1.42	3.14	0.59	5.42	2.54	-44.21	-544.39	25.11
1100	4	0.13	0.79	-0.51	2.79	0.36	5.21	5.15	-48.03	-569.75	-8.29
1101	1	0.18	0.21	-24.62	-5.57	0.77	4.82	3.14	-127.53	-388.02	-32.14
1101	2	0.67	0.21	-23.39	-4.19	2.11	3.46	5.39	-63.75	-363.03	-12.41
1101	3	0.67	0.79	-20.32	-3.88	3.16	3.50	9.44	-54.51	-435.89	-54.85
1101	4	0.18	0.79	-22.62	-4.94	1.43	6.23	2.40	-94.22	-448.54	-113.09
1102	1	0.21	0.21	-31.30	-12.84	0.67	19.72	4.34	-404.04	-838.96	-45.97
1102	2	0.78	0.21	-26.21	-9.56	1.01	7.57	-0.58	-255.06	-623.74	-31.35
1102	3	0.78	0.79	-25.19	-7.11	2.20	6.66	5.46	-146.96	-651.49	-156.97
1102	4	0.21	0.79	-28.34	-8.47	1.15	9.18	17.68	-173.95	-695.22	-155.78
1103	1	0.21	0.34	2.74	4.39	0.19	1.57	19.67	-316.51	-2.69	-27.27
1103	2	0.79	0.34	2.06	5.30	1.09	1.30	19.28	-306.37	8.54	-26.24
1103	3	0.79	1.28	5.02	22.37	0.73	-10.72	20.22	-318.00	8.64	-72.97
1103	4	0.21	1.28	10.03	24.35	0.41	-10.94	32.48	-370.58	18.36	-54.53
1104	1	0.21	0.29	-3.23	-17.51	0.05	-0.21	14.00	-315.53	4.32	-28.21
1104	2	0.79	0.29	-3.34	-17.34	0.30	0.05	15.40	-312.34	6.71	-18.76
1104	3	0.79	1.09	-0.42	-5.51	0.27	-3.95	13.91	-316.56	5.12	-25.44
1104	4	0.21	1.09	-0.70	-5.20	-0.08	1.84	15.11	-311.31	1.40	-25.41
1105	1	0.21	0.32	-5.76	-28.56	0.12	0.34	4.98	-325.46	8.44	-11.65
1105	2	0.79	0.32	-5.79	-28.57	0.17	-0.56	4.80	-321.57	8.69	-10.94
1105	3	0.79	1.19	-4.85	-23.66	0.12	0.05	6.62	-315.28	7.74	-16.39
1105	4	0.21	1.19	-4.59	-23.54	0.11	-0.34	7.33	-320.78	6.97	-17.81
1106	1	0.21	0.28	-5.44	-26.65	0.18	-0.07	-4.12	-334.52	9.66	-1.76
1106	2	0.79	0.28	-5.44	-26.68	0.20	0.02	-4.08	-330.38	9.39	-1.69
1106	3	0.79	1.06	-5.94	-29.35	0.14	-0.55	-2.67	-325.73	9.13	-6.99
1106	4	0.21	1.06	-5.98	-29.32	0.15	0.53	-2.78	-329.26	9.11	-7.24
1107	1	0.30	0.21	-1.51	-1.80	1.31	1.49	0.79	5.08	-711.06	-13.45
1107	2	1.10	0.21	-0.32	-2.33	0.94	0.72	-2.80	0.86	-759.57	-5.86
1107	3	1.10	0.79	-0.37	-2.42	0.60	0.39	-1.34	1.32	-766.71	-3.36
1107	4	0.30	0.79	-1.41	-1.82	0.77	0.28	1.19	6.95	-714.76	-8.43
1108	1	0.23	0.21	-2.35	-0.69	1.13	-0.17	1.09	16.76	-632.95	-14.33
1108	2	0.86	0.21	-2.08	-1.36	0.94	-1.52	-0.05	12.95	-679.95	-18.46
1108	3	0.86	0.79	-1.91	-1.28	0.46	-0.24	-0.44	11.70	-681.06	-11.20
1108	4	0.23	0.79	-2.24	-0.54	0.35	-0.77	0.88	17.33	-631.10	-13.29
1109	1	0.09	0.21	2.61	0.01	1.06	-1.99	1.27	18.35	-602.37	13.29
1109	2	0.33	0.21	2.25	-0.31	0.59	-3.71	-5.07	15.98	-574.19	7.66
1109	3	0.33	0.79	2.11	-0.49	0.01	-3.23	-0.94	15.90	-569.06	14.42
1109	4	0.09	0.79	2.41	-0.27	0.06	-2.19	-1.14	17.53	-598.93	12.94
1110	1	0.09	0.21	0.95	2.60	0.75	-10.01	8.45	2.38	-525.69	3.87
1110	2	0.35	0.21	-1.34	2.13	0.75	-9.08	-3.97	10.33	-554.45	-2.94
1110	3	0.35	0.79	-1.11	2.57	-0.16	-10.15	0.99	8.20	-549.90	-15.37
1110	4	0.09	0.79	1.12	3.18	-0.15	-11.18	-1.77	8.52	-523.11	-19.56
1111	1	0.09	0.21	-2.48	-4.17	0.67	-9.45	2.56	-17.30	-515.62	-7.85
1111	2	0.33	0.21	-4.23	-4.63	0.64	-9.69	-7.49	-25.58	-509.62	-11.97
1111	3	0.33	0.79	-4.56	-5.13	-0.16	-10.22	1.53	-27.48	-511.23	25.39
1111	4	0.09	0.79	-2.64	-4.79	-0.16	-8.54	-0.51	-12.35	-513.35	21.65
1112	1	0.09	0.21	3.53	4.46	0.56	3.72	4.52	-47.43	-540.47	18.92
1112	2	0.32	0.21	4.64	4.71	0.36	4.19	-1.32	-42.57	-518.49	7.03
1112	3	0.32	0.79	4.92	5.23	-0.02	4.48	-0.24	-43.34	-521.58	-27.85
1112	4	0.09	0.79	3.84	5.03	0.01	3.26	-0.96	-63.89	-549.04	-32.55
1113	1	0.13	0.21	0.48	4.09	0.25	4.52	3.49	-90.38	-622.93	-9.23
1113	2	0.47	0.21	2.28	4.34	0.39	5.96	2.13	-63.33	-563.00	0.46
1113	3	0.47	0.79	2.62	4.99	0.11	5.75	-0.59	-61.82	-580.80	-39.29
1113	4	0.13	0.79	0.89	4.75	0.14	3.62	0.06	-108.99	-642.36	-42.69
1114	1	0.18	0.21	-20.85	-4.19	1.41	4.73	2.09	-67.93	-454.54	-130.16
1114	2	0.67	0.21	-17.68	-4.35	3.15	7.32	5.19	-54.71	-485.77	-84.10
1114	3	0.67	0.79	-14.60	-4.97	1.19	7.43	3.14	-82.18	-542.00	-99.47
1114	4	0.18	0.79	-19.48	-3.73	0.44	5.10	3.30	-61.23	-471.42	-114.90
1115	1	0.21	0.21	-25.31	-2.92	1.47	-2.52	12.74	-12.94	-610.77	-94.73

1115	2	0.78	0.21	-23.01	-4.08	1.85	4.41	4.68	-46.56	-714.20	-167.96
1115	3	0.78	0.79	-21.93	-1.27	0.60	3.83	-0.55	-20.81	-704.26	-109.72
1115	4	0.21	0.79	-24.95	-0.74	0.72	-0.06	2.05	19.01	-559.05	-72.43
1116	1	0.21	0.34	0.73	5.34	0.89	-2.66	17.14	-308.96	12.41	-27.91
1116	2	0.79	0.34	0.01	5.27	0.45	-1.40	15.69	-299.23	18.25	-32.98
1116	3	0.79	1.28	2.31	20.43	0.11	-0.03	14.77	-256.24	11.65	-51.55
1116	4	0.21	1.28	3.19	21.29	0.27	-4.46	11.16	-280.08	8.00	-67.81
1117	1	0.21	0.29	-3.51	-17.17	0.37	0.67	14.13	-311.39	9.09	-18.77
1117	2	0.79	0.29	-3.78	-17.28	0.24	-0.75	13.90	-307.65	12.02	-20.34
1117	3	0.79	1.09	-1.67	-5.33	0.31	0.76	16.09	-300.11	14.22	-25.70
1117	4	0.21	1.09	-1.13	-5.52	0.42	-0.23	16.99	-303.97	11.02	-25.90
1118	1	0.21	0.32	-5.84	-28.56	0.16	0.68	5.03	-318.96	9.40	-10.71
1118	2	0.79	0.32	-5.87	-28.59	0.15	-0.26	5.17	-315.29	9.90	-10.86
1118	3	0.79	1.19	-4.85	-23.50	0.22	-0.91	6.39	-310.12	10.76	-16.29
1118	4	0.21	1.19	-4.77	-23.62	0.17	-0.34	6.35	-313.75	8.84	-15.90
1119	1	0.21	0.28	-5.44	-26.69	0.20	-0.03	-4.25	-327.60	9.38	-1.66
1119	2	0.79	0.28	-5.46	-26.70	0.17	-0.02	-4.13	-323.75	9.59	-1.65
1119	3	0.79	1.06	-6.01	-29.39	0.15	-0.44	-2.86	-318.85	9.72	-6.80
1119	4	0.21	1.06	-6.00	-29.37	0.14	0.11	-2.70	-322.64	9.39	-6.86
1120	1	0.30	0.21	-1.30	-1.74	0.36	0.03	0.71	5.26	-717.74	-5.57
1120	2	1.10	0.21	-0.35	-2.30	0.23	0.52	-0.40	1.31	-769.23	-0.84
'120	3	1.10	0.79	-0.31	-2.05	-0.11	0.42	0.90	0.28	-771.46	0.50
1120	4	0.30	0.79	-1.12	-1.48	-0.16	0.53	0.52	-0.68	-719.11	-4.04
1121	1	0.23	0.21	-1.84	-0.47	-0.25	-1.34	1.00	12.83	-633.39	-10.49
1121	2	0.86	0.21	-1.69	-1.17	0.14	-0.21	0.81	8.65	-682.14	-6.86
1121	3	0.86	0.79	-1.38	-1.00	-0.29	-1.71	0.87	2.93	-684.19	-2.35
1121	4	0.23	0.79	-0.95	-0.44	-0.81	-1.12	0.70	2.16	-640.25	-9.41
1122	1	0.09	0.21	1.80	-0.26	-0.66	-1.98	-1.02	12.70	-603.87	13.99
1122	2	0.33	0.21	1.44	-0.49	-0.44	-3.31	4.12	11.51	-576.74	18.68
1122	3	0.33	0.79	0.17	-0.26	-0.82	-2.84	7.12	2.84	-595.19	22.43
1122	4	0.09	0.79	0.69	-0.03	-1.31	-2.62	-2.18	3.24	-614.73	14.39
1123	1	0.09	0.21	1.17	2.60	-0.82	-8.75	-7.59	0.30	-535.94	-33.07
1123	2	0.35	0.21	-0.61	2.29	-0.81	-7.68	4.75	6.29	-559.18	-24.40
1123	3	0.35	0.79	0.35	1.17	-1.34	-3.80	7.77	-0.87	-582.87	-30.66
1123	4	0.09	0.79	1.13	1.45	-1.32	-3.68	-12.93	-2.27	-566.12	-44.39
1124	1	0.09	0.21	-2.30	-4.05	-0.72	-6.62	-3.49	-10.90	-527.51	41.91
1124	2	0.33	0.21	-3.83	-4.37	-0.73	-7.85	9.49	-24.23	-526.97	53.73
1124	3	0.33	0.79	-1.88	-2.12	-1.20	-2.09	14.81	-7.65	-558.03	70.55
1124	4	0.09	0.79	-1.62	-2.06	-1.20	-1.74	-5.79	-6.20	-559.48	56.16
1125	1	0.09	0.21	3.08	4.26	-0.48	2.91	-5.34	-51.45	-558.98	-72.11
1125	2	0.32	0.21	4.03	4.43	-0.34	3.41	0.11	-32.34	-533.62	-60.90
1125	3	0.32	0.79	1.86	2.30	-0.62	2.47	1.34	-10.57	-562.19	-81.10
1125	4	0.09	0.79	1.27	2.21	-0.82	2.07	-8.41	-10.65	-578.33	-90.57
1126	1	0.13	0.21	0.62	4.05	-0.01	2.97	-3.70	-83.34	-657.03	-73.77
1126	2	0.47	0.21	2.10	4.25	-0.13	4.70	-2.88	-65.61	-588.10	-71.50
1126	3	0.47	0.79	0.57	2.18	-0.36	3.08	-4.14	-13.81	-590.09	-93.22
1126	4	0.13	0.79	-0.39	2.07	-0.06	2.33	-5.72	-9.14	-618.26	-82.22
1127	1	0.18	0.21	-19.40	-3.59	-0.49	4.59	-1.94	-67.41	-477.34	-80.39
1127	2	0.67	0.21	-14.56	-4.72	-1.19	7.53	-2.39	-100.20	-552.45	-80.50
1127	3	0.67	0.79	-17.70	-3.61	-3.14	6.89	-4.73	-81.30	-530.17	-50.07
1127	4	0.18	0.79	-20.64	-3.40	-1.33	3.59	-0.86	-46.83	-465.20	-28.45
1128	1	0.21	0.21	-25.41	-0.89	-0.61	3.97	-1.31	6.31	-537.17	-60.54
1128	2	0.78	0.21	-22.23	-0.82	-0.53	5.03	2.53	-20.86	-680.04	-62.89
1128	3	0.78	0.79	-22.98	-1.08	-1.67	5.00	0.69	-23.27	-673.06	-26.89
1128	4	0.21	0.79	-25.64	-0.97	-0.99	3.43	-4.91	8.86	-534.40	-26.00
1129	1	0.21	0.34	-0.07	5.20	0.09	0.91	16.47	-290.55	20.36	-35.20
1129	2	0.79	0.34	-0.03	4.97	-0.11	-0.38	16.11	-285.99	18.34	-35.54
1129	3	0.79	1.28	2.90	20.60	-0.04	0.36	16.71	-250.90	12.56	-35.70
1129	4	0.21	1.28	2.73	20.34	-0.04	0.20	17.35	-252.71	12.04	-44.0
1130	1	0.21	0.29	-3.90	-17.33	0.13	0.05	13.89	-304.05	13.41	-21.81
1130	2	0.79	0.29	-3.91	-17.26	0.02	-0.02	14.13	-299.63	13.16	-23.36
1130	3	0.79	1.09	-1.75	-5.27	0.00	0.65	15.45	-293.09	16.07	-29.85
1130	4	0.21	1.09	-1.79	-5.28	0.24	-1.46	14.78	-298.92	15.44	-26.66
1131	1	0.21	0.32	-5.89	-28.58	0.14	0.14	4.98	-312.38	10.20	-11.13
1131	2	0.79	0.32	-5.92	-28.59	0.10	-0.41	4.95	-308.26	10.26	-11.59
1131	3	0.79	1.19	-5.06	-23.55	0.04	-0.77	6.42	-303.54	11.47	-18.26
1131	4	0.21	1.19	-5.01	-23.48	0.15	0.72	6.63	-307.58	11.48	-17.82
1132	1	0.21	0.28	-5.47	-26.71	0.15	-0.05	-4.11	-320.90	9.76	-1.72
1132	2	0.79	0.28	-5.47	-26.74	0.15	-0.04	-4.16	-316.97	9.86	-1.79
1132	3	0.79	1.06	-6.04	-29.41	0.11	-0.33	-2.76	-311.98	10.02	-7.15
1132	4	0.21	1.06	-6.03	-29.40	0.14	0.36	-2.79	-316.08	9.92	-7.01
1133	1	0.30	0.21	-1.21	-1.31	-0.50	-0.38	-1.31	-5.44	-716.80	-1.75
1133	2	1.10	0.21	-0.50	-1.80	-0.66	-0.11	2.08	-4.08	-773.24	-2.90
1133	3	1.10	0.79	-0.76	-1.28	-0.61	4.29	3.32	-7.34	-776.15	-8.78
1133	4	0.30	0.79	-1.35	-1.01	-0.92	-3.00	-2.12	-6.42	-716.85	1.37
1134	1	0.23	0.21	-0.23	-0.44	-1.06	-2.03	0.16	-4.86	-685.91	-9.58
1134	2	0.86	0.21	-0.97	-0.77	-0.41	-1.03	2.69	-3.73	-688.83	-2.21
1134	3	0.86	0.79	-0.55	-0.55	-0.58	-0.37	3.18	-14.32	-691.77	-7.62
1134	4	0.23	0.79	0.49	-0.46	-1.07	-1.82	-0.79	-12.91	-653.37	-9.60
1135	1	0.09	0.21	-0.32	0.12	-1.47	-1.71	-2.39	-6.23	-627.33	15.46
1135	2	0.33	0.21	-0.87	0.08	-0.86	-2.46	8.02	-6.27	-612.90	23.23
1135	3	0.33	0.79	-1.92	0.36	-0.75	-2.17	6.87	-13.60	-632.53	20.50
1135	4	0.09	0.79	-1.30	0.45	-1.18	-2.54	-1.44	-13.31	-639.26	14.20
1136	1	0.09	0.21	1.12	0.19	-1.35	0.28	-12.61	-4.79	-592.25	-43.76
1136	2	0.35	0.21	1.09	0.32	-1.38	0.40	8.01	-5.68	-602.99	-30.32
1136	3	0.35	0.79	1.86	-0.64	-1.05	3.95	7.23	-11.20	-626.02	-26.65
1136	4	0.09	0.79	1.04	-0.78	-1.04	4.04	-9.47	-7.29	-617.29	-34.65
1137	1	0.09	0.21	-0.89	-0.40	-1.25	2.45	-6.67	-1.79	-536.50	53.66
1137	2	0.33	0.21	-0.34	-0.26	-1.21	3.33	14.26	2.62	-582.41	66.62
1137	3	0.33	0.79	1.23	1.39	-0.93	7.19	9.74	9.65	-601.10	45.04
1137	4	0.09	0.79	-0.22	1.07	-0.96	6.51	-6.21	1.21	-609.95	40.32
1138	1	0.09	0.21	-0.49	0.36	-0.95	2.43	-7.78	18.45	-584.39	-27.39
1138	2	0.32	0.21	-0.06	0.40	-0.67	1.02	2.74	9.01	-582.36	-73.88
1138	3	0.32	0.79	-1.88	-1.15	-0.60	1.45	3.90	21.38	-593.65	-47.62
1138	4	0.09	0.79	-2.27	-1.21	-0.89	2.17	-4.95	34.91	-581.50	-46.25
1139	1	0.13	0.21	-1.61	0.36	-0.15	2.51	-5.61	48.58	-589.39	-63.91
1139	2	0.47	0.21	-0.88	0.43	-0.49	1.22	-3.75	31.13	-590.04	-90.89
1139	3	0.47	0.79	-2.53	-1.29	-0.55	1.29	-1.96	52.72	-574.42	-38.20
1139	4	0.13	0.79	-3.19	-1.37	-0.22	2.23	-4.59	78.99	-553.20	-21.72
1140	1	0.18	0.21	-22.43	-3.62	-1.43	5.50	-1.43	-17.98	-466.91	-8.17
1140	2	0.67	0.21	-20.49	-2.91	-3.24	2.53	-4.42	-37.67	-507.46	-27.62
1140	3	0.67	0.79	-23.68	-3.12	-2.49	2.33	-5.70	22.99	-471.96	-2.05
1140	4	0.18	0.79	-24.45	-3.99	-1.21	3.14	-2.63	8.15	-451.47	-7.67
1141	1	0.21	0.21	-26.27	-1.68	-1.06	3.05	-5.63	13.26	-553.10	-9.53
1141	2	0.78	0.21	-23.97	-1.25	-1.97	3.46	-0.17	-6.60	-559.59	-3.76
1141	3	0.78	0.79	-25.49	-2.11	-1.71	3.41	0.66	20.06	-655.89	16.68
1141	4	0.21	0.79	-27.00	-2.73	-1.05	3.23	-6.24	21.94	-580.97	-1.16
1142	1	0.21	0.34	0.15	4.93	-0.23	0.67	16.17	-283.08	16.15	-35.89
1142	2	0.79	0.34	0.48	4.97	-0.34	0.69	16.80	-282.30	15.49	-36.89
1142	3	0.79	1.28	3.73	21.35	-0.08	1.11	17.90	-268.94	10.43	-26.54
1142	4	0.21	1.28	3.13	20.87	-0.06	1.65	17.80	-295.30	12.20	-30.52
1143	1	0.21	0.29	-3.86	-17.26	-0.05	0.37	14.32	-296.23	11.70	-28.46
1143	2	0.79	0.29	-3.76	-17.32	-0.15	-0.26	14.17	-290.84	9.10	-25.42
1143	3	0.79	1.09	-1.48	-5.34	-0.25	0.51	15.57	-284.65	10.40	-32.62
1143	4	0.21	1.09	-1.70	-5.30	-0.15	-0.27	15.45	-290.77	14.13	-31.92
1144	1	0.21	0.32	-5.92	-28.62	0.06	0.41	5.08	-305.03	9.98	-11.79

1144	2	0.79	0.32	-5.89	-28.68	0.02	-0.45	4.96	-300.48	9.36	-11.58
1144	3	0.79	1.19	-4.94	-23.63	-0.08	-0.40	6.58	-294.48	8.84	-19.60
1144	4	0.21	1.19	-5.01	-23.59	-0.02	0.54	6.35	-299.43	10.83	-19.16
1145	1	0.21	0.28	-5.47	-26.76	0.14	-0.04	-4.22	-314.01	9.89	-1.77
1145	2	0.79	0.28	-5.45	-26.79	0.13	-0.03	-4.18	-310.08	9.99	-1.59
1145	3	0.79	1.06	-6.01	-29.48	0.07	-0.35	-2.77	-304.70	9.76	-7.32
1145	4	0.21	1.06	-6.03	-29.44	0.09	0.22	-2.77	-309.02	9.92	-7.33
1146	1	0.30	0.25	-1.29	-0.65	-0.81	0.15	-0.25	-10.68	-725.70	-3.91
1146	2	1.10	0.37	-1.49	-0.37	-1.01	-0.36	3.21	-8.62	-777.86	-14.37
1146	3	1.10	0.95	-3.78	0.11	-0.79	-5.45	-5.87	-1.24	-710.14	14.68
1146	4	0.30	0.83	-0.82	-0.35	-0.36	0.39	-2.23	-11.29	-726.25	-12.74
1147	1	0.23	0.21	0.73	-0.59	-0.91	-2.82	-1.11	-16.45	-660.83	-10.25
1147	2	0.86	0.21	-0.55	-0.76	-0.58	-1.73	-0.28	-12.65	-677.51	-4.84
1147	3	0.86	0.79	-0.69	-0.65	-0.61	-1.41	4.28	-14.55	-702.11	-11.44
1147	4	0.23	0.79	0.84	-0.61	-0.58	-2.89	-1.02	-19.71	-663.02	-11.63
1148	1	0.09	0.21	-1.82	0.57	-0.87	-1.63	-2.70	-17.21	-651.54	15.78
1148	2	0.33	0.21	-2.41	0.56	-0.54	-1.49	4.89	-15.75	-642.05	18.76
1148	3	0.33	0.79	-2.49	0.68	-0.24	-1.27	2.58	-16.94	-644.96	12.96
1148	4	0.09	0.79	-1.98	0.73	-0.44	-1.24	0.27	-19.08	-647.54	13.01
1149	1	0.09	0.21	0.97	-1.18	-0.69	5.60	-5.88	-8.28	-625.80	-24.00
1149	2	0.35	0.21	2.16	-0.88	-0.70	5.33	4.64	-13.16	-634.46	-20.75
1149	3	0.35	0.79	2.17	-0.99	-0.21	5.74	2.01	-12.88	-637.91	-12.49
1149	4	0.09	0.79	0.89	-1.28	-0.20	5.88	-1.56	-8.05	-626.35	-9.09
1150	1	0.09	0.21	0.04	1.45	-0.60	7.71	-4.67	0.45	-617.24	25.42
1150	2	0.33	0.21	1.81	1.77	-0.59	8.18	5.70	10.05	-602.06	25.90
1150	3	0.33	0.79	1.98	1.82	-0.17	8.16	1.01	8.14	-595.33	4.02
1150	4	0.09	0.79	0.21	1.44	-0.17	7.88	-1.82	0.88	-614.91	8.14
1151	1	0.09	0.21	-3.06	-1.75	-0.69	2.73	-2.70	32.28	-572.08	-17.56
1151	2	0.32	0.21	-2.63	-1.64	-0.43	2.36	3.79	19.43	-590.20	-23.38
1151	3	0.32	0.79	-2.84	-1.59	-0.19	2.90	2.38	15.61	-577.53	0.06
1151	4	0.09	0.79	-3.41	-1.72	-0.39	3.02	0.14	24.52	-547.75	6.97
1152	1	0.13	0.21	-4.09	-1.96	-0.27	3.08	-1.88	64.01	-521.11	11.35
1152	2	0.47	0.21	-3.39	-1.82	-0.49	1.36	-0.45	40.51	-552.70	-8.18
1152	3	0.47	0.79	-3.81	-1.93	-0.34	2.17	0.86	31.24	-523.53	14.54
1152	4	0.13	0.79	-4.67	-2.13	-0.35	3.11	-0.53	36.43	-494.00	38.06
1153	1	0.18	0.21	-25.58	-4.24	-0.88	3.05	-0.51	29.81	-418.22	-2.85
1153	2	0.67	0.21	-25.16	-3.24	-1.60	1.99	-1.37	44.86	-458.49	-14.21
1153	3	0.67	0.79	-25.85	-3.47	-0.41	2.29	-2.40	32.22	-517.98	-84.06
1153	4	0.18	0.79	-26.46	-4.63	-0.22	3.60	-1.42	52.24	-396.95	-1.83
1154	1	0.21	0.21	-27.59	-3.82	-0.79	3.73	-5.31	20.58	-606.97	-0.98
1154	2	0.78	0.21	-26.37	-3.05	-1.19	3.05	-1.84	23.88	-669.86	8.76
1154	3	0.78	0.79	-26.96	-4.26	-0.22	2.57	-1.06	37.92	-624.66	7.64
1154	4	0.21	0.79	-28.17	-5.19	-0.28	4.21	-2.86	23.40	-638.08	-5.91
1155	1	0.21	0.34	0.79	5.02	-0.37	0.33	16.87	-280.45	7.64	-37.68
1155	2	0.79	0.34	1.11	5.03	-0.36	0.69	17.25	-279.93	1.70	-39.30
1155	3	0.79	1.28	4.67	22.18	-0.14	1.42	19.24	-297.22	6.72	-29.29
1155	4	0.21	1.28	4.01	21.69	-0.12	1.91	18.94	-276.76	9.55	-25.63
1156	1	0.21	0.29	-3.65	-17.37	-0.19	0.44	14.44	-285.92	6.43	-25.80
1156	2	0.79	0.29	-3.51	-17.44	-0.20	-0.32	14.37	-279.54	2.17	-25.22
1156	3	0.79	1.09	-1.06	-5.36	-0.25	0.14	16.08	-276.14	1.61	-32.79
1156	4	0.21	1.09	-1.27	-5.36	-0.28	0.47	15.67	-284.20	6.14	-33.22
1157	1	0.21	0.32	-5.85	-28.73	0.00	0.37	5.00	-297.05	8.79	-11.23
1157	2	0.79	0.32	-5.81	-28.79	-0.01	-0.52	5.02	-292.73	8.64	-10.39
1157	3	0.79	1.19	-4.78	-23.75	-0.10	-0.25	6.64	-284.50	5.27	-16.49
1157	4	0.21	1.19	-4.88	-23.68	-0.10	0.45	6.53	-290.11	7.19	-18.92
1158	1	0.21	0.28	-5.44	-26.83	0.12	-0.07	-4.14	-307.26	10.17	-1.66
1158	2	0.79	0.28	-5.43	-26.87	0.11	-0.06	-4.21	-303.74	10.83	-2.09
1158	3	0.79	1.06	-5.97	-29.58	0.06	-0.33	-2.77	-298.07	9.69	-5.48
1158	4	0.21	1.06	-5.99	-29.52	0.06	0.29	-2.79	-301.76	9.68	-6.83
1159	1	0.36	0.08	-4.00	-0.03	-0.05	-5.56	-0.67	-44.16	68.27	-46.87
1159	2	1.35	0.08	-9.23	0.18	1.59	-3.67	4.54	-41.47	-87.60	34.74
1159	3	1.35	0.32	-9.48	-0.05	-1.52	-6.10	-6.18	-62.93	-87.03	-35.41
1159	4	0.36	0.32	-3.87	0.00	0.28	-6.55	2.06	-59.94	68.28	46.22
1160	1	0.32	0.08	3.68	0.18	0.05	-4.76	-0.52	-48.71	35.28	-33.48
1160	2	1.19	0.08	-0.34	-0.48	-0.23	-3.41	-2.57	-46.19	-57.56	50.74
1160	3	1.19	0.32	-0.44	-0.46	0.32	-4.97	1.31	-58.32	-57.75	-51.42
1160	4	0.32	0.32	3.73	0.19	0.11	-5.65	1.60	-55.66	35.32	32.79
1161	1	0.28	0.08	-6.39	0.17	0.17	-2.90	-0.48	-50.55	-26.61	-28.85
1161	2	1.06	0.08	-9.44	-0.16	0.03	-3.99	0.23	-52.79	9.82	27.31
1161	3	1.06	0.32	-9.45	-0.16	0.10	-4.84	-1.19	-51.89	9.75	-27.14
1161	4	0.28	0.32	-6.36	0.19	-0.08	-4.07	1.48	-54.17	-26.58	29.52
1162	1	0.17	0.12	28.45	-0.71	0.48	-5.78	1.27	10.15	17.60	1.98
1162	2	0.62	0.12	23.55	0.74	0.56	-7.28	-0.30	5.76	-2.45	0.63
1162	3	0.53	0.45	24.85	0.65	2.03	-7.63	0.16	18.21	8.58	3.66
1162	4	0.14	0.44	29.10	-0.40	1.66	-5.98	4.08	24.56	18.82	8.75
1163	1	0.12	0.12	19.45	1.69	0.51	-8.12	0.63	7.40	-45.72	-2.34
1163	2	0.58	0.13	14.39	2.80	0.39	-6.92	-0.69	21.49	-140.33	-4.61
1163	3	0.37	0.50	16.44	2.41	2.06	-6.03	-2.47	20.54	-89.41	-15.35
1163	4	-0.02	0.47	21.05	1.45	2.13	-8.23	1.45	17.77	-17.46	-1.02
1164	1	0.08	0.14	11.32	3.20	0.24	-6.64	0.64	32.10	-219.91	-3.91
1164	2	0.53	0.16	8.24	3.50	0.12	-4.30	-1.95	39.06	-327.37	-0.99
1164	3	0.19	0.59	9.97	3.55	1.33	-3.07	0.02	45.67	-253.48	-11.54
1164	4	-0.18	0.53	13.17	2.87	1.75	-5.72	-1.07	33.01	-156.65	-16.47
1165	1	0.13	0.12	29.77	0.29	1.59	-5.78	7.16	50.32	16.37	11.05
1165	2	0.47	0.12	25.85	1.03	1.93	-9.71	3.47	45.69	14.80	10.84
1165	3	0.39	0.45	28.64	1.18	3.40	-10.05	1.80	103.30	10.01	18.77
1165	4	0.12	0.44	32.75	0.67	1.42	-18.24	5.67	103.72	6.68	5.55
1166	1	0.10	0.13	22.67	1.24	0.42	-11.89	3.38	37.06	1.81	4.36
1166	2	0.43	0.14	18.17	1.62	0.74	-12.59	-0.17	30.78	-36.80	-14.95
1166	3	0.27	0.53	20.71	1.43	3.60	-1.46	0.26	93.93	1.26	19.67
1166	4	0.00	0.48	25.71	1.02	2.51	-5.95	3.16	111.57	11.20	19.09
1167	1	0.06	0.16	15.29	1.81	-0.18	-13.05	-0.15	16.53	-83.69	-42.15
1167	2	0.39	0.18	11.67	1.97	0.15	-11.46	-4.55	20.95	-173.53	-72.25
1167	3	0.14	0.67	13.67	1.49	2.96	-0.08	0.40	51.91	-44.92	-21.86
1167	4	-0.12	0.59	17.91	1.14	2.59	-0.72	1.35	85.69	-5.43	4.23
1168	1	0.16	0.12	-31.01	1.51	0.29	-2.68	-0.74	16.50	6.89	-3.29
1168	2	0.61	0.12	-32.14	1.95	-0.01	-0.20	-0.67	31.24	-38.14	-5.12
1168	3	0.52	0.45	-32.99	2.00	0.07	-1.27	-3.29	33.32	-21.39	-15.45
1168	4	0.14	0.44	-31.44	1.26	1.06	-4.78	-2.73	28.19	9.22	-7.36
1169	1	0.12	0.12	-31.52	1.62	-0.23	1.70	-0.09	46.29	-87.61	-6.95
1169	2	0.57	0.13	-29.44	0.24	-0.26	1.91	-1.34	72.06	-164.25	-8.48
1169	3	0.36	0.50	-31.10	1.42	-2.38	-1.30	2.42	57.58	-128.82	-28.48
1169	4	-0.01	0.47	-32.51	2.09	-0.97	-1.84	-1.99	41.80	-61.99	-20.98
1170	1	0.08	0.14	-27.82	-0.56	-0.19	2.72	-0.77	86.80	-202.03	-4.81
1170	2	0.52	0.16	-26.03	-1.75	-0.22	1.15	2.53	93.87	-241.51	-1.27
1170	3	0.19	0.58	-27.16	-2.04	-2.60	-7.24	-3.75	87.54	-229.05	-14.44
1170	4	-0.18	0.53	-28.94	0.36	-2.69	-5.82	0.00	71.46	-180.69	-26.54
1171	1	0.13	0.12	-31.72	0.00	3.63	-1.77	-6.70	47.15	12.33	-9.85
1171	2	0.46	0.12	-33.43	1.31	2.99	4.38	-2.19	42.64	-7.50	-14.22
1171	3	0.39	0.45	-35.89	-0.04	-0.08	-30.74	-9.60	92.10	0.73	2.51
1171	4	0.12	0.44	-34.47	-0.61	2.36	-25.46	-5.09	96.76	4.85	-3.80
1172	1	0.10	0.13	-33.32	1.55	4.91	10.28	-5.71	30.84	-28.62	-30.30
1172	2	0.43	0.14	-32.43	2.73	3.80	14.60	-3.74	31.52	-21.02	-53.00
1172	3	0.27	0.53	-34.61	0.74	-1.54	-39.32	-12.56	34.33	-24.99	-18.30
1172	4	0.00	0.48	-35.75	0.27	0.83	-37.59	-10.79	67.61	0.06	-3.94
1173	1	0.06	0.16	-30.81	2.33	5.06	20.93	-0.03	23.54	-120.07	-33.01

1173	2	0.39	0.18	-28.52	2.54	3.48	18.60	9.47	31.98	-189.14	-93.32
1173	3	0.14	0.66	-30.61	2.02	-2.44	-33.18	-17.59	-38.33	-91.07	-79.47
1173	4	-0.11	0.59	-33.35	1.72	-0.28	-39.56	-13.70	1.61	-41.08	-41.72
1174	1	0.36	0.12	-2.75	-26.03	1.14	0.41	1.24	-249.68	92.38	-4.07
1174	2	0.90	0.10	-2.62	-24.34	2.53	3.89	-1.16	-273.27	78.03	-7.16
1174	3	1.21	0.37	-1.77	-24.16	4.00	-0.83	1.29	-291.30	63.22	13.71
1174	4	0.76	0.46	-1.32	-24.49	2.13	-1.37	2.42	-260.05	78.65	16.65
1175	1	0.30	0.09	-2.28	-22.67	3.63	2.87	4.30	-302.11	53.73	-8.17
1175	2	0.85	0.07	-2.72	-19.10	4.61	5.12	2.71	-346.74	5.40	-1.25
1175	3	1.01	0.27	-3.11	-17.10	6.55	5.95	5.49	-398.21	-31.18	37.86
1175	4	0.54	0.32	-1.17	-21.83	4.91	3.82	-0.76	-333.51	26.83	19.66
1176	1	0.25	0.07	-4.37	-15.01	4.28	4.54	6.74	-404.44	-47.06	30.34
1176	2	0.80	0.06	-6.02	-10.77	1.31	-2.52	9.36	-431.26	-75.88	53.64
1176	3	0.83	0.22	-7.38	-7.48	1.75	-1.45	10.00	-501.31	-71.01	61.99
1176	4	0.35	0.24	-5.13	-11.39	5.67	3.90	8.63	-456.22	-62.03	58.62
1177	1	0.27	0.16	-3.79	-24.47	12.09	14.81	-6.96	-242.62	61.98	-47.77
1177	2	0.66	0.13	-4.61	-19.56	13.27	18.63	-0.05	-300.77	23.80	-45.33
1177	3	0.89	0.47	-8.99	-11.76	11.92	-40.20	17.12	-346.44	-19.34	68.29
1177	4	0.57	0.59	-6.50	-18.19	13.58	-29.24	21.44	-214.19	-2.38	42.75
1178	1	0.24	0.10	-4.43	-17.99	12.30	15.54	8.89	-359.73	-0.47	1.49
1178	2	0.65	0.08	-6.91	-10.45	10.16	4.16	7.51	-455.51	-45.06	19.79
1178	3	0.78	0.30	-9.70	-3.15	6.53	-37.59	12.01	-604.78	-45.71	95.78
1178	4	0.44	0.37	-7.90	-8.66	9.94	-40.75	16.73	-433.72	-46.13	118.44
1179	1	0.20	0.07	-7.17	-7.64	6.64	2.06	12.96	-526.36	-62.57	64.65
1179	2	0.62	0.06	-8.91	-4.28	1.31	-1.91	9.97	-574.32	-55.77	34.63
1179	3	0.64	0.23	-9.52	-0.64	0.11	-4.59	4.62	-696.48	-19.13	14.74
1179	4	0.29	0.25	-9.01	-3.12	4.60	-27.31	11.27	-659.96	-38.75	112.49
1180	1	0.20	0.06	-6.38	-10.97	-2.64	1.88	9.86	-428.84	-64.79	49.66
1180	2	0.75	0.07	-5.29	-15.39	-5.43	-5.19	6.74	-376.36	-15.62	36.32
1180	3	0.65	0.24	-5.85	-11.83	-6.83	-4.08	8.07	-405.93	-30.87	15.26
1180	4	0.17	0.22	-7.68	-7.72	-2.97	0.42	10.24	-478.87	-60.15	30.76
1181	1	0.15	0.07	-3.83	-19.40	-5.44	-5.63	2.79	-343.24	11.95	21.29
1181	2	0.70	0.09	-3.24	-23.14	-4.10	-1.77	5.06	-304.35	57.71	14.85
1181	3	0.46	0.32	-2.07	-22.31	-5.51	-3.64	-0.24	-289.94	53.61	-12.02
1181	4	-0.01	0.27	-4.07	-17.55	-7.53	-6.21	5.59	-340.54	9.94	7.98
1182	1	0.10	0.10	-3.22	-24.96	-2.78	-3.14	-0.81	-260.11	55.21	-7.85
1182	2	0.64	0.12	-3.05	-26.62	-1.25	-0.16	1.58	-165.79	36.74	-61.03
1182	3	0.24	0.46	-1.70	-25.03	-2.37	1.89	2.85	-240.38	70.78	-38.88
1182	4	-0.21	0.37	-2.44	-24.69	-4.39	1.51	1.65	-267.04	68.09	-16.41
1183	1	0.16	0.06	-9.29	-8.29	-2.49	1.35	10.05	-529.34	-53.60	40.97
1183	2	0.58	0.07	-8.02	-8.01	-7.78	-2.41	12.69	-432.47	-27.71	2.80
1183	3	0.49	0.25	-10.03	-3.37	-5.25	31.56	11.51	-493.89	-16.97	-65.49
1183	4	0.14	0.23	-9.87	-0.65	-0.67	9.52	4.99	-645.16	-24.47	13.42
1184	1	0.12	0.08	-8.03	-10.75	-11.17	-4.39	7.31	-344.96	-16.18	34.61
1184	2	0.53	0.10	-5.45	-18.37	-13.03	-15.50	8.69	-269.77	34.60	31.78
1184	3	0.33	0.37	-9.05	-9.02	-10.66	42.94	17.20	-235.25	-7.89	-41.64
1184	4	-0.01	0.30	-10.98	-3.40	-7.23	41.00	12.45	-401.19	-21.67	-38.36
1185	1	0.07	0.13	-5.54	-19.89	-13.76	-18.35	0.20	-214.93	53.56	59.07
1185	2	0.46	0.16	-4.38	-24.85	-12.45	-14.34	-6.70	-201.62	81.08	47.20
1185	3	0.16	0.59	-7.22	-18.55	-14.05	30.30	21.99	-65.87	48.37	24.68
1185	4	-0.16	0.47	-10.06	-12.08	-12.50	41.74	17.41	-159.02	21.03	-4.72
1186	1	0.29	0.16	-26.59	-1.93	0.32	-0.79	2.21	71.81	-256.47	85.82
1186	2	0.74	0.14	-28.30	-0.60	0.29	-2.27	-1.06	48.34	-223.36	-1.91
1186	3	1.00	0.53	-29.38	0.27	2.89	6.41	-0.34	62.36	-167.32	0.94
1186	4	0.63	0.58	-27.69	-2.27	3.00	7.71	-4.06	77.18	-223.88	29.09
1187	1	0.25	0.13	-29.83	0.28	0.38	-1.42	-1.66	23.75	-182.50	-24.29
1187	2	0.69	0.12	-31.70	1.75	0.37	-1.05	-0.23	-2.47	-82.96	-50.53
1187	3	0.83	0.47	-32.61	2.17	1.12	2.58	-2.22	15.66	-30.76	-44.00
1187	4	0.45	0.50	-31.41	1.42	2.55	1.81	2.07	37.12	-92.73	-3.81
1188	1	0.20	0.12	-32.08	2.14	0.16	0.92	-0.83	-19.37	-28.94	-73.84
1188	2	0.65	0.12	-30.59	1.76	-0.14	3.53	-0.82	-33.30	4.55	-92.30
1188	3	0.68	0.44	-31.00	1.47	-0.91	5.60	-2.71	-15.09	5.09	-83.70
1188	4	0.29	0.45	-32.87	2.14	0.07	2.01	-3.60	-2.53	-5.74	-65.60
1189	1	0.22	0.18	-29.12	2.37	-3.28	-18.15	8.99	49.72	-139.85	69.99
1189	2	0.54	0.16	-31.28	2.27	-4.91	-20.35	-0.35	45.58	-85.19	48.99
1189	3	0.72	0.59	-33.87	1.66	0.45	40.51	-14.12	131.36	-0.80	-12.44
1189	4	0.46	0.66	-31.32	1.86	2.74	34.14	-18.20	87.59	-36.03	13.83
1190	1	0.19	0.14	-32.76	2.72	-3.64	-13.82	-4.13	51.94	-44.19	-2.42
1190	2	0.52	0.13	-33.40	1.61	-4.77	-9.39	-5.94	44.40	-7.73	-38.84
1190	3	0.62	0.48	-35.78	0.27	-0.74	38.26	-10.97	145.24	13.61	-37.05
1190	4	0.35	0.53	-34.93	0.69	1.67	40.07	-12.93	145.01	2.55	-34.13
1191	1	0.16	0.12	-33.27	1.39	-2.83	-3.37	-7.49	34.30	11.29	-59.82
1191	2	0.50	0.12	-31.26	0.15	-3.43	2.85	-6.82	14.68	6.49	-74.39
1191	3	0.51	0.44	-33.93	-0.56	-2.24	25.85	-5.31	69.06	5.16	-29.64
1191	4	0.23	0.45	-35.69	-0.03	0.16	33.25	-9.83	117.57	14.93	-39.10
1192	1	0.17	0.12	-27.76	1.03	-0.33	6.70	-1.33	-38.32	1.89	-93.63
1192	2	0.62	0.12	-22.55	-0.24	-0.45	8.11	0.31	-39.15	-45.88	-75.71
1192	3	0.53	0.45	-23.93	-0.19	-1.80	8.46	-0.09	-38.33	-25.73	-82.22
1192	4	0.14	0.44	-28.43	0.69	-1.47	6.90	-4.26	-29.07	2.45	-84.28
1193	1	0.12	0.12	-18.30	-1.00	-0.45	9.03	-0.60	-25.77	-93.03	-51.25
1193	2	0.58	0.13	-13.08	-1.83	-0.43	7.58	0.76	6.29	-161.84	-57.36
1193	3	0.37	0.50	-15.28	-1.45	-1.87	6.78	2.65	-23.92	-169.91	-69.35
1193	4	-0.02	0.47	-19.99	-0.79	-1.90	9.23	-1.45	-34.56	-88.28	-71.40
1194	1	0.08	0.14	-9.93	-2.00	-0.38	7.55	-0.36	7.88	-216.93	-74.02
1194	2	0.53	0.16	-6.70	-2.00	-0.35	4.94	2.33	38.46	-219.20	46.83
1194	3	0.19	0.59	-8.66	-2.07	-1.29	3.96	0.08	-23.76	-228.99	-48.26
1194	4	-0.18	0.53	-11.92	-1.67	-1.61	6.60	1.17	-29.85	-182.36	-88.74
1195	1	0.13	0.12	-29.05	-0.09	-1.36	6.81	-7.30	-15.37	6.07	-70.06
1195	2	0.47	0.12	-24.89	-0.67	-1.62	10.85	-3.51	-40.15	-24.58	-68.72
1195	3	0.39	0.45	-27.57	-1.02	-3.11	10.21	-1.82	-30.51	-14.19	-31.04
1195	4	0.12	0.44	-31.96	-0.61	-1.28	18.57	-5.81	22.77	1.96	-26.03
1196	1	0.10	0.13	-21.54	-0.77	-0.07	12.83	-3.48	-66.22	-41.80	-76.66
1196	2	0.43	0.14	-16.95	-0.83	-0.29	13.83	0.01	-68.82	-96.52	-85.82
1196	3	0.27	0.53	-19.36	-1.04	-3.04	1.27	-0.36	-105.31	-37.72	-50.26
1196	4	0.00	0.48	-24.45	-0.84	-2.16	6.03	-3.32	-66.64	-10.17	-36.71
1197	1	0.06	0.16	-14.05	-0.83	0.63	14.12	0.09	-73.51	-100.17	-94.44
1197	2	0.39	0.18	-10.40	-0.58	0.29	12.56	4.70	-89.47	-212.17	-118.56
1197	3	0.14	0.67	-12.26	-0.57	-2.08	-0.09	-0.95	-148.68	-108.82	-105.70
1197	4	-0.12	0.59	-16.45	-0.61	-1.94	0.53	-1.54	-136.81	-59.84	-72.53
1198	1	0.36	0.13	-1.87	-5.79	0.56	1.13	-5.22	-362.23	21.93	-48.24
1198	2	0.90	0.10	-1.06	-4.77	0.69	3.73	-4.73	-388.14	-5.61	-17.41
1198	3	1.21	0.38	-0.72	-5.63	1.12	3.41	-4.86	-358.27	-32.56	27.83
1198	4	0.77	0.47	-1.44	-6.72	0.90	1.98	-4.63	-291.91	-20.67	21.84
1199	1	0.30	0.09	-0.06	-3.80	0.71	3.72	-4.08	-432.27	-25.78	3.82
1199	2	0.85	0.08	1.42	-2.43	0.64	4.11	-3.93	-492.96	-49.85	15.61
1199	3	1.01	0.28	1.56	-2.60	0.96	4.58	-2.11	-512.87	-61.60	56.44
1199	4	0.54	0.33	0.50	-4.26	0.98	3.89	-5.55	-432.37	-40.36	41.84
1200	1	0.25	0.07	2.29	-1.48	0.46	2.89	-2.26	-544.81	-69.94	23.45
1200	2	0.80	0.06	2.48	-0.66	0.04	-0.65	-1.25	-583.79	-86.53	22.29
1200	3	0.83	0.24	2.26	-0.63	0.12	-0.84	-0.52	-639.39	-82.40	42.35
1200	4	0.35	0.25	2.23	-1.42	0.69	2.52	-1.39	-582.79	-79.78	53.11
1201	1	0.27	0.16	-2.38	-7.39	3.67	8.24	-7.59	-287.63	-90.67	2.89
1201	2	0.66	0.13	-1.29	-4.85	3.41	9.69	-4.18	-383.21	-36.31	-9.35
1201	3	0.89	0.48	-2.15	-3.00	3.04	-3.33	1.23	-397.39	-45.01	96.49
1201	4	0.57	0.60	-3.46	-5.91	4.68	-0.50	0.43	-277.12	-52.10	96.35
1202	1	0.24	0.10	-0.04	-3.65	2.75	8.40	-1.69	-443.94	-44.03	23.46

1202	2	0.65	0.08	1.02	-1.66	1.92	4.78	-0.82	-553.81	-64.23	17.92
1202	3	0.78	0.31	0.91	-0.40	0.92	-4.94	1.87	-669.72	-47.62	98.65
1202	4	0.44	0.38	-0.57	-1.95	1.96	-4.84	0.77	-481.03	-61.29	137.63
1203	1	0.20	0.07	1.98	-1.02	1.00	2.34	0.59	-636.82	-69.48	57.51
1203	2	0.62	0.06	2.04	-0.33	0.20	-1.12	0.50	-704.07	-67.55	13.13
1203	3	0.63	0.24	2.10	0.01	0.00	-2.79	0.36	-832.28	-24.73	7.45
1203	4	0.29	0.26	1.87	-0.50	0.42	-4.38	1.45	-747.92	-42.38	118.14
1204	1	0.20	0.06	1.70	-0.78	-0.30	-2.56	-0.97	-574.50	-71.35	35.54
1204	2	0.75	0.07	0.11	-1.94	-0.72	-4.76	-1.95	-521.80	-12.43	40.51
1204	3	0.65	0.25	0.27	-1.62	-0.99	-4.48	-1.62	-543.69	-29.54	9.51
1204	4	0.17	0.24	1.55	-0.66	-0.32	-2.52	0.47	-623.22	-70.31	15.11
1205	1	0.15	0.08	-1.08	-3.29	-0.86	-5.16	-2.08	-473.56	25.54	37.50
1205	2	0.70	0.09	-2.43	-5.10	-0.83	-3.50	-2.59	-422.50	52.24	21.28
1205	3	0.46	0.33	-1.88	-5.15	-1.38	-4.37	-4.33	-402.32	48.54	0.82
1205	4	-0.01	0.28	-0.84	-3.16	-1.37	-6.08	-1.39	-469.40	15.97	13.41
1206	1	0.10	0.10	-3.14	-6.28	-0.68	-3.37	-3.86	-393.92	50.53	8.82
1206	2	0.64	0.13	-3.56	-7.38	-0.35	-0.47	-4.04	-370.10	42.84	2.30
1206	3	0.23	0.47	-3.19	-8.07	-1.01	-2.21	-3.90	-306.63	45.99	-12.32
1206	4	-0.21	0.38	-2.81	-6.76	-1.40	-3.72	-3.74	-347.54	60.34	-2.96
1207	1	0.16	0.06	1.38	-0.37	-0.34	-2.33	0.78	-677.50	-64.21	30.77
1207	2	0.58	0.07	0.08	-1.15	-1.18	-4.59	0.06	-572.91	-35.21	-1.63
1207	3	0.49	0.26	-0.02	-0.58	-0.67	1.00	0.46	-651.07	-24.83	-86.23
1207	4	0.14	0.24	1.53	0.00	-0.05	-1.22	0.96	-807.59	-28.98	7.60
1208	1	0.12	0.08	-1.39	-1.92	-2.07	-5.98	-0.35	-465.04	-17.24	47.57
1208	2	0.53	0.10	-2.53	-4.31	-2.97	-8.32	-0.93	-362.17	35.71	45.31
1208	3	0.32	0.38	-3.12	-2.21	-2.58	2.46	0.14	-319.77	-10.42	-56.49
1208	4	-0.01	0.31	-1.48	-0.48	-1.24	1.42	1.27	-533.72	-26.87	-51.54
1209	1	0.07	0.13	-3.58	-5.49	-3.52	-8.69	-3.33	-303.91	39.06	73.97
1209	2	0.46	0.16	-4.28	-8.25	-3.81	-7.35	-6.42	-238.32	52.16	55.02
1209	3	0.16	0.60	-5.49	-6.44	-5.37	-0.52	0.46	-101.28	33.52	13.67
1209	4	-0.16	0.48	-4.62	-3.30	-3.60	1.51	0.83	-214.24	17.11	-9.55
1210	1	0.13	0.21	-4.60	-1.83	-0.36	3.25	1.60	32.65	-432.07	43.27
1210	2	0.47	0.21	-3.62	-1.62	-0.20	2.61	1.64	26.86	-508.78	25.06
1210	3	0.47	0.79	-2.81	-0.81	-0.06	2.80	2.71	13.63	-497.11	34.07
1210	4	0.13	0.79	-4.00	-1.07	-0.39	4.39	2.55	8.90	-441.96	30.08
1211	1	0.09	0.21	-3.17	-1.47	-0.05	3.11	1.24	20.83	-539.73	19.98
1211	2	0.32	0.21	-2.56	-1.31	0.01	3.05	0.96	15.65	-566.30	13.81
1211	3	0.32	0.79	-1.66	-0.53	0.22	2.65	-0.12	8.35	-552.02	27.56
1211	4	0.09	0.79	-2.23	-0.64	0.25	3.34	3.77	11.99	-521.60	32.32
1212	1	0.09	0.21	0.17	1.20	0.14	7.27	0.08	0.69	-605.64	-3.37
1212	2	0.33	0.21	1.74	1.47	0.14	7.42	-1.95	6.71	-583.89	-9.52
1212	3	0.33	0.79	1.02	0.75	0.50	5.11	-5.85	4.18	-569.69	-23.34
1212	4	0.09	0.79	-0.03	0.48	0.51	4.90	2.66	-0.20	-590.54	-15.86
1213	1	0.09	0.21	0.83	-1.07	0.12	5.23	1.47	-6.39	-620.96	-0.69
1213	2	0.35	0.21	1.97	-0.85	0.13	5.26	-0.32	-10.74	-634.54	-4.87
1213	3	0.35	0.79	1.40	-0.41	0.52	3.53	-2.79	-8.77	-622.37	7.52
1213	4	0.09	0.79	0.67	-0.63	0.49	3.25	4.76	-5.45	-606.22	6.88
1214	1	0.09	0.21	-1.74	0.66	-0.13	-1.77	-0.71	-18.35	-646.72	9.03
1214	2	0.33	0.21	-2.20	0.61	-0.03	-1.47	0.10	-15.57	-640.09	6.43
1214	3	0.33	0.79	-1.53	0.56	0.22	-1.22	-1.34	-12.01	-631.53	-0.03
1214	4	0.09	0.79	-1.13	0.59	0.24	-0.84	1.76	-14.27	-646.05	5.27
1215	1	0.23	0.21	0.80	-0.58	-0.20	-2.31	-0.15	-18.79	-661.31	-13.47
1215	2	0.86	0.21	-0.61	-0.55	-0.32	-0.33	-2.64	-15.73	-702.98	-13.64
1215	3	0.86	0.79	-0.45	-0.72	-0.41	-1.07	-0.32	-19.60	-679.80	-21.26
1215	4	0.23	0.79	0.43	-0.57	0.01	-1.96	-0.28	-16.29	-656.39	-9.73
1216	1	0.30	0.17	-0.85	-0.48	-0.46	-1.76	0.58	-11.59	-729.19	-8.43
1216	2	1.10	0.05	-3.85	-0.15	-0.02	-3.64	6.06	0.40	-710.07	-21.06
1216	3	1.10	0.63	-1.42	-0.50	0.36	0.23	-1.73	-9.01	-792.66	3.80
1216	4	0.30	0.75	-1.23	-0.79	-0.21	-0.42	0.88	-12.18	-733.56	-17.66
1217	1	0.18	0.21	-26.52	-4.87	0.32	3.56	-0.02	58.05	-385.09	-9.26
1217	2	0.67	0.21	-25.86	-3.66	0.46	2.46	1.74	85.17	-215.69	-84.47
1217	3	0.67	0.79	-25.20	-3.88	1.69	2.52	0.80	56.51	-303.74	-13.16
1217	4	0.18	0.79	-25.77	-4.98	1.05	2.72	-0.65	58.75	-381.77	-25.05
1218	1	0.21	0.21	-28.56	-6.21	0.44	4.83	-1.05	31.77	-662.94	-14.38
1218	2	0.78	0.21	-27.21	-5.20	0.54	3.18	-3.51	47.26	-646.05	-7.02
1218	3	0.78	0.79	-27.06	-6.11	1.52	5.35	-1.61	58.14	-608.55	-38.00
1218	4	0.21	0.79	-28.80	-7.26	1.09	5.09	2.49	26.91	-681.65	-31.41
1219	1	0.21	0.34	1.33	5.08	-0.27	-0.06	17.31	-278.95	-2.04	-40.11
1219	2	0.79	0.34	1.45	5.17	-0.17	0.03	17.93	-273.81	-5.24	-40.72
1219	3	0.79	1.28	5.11	22.45	-0.13	0.90	20.72	-311.91	4.43	-45.10
1219	4	0.21	1.28	4.83	22.36	-0.12	0.81	19.78	-300.19	6.51	-34.12
1220	1	0.21	0.29	-3.43	-17.49	-0.17	0.21	14.61	-272.83	0.02	-22.22
1220	2	0.79	0.29	-3.39	-17.56	-0.09	-0.36	14.57	-265.10	-1.81	-14.95
1220	3	0.79	1.09	-0.84	-5.44	-0.14	-0.32	15.57	-262.99	-8.58	-35.69
1220	4	0.21	1.09	-0.87	-5.38	-0.23	0.76	16.10	-272.84	-2.98	-33.39
1221	1	0.21	0.32	-5.79	-28.84	0.00	0.36	5.02	-290.00	8.68	-8.38
1221	2	0.79	0.32	-5.78	-28.90	0.02	-0.54	5.01	-287.15	9.70	-3.62
1221	3	0.79	1.19	-4.72	-23.86	-0.05	-0.38	6.77	-275.00	4.61	-12.56
1221	4	0.21	1.19	-4.76	-23.81	-0.08	0.31	6.59	-280.93	4.26	-15.07
1222	1	0.21	0.28	-5.42	-26.91	0.11	-0.09	-4.18	-301.56	11.65	-1.27
1222	2	0.79	0.28	-5.44	-26.96	0.12	-0.11	-4.18	-298.93	12.52	1.26
1222	3	0.79	1.06	-5.97	-29.68	0.07	-0.43	-2.75	-293.37	12.49	-6.16
1222	4	0.21	1.06	-5.96	-29.62	0.06	0.28	-2.76	-295.42	10.65	-5.13
1223	1	0.30	0.21	-1.07	-0.96	-0.13	-1.99	0.31	-14.43	-722.27	-20.87
1223	2	1.10	0.21	-0.59	-1.34	-0.05	2.76	-1.06	-4.69	-806.59	-0.13
1223	3	1.10	0.79	-0.41	-1.78	-0.15	-0.03	-0.04	-4.41	-831.40	-13.02
1223	4	0.30	0.79	-0.92	-1.25	-0.52	-0.63	-0.11	-37.72	-776.20	-44.20
1224	1	0.23	0.21	0.02	-0.64	0.09	-0.84	-0.74	-18.13	-807.40	-3.75
1224	2	0.86	0.21	-0.50	-0.63	-0.35	-0.50	-0.91	-28.35	-694.56	-15.82
1224	3	0.86	0.79	-0.84	-0.88	-0.43	0.05	-1.48	-26.12	-693.26	-6.50
1224	4	0.23	0.79	-0.64	-0.69	0.03	-1.14	-0.89	-17.17	-635.72	6.24
1225	1	0.09	0.21	-0.43	0.53	0.34	-1.40	1.12	-10.00	-634.26	-0.76
1225	2	0.33	0.21	-0.74	0.47	0.29	-1.23	-2.51	-6.69	-626.45	-4.61
1225	3	0.33	0.79	0.40	0.48	0.28	-0.46	-1.96	1.45	-621.20	-15.01
1225	4	0.09	0.79	0.50	0.47	0.44	0.29	1.07	-10.20	-627.31	-20.66
1226	1	0.09	0.21	0.45	-0.12	0.68	1.26	6.19	-4.26	-588.43	15.23
1226	2	0.35	0.21	0.73	-0.12	0.68	1.30	-4.10	-6.73	-607.60	8.85
1226	3	0.35	0.79	-0.24	0.55	0.64	-1.90	-3.82	-1.81	-603.84	-0.82
1226	4	0.09	0.79	0.20	0.59	0.68	-2.04	6.55	-1.77	-584.91	32.35
1227	1	0.09	0.21	-0.25	-0.21	0.72	1.77	3.58	-0.37	-581.82	-21.23
1227	2	0.33	0.21	0.17	-0.18	0.70	1.86	-6.15	-0.41	-559.17	-26.35
1227	3	0.33	0.79	-1.22	-1.50	0.65	-2.78	-7.78	-10.68	-546.12	-11.12
1227	4	0.09	0.79	-0.53	-1.41	0.68	-3.00	3.46	0.05	-574.54	-15.17
1228	1	0.09	0.21	-1.15	0.27	0.38	2.90	4.65	-3.02	-522.26	22.83
1228	2	0.32	0.21	-0.51	0.44	0.33	2.95	-0.20	-1.79	-542.36	29.57
1228	3	0.32	0.79	1.17	1.92	0.29	2.65	0.05	-14.00	-529.01	11.86
1228	4	0.09	0.79	0.33	1.80	0.31	2.79	4.93	-21.98	-517.31	23.45
1229	1	0.13	0.21	-3.12	-0.14	-0.39	3.91	4.40	-9.98	-481.29	21.59
1229	2	0.47	0.21	-1.82	0.15	0.02	3.89	3.21	-3.09	-498.42	24.09
1229	3	0.47	0.79	-0.47	1.73	0.01	4.22	3.25	-21.41	-504.92	29.71
1229	4	0.13	0.79	-1.86	1.45	-0.33	3.80	4.08	-40.37	-495.94	2.60
1230	1	0.18	0.21	-24.74	-5.11	1.42	3.95	0.73	49.04	-356.17	-81.48
1230	2	0.67	0.21	-23.79	-4.17	2.63	2.76	5.16	42.89	-322.72	-8.02
1230	3	0.67	0.79	-20.57	-4.30	3.56	3.09	4.69	16.40	-346.30	-37.24
1230	4	0.18	0.79	-22.74	-5.33	1.70	2.47	0.82	2.06	-358.65	-58.45
1231	1	0.21	0.21	-28.19	-6.90	1.01	3.45	5.60	36.19	-682.88	49.34

1231	2	0.78	0.21	-25.94	-6.35	2.01	3.47	-3.17	40.82	-649.03	-30.46
1231	3	0.78	0.79	-23.83	-7.84	1.97	0.49	-3.15	-11.28	-645.20	-11.34
1231	4	0.21	0.79	-27.30	-7.64	0.76	5.69	-0.70	36.18	-701.14	-66.87
1232	1	0.21	0.34	1.32	5.08	-0.11	-0.77	17.26	-268.37	-9.21	-47.15
1232	2	0.79	0.34	1.23	4.85	-0.14	0.30	16.27	-255.76	-22.67	-58.54
1232	3	0.79	1.28	4.51	22.49	-0.17	1.04	17.96	-316.52	1.60	-58.43
1232	4	0.21	1.28	4.80	22.42	-0.13	-1.71	19.25	-309.75	6.13	-52.98
1233	1	0.21	0.29	-3.38	-17.56	-0.06	0.29	14.47	-259.28	-3.86	-13.67
1233	2	0.79	0.29	-3.46	-17.57	-0.01	-0.84	14.64	-247.01	1.91	-17.11
1233	3	0.79	1.09	-0.85	-5.41	0.03	-0.61	17.60	-232.93	-1.70	-12.92
1233	4	0.21	1.09	-0.87	-5.44	-0.05	0.35	16.41	-254.65	-11.04	-31.42
1234	1	0.21	0.32	-5.81	-28.95	0.04	0.26	5.12	-286.59	14.90	-1.27
1234	2	0.79	0.32	-5.88	-29.00	0.07	-0.72	5.10	-291.70	22.62	-2.67
1234	3	0.79	1.19	-4.81	-23.97	0.05	-0.49	6.40	-266.05	0.34	8.49
1234	4	0.21	1.19	-4.69	-23.89	-0.02	0.26	6.70	-269.16	4.69	-4.30
1235	1	0.21	0.28	-5.47	-26.99	0.12	-0.15	-4.23	-295.97	12.81	-3.57
1235	2	0.79	0.28	-5.53	-27.03	0.13	-0.16	-4.23	-288.37	9.89	-16.99
1235	3	0.79	1.06	-6.06	-29.76	0.11	-0.44	-2.77	-298.45	25.23	1.42
1235	4	0.21	1.06	-6.00	-29.72	0.09	0.17	-2.78	-294.63	16.19	-5.66
1236	1	0.30	0.21	-0.90	-1.51	-0.84	0.01	-1.76	-44.25	-609.01	-37.91
1236	2	1.10	0.21	-0.30	-2.04	-0.60	0.35	0.88	-28.35	-666.91	-37.16
1236	3	1.10	0.79	-0.33	-2.32	-0.89	0.66	2.09	-57.86	-918.48	-83.74
1236	4	0.30	0.79	-1.15	-1.85	-1.31	0.04	-1.99	-20.42	-661.94	-10.74
1237	1	0.23	0.21	-1.18	-0.68	-0.20	-0.64	-1.13	-21.23	-621.15	22.15
1237	2	0.86	0.21	-1.20	-1.07	-0.50	-0.61	0.08	-33.35	-666.21	-6.60
1237	3	0.86	0.79	-1.55	-1.40	-0.83	-0.01	-0.45	-13.00	-619.60	-1.64
1237	4	0.23	0.79	-1.76	-0.91	-0.65	-0.73	-1.78	-4.84	-588.02	32.76
1238	1	0.09	0.21	1.16	0.28	0.25	-0.84	0.90	-9.14	-611.31	-33.44
1238	2	0.33	0.21	1.10	0.20	0.22	-1.32	-2.92	2.12	-604.44	-37.10
1238	3	0.33	0.79	1.63	0.14	-0.19	-2.55	2.82	-9.97	-643.87	-69.77
1238	4	0.09	0.79	1.79	0.42	-0.41	-1.71	0.73	-1.17	-601.18	-41.91
1239	1	0.09	0.21	0.18	1.10	0.42	-4.70	3.46	25.47	-616.13	0.07
1239	2	0.35	0.21	-0.70	0.85	0.45	-3.99	-2.83	26.35	-640.63	29.27
1239	3	0.35	0.79	-1.10	0.89	-0.12	-5.26	0.57	10.34	-698.95	96.36
1239	4	0.09	0.79	0.15	1.20	-0.13	-6.46	-0.77	5.89	-679.46	-76.81
1240	1	0.09	0.21	-0.98	-2.56	0.37	-5.40	-0.33	-6.44	-555.06	6.05
1240	2	0.33	0.21	-2.14	-2.86	0.35	-6.44	-6.02	-21.71	-535.76	1.89
1240	3	0.33	0.79	-2.34	-3.22	-0.07	-6.96	2.46	-24.59	-517.82	30.46
1240	4	0.09	0.79	-1.11	-2.95	-0.08	-5.52	1.31	-25.34	-598.60	52.21
1241	1	0.09	0.21	1.31	3.07	0.18	3.56	3.34	-43.06	-518.42	3.14
1241	2	0.32	0.21	2.22	3.29	0.12	4.57	1.89	-32.56	-529.37	-1.73
1241	3	0.32	0.79	2.46	3.58	0.05	4.91	-2.53	-35.35	-498.13	-25.18
1241	4	0.09	0.79	1.58	3.26	0.12	3.99	-2.03	-52.03	-510.27	-22.84
1242	1	0.13	0.21	-1.03	2.46	-0.26	3.51	2.71	-65.03	-525.18	-5.91
1242	2	0.47	0.21	0.33	2.67	0.01	5.01	2.14	-51.71	-512.94	5.94
1242	3	0.47	0.79	0.65	3.05	0.13	4.21	-6.93	-61.29	-519.70	-25.24
1242	4	0.13	0.79	-0.45	2.67	0.04	2.79	-0.32	-80.79	-551.65	-25.61
1243	1	0.18	0.21	-20.66	-4.94	1.70	3.88	2.76	-46.77	-376.33	-44.88
1243	2	0.67	0.21	-17.51	-4.84	3.65	7.12	5.65	-29.83	-358.52	-51.03
1243	3	0.67	0.79	-14.34	-5.44	1.79	7.28	3.35	-72.71	-379.59	-65.28
1243	4	0.18	0.79	-19.25	-4.38	1.36	3.46	1.97	-58.84	-327.49	-49.35
1244	1	0.21	0.21	-27.71	-11.89	1.02	16.23	-3.59	-20.53	-787.54	-30.16
1244	2	0.78	0.21	-23.14	-9.24	2.53	10.98	-2.68	-47.68	-593.72	-17.11
1244	3	0.78	0.79	-22.44	-5.89	4.23	12.56	0.11	-42.62	-524.34	-41.36
1244	4	0.21	0.79	-27.21	-8.94	3.30	14.07	32.66	-80.75	-863.17	111.87
1245	1	0.21	0.34	1.32	4.95	0.07	-0.83	18.55	-205.44	-18.26	-43.80
1245	2	0.79	0.34	0.79	5.09	0.39	-1.52	18.52	-181.33	11.73	-0.83
1245	3	0.79	1.28	4.59	21.70	0.03	-6.37	22.54	-337.47	-23.32	-142.76
1245	4	0.21	1.28	5.59	22.56	-0.04	2.32	22.59	-300.62	-8.23	-78.69
1246	1	0.21	0.29	-3.66	-17.68	0.04	-0.37	14.52	-251.36	6.55	-9.27
1246	2	0.79	0.29	-3.89	-17.74	0.05	-0.51	14.60	-230.11	20.40	3.57
1246	3	0.79	1.09	-1.56	-5.61	0.13	-0.16	13.91	-223.90	16.38	-27.39
1246	4	0.21	1.09	-1.15	-5.53	0.02	-0.23	15.07	-259.45	-0.74	-14.95
1247	1	0.21	0.32	-5.95	-29.03	0.08	0.18	4.91	-298.67	23.97	9.38
1247	2	0.79	0.32	-6.08	-29.09	0.08	-0.69	4.93	-323.43	16.61	59.38
1247	3	0.79	1.19	-5.10	-24.03	0.03	-0.67	6.86	-234.42	24.53	-6.68
1247	4	0.21	1.19	-4.96	-24.00	0.08	0.01	6.87	-241.16	8.95	7.75
1248	1	0.21	0.28	-5.59	-27.06	0.14	-0.22	-4.21	-279.69	14.01	-9.12
1248	2	0.79	0.28	-5.70	-27.10	0.16	-0.21	-4.25	-254.28	26.94	6.69
1248	3	0.79	1.06	-6.23	-29.86	0.13	-0.62	-2.83	-329.63	17.24	-61.34
1248	4	0.21	1.06	-6.12	-29.80	0.12	0.18	-2.76	-309.74	25.41	-9.84
1249	1	0.30	0.21	-1.38	-1.96	-1.65	0.45	-2.21	26.49	-573.22	-10.07
1249	2	1.10	0.21	-0.36	-2.47	-1.24	0.21	2.97	60.51	-341.18	-81.71
1249	3	1.10	0.79	-0.25	-2.27	-1.55	1.00	4.70	26.45	-391.48	-33.71
1249	4	0.30	0.79	-1.70	-1.89	-2.03	2.25	-1.69	42.58	-543.48	-36.47
1250	1	0.23	0.21	-1.97	-1.33	-1.04	-0.63	-1.56	21.73	-590.18	34.31
1250	2	0.86	0.21	-1.81	-1.71	-1.01	0.02	0.60	22.05	-593.72	1.03
1250	3	0.86	0.79	-2.21	-1.80	-1.23	-1.95	0.37	38.26	-545.04	4.82
1250	4	0.23	0.79	-1.89	-1.48	-1.39	-0.13	-0.61	27.28	-561.98	27.86
1251	1	0.09	0.21	2.01	0.87	-0.93	-0.73	0.73	18.27	-550.90	-42.13
1251	2	0.33	0.21	1.79	0.87	-0.48	-1.74	5.71	26.29	-479.87	-68.01
1251	3	0.33	0.79	1.41	0.97	-0.73	-2.62	5.27	8.03	-535.24	-29.88
1251	4	0.09	0.79	1.93	1.26	-1.30	-2.11	-1.82	19.09	-549.77	-35.24
1252	1	0.09	0.21	-0.01	0.94	-0.59	-6.08	-5.43	-5.85	-532.60	-96.54
1252	2	0.35	0.21	-1.22	0.70	-0.57	-5.56	3.45	-1.37	-402.01	91.24
1252	3	0.35	0.79	-0.99	-0.36	-1.04	-3.53	5.06	-22.86	-491.10	13.56
1252	4	0.09	0.79	-0.23	-0.10	-1.01	-3.45	-10.49	-26.80	-471.83	-30.83
1253	1	0.09	0.21	-0.64	-1.68	-0.53	-3.94	-0.51	8.75	-442.13	67.06
1253	2	0.33	0.21	-1.52	-1.83	-0.48	-4.56	7.75	-11.69	-521.61	49.69
1253	3	0.33	0.79	0.07	-0.08	-0.89	-0.14	10.15	-1.42	-508.16	61.73
1253	4	0.09	0.79	-0.05	-0.13	-0.91	0.18	-5.70	-6.61	-526.50	49.69
1254	1	0.09	0.21	0.93	2.00	-0.09	1.12	-5.10	-29.79	-511.65	-51.27
1254	2	0.32	0.21	1.63	2.01	-0.14	1.59	-2.76	-19.44	-514.50	-49.52
1254	3	0.32	0.79	-0.15	0.27	-0.46	1.37	2.09	-1.38	-504.13	-71.38
1254	4	0.09	0.79	-0.60	0.19	-0.52	1.07	-6.27	-3.98	-515.18	-73.50
1255	1	0.13	0.21	-0.62	1.81	0.20	1.76	-3.56	-61.69	-547.56	-47.07
1255	2	0.47	0.21	0.28	2.04	0.10	3.61	-3.15	-45.50	-517.82	-50.73
1255	3	0.47	0.79	-1.07	0.24	-0.07	2.44	-3.68	-8.78	-514.92	-70.71
1255	4	0.13	0.79	-1.73	0.13	0.36	1.47	-5.11	-9.45	-514.47	-59.10
1256	1	0.18	0.21	-19.47	-4.03	0.45	6.92	-2.86	-25.10	-311.72	-26.01
1256	2	0.67	0.21	-14.59	-5.21	-0.55	7.69	-1.86	-53.69	-382.11	-46.75
1256	3	0.67	0.79	-17.57	-3.81	-2.61	6.79	-3.74	-19.60	-349.42	-0.54
1256	4	0.18	0.79	-20.56	-3.19	-0.89	3.91	0.93	13.77	-248.21	30.90
1257	1	0.21	0.21	-25.02	2.31	2.59	-4.96	29.73	104.10	121.32	129.94
1257	2	0.78	0.21	-21.82	-0.71	3.13	-1.83	4.13	8.11	-386.98	-12.34
1257	3	0.78	0.79	-23.19	1.76	-0.82	0.43	-1.98	48.09	-326.99	67.15
1257	4	0.21	0.79	-25.33	4.61	-0.02	-7.49	-13.78	50.78	15.22	26.47
1258	1	0.21	0.34	-0.17	4.90	0.26	-0.94	15.12	-234.34	32.07	0.66
1258	2	0.79	0.34	-0.47	4.99	-0.27	-0.43	15.49	-212.70	58.41	-37.50
1258	3	0.79	1.28	1.75	20.34	-0.10	4.11	13.16	-66.21	34.12	-56.50
1258	4	0.21	1.28	2.13	20.70	-0.03	-5.37	12.62	-15.86	49.80	-130.76
1259	1	0.21	0.29	-3.98	-17.65	0.01	0.15	14.21	-233.01	32.11	5.07
1259	2	0.79	0.29	-4.17	-17.74	-0.10	-1.84	14.26	-212.25	45.21	-6.39
1259	3	0.79	1.09	-1.99	-5.59	-0.22	0.50	16.65	-177.20	46.47	-0.53
1259	4	0.21	1.09	-1.69	-5.51	0.03	-0.91	17.62	-214.31	30.61	-25.72
1260	1	0.21	0.32	-6.18	-29.16	0.07	-0.01	5.07	-175.96	42.81	59.11

1260	2	0.79	0.32	-6.34	-29.26	0.08	-0.72	5.11	-201.31	35.31	12.05
1260	3	0.79	1.19	-5.34	-24.17	0.00	-1.10	6.41	-239.06	46.37	11.75
1260	4	0.21	1.19	-5.19	-24.08	0.00	0.31	6.35	-244.71	31.28	-5.60
1261	1	0.21	0.28	-5.79	-27.12	0.17	-0 28	-4.31	-269.59	33.12	6.80
1261	2	0.79	0.28	-5.93	-27.17	0.17	-0.22	-4 33	-244.75	47.87	-8.65
1261	3	0.79	1.06	-6.49	-29.99	0.14	-0.70	-2.96	-201.91	35.45	-8.25
1261	4	0.21	1.06	-6.34	-29.91	0.13	0.01	-2.82	-181.56	43.81	-60.95
1262	1	0.30	0.21	-2.36	-1.70	-2.31	0.46	-5.23	25.69	-492.70	-37.06
1262	2	1.10	0.21	-0.85	-2.00	-2.52	-0 55	6.69	-5.99	-428.64	-16.04
1262	3	1.10	0.79	-1.79	-0.74	-1.70	11.15	9 73	-5.19	-454.94	-20.02
1262	4	0.30	0.79	-3.11	-0.93	-2.69	-3.38	-5.98	-5.08	-478.08	-12.49
1263	1	0.23	0.21	-1.69	-1.36	-1.64	-0.44	-1.07	15.45	-552.00	15.03
1263	2	0.86	0.21	-2.15	-1.28	-1.09	-0.83	5.46	21 57	-555.19	8.50
1263	3	0.86	0.79	-2.10	-0.72	-0.89	0.59	6.44	5.70	-528.86	-7.02
1263	4	0.23	0.79	-1.63	-1.33	-1.53	-0.17	-2.72	3.95	-548.25	8.35
1264	1	0.09	0.21	1.57	1.17	-1.52	-2.24	-1.51	8.15	-547.80	-21.91
1264	2	0.33	0.21	1.04	1.16	-0.99	-2.65	8.33	-3.28	-540.12	-7.48
1264	3	0.33	0.79	0.56	1.52	-0.81	-1.58	6.69	-7.71	-566.61	0.72
1264	4	0.09	0.79	1.05	1.53	-1.11	-2.07	-1.68	-3.27	-558.79	-7.54
1265	1	0.09	0.21	-0.43	-1.25	-1.06	-1.18	-10.35	-3.23	-536.98	-5.87
1265	2	0.35	0.21	-0.70	-1.19	-1.13	-0.61	6.01	-1.10	-542.70	-19.99
1265	3	0.35	0.79	-0.54	-2.22	-0.96	2.24	5.95	-4.63	-577.64	-8.81
1265	4	0.09	0.79	-0.97	-2.25	-0.91	2.16	-8.92	-3.76	-578.01	-18.57
1266	1	0.09	0.21	0.56	0.93	-0.90	2.95	-3.87	-6.81	-527.37	37.89
1266	2	0.33	0.21	1.22	1.07	-0.86	3.11	10.81	0.60	-528.92	59.45
1266	3	0.33	0.79	2.68	2.74	-0.67	5.38	8.26	4.76	-552.96	38.79
1266	4	0.09	0.79	1.54	2.50	-0.71	5.04	-3.70	-1.47	-564.72	27.75
1267	1	0.09	0.21	-2.03	-0.98	-0.56	2.91	-6.23	9.74	-515.30	-66.67
1267	2	0.32	0.21	-1.66	-0.90	-0.43	1.81	1.03	3.76	-527.74	-60.68
1267	3	0.32	0.79	-3.26	-2.32	-0.35	1.73	1.48	14.53	-541.84	-45.05
1267	4	0.09	0.79	-3.69	-2.39	-0.44	2.03	-4.51	22.95	-518.94	-46.85
1268	1	0.13	0.21	-3.06	-1.14	0.37	2.52	-4.91	25.20	-487.05	-50.73
1268	2	0.47	0.21	-2.43	-1.02	-0.13	1.01	-3.28	18.02	-506.70	-68.34
1268	3	0.47	0.79	-4.02	-2.44	-0.10	1.83	-2.68	32.76	-497.02	-44.18
1268	4	0.13	0.79	-4.76	-2.57	0.35	2.48	-4.62	46.18	-450 55	-32.56
1269	1	0.18	0.21	-22.03	-3.25	-1.25	3.04	-2.23	29.32	-256.46	43.18
1269	2	0.67	0.21	-20.02	-2.86	-2.95	2.26	-3.87	12.78	-314.73	21.20
1269	3	0.67	0.79	-23.12	-3.12	-2.40	2.23	-5.60	60.49	-278.32	26.89
1269	4	0.18	0.79	-23.98	-3.97	-1.12	3.34	-3.47	53.42	-232.36	50.09
1270	1	0.21	0.21	-27.22	-1.30	-1.69	3.82	-12.58	3.66	-119 39	3.60
1270	2	0.78	0.21	-24.70	0.03	-2 12	8.46	-2.64	46.21	-271.80	89.30
1270	3	0.78	0.79	-25.29	-2.33	-1.71	4.74	0.93	29.22	-273.61	56.90
1270	4	0.21	0.79	-27.60	-3.33	-1.39	6.69	-4.92	14.42	-182.91	19.04
1271	1	0.21	0.34	-0.01	5.11	-0.56	1.04	17.92	-160.62	59.88	-46.23
1271	2	0.79	0.34	0.27	4.80	-0.47	0.34	17.62	-152.83	40.66	-29.17
1271	3	0.79	1.28	4.02	21.86	-0 20	0.78	19.49	-94.42	17.69	-18.65
1271	4	0.21	1.28	3.25	20.92	-0.26	3.16	19.88	-65.23	22.99	-28.68
1272	1	0.21	0.29	-4.33	-17.91	-0.19	-0.25	14.55	-217 12	48.82	-9.27
1272	2	0.79	0.29	-4.45	-18.00	-0.21	-0.37	14.31	-207 01	53.93	-1.08
1272	3	0.79	1.09	-1.96	-5.72	-0.29	-0 26	16 22	-185 71	52.80	-14.42
1272	4	0.21	1.09	-2.11	-5.72	-0.25	-0 56	14.20	-208.89	44.86	-2.44
1273	1	0.21	0.32	-6.48	-29.34	0 07	-0 20	4.87	-269.25	36.33	1.40
1273	2	0.79	0.32	-6.72	-29.49	0.05	-1.13	4.47	-216 27	44.28	4.59
1273	3	0.79	1.19	-5.76	-24.46	-0.11	-0.98	7.13	-214.30	49.85	5.80
1273	4	0.21	1.19	-5.53	-24.27	-0.06	0.06	6.85	-214.33	54 72	14 92
1274	1	0.21	0.28	-6.05	-27.20	0.18	-0 40	-4.34	-226.85	51 75	-15 44
1274	2	0.79	0.28	-6.23	-27.26	0.18	-0.41	-4.61	-239.96	58 70	-2.79
1274	3	0.79	1.06	-6.82	-30.16	0.13	-0.73	-2.71	-219.61	45.29	-1.84
1274	4	0.21	1.06	-6.61	-30.06	0.14	0.01	-2.96	-214.22	35.38	3.94
1275	1	0.30	0.25	-3.43	0.02	-1.81	2.16	-2.86	-16.62	-482.11	-0.5
1275	2	1.10	0.37	-3.30	2.38	-2.07	-0.29	10.12	-20.27	-464.62	-26.6
1275	3	1.10	0.95	-8.59	2.12	-0.73	-5.96	-15.27	-39.71	-308.29	-13.82
1275	4	0.30	0.83	-2.92	0.93	-0.24	0.89	-2.49	-3.45	-487.78	3.65
1276	1	0.23	0.21	-1.59	-1.28	-1.24	-2.39	-1.83	-7.35	-550.61	5.20
1276	2	0.86	0.21	-2.53	-1.51	-0.57	-0.58	0.22	-2.24	-498.09	-2.75
1276	3	0.86	0.79	-3.03	-0.31	-0 56	0.72	7.86	-11.57	-520.91	-0.21
1276	4	0.23	0.79	-1.60	-1.17	-0.49	-1.66	-1.33	-12.09	-550.48	2.02
1277	1	0.09	0.21	0.68	1.58	-0.80	-0.34	-4.20	-7.54	-570.94	1.18
1277	2	0.33	0.21	0.29	1.70	-0.54	-0.12	4.76	-7.76	-582.66	3.65
1277	3	0.33	0.79	0.23	1.80	-0.12	-0.49	1 50	-12.97	-597.16	2.42
1277	4	0.09	0.79	0.51	1.85	-0.16	-0.50	0.70	-14.45	-566.36	2.72
1278	1	0.09	0.21	-1.35	-2.83	-0.64	4.21	-5.73	-5.63	-588.50	-17.27
1278	2	0.35	0.21	-0.53	-2.58	-0.64	3.76	3.64	-8.13	-585.93	-3.16
1278	3	0.35	0.79	-0.52	-2.87	-0.18	5.06	1.57	-10.34	-593.90	-0.87
1278	4	0.09	0.79	-1.58	-3.10	-0.17	4.93	-1.52	-7.01	-598.18	-5.21
1279	1	0.09	0.21	2.11	3.14	-0.48	5.77	-2.84	0.83	-584 47	18.33
1279	2	0.33	0.21	3.46	3.39	-0.47	6.45	5.15	6.86	-567.20	23.55
1279	3	0.33	0.79	3.99	3.79	-0.13	6.86	1.41	7.41	-574.55	6 42
1279	4	0.09	0.79	2.50	3.51	-0.14	6.73	-0.93	1 08	-592.91	5.32
1280	1	0.09	0.21	-4.59	-3.06	-0.31	2.56	-3.11	23.66	-516.99	-29.78
1280	2	0.32	0.21	-4.12	-2.97	-0.25	2.15	1.31	14.23	-549.32	-27.31
1280	3	0.32	0.79	-4.71	-3.33	-0.06	2.31	0.37	15.18	-552.87	-6.87
1280	4	0.09	0.79	-5.20	-3.43	-0.08	2.55	-0.41	22.61	-516.39	-4.79
1281	1	0.13	0.21	-5.72	-3.19	0.27	2.79	-1.89	43 70	-482.90	-16.27
1281	2	0.47	0.21	-4.95	-3.11	-0.06	1.57	-1.42	30.86	-497 38	-26 25
1281	3	0.47	0.79	-5.56	-3.48	-0.02	1.75	-0.39	29.75	-480.94	-6.19
1281	4	0.13	0.79	-6.35	-3.56	0.07	2.60	-1 25	37.53	417.04	-4 37
1282	1	0.18	0.21	-25.08	-4.25	-0.84	4.03	-0.01	62.29	-214.69	31.03
1282	2	0.67	0.21	-24.62	-3.29	-1.53	1.74	-1.27	77.87	250.44	18.70
1282	3	0.67	0.79	-25.23	-3.36	-0.43	2.19	-1.98	68.04	-242.30	5.56
1282	4	0.18	0.79	-25.83	-4.42	-0.24	3.03	-0.79	69.17	-210.29	10.20
1283	1	0.21	0.21	-27.87	-3.84	-0.55	5.94	-5.38	30.52	-220.38	20.93
1283	2	0.78	0.21	-25.76	-3.15	-1.23	2.14	-1.25	39.26	-286.62	23.48
1283	3	0.78	0.79	-26.55	-3.66	-0.39	3.80	0 33	52 36	-291.03	8.05
1283	4	0.21	0.79	-28.50	-4.76	-0.18	5.81	-1.04	29.93	-241.93	5.86
1284	1	0.21	0.34	0.35	4.73	-0 29	-0.36	16.94	-142.01	35.19	-15.93
1284	2	0.79	0.34	0.47	4.79	-0.16	0.83	18 02	-144.96	32 75	-4 35
1284	3	0.79	1.28	4.36	22.47	-0.05	0.74	20.66	-113.06	17.47	-2.37
1284	4	0.21	1.28	4.00	22.23	-0.09	1 01	19.66	-104 36	18.15	-10 54
1285	1	0.21	0.29	-4.54	-18.12	-0.19	-0 43	15.05	-203 80	51 91	1.93
1285	2	0.79	0.29	-4.92	-18.37	-0.08	-1.41	16.07	-201.22	52.36	8.46
1285	3	0.79	1.09	-2.01	-5.70	-0.12	-0 60	16 20	-177.04	45.79	-3 82
1285	4	0.21	1.09	-1.95	-5.72	-0.32	0.51	17 01	-181 79	49.17	-17.22
1286	1	0.21	0.32	-6.92	-29.61	0.03	-0.65	5.07	-212.67	40.21	2.69
1286	2	0.79	0.32	-7.40	-29.74	0.00	-1 59	5 97	-218 12	49.40	6.94
1286	3	0.79	1.19	-6.35	-24.70	-0.02	-1.39	5.74	-209 21	51 20	-0.40
1286	4	0.21	1.19	-5.89	-24.57	-0.08	-0.30	6.44	-210.29	50.23	-0 15
1287	1	0.21	0.28	-6.39	-27.27	0.17	-0.13	-4.72	-229.55	47.13	1.27
1287	2	0.79	0.28	-6.53	-27.19	0.08	-0.06	-4.65	-229.65	48.12	6.05
1287	3	0.79	1.06	-7.45	-30.51	0 06	-1 26	-4 71	-225.42	46 56	-0.24
1287	4	0.21	1.06	-7.03	-30.27	0 13	-0.65	-3.20	-222 80	47 29	-1.65
1288	1	0.36	0.04	0.90	0.49	0.20	21.03	-0.69	-148.22	7.42	6.79
1288	2	1.35	0.04	0.30	-2.53	-2.40	41.29	-13.79	-186.62	157.69	22.13
1288	3	1.35	0.16	-0.46	-2.69	-2.54	20.17	-21.52	-176.15	-156 14	14.69
1288	4	0.36	0.16	0.14	0.34	0.06	18.13	0.25	-144 65	3.31	-0 63
1289	1	0.32	0.04	-5.60	0.21	-0.05	81.19	-1.00	-166 34	-0.39	-2.14

1289	2	1.19	0.04	-5.59	0.25	0.69	-46.71	2.26	-157.91	41.80	-9.84
1289	3	1.19	0.16	-5.35	0.29	0.69	-41.17	6.40	-160.45	41.30	-7.60
1289	4	0.32	0.16	-5.35	0.26	-0.05	81.39	2.18	-168.88	-0.88	0.05
1290	1	0.28	0.04	-11.15	-0.04	0.16	125.94	-3.74	-163.23	1.50	1.51
1290	2	1.06	0.04	-11.28	-0.70	-0.15	-99.76	-3.35	-165.68	-10.76	3.74
1290	3	1.06	0.16	-11.40	-0.72	-0.19	-101.57	1.36	-164.85	-10.59	3.01
1290	4	0.28	0.16	-11.26	-0.06	0.12	126.38	2.88	-162.40	1.66	0.78
1291	1	0.36	0.08	12.50	0.30	0.92	54.41	3.43	445.46	44.03	-25.59
1291	2	1.35	0.08	66.87	-2.64	-12.02	54.74	-51.25	458.59	-35.54	-48.41
1291	3	1.35	0.32	66.63	-2.99	12.04	56.03	47.53	351.18	-42.01	45.32
1291	4	0.36	0.32	12.52	0.32	-1.10	53.97	0.70	364.60	44.18	22.49
1292	1	0.32	0.08	-44.91	-0.92	0.34	30.38	3.77	427.11	15.59	-19.28
1292	2	1.19	0.08	-17.41	1.81	2.30	30.48	8.70	438.96	-33.70	45.44
1292	3	1.19	0.32	-17.36	1.89	-2.45	34.00	-13.32	375.73	-31.91	-48.60
1292	4	0.32	0.32	-45.06	-0.94	-0.72	31.98	1.38	387.73	15.66	16.12
1293	1	0.28	0.08	58.28	-0.02	-1.53	9.61	8.14	420.35	-12.62	-8.59
1293	2	1.06	0.08	66.69	-0.02	0.08	9.05	-4.21	410.04	4.81	18.92
1293	3	1.06	0.32	66.90	0.01	-0.47	12.12	-1.92	406.87	4.70	-15.77
1293	4	0.28	0.32	58.10	-0.02	1.23	13.47	-2.27	396.52	-13.16	11.66
1294	1	0.17	0.12	27.96	-1.58	0.79	-7.90	0.39	-179.22	-41.09	15.24
1294	2	0.62	0.12	21.79	-0.19	0.35	-10.15	-0.96	-163.16	-83.65	15.50
1294	3	0.53	0.45	22.80	0.05	1.93	-10.53	-0.13	-165.11	-61.06	2.17
1294	4	0.14	0.44	28.23	-1.05	2.25	-8.54	3.58	-178.19	-57.19	27.89
1295	1	0.12	0.12	16.96	0.46	-0.14	-10.31	-0.03	-145.07	-129.76	6.59
1295	2	0.58	0.13	11.08	0.91	-0.85	-9.92	-1.06	-106.15	-196.37	-7.71
1295	3	0.37	0.50	12.90	1.26	0.68	-9.14	-2.33	-117.68	-153.54	-31.65
1295	4	-0.02	0.47	18.24	0.67	1.48	-11.11	0.31	-148.76	-91.28	-15.07
1296	1	0.08	0.14	7.59	0.79	-1.38	-8.57	0.41	-77.85	-243.75	-14.86
1296	2	0.53	0.16	3.59	0.41	-1.86	-7.51	-0.64	-45.49	-300.81	-17.12
1296	3	0.19	0.59	5.60	1.35	-1.12	-6.40	-0.48	-65.93	-262.68	-51.11
1296	4	-0.18	0.53	9.28	1.34	-0.14	-9.01	-1.44	-96.62	-196.92	-40.15
1297	1	0.13	0.12	28.63	-0.07	2.39	-9.21	6.85	-177.94	-35.19	24.01
1297	2	0.47	0.12	23.49	0.76	2.14	-12.37	2.83	-169.40	-37.60	-0.08
1297	3	0.39	0.45	26.24	1.18	3.47	-17.52	0.61	-141.73	-12.99	-13.42
1297	4	0.12	0.44	31.66	0.64	1.86	-25.52	5.22	-164.80	-9.75	10.26
1298	1	0.10	0.13	19.51	0.92	0.38	-13.76	2.47	-153.26	-58.59	-14.23
1298	2	0.43	0.14	14.06	1.22	0.08	-13.17	-1.22	-133.87	-108.45	-44.58
1298	3	0.27	0.53	16.16	1.26	2.89	-9.05	-1.76	-124.36	-36.52	-50.87
1298	4	0.00	0.48	22.37	0.94	2.43	-13.42	1.32	-133.57	-15.46	-18.01
1299	1	0.06	0.16	10.49	1.54	-0.93	-12.36	-0.62	-139.19	-129.43	-59.50
1299	2	0.39	0.18	6.38	1.79	-1.12	-10.45	-2.73	-119.15	-175.12	-90.93
1299	3	0.14	0.67	7.75	1.41	1.50	-6.39	-3.59	-141.83	-82.82	-88.14
1299	4	-0.12	0.59	12.56	1.05	1.80	-8.08	-1.69	-143.11	-39.81	-54.17
1300	1	0.16	0.12	-31.58	2.63	0.92	-4.76	0.20	-198.14	-36.46	-49.81
1300	2	0.61	0.12	-34.02	3.66	1.11	-1.02	0.80	-166.74	-101.66	-33.60
1300	3	0.52	0.45	-34.19	3.49	1.65	-1.86	-2.98	-202.50	-95.39	-58.75
1300	4	0.14	0.44	-31.52	2.18	2.11	-6.42	-2.45	-209.17	-51.78	-57.72
1301	1	0.12	0.12	-34.05	3.70	1.25	0.61	1.48	-219.01	-211.20	-110.55
1301	2	0.57	0.13	-32.28	2.55	1.76	2.09	0.74	-154.99	-193.35	-37.41
1301	3	0.36	0.50	-33.44	4.00	-0.28	-0.17	3.41	-162.21	-197.10	-91.30
1301	4	-0.01	0.47	-34.36	4.13	0.90	-1.51	-0.75	-182.71	-137.11	-78.35
1302	1	0.08	0.14	-30.69	1.81	2.28	1.93	1.51	-128.49	-255.26	-8.11
1302	2	0.52	0.16	-28.34	0.43	2.64	1.43	3.59	-95.40	-331.27	23.99
1302	3	0.19	0.58	-29.41	0.57	-0.19	-5.33	-1.01	-105.12	-319.77	-42.09
1302	4	-0.18	0.53	-31.26	3.11	-0.30	-4.03	1.94	-145.14	-262.35	-75.92
1303	1	0.13	0.12	-31.30	0.40	4.84	-5.57	-6.56	-197.76	-40.78	-36.53
1303	2	0.46	0.12	-33.93	2.25	4.72	0.58	-7.20	-206.98	-64.83	-63.87
1303	3	0.39	0.45	-36.11	0.23	0.65	-39.07	-10.42	-205.10	-20.09	-42.99
1303	4	0.12	0.44	-34.03	-0.57	2.90	-32.29	-5.09	-181.72	-10.83	-11.53
1304	1	0.10	0.13	-34.04	2.67	7.21	6.80	-5.56	-210.01	-83.80	-67.7
1304	2	0.43	0.14	-33.58	4.52	6.55	11.84	-3.30	-218.42	-153.73	-113.
1304	3	0.27	0.53	-34.77	1.51	-0.43	-44.47	-13.74	-236.75	-70.48	-92.60
1304	4	0.00	0.48	-36.01	0.61	1.71	-43.71	-11.39	-226.80	-32.57	-51.93
1305	1	0.06	0.16	-31.74	4.04	8.17	18.35	0.93	-206.34	-174.87	-116.57
1305	2	0.39	0.18	-29.31	4.68	6.70	16.56	9.87	-174.70	-269.77	-129.24
1305	3	0.14	0.66	-29.98	3.41	-0.65	-36.54	-17.75	-275.53	-155.53	-170.35
1305	4	-0.11	0.59	-33.05	2.70	1.12	-44.02	-14.08	-268.69	-87.09	-119.45
1306	1	0.36	0.12	-0.38	-27.86	-1.89	0.65	0.55	-372.03	-71.88	-23.28
1306	2	0.90	0.10	0.15	-25.86	-0.37	3.57	-0.84	-413.90	-61.31	12.93
1306	3	1.21	0.37	1.27	-25.65	1.70	2.37	1.00	-428.61	-78.44	65.88
1306	4	0.76	0.46	1.61	-26.29	-0.61	1.11	1.25	-370.36	-93.15	46.24
1307	1	0.30	0.09	0.48	-23.88	1.06	3.51	4.26	-458.49	-63.24	37.92
1307	2	0.85	0.07	-0.22	-19.62	2.40	5.10	4.57	-519.72	-87.00	68.83
1307	3	1.01	0.27	-0.74	-17.05	4.63	5.53	8.31	-573.52	-109.01	111.60
1307	4	0.54	0.32	1.73	-22.74	2.93	5.63	1.35	-491.14	-86.97	85.24
1308	1	0.25	0.07	-2.50	-15.33	2.12	3.49	9.69	-570.73	-107.91	96.45
1308	2	0.80	0.06	-4.68	-11.21	-1.45	-3.55	11.31	-596.38	-95.98	124.55
1308	3	0.83	0.22	-5.93	-7.31	-1.18	-1.49	12.06	-665.74	-94.23	123.32
1308	4	0.35	0.24	-3.40	-10.90	3.50	2.95	11.21	-635.88	-117.97	124.51
1309	1	0.27	0.16	-0.01	-26.96	11.45	14.32	-4.80	-391.05	-74.45	18.55
1309	2	0.66	0.13	-0.93	-20.96	12.48	14.80	3.15	-483.11	-71.54	18.39
1309	3	0.89	0.47	-5.75	-11.51	10.53	-38.83	18.69	-565.65	-78.75	155.69
1309	4	0.57	0.59	-3.50	-18.44	12.56	-30.87	23.37	-400.89	-103.25	163.48
1310	1	0.24	0.10	-1.31	-18.33	10.77	10.85	11.33	-548.67	-82.93	71.25
1310	2	0.65	0.08	-4.35	-10.10	8.21	0.06	10.57	-662.71	-91.88	75.39
1310	3	0.78	0.30	-6.43	-2.38	4.84	-29.65	11.67	-845.36	-67.19	149.30
1310	4	0.44	0.37	-4.83	-7.95	8.11	-37.40	17.00	-653.50	-98.68	204.05
1311	1	0.20	0.07	-5.06	-6.87	4.18	-0.17	14.49	-726.41	-102.16	131.07
1311	2	0.62	0.06	-7.07	-4.25	-1.50	-0.26	11.08	-746.25	-67.22	76.36
1311	3	0.64	0.23	-7.27	-0.61	-1.23	9.76	4.46	-881.52	-17.06	32.93
1311	4	0.29	0.25	-6.03	-2.59	2.97	-16.20	10.06	-891.07	-60.99	109.99
1312	1	0.20	0.06	-4.90	-12.11	-5.92	-0.85	10.95	-567.58	-47.49	133.45
1312	2	0.75	0.07	-4.11	-17.73	-9.24	-6.73	6.18	-491.01	14.99	119.27
1312	3	0.65	0.24	-4.69	-13.86	-10.63	-3.19	7.88	-492.51	5.30	83.86
1312	4	0.17	0.22	-6.43	-8.54	-6.29	1.16	11.23	-604.78	-45.30	104.35
1313	1	0.15	0.07	-2.98	-22.19	-9.47	-10.00	2.09	-424.00	-25.12	98.11
1313	2	0.70	0.09	-3.81	-25.02	-8.02	-4.04	6.24	-311.54	-181.74	79.70
1313	3	0.46	0.32	-1.87	-24.75	-9.43	-3.67	-0.34	-291.89	-88.53	31.26
1313	4	-0.01	0.27	-3.24	-20.32	-11.58	-6.15	5.56	-395.03	19.32	72.19
1314	1	0.10	0.10	-5.79	-25.82	-6.21	-5.98	0.38	-230.25	-297.97	72.97
1314	2	0.64	0.12	-6.90	-26.30	-2.93	-1.71	4.46	-173.03	-414.54	31.35
1314	3	0.24	0.46	-3.45	-25.74	-4.86	1.07	5.49	-113.31	-331.85	22.88
1314	4	-0.21	0.37	-3.18	-26.46	-7.93	-1.30	2.76	-196.03	-213.49	31.62
1315	1	0.16	0.06	-8.38	-4.34	-5.58	5.28	10.94	-681.38	-58.55	102.37
1315	2	0.58	0.07	-7.48	-9.43	-11.29	2.46	12.32	-478.36	7.72	71.03
1315	3	0.49	0.25	-9.91	-3.89	-6.65	44.66	12.78	-487.71	-7.14	-40.62
1315	4	0.14	0.23	-8.45	-0.51	-1.89	24.74	5.46	-765.39	-33.98	32.26
1316	1	0.12	0.08	-8.69	-12.00	-15.03	-0.96	7.23	-350.69	-5.64	99.34
1316	2	0.53	0.10	-6.51	-19.89	-16.75	-11.10	7.74	-237.24	-36.10	47.91
1316	3	0.33	0.37	-11.10	-10.20	-12.57	50.12	10.65	-118.09	-2.23	3.88
1316	4	-0.01	0.30	-12.11	-4.13	-9.00	51.34	14.23	-320.15	8.05	10.56
1317	1	0.07	0.13	-7.29	-20.40	-16.93	-12.79	1.66	-197.39	-122.06	2.09
1317	2	0.46	0.16	-6.33	-24.82	-14.53	-10.93	-4.64	-106.60	-237.16	-59.06
1317	3	0.16	0.59	-9.26	-18.80	-15.59	34.52	22.48	-23.83	-81.75	-41.77
1317	4	-0.16	0.47	-12.70	-12.83	-14.33	46.38	19.29	-47.16	-9.95	-0.11
1318	1	0.29	0.16	-26.04	-5.64	1.31	4.12	3.36	-414.23	-112.78	-10.64

1318	2	0.74	0.14	-27.63	-2.59	0.96	1.73	-0.56	-392.33	-15.61	11.41
1318	3	1.00	0.53	-28.92	-0.54	3.60	6.81	-0.93	-368.19	7.72	14.76
1318	4	0.63	0.58	-27.87	-3.77	4.64	7.51	-3.83	-368.88	-65.37	0.68
1319	1	0.25	0.13	-28.71	-0.75	0.75	2.56	-1.89	-382.35	25.81	25.76
1319	2	0.69	0.12	-29.09	1.29	0.47	3.59	-0.26	-369.10	38.47	47.26
1319	3	0.83	0.47	-29.62	1.89	0.91	6.07	-2.64	-362.66	18.35	37.71
1319	4	0.45	0.50	-30.10	0.96	2.72	4.11	1.20	-375.09	25.36	26.94
1320	1	0.20	0.12	-27.88	1.92	0.13	5.79	-0.81	-351.60	14.41	63.30
1320	2	0.65	0.12	-24.06	1.73	-0.17	8.46	-0.79	-325.98	-37.17	78.62
1320	3	0.68	0.44	-24.23	1.39	-1.06	10.21	-2.48	-332.64	-42.82	62.51
1320	4	0.29	0.45	-28.18	1.89	-0.22	6.45	-4.26	-346.65	-11.16	50.51
1321	1	0.22	0.18	-30.30	2.17	-1.70	-10.65	7.02	-305.34	-28.54	-44.40
1321	2	0.54	0.16	-31.11	1.94	-3.93	-10.45	-1.51	-333.97	11.30	-50.56
1321	3	0.72	0.59	-33.30	1.20	1.47	41.94	-14.88	-252.98	10.39	10.51
1321	4	0.46	0.66	-32.28	1.35	4.01	35.89	-19.85	-173.42	5.59	4.80
1322	1	0.19	0.14	-31.20	2.18	-2.94	-4.50	-6.07	-338.92	20.30	-22.09
1322	2	0.52	0.13	-29.91	1.26	-4.25	0.72	-5.97	-344.78	-4.07	-7.38
1322	3	0.62	0.48	-31.91	0.03	-0.31	40.37	-10.37	-383.66	-18.53	34.28
1322	4	0.35	0.53	-33.02	0.31	2.34	41.64	-13.43	-312.98	-10.30	37.88
1323	1	0.16	0.12	-28.28	1.12	-2.61	5.52	-7.27	-349.45	-25.42	36.52
1323	2	0.50	0.12	-24.28	0.11	-3.14	10.28	-5.36	-341.11	-39.24	41.34
1323	3	0.51	0.44	-26.46	-0.49	-1.95	30.76	-3.79	-397.48	-20.28	19.04
1323	4	0.23	0.45	-30.31	-0.12	0.20	36.23	-9.48	-401.33	-20.92	49.02
1324	1	0.17	0.12	-19.70	1.31	-0.28	10.95	-1.16	-307.84	-78.97	76.53
1324	2	0.62	0.12	-13.09	0.84	-0.26	11.97	0.21	-266.58	-144.99	56.94
1324	3	0.53	0.45	-14.37	0.49	-1.18	12.42	0.13	-281.40	-105.21	25.96
1324	4	0.14	0.44	-20.22	0.81	-1.35	11.68	-3.59	-311.78	-65.12	56.51
1325	1	0.12	0.12	-8.33	0.95	-0.12	12.05	-0.71	-224.59	-200.25	34.51
1325	2	0.58	0.13	-2.70	1.58	0.00	10.90	0.20	-162.52	-268.39	8.42
1325	3	0.37	0.50	-4.96	0.93	-0.39	10.65	1.58	-183.37	-220.40	-33.47
1325	4	-0.02	0.47	-9.94	0.56	-0.85	13.05	-0.76	-239.82	-151.64	-2.39
1326	1	0.08	0.14	0.73	2.30	0.02	10.17	-0.93	-121.07	-299.05	-2.50
1326	2	0.53	0.16	4.84	3.34	-0.01	8.64	0.09	-80.32	-307.44	-12.91
1326	3	0.19	0.59	1.84	2.45	0.20	8.97	-0.20	-94.52	-301.55	-46.63
1326	4	-0.18	0.53	-1.62	1.62	-0.01	11.13	0.34	-142.59	-268.73	-46.25
1327	1	0.13	0.12	-20.70	0.04	-1.48	12.46	-5.79	-323.52	-55.62	54.09
1327	2	0.47	0.12	-15.12	-0.21	-1.33	14.26	-1.95	-293.24	-70.89	17.53
1327	3	0.39	0.45	-17.20	-0.71	-2.25	19.02	0.46	-310.19	-24.86	-22.60
1327	4	0.12	0.44	-23.16	-0.49	-1.23	25.62	-4.17	-362.51	-18.76	20.79
1328	1	0.10	0.13	-11.09	-0.01	-0.08	14.13	-2.25	-270.77	-99.67	-9.90
1328	2	0.43	0.14	-6.13	0.52	0.29	13.61	0.13	-227.51	-155.49	-63.05
1328	3	0.27	0.53	-7.74	-0.28	-1.18	11.16	2.35	-251.14	-63.49	-80.39
1328	4	0.00	0.48	-13.26	-0.51	-1.39	15.78	-0.52	-279.80	-25.63	-30.76
1329	1	0.06	0.16	-3.20	0.95	0.69	11.93	-0.54	-206.58	-191.69	-95.48
1329	2	0.39	0.18	0.16	1.86	0.64	10.51	0.84	-168.37	-250.83	-121.67
1329	3	0.14	0.67	-1.09	0.85	0.66	7.62	2.02	-255.41	-150.14	-158.30
1329	4	-0.12	0.59	-4.60	0.19	-0.18	9.99	1.59	-259.74	-84.62	-103.07
1330	1	0.36	0.13	3.70	6.14	0.01	-0.27	-9.36	-299.36	-62.80	25.08
1330	2	0.90	0.10	4.00	5.94	-0.23	0.38	-7.38	-311.73	-58.76	54.86
1330	3	1.21	0.38	3.79	3.60	-0.79	0.51	-7.45	-342.88	-73.87	85.75
1330	4	0.77	0.47	3.11	3.32	-0.85	0.14	-8.12	-321.47	-82.57	64.23
1331	1	0.30	0.09	4.68	5.44	-0.42	0.29	-7.37	-330.96	-61.75	71.16
1331	2	0.85	0.08	5.52	4.37	-0.47	-0.91	-6.20	-360.72	-95.21	93.21
1331	3	1.01	0.28	5.59	2.91	-0.69	-1.43	-4.05	-414.94	-113.36	125.95
1331	4	0.54	0.33	4.72	3.51	-0.94	0.15	-6.51	-370.25	-88.66	101.66
1332	1	0.25	0.07	5.66	3.21	-0.15	-2.97	-2.98	-376.44	-94.31	117.59
1332	2	0.80	0.06	3.87	2.13	0.68	-5.20	-1.95	-405.28	-121.99	143.37
1332	3	0.83	0.24	3.98	1.22	0.68	-6.03	-0.61	-446.90	-99.30	112.78

1332	4	0.35	0.25	5.58	1.92	-0.36	-3.44	-2.75	-439.90	-107.75	139.88
1333	1	0.27	0.16	2.92	0.94	-0.19	4.49	-8.42	-351.11	-64.94	30
1333	2	0.66	0.13	4.27	1.79	-0.56	4.28	-5.85	-404.29	-60.48	40
1333	3	0.89	0.48	4.67	0.74	-1.24	1.95	-2.08	-504.52	-71.77	147.70
1333	4	0.57	0.60	2.50	-0.05	-0.50	4.20	-4.60	-372.61	-93.80	143.27
1334	1	0.24	0.10	5.14	2.02	-0.90	1.88	-4.69	-441.15	-83.24	88.99
1334	2	0.65	0.08	5.94	1.61	-0.54	-0.80	-3.19	-502.53	-76.04	93.09
1334	3	0.78	0.31	6.29	0.51	-0.97	-4.69	0.10	-667.61	-62.51	140.17
1334	4	0.44	0.38	5.48	0.83	-1.65	-0.68	-1.64	-559.09	-91.95	184.24
1335	1	0.20	0.07	5.68	1.11	-0.23	-3.91	-1.73	-526.01	-106.12	135.25
1335	2	0.62	0.06	4.06	0.85	0.85	-6.86	-1.71	-499.00	-43.55	81.81
1335	3	0.63	0.24	4.12	0.19	0.46	-12.60	-1.11	-588.10	-13.16	30.61
1335	4	0.29	0.26	5.80	0.34	-0.70	-7.55	0.49	-654.10	-52.14	130.09
1336	1	0.20	0.06	1.16	1.76	1.54	-5.70	-0.64	-380.08	-84.09	73.15
1336	2	0.75	0.07	-1.21	1.39	2.25	-2.89	-0.30	-288.97	-134.97	56.65
1336	3	0.65	0.25	-0.73	1.55	2.06	-4.41	-0.60	-272.15	-194.94	55.54
1336	4	0.17	0.24	1.69	1.42	1.61	-6.30	0.32	-415.52	-56.40	66.19
1337	1	0.15	0.08	-1.76	0.66	2.42	-1.57	0.72	-404.96	-244.51	-106.89
1337	2	0.70	0.09	-1.31	-0.55	2.39	-0.50	-3.14	-362.46	-6.10	-83.90
1337	3	0.46	0.33	-1.79	-0.64	1.78	-3.01	-2.51	-326.48	-71.74	-120.04
1337	4	-0.01	0.28	-1.59	0.86	2.06	-3.69	-0.58	-426.50	-117.36	-15.79
1338	1	0.10	0.10	-0.94	-1.43	2.21	-0.07	-6.05	-352.09	-30.69	-51.84
1338	2	0.64	0.13	-0.35	-2.25	2.03	0.60	-7.06	-323.46	-30.15	-25.56
1338	3	0.23	0.47	-1.17	-3.70	1.57	-1.78	-6.76	-288.84	-52.79	-63.58
1338	4	-0.21	0.38	-1.54	-2.04	1.63	-2.37	-4.54	-321.06	-59.62	-94.63
1339	1	0.16	0.06	2.24	0.68	1.47	-7.23	-0.80	-429.32	-70.66	79.75
1339	2	0.58	0.07	-0.06	1.14	2.18	-5.64	-1.55	-269.75	-80.09	-77.27
1339	3	0.49	0.26	0.60	0.38	1.08	-14.34	-2.08	-386.46	-11.41	-66.98
1339	4	0.14	0.24	2.63	0.16	0.60	-14.39	-0.04	-463.03	-24.39	27.95
1340	1	0.12	0.08	-0.80	0.60	2.17	-4.08	0.06	-393.21	-22.35	-36.62
1340	2	0.53	0.10	-1.48	-0.49	1.53	-3.49	-6.73	-338.54	-98.61	-78.73
1340	3	0.32	0.38	-1.22	0.07	0.53	-10.02	-3.20	-285.65	-58.43	-82.31
1340	4	-0.01	0.31	-0.03	0.64	1.13	-13.67	-2.15	-357.93	-36.47	-56.87
1341	1	0.07	0.13	-1.46	-2.29	0.76	-4.05	-2.71	-320.85	-8.89	-36.25
1341	2	0.46	0.16	-1.70	-4.73	-0.33	-4.90	-5.39	-277.77	-42.66	-35.04
1341	3	0.16	0.60	-2.93	-3.14	-1.98	-7.19	-3.70	-202.92	-48.06	-60.47
1341	4	-0.16	0.48	-1.79	-0.69	-0.17	-8.53	-2.21	-253.38	-41.76	-97.48
1342	1	0.13	0.21	8.39	4.22	-0.20	8.23	-1.79	-52.79	-292.15	-17.69
1342	2	0.47	0.21	11.07	4.85	-0.25	7.52	-0.23	-37.09	-244.89	-16.30
1342	3	0.47	0.79	10.29	4.85	-0.26	7.05	1.15	-37.12	-250.07	-37.69
1342	4	0.13	0.79	7.79	4.33	-0.08	8.04	-6.14	-43.52	-288.96	-43.43
1343	1	0.09	0.21	12.42	5.21	-0.39	5.07	-2.02	-30.91	-216.45	-15.85
1343	2	0.32	0.21	13.56	5.47	-0.25	4.46	1.86	-23.86	-183.53	-13.37
1343	3	0.32	0.79	12.72	5.50	-0.30	4.16	3.92	-23.25	-190.33	-28.74
1343	4	0.09	0.79	11.67	5.24	-0.44	5.01	-1.69	-29.54	-221.67	-32.27
1344	1	0.09	0.21	-12.01	-6.79	-0.47	-6.16	-2.80	-12.26	-185.10	9.33
1344	2	0.33	0.21	-13.45	-6.99	-0.45	-5.76	4.77	-19.10	-164.19	11.85
1344	3	0.33	0.79	-12.63	-6.67	-0.46	-4.79	4.50	-16.32	-171.53	27.33
1344	4	0.09	0.79	-11.45	-6.62	-0.49	-5.58	-4.86	-11.68	-154.10	22.61
1345	1	0.09	0.21	10.52	6.34	-0.54	-10.52	-5.18	-3.02	-133.73	-7.19
1345	2	0.35	0.21	7.86	5.95	-0.55	-10.98	2.81	2.98	-142.69	-3.64
1345	3	0.35	0.79	7.62	5.70	-0.63	-9.93	5.00	1.71	-151.52	-19.77
1345	4	0.09	0.79	10.03	6.09	-0.64	-9.52	-5.03	-3.00	-142.81	-19.06
1346	1	0.09	0.21	-4.82	-3.60	-0.68	-6.25	-0.58	13.67	-149.98	-1.41
1346	2	0.33	0.21	-6.30	-3.87	-0.38	-6.75	4.80	10.47	-142.21	0.99
1346	3	0.33	0.79	-6.14	-3.64	-0.59	-6.62	5.89	10.11	-159.59	10.33
1346	4	0.09	0.79	-4.73	-3.22	-0.98	-6.09	-2.69	12.30	-182.73	6.05
1347	1	0.23	0.21	3.68	2.49	-0.79	-3.99	-1.48	17.62	-205.39	0.07

1347	2	0.86	0.21	2.13	1.30	-0.76	-3.32	4.74	21.01	-279.68	1.08
1347	3	0.86	0.79	1.96	1.73	-1.18	-2.43	0.12	16.54	-261.80	3.23
1347	4	0.23	0.79	3.65	2.41	-1.38	-3.53	-2.31	15.52	-210.38	-3.01
1348	1	0.30	0.17	1.20	-0.04	-0.47	-2.48	-1.90	17.90	-321.05	5.59
1348	2	1.10	0.05	3.89	-1.59	-0.93	3.79	-6.75	32.59	-361.44	-14.50
1348	3	1.10	0.63	1.37	-1.10	-1.54	0.41	5.17	10.96	-395.48	1.91
1348	4	0.30	0.75	1.46	0.27	-1.65	-2.83	-1.44	17.65	-325.46	2.27
1349	1	0.18	0.21	-25.34	-15.16	1.83	13.59	5.57	-585.83	-375.86	-88.78
1349	2	0.67	0.21	-24.81	-10.01	2.36	6.29	2.32	-468.27	-234.14	-46.43
1349	3	0.67	0.79	-24.98	-7.83	6.46	6.01	0.39	-354.08	-302.34	-110.08
1349	4	0.18	0.79	-25.39	-10.09	6.13	2.90	13.56	-389.89	-474.59	-172.39
1350	1	0.21	0.21	-40.60	-20.20	1.78	39.65	6.62	-989.77	-790.91	-71.32
1350	2	0.78	0.21	-27.14	-12.83	2.35	18.09	3.72	-716.53	-400.77	-76.37
1350	3	0.78	0.79	-29.46	-9.34	5.26	15.22	10.64	-467.72	-420.87	-240.36
1350	4	0.21	0.79	-33.62	-11.13	2.40	16.68	39.12	-475.12	-638.99	-245.30
1351	1	0.21	0.34	8.67	8.20	1.38	0.44	18.75	-300.90	-180.19	24.92
1351	2	0.79	0.34	6.13	10.60	3.12	1.42	25.58	-301.86	-134.39	59.12
1351	3	0.79	1.28	10.30	28.66	2.04	-46.37	24.61	-462.43	-129.53	-0.22
1351	4	0.21	1.28	19.09	33.75	1.28	5.58	43.70	-537.72	-215.96	12.50
1352	1	0.21	0.29	0.30	-13.07	0.27	0.57	13.76	-249.10	-115.76	13.43
1352	2	0.79	0.29	-0.20	-12.70	0.79	0.21	15.73	-254.17	-102.20	26.64
1352	3	0.79	1.09	2.75	-1.31	1.05	-2.45	9.40	-298.83	-117.60	28.82
1352	4	0.21	1.09	4.00	-0.54	0.05	-6.58	21.06	-275.57	-140.04	19.56
1353	1	0.21	0.32	-3.06	-24.26	0.08	0.45	5.44	-229.87	-90.46	5.67
1353	2	0.79	0.32	-3.22	-24.13	0.26	-0.71	5.43	-232.90	-85.36	11.36
1353	3	0.79	1.19	-1.84	-18.99	0.36	-1.59	7.71	-242.06	-94.08	17.76
1353	4	0.21	1.19	-1.49	-18.93	0.14	0.27	7.73	-242.26	-102.19	8.51
1354	1	0.21	0.28	-3.25	-23.52	0.02	-0.02	-2.97	-222.79	-81.18	1.33
1354	2	0.79	0.28	-3.35	-23.50	0.08	-0.20	-3.01	-225.08	-77.90	2.97
1354	3	0.79	1.06	-3.61	-25.35	0.12	-0.20	-1.62	-229.26	-81.04	7.18
1354	4	0.21	1.06	-3.48	-25.34	0.01	0.03	-1.41	-225.62	-85.19	3.99
1355	1	0.30	0.21	1.51	0.64	-2.34	1.03	-4.51	6.41	-314.17	2.38
1355	2	1.10	0.21	0.66	-0.01	-1.56	-5.55	6.13	-4.26	-396.98	11.67
1355	3	1.10	0.79	0.29	0.40	-2.16	0.08	5.44	-3.33	-386.94	8.83
1355	4	0.30	0.79	1.19	0.68	-2.49	-1.42	-4.32	1.02	-315.26	13.90
1356	1	0.23	0.21	3.45	2.21	-1.74	-4.11	-3.25	14.67	-215.37	-3.44
1356	2	0.86	0.21	1.71	1.14	-1.53	-3.94	4.08	10.56	-277.96	7.47
1356	3	0.86	0.79	1.87	1.07	-1.92	-2.58	3.90	7.38	-284.96	9.28
1356	4	0.23	0.79	3.23	1.98	-2.27	-3.62	-3.21	10.93	-230.10	-2.55
1357	1	0.09	0.21	-4.58	-3.27	-1.25	-5.26	-1.58	12.97	-187.74	11.63
1357	2	0.33	0.21	-5.82	-3.51	-0.74	-5.91	7.14	9.53	-160.80	17.47
1357	3	0.33	0.79	-5.29	-3.15	-1.03	-6.37	10.57	5.66	-180.44	23.85
1357	4	0.09	0.79	-4.27	-2.72	-1.90	-4.26	-2.10	10.40	-206.06	13.14
1358	1	0.09	0.21	9.58	6.16	-0.76	-9.79	-6.42	-2.58	-150.68	-29.21
1358	2	0.35	0.21	7.21	5.68	-0.76	-9.64	6.44	2.60	-162.43	-21.85
1358	3	0.35	0.79	6.41	5.79	-1.11	-8.13	8.66	3.92	-183.59	-32.13
1358	4	0.09	0.79	8.74	6.06	-1.19	-10.73	-9.07	-4.93	-170.85	-43.19
1359	1	0.09	0.21	-10.94	-5.90	-0.57	-5.95	-5.96	-13.29	-160.56	32.65
1359	2	0.33	0.21	-12.24	-7.09	-0.54	-5.95	3.42	-20.42	-178.28	35.91
1359	3	0.33	0.79	-11.40	-7.31	-0.82	-6.51	8.11	-25.46	-189.39	60.02
1359	4	0.09	0.79	-9.82	-7.69	-0.54	-4.12	-8.29	-11.08	-177.80	51.36
1360	1	0.09	0.21	11.07	5.70	-0.53	5.16	-1.58	-30.81	-230.58	-45.11
1360	2	0.32	0.21	12.26	5.94	-0.36	4.94	5.57	-20.19	-197.17	-39.01
1360	3	0.32	0.79	11.43	6.81	-0.55	5.61	6.70	-37.49	-207.60	-63.02
1360	4	0.09	0.79	9.76	6.38	-0.77	5.18	-7.87	-49.75	-244.67	-65.88
1361	1	0.13	0.21	7.14	4.89	-0.85	7.35	-9.64	-54.41	-302.42	-57.58
1361	2	0.47	0.21	9.66	5.43	-0.29	7.20	3.24	-41.29	-257.21	-49.64
1361	3	0.47	0.79	8.42	6.08	-0.45	8.09	1.31	-44.27	-271.24	-75.38

1361	4	0.13	0.79	5.72	5.62	-0.07	6.05	-1.36	-83.37	-325.08	-80.74
1362	1	0.18	0.21	-26.68	-6.36	7.01	6.94	19.25	-206.24	-593.41	-190.61
1362	2	0.67	0.21	-25.71	-5.31	8.26	1.36	4.37	-205.78	-371.72	-129.7
1362	3	0.67	0.79	-23.55	-3.14	8.57	2.30	3.29	-44.25	-463.18	-133.22
1362	4	0.18	0.79	-25.92	-2.53	5.34	5.17	10.16	-43.87	-523.54	-177.91
1363	1	0.21	0.21	-29.56	-2.12	1.43	-18.56	12.86	-76.39	-485.51	-108.78
1363	2	0.78	0.21	-28.32	-4.79	4.47	-0.35	9.24	-161.66	-499.25	-239.99
1363	3	0.78	0.79	-27.10	-3.20	2.86	-2.14	4.30	4.04	-462.04	-140.77
1363	4	0.21	0.79	-27.48	-1.94	1.08	-7.82	-1.79	36.30	-391.49	-64.81
1364	1	0.21	0.34	2.67	10.56	2.25	-8.27	14.65	-342.44	-80.15	59.09
1364	2	0.79	0.34	0.74	9.75	0.67	-5.37	12.16	-330.28	-26.62	24.30
1364	3	0.79	1.28	1.81	23.09	-0.34	4.37	9.12	-296.15	3.62	-31.10
1364	4	0.21	1.28	0.98	24.63	0.61	-2.76	-1.98	-362.48	-43.61	-23.53
1365	1	0.21	0.29	-0.70	-12.22	0.94	-0.40	14.59	-262.77	-87.10	38.73
1365	2	0.79	0.29	-1.61	-12.39	0.77	-2.08	12.87	-268.25	-62.85	28.42
1365	3	0.79	1.09	-0.17	-0.66	1.00	2.56	17.70	-284.78	-53.23	36.38
1365	4	0.21	1.09	2.08	-0.96	1.51	-2.97	18.55	-276.13	-92.72	31.85
1366	1	0.21	0.32	-3.44	-24.10	0.31	0.31	5.36	-235.64	-77.28	14.09
1366	2	0.79	0.32	-3.78	-24.05	0.35	-0.46	5.77	-241.64	-69.42	15.21
1366	3	0.79	1.19	-2.54	-18.61	0.71	-2.15	6.44	-252.68	-64.34	23.22
1366	4	0.21	1.19	-2.26	-18.96	0.52	0.43	6.36	-248.29	-93.15	22.97
1367	1	0.21	0.28	-3.48	-23.45	0.10	-0.06	-3.12	-227.86	-73.23	3.77
1367	2	0.79	0.28	-3.70	-23.39	0.09	-0.30	-3.01	-231.85	-68.96	4.64
1367	3	0.79	1.06	-4.06	-25.23	0.26	-0.40	-1.79	-226.06	-65.02	10.76
1367	4	0.21	1.06	-3.76	-25.31	0.20	-0.53	-1.32	-231.37	-75.25	9.15
1368	1	0.30	0.21	0.97	0.60	-2.55	-2.43	-2.01	-0.15	-321.74	16.48
1368	2	1.10	0.21	0.03	0.48	-1.84	-0.48	5.01	9.29	-379.62	7.20
1368	3	1.10	0.79	0.09	0.49	-1.82	-0.26	4.60	8.33	-362.75	7.37
1368	4	0.30	0.79	1.05	0.54	-2.58	-1.63	-3.05	-1.77	-320.85	17.13
1369	1	0.23	0.21	3.32	1.58	-2.55	-3.14	-3.11	8.54	-293.45	-0.46
1369	2	0.86	0.21	2.03	1.04	-2.20	-1.46	2.43	4.18	-284.85	11.72
1369	3	0.86	0.79	2.09	0.74	-2.27	-2.34	3.02	-3.86	-245.22	14.59
1369	4	0.23	0.79	3.73	1.04	-2.69	-2.39	-3.15	-3.96	-262.66	1.01
1370	1	0.09	0.21	-4.12	-2.40	-2.38	-3.82	-2.29	7.29	-225.94	13.96
1370	2	0.33	0.21	-4.93	-2.53	-1.38	-4.43	14.09	7.10	-203.08	26.91
1370	3	0.33	0.79	-5.19	-1.41	-1.62	-2.06	16.55	-2.30	-243.25	28.03
1370	4	0.09	0.79	-4.51	-1.15	-2.76	-3.29	-2.60	-3.49	-253.93	12.13
1371	1	0.09	0.21	7.62	5.52	-1.67	-9.43	-16.82	-5.27	-189.96	-52.12
1371	2	0.35	0.21	5.87	5.18	-1.71	-7.98	10.52	0.26	-209.52	-40.36
1371	3	0.35	0.79	5.58	2.31	-2.41	-2.47	11.34	-4.59	-260.43	-43.98
1371	4	0.09	0.79	5.69	2.41	-2.37	-1.76	-25.86	-2.16	-247.13	-73.51
1372	1	0.09	0.21	-8.85	-7.66	-1.27	-5.89	-8.64	-20.25	-197.40	70.05
1372	2	0.33	0.21	-10.11	-7.89	-1.19	-8.52	11.97	-34.16	-206.34	79.57
1372	3	0.33	0.79	-6.09	-3.85	-1.94	-4.53	30.17	-17.67	-236.63	129.25
1372	4	0.09	0.79	-6.25	-3.91	-2.10	-2.50	-5.45	-17.01	-252.43	94.54
1373	1	0.09	0.21	8.55	6.37	-0.94	6.01	-6.97	-56.25	-286.37	-94.39
1373	2	0.32	0.21	10.04	6.78	-0.67	7.99	6.19	-40.60	-214.69	-80.90
1373	3	0.32	0.79	6.08	4.21	-0.90	4.56	0.99	-53.82	-235.41	-139.85
1373	4	0.09	0.79	5.56	3.90	-1.27	1.90	-13.20	-78.04	-248.58	-120.27
1374	1	0.13	0.21	4.56	5.72	-0.31	6.07	-3.86	-90.38	-369.12	-108.61
1374	2	0.47	0.21	6.95	6.08	-0.54	7.04	-0.52	-74.20	-290.25	-99.27
1374	3	0.47	0.79	4.38	3.66	-0.76	4.14	-4.09	-103.30	-294.70	-105.89
1374	4	0.13	0.79	3.10	3.74	-0.97	3.67	-7.17	-42.45	-358.57	-157.21
1375	1	0.18	0.21	-24.07	-2.50	4.47	0.84	9.65	0.29	-535.12	-150.54
1375	2	0.67	0.21	-20.19	-3.23	7.83	7.91	9.41	-3.65	-509.79	-148.24
1375	3	0.67	0.79	-16.38	-3.87	5.21	9.02	2.81	-36.86	-540.61	-144.38
1375	4	0.18	0.79	-22.65	-2.80	3.21	6.69	7.94	-12.51	-499.10	-131.39
1376	1	0.21	0.21	-27.96	-1.95	0.23	8.56	1.07	16.60	-349.60	-85.10

1376	2	0.78	0.21	-26.70	-3.90	1.97	4.68	0.89	9.63	-393.09	-116.41
1376	3	0.78	0.79	-25.09	-3.79	1.43	4.80	1.63	-0.35	-348.68	-105.86
1376	4	0.21	0.79	-28.00	-4.32	0.33	5.15	1.76	16.57	-305.55	-67.59
1377	1	0.21	0.34	0.88	9.34	-0.01	1.35	15.92	-301.57	-9.75	5.64
1377	2	0.79	0.34	0.71	8.42	-0.24	-2.31	14.88	-284.62	3.89	-3.88
1377	3	0.79	1.28	3.67	23.16	-0.47	0.01	16.63	-251.72	11.36	-38.84
1377	4	0.21	1.28	3.35	22.89	-0.50	1.97	19.43	-281.73	7.11	-32.97
1378	1	0.21	0.29	-2.22	-12.61	0.53	-1.51	13.07	-268.81	-43.67	23.54
1378	2	0.79	0.29	-2.61	-12.44	0.36	-0.54	13.42	-269.27	-25.58	16.15
1378	3	0.79	1.09	-0.70	-0.96	0.33	0.16	14.23	-282.38	-10.03	9.31
1378	4	0.21	1.09	-0.48	-0.71	0.77	-3.52	11.82	-291.90	-31.05	26.93
1379	1	0.21	0.32	-4.02	-23.96	0.36	-0.67	5.08	-244.68	-55.54	14.74
1379	2	0.79	0.32	-4.37	-23.90	0.38	-0.87	4.95	-248.20	-42.26	12.45
1379	3	0.79	1.19	-3.68	-18.69	0.34	-0.99	6.58	-261.32	-34.69	15.43
1379	4	0.21	1.19	-3.18	-18.55	0.58	0.96	7.45	-257.47	-51.12	21.53
1380	1	0.21	0.28	-3.88	-23.35	0.09	-0.33	-2.96	-234.93	-56.79	4.87
1380	2	0.79	0.28	-4.12	-23.30	0.11	-0.30	-3.01	-238.47	-46.28	4.95
1380	3	0.79	1.06	-4.53	-25.11	0.22	-0.58	-1.64	-242.89	-44.89	9.03
1380	4	0.21	1.06	-4.24	-25.17	0.27	0.22	-1.69	-239.43	-56.46	10.32
1381	1	0.30	0.21	1.08	0.53	-2.46	-1.64	-3.00	-4.50	-321.06	14.22
1381	2	1.10	0.21	0.11	0.43	-1.78	-0.71	4.50	-0.53	-353.72	7.11
1381	3	1.10	0.79	0.12	0.35	-1.75	-0.49	4.41	-1.15	-344.55	4.98
1381	4	0.30	0.79	1.09	0.45	-2.33	-1.20	-3.29	-7.65	-320.61	9.23
1382	1	0.23	0.21	4.03	0.50	-2.51	-2.96	-3.00	-12.21	-276.03	0.27
1382	2	0.86	0.21	2.25	0.60	-2.16	-1.86	2.93	-9.70	-296.43	12.86
1382	3	0.86	0.79	2.22	0.43	-1.90	-2.60	2.66	-13.27	-302.09	7.58
1382	4	0.23	0.79	4.24	0.23	-2.00	-2.79	-2.64	-19.40	-290.69	-2.49
1383	1	0.09	0.21	-5.26	-0.47	-2.51	-1.24	-3.26	-13.76	-276.97	10.36
1383	2	0.33	0.21	-5.86	-0.34	-1.49	-1.87	14.60	-12.66	-276.55	24.81
1383	3	0.33	0.79	-6.24	0.10	-0.97	-1.27	8.94	-19.57	-305.42	17.37
1383	4	0.09	0.79	-5.57	0.11	-1.58	-1.60	-3.30	-20.68	-297.92	10.64
1384	1	0.09	0.21	4.78	-1.03	-2.25	5.72	-23.95	-2.56	-305.60	-65.19
1384	2	0.35	0.21	5.63	-0.81	-2.28	5.51	11.28	-7.19	-301.92	-38.64
1384	3	0.35	0.79	5.84	-2.34	-1.17	8.63	10.54	-12.84	-339.41	-25.20
1384	4	0.09	0.79	4.11	-2.71	-1.20	10.23	-8.93	-3.66	-350.31	-33.64
1385	1	0.09	0.21	-3.46	1.97	-2.20	7.27	-5.78	18.45	-318.35	92.33
1385	2	0.33	0.21	-2.33	2.09	-2.10	9.30	31.45	25.31	-312.18	128.73
1385	3	0.33	0.79	0.17	5.55	-1.11	16.65	8.76	46.84	-385.50	50.99
1385	4	0.09	0.79	-2.32	4.99	-1.17	12.16	-11.30	25.93	-374.22	42.69
1386	1	0.09	0.21	1.92	-0.56	-1.62	-1.50	-18.33	50.78	-248.71	-223.46
1386	2	0.32	0.21	1.80	-0.94	-1.14	-4.07	0.44	48.68	-297.98	-168.16
1386	3	0.32	0.79	-0.95	-4.02	-1.12	-5.91	11.48	118.05	-380.40	-65.97
1386	4	0.09	0.79	-0.34	-3.32	-2.07	-1.02	-2.96	165.06	-353.02	-79.25
1387	1	0.13	0.21	1.96	0.80	-1.65	-0.99	-7.13	-169.46	-310.86	-105.63
1387	2	0.47	0.21	2.38	0.26	-1.26	-1.96	-4.73	-185.05	-252.84	-168.66
1387	3	0.47	0.79	0.42	-2.72	-2.12	-5.89	2.16	-84.84	-325.42	-58.08
1387	4	0.13	0.79	1.21	-1.68	-2.51	-2.85	-3.20	-259.90	-296.26	-16.80
1388	1	0.18	0.21	-22.00	-2.18	1.93	7.58	3.10	-44.71	-467.26	-104.74
1388	2	0.67	0.21	-15.80	-3.53	2.29	9.78	-1.09	-79.65	-541.50	-120.70
1388	3	0.67	0.79	-18.41	-1.73	-0.35	8.61	-3.18	-88.68	-517.20	-74.01
1388	4	0.18	0.79	-22.36	-1.62	0.93	5.62	1.26	-48.98	-444.22	-56.10
1389	1	0.21	0.21	-27.95	-4.20	0.65	4.04	2.33	11.73	-281.71	-57.93
1389	2	0.78	0.21	-24.61	-3.68	1.28	4.90	1.63	-12.39	-328.64	-85.71
1389	3	0.78	0.79	-24.92	-3.74	1.07	5.74	-1.21	-18.37	-312.20	-47.06
1389	4	0.21	0.79	-27.82	-4.21	0.65	4.65	2.12	13.74	-262.34	-38.31
1390	1	0.21	0.34	0.61	8.08	-0.27	-0.92	14.30	-274.10	10.10	-10.10
1390	2	0.79	0.34	0.61	8.00	-0.44	-0.05	15.48	-263.56	15.14	-17.99
1390	3	0.79	1.28	3.44	23.06	-0.40	0.32	16.48	-220.78	14.85	-30.51
1390	4	0.21	1.28	3.44	23.17	-0.35	0.67	16.10	-234.26	13.20	-36.63
1391	1	0.21	0.29	-2.78	-12.45	0.21	-0.38	13.65	-269.42	-16.53	9.26
1391	2	0.79	0.29	-2.98	-12.65	-0.04	-1.18	13.18	-265.68	-6.37	-0.61
1391	3	0.79	1.09	-1.08	-1.49	-0.19	0.15	14.01	-267.86	6.10	-8.46
1391	4	0.21	1.09	-0.99	-1.20	0.00	-0.46	14.76	-275.70	-0.77	0.35
1392	1	0.21	0.32	-4.60	-23.91	0.20	0.04	5.10	-250.38	-33.52	9.62
1392	2	0.79	0.32	-4.80	-23.94	0.09	-0.77	5.07	-250.73	-23.38	5.01
1392	3	0.79	1.19	-3.97	-18.78	0.10	-0.46	6.42	-258.57	-14.83	3.06
1392	4	0.21	1.19	-3.77	-18.73	0.22	0.01	6.16	-259.81	-24.35	9.64
1393	1	0.21	0.28	-4.30	-23.28	0.11	-0.29	-3.19	-240.54	-38.57	4.72
1393	2	0.79	0.28	-4.50	-23.27	0.09	-0.26	-3.13	-242.12	-29.11	4.09
1393	3	0.79	1.06	-4.92	-25.12	0.13	-0.47	-1.77	-245.76	-27.00	5.10
1393	4	0.21	1.06	-4.73	-25.10	0.18	-0.11	-1.70	-244.57	-36.71	7.43
1394	1	0.30	0.21	0.98	0.28	-2.23	-1.66	-3.97	-8.48	-319.47	5.48
1394	2	1.10	0.21	-0.04	0.28	-1.90	-0.79	4.44	-2.39	-340.68	2.14
1394	3	1.10	0.79	-0.21	0.20	-1.56	2.67	4.47	-2.72	-338.25	-2.32
1394	4	0.30	0.79	0.62	0.09	-2.16	-4.20	-4.59	-6.13	-320.77	2.37
1395	1	0.23	0.21	4.13	0.40	-1.61	-2.78	-2.85	-18.56	-298.17	-5.29
1395	2	0.86	0.21	2.14	0.47	-1.67	-2.33	2.92	-13.20	-307.64	2.95
1395	3	0.86	0.79	1.93	0.38	-1.67	-0.28	3.80	-11.44	-311.76	-2.79
1395	4	0.23	0.79	3.64	0.64	-1.31	-3.15	-3.32	-12.26	-304.53	-6.67
1396	1	0.09	0.21	-5.24	-0.29	-1.00	-2.58	-3.83	-19.82	-306.72	10.02
1396	2	0.33	0.21	-5.94	-0.31	-0.55	-1.06	4.66	-18.29	-312.10	13.11
1396	3	0.33	0.79	-5.30	-0.74	-0.37	-3.00	3.57	-12.25	-313.45	8.96
1396	4	0.09	0.79	-4.60	-0.63	-0.67	-2.79	-2.36	-13.15	-312.66	9.22
1397	1	0.09	0.21	4.12	-1.30	-0.45	7.55	0.25	-5.61	-354.00	-13.04
1397	2	0.35	0.21	5.71	-1.15	-0.44	5.39	8.05	-15.51	-347.29	-13.15
1397	3	0.35	0.79	5.35	0.93	-0.30	1.97	5.94	-13.09	-342.96	-6.95
1397	4	0.09	0.79	4.87	0.75	-0.29	0.94	0.31	-11.47	-341.39	-2.54
1398	1	0.09	0.21	-3.26	2.21	-0.44	6.95	-12.45	-4.94	-373.67	6.97
1398	2	0.33	0.21	-0.90	2.43	-0.46	4.16	-4.72	13.54	-385.34	0.94
1398	3	0.33	0.79	-3.33	-0.83	-0.52	2.43	2.16	-14.30	-386.15	-1.42
1398	4	0.09	0.79	-4.36	-1.12	-0.52	3.93	-7.97	-13.85	-360.90	0.28
1399	1	0.09	0.21	0.44	-2.12	-2.17	1.00	4.50	32.17	-419.25	9.27
1399	2	0.32	0.21	0.24	-2.05	-1.00	-6.78	16.78	-3.55	-379.44	19.90
1399	3	0.32	0.79	2.67	0.49	-0.93	5.60	12.11	-22.82	-361.09	7.08
1399	4	0.09	0.79	1.71	0.25	-1.93	4.75	1.06	-21.38	-354.14	4.37
1400	1	0.13	0.21	0.79	-1.73	-2.89	0.54	-0.37	-125.74	-436.69	129.50
1400	2	0.47	0.21	0.33	-1.75	-2.52	-1.90	6.63	62.72	-451.34	32.21
1400	3	0.47	0.79	0.96	-0.54	-2.32	4.05	6.07	1.00	-294.85	12.29
1400	4	0.13	0.79	-0.12	-0.98	-2.78	4.00	0.05	-15.42	-418.63	47.67
1401	1	0.18	0.21	-23.59	-1.49	0.92	5.68	0.69	-33.09	-448.71	-22.60
1401	2	0.67	0.21	-21.07	-0.66	-0.54	4.37	-3.80	-67.77	-489.19	-43.13
1401	3	0.67	0.79	-24.31	-0.58	0.39	2.19	-5.48	-45.51	-496.71	-9.89
1401	4	0.18	0.79	-24.96	-1.52	1.28	2.89	0.45	-23.66	-436.01	13.72
1402	1	0.21	0.21	-27.93	-4.45	0.72	5.09	2.20	12.70	-262.52	-22.33
1402	2	0.78	0.21	-25.33	-3.77	1.08	4.59	-1.99	-13.19	-304.49	-21.46
1402	3	0.78	0.79	-25.90	-3.91	1.30	3.56	-1.20	3.44	-309.16	3.03
1402	4	0.21	0.79	-27.97	-4.59	0.78	4.23	2.98	7.48	-272.76	-3.92
1403	1	0.21	0.34	0.67	7.96	-0.54	-0.78	15.47	-259.57	16.03	-21.82
1403	2	0.79	0.34	0.72	7.90	-0.62	-1.01	15.08	-254.36	14.69	-25.22
1403	3	0.79	1.28	3.85	23.06	-0.44	1.87	17.14	-224.03	14.18	-20.33
1403	4	0.21	1.28	3.52	23.03	-0.46	1.41	16.82	-219.26	14.49	-25.71
1404	1	0.21	0.29	-3.07	-12.80	-0.18	-0.33	13.16	-261.41	-1.98	-6.83
1404	2	0.79	0.29	-3.08	-12.99	-0.32	-1.21	12.61	-256.08	0.49	-13.09
1404	3	0.79	1.09	-1.09	-1.79	-0.42	0.95	15.30	-257.69	8.17	-22.12
1404	4	0.21	1.09	-1.05	-1.64	-0.29	0.23	14.15	-263.79	8.02	-14.22
1405	1	0.21	0.32	-4.88	-23.98	0.08	-0.19	5.03	-249.61	-12.52	1.25

1405	2	0.79	0.32	-4.96	-24.08	-0.05	-0.59	5.07	-247.20	-11.65	-1.51
1405	3	0.79	1.19	-4.07	-18.90	-0.15	-0.01	6.52	-252.49	-5.72	-7.78
1405	4	0.21	1.19	-4.07	-18.83	-0.01	0.34	6.44	-256.89	-10.00	-1.86
1406	1	0.21	0.28	-4.60	-23.28	0.07	-0.28	-3.05	-242.41	-22.99	3.67
1406	2	0.79	0.28	-4.70	-23.33	0.06	-0.15	-3.12	-241.88	-15.75	3.22
1406	3	0.79	1.06	-5.13	-25.19	0.03	-0.63	-1.81	-244.37	-14.18	1.01
1406	4	0.21	1.06	-5.03	-25.14	0.09	0.22	-1.80	-245.77	-20.99	3.24
1407	1	0.30	0.25	0.75	0.28	-2.09	-0.15	-0.14	-4.35	-322.72	-0.14
1407	2	1.10	0.37	-0.15	-0.04	-1.54	-1.96	2.68	-3.86	-336.36	-4.89
1407	3	1.10	0.95	-0.11	0.13	-1.93	-5.14	1.39	-2.21	-310.68	8.14
1407	4	0.30	0.83	0.64	0.13	-1.71	3.09	-4.47	1.33	-325.51	-2.32
1408	1	0.23	0.21	3.09	0.49	-1.26	-3.46	-3.04	-7.17	-308.19	-7.19
1408	2	0.86	0.21	1.52	0.13	-1.65	-2.77	-1.22	-5.71	-310.99	-3.05
1408	3	0.86	0.79	1.16	-0.12	-1.62	-3.93	3.35	1.11	-321.70	-3.75
1408	4	0.23	0.79	2.67	0.48	-1.42	-3.58	-2.66	-2.93	-310.25	-8.68
1409	1	0.09	0.21	-4.30	-0.88	-0.70	-2.84	-3.13	-8.00	-313.19	9.16
1409	2	0.33	0.21	-5.03	-1.10	-0.48	-4.04	4.37	-7.84	-310.29	7.80
1409	3	0.33	0.79	-4.58	-1.00	-0.58	-3.32	6.12	-3.46	-308.06	9.59
1409	4	0.09	0.79	-3.80	-0.84	-0.96	-2.48	-2.24	-1.16	-311.13	7.87
1410	1	0.09	0.21	5.34	1.50	-0.53	-1.60	-4.28	-9.99	-338.70	-4.77
1410	2	0.35	0.21	5.23	1.35	-0.49	0.71	4.92	-7.79	-338.94	-7.43
1410	3	0.35	0.79	4.98	1.56	-0.56	-1.55	5.03	-4.35	-335.46	-7.56
1410	4	0.09	0.79	5.39	1.49	-0.60	-1.91	-4.68	-6.37	-332.41	-5.22
1411	1	0.09	0.21	-4.92	-1.52	-0.66	4.73	-5.53	-4.47	-355.00	3.45
1411	2	0.33	0.21	-4.43	-1.49	-0.59	2.13	5.19	-10.56	-356.68	-1.33
1411	3	0.33	0.79	-4.93	-1.57	-0.56	1.75	5.20	-8.53	-348.44	0.71
1411	4	0.09	0.79	-5.39	-1.80	-0.60	1.99	-5.77	-6.63	-348.27	3.29
1412	1	0.09	0.21	2.25	0.46	-1.60	4.98	-0.37	-9.12	-366.97	12.04
1412	2	0.32	0.21	3.66	0.93	-0.78	6.65	8.91	4.87	-357.53	-2.99
1412	3	0.32	0.79	4.28	1.42	-0.68	5.90	8.29	-9.00	-350.59	0.61
1412	4	0.09	0.79	2.94	1.22	-1.37	5.84	-0.78	-11.20	-353.25	7.39
1413	1	0.13	0.21	-0.43	-0.41	-2.42	5.24	0.44	5.36	-348.55	28.35
1413	2	0.47	0.21	1.39	0.30	-1.90	6.09	4.74	-34.12	-366.75	26.75
1413	3	0.47	0.79	1.63	0.65	-1.64	6.55	4.36	-13.13	-344.76	7.95
1413	4	0.13	0.79	-0.56	0.20	-2.16	6.72	0.70	-24.62	-331.19	14.37
1414	1	0.18	0.21	-25.66	-1.77	1.56	2.18	1.62	-21.52	-424.43	29.78
1414	2	0.67	0.21	-25.86	-0.78	1.52	1.46	-2.48	-44.07	-425.21	12.74
1414	3	0.67	0.79	-26.76	-1.37	3.02	0.57	-4.30	-58.45	-396.74	51.17
1414	4	0.18	0.79	-26.13	-2.42	2.31	1.52	2.11	-28.11	-420.04	48.77
1415	1	0.21	0.21	-27.85	-4.49	0.93	2.86	3.59	18.97	-291.39	3.75
1415	2	0.78	0.21	-26.41	-4.04	1.51	2.25	-2.12	8.22	-323.85	26.87
1415	3	0.78	0.79	-27.14	-4.44	1.79	3.11	-1.03	-42.20	-342.52	64.66
1415	4	0.21	0.79	-27.45	-4.67	0.93	1.15	2.86	38.01	-318.01	5.19
1416	1	0.21	0.34	0.99	7.99	-0.72	0.18	15.38	-256.41	12.74	-29.17
1416	2	0.79	0.34	1.23	8.21	-0.75	0.69	20.42	-257.25	6.63	-36.80
1416	3	0.79	1.28	4.56	23.10	-0.55	6.45	14.53	-253.32	4.68	-9.78
1416	4	0.21	1.28	3.41	22.94	-0.59	-0.25	15.39	-229.54	13.29	-15.78
1417	1	0.21	0.29	-3.06	-13.06	-0.41	0.25	13.12	-252.05	-0.21	-16.93
1417	2	0.79	0.29	-2.86	-13.07	-0.54	-0.13	13.44	-245.86	-1.66	-20.60
1417	3	0.79	1.09	-1.00	-2.24	-0.54	-2.63	10.93	-246.49	1.53	-26.45
1417	4	0.21	1.09	-0.87	-1.91	-0.49	0.90	15.07	-252.70	5.64	-25.99
1418	1	0.21	0.32	-4.99	-24.15	-0.09	0.02	4.96	-244.60	-8.47	-3.44
1418	2	0.79	0.32	-4.99	-24.21	-0.15	-0.98	4.92	-240.38	-4.91	-5.21
1418	3	0.79	1.19	-3.96	-19.25	-0.27	0.85	7.05	-242.78	-3.39	-13.11
1418	4	0.21	1.19	-4.13	-19.04	-0.23	-0.22	6.42	-248.19	-4.08	-10.70
1419	1	0.21	0.28	-4.75	-23.38	0.05	-0.23	-3.02	-240.80	-11.27	2.80
1419	2	0.79	0.28	-4.79	-23.45	0.04	-0.13	-2.13	-239.02	-5.79	2.33
1419	3	0.79	1.06	-5.19	-25.35	-0.01	-0.32	-1.79	-239.47	-5.37	-0.56
1419	4	0.21	1.06	-5.13	-25.24	0.00	0.48	-1.78	-242.70	-10.16	-0.19
1420	1	0.17	0.12	22.29	-0.37	0.27	-6.14	0.47	-108.27	-20.80	-51.64
1420	2	0.62	0.12	17.63	0.72	0.10	-7.41	-0.86	-100.71	-57.94	-34.6
1420	3	0.53	0.45	18.56	0.66	1.38	-7.58	-0.77	-118.62	-52.89	-42.61
1420	4	0.14	0.44	22.68	-0.17	1.30	-6.48	2.88	-121.04	-45.23	-33.89
1421	1	0.12	0.12	13.95	1.37	-0.16	-7.54	0.13	-92.69	-93.45	-26.41
1421	2	0.58	0.13	9.55	1.96	-0.53	-6.92	-1.07	-67.41	-144.20	-23.05
1421	3	0.37	0.50	10.97	1.94	0.75	-5.85	-2.25	-95.46	-121.69	-42.16
1421	4	-0.02	0.47	15.06	1.29	1.21	-7.96	0.45	-114.31	-77.82	-45.23
1422	1	0.08	0.14	6.98	2.00	-0.82	-6.15	0.24	-48.27	-180.14	-22.31
1422	2	0.53	0.16	4.23	1.81	-1.05	-4.80	-1.43	-26.29	-226.14	-20.91
1422	3	0.19	0.59	5.57	2.21	-0.49	-3.78	-0.12	-65.20	-199.51	-50.16
1422	4	-0.18	0.53	8.29	2.13	0.20	-6.35	-1.28	-85.16	-150.85	-42.73
1423	1	0.13	0.12	23.13	0.30	1.37	-6.45	5.21	-135.59	-25.71	-31.19
1423	2	0.47	0.12	19.27	0.93	1.51	-9.19	1.74	-143.29	-39.56	-41.54
1423	3	0.39	0.45	21.36	0.96	2.68	-11.82	0.40	-162.66	-18.51	-23.80
1423	4	0.12	0.44	25.42	0.53	1.25	-17.89	4.35	-145.69	-7.95	-12.31
1424	1	0.10	0.13	16.20	1.14	0.32	-10.73	1.66	-140.78	-54.18	-44.31
1424	2	0.43	0.14	12.05	1.59	0.31	-10.26	-1.53	-131.18	-97.64	-56.21
1424	3	0.27	0.53	13.83	1.18	2.52	-5.71	-1.35	-178.67	-42.38	-63.60
1424	4	0.00	0.48	18.50	0.80	1.92	-8.87	1.39	-176.92	-21.99	-37.35
1425	1	0.06	0.16	9.33	1.91	-0.43	-9.47	-0.57	-138.87	-155.66	-54.78
1425	2	0.39	0.18	6.21	2.28	-0.53	-8.43	-2.94	-124.10	-170.81	-72.56
1425	3	0.14	0.67	7.41	1.64	1.71	-4.16	-2.98	-186.12	-76.82	-63.13
1425	4	-0.12	0.59	11.17	1.14	1.75	-5.43	-1.16	-198.60	-43.28	-65.53
1426	1	0.16	0.12	-24.96	0.97	0.26	-3.94	0.05	-124.76	-13.31	21.75
1426	2	0.61	0.12	-26.63	1.18	0.29	-1.55	0.13	-96.36	-65.84	30.53
1426	3	0.52	0.45	-26.95	1.33	0.24	-2.50	-2.20	-131.69	-56.51	8.90
1426	4	0.14	0.44	-25.10	0.84	0.92	-5.57	-1.34	-142.60	-31.58	9.91
1427	1	0.12	0.12	-26.60	0.73	0.37	-0.51	0.76	-154.42	-162.33	-58.28
1427	2	0.57	0.13	-25.48	-0.66	0.76	0.37	-0.13	-102.57	-121.64	-5.26
1427	3	0.36	0.50	-26.14	0.37	-1.30	-2.54	2.51	-97.92	-121.90	-41.85
1427	4	-0.01	0.47	-26.90	1.20	-0.46	-3.44	-0.65	-110.94	-81.76	-15.96
1428	1	0.08	0.14	-29.65	-1.52	1.12	0.32	0.03	-85.90	-129.49	9.98
1428	2	0.52	0.16	-23.83	-2.73	1.46	-0.47	2.99	-63.70	-229.37	26.75
1428	3	0.19	0.58	-23.72	-2.77	-0.88	-7.83	-2.21	-56.95	-214.53	-15.06
1428	4	-0.18	0.53	-24.75	-0.71	-1.27	-6.48	1.08	-85.57	-170.72	-35.67
1429	1	0.13	0.12	-25.21	-0.10	3.02	-2.84	-4.69	-132.36	-30.22	20.78
1429	2	0.46	0.12	-27.11	0.89	2.58	1.98	-5.17	-125.23	-34.58	-1.93
1429	3	0.39	0.45	-28.95	-0.07	0.01	-28.36	-7.74	-127.39	-4.77	-7.77
1429	4	0.12	0.44	-27.27	-0.49	1.98	-23.31	-3.87	-126.04	-7.95	11.40
1430	1	0.10	0.13	-27.29	0.98	4.13	7.40	-3.72	-114.12	-47.74	-7.13
1430	2	0.43	0.14	-26.79	1.53	3.32	10.15	-1.56	-122.43	-90.66	-52.29
1430	3	0.27	0.53	-28.26	0.43	-1.27	-32.13	-9.93	-93.65	-34.07	-35.38
1430	4	0.00	0.48	-29.07	0.21	0.73	-32.00	-8.30	-100.45	-15.43	-12.34
1431	1	0.06	0.16	-25.37	0.81	4.46	15.53	1.25	-109.88	-104.33	-58.54
1431	2	0.39	0.18	-23.62	0.38	3.51	13.64	8.56	-88.40	-177.16	-76.27
1431	3	0.14	0.66	-24.74	0.75	-2.10	-26.28	-11.84	-116.97	-85.95	-85.78
1431	4	-0.11	0.59	-27.21	0.97	-0.35	-31.89	-9.96	-106.53	-42.93	-55.85
1432	1	0.36	0.12	-3.53	-23.97	-0.85	1.46	3.00	-260.29	-42.90	-29.32
1432	2	0.90	0.10	-3.53	-22.17	-0.10	3.68	0.40	-253.18	-21.48	-8.99
1432	3	1.21	0.37	-3.08	-20.57	1.51	0.82	3.06	-296.91	-22.04	25.67
1432	4	0.76	0.46	-2.36	-21.70	0.20	0.39	3.05	-253.34	-45.93	17.59
1433	1	0.30	0.09	-3.52	-20.49	0.38	4.18	7.25	-328.57	-14.17	1.71
1433	2	0.85	0.07	-4.67	-16.68	0.29	7.46	3.40	-381.31	-30.49	15.77
1433	3	1.01	0.27	-5.43	-13.77	2.28	5.95	7.56	-409.48	-42.16	49.89
1433	4	0.54	0.32	-3.18	-18.47	1.69	5.18	2.63	-346.81	-29.77	34.41
1434	1	0.25	0.07	-6.79	-13.36	-0.59	4.03	10.43	-420.15	-49.93	27.29

1434	2	0.80	0.06	-6.82	-8.67	-4.29	4.52	6.50	-467.30	-69.22	45.99
1434	3	0.83	0.22	-7.50	-5.50	-3.42	5.18	9.11	-514.76	-69.93	54.21
1434	4	0.35	0.24	-7.36	-9.04	0.68	7.27	12.31	-466.94	-63.39	54.61
1435	1	0.27	0.16	-3.96	-21.06	8.51	11.10	-2.43	-248.96	-27.88	-8.66
1435	2	0.66	0.13	-5.02	-16.70	8.80	12.68	2.96	-314.33	-23.31	-16.25
1435	3	0.89	0.47	-8.59	-9.14	8.60	-24.21	12.94	-332.10	-31.16	75.87
1435	4	0.57	0.59	-6.31	-14.66	10.48	-19.55	17.31	-218.72	-39.26	68.13
1436	1	0.24	0.10	-5.55	-14.54	7.35	11.74	10.30	-365.34	-27.14	16.97
1436	2	0.65	0.08	-7.94	-8.39	4.52	2.29	10.32	-453.42	-46.24	19.00
1436	3	0.78	0.30	-9.51	-1.78	3.45	-8.51	6.95	-570.17	-40.24	86.94
1436	4	0.44	0.37	-8.14	-6.29	6.81	-20.64	11.61	-407.97	-49.93	113.73
1437	1	0.20	0.07	-8.21	-5.44	1.04	7.51	12.68	-523.18	-58.02	59.70
1437	2	0.62	0.06	-7.85	-3.46	-3.56	8.01	7.50	-568.49	-52.19	26.84
1437	3	0.64	0.23	-7.97	-0.56	-2.41	31.36	3.53	-671.44	-21.61	12.61
1437	4	0.29	0.25	-8.99	-1.96	1.69	6.87	6.17	-626.29	-35.44	105.62
1438	1	0.20	0.06	-5.58	-16.01	-9.89	4.32	11.16	-450.85	-56.29	48.22
1438	2	0.75	0.07	-4.53	-22.70	-14.54	-9.96	11.44	-413.57	-50.43	30.65
1438	3	0.65	0.24	-4.18	-17.90	-15.53	-1.78	14.51	-421.41	-37.79	5.87
1438	4	0.17	0.22	-6.53	-11.25	-10.03	5.66	9.95	-491.29	-50.47	32.54
1439	1	0.15	0.07	-1.44	-23.02	-11.76	-4.06	1.33	-338.87	-69.57	6.79
1439	2	0.70	0.09	-1.53	-27.93	-9.81	-3.30	1.32	-284.69	-93.19	-56.52
1439	3	0.46	0.32	0.67	-28.06	-11.21	-1.45	-2.20	-291.34	-62.91	-53.38
1439	4	-0.01	0.27	-2.27	-23.41	-15.30	-1.53	5.21	-350.84	-49.34	-10.35
1440	1	0.10	0.10	-1.48	-27.85	-7.25	-1.71	0.13	-337.67	-80.28	-81.67
1440	2	0.64	0.12	-1.22	-28.80	-4.89	0.44	-0.06	-328.37	-103.42	-54.63
1440	3	0.24	0.46	0.52	-28.76	-5.95	4.34	1.61	-261.38	-102.71	-55.78
1440	4	-0.21	0.37	-0.19	-29.85	-9.19	2.95	-0.18	-267.79	-73.83	-61.93
1441	1	0.16	0.06	-8.66	-5.47	-9.16	10.98	11.62	-531.68	-49.76	42.29
1441	2	0.58	0.07	-7.45	-12.24	-16.04	6.36	18.37	-435.49	-32.60	2.41
1441	3	0.49	0.25	-10.45	-5.29	-8.94	65.75	18.31	-474.18	-19.10	-61.52
1441	4	0.14	0.23	-8.30	-0.49	-3.05	43.55	5.21	-623.57	-19.18	13.49
1442	1	0.12	0.08	-9.23	-14.18	-19.90	3.01	9.13	-356.51	-38.65	15.10
1442	2	0.53	0.10	-4.92	-22.92	-20.34	-9.80	7.21	-286.37	-30.36	-16.70
1442	3	0.33	0.37	-11.22	-12.22	-15.09	69.58	24.08	-246.34	-31.00	-60.67
1442	4	-0.01	0.30	-13.30	-5.14	-11.75	74.97	19.82	-384.34	-20.07	-40.08
1443	1	0.07	0.13	-5.61	-23.83	-20.72	-16.17	-1.01	-259.88	-40.57	-15.03
1443	2	0.46	0.16	-3.99	-28.70	-17.82	-11.93	-8.63	-234.13	-59.11	-26.46
1443	3	0.16	0.59	-8.37	-22.28	-17.98	44.46	26.96	-130.44	-33.62	-45.67
1443	4	-0.16	0.47	-12.34	-15.21	-16.83	62.24	23.16	-195.80	-14.77	-44.13
1444	1	0.29	0.16	-26.84	0.09	3.63	-0.93	-0.01	-102.36	-316.90	42.15
1444	2	0.74	0.14	-31.15	1.63	3.04	-2.38	-2.52	-131.98	-238.77	11.54
1444	3	1.00	0.53	-33.45	2.78	4.92	4.03	-2.44	-136.69	-157.19	27.29
1444	4	0.63	0.58	-31.67	-0.12	6.22	4.93	-4.98	-114.86	-228.65	45.68
1445	1	0.25	0.13	-32.85	2.50	2.47	-0.89	-3.38	-163.45	-180.79	-8.24
1445	2	0.69	0.12	-34.54	3.63	1.57	-1.01	-1.89	-195.80	-31.68	-39.33
1445	3	0.83	0.47	-36.03	3.81	1.44	1.71	-4.60	-181.74	-34.21	-10.21
1445	4	0.45	0.50	-35.53	3.70	3.79	0.37	-0.50	-160.64	-110.27	4.20
1446	1	0.20	0.12	-34.36	3.57	0.63	1.81	-2.51	-151.65	-43.30	15.85
1446	2	0.65	0.12	-31.86	2.56	0.05	4.71	-2.06	-193.17	-47.56	-43.38
1446	3	0.68	0.44	-32.49	1.96	-1.15	6.89	-4.54	-194.96	-42.07	-28.03
1446	4	0.29	0.45	-35.43	3.17	0.00	2.76	-5.76	-190.58	-24.15	-9.61
1447	1	0.22	0.18	-35.03	5.98	-2.81	-16.46	5.26	-136.41	-147.81	62.41
1447	2	0.54	0.16	-36.67	4.72	-5.32	-17.81	-4.07	-149.69	-96.40	26.01
1447	3	0.72	0.59	-39.23	2.34	0.91	49.41	-18.78	-107.24	-20.43	21.16
1447	4	0.46	0.66	-37.57	3.09	3.64	43.28	-25.90	-92.12	-53.67	47.31
1448	1	0.19	0.14	-37.21	4.43	-3.97	-10.38	-8.59	-156.51	-49.63	-3.24
1448	2	0.52	0.13	-36.73	2.42	-5.39	-3.65	-8.87	-178.52	-28.90	-12.73
1448	3	0.62	0.48	-39.54	0.16	-0.50	44.64	-13.02	-158.15	-9.34	3.23
1448	4	0.35	0.53	-39.63	0.86	2.32	48.17	-16.45	-124.46	-13.49	20.93
1449	1	0.16	0.12	-35.88	1.82	-3.15	1.12	-9.96	-192.37	-16.64	-19.53
1449	2	0.50	0.12	-32.75	0.20	-3.82	7.08	-8.14	-188.33	-28.02	-24.26
1449	3	0.51	0.44	-35.99	-0.69	-2.35	30.30	-5.60	-218.21	-11.39	-10.42
1449	4	0.23	0.45	-38.74	-0.07	0.36	38.77	-11.46	-182.88	-10.33	9.38
1450	1	0.17	0.12	-28.21	1.56	-0.34	8.27	-2.24	-188.00	-44.53	-28.61
1450	2	0.62	0.12	-22.06	0.25	-0.76	9.80	-0.60	-171.94	-89.84	-27.01
1450	3	0.53	0.45	-23.78	0.10	-2.01	10.51	-1.33	-188.92	-76.12	-41.37
1450	4	0.14	0.44	-29.10	0.96	-1.71	8.86	-5.24	-196.87	-37.24	-31.54
1451	1	0.12	0.12	-17.29	-0.30	-0.99	10.83	-1.04	-148.15	-130.58	-22.76
1451	2	0.58	0.13	-11.46	-0.69	-1.39	9.25	0.16	-110.72	-203.33	-16.91
1451	3	0.37	0.50	-14.31	-0.46	-2.29	9.58	1.59	-140.71	-172.33	-53.34
1451	4	-0.02	0.47	-19.43	-0.24	-2.14	11.57	-1.90	-172.14	-112.54	-49.62
1452	1	0.08	0.14	-7.85	-0.52	-1.65	9.43	-0.33	-82.05	-249.48	-8.06
1452	2	0.53	0.16	-3.83	0.02	-1.92	7.57	1.70	-48.41	-302.24	-3.73
1452	3	0.19	0.59	-6.92	-0.26	-2.30	7.29	-0.15	-79.87	-277.11	-40.54
1452	4	-0.18	0.53	-10.61	-0.28	-2.25	9.44	0.57	-114.89	-223.88	-50.08
1453	1	0.13	0.12	-29.87	-0.11	-1.64	9.61	-8.22	-211.22	-37.70	-27.14
1453	2	0.47	0.12	-24.90	-0.65	-1.86	12.73	-4.33	-208.37	-53.60	-39.98
1453	3	0.39	0.45	-28.01	-1.12	-3.32	13.89	-1.71	-239.96	-23.56	-40.90
1453	4	0.12	0.44	-33.34	-0.73	-1.39	22.95	-5.72	-229.58	-12.00	-8.91
1454	1	0.10	0.13	-21.16	-0.56	-0.25	13.40	-4.20	-210.42	-74.00	-48.14
1454	2	0.43	0.14	-16.24	-0.18	-0.42	14.51	-1.34	-190.06	-125.89	-75.01
1454	3	0.27	0.53	-18.85	-0.96	-3.10	3.56	-0.48	-242.45	-59.05	-83.68
1454	4	0.00	0.48	-24.43	-0.93	-2.35	9.23	-2.91	-245.79	-26.04	-45.18
1455	1	0.06	0.16	-13.34	0.25	0.47	14.17	-1.13	-181.89	-158.65	-91.29
1455	2	0.39	0.18	-9.55	1.14	-0.02	13.19	2.52	-153.67	-221.71	-106.03
1455	3	0.14	0.67	-11.60	0.09	-1.83	0.61	-2.19	-249.67	-131.37	-144.58
1455	4	-0.12	0.59	-15.75	-0.32	-1.88	2.10	-1.74	-255.52	-74.26	-98.96
1456	1	0.36	0.13	0.39	-2.60	2.11	1.26	-8.41	-317.51	-42.75	10.56
1456	2	0.90	0.10	1.24	-2.15	2.11	2.23	-7.33	-339.64	-51.54	38.07
1456	3	1.21	0.38	1.33	-4.33	2.19	1.41	-7.36	-342.16	-74.29	75.62
1456	4	0.77	0.47	0.57	-4.85	1.98	0.66	-7.21	-309.71	-73.22	51.84
1457	1	0.30	0.09	2.06	-1.99	2.23	2.23	-6.74	-367.85	-56.29	62.76
1457	2	0.85	0.08	3.07	-1.57	2.42	1.74	-6.30	-403.23	-71.88	104.54
1457	3	1.01	0.28	3.09	-2.56	2.65	0.99	-3.62	-412.92	-102.10	179.16
1457	4	0.54	0.33	2.49	-3.53	2.18	1.98	-7.11	-374.79	-83.13	99.77
1458	1	0.25	0.07	3.26	-1.53	2.79	0.25	-2.14	-401.37	-91.51	140.57
1458	2	0.80	0.06	1.91	-0.65	2.73	-2.73	-1.25	-422.90	-126.66	181.59
1458	3	0.83	0.24	1.89	-0.77	2.89	-4.54	-2.63	-390.89	-84.78	116.98
1458	4	0.35	0.25	3.17	-1.90	2.99	-0.68	-0.58	-422.64	-105.67	151.30
1459	1	0.27	0.16	-0.98	-6.14	4.42	7.47	-9.64	-322.57	-68.65	27.97
1459	2	0.66	0.13	0.16	-3.98	4.41	8.34	-6.08	-382.87	-63.97	40.47
1459	3	0.89	0.48	-1.03	-2.94	3.25	-7.83	1.51	-450.51	-70.10	134.32
1459	4	0.57	0.60	-2.40	-5.54	4.63	-2.81	-0.24	-334.81	-95.36	135.42
1460	1	0.24	0.10	1.47	-3.54	3.97	5.59	-3.65	-419.62	-78.71	87.46
1460	2	0.65	0.08	1.96	-1.62	3.73	0.92	-1.77	-468.74	-65.22	97.44
1460	3	0.78	0.31	1.41	-0.70	1.83	-16.11	3.18	-572.81	-53.91	129.89
1460	4	0.44	0.38	0.46	-2.17	2.34	-11.58	2.14	-495.23	-83.02	166.02
1461	1	0.20	0.07	2.63	-1.59	3.27	-2.29	0.98	-476.42	-102.03	138.27
1461	2	0.62	0.06	1.69	-0.95	2.95	-6.49	-0.78	-405.79	-32.64	80.48
1461	3	0.63	0.24	1.91	0.12	1.18	-19.97	-0.67	-468.27	-10.98	25.75
1461	4	0.29	0.26	2.12	-0.85	1.39	-17.23	3.38	-541.65	-50.26	111.54
1462	1	0.20	0.06	-0.47	0.01	2.11	-3.86	0.09	-264.89	-56.97	100.26
1462	2	0.75	0.07	-2.32	-0.13	2.04	-2.10	1.02	-183.02	-138.79	67.22
1462	3	0.65	0.25	-2.09	0.48	1.94	-4.08	1.57	-172.55	-188.93	69.07
1462	4	0.17	0.24	0.00	0.34	2.29	-4.97	1.57	-324.34	-35.73	76.55
1463	1	0.15	0.08	-2.46	-0.70	1.99	-0.67	1.47	-296.94	-271.93	-107.19

1463	2	0.70	0.09	-1.97	-1.93	1.68	-0.72	-1.74	-267.27	-31.80	-87.40
1463	3	0.46	0.33	-2.45	-1.70	1.21	-2.78	-1.71	-236.53	-97.20	-118.39
1463	4	-0.01	0.28	-2.57	-0.26	1.66	-2.99	-0.08	-330.95	-132.78	-8.27
1464	1	0.10	0.10	-1.77	-2.68	1.39	-0.55	-4.89	-266.29	-44.48	-51.96
1464	2	0.64	0.13	-1.66	-3.39	1.14	0.01	-4.78	-245.24	-22.94	-27.76
1464	3	0.23	0.47	-2.02	-4.20	0.83	-2.01	-4.66	-215.63	-59.60	-58.92
1464	4	-0.21	0.38	-2.23	-2.90	0.94	-2.42	-2.84	-241.67	-86.59	-91.94
1465	1	0.16	0.06	0.57	0.02	2.33	-6.64	0.16	-348.52	-59.41	77.60
1465	2	0.58	0.07	-1.57	0.47	2.22	-4.62	0.19	-168.58	-70.67	-63.51
1465	3	0.49	0.26	-1.01	0.23	1.03	-17.50	-2.47	-290.62	-8.02	-50.23
1465	4	0.14	0.24	0.93	0.05	1.28	-20.82	0.37	-350.33	-16.39	27.04
1466	1	0.12	0.08	-2.16	-0.03	1.94	-2.31	1.18	-308.19	-26.69	-40.90
1466	2	0.53	0.10	-2.47	-1.18	1.02	-2.37	0.51	-264.39	-120.75	-91.57
1466	3	0.32	0.38	-2.55	-0.22	0.06	-9.46	-2.56	-229.31	-61.74	-75.24
1466	4	-0.01	0.31	-1.66	0.46	0.89	-14.66	-1.81	-266.69	-30.10	-44.95
1467	1	0.07	0.13	-2.38	-2.61	0.30	-2.73	-1.82	-255.56	-31.33	-58.15
1467	2	0.46	0.16	-2.52	-4.64	-0.61	-3.66	-3.71	-222.51	-63.44	-51.18
1467	3	0.16	0.60	-3.57	-3.13	-2.17	-5.97	-2.05	-195.17	-71.23	-97.95
1467	4	-0.16	0.48	-2.93	-0.98	-0.57	-7.48	-1.50	-221.00	-56.16	-104.82
1468	1	0.13	0.21	-0.54	0.64	-2.15	7.22	0.62	-35.11	-333.24	1.27
1468	2	0.47	0.21	1.87	1.21	-1.59	6.81	4.55	-11.58	-344.23	-0.66
1468	3	0.47	0.79	2.01	1.71	-1.64	6.92	4.82	-25.45	-346.77	-10.53
1468	4	0.13	0.79	-0.47	1.36	-2.18	7.69	1.28	-32.08	-345.93	-27.75
1469	1	0.09	0.21	3.21	1.29	-1.36	6.00	-0.78	-10.72	-345.65	-1.19
1469	2	0.32	0.21	4.55	1.66	-0.70	5.49	8.18	-10.84	-344.84	-0.37
1469	3	0.32	0.79	4.79	2.34	-0.73	5.39	9.38	-13.92	-343.27	-7.28
1469	4	0.09	0.79	3.53	2.15	-1.45	5.66	-0.93	-19.05	-344.92	-17.21
1470	1	0.09	0.21	-5.48	-1.98	-0.68	0.47	-6.50	-9.42	-343.35	6.80
1470	2	0.33	0.21	-5.16	-2.06	-0.64	1.30	5.20	-10.16	-342.29	3.83
1470	3	0.33	0.79	-5.28	-2.29	-0.79	0.73	6.39	-9.15	-339.36	11.07
1470	4	0.09	0.79	-5.51	-2.61	-0.76	0.18	-7.65	-6.63	-338.36	11.20
1471	1	0.09	0.21	5.33	1.66	-0.70	-2.47	-5.23	-4.66	-328.00	-9.22
1471	2	0.35	0.21	4.68	1.39	-0.65	-3.06	6.20	-3.30	-334.24	-10.34
1471	3	0.35	0.79	4.48	2.08	-0.79	-3.56	8.29	-4.51	-328.22	-15.87
1471	4	0.09	0.79	5.17	2.01	-0.79	-2.74	-5.36	-5.59	-323.00	-12.04
1472	1	0.09	0.21	-3.30	-0.87	-1.04	-3.93	-2.78	2.16	-313.08	10.39
1472	2	0.33	0.21	-4.09	-1.01	-0.60	-3.63	5.89	0.11	-307.12	10.59
1472	3	0.33	0.79	-3.74	-1.12	-0.70	-3.69	6.38	3.55	-303.72	16.05
1472	4	0.09	0.79	-2.93	-0.88	-1.10	-3.90	-4.00	2.06	-319.57	21.27
1473	1	0.23	0.21	2.62	0.57	-1.51	-2.17	-2.63	3.91	-311.28	-9.50
1473	2	0.86	0.21	1.24	0.27	-1.69	-0.28	3.06	5.78	-327.22	-2.15
1473	3	0.86	0.79	0.97	0.12	-1.94	-1.51	-0.90	10.45	-329.34	-11.10
1473	4	0.23	0.79	2.30	0.60	-1.62	-2.32	-2.16	15.70	-316.73	-11.06
1474	1	0.30	0.17	0.30	-0.49	-1.81	-5.71	-4.31	1.65	-327.01	2.41
1474	2	1.10	0.05	-0.45	-0.88	-1.98	3.59	1.87	-1.29	-302.17	-9.06
1474	3	1.10	0.63	-0.04	-0.85	-1.61	1.68	2.91	4.53	-332.67	6.87
1474	4	0.30	0.75	0.06	-0.70	-2.33	-2.25	-0.27	6.89	-331.76	9.92
1475	1	0.18	0.21	-26.24	-3.52	3.09	2.15	3.93	-88.60	-442.17	94.43
1475	2	0.67	0.21	-26.97	-2.11	4.48	0.82	-2.17	-93.87	-369.46	69.56
1475	3	0.67	0.79	-26.89	-2.85	6.79	0.01	-2.26	-137.86	-368.72	29.44
1475	4	0.18	0.79	-26.33	-5.29	4.98	5.17	8.35	-173.24	-374.45	58.14
1476	1	0.21	0.21	-28.20	-5.17	0.87	0.75	0.51	0.20	-363.93	41.42
1476	2	0.78	0.21	-26.98	-5.05	1.69	2.62	-2.49	-47.73	-367.19	85.37
1476	3	0.78	0.79	-25.84	-6.13	2.57	6.49	-2.24	-176.59	-324.82	84.94
1476	4	0.21	0.79	-31.05	-8.20	1.15	8.18	-2.45	-283.19	-470.61	180.54
1477	1	0.21	0.34	1.30	7.71	-1.35	-4.05	13.38	-244.13	-5.21	-36.48
1477	2	0.79	0.34	2.26	6.28	-1.65	-3.90	9.73	-245.71	-12.45	-28.67
1477	3	0.79	1.28	6.84	24.38	-1.69	35.51	25.72	-322.90	5.22	-17.09
1477	4	0.21	1.28	1.66	22.74	-1.40	-9.11	12.52	-274.18	-3.80	-16.63
1478	1	0.21	0.29	-2.47	-13.08	-0.57	-0.60	14.88	-240.63	-1.12	-21.
1478	2	0.79	0.29	-2.37	-13.43	-0.39	-1.99	13.44	-234.43	-0.93	-21.
1478	3	0.79	1.09	0.32	-1.59	-0.26	-1.38	20.31	-238.72	0.50	-30.71
1478	4	0.21	1.09	0.25	-1.93	-0.36	8.95	15.29	-254.21	-1.71	-25.10
1479	1	0.21	0.32	-4.97	-24.32	-0.17	0.11	5.16	-236.44	-3.31	-5.39
1479	2	0.79	0.32	-4.95	-24.45	-0.16	-0.83	5.26	-230.75	-0.82	-3.93
1479	3	0.79	1.19	-3.75	-19.35	-0.07	0.87	6.21	-232.95	-1.37	-14.54
1479	4	0.21	1.19	-3.95	-19.38	-0.24	0.14	5.97	-236.75	-2.77	-14.20
1480	1	0.21	0.28	-4.81	-23.51	0.03	-0.18	-3.14	-237.68	-1.64	2.89
1480	2	0.79	0.28	-4.82	-23.58	0.01	-0.16	-3.16	-237.33	4.32	4.60
1480	3	0.79	1.06	-5.19	-25.48	0.02	-0.18	-1.73	-272.87	0.66	0.04
1480	4	0.21	1.06	-5.18	-25.41	0.01	0.33	-1.75	-237.57	-2.74	-0.38
1481	1	0.30	0.21	0.26	-0.54	-2.57	1.27	-5.21	23.51	-343.26	9.91
1481	2	1.10	0.21	0.21	-1.16	-1.75	-3.29	5.07	10.18	-320.41	19.43
1481	3	1.10	0.79	0.09	-1.32	-2.31	0.31	5.34	-12.11	-298.20	36.24
1481	4	0.30	0.79	0.09	-0.90	-2.85	-0.53	-5.04	29.70	-364.31	-2.18
1482	1	0.23	0.21	1.91	0.44	-1.89	-3.01	-3.70	11.12	-326.95	-23.38
1482	2	0.86	0.21	0.62	-0.19	-2.96	-4.07	4.45	18.86	-340.27	-8.48
1482	3	0.86	0.79	0.42	-0.54	-2.30	-2.07	3.26	34.46	-365.64	9.00
1482	4	0.23	0.79	1.69	0.44	-2.46	-3.15	-4.18	-10.95	-329.87	-47.80
1483	1	0.09	0.21	-2.80	-1.15	-1.34	-3.09	-3.21	0.06	-303.57	25.31
1483	2	0.33	0.21	-3.62	-1.29	-0.79	-4.05	7.78	-1.69	-297.40	20.10
1483	3	0.33	0.79	-3.33	-1.45	-1.04	-6.13	9.36	0.19	-298.08	21.22
1483	4	0.09	0.79	-2.38	-1.08	-1.83	-3.57	-4.54	9.82	-290.47	11.71
1484	1	0.09	0.21	5.16	2.45	-0.97	-4.35	-7.06	-4.38	-318.71	-15.12
1484	2	0.35	0.21	4.23	2.14	-0.92	-4.01	8.04	-1.53	-320.61	-15.88
1484	3	0.35	0.79	3.95	3.22	-1.19	-2.65	13.51	-1.44	-323.91	-25.24
1484	4	0.09	0.79	5.15	3.24	-1.38	-5.75	-7.77	-6.40	-314.86	-22.10
1485	1	0.09	0.21	-5.44	-3.07	-0.97	-0.67	-9.73	-8.73	-339.12	14.96
1485	2	0.33	0.21	-5.44	-3.26	-0.91	-0.79	5.71	-12.04	-346.31	14.11
1485	3	0.33	0.79	-5.36	-4.01	-1.16	0.58	10.03	-9.25	-351.35	26.78
1485	4	0.09	0.79	-5.29	-4.39	-1.15	1.77	-12.73	-6.60	-334.79	15.51
1486	1	0.09	0.21	3.51	2.50	-1.65	5.48	-0.87	-17.17	-354.49	-24.49
1486	2	0.32	0.21	4.90	2.86	-0.88	5.25	10.75	-10.62	-343.26	-16.96
1486	3	0.32	0.79	4.86	3.97	-1.08	5.51	12.97	-24.46	-361.06	-46.10
1486	4	0.09	0.79	3.16	3.71	-1.90	5.91	-1.66	-27.69	-387.96	-17.67
1487	1	0.13	0.21	-0.41	2.09	-2.34	6.92	1.35	-43.77	-357.62	-44.46
1487	2	0.47	0.21	2.12	2.58	-1.79	6.82	5.36	-29.95	-358.37	-31.35
1487	3	0.47	0.79	1.91	3.30	-1.99	7.09	5.02	-18.17	-392.23	-73.49
1487	4	0.13	0.79	-0.53	3.08	-2.49	5.70	0.80	-69.79	-396.20	-66.36
1488	1	0.18	0.21	-24.56	-5.82	6.10	1.75	9.14	-175.99	-367.29	9.07
1488	2	0.67	0.21	-25.83	-3.35	9.48	2.31	-0.20	-119.87	-312.77	11.49
1488	3	0.67	0.79	-26.09	-3.30	12.39	-0.35	-1.11	-89.36	-368.81	-22.22
1488	4	0.18	0.79	-22.80	-5.24	9.75	5.84	19.75	-123.23	-432.27	-59.75
1489	1	0.21	0.21	-31.65	-9.39	1.49	20.06	9.02	-403.84	-429.13	-16.54
1489	2	0.78	0.21	-26.03	-6.88	3.75	7.25	3.01	-284.20	-298.50	12.52
1489	3	0.78	0.79	-24.91	-6.26	5.51	10.59	6.84	-166.11	-306.28	-88.60
1489	4	0.21	0.79	-27.48	-7.40	0.68	7.86	9.84	-181.12	-336.97	-108.63
1490	1	0.21	0.34	3.27	6.45	-0.22	3.01	19.31	-246.93	-3.39	-25.36
1490	2	0.79	0.34	2.52	8.03	1.05	0.49	18.92	-240.90	8.80	-23.80
1490	3	0.79	1.28	5.00	22.28	1.13	-16.33	19.70	-262.57	6.41	-62.71
1490	4	0.21	1.28	12.16	25.09	0.06	-12.56	32.53	-306.36	16.35	-49.70
1491	1	0.21	0.29	-2.59	-13.71	-0.23	-1.08	12.53	-231.57	0.65	-21.82
1491	2	0.79	0.29	-2.69	-13.54	0.04	-0.02	14.48	-224.74	10.47	-27.82
1491	3	0.79	1.09	0.15	-2.65	-0.12	-2.54	11.09	-246.10	6.46	-24.37
1491	4	0.21	1.09	-0.40	-2.04	-0.38	1.27	13.76	-239.86	0.78	-25.63
1492	1	0.21	0.32	-4.92	-24.46	-0.08	-0.05	4.97	-225.11	1.01	-3.09

1492	2	0.79	0.32	-4.96	-24.50	-0.03	-0.53	4.65	-217.56	1.47	-2.67
1492	3	0.79	1.19	-4.15	-19.52	-0.15	0.05	6.85	-216.79	0.37	-14.17
1492	4	0.21	1.19	-3.80	-19.35	-0.04	0.01	7.58	-225.65	0.29	-15.55
1493	1	0.21	0.28	-4.81	-23.64	0.02	-0.19	-3.11	-237.18	7.94	3.99
1493	2	0.79	0.28	-4.82	-23.71	0.08	-0.04	-3.09	-241.28	11.94	3.34
1493	3	0.79	1.06	-5.16	-25.58	-0.03	-0.59	-1.58	-226.33	13.25	11.53
1493	4	0.21	1.06	-5.21	-25.53	0.01	0.61	-1.80	-231.90	4.31	2.91
1494	1	0.30	0.21	-0.06	-1.38	-3.03	-0.89	-4.47	12.55	-372.22	31.18
1494	2	1.10	0.21	-0.07	-1.47	-2.23	-0.19	5.60	-23.11	-280.84	28.93
1494	3	1.10	0.79	-0.04	-1.45	-2.17	0.44	5.92	1.61	-206.86	-16.62
1494	4	0.30	0.79	0.21	-1.31	-3.08	0.36	-2.51	-33.05	-449.08	160.75
1495	1	0.23	0.21	1.65	0.12	-3.05	-3.86	-4.13	-4.64	-299.30	-41.92
1495	2	0.86	0.21	0.41	-0.89	-2.75	-2.65	3.17	26.46	-409.39	-21.47
1495	3	0.86	0.79	0.70	-1.05	-2.97	-2.02	5.47	-30.50	-496.78	-166.58
1495	4	0.23	0.79	1.85	-0.39	-3.46	-1.53	-4.49	4.95	-259.17	-12.48
1496	1	0.09	0.21	-2.28	-1.16	-2.62	-4.59	-4.14	-6.50	-347.73	32.17
1496	2	0.33	0.21	-3.09	-1.50	-1.59	-5.92	15.63	-3.54	-297.65	32.39
1496	3	0.33	0.79	-2.91	-0.19	-1.89	-0.68	20.46	-12.37	-301.92	29.22
1496	4	0.09	0.79	-2.49	0.16	-3.36	-2.09	-2.91	-10.77	-289.16	32.70
1497	1	0.09	0.21	4.55	4.13	-1.83	-6.88	-14.92	-18.51	-312.91	-25.65
1497	2	0.35	0.21	3.74	4.00	-1.85	-4.91	12.78	-12.96	-312.38	-27.86
1497	3	0.35	0.79	3.21	1.09	-2.76	-0.61	11.78	-13.52	-330.66	-34.85
1497	4	0.09	0.79	2.63	1.51	-2.62	0.65	-29.80	-6.20	-302.72	-43.72
1498	1	0.09	0.21	-5.02	-5.83	-1.53	-0.65	-14.27	-27.82	-329.77	25.75
1498	2	0.33	0.21	-4.91	-5.74	-1.42	-3.16	9.05	-30.38	-346.78	17.86
1498	3	0.33	0.79	-1.86	-2.97	-2.13	-1.30	32.72	-32.57	-375.23	36.24
1498	4	0.09	0.79	-2.77	-2.85	-2.33	1.38	-6.62	-20.82	-322.60	46.37
1499	1	0.09	0.21	2.87	3.88	-2.16	5.68	-5.13	-9.73	-420.14	-60.03
1499	2	0.32	0.21	4.38	4.41	-1.19	7.83	11.79	-2.38	-398.29	-25.94
1499	3	0.32	0.79	1.37	2.40	-1.19	6.73	6.28	-49.55	-454.73	-2.54
1499	4	0.09	0.79	0.92	2.22	-2.14	2.54	-11.87	-82.00	-499.79	-153.52
1500	1	0.13	0.21	-0.48	3.38	-2.84	4.25	-0.96	-56.43	-450.90	-126.60
1500	2	0.47	0.21	1.45	3.81	-2.19	5.79	3.80	-28.85	-445.96	-85.88
1500	3	0.47	0.79	-0.06	1.72	-1.86	4.53	-1.34	-114.15	-525.80	-51.30
1500	4	0.13	0.79	-0.46	1.76	-2.79	3.64	-4.92	-29.13	-483.38	-226.15
1501	1	0.18	0.21	-22.92	-4.77	9.80	-4.92	3.95	-72.84	-411.82	-68.85
1501	2	0.67	0.21	-22.65	-3.36	13.59	10.01	-3.50	-66.20	-400.14	-47.58
1501	3	0.67	0.79	-21.53	-5.21	10.50	13.46	-7.09	-54.46	-422.20	-60.62
1501	4	0.18	0.79	-34.24	-9.23	15.95	1.02	-6.19	-36.61	-421.75	-41.77
1502	1	0.21	0.21	-23.41	-5.03	0.92	-0.64	16.37	-15.77	-322.10	-57.16
1502	2	0.78	0.21	-22.38	-4.46	5.19	-5.84	20.61	-43.05	-367.08	-91.44
1502	3	0.78	0.79	-16.04	-3.25	5.54	-12.49	19.20	4.29	-364.04	-38.56
1502	4	0.21	0.79	-15.37	-1.06	0.85	9.67	9.95	23.23	-308.51	-50.29
1503	1	0.21	0.34	8.86	8.00	0.59	-1.97	15.61	-242.70	13.58	-22.93
1503	2	0.79	0.34	0.39	7.59	0.07	1.84	15.26	-236.50	18.66	-25.30
1503	3	0.79	1.28	2.57	22.25	0.50	1.36	5.65	-209.94	12.14	-46.72
1503	4	0.21	1.28	2.31	21.33	0.19	-2.10	3.28	-218.00	8.79	-60.39
1504	1	0.21	0.29	-2.76	-13.27	0.12	1.76	12.79	-244.14	15.56	-29.38
1504	2	0.79	0.29	-2.92	-13.40	-0.07	0.15	12.43	-239.50	19.78	-19.53
1504	3	0.79	1.09	-1.11	-2.16	-0.22	0.59	17.16	-224.67	21.21	-22.02
1504	4	0.21	1.09	-0.76	-2.64	0.20	-2.40	16.97	-239.88	16.38	-23.09
1505	1	0.21	0.32	-4.99	-24.55	-0.03	0.79	5.16	-194.97	3.47	8.13
1505	2	0.79	0.32	-4.99	-24.60	-0.01	0.11	5.39	-186.22	15.53	31.70
1505	3	0.79	1.19	-3.91	-19.44	-0.10	-1.60	6.35	-186.14	16.36	-48.24
1505	4	0.21	1.19	-3.91	-19.51	-0.16	-0.44	6.26	-143.19	2.96	-24.20
1506	1	0.21	0.28	-4.82	-23.75	0.10	-0.09	-3.28	-291.12	17.10	3.88
1506	2	0.79	0.28	-4.83	-23.80	0.09	0.01	-3.74	-245.35	15.68	2.94
1506	3	0.79	1.06	-5.23	-25.71	-0.05	-0.60	-1.69	-240.70	16.88	2.23
1506	4	0.21	1.06	-5.23	-25.64	-0.04	-0.14	-1.68	-244.99	16.00	13.67
1507	1	0.30	0.21	0.40	-0.67	-2.87	-1.28	-2.34	21.87	-64.75	150.80
1507	2	1.10	0.21	-0.01	-1.22	-2.14	-0.45	6.39	-1.52	-250.42	-16.01
1507	3	1.10	0.79	0.02	-0.64	-2.29	-0.27	6.94	20.72	-183.17	24.40
1507	4	0.30	0.79	0.51	-0.27	-2.85	-1.04	-4.18	-19.44	-139.44	21.55
1508	1	0.23	0.21	1.76	-1.02	-3.04	-0.61	-4.15	-24.47	-305.59	-14.57
1508	2	0.86	0.21	0.96	-0.60	-2.64	0.92	5.34	11.56	-44.07	-160.34
1508	3	0.86	0.79	1.02	-0.44	-2.21	-0.78	3.39	-37.22	-126.17	-88.25
1508	4	0.23	0.79	1.84	-1.08	-2.27	-0.57	-3.73	-11.35	-262.33	-43.21
1509	1	0.09	0.21	-2.37	1.29	-2.77	0.94	-2.10	-9.86	-306.36	31.59
1509	2	0.33	0.21	-2.48	1.44	-1.74	0.71	12.32	-6.03	-314.81	26.76
1509	3	0.33	0.79	-2.52	2.16	-0.99	1.61	9.26	-11.26	-306.15	21.44
1509	4	0.09	0.79	-2.47	1.86	-1.57	1.23	-4.96	-9.60	-243.69	28.29
1510	1	0.09	0.21	0.82	-3.02	-2.17	7.97	-24.96	1.07	-347.79	-34.27
1510	2	0.35	0.21	1.77	-2.85	-2.07	8.12	9.31	0.79	-322.58	-28.34
1510	3	0.35	0.79	1.96	-4.11	-0.89	7.84	10.17	-0.29	-325.04	-12.15
1510	4	0.09	0.79	0.31	-4.68	-0.89	9.00	-4.50	8.91	-328.15	-0.11
1511	1	0.09	0.21	0.56	3.50	-1.94	7.16	-3.77	25.40	-331.60	44.51
1511	2	0.33	0.21	1.41	3.42	-1.79	9.55	30.01	42.42	-253.11	38.01
1511	3	0.33	0.79	2.78	6.24	-0.85	12.13	3.95	43.35	-322.76	-9.34
1511	4	0.09	0.79	1.16	5.68	-0.84	7.66	-11.46	32.56	-330.20	-1.49
1512	1	0.09	0.21	-1.56	-1.86	-1.63	-1.02	-15.85	58.92	-51.76	-232.12
1512	2	0.32	0.21	-1.77	-2.19	-1.13	-3.71	1.53	43.74	-157.34	-43.75
1512	3	0.32	0.79	-3.19	-4.60	-0.94	-7.16	10.87	88.88	-267.47	-6.96
1512	4	0.09	0.79	-2.54	-3.99	-1.85	-2.67	-1.32	128.64	-221.14	-39.54
1513	1	0.13	0.21	-0.43	-0.76	-2.00	-1.80	-5.34	-171.15	-145.05	-158.07
1513	2	0.47	0.21	-0.80	-1.20	-1.49	-1.97	-2.13	-171.90	-47.78	-121.59
1513	3	0.47	0.79	-1.65	-3.45	-1.91	-6.33	2.89	-117.32	-185.95	-33.31
1513	4	0.13	0.79	-0.59	-2.62	-2.22	-4.47	-3.08	-265.50	-156.33	-19.32
1514	1	0.18	0.21	-22.14	-5.15	6.91	20.39	-6.66	-22.41	-340.95	-9.11
1514	2	0.67	0.21	-14.47	-6.29	5.02	6.70	-4.31	-56.28	-425.97	-79.21
1514	3	0.67	0.79	-16.72	-5.75	1.44	10.77	-0.87	-18.37	-390.86	-6.26
1514	4	0.18	0.79	-23.16	-4.59	3.85	12.06	-10.41	-21.74	-340.09	15.72
1515	1	0.21	0.21	-43.13	0.13	2.13	-4.57	13.91	22.70	-332.69	-58.42
1515	2	0.78	0.21	-45.93	-6.94	13.61	20.27	9.74	-1.92	-423.53	-6.16
1515	3	0.78	0.79	-27.40	-2.20	7.37	10.48	-0.76	-29.21	-441.84	12.32
1515	4	0.21	0.79	-30.57	-1.06	5.82	-4.78	29.93	4.56	-345.05	-23.08
1516	1	0.21	0.34	1.04	7.99	-0.21	2.59	15.50	-229.41	24.51	-27.01
1516	2	0.79	0.34	1.27	7.69	-0.40	-0.06	15.89	-227.40	23.16	-28.85
1516	3	0.79	1.28	4.51	24.33	-0.52	0.57	22.11	-187.77	14.56	-34.64
1516	4	0.21	1.28	3.77	23.55	0.19	2.31	27.26	-185.05	19.72	-39.85
1517	1	0.21	0.29	-2.96	-13.61	-0.18	0.46	13.78	-244.07	13.09	-20.85
1517	2	0.79	0.29	-2.88	-13.48	-0.23	0.32	14.14	-239.21	13.64	-33.34
1517	3	0.79	1.09	-0.55	-2.00	-0.11	-1.19	14.13	-234.26	16.84	-25.63
1517	4	0.21	1.09	-0.72	-2.07	-0.27	-0.63	12.05	-238.59	15.26	-27.21
1518	1	0.21	0.32	-5.01	-24.61	-0.02	0.32	5.03	-301.60	11.24	23.21
1518	2	0.79	0.32	-5.00	-24.66	-0.10	-0.54	5.07	-292.46	22.30	6.74
1518	3	0.79	1.19	-4.09	-19.61	-0.21	-0.15	6.35	-292.06	24.47	-27.04
1518	4	0.21	1.19	-4.08	-19.47	-0.16	0.14	6.84	-299.83	13.31	-46.00
1519	1	0.21	0.28	-4.81	-23.84	0.07	-0.03	-3.01	-248.47	9.11	2.77
1519	2	0.79	0.28	-4.79	-23.91	0.04	-0.09	-3.11	-246.35	6.59	3.31
1519	3	0.79	1.06	-5.17	-25.61	-0.02	-0.26	-1.70	-242.87	8.59	12.46
1519	4	0.21	1.06	-5.18	-25.75	-0.00	0.14	-1.82	-247.36	8.84	1.91
1520	1	0.30	0.21	0.02	-0.32	-2.92	-1.09	-6.05	-34.18	-146.30	-13.14
1520	2	1.10	0.21	-0.39	-0.35	-2.55	-0.99	7.20	9.66	-172.21	29.24
1520	3	1.10	0.79	-0.83	0.29	-2.09	6.96	8.20	-12.61	-161.80	9.99
1520	4	0.30	0.79	-0.63	-0.02	-2.92	-4.91	-6.29	-27.95	-166.79	-4.85
1521	1	0.23	0.21	1.65	-0.79	-1.81	-0.12	-3.47	-0.84	-227.22	-49.19

1521	2	0.86	0.21	0.89	-0.28	-1.82	-0.61	5.33	-41.96	-167.86	-1.54
1521	3	0.86	0.79	0.64	0.13	-1.60	1.64	6.51	-27.41	-187.35	-20.16
1521	4	0.23	0.79	1.15	-0.07	-1.45	-0.81	-3.55	-17.57	-217.46	-24.45
1522	1	0.09	0.21	-2.00	1.05	-0.92	-0.49	-5.46	-20.86	-285.39	8.91
1522	2	0.33	0.21	-2.10	1.15	-0.52	1.96	2.88	-11.10	-288.24	9.45
1522	3	0.33	0.79	-1.68	0.15	-0.44	-1.74	3.65	-3.78	-269.54	7.65
1522	4	0.09	0.79	-1.45	0.22	-0.59	-1.62	-4.44	-5.22	-258.54	19.07
1523	1	0.09	0.21	0.50	-2.23	-0.39	6.25	2.24	-4.34	-310.69	8.78
1523	2	0.35	0.21	1.82	-2.12	-0.32	3.40	9.14	-10.08	-297.24	-4.42
1523	3	0.35	0.79	1.68	0.16	-0.37	0.89	5.49	-7.34	-276.40	3.49
1523	4	0.09	0.79	1.41	0.05	-0.41	-0.19	-0.67	-7.15	-276.06	13.26
1524	1	0.09	0.21	-0.12	2.46	-0.43	3.30	-11.60	-6.06	-305.91	-29.50
1524	2	0.33	0.21	1.27	2.56	-0.48	4.32	-4.81	6.48	-281.44	-34.21
1524	3	0.33	0.79	-0.86	-0.41	-0.60	-0.79	3.32	-18.86	-277.09	-22.99
1524	4	0.09	0.79	-1.23	-0.43	-0.56	0.98	-7.39	-13.63	-275.14	-19.27
1525	1	0.09	0.21	-1.34	-2.37	-2.07	0.79	5.10	11.41	-311.00	58.39
1525	2	0.32	0.21	-1.62	-2.25	-1.02	0.67	16.10	-15.64	-288.70	39.05
1525	3	0.32	0.79	0.48	-0.05	-0.86	5.40	9.77	-30.43	-275.77	28.03
1525	4	0.09	0.79	-0.32	-0.33	-1.69	3.48	0.07	-34.18	-263.68	23.06
1526	1	0.13	0.21	-0.87	-2.32	-2.45	0.74	0.00	-148.29	-326.15	146.45
1526	2	0.47	0.21	-1.49	-2.24	-2.28	-1.28	5.64	33.78	-336.47	35.50
1526	3	0.47	0.79	-0.93	-1.01	-1.84	3.82	3.75	-15.91	-299.99	26.82
1526	4	0.13	0.79	-1.72	-1.59	-2.01	3.24	-0.75	-36.21	-325.22	55.24
1527	1	0.18	0.21	-23.85	-4.59	3.21	5.45	-2.17	-8.81	-324.65	25.44
1527	2	0.67	0.21	-18.73	-4.62	0.68	6.25	-0.30	-20.10	-361.67	8.89
1527	3	0.67	0.79	-21.91	-4.07	0.44	4.21	-2.86	-8.68	-324.39	19.03
1527	4	0.18	0.79	-24.04	-4.33	2.05	4.04	-4.90	-0.77	-321.02	37.99
1528	1	0.21	0.21	-29.49	-1.07	4.71	8.23	14.37	12.57	-380.57	0.98
1528	2	0.78	0.21	-25.11	-1.56	7.22	-0.94	-12.87	-2.37	-462.77	15.64
1528	3	0.78	0.79	-25.22	-2.20	6.12	5.32	-12.73	15.19	-478.99	28.84
1528	4	0.21	0.79	-27.99	-2.72	5.33	2.39	15.92	9.40	-411.22	11.14
1529	1	0.21	0.34	1.11	7.48	-0.36	-1.61	16.13	-224.16	20.11	-30.29
1529	2	0.79	0.34	1.17	7.86	-0.47	-0.75	15.90	-228.16	17.61	-29.58
1529	3	0.79	1.28	4.20	23.62	-0.42	1.81	18.13	-196.88	13.24	-16.30
1529	4	0.21	1.28	4.19	24.13	-0.16	0.03	13.90	-184.44	12.29	-22.02
1530	1	0.21	0.29	-2.82	-13.44	-0.27	-0.40	13.48	-257.00	15.08	-33.03
1530	2	0.79	0.29	-2.78	-13.59	-0.37	-1.25	12.96	-249.49	19.27	-26.54
1530	3	0.79	1.09	-0.74	-2.23	-0.39	1.23	15.15	-234.81	16.98	-30.78
1530	4	0.21	1.09	-0.68	-2.03	-0.35	1.49	15.89	-235.92	19.82	-28.52
1531	1	0.21	0.32	-4.96	-24.71	-0.15	0.24	5.20	-269.37	22.19	-5.17
1531	2	0.79	0.32	-4.91	-24.83	-0.16	-0.54	5.17	-261.12	19.45	-6.14
1531	3	0.79	1.19	-3.87	-19.62	-0.22	0.16	6.82	-259.35	20.67	-19.12
1531	4	0.21	1.19	-3.97	-19.64	-0.18	0.64	6.44	-267.16	24.52	-17.80
1532	1	0.21	0.28	-4.77	-23.97	0.03	-0.10	-3.18	-245.74	10.40	2.49
1532	2	0.79	0.28	-4.74	-24.04	0.02	-0.02	-3.14	-249.14	11.74	2.77
1532	3	0.79	1.06	-5.12	-25.92	-0.03	-0.36	-1.80	-254.53	15.70	0.53
1532	4	0.21	1.06	-5.17	-25.86	-0.03	0.30	-1.80	-261.23	9.77	9.78
1533	1	0.30	0.25	-0.63	0.74	-2.39	0.64	-0.93	-21.19	-173.87	-3.16
1533	2	1.10	0.37	-1.39	1.47	-2.24	-2.08	6.37	-20.98	-163.86	-12.01
1533	3	1.10	0.95	-3.53	2.13	-2.21	-7.55	-5.64	-28.69	-155.82	-6.96
1533	4	0.30	0.83	-0.47	1.31	-1.47	3.70	-4.15	-17.24	-178.91	-6.48
1534	1	0.23	0.21	0.75	0.21	-1.40	-2.24	-2.94	-19.96	-222.19	-10.54
1534	2	0.86	0.21	0.07	-0.10	-1.55	-1.40	-0.12	-18.01	-190.35	-17.56
1534	3	0.86	0.79	-0.50	0.48	-1.52	-2.25	6.95	-17.22	-192.42	-9.66
1534	4	0.23	0.79	0.60	0.58	-1.34	-2.47	-2.51	-11.81	-217.47	-5.62
1535	1	0.09	0.21	-1.45	-0.36	-0.73	-0.27	-6.02	-6.66	-234.45	15.06
1535	2	0.33	0.21	-1.75	-0.46	-0.63	-1.99	4.36	-7.70	-250.36	3.65
1535	3	0.33	0.79	-1.88	-0.76	-0.63	-1.83	5.96	-6.39	-236.69	-1.42
1535	4	0.09	0.79	-1.49	-0.63	-0.91	-1.05	-3.23	-9.32	-227.67	1.73
1536	1	0.09	0.21	1.82	0.56	-0.73	-1.86	-5.70	-5.67	-265.34	8.[illegible]
1536	2	0.35	0.21	1.71	0.38	-0.68	0.71	6.71	-2.80	-257.27	-0[illegible]
1536	3	0.35	0.79	2.00	0.66	-0.72	0.95	6.09	-5.39	-243.32	3.81
1536	4	0.09	0.79	1.84	0.51	-0.76	0.52	-5.97	-4.19	-253.73	7.76
1537	1	0.09	0.21	-1.54	-0.46	-0.79	3.11	-5.27	-2.52	-268.12	-10.46
1537	2	0.33	0.21	-1.40	-0.40	-0.72	0.85	7.10	-9.88	-271.76	-16.05
1537	3	0.33	0.79	-1.11	0.03	-0.65	2.09	6.46	-3.14	-266.51	-12.63
1537	4	0.09	0.79	-1.65	-0.07	-0.60	2.39	-5.29	-2.73	-259.68	-10.07
1538	1	0.09	0.21	-0.24	-0.45	-1.32	3.78	-2.07	-13.61	-280.18	19.76
1538	2	0.32	0.21	0.88	-0.07	-0.69	5.24	6.26	2.93	-271.51	13.48
1538	3	0.32	0.79	0.61	-0.43	-0.54	4.01	4.82	-3.45	-269.36	13.98
1538	4	0.09	0.79	-0.20	-0.58	-0.99	3.64	-2.24	-4.60	-271.68	15.40
1539	1	0.13	0.21	-2.10	-1.37	-1.53	3.71	-0.44	-4.63	-261.38	29.91
1539	2	0.47	0.21	-0.80	-0.72	-1.35	4.87	1.86	-39.63	-279.03	37.90
1539	3	0.47	0.79	-0.99	-0.99	-0.99	4.16	1.26	-6.50	-263.39	16.43
1539	4	0.13	0.79	-2.27	-1.33	-1.19	4.13	-0.77	-13.72	-250.72	18.47
1540	1	0.18	0.21	-24.44	-4.38	1.97	3.60	-4.39	-6.19	-312.94	44.70
1540	2	0.67	0.21	-23.35	-3.91	0.76	3.07	0.10	-16.01	-305.15	28.25
1540	3	0.67	0.79	-23.95	-3.98	1.32	3.26	-1.33	-38.89	-280.45	49.72
1540	4	0.18	0.79	-25.23	-4.82	2.13	3.50	-5.14	-23.96	-302.43	52.79
1541	1	0.21	0.21	-28.61	-3.20	4.12	3.67	14.90	21.02	-440.82	14.19
1541	2	0.78	0.21	-26.83	-3.10	6.61	3.39	-13.72	9.49	-490.86	44.75
1541	3	0.78	0.79	-27.02	-4.79	5.95	4.13	-12.84	-44.90	-503.75	73.15
1541	4	0.21	0.79	-28.12	-4.92	4.45	1.13	11.73	35.79	-482.26	17.94
1542	1	0.21	0.34	1.40	8.00	-0.65	0.04	16.07	-229.67	15.24	-29.23
1542	2	0.79	0.34	1.61	8.11	-0.72	-0.12	19.32	-233.98	9.81	-31.59
1542	3	0.79	1.28	4.90	23.37	-0.56	5.98	15.55	-229.86	4.41	-6.09
1542	4	0.21	1.28	3.91	23.28	-0.49	-0.16	15.95	-206.80	11.76	-12.96
1543	1	0.21	0.29	-2.74	-13.65	-0.44	0.10	13.41	-246.85	17.80	-24.85
1543	2	0.79	0.29	-2.57	-13.67	-0.49	-0.26	13.53	-241.69	12.59	-23.34
1543	3	0.79	1.09	-0.54	-2.50	-0.49	-1.19	12.65	-232.24	10.64	-27.30
1543	4	0.21	1.09	-0.47	-2.29	-0.42	0.83	15.23	-235.88	12.33	-31.24
1544	1	0.21	0.32	-4.87	-24.89	-0.16	0.03	5.01	-254.90	18.46	-7.16
1544	2	0.79	0.32	-4.82	-24.94	-0.16	-0.70	5.08	-248.77	17.57	-8.61
1544	3	0.79	1.19	-3.74	-19.87	-0.26	0.46	7.08	-246.10	16.24	-17.06
1544	4	0.21	1.19	-3.92	-19.71	-0.24	0.27	6.65	-252.14	18.88	-18.87
1545	1	0.21	0.28	-4.71	-24.10	0.02	-0.17	-3.03	-248.41	12.93	3.26
1545	2	0.79	0.28	-4.68	-24.17	0.03	-0.12	-3.17	-247.91	14.98	1.22
1545	3	0.79	1.06	-5.07	-26.09	-0.04	-0.31	-1.75	-248.13	16.58	-3.27
1545	4	0.21	1.06	-5.07	-25.98	-0.04	0.58	-1.68	-252.88	16.90	-2.24
1546	1	0.17	0.12	26.58	-0.72	0.70	-5.92	1.01	-13.67	6.93	19.75
1546	2	0.62	0.12	21.77	0.55	0.65	-7.45	-0.52	-11.28	-11.38	17.79
1546	3	0.53	0.45	22.91	0.53	2.02	-7.81	-0.10	-10.57	-0.54	15.32
1546	4	0.14	0.44	27.13	-0.42	1.80	-6.25	3.69	-11.73	6.95	20.65
1547	1	0.12	0.12	17.81	1.35	0.47	-8.02	0.43	-5.50	-44.82	12.94
1547	2	0.58	0.13	12.92	2.24	0.16	-7.14	-0.93	9.60	-112.21	5.92
1547	3	0.37	0.50	14.72	2.03	1.73	-6.25	-2.45	3.35	-72.65	-4.19
1547	4	-0.02	0.47	19.19	1.23	1.99	-8.35	1.12	-5.12	-21.07	9.59
1548	1	0.08	0.14	9.98	2.49	-0.09	-6.55	0.45	19.98	-165.53	2.61
1548	2	0.53	0.16	6.92	2.61	-0.33	-4.73	-1.91	26.89	-223.06	-1.15
1548	3	0.19	0.59	8.51	2.82	0.72	-3.53	-0.27	28.76	-163.28	-7.02
1548	4	-0.18	0.53	11.60	2.37	1.25	-6.10	-1.27	16.27	-119.69	-7.43
1549	1	0.13	0.12	27.72	0.22	1.79	-5.89	6.63	-0.31	4.97	20.08
1549	2	0.47	0.12	23.79	0.92	2.00	-9.52	3.03	3.07	4.95	17.15
1549	3	0.39	0.45	26.34	1.11	3.29	-11.46	1.35	36.33	4.90	12.67
1549	4	0.12	0.44	30.46	0.61	1.52	-19.17	5.32	21.65	1.91	8.39
1550	1	0.10	0.13	20.65	1.09	0.93	-11.64	3.98	3.11	-6.09	10.56

1550	2	0.43	0.14	16.21	1.45	0.66	-12.01	-0 55	5.50	-34.35	-7.54
1550	3	0.27	0.53	18.47	1.32	3.28	-3.32	-0.27	45.48	-2.63	9.44
1550	4	0.00	0.48	23.43	0.94	2.41	-7.59	2.64	46.28	5.98	12.82
1551	1	0.06	0.16	13.35	1.64	-0.27	-12.24	-0.31	0.08	-67.86	-32.46
1551	2	0.39	0.18	9.82	1.80	-0.14	-10.76	-4.04	6.98	-128.69	-52.51
1551	3	0.14	0.67	11.51	1.40	2.46	-1.67	-0.71	19.36	-38.86	-23.10
1551	4	-0.12	0.59	15.67	1.07	2.30	-2.59	0.55	39.36	-8.73	-2.16
1552	1	0.16	0.12	-29.15	1.42	0.56	-3.07	-0.45	-12.20	1.04	-18.55
1552	2	0.61	0.12	-30.41	1.75	0.36	-0.59	-0.35	-4.23	-31.95	-14.79
1552	3	0.52	0.45	-31.12	1.87	0.38	-1.73	-2.92	-12.60	-22.81	-22.12
1552	4	0.14	0.44	-29.48	1.21	1.28	-5.10	-2.30	-13.04	0.71	-19.35
1553	1	0.12	0.12	-29.94	1.36	0.21	1.08	0.22	5.83	-72.04	-12.20
1553	2	0.57	0.13	-28.11	-0.04	0.27	1.52	-0.94	26.86	-141.05	-9.97
1553	3	0.36	0.50	-29.51	1.14	-1.85	-1.76	2.51	5.95	-109 48	-28.35
1553	4	-0.01	0.47	-30.75	1.89	-0.58	-2.39	-1.56	-6.66	-54.22	-24.03
1554	1	0.08	0.14	-26.68	-0.89	0.40	2.11	-0.55	40.81	-187.15	-6.96
1554	2	0.52	0.16	-25.10	-2.12	0 47	0.82	2.75	51.40	-237.33	-5.89
1554	3	0.19	0.58	-25 95	-2.28	-2.09	-7.42	-3.43	33.64	-207.52	-20 80
1554	4	-0.18	0.53	-27.56	0.06	-2.09	-6.08	0 28	18.27	-155.84	-27.15
1555	1	0.13	0.12	-29.68	0.01	3.74	-1.95	-6.10	-7 89	2.76	-16.39
1555	2	0.46	0.12	-31.45	1.25	3.16	3.85	-6 54	-13.70	-13.13	-19.81
1555	3	0.39	0.45	-33.70	0.00	0.13	-32.44	-9.14	-4.57	-4.25	-7.92
1555	4	0.12	0.44	-32.20	-0.56	2.42	-25.89	-9.88	9.74	1 60	-6 79
1556	1	0.10	0.12	-31 40	1.41	4.95	9.59	-5.06	-23.14	-28.70	-28.32
1556	2	0.43	0.14	-30.63	2.42	3 69	13.42	-3.07	-21.63	-70.57	-44.88
1556	3	0.27	0.53	-32.60	0.72	-1.29	-37.95	-11.87	-32.95	-25.21	-26.84
1556	4	0.00	0.48	-33.61	0.30	0.90	-36.86	-10.13	-15.09	-4.93	-11.81
1557	1	0.06	0.16	-29.05	1.89	5.07	19.47	0.41	-26.56	-102.08	-65.78
1557	2	0.39	0.18	-26.92	1.90	3.60	17.17	9.26	-17.73	-160.55	-78.04
1557	3	0.14	0.66	-28.80	1.72	-2.23	-31.61	-16.13	-73.86	-77.50	-73.69
1557	4	-0.11	0 59	-31.40	1.57	-0 15	-37.99	-12 72	-52.99	-36.90	-42.49
1558	1	0.36	0.12	-3 07	-25.11	0.35	0.77	1 66	-253 49	49.02	6.62
1558	2	0.90	0.10	-3.03	-23.42	1.67	4.02	-0 82	-266.72	32.09	12.69
1558	3	1.21	0.37	-2.24	-22.99	3.27	-0.47	1.79	-261.64	15.08	30.36
1558	4	0.76	0.46	-1 68	-23.45	1.45	-0.94	2.66	-276.98	28.05	25.51
1559	1	0.30	0.09	-2.88	-21.66	2.76	2.76	4.91	-285.54	13.46	17.61
1559	2	0.85	0 07	-3.46	-18.04	3.72	5 42	2.99	-314.92	-23.26	26.58
1559	3	1.01	0 27	-3.86	-16.00	5.76	5.95	5.86	-337 52	-41.45	49.95
1559	4	0.54	0.32	-1.87	-20.64	4.19	3 92	0 09	-293 01	-6.97	37.99
1560	1	0.25	0.07	-5.08	-14 20	3.37	5.08	7.01	-348.48	-50.75	40.95
1560	2	0.80	0.06	-6.60	-10 32	0.36	-2.15	8 94	-366.13	-59.71	91.06
1560	3	0.83	0.22	-7.91	-7.10	0.76	-0.98	9 53	-406.11	-59.69	59.74
1560	4	0.35	0.24	-5.84	-10.63	4.74	3.96	8 35	-378.26	-58.69	58.38
1561	1	0.27	0.16	-3.79	-23.40	10.96	13.70	-5 74	-219.46	18.58	-20.01
1561	2	0.66	0.13	-4.75	-18.61	11 99	16.64	0 73	-268.11	-0.95	-16.51
1561	3	0.89	0.47	-8.88	-11.01	11.03	-36.33	16 01	-289.32	-25.20	65.90
1561	4	0.57	0.59	-6.34	-17.15	12 64	-26.83	20 50	-189.02	-21 58	51.74
1562	1	0.24	0.10	-4.82	-16.90	11.05	14.31	9.15	-309.23	-17.61	20.08
1562	2	0.65	0.08	-7.33	-9.78	8.92	3.61	7 37	-377.15	-42.86	28.11
1562	3	0.78	0.30	-9.90	-2.83	5.66	-31.72	10 73	-473.00	-36.38	78.24
1562	4	0.44	0 37	-8.03	-8.02	9 18	-36.03	15.38	-350.03	-43.34	100.86
1563	1	0.20	0.07	-7.71	-7.05	5.55	2.32	12.50	-423.15	-53.34	58.74
1563	2	0.62	0 06	-9.32	-4.15	0.31	-0.92	9.46	-450.27	-42.15	30.35
1563	3	0.64	0.23	-9.98	-0.66	-0.33	1.42	4.24	-528.52	-14.26	12.05
1563	4	0.29	0 25	-9.37	-2.87	4.07	-21.01	10.14	-508.78	-31.49	88.31
1564	1	0.20	0.06	-6.80	-10.63	-3.56	1.95	9 01	-355.76	-49.75	46.48
1564	2	0.75	0.07	-5.74	-14.85	-6.39	-3 86	5.90	-306 65	-46 78	28.66
1564	3	0.65	0.24	-6.38	-11.58	-7.54	-3.45	7 28	-320.25	-33.08	5.19
1564	4	0.17	0.22	-8.15	-7.56	-3.85	0.80	9.40	-382.60	-41.73	31.78
1565	1	0.15	0.07	-4.45	-18.58	-6.54	-3.94	2.70	-243.60	-66.72	-7.50
1565	2	0.70	0.09	-3.95	-21 78	-5.39	-0.91	4.85	-187.53	-86 81	-44.49
1565	3	0.46	0.32	-2.87	-20.97	-6.42	-2.56	0.00	-206.89	-61.99	-42 87
1565	4	-0.01	0.27	-4.72	-16 87	-8.23	-5.04	4.76	-259.22	-50.63	-9.42
1566	1	0.10	0.10	-3.93	-23.12	-4.16	-1.78	0.56	-240.68	-66.48	-66.91
1566	2	0.64	0.12	-3.73	-24.37	-2.78	1.10	2.74	-231.05	-80 87	-46.11
1566	3	0.24	0.46	-2.54	-22.85	-3.53	2.23	3.48	-184.50	-82 53	-45.06
1566	4	-0.21	0.37	-3.22	-22 89	-5 40	2.17	2.15	-188.81	-68.28	-49.14
1567	1	0.16	0.06	-9.82	-4.15	-3.34	2.07	9.34	-411.05	-39.91	38 34
1567	2	0.58	0.07	-8.59	-7.93	-8.43	-1.86	11.44	-333.84	-27.65	0.91
1567	3	0.49	0.25	-10.71	-3.35	-5.60	34.14	11.26	-360.01	-15.51	-47.99
1567	4	0.14	0.23	-10.46	-0.64	-1.09	14.68	4.77	-481.07	-17.12	13.85
1568	1	0.12	0.08	-8.76	-10.31	-11.49	-4 03	6.36	-269.62	-36 49	6.25
1568	2	0.53	0.10	-6.37	-17.18	-13.13	-13.63	7 58	-215.29	-36.58	-22.05
1568	3	0.33	0.37	-9.89	-8.73	-10.71	41.73	16.17	-196.80	-30.34	-54.24
1568	4	-0.01	0.30	-11.78	-3.49	-7.48	41.68	11 79	-296.11	-16.14	-33.53
1569	1	0.07	0.13	-6.59	-18.07	-13.53	-16.04	0 10	-192.76	-42.86	-21.90
1569	2	0.46	0.16	-5.41	-22.12	-12.10	-11.60	-5.36	-174.92	-51.74	-28.31
1569	3	0.16	0.59	-7.90	-16.87	-13.40	28.59	19.93	-117.77	-39 01	-59.15
1569	4	-0.16	0.47	-10.86	-11.28	-12.22	39.84	15 93	-165.66	-21.67	-45.32
1570	1	0.29	0.16	-24.04	-2.69	1.84	0 49	0.66	-74.23	-222.26	39.59
1570	2	0.74	0.14	-24.87	-1.52	1.46	-0.90	-1 20	-92.93	-163.57	21 64
1570	3	1.00	0.53	-25.93	-0.60	3.52	6.84	-0 90	-99 12	-110.16	34.22
1570	4	0.63	0.58	-24.91	-2.99	3.97	7 64	-3.87	-98.87	-160 23	41 71
1571	1	0.25	0.13	-25.82	-0.69	1.26	0.53	-2.18	-114.37	-122.47	15.37
1571	2	0.69	0.12	-26.86	0.27	0.80	0 07	-0.73	-130.45	6.60	5.16
1571	3	0.83	0.47	-27.88	1 27	1.33	3.40	-2.49	-116.64	-18.30	29 34
1571	4	0.45	0.50	-27.34	0.53	2.94	2.73	0 82	-109.89	-77 94	22.47
1572	1	0.20	0.12	-26.83	1.20	0.38	2.15	-1 48	-78.86	-16.43	75.66
1572	2	0.65	0.12	-25.13	0.95	-0.24	3.75	-1.10	-112 37	-25.43	27.22
1572	3	0.68	0.44	-25.64	0.77	-0.93	5.83	-2.46	-105.09	-25.41	37 31
1572	4	0.29	0.45	-27.70	1.30	0.17	3.61	-3.55	-111 83	-11.95	43.10
1573	1	0.22	0.18	-26.65	1.71	-1.79	-14.39	7.05	-109.89	-106.38	49.97
1573	2	0.54	0.16	-28.07	1.59	-3.39	-15.99	-1.08	-114.51	-71 67	31.39
1573	3	0.72	0.59	-30 48	1.17	0.98	36.57	-12.98	-111.49	-22 16	28 74
1573	4	0.46	0.66	-28.80	1.22	3.27	31.06	-17.18	-100.52	-42.45	48.23
1574	1	0.19	0.14	-29.79	1.37	-2.47	-10.29	-4.32	-114.83	-36 56	17 12
1574	2	0.52	0.13	-28.76	1.01	-3.76	-6.08	-5.35	-121.72	-18.43	26.87
1574	3	0.62	0.48	-30.92	0.10	-0.47	34.68	-9.56	-122.29	-6.21	18.26
1574	4	0.35	0.53	-30.87	0.33	1 97	36 17	-11.71	-116.76	-16 64	31.11
1575	1	0.16	0.12	-28.21	0 84	-2.34	-1.58	-6.62	-116 96	-10.50	27 60
1575	2	0.50	0.12	-25.99	-0.20	-3.13	3.44	-5.50	-92.21	-8.92	35.93
1575	3	0.51	0.44	-28.32	-0.55	-2.07	24.65	-8.14	-101 39	-4.25	13.72
1575	4	0.23	0.45	-30.37	-0.10	0.14	30.56	-8.52	-115 24	-11.02	25.13
1576	1	0.17	0.12	-22.43	0.35	-0.54	6.26	-1.58	-107.54	-18.56	40.31
1576	2	0.62	0.12	-17.77	-0.73	-0.81	7.07	-0 17	-97.03	-52 21	28.36
1576	3	0.53	0.45	-19.06	-0.70	-1.93	7.59	-0.17	-90 27	-32.04	21 30
1576	4	0.14	0.44	-23.16	0.09	-1.55	6.71	-3.81	-98.83	-9.26	36.22
1577	1	0.12	0.12	-14.11	-1.33	-0.90	7.96	-0.96	-80 45	-83 51	17.22
1577	2	0.58	0.13	-9.73	-1.91	-1.01	6.41	0.35	-96.19	-181 32	6.78
1577	3	0.37	0.50	-11.65	-1.77	-2.07	6.15	1.52	-91.99	-105.26	-10 62
1577	4	-0.02	0 47	-15.66	-1.23	-2.64	8 32	-1 59	-75 40	-56 91	5 79
1578	1	0.08	0.14	-7.08	-1.97	-1.05	6.44	-0.82	-37 49	-180 52	6 91
1578	2	0.53	0.16	-4.33	-1.78	-1.08	4.94	1.14	-14.58	-227.56	8.75
1578	3	0.19	0.59	-6.16	-2.09	-1.64	4.14	-0.27	-11 62	-159.10	-12.17
1578	4	-0.18	0.53	-8.91	-1.89	-1.86	6.36	0.43	-25.27	-149.18	-15.41
1579	1	0.13	0.12	-23.84	-0.29	-1.61	6.27	-6.63	-92.20	-17.49	39.89

1579	2	0.47	0.12	-20.03	-1.00	-1.98	9.08	-2.72	-78.22	-13.74	20.82	1593	4	-0.16	0.48	-3.61	-2.49	-2.50	-1.38	-0.03	-170.90	7.36	-15.07
1579	3	0.39	0.45	-22.38	-1.03	-2.98	12.04	-0.78	-48.20	-2.03	4.35	1594	1	0.13	0.21	-2.32	-1.45	-1.13	4.27	-0.26	-9.44	-254.09	13.7
1579	4	0.12	0.44	-26.39	-0.59	-1.37	18.93	-4.65	-74.60	-3.83	15.55	1594	2	0.47	0.21	-1.04	-1.10	-0.88	3.54	1.30	6.46	-265.20	12.1
1580	1	0.10	0.13	-17.17	-1.08	-0.85	10.05	-2.97	-72.01	-30.35	6.82	1594	3	0.47	0.79	-0.93	-1.15	-0.77	3.09	1.96	6.97	-271.19	13.60
1580	2	0.43	0.14	-13.25	-1.28	-1.00	10.63	-0.22	-58.28	-62.61	-20.85	1594	4	0.13	0.79	-2.09	-1.36	-1.10	3.96	0.60	8.05	-266.82	5.82
1580	3	0.27	0.53	-15.41	-1.23	-3.02	4.34	0.49	-24.80	-17.43	-12.06	1595	1	0.09	0.21	-0.36	-0.92	-0.86	3.79	-1.83	3.19	-267.48	14.12
1580	4	0.00	0.48	-19.73	-0.91	-2.27	8.71	-2.11	-31.80	-2.47	3.24	1595	2	0.32	0.21	0.34	-0.73	-0.48	3.02	4.32	-0.89	-267.45	13.56
1581	1	0.06	0.16	-10.94	-1.19	-0.39	10.34	-0.59	-55.75	-95.21	-46.63	1595	3	0.32	0.79	0.29	-0.77	-0.36	2.72	4.00	3.05	-266.70	17.67
1581	2	0.39	0.18	-7.96	-1.07	-0.64	9.33	2.48	-40.18	-152.90	-65.84	1595	4	0.09	0.79	-0.31	-0.88	-0.69	3.02	-0.65	5.67	-268.74	16.38
1581	3	0.14	0.67	-9.70	-1.10	-2.33	2.69	-0.11	-45.55	-64.66	-54.87	1596	1	0.09	0.21	-1.53	0.11	-0.57	2.50	-4.30	-3.44	-256.10	-11.91
1581	4	-0.12	0.59	-13.09	-0.94	-2.20	3.43	-0.65	-31.79	-26.51	-26.27	1596	2	0.33	0.21	-0.86	0.23	-0.56	3.43	5.51	-1.06	-263.64	-12.44
1582	1	0.36	0.13	-1.68	-3.51	1.18	0.44	-5.07	-240.76	-4.80	-4.77	1596	3	0.33	0.79	-0.74	0.39	-0.37	3.18	3.20	0.74	-261.69	-17.55
1582	2	0.90	0.10	-1.48	-2.91	1.21	1.86	-4.19	-260.41	7.95	3.13	1596	4	0.09	0.79	-1.41	0.21	-0.38	2.79	-3.36	-1.47	-251.38	-15.75
1582	3	1.21	0.38	-1.49	-3.85	1.53	1.63	-4.29	-255.69	10.25	20.43	1597	1	0.09	0.21	1.79	0.45	-0.63	1.28	-5.18	-4.07	-249.19	9.30
1582	4	0.77	0.47	-1.75	-4.69	1.39	0.92	-4.42	-228.61	-4.33	18.26	1597	2	0.35	0.21	1.97	0.41	-0.59	0.88	4.92	-6.49	-235.34	7.54
1583	1	0.30	0.09	-1.08	-2.38	1.26	2.00	-3.66	-281.85	10.15	2.40	1597	3	0.35	0.79	1.88	0.54	-0.41	0.92	4.23	-5.63	-230.89	10.21
1583	2	0.85	0.08	-0.29	-1.53	1.27	2.80	-2.96	-317.20	-10.33	1.74	1597	4	0.09	0.79	1.68	0.38	-0.44	1.18	-3.42	-4.58	-243.34	14.16
1583	3	1.01	0.28	-0.21	-1.85	1.50	2.85	-2.19	-238.87	-21.21	22.93	1598	1	0.09	0.21	-1.39	-0.74	-0.95	-1.98	-3.56	-9.43	-223.66	-2.13
1583	4	0.54	0.33	-0.89	-2.90	1.46	2.27	-4.32	-291.53	1.61	22.74	1598	2	0.33	0.21	-1.83	-0.86	-0.58	-1.97	5.34	-6.31	-231.17	-3.94
1584	1	0.25	0.07	0.30	-0.93	1.25	2.19	-2.21	-350.86	-34.94	6.64	1598	3	0.33	0.79	-1.73	-0.89	-0.44	-1.46	4.31	-7.21	-223.50	-7.96
1584	2	0.80	0.06	0.70	-0.34	1.11	0.46	-1.24	-380.82	-58.17	14.87	1598	4	0.09	0.79	-1.25	-0.86	-0.68	-1.64	-1.92	-7.29	-215.15	-5.87
1584	3	0.83	0.24	0.55	-0.45	1.17	-0.15	-0.70	-428.96	-56.25	24.35	1599	1	0.23	0.21	0.77	0.86	-1.16	-1.61	-1.30	-8.85	-212.07	-3.52
1584	4	0.35	0.25	0.34	-1.06	1.42	1.68	-1.68	-386.19	-45.56	27.37	1599	2	0.86	0.21	-0.33	1.02	-1.12	1.27	0.30	-15.60	-193.97	-3.96
1585	1	0.27	0.16	-2.95	-5.03	2.99	5.17	-6.21	-208.99	5.34	-20.17	1599	3	0.86	0.79	-0.16	0.67	-1.30	-0.57	-0.34	-11.72	-191.06	-4.82
1585	2	0.66	0.13	-2.35	-3.21	2.74	6.36	-3.88	-255.60	2.80	-27.49	1599	4	0.23	0.79	0.73	0.95	-0.91	-1.74	-1.79	-9.56	-206.30	0.47
1585	3	0.89	0.48	-3.10	-2.19	2.61	-1.61	0.01	-248.15	-10.65	45.81	1600	1	0.30	0.17	-0.73	0.95	-1.30	-3.91	-2.94	-17.62	-180.23	-6.46
1585	4	0.57	0.60	-3.94	-4.34	3.87	0.84	-1.03	-154.40	-9.27	32.92	1600	2	1.10	0.05	-3.87	1.24	-1.12	0.75	9.08	-27.17	-150.21	-6.88
1586	1	0.24	0.10	-1.46	-2.62	2.44	5.46	-2.11	-296.05	-3.48	-0.66	1600	3	1.10	0.63	-1.32	1.33	-0.92	0.91	-0.74	-13.11	-171.44	5.57
1586	2	0.65	0.08	-0.76	-1.17	1.99	3.43	-1.30	-367.13	-32.71	0.57	1600	4	0.30	0.75	-1.15	0.61	-1.15	-1.90	1.22	-13.30	-180.46	-4.52
1586	3	0.78	0.31	-1.00	-0.44	1.17	-4.92	1.02	-457.42	-30.97	63.15	1601	1	0.18	0.21	-25.39	-5.25	2.49	4.25	-4.92	-77.44	-304.56	83.97
1586	4	0.44	0.38	-1.96	-1.59	1.96	-3.34	0.08	-316.41	-31.35	80.11	1601	2	0.67	0.21	-24.09	-4.31	1.91	3.10	2.04	-74.78	-258.06	57.90
1587	1	0.20	0.07	0.07	-0.86	1.59	1.73	-0.45	-529.56	-43.56	32.94	1601	3	0.67	0.79	-23.67	-4.66	2.99	3.31	1.50	-121.39	-260.56	19.00
1587	2	0.62	0.06	0.31	-0.19	1.16	-0.68	-0.15	-480.75	-46.99	6.23	1601	4	0.18	0.79	-24.86	-5.83	2.98	5.64	-4.15	-154.42	-245.84	40.96
1587	3	0.63	0.24	0.39	0.00	0.50	-6.75	0.23	-582.61	-18.19	4.53	1602	1	0.21	0.21	-28.58	-7.13	4.06	1.86	8.76	6.89	-541.34	45.26
1587	4	0.29	0.26	-0.18	-0.50	0.88	-5.99	0.94	-517.27	-26.82	80.30	1602	2	0.78	0.21	-26.68	-6.94	5.99	3.86	-15.23	-42.05	-504.38	95.92
1588	1	0.20	0.06	0.47	-0.30	0.91	-0.80	-1.03	-337.84	-52.02	17.79	1602	3	0.78	0.79	-25.65	-9.94	6.75	5.36	-17.72	-159.47	-432.78	85.64
1588	2	0.75	0.07	-0.26	-1.11	0.48	-2.96	-1.49	-345.99	-14.94	20.82	1602	4	0.21	0.79	-30.60	-11.44	4.75	11.35	9.19	-100.74	-672.66	201.98
1588	3	0.65	0.25	-0.31	-0.82	0.26	-3.22	-1.16	-370.24	-26.37	0.38	1603	1	0.21	0.34	1.74	7.71	-1.12	-2.50	14.61	-226.39	1.10	-29.64
1588	4	0.17	0.24	0.36	-0.25	0.69	-1.34	-0.20	-421.88	-51.04	5.00	1603	2	0.79	0.34	2.46	6.60	-1.47	-2.53	12.64	-223.56	-9.66	-24.40
1589	1	0.15	0.08	-0.94	-2.20	0.20	-3.58	-2.31	-314.67	11.71	19.09	1603	3	0.79	1.28	6.79	24.84	-1.25	25.84	22.62	-203.45	10.16	-12.25
1589	2	0.70	0.09	-1.81	-3.81	0.09	-2.81	-2.77	-293.93	32.94	8.96	1603	4	0.21	1.23	3.02	23.27	-1.05	-6.10	14.36	-244.13	0.85	-10.10
1589	3	0.46	0.33	-1.56	-3.85	-0.41	-3.96	-3.89	-276.47	28.67	-4.51	1604	1	0.21	0.29	-2.29	-13.70	-0.49	-0.36	14.61	-228.04	10.40	-21.46
1589	4	-0.01	0.28	-0.90	-2.03	-0.18	-4.69	-1.28	-320.65	4.22	2.78	1604	2	0.79	0.29	-2.21	-13.95	-0.04	-1.57	12.62	-239.00	11.53	-18.29
1590	1	0.10	0.10	-2.32	-4.91	0.08	-2.67	-4.21	-266.92	33.90	1.75	1604	3	0.79	1.09	0.99	-2.11	-0.27	-1.48	19.80	-225.61	7.01	-27.25
1590	2	0.64	0.13	-2.60	-6.00	0.23	-0.43	-4.45	-256.26	29.48	-1.37	1604	4	0.21	1.09	0.35	-2.29	-0.37	6.05	15.54	-240.77	7.26	-22.75
1590	3	0.23	0.47	-2.47	-6.71	-0.35	-2.23	-4.35	-216.53	29.29	-10.17	1605	1	0.21	0.32	-4.80	-25.03	-0.15	0.10	5.24	-244.56	15.56	-0.56
1590	4	-0.21	0.38	-2.22	-5.35	-0.54	-3.49	-3.93	-241.19	38.14	-5.97	1605	2	0.79	0.32	-4.80	-25.15	-0.12	-0.79	5.25	-248.70	15.87	-7.91
1591	1	0.16	0.06	0.32	-0.24	0.90	-1.64	0.19	-468.05	-45.75	17.08	1605	3	0.79	1.19	-3.60	-19.99	-0.04	0.58	6.94	-238.91	14.60	-13.29
1591	2	0.58	0.07	-0.37	-0.52	0.19	-3.29	0.06	-399.38	-28.63	-7.29	1605	4	0.21	1.19	-3.71	-19.98	-0.23	0.25	6.22	-240.67	15.00	-13.66
1591	3	0.49	0.26	-0.34	-0.28	-0.01	-4.53	-0.22	-466.67	-19.06	-64.35	1606	1	0.21	0.28	-4.69	-24.23	0.02	-0.16	-3.16	-244.99	15.94	-0.81
1591	4	0.14	0.24	0.34	0.00	0.50	-6.32	0.23	-568.42	-20.07	3.92	1606	2	0.79	0.28	-4.70	-24.30	0.01	-0.15	-3.13	-242.04	16.59	-0.75
1592	1	0.12	0.08	-1.18	-1.25	-0.56	-4.13	-0.37	-377.47	-16.76	25.63	1606	3	0.79	1.06	-5.06	-26.29	0.03	-0.25	-1.70	-241.13	16.40	-4.16
1592	2	0.53	0.10	-1.99	-3.20	-1.57	-6.56	-0.73	-257.41	19.75	24.82	1606	4	0.21	1.06	-5.04	-26.14	-0.01	0.35	-1.72	-245.70	16.24	-3.59
1592	3	0.32	0.38	-2.41	-1.50	-1.56	-1.35	-0.70	-243.02	-12.60	-48.28	1607	1	0.30	0.21	-0.84	0.59	-1.00	0.65	-1.85	-7.47	-183.88	-5.14
1592	4	-0.01	0.31	-1.17	-0.13	-0.38	-3.28	0.21	-389.99	-21.71	-41.74	1607	2	1.10	0.21	-0.46	0.22	-0.73	1.79	0.71	-2.14	-171.90	-3.67
1593	1	0.07	0.13	-2.75	-4.96	-2.24	-7.04	-3.03	-218.13	23.71	46.71	1607	3	1.10	0.79	-0.30	-0.25	-0.84	-0.17	1.82	1.36	-178.82	-7.20
1593	2	0.46	0.16	-3.38	-7.01	-2.78	-6.50	-5.82	-173.42	32.14	33.50	1607	4	0.30	0.79	-0.63	0.24	-1.05	-0.27	-1.90	-4.14	-181.79	-10.38
1593	3	0.16	0.60	-4.59	-5.30	-4.25	-2.35	-0.52	-98.61	16.86	0.88	1608	1	0.23	0.21	0.45	0.78	-0.99	-1.24	-2.36	-9.03	-200.64	3.02

1608	2	0.86	0.21	-0.23	0.78	-1.25	-2.04	1.91	-10.84	-188.94	-2.81
1608	3	0.86	0.79	-0.45	0.48	-1.23	-0.63	0.97	-10.24	-182.35	-6.09
1608	4	0.23	0.79	0.20	0.79	-1.01	-1.74	-2.68	-8.85	-193.06	8.28
1609	1	0.09	0.21	-1.11	-0.93	-0.60	-1.71	-2.09	-7.07	-210.43	-6.60
1609	2	0.33	0.21	-1.61	-1.01	-0.34	-2.08	3.62	-6.20	-217.18	-10.92
1609	3	0.33	0.79	-1.11	-1.07	-0.36	-2.44	3.43	-2.56	-208.24	-15.23
1609	4	0.09	0.79	-0.65	-0.99	-0.53	-1.67	-2.81	-7.90	-202.70	-9.35
1610	1	0.09	0.21	1.62	0.64	-0.31	0.56	-1.76	-3.54	-237.63	17.05
1610	2	0.35	0.21	1.70	0.56	-0.26	0.75	3.27	-4.67	-224.85	13.61
1610	3	0.35	0.79	1.36	1.15	-0.19	0.11	3.30	-5.42	-216.75	16.26
1610	4	0.09	0.79	1.42	1.03	-0.23	-0.71	-1.11	-2.86	-229.44	20.31
1611	1	0.09	0.21	-1.38	0.00	-0.25	2.44	-3.19	-1.63	-246.86	-19.76
1611	2	0.33	0.21	-0.89	0.05	-0.23	2.51	1.23	-0.27	-259.48	-22.05
1611	3	0.33	0.79	-1.29	-0.54	-0.13	0.61	0.09	-3.09	-255.96	-24.22
1611	4	0.09	0.79	-1.43	-0.67	-0.14	0.84	-2.49	-2.37	-240.07	-22.55
1612	1	0.09	0.21	-0.08	-0.76	-0.59	2.58	0.41	4.43	-274.58	21.80
1612	2	0.32	0.21	0.48	-0.57	-0.20	2.40	3.96	3.79	-266.51	22.95
1612	3	0.32	0.79	1.06	0.16	-0.26	2.17	4.41	-3.20	-266.49	24.79
1612	4	0.09	0.79	0.53	0.07	-0.54	2.50	1.15	-4.58	-279.48	23.77
1613	1	0.13	0.21	-1.71	-1.06	-1.12	3.39	1.75	11.69	-280.72	7.21
1613	2	0.47	0.21	-0.60	-0.79	-0.73	2.95	2.74	6.95	-279.78	18.63
1613	3	0.47	0.79	-0.03	-0.13	-0.72	2.63	3.25	-4.21	-291.56	22.02
1613	4	0.13	0.79	-1.03	-0.28	-1.13	3.02	2.07	-5.02	-307.40	9.25
1614	1	0.18	0.21	-23.81	-5.94	3.29	4.67	-0.96	-159.92	-234.37	-0.24
1614	2	0.67	0.21	-22.35	-4.54	3.95	3.49	5.56	-109.14	-202.96	0.42
1614	3	0.67	0.79	-19.56	-4.76	4.72	2.99	5.04	-83.17	-259.45	-28.54
1614	4	0.18	0.79	-21.81	-5.49	3.64	5.70	-1.23	-114.15	-280.55	-66.02
1615	1	0.21	0.21	-31.75	-13.64	5.50	19.52	21.52	-410.01	-623.98	-19.09
1615	2	0.78	0.21	-25.94	-10.74	7.84	8.06	-12.67	-279.46	-394.24	3.41
1615	3	0.78	0.79	-24.82	-8.58	8.20	7.06	-5.76	-153.40	-420.96	-102.80
1615	4	0.21	0.79	-28.73	-9.90	5.49	9.04	31.98	-177.79	-497.79	-119.79
1616	1	0.21	0.34	3.18	6.63	-0.40	0.56	18.61	-231.10	2.03	-18.65
1616	2	0.79	0.34	2.56	7.36	0.46	0.11	10.30	-224.00	11.45	-16.66
1616	3	0.79	1.28	5.34	23.49	0.16	-9.15	18.86	-232.83	8.78	-53.45
1616	4	0.21	1.28	10.17	25.45	-0.18	-9.30	31.01	-276.53	19.04	-38.49
1617	1	0.21	0.29	-2.37	-14.15	-0.22	-0.94	13.21	-231.60	10.93	-15.35
1617	2	0.79	0.29	-2.51	-14.07	-0.01	-0.59	14.51	-229.12	12.70	-12.47
1617	3	0.79	1.09	0.24	-2.89	-0.02	-3.05	13.02	-233.14	9.56	-17.41
1617	4	0.21	1.09	-0.05	-2.46	-0.33	2.17	14.20	-227.24	6.69	-16.64
1618	1	0.21	0.32	-4.82	-25.17	-0.05	-0.06	5.07	-227.92	16.05	-7.28
1618	2	0.79	0.32	-4.91	-25.20	0.00	-0.82	4.88	-234.74	16.50	-6.42
1618	3	0.79	1.19	-3.96	-20.20	-0.05	0.22	6.74	-231.12	14.68	-10.76
1618	4	0.21	1.19	-3.65	-20.93	-0.03	-0.13	7.41	-235.91	14.19	-12.82
1619	1	0.21	0.28	-4.72	-24.34	0.01	-0.22	-3.13	-239.70	16.92	0.64
1619	2	0.79	0.28	-4.78	-24.39	0.05	-0.14	-3.10	-236.76	17.46	0.45
1619	3	0.79	1.06	-5.12	-26.29	0.02	-0.51	1.66	-236.24	17.10	-3.40
1619	4	0.21	1.06	-5.10	-26.25	0.03	0.50	-1.77	-236.95	16.58	-3.68
1620	1	0.30	0.21	-0.56	-0.04	-1.50	-0.34	-2.79	-9.27	-175.76	-12.92
1620	2	1.10	0.21	-0.21	-0.45	-1.20	0.31	2.37	-1.26	-187.34	-9.58
1620	3	1.10	0.79	-0.21	-0.73	-1.41	0.33	3.37	-3.14	-205.26	-8.51
1620	4	0.30	0.79	-0.63	-0.36	-1.80	-0.26	-3.20	-0.25	-168.57	-29.98
1621	1	0.23	0.21	-0.07	0.69	-1.22	-1.75	-3.14	-10.66	-194.33	8.04
1621	2	0.86	0.21	-0.59	0.28	-1.32	-0.64	2.02	-11.81	-177.62	-3.55
1621	3	0.86	0.79	-0.68	-0.07	-1.56	-0.50	1.84	-21.37	162.63	2.91
1621	4	0.23	0.79	-0.47	0.30	-1.52	-1.20	-3.03	-18.87	-165.49	4.60
1622	1	0.09	0.21	-0.27	-1.04	-0.68	-1.54	-1.95	-11.53	-189.67	-13.31
1622	2	0.33	0.21	-0.64	-1.21	-0.98	-2.12	4.80	-5.86	-199.57	-19.89
1622	3	0.33	0.79	0.13	-0.64	-0.62	-1.67	7.32	-5.80	-209.30	-36.17
1622	4	0.09	0.79	0.24	-0.53	-1.05	-0.68	-1.48	-4.93	-169.89	-45.03
1623	1	0.09	0.21	1.23	1.43	-0.26	-1.89	-1.95	-1.48	-227.10	21.41
1623	2	0.35	0.21	0.88	1.24	-0.23	-1.42	2.32	-1.99	-209.71	22.67
1623	3	0.35	0.79	0.16	1.00	-0.51	-2.84	3.33	1.58	-226.17	25.39
1623	4	0.09	0.79	0.93	1.06	-0.51	-3.30	-5.59	-1.11	-237.54	16.92
1624	1	0.09	0.21	-1.48	-1.13	-0.18	-1.04	-2.77	-4.46	-238.64	-20.14
1624	2	0.33	0.21	-1.70	-1.26	-0.16	-1.55	0.71	-7.41	-254.36	-20.00
1624	3	0.33	0.79	-2.00	-1.31	-0.40	-3.38	4.47	-12.07	-261.49	-5.56
1624	4	0.09	0.79	-1.34	-1.27	-0.42	-3.29	-2.90	-4.45	-246.21	-12.48
1625	1	0.09	0.21	1.06	0.60	-0.59	1.98	0.71	-16.24	-284.26	18.27
1625	2	0.32	0.21	1.61	0.73	-0.27	2.42	4.29	-11.47	-265.91	19.68
1625	3	0.32	0.79	2.04	1.20	-0.41	2.15	4.90	-18.75	-272.23	2.37
1625	4	0.09	0.79	1.43	1.10	-0.80	2.14	-1.39	-28.55	-289.23	-1.01
1626	1	0.13	0.21	-0.49	0.37	-1.17	2.46	1.76	-30.47	-327.09	6.32
1626	2	0.47	0.21	0.47	0.57	-0.76	3.06	3.16	-23.06	-297.96	15.85
1626	3	0.47	0.79	0.78	0.94	-0.84	2.91	2.09	-38.07	-306.73	-5.18
1626	4	0.13	0.79	-0.07	0.79	-1.13	2.19	0.25	-51.96	-348.36	-8.45
1627	1	0.18	0.21	-20.10	-4.86	3.39	4.35	-1.10	-67.99	-293.07	-81.13
1627	2	0.67	0.21	-17.07	-5.27	4.56	6.29	5.85	-57.44	-296.18	-46.58
1627	3	0.67	0.79	-14.02	-5.88	2.56	6.55	4.00	-51.33	-332.70	-58.55
1627	4	0.18	0.79	-18.74	-4.51	2.20	4.84	0.47	-38.01	-304.67	-69.31
1628	1	0.21	0.21	-25.78	-5.02	5.39	-2.14	25.79	-14.09	-433.34	-56.89
1628	2	0.78	0.21	-22.65	-6.46	7.30	4.87	-5.60	-47.80	-486.46	-115.72
1628	3	0.78	0.79	-21.54	-4.20	5.40	4.41	-9.11	-7.89	-483.87	-69.57
1628	4	0.21	0.79	-25.47	-3.44	4.15	0.67	13.92	22.04	-491.80	-38.06
1629	1	0.21	0.34	1.33	7.30	0.26	-3.50	16.22	-227.56	14.07	-17.32
1629	2	0.79	0.34	0.70	7.09	-0.12	-2.21	14.90	-220.88	17.97	-29.56
1629	3	0.79	1.28	3.02	21.49	-0.37	1.34	14.12	-187.74	10.82	-31.28
1629	4	0.21	1.28	3.65	22.31	-0.27	-2.59	10.35	-202.12	7.57	-47.09
1630	1	0.21	0.29	-2.69	-13.97	0.06	0.04	13.34	-226.72	14.50	-11.58
1630	2	0.79	0.29	-2.98	-14.17	-0.05	-1.28	13.03	-226.16	16.95	-11.57
1630	3	0.79	1.09	-0.95	-2.92	0.01	1.30	15.35	-219.68	16.66	-14.52
1630	4	0.21	1.09	-0.45	-3.00	0.11	0.29	16.08	-222.94	14.26	-16.81
1631	1	0.21	0.32	-4.99	-25.24	-0.01	0.32	5.13	-232.76	17.29	-5.27
1631	2	0.79	0.32	-5.09	-25.28	-0.01	-0.52	5.23	-230.27	18.01	-5.39
1631	3	0.79	1.19	-4.03	-20.14	0.05	-0.74	6.50	-227.68	17.32	-9.51
1631	4	0.21	1.19	-3.91	-20.20	0.00	-0.24	6.42	-229.96	15.59	-9.59
1632	1	0.21	0.28	-4.83	-24.42	0.00	-0.18	-3.24	-234.85	17.65	0.49
1632	2	0.79	0.28	-4.92	-24.46	0.04	-0.13	-2.15	-232.37	19.52	0.67
1632	3	0.79	1.06	-5.31	-26.38	0.04	-0.43	-1.65	-221.46	18.39	-2.74
1632	4	0.21	1.06	-5.22	-26.33	0.02	0.06	-1.11	-233.99	17.69	-3.10
1633	1	0.30	0.21	-0.74	-0.54	-2.06	0.03	-3.54	8.23	-214.42	-28.94
1633	2	1.10	0.21	-0.22	-0.87	-1.66	0.07	4.01	10.09	-209.79	-3.02
1633	3	1.10	0.79	-0.18	-0.72	-1.81	0.70	5.04	8.11	-225.80	2.84
1633	4	0.30	0.79	-0.87	-0.48	-2.20	1.21	-2.43	13.62	-212.46	-20.00
1634	1	0.23	0.21	-0.63	-0.24	-1.70	-0.42	-3.46	-32.85	111.69	42.28
1634	2	0.86	0.21	-0.80	-0.37	-1.62	-0.27	2.65	-31.50	-90.62	-30.49
1634	3	0.86	0.79	-1.02	-0.39	-1.70	-1.86	2.56	-0.99	-76.85	-111.32
1634	4	0.23	0.79	-0.48	-0.22	-1.81	-0.21	-1.97	1.31	-45.66	117.69
1635	1	0.09	0.21	0.62	0.06	-1.34	-0.80	-3.64	10.47	-244.95	-57.92
1635	2	0.33	0.21	0.55	0.06	-0.80	-0.59	9.16	17.57	-236.96	-28.74
1635	3	0.33	0.79	0.16	0.23	-1.61	-0.73	8.57	16.37	-273.78	-22.67
1635	4	0.09	0.79	0.45	0.27	-1.50	-1.25	-6.12	23.97	224.41	-29.70
1636	1	0.09	0.21	0.64	0.39	-0.85	-4.59	-8.60	2.60	250.21	16.37
1636	2	0.35	0.21	-0.18	0.07	-0.84	-4.45	5.09	7.62	-230.34	25.21
1636	3	0.35	0.79	0.15	-0.17	-1.36	-3.24	11.97	1.98	-250.20	11.16
1636	4	0.09	0.79	0.52	-0.02	-1.37	-2.93	-10.72	3.10	-256.19	-0.04
1637	1	0.09	0.21	-1.20	-0.77	-0.82	-3.49	-6.25	-8.12	-266.23	-0.80

1637	2	0.33	0.21	-1.86	-1.02	-0.78	-3.98	8.38	-11.44	-274.12	8.69
1637	3	0.33	0.79	-0.90	-0.22	-1.21	-1.24	11.72	-6.18	-296.33	19.88
1637	4	0.09	0.79	-0.87	-0.27	-1.24	-0.60	-9.23	-4.19	-288.81	9.35
1638	1	0.09	0.21	1.25	0.84	-1.02	1.93	-3.51	-26.82	-296.55	-20.79
1638	2	0.32	0.21	1.86	0.96	-0.62	2.37	5.34	-17.50	-282.09	-10.55
1638	3	0.32	0.79	0.79	0.30	-0.80	2.41	6.28	-8.27	-301.95	-26.94
1638	4	0.09	0.79	0.27	0.22	-1.26	1.71	-5.63	-10.05	-310.45	-33.28
1639	1	0.13	0.21	-0.15	0.60	-1.05	1.68	-1.93	-46.34	-349.11	-29.57
1639	2	0.47	0.21	0.64	0.66	-0.91	2.95	0.69	-34.42	-312.22	-22.72
1639	3	0.47	0.79	-0.29	0.05	-0.94	2.73	-0.45	-12.77	-316.38	-36.33
1639	4	0.13	0.79	-0.94	-0.14	-0.81	1.68	-3.53	-13.59	-321.59	-32.09
1640	1	0.18	0.21	-18.59	-4.37	1.13	4.32	-4.04	-35.23	-311.49	-46.88
1640	2	0.67	0.21	-13.83	-5.67	0.16	7.22	-1.17	-55.01	-337.97	-46.71
1640	3	0.67	0.79	-16.60	-4.51	-1.92	6.94	-3.46	-39.16	-320.86	-27.34
1640	4	0.18	0.79	-19.75	-4.15	0.12	3.79	-2.61	-20.72	-301.38	-14.95
1641	1	0.21	0.21	-25.97	-3.89	2.57	5.14	9.75	10.20	-392.79	-24.37
1641	2	0.78	0.21	-21.84	-3.97	3.87	5.79	-5.16	-12.19	-460.29	-30.90
1641	3	0.78	0.79	-22.51	-4.16	2.25	5.92	-5.62	-5.11	-452.95	-9.89
1641	4	0.21	0.79	-26.15	-4.01	1.85	4.71	6.01	12.29	-394.18	-11.47
1642	1	0.21	0.34	0.68	6.94	-0.39	0.09	15.69	-213.23	19.52	-21.22
1642	2	0.79	0.34	0.70	6.61	-0.47	-1.03	15.49	-210.22	17.66	-19.24
1642	3	0.79	1.28	3.72	21.60	-0.40	1.01	16.41	-188.94	11.70	-19.03
1642	4	0.21	1.28	3.50	21.40	-0.46	1.26	17.04	-188.30	11.05	-24.85
1643	1	0.21	0.29	-3.11	-14.28	-0.13	-0.47	13.08	-223.55	18.27	-11.63
1643	2	0.79	0.29	-3.18	-14.27	-0.17	-0.44	13.25	-220.94	18.66	-11.14
1643	3	0.79	1.09	-1.05	-3.02	-0.19	0.74	14.63	-218.92	18.49	-15.20
1643	4	0.21	1.09	-1.05	-2.94	-0.03	-0.95	14.01	-220.41	17.39	-14.31
1644	1	0.21	0.32	-5.16	-25.30	-0.01	-0.18	5.06	-228.45	18.54	-5.06
1644	2	0.79	0.32	-5.25	-25.34	-0.07	-0.64	5.00	-226.14	19.16	-4.77
1644	3	0.79	1.19	-4.34	-20.29	-0.08	-0.63	6.51	-225.95	18.79	-8.40
1644	4	0.21	1.19	-4.22	-20.17	0.00	0.71	6.70	-226.05	18.20	-8.53
1645	1	0.21	0.28	-4.96	-24.96	0.05	-0.21	-3.11	-230.62	18.99	0.45
1645	2	0.79	0.28	-5.05	-24.53	0.03	-0.19	-2.17	-228.92	19.48	0.95
1645	3	0.79	1.06	-5.46	-26.45	0.02	-0.56	-1.77	-227.44	19.39	-2.50
1645	4	0.21	1.06	-5.37	-26.41	0.04	0.27	-1.91	-229.76	18.85	-2.66
1646	1	0.30	0.21	-1.36	-0.27	-2.50	-0.50	-5.46	-15.47	-275.32	-21.32
1646	2	1.10	0.21	-0.64	-0.62	-2.59	-0.89	6.49	-7.65	-214.02	2.92
1646	3	1.10	0.79	-1.29	0.07	-2.64	8.83	9.49	-11.37	-232.05	-3.73
1646	4	0.30	0.79	-2.01	0.06	-2.61	-4.62	-7.04	-14.36	-272.19	-43.62
1647	1	0.23	0.21	-0.19	0.21	-1.92	-1.46	-2.14	-5.56	-470.23	117.88
1647	2	0.86	0.21	-0.87	0.15	-1.56	-0.98	6.14	-3.57	-442.56	-111.28
1647	3	0.86	0.79	-0.84	0.38	-1.56	1.14	6.65	23.69	-421.07	-30.39
1647	4	0.23	0.79	-0.13	0.28	-1.87	-1.36	-4.47	25.75	-432.42	44.22
1648	1	0.09	0.21	-0.29	-0.41	-1.61	-1.26	-6.06	-28.60	-335.44	-38.85
1648	2	0.33	0.21	-0.68	-0.53	-1.80	-2.48	8.30	-20.56	-298.40	-20.89
1648	3	0.33	0.79	-1.18	-0.34	-0.60	-2.93	9.53	-22.44	-336.33	-37.84
1648	4	0.09	0.79	-0.57	-0.24	-1.32	-2.69	-1.98	-16.10	-316.75	-59.44
1649	1	0.09	0.21	0.71	0.31	-1.42	1.27	-10.57	-8.75	-306.25	-1.02
1649	2	0.35	0.21	0.74	0.39	-1.30	1.92	12.12	-7.23	-290.67	11.24
1649	3	0.35	0.79	1.20	0.12	-1.01	3.78	6.18	-13.57	-342.02	26.72
1649	4	0.09	0.79	0.60	-0.07	-1.03	3.11	-4.80	-9.25	-337.11	10.10
1650	1	0.09	0.21	-0.37	0.11	-1.28	0.02	-0.61	-2.23	-311.78	9.25
1650	2	0.33	0.21	0.03	0.15	-1.23	2.60	11.89	-0.77	-314.53	19.76
1650	3	0.33	0.79	1.14	0.93	-0.91	5.42	9.57	2.82	-325.41	10.24
1650	4	0.09	0.79	0.05	0.64	-0.98	5.31	-6.85	-1.56	-334.35	0.45
1651	1	0.09	0.21	-0.93	-0.57	-1.27	2.72	-5.64	4.54	-316.71	-21.57
1651	2	0.32	0.21	-0.43	-0.45	-0.93	1.91	6.04	2.10	-315.79	-26.02
1651	3	0.32	0.79	-1.70	-1.16	-0.66	2.57	5.36	9.52	-333.04	-15.41
1651	4	0.09	0.79	-2.24	-1.30	-1.02	2.67	-9.42	15.07	-325.58	-19.35
1652	1	0.13	0.21	-1.99	-0.89	-0.68	2.47	-3.84	12.84	-316.79	-26.[illegible]
1652	2	0.47	0.21	-1.32	-0.64	-0.91	1.76	-0.90	7.91	-318.69	-34.[illegible]
1652	3	0.47	0.79	-2.63	-1.58	-0.76	2.43	-0.48	22.02	-317.40	-20.42
1652	4	0.13	0.79	-3.45	-1.81	-0.54	2.82	-2.86	30.28	-296.94	-15.54
1653	1	0.18	0.21	-21.45	-4.27	-0.11	5.77	-3.00	-1.06	-296.43	-9.10
1653	2	0.67	0.21	-19.22	-3.70	-2.16	2.79	-3.36	-13.95	-308.13	-14.29
1653	3	0.67	0.79	-22.32	-3.68	-1.57	2.62	-0.81	20.67	-286.86	-5.33
1653	4	0.18	0.79	-23.36	-4.46	-0.04	3.56	-3.80	22.28	-286.54	5.50
1654	1	0.21	0.21	-26.65	-4.42	1.38	4.21	4.62	16.21	-407.32	-2.00
1654	2	0.79	0.21	-23.41	-4.09	1.69	4.35	-5.43	6.11	-448.82	2.29
1654	3	0.78	0.79	-24.81	-4.37	1.54	4.24	-3.27	21.75	-447.23	10.27
1654	4	0.21	0.79	-27.21	-4.94	1.38	4.40	3.56	21.52	-422.76	2.08
1655	1	0.21	0.34	0.32	6.49	-0.50	-0.24	15.08	-207.90	[illegible]	-17.86
1655	2	0.79	0.34	1.01	6.40	-0.50	-0.06	15.95	-207.09	[illegible]	-16.37
1655	3	0.79	1.28	4.25	22.06	-0.33	1.47	17.83	-199.07	10.[illegible]	-11.32
1655	4	0.21	1.28	3.83	21.78	-0.26	1.64	17.04	-191.63	[illegible]	-15.27
1656	1	0.21	0.29	-3.19	-14.31	-0.20	-0.11	13.50	-219.24	[illegible]	-10.81
1656	2	0.79	0.29	-3.18	-14.41	-0.22	-0.62	13.23	-216.63	[illegible]	-10.24
1656	3	0.79	1.09	-0.95	-3.21	-0.30	0.29	14.36	-210.96	[illegible]	-13.47
1656	4	0.21	1.09	-1.04	-3.11	-0.28	0.13	14.71	-219.61	[illegible]	-14.99
1657	1	0.21	0.32	-5.32	-25.39	-0.05	0.15	5.05	-224.61	[illegible]	-9.50
1657	2	0.79	0.32	-5.37	-25.46	-0.08	-0.62	5.01	-222.42	[illegible]	-9.21
1657	3	0.79	1.19	-4.37	-20.43	-0.12	-0.38	6.61	-219.41	[illegible]	-7.61
1657	4	0.21	1.19	-4.34	-20.35	-0.11	0.40	6.40	-221.53	[illegible]	-6.28
1658	1	0.21	0.28	-5.11	-24.56	0.03	-0.16	-3.23	-206.58	[illegible]	0.42
1658	2	0.79	0.28	-5.17	-24.60	0.02	-0.15	-3.19	-224.94	[illegible]	0.47
1658	3	0.79	1.06	-5.55	-26.53	0.00	-0.35	-1.81	-222.76	[illegible]	-0.16
1658	4	0.21	1.06	-5.51	-26.40	0.03	0.09	-1.75	-225.09	[illegible]	-2.28
1659	1	0.30	0.25	-2.06	0.50	-2.32	1.30	-1.76	-18.65	[illegible]	-31.36
1659	2	1.10	0.37	-2.33	1.71	-2.37	-1.24	7.29	-19.01	[illegible]	-23.12
1659	3	1.10	0.95	-5.90	2.32	-1.95	-7.69	-10.[illegible]	-43.68	-236.21	-6.35
1659	4	0.30	0.83	-1.62	0.97	-1.11	2.53	-4.[illegible]	-12.47	-[illegible]	-7.27
1660	1	0.23	0.21	-0.39	-0.27	-1.72	-2.56	-4.17	9.83	[illegible]	-1.92
1660	2	0.86	0.21	-1.35	-0.49	-1.49	-1.36	-1.04	9.65	-360.25	8.77
1660	3	0.86	0.79	-1.87	-0.13	-1.40	-1.20	7.93	-6.68	-327.40	-1.14
1660	4	0.23	0.79	-0.61	-0.53	-1.27	-1.99	-2.70	-3.15	-354.14	15.43
1661	1	0.09	0.21	-0.56	0.35	-1.13	-1.17	-3.90	-3.35	-391.53	-49.41
1661	2	0.33	0.21	-1.13	0.31	-0.75	-1.10	7.98	-1.42	-365.49	-39.20
1661	3	0.33	0.79	-0.73	0.85	-0.52	-0.75	5.61	-3.97	-378.45	-26.49
1661	4	0.09	0.79	-0.39	0.92	-0.85	-0.68	-0.81	-0.02	-373.94	-22.00
1662	1	0.09	0.21	0.29	-0.90	-0.75	2.72	-7.82	-5.69	-359.21	16.56
1662	2	0.35	0.21	1.02	-0.82	-0.75	2.85	4.56	-8.62	-358.40	27.56
1662	3	0.35	0.79	0.60	-1.40	-0.47	2.82	2.[illegible]	-7.53	-379.90	27.54
1662	4	0.09	0.79	-0.09	-1.60	-0.42	2.99	-4.[illegible]	-6.21	-376.87	23.21
1663	1	0.09	0.21	0.32	1.29	-0.69	5.95	-3.81	-2.44	-357.78	-9.91
1663	2	0.33	0.21	1.60	1.46	-0.61	5.56	7.01	3.64	-359.07	-1.05
1663	3	0.33	0.79	1.97	2.12	-0.36	5.59	3.92	3.14	-364.83	-18.91
1663	4	0.09	0.79	0.72	1.83	-0.39	5.46	-2.77	-1.21	-372.63	-19.04
1664	1	0.09	0.21	-2.89	-1.80	-0.77	3.10	-3.41	16.55	-328.91	-7.40
1664	2	0.32	0.21	-2.31	-1.65	-0.47	2.23	4.22	9.90	-342.90	-3.78
1664	3	0.32	0.79	-2.60	-1.92	-0.24	3.21	2.[illegible]	9.29	-354.57	11.82
1664	4	0.09	0.79	-3.35	-2.08	-0.59	3.23	-1.[illegible]	15.07	-330.56	0.42
1665	1	0.13	0.21	-4.30	-2.23	-0.47	3.48	-1.[illegible]	29.49	-[illegible]	-4.38
1665	2	0.47	0.21	-3.39	-1.96	-0.[illegible]	2.93	0.[illegible]	21.44	-319.72	-8.10
1665	3	0.47	0.79	-3.90	-2.36	-0.4[illegible]	2.72	0.[illegible]	23.65	-340.12	3.37
1665	4	0.13	0.79	-4.92	-2.42	-0.49	3.13	-1.[illegible]	22.[illegible]	-[illegible]	1.48
1666	1	0.18	0.21	-29.40	-4.37	0.20	3.28	-1.[illegible]	24.[illegible]	[illegible]	3.28

1666	2	0.67	0.21	-23.78	-3.65	-0.77	2.24	-0.62	38.15	-276.10	-4.58
1666	3	0.67	0.79	-24.49	-3.67	0.29	2.41	-1.68	52.61	-267.83	-4.19
1666	4	0.18	0.79	-25.23	-4.72	0.74	3.43	-2.24	47.41	-277.64	-3.42
1667	1	0.21	0.21	-27.63	-5.45	1.43	4.75	4.14	22.77	-438.27	-0.19
1667	2	0.78	0.21	-25.62	-4.74	1.80	3.83	-5.56	30.50	-443.70	7.48
1667	3	0.78	0.79	-26.10	-4.99	2.39	3.41	-3.86	37.60	-444.77	-3.44
1667	4	0.21	0.79	-27.91	-5.84	1.72	4.77	6.17	25.15	-448.21	-7.67
1668	1	0.21	0.34	1.17	6.40	-0.45	-0.46	15.96	-205.16	12.53	-14.87
1668	2	0.79	0.34	1.26	6.33	-0.36	-0.06	16.17	-204.38	10.69	-12.33
1668	3	0.79	1.28	4.63	22.38	-0.29	0.93	18.38	-208.07	9.82	-12.05
1668	4	0.21	1.28	4.42	22.23	-0.31	1.16	18.32	-203.66	10.33	-10.94
1669	1	0.21	0.29	-3.17	-14.49	-0.23	0.01	13.48	-214.63	17.22	-9.83
1669	2	0.79	0.29	-3.16	-14.56	-0.19	-0.59	13.43	-212.61	16.60	-7.81
1669	3	0.79	1.09	-0.82	-3.35	-0.21	-0.10	14.92	-207.98	13.95	-10.22
1669	4	0.21	1.09	-0.87	-3.28	-0.28	0.55	14.77	-210.72	14.70	-12.22
1670	1	0.21	0.32	-5.40	-25.50	-0.07	0.17	5.01	-220.88	19.59	-3.92
1670	2	0.79	0.32	-5.44	-25.56	-0.06	-0.59	5.01	-219.10	19.62	-3.26
1670	3	0.79	1.19	-4.41	-20.55	-0.10	-0.25	6.58	-215.82	18.16	-5.84
1670	4	0.21	1.19	-4.39	-20.48	-0.12	0.27	6.54	-217.62	18.39	-6.91
1671	1	0.21	0.28	-5.21	-24.64	0.02	-0.15	-3.14	-223.61	20.25	0.42
1671	2	0.79	0.28	-5.26	-24.68	0.01	-0.15	-3.18	-222.01	20.44	0.45
1671	3	0.79	1.06	-5.65	-26.62	-0.01	-0.35	-1.80	-220.75	20.17	-1.62
1671	4	0.21	1.06	-5.60	-26.57	-0.01	0.18	-1.81	-222.47	20.02	-1.94
1672	1	0.36	0.08	-1.69	-0.08	0.04	-3.13	0.96	-23.80	28.60	-20.40
1672	2	1.35	0.08	-0.44	0.45	-0.33	2.41	-2.70	-21.36	-40.08	15.29
1672	3	1.35	0.32	-1.69	-0.72	-0.55	-0.73	-2.25	-20.45	-33.67	-15.88
1672	4	0.36	0.32	-0.91	0.11	0.09	2.41	1.97	-17.73	28.52	19.78
1673	1	0.32	0.08	-0.76	0.00	0.00	-2.75	0.12	-26.97	14.12	-14.87
1673	2	1.19	0.08	-0.81	-0.17	-0.26	0.36	-1.27	-25.20	-22.98	21.78
1673	3	1.19	0.32	-1.42	-0.04	-0.25	-0.59	-0.99	-16.21	-24.79	-22.29
1673	4	0.32	0.32	-0.35	0.08	-0.02	0.41	0.95	-14.30	14.20	14.40
1674	1	0.28	0.08	-0.25	0.03	-0.13	-1.00	0.22	-27.87	-10.33	-13.15
1674	2	1.06	0.08	-1.18	-0.06	-0.04	-2.70	0.10	-28.50	2.34	13.05
1674	3	1.06	0.32	-1.25	-0.09	-0.02	-1.11	-0.36	-12.77	2.20	-12.88
1674	4	0.28	0.32	0.05	0.15	-0.11	-0.91	0.48	-13.43	-9.82	13.37
1675	1	0.36	0.08	-1.11	-0.18	-0.01	-10.43	0.99	-83.94	12.10	-10.11
1675	2	1.35	0.08	-7.89	1.00	1.18	-5.63	4.78	-80.99	-20.76	17.08
1675	3	1.35	0.32	-8.99	-0.03	-1.87	-8.78	-9.08	-92.94	-16.04	-17.78
1675	4	0.36	0.32	-0.43	-0.02	0.15	-6.22	1.61	-89.71	12.02	9.36
1676	1	0.32	0.08	8.01	0.08	-0.01	-6.83	0.20	-89.37	6.66	-7.58
1676	2	1.19	0.08	4.00	-0.33	-0.57	-4.19	-2.92	-86.37	-9.93	7.19
1676	3	1.19	0.32	3.46	-0.22	0.17	-5.02	0.99	-87.87	-11.28	-8.00
1676	4	0.32	0.32	8.35	0.14	-0.01	-4.42	0.88	-84.73	6.72	6.77
1677	1	0.28	0.08	-10.76	-0.02	0.02	-2.39	-0.37	-91.05	-4.47	-7.33
1677	2	1.06	0.08	-12.75	-0.04	-0.03	-3.80	0.04	-92.15	0.19	6.55
1677	3	1.06	0.32	-12.80	-0.07	-0.04	-2.60	-0.56	-82.23	0.08	-6.25
1677	4	0.28	0.32	-10.51	0.08	-0.20	-2.18	1.19	-83.37	-4.06	7.69
1678	1	0.36	0.08	-0.47	-0.18	-0.11	-14.64	0.50	-122.22	19.84	-16.62
1678	2	1.35	0.08	-12.80	1.04	2.27	-11.39	9.35	-117.85	-27.43	29.10
1678	3	1.35	0.32	-13.51	0.38	-2.64	-13.51	-10.52	-103.46	-33.75	-30.13
1678	4	0.36	0.32	-0.05	-0.08	0.23	-12.57	1.68	-138.81	20.01	15.54
1679	1	0.32	0.08	14.09	0.16	-0.06	-9.27	0.17	-130.06	11.23	-12.39
1679	2	1.19	0.08	7.28	-0.49	-0.65	-7.41	-3.92	-125.82	-18.50	11.72
1679	3	1.19	0.32	6.95	-0.41	0.43	-7.81	2.07	-136.21	-16.70	-12.86
1679	4	0.32	0.32	14.28	0.19	0.04	-7.99	1.22	-131.85	11.21	11.25
1680	1	0.28	0.08	-17.93	0.00	0.17	-3.35	-0.48	-132.64	-6.97	-12.04
1680	2	1.06	0.08	-20.76	-0.06	-0.04	-4.53	-0.13	-138.89	0.40	10.72
1680	3	1.06	0.32	-20.75	-0.05	0.00	-3.79	-1.07	-127.49	0.50	-10.08

1680	4	0.28	0.32	-17.81	0.07	-0.28	-3.15	1.84	-129.76	-7.45	12.74
1681	1	0.17	0.12	28.08	-0.62	0.18	-5.68	1.19	-12.83	6.93	-44.27
1681	2	0.62	0.12	23.35	0.73	0.27	-7.14	-0.41	-12.60	-18.84	-40.4
1681	3	0.53	0.45	24.64	0.59	1.67	-7.40	0.07	-1.34	-12.65	-40.3
1681	4	0.14	0.44	28.72	-0.35	1.28	-5.76	3.90	5.68	8.87	-38.00
1682	1	0.12	0.12	19.36	1.63	0.23	-7.96	0.44	-8.01	-59.49	-24.39
1682	2	0.58	0.13	14.42	2.70	0.12	-6.83	-0.87	8.81	-141.35	-24.90
1682	3	0.37	0.50	16.43	2.23	1.78	-5.78	-2.62	1.99	-106.73	-41.15
1682	4	-0.02	0.47	20.93	1.32	1.81	-7.93	1.26	-3.21	-43.29	-39.69
1683	1	0.08	0.14	11.43	3.08	-0.01	-6.55	0.42	20.72	-204.07	-15.75
1683	2	0.53	0.16	8.40	3.34	-0.14	-4.40	-2.22	29.97	-284.41	-10.32
1683	3	0.19	0.59	10.08	3.36	1.07	-2.82	-0.02	26.98	-236.50	-24.98
1683	4	-0.18	0.53	13.22	2.68	1.49	-5.36	-1.23	11.71	-163.99	-36.00
1684	1	0.13	0.12	29.36	0.33	1.07	-5.99	6.93	29.06	12.11	-30.98
1684	2	0.47	0.12	25.59	0.93	1.44	-9.85	3.31	14.77	-3.76	-31.61
1684	3	0.39	0.45	28.31	1.09	3.06	-7.86	1.97	55.89	-0.10	-5.23
1684	4	0.12	0.44	32.29	0.67	1.09	-15.72	5.52	83.30	5.69	-11.98
1685	1	0.10	0.13	22.47	1.14	-0.02	-12.09	3.16	-3.01	-17.42	-36.30
1685	2	0.43	0.14	18.08	1.44	0.33	-12.78	-0.34	-10.23	-62.58	-49.64
1685	3	0.27	0.53	20.53	1.27	3.28	0.11	0.57	9.03	-19.56	-17.68
1685	4	0.00	0.48	25.41	0.92	2.18	-3.98	3.31	36.90	-0.37	-6.31
1686	1	0.06	0.16	15.21	1.66	-0.56	-13.33	-0.37	-22.06	-100.12	-70.97
1686	2	0.39	0.18	11.64	1.79	-0.19	-11.65	-4.84	-15.85	-175.19	-64.88
1686	3	0.14	0.67	13.57	1.29	2.68	0.89	0.72	-42.18	-72.90	-63.90
1686	4	-0.12	0.59	17.75	0.97	2.29	0.63	1.56	-14.28	-29.83	-33.52
1687	1	0.16	0.12	-30.52	1.34	-0.01	-2.65	-0.72	-8.95	3.76	40.52
1687	2	0.61	0.12	-31.54	1.67	-0.26	-0.23	-0.70	1.85	-29.29	29.93
1687	3	0.52	0.45	-32.37	1.71	-0.27	-1.18	-3.20	18.52	-7.24	22.22
1687	4	0.14	0.44	-30.95	1.09	0.68	-4.60	-2.66	12.79	9.77	36.56
1688	1	0.12	0.12	-30.89	1.27	-0.47	1.59	-0.16	14.32	-72.65	16.26
1688	2	0.57	0.13	-28.82	-0.15	-0.46	1.77	-1.34	37.31	-146.10	3.29
1688	3	0.36	0.50	-30.40	0.96	-2.58	-1.20	2.20	42.50	-101.35	-10.25
1688	4	-0.01	0.47	-31.85	1.70	-1.27	-1.72	-2.03	28.97	-27.05	9.61
1689	1	0.08	0.14	-27.22	-0.98	-0.36	2.52	-0.84	51.78	-196.05	-0.26
1689	2	0.52	0.16	-25.47	-2.19	-0.36	1.05	2.34	62.79	-249.66	-3.06
1689	3	0.19	0.58	-26.53	-2.49	-2.90	-6.93	-3.59	72.61	-213.23	-12.29
1689	4	-0.18	0.53	-28.30	-0.12	-2.85	-5.49	-0.07	56.99	-153.49	-15.27
1690	1	0.13	0.12	-31.26	-0.08	3.07	-2.03	-6.54	41.91	10.80	31.76
1690	2	0.46	0.12	-32.84	1.06	2.43	3.91	-8.99	47.46	6.27	22.93
1690	3	0.39	0.45	-35.31	-0.16	-0.43	-29.95	-9.10	119.31	9.60	23.02
1690	4	0.12	0.44	-33.99	-0.62	2.00	-22.78	-8.15	103.53	6.39	13.24
1691	1	0.10	0.13	-32.72	1.27	4.31	9.61	-5.60	45.11	-11.33	5.26
1691	2	0.43	0.14	-31.78	2.25	3.23	13.79	-3.62	46.38	-51.07	-21.32
1691	3	0.27	0.53	-33.98	0.47	-1.89	-36.64	-11.85	107.11	-4.51	14.43
1691	4	0.00	0.48	-35.18	0.13	0.45	-34.77	-10.26	125.08	9.55	19.42
1692	1	0.06	0.16	-30.19	1.85	4.46	19.75	-0.17	33.05	-60.19	-25.76
1692	2	0.39	0.18	-27.92	1.93	3.00	17.64	8.83	42.27	-159.21	-76.34
1692	3	0.14	0.66	-30.03	1.53	-2.81	-31.21	-16.55	45.07	-54.24	-34.09
1692	4	-0.11	0.59	-32.77	1.38	-0.69	-37.05	-12.97	85.58	-15.69	-5.63
1693	1	0.36	0.12	-3.18	-25.45	1.22	0.32	1.27	-265.22	69.59	1.13
1693	2	0.90	0.10	-3.19	-23.77	2.56	3.54	-1.12	-283.56	73.96	-0.27
1693	3	1.21	0.37	-2.46	-23.50	4.07	-0.80	1.24	-272.97	74.14	5.34
1693	4	0.76	0.46	-1.88	-23.95	2.26	-1.29	2.29	-247.35	70.75	16.51
1694	1	0.30	0.09	-3.05	-22.03	3.66	2.43	4.36	-304.53	60.95	-7.09
1694	2	0.85	0.07	-3.56	-18.43	4.65	5.28	2.59	-340.42	18.52	-15.13
1694	3	1.01	0.27	-3.92	-16.51	6.58	6.02	5.27	-361.55	0.03	8.14
1694	4	0.54	0.32	-2.03	-21.14	4.97	3.20	-6.51	-369.74	37.57	0.46
1695	1	0.25	0.07	-5.05	-14.52	4.37	4.91	6.45	-386.32	-24.20	-9.96

1695	2	0.80	0.06	-6.34	-10.43	1.47	-1.98	9.13	-421.01	-66.26	-1.33
1695	3	0.83	0.22	-7.63	-7.26	1.85	-0.73	9.62	-478.42	-63.01	12.69
1695	4	0.35	0.24	-5.73	-11.03	5.70	4.05	7.97	-420.00	-39.39	16.60
1696	1	0.27	0.16	-4.44	-23.70	11.76	13.92	-6.53	-205.43	70.68	-51.90
1696	2	0.66	0.13	-5.38	-18.90	12.84	17.53	0.01	-252.96	45.13	-58.85
1696	3	0.89	0.47	-9.66	-11.38	11.70	-37.79	16.02	-226.51	8.32	24.66
1696	4	0.57	0.59	-7.16	-17.64	13.37	-27.42	20.19	-119.72	31.64	-3.02
1697	1	0.24	0.10	-5.23	-17.36	11.97	14.86	8.36	-301.33	27.36	-23.81
1697	2	0.65	0.08	-7.61	-10.09	9.91	4.23	7.02	-384.00	-24.41	-14.59
1697	3	0.78	0.30	-10.32	-3.07	6.45	-35.41	11.27	-480.46	-31.65	61.18
1697	4	0.44	0.37	-8.61	-8.42	9.84	-38.33	15.75	-311.27	-19.67	70.21
1698	1	0.20	0.07	-7.72	-7.40	6.57	2.49	12.22	-464.74	-40.86	25.72
1698	2	0.62	0.06	-9.12	-4.15	1.39	-1.14	9.55	-537.98	-53.61	-5.59
1698	3	0.64	0.23	-9.73	-0.64	0.17	-4.09	4.53	-653.56	-21.42	-0.04
1698	4	0.29	0.25	-9.53	-3.06	4.59	-25.78	10.60	-556.93	-25.36	84.25
1699	1	0.20	0.06	-6.31	-10.52	-2.38	2.26	9.07	-422.06	-67.24	-3.76
1699	2	0.75	0.07	-4.98	-14.74	-5.19	-4.42	6.15	-385.30	-31.03	3.13
1699	3	0.65	0.24	-5.63	-11.35	-6.49	-3.72	7.79	-423.13	-44.58	-22.44
1699	4	0.17	0.22	-7.62	-7.40	-2.73	1.05	9.54	-479.59	-63.06	-16.90
1700	1	0.15	0.07	-3.49	-18.62	-5.38	-4.77	2.44	-340.15	7.09	10.58
1700	2	0.70	0.09	-2.96	-22.09	-4.33	-1.89	4.36	-301.24	50.65	6.96
1700	3	0.46	0.32	-1.92	-21.30	-5.52	-3.35	-0.67	-309.52	32.90	-12.77
1700	4	-0.01	0.27	-3.82	-16.92	-7.25	-5.56	4.92	-364.55	-10.75	-14.33
1701	1	0.10	0.10	-3.10	-23.71	-3.20	-3.00	-0.91	-277.45	63.05	2.10
1701	2	0.64	0.12	-3.11	-25.24	-1.84	0.05	1.48	-256.79	62.48	1.73
1701	3	0.24	0.46	-1.79	-23.76	-2.76	1.73	2.61	-241.92	59.85	-16.46
1701	4	-0.21	0.37	-2.37	-23.51	-4.58	1.34	1.37	-270.56	58.99	-12.14
1702	1	0.16	0.06	-9.19	-4.14	-2.27	1.88	9.50	-539.36	-52.38	2.32
1702	2	0.58	0.07	-7.75	-7.69	-7.41	-2.08	12.02	-669.73	-42.91	-30.21
1702	3	0.49	0.25	-9.70	-2.21	-5.02	30.15	11.09	-584.46	-27.09	-86.59
1702	4	0.14	0.23	-9.80	-0.63	-0.58	9.33	4.63	-655.52	-21.15	-1.43
1703	1	0.12	0.08	-7.70	-10.30	-10.69	-4.13	6.80	-342.48	-30.70	7.68
1703	2	0.53	0.10	-5.27	-17.53	-12.60	-14.74	6.00	-308.06	15.11	14.18
1703	3	0.33	0.37	-8.76	-8.65	-10.24	40.81	16.31	-326.38	-26.23	-78.97
1703	4	-0.01	0.30	-10.57	-3.28	-6.92	39.23	11.81	-491.23	-33.05	-65.20
1704	1	0.07	0.13	-5.49	-18.84	-13.33	-17.53	-0.21	-253.74	31.85	49.43
1704	2	0.46	0.16	-4.53	-23.43	-12.12	-13.63	-6.59	-208.63	56.67	44.03
1704	3	0.16	0.59	-7.22	-17.62	-13.54	28.52	20.06	-139.50	16.90	-12.16
1704	4	-0.16	0.47	-9.63	-11.51	-12.02	39.58	16.32	-245.94	-1.10	-35.91
1705	1	0.29	0.16	-25.15	-2.10	0.82	-0.67	1.98	56.94	-230.92	0.27
1705	2	0.74	0.14	-26.73	-0.90	0.80	-2.25	-0.89	46.68	-186.85	3.12
1705	3	1.00	0.53	-27.86	-0.03	3.16	5.78	-0.37	46.50	-151.23	20.11
1705	4	0.63	0.58	-26.26	-2.40	3.35	7.05	-3.79	61.50	-208.29	13.35
1706	1	0.25	0.13	-28.19	-0.09	0.80	-1.20	-1.68	33.24	-139.66	4.01
1706	2	0.69	0.12	-30.01	1.34	0.68	-1.17	-0.36	12.67	-69.07	-1.63
1706	3	0.83	0.47	-30.99	1.76	1.38	2.14	-2.26	22.66	-41.28	5.51
1706	4	0.45	0.50	-29.79	1.05	2.79	1.56	1.82	33.96	-101.58	18.86
1707	1	0.20	0.12	-30.46	1.73	0.41	0.79	-0.98	2.07	-28.46	-8.55
1707	2	0.65	0.12	-29.20	1.40	0.05	3.05	-0.93	-6.11	3.52	-15.54
1707	3	0.68	0.44	-29.66	1.14	-0.65	4.99	-2.72	13.07	9.40	-12.97
1707	4	0.29	0.45	-31.29	1.75	0.29	1.68	-3.46	15.34	-11.10	-3.26
1708	1	0.22	0.18	-27.83	2.16	-2.66	-17.14	6.38	27.78	-158.72	76.37
1708	2	0.54	0.16	-29.87	2.00	-4.22	-19.01	-0.56	22.04	-92.14	60.19
1708	3	0.72	0.59	-32.41	1.42	0.73	37.39	-13.26	48.52	-81.73	16.62
1708	4	0.46	0.66	-29.97	1.61	2.90	31.64	-17.17	12.25	-60.74	45.46
1709	1	0.19	0.14	-31.21	2.33	-3.62	-12.99	-4.04	30.57	-56.53	30.83
1709	2	0.52	0.13	-31.87	1.32	-4.14	-8.69	-5.72	31.15	-19.29	6.86
1709	3	0.62	0.48	-34.25	0.14	-0.44	34.93	-10.26	92.87	5.97	-9.38
1709	4	0.35	0.53	-33.39	0.49	1.89	36.89	-12.04	71.30	-10.57	-2.16
1710	1	0.16	0.12	-31.77	1.09	-2.34	-3.22	-7.12	38.06	1.46	-5.59
1710	2	0.50	0.12	-29.98	-0.02	-3.00	2.58	-6.46	38.13	10.27	-12.7
1710	3	0.51	0.44	-32.61	-0.59	-1.97	23.08	-5.00	93.20	5.86	-5.4
1710	4	0.23	0.45	-34.17	-0.13	0.39	30.15	-9.11	95.39	5.44	-13.31
1711	1	0.17	0.12	-26.64	0.72	-0.18	6.05	-1.40	-8.25	7.77	-19.18
1711	2	0.62	0.12	-21.85	-0.52	-0.37	7.29	0.08	-7.21	-12.98	-19.66
1711	3	0.53	0.45	-23.21	-0.44	-1.67	7.55	-0.26	5.72	-4.74	-19.46
1711	4	0.14	0.44	-27.33	0.42	-1.26	6.14	-4.06	9.80	19.16	-15.19
1712	1	0.12	0.12	-17.91	-1.31	-0.42	8.22	-0.78	-2.91	-47.14	-12.89
1712	2	0.58	0.13	-13.04	-2.20	-0.47	6.85	0.38	11.06	-119.95	-15.13
1712	3	0.37	0.50	-15.18	-1.65	-1.90	5.97	2.17	9.55	-84.25	-27.24
1712	4	-0.02	0.47	-19.56	-1.08	-1.84	8.22	-1.59	5.43	-29.06	-21.58
1713	1	0.08	0.14	-10.08	-2.45	-0.46	6.90	-0.77	20.58	-169.31	-9.53
1713	2	0.53	0.16	-7.02	-2.55	-0.49	4.66	1.61	26.89	-232.54	-0.96
1713	3	0.19	0.59	-8.97	-2.72	-1.45	3.30	-0.51	29.28	-198.66	-14.53
1713	4	-0.18	0.53	-12.04	-2.17	-1.70	5.80	0.69	18.63	-133.36	-24.42
1714	1	0.13	0.12	-27.97	-0.26	-1.10	6.21	-6.87	33.54	11.98	-11.68
1714	2	0.47	0.12	-24.18	-0.83	-1.46	9.89	-3.37	25.43	2.71	-12.97
1714	3	0.39	0.45	-26.81	-1.03	-2.95	8.43	-1.83	72.33	3.49	4.01
1714	4	0.12	0.44	-30.81	-0.63	-1.09	16.23	-5.41	85.32	5.59	-4.24
1715	1	0.10	0.13	-21.11	-0.98	-0.07	11.73	-3.37	13.32	-8.66	-18.47
1715	2	0.43	0.14	-16.87	-1.16	-0.49	12.58	-0.17	7.60	-44.22	-31.33
1715	3	0.27	0.53	-19.28	-1.17	-3.12	0.29	-0.59	42.17	-5.85	-2.33
1715	4	0.00	0.48	-23.97	-0.87	-2.11	4.62	-3.23	62.71	3.72	2.12
1716	1	0.06	0.16	-14.18	-1.25	0.39	12.81	-0.19	-2.39	-78.42	-53.23
1716	2	0.39	0.18	-10.80	-1.22	-0.04	11.40	4.05	1.51	-146.06	-67.17
1716	3	0.14	0.67	-12.77	-1.02	-2.51	-0.94	-1.31	-2.15	-52.79	-46.22
1716	4	-0.12	0.59	-16.65	-0.82	-2.16	-0.39	-1.74	24.64	-17.25	-16.00
1717	1	0.36	0.13	-2.57	-6.21	0.73	0.42	-4.69	-266.34	29.20	-4.13
1717	2	0.90	0.10	-2.22	-5.38	1.00	2.72	-4.10	-291.54	31.63	-5.52
1717	3	1.21	0.38	-1.99	-6.19	1.56	2.42	-3.98	-275.06	34.21	6.68
1717	4	0.77	0.47	-2.31	-7.18	1.16	1.35	-4.02	-237.52	28.46	13.16
1718	1	0.30	0.09	-1.63	-4.54	1.19	2.76	-3.02	-318.66	25.21	-15.90
1718	2	0.85	0.08	-0.63	-3.18	1.31	3.84	-2.73	-365.07	4.74	-24.94
1718	3	1.01	0.28	-0.50	-3.25	1.74	4.20	-1.59	-377.90	-5.25	-0.76
1718	4	0.54	0.33	-1.16	-4.89	1.59	3.22	-4.45	-318.22	22.43	5.25
1719	1	0.25	0.07	0.06	-2.15	1.23	3.15	-1.65	-409.35	-28.17	-24.99
1719	2	0.80	0.06	0.62	-1.16	0.78	0.67	-0.87	-454.50	-62.92	-21.01
1719	3	0.83	0.24	0.36	-0.99	0.85	0.29	0.10	-505.98	-61.21	-4.60
1719	4	0.35	0.25	0.06	-1.92	1.51	2.68	-1.12	-441.26	-35.73	1.95
1720	1	0.27	0.16	-3.45	-7.63	3.83	6.90	-6.73	-201.83	31.48	-35.15
1720	2	0.66	0.13	-2.86	-5.16	3.66	8.33	-3.65	-255.75	17.01	-47.87
1720	3	0.89	0.48	-3.93	-3.25	3.57	-4.03	1.48	-221.35	-0.34	29.03
1720	4	0.57	0.60	-4.62	-6.15	5.09	-1.10	0.99	-124.48	9.80	12.92
1721	1	0.24	0.10	-1.93	-4.23	3.25	7.42	-1.05	-305.66	11.25	-22.19
1721	2	0.65	0.08	-1.26	-2.02	2.52	4.37	-0.57	-392.58	-25.83	-24.53
1721	3	0.76	0.31	-1.62	-0.62	1.52	-5.88	1.81	-472.27	-27.23	53.84
1721	4	0.44	0.38	-2.64	-2.28	2.68	-5.49	1.07	-302.19	-21.24	66.10
1722	1	0.20	0.07	-0.30	-1.40	1.75	2.85	0.58	-473.30	-19.57	11.64
1722	2	0.62	0.06	0.04	-0.53	0.83	-0.15	0.65	-560.37	-54.58	-18.99
1722	3	0.63	0.24	0.01	-0.05	0.36	-4.21	0.63	-672.09	-22.31	-4.20
1722	4	0.29	0.26	-0.61	-0.71	1.04	-2.72	1.52	-560.30	-24.72	78.31
1723	1	0.20	0.06	0.50	-1.13	0.26	-0.49	-0.67	-461.09	-60.36	-17.30
1723	2	0.75	0.07	-0.25	-2.20	-0.38	-5.62	-1.38	-430.44	-39.67	-7.81
1723	3	0.65	0.25	-0.32	-1.79	-0.47	-3.51	-1.65	-466.34	-51.27	-31.32
1723	4	0.17	0.24	0.26	-0.89	0.21	-1.89	0.29	-515.26	-66.82	-23.42
1724	1	0.15	0.08	-1.05	-3.47	-0.64	-4.28	-2.57	-393.42	-10.26	-1.34

1724	2	0.70	0.09	-2.20	-5.22	-0 60	-3 35	-2.60	-355.38	19.48	-4.21
1724	3	0.46	0.33	-1.69	-5.30	-1.15	-4.14	-4.27	-355.05	7.18	-25.00
1724	4	-0.01	0.28	-0.95	-3.29	-1.13	-5.24	-1.14	-410.82	-24.37	-25.67
1725	1	0.10	0.10	-2.91	-6.37	-0.42	-3.33	-3 95	-332.85	27.22	-7.36
1725	2	0.64	0.13	-3.38	-7.53	-0.08	-0.62	-4.12	-315.16	30 94	-8.24
1725	3	0.23	0.47	-2.95	-8 17	-0.73	-2.28	-3.84	-277 89	22.98	-25.96
1725	4	-0.21	0.38	-2.57	-6.89	-1.15	-3.59	-3.74	-311.67	23.25	-22.74
1726	1	0.16	0.06	0.04	-0.56	0.24	-1.13	0 84	-574.43	-55.70	-5.63
1726	2	0.58	0.07	-0.58	-1.22	-0 85	-3.51	0.72	-513.41	-49.85	-36.76
1726	3	0.49	0.26	-0.75	-0.59	-0.59	0.15	0.85	-611.54	-31.35	-93.77
1726	4	0.14	0.24	0.02	-0.05	0 22	-2.63	0.65	-693.26	-21.98	-4.62
1727	1	0.12	0.08	-1.58	-2.07	-1.82	-4.82	-0.20	-428.58	-37.46	2.11
1727	2	0.53	0.10	-2.37	-4.46	-2.83	-7.99	-0.46	-352.95	-2.83	3 33
1727	3	0.32	0.38	-3.02	-2.22	-2.49	2.76	0.52	-368.80	-34.74	-91.91
1727	4	-0.01	0.31	-1.80	-0.46	-1.13	1.41	1.30	-537.83	-35.40	-72.47
1728	1	0.07	0.13	-3.27	-5.69	-3.42	-8.54	-3.17	-303.43	7.92	36.75
1728	2	0.46	0.16	-3.90	-8.49	-3.71	-7.45	-6.30	-244.74	24.79	28.94
1728	3	0.16	0.60	-5.10	-6.53	-5.27	0 09	1.10	-175.95	-6.93	-35.66
1728	4	-0.16	0.48	-4.36	-3 36	-3.52	2.15	1.25	-286.86	-13.79	-51.42
1729	1	0.13	0.21	-5.01	-2.49	-0.57	3.23	0.47	26.00	-290.08	9.20
1729	2	0.47	0.21	-3.95	-2.32	-0.41	2.67	1.05	20.32	-324.22	15.64
1729	3	0.47	0.79	-3.60	-2.12	-0.40	2.34	1 94	19.57	-337.05	29.65
1729	4	0.13	0.79	-4.64	-2.23	-0.74	3.52	1.21	27.68	-310.05	17.70
1730	1	0.09	0.21	-3.43	-2.23	-0.35	3.12	-0.91	14 80	-342.03	19.08
1730	2	0.32	0.21	-2.76	-2.10	-0.20	2.82	2.14	9.33	-360 45	22.40
1730	3	0.32	0.79	-2.50	-1.90	-0.08	2.46	1.54	8.64	-365.62	36.73
1730	4	0.09	0.79	-3.06	-1.99	-0 23	2.91	1.18	14.90	-350.60	34.41
1731	1	0.09	0.21	0.92	1 99	-0.22	5.06	-1.66	-1.02	-378.90	-26.50
1731	2	0.33	0.21	2.08	2.17	-0.20	5.59	2.08	2.94	-370.31	-24.38
1731	3	0.33	0.79	1.94	2 03	0.02	4 66	-0 74	3.67	-372.35	-36 80
1731	4	0.09	0.79	0.92	1.80	0.01	4.29	-0.75	-0 67	-376.81	-34.89
1732	1	0.09	0.21	-0.22	-1.62	-0.36	3.08	-2.29	-5.94	-381.02	26.71
1732	2	0.35	0.21	0.34	-1 58	-0 27	2.15	2.73	-5.75	-376.39	25.18
1732	3	0.35	0.79	0.14	-1.22	0.01	2.52	1 15	-7.17	-369.84	28.72
1732	4	0.09	0.79	-0.41	-1.43	-0.01	2.69	0.61	-5 32	-376.45	32.54
1733	1	0.09	0.21	-0.15	0.83	-0.61	-1.20	-2.68	-5.67	-361.37	-18.72
1733	2	0.33	0.21	-0.43	0.81	-0.36	-0.81	2.86	-10.46	-372.86	-24.80
1733	3	0.33	0.79	-0.23	0.64	-0.07	-0 49	0.66	-8.21	-364 15	-25.52
1733	4	0.09	0.79	0.12	0.60	-0 15	-0.57	0.36	-8.28	-351.92	-21.78
1734	1	0.23	0.21	-0.55	-0.41	-0.72	-1.09	-0 40	-6.87	-349.83	18.26
1734	2	0.86	0.21	-1.72	0.13	-0.65	1.23	-3.33	-10.02	-321.61	5.25
1734	3	0.86	0.79	-1.35	-0.50	-0.69	-0.43	-0.26	-7.75	-316.96	6.32
1734	4	0.23	0.79	-0.65	-0.37	-0.20	-1.54	-0.47	-7.16	-340.95	16.41
1735	1	0.30	0.17	-1.78	0.65	-0.85	-1.92	-0.92	-12.54	-295.68	-1.77
1735	2	1.10	0.05	-6.13	1.73	-0.87	-2.66	12.06	-46.48	-246.15	-5.14
1735	3	1.10	0.63	-2.24	1.29	0 59	0.65	-4.60	-17 87	-269.58	10.68
1735	4	0.30	0.75	-2.27	0.00	-0 16	-0.10	1.77	-14 63	-289.83	4.74
1736	1	0.18	0.21	-25.26	-4.74	1 17	3.35	-0.79	52.12	-279.51	-12.22
1736	2	0.67	0.21	-24.55	-3.70	1.07	2.28	2.22	58.57	-270.17	-6.88
1736	3	0.67	0.79	-23.97	-3 73	2.15	2.03	1.37	60.94	-285.42	-12.27
1736	4	0.18	0.79	-24.52	-4 64	1 71	3.22	-1.38	49.70	-287 23	-25.69
1737	1	0.21	0.21	-27.91	-5.93	2.14	4.83	7.46	20.85	-450 55	-15.04
1737	2	0.78	0.21	-26.10	-5.07	2.60	3.43	-5.06	40.36	-446.06	-14.94
1737	3	0.78	0.79	-25.61	-5.00	3.56	3.69	-3.75	39.20	-449.06	-31.22
1737	4	0.21	0.79	-27.62	-5.72	2.43	4.88	9.80	24.67	-442.99	-25.93
1738	1	0.21	0.34	1.27	6.29	-0.25	-0 86	16.18	-203.03	10 27	-10.35
1738	2	0.79	0.34	1.17	6.24	-0 19	-0.44	16.04	-201.01	11.20	-7.66
1738	3	0.79	1.28	4.47	22.19	-0.22	-0.05	18.48	-203.52	9.91	-14.94
1738	4	0.21	1.28	4.65	22.37	-0.24	0.24	18.49	-208.12	9.87	-13.02
1739	1	0.21	0.29	-3.18	-14.61	-0.15	-0.04	13.45	-211.36	16.48	-6.45
1739	2	0.79	0.29	-3.24	-14.65	-0.10	-0.62	13.48	-210.05	16.87	-4.
1739	3	0.79	1.09	-0.90	-3.44	-0.07	-0.18	14.86	-206.00	14.15	-6.3
1739	4	0.21	1.09	-0.83	-3.39	-0.16	0.54	14.93	-207.07	13.70	-8.64
1740	1	0.21	0.32	-5.47	-25.59	-0.06	0.20	5.03	-218.00	19.69	-2.73
1740	2	0.79	0.32	-5.51	-25.63	-0.05	-0.58	5.02	-216.79	19.90	-2.01
1740	3	0.79	1.19	-4.48	-20.63	-0.05	-0.30	6.54	-213.22	18.46	-3.61
1740	4	0.21	1.19	-4.43	-20.59	-0.08	0.24	6.57	-214.57	18.18	-4.91
1741	1	0.21	0.28	-5.30	-24.71	0.01	-0.13	-3.17	-220.99	20.53	0.48
1741	2	0.79	0.28	-5.34	-24.75	0.01	-0 12	-3 17	-219.81	20 77	0.51
1741	3	0.79	1.06	-5.73	-26.69	-0.01	-0.33	-1 81	-218.49	20 47	-0.92
1741	4	0.21	1.06	-5.69	-26.65	-0.01	0.18	-1.81	-219.67	20.28	-1.31
1742	1	0.30	0.21	-1.94	-0 32	0.26	-1.37	0 92	-4.45	-292.90	6.96
1742	2	1.10	0.21	-0.99	-0 51	0.18	5.37	-2.82	0.50	-282.09	0.48
1742	3	1.10	0.79	-0.55	-1.18	0.34	-0.24	-0.99	0.74	-257 63	0 16
1742	4	0.30	0.79	-1.47	-0.73	-0.04	-0.08	0.86	-0.54	-290 [illegible]	5.01
1743	1	0.23	0.21	-0.87	-0.46	-0.07	-0.32	-0.57	-6.11	-333 [illegible]	15.34
1743	2	0.86	0.21	-1.23	-0.17	-0.51	-0.60	-0.79	-5.74	-310.63	9.72
1743	3	0.86	0.79	-1.42	-0.50	-0.43	-0.30	-1.35	-1.39	-305 [illegible]	8.82
1743	4	0.23	0.79	-1.09	-0.40	-0.06	-0.23	-1.06	-1.44	-325.43	16.00
1744	1	0.09	0.21	0.43	0.51	-0.01	-1.33	-0.50	-6.63	-345.93	-21.74
1744	2	0.33	0.21	0.06	0.47	0.09	-1.46	-0.20	-5.20	-339.27	-26.02
1744	3	0.33	0.79	0.66	0.30	0.09	-1.46	-0.85	-1.64	-341.47	-26.74
1744	4	0.09	0.79	0.95	0.29	0 22	-0.99	-1.21	-1.77	-335.12	-21.08
1745	1	0.09	0.21	-0.39	-1.01	0.20	1.47	2 48	-3.64	-387.90	36.30
1745	2	0.35	0.21	-0.07	-1.02	0.24	1.70	-0.40	-5.51	-361 31	38.78
1745	3	0.35	0.79	-0.47	-0.25	0.31	-0.38	-0.40	-2.63	-345.97	31.47
1745	4	0.09	0.79	-0.32	-0.33	0 28	-0.71	3.56	-2 92	-331 47	39.46
1746	1	0.09	0.21	0.76	1.38	0.19	3.37	-0.04	-1.10	-339 80	-41.39
1746	2	0.33	0.21	1.51	1.51	0.17	3 58	-2 91	2.16	-368.71	-45.40
1746	3	0.33	0.79	0.57	0.42	0.24	1.15	-4 33	-2 41	-359.04	-51.87
1746	4	0.09	0.79	0.37	0.34	0.26	0.84	-0.21	-2.38	-354 70	-45.11
1747	1	0.09	0.21	-2.49	-1.57	-0.17	2.42	2.23	12.02	-357 48	46.22
1747	2	0.32	0.21	-1.96	-1.47	-0.02	2.08	1.94	7.22	-365.38	47.11
1747	3	0.32	0.79	-0.86	-0.42	-0.02	1.86	2.55	-0.97	-360.24	55.13
1747	4	0.09	0.79	-1.39	-0.47	-0.21	2.56	3.45	0.51	-361.29	56.26
1748	1	0.13	0.21	-3.98	-1.74	-0.87	2.99	3.19	26.88	-329.36	28.14
1748	2	0.47	0.21	-2.97	-1.59	-0.42	2.47	2 87	13.81	-349 50	41.80
1748	3	0.47	0.79	-1.91	-0.57	-0.49	2.08	3.51	3.17	-364.25	54.71
1748	4	0.13	0.79	-2.80	-0.66	-0 97	2.71	3.29	6.95	-364.70	38.28
1749	1	0.18	0.21	-23.48	-4.56	1.97	3.34	0 96	41.50	-295.68	-35 98
1749	2	0.67	0.21	-22.60	-3.78	2.97	2.32	5.40	50.62	-301 62	-20.42
1749	3	0.67	0.79	-19.59	-3.74	3.62	2.26	4.37	13.61	-329.81	-24.78
1749	4	0.18	0.79	-21.56	-4.33	2.07	5.84	0.10	14.36	-298 62	-42.52
1750	1	0.21	0.21	-27.21	-5.28	2.63	4.63	10.52	23.30	-426 74	-31.98
1750	2	0.78	0.21	-24.85	-4.68	3 64	4.09	-5.41	31 85	-452 14	-42 15
1750	3	0.78	0.79	-23.51	-4.29	3.75	4.40	-3.33	14.93	-452 40	-45.15
1750	4	0.21	0.79	-26.62	-4.71	2.46	4.49	16.25	18.19	-404.46	-32.46
1751	1	0.21	0.34	1.00	6.19	-0.07	-0.50	16.00	-200.40	12.51	-6.81
1751	2	0.79	0.34	0.77	6.17	-0.03	-0 72	15 75	-197.76	15.28	-3 64
1751	3	0.79	1.28	2.84	21.97	-0.15	-0.25	17.91	-195 51	10.96	-13.39
1751	4	0.21	1.28	4.32	21 93	-0 16	-0 56	19.75	-197 73	10.30	-14 93
1752	1	0.21	0.29	-3.31	-14.62	-0.07	-0.68	13.30	-209.43	17.52	-3.51
1752	2	0.79	0.29	-3.40	-14.70	-0.06	-0.57	13.40	-208.75	18.42	-2.24
1752	3	0.79	1.09	-1.16	-3.51	-0.02	0.09	14.64	-204 43	16.50	-3.36
1752	4	0.21	1.09	-1.02	-3.47	-0 06	0.14	14.50	-203 92	15 36	-4.94
1753	1	0.21	0.32	-5.55	-25.65	-0.04	0.21	5.01	-215.07	20.14	-1.53

1753	2	0.79	0.32	-5.59	-25.68	-0.04	-0.51	5.02	-215.36	20.40	-0.96
1753	3	0.79	1.19	-4.60	-20.67	-0.03	-0.41	6.50	-211.78	19.46	-1.81
1753	4	0.21	1.19	-4.53	-20.65	-0.04	0.30	6.57	-212.79	18.80	-2.76
1754	1	0.21	0.28	-5.37	-24.78	0.01	-0.10	-3.18	-219.12	20.91	0.54
1754	2	0.79	0.28	-5.41	-24.81	0.00	-0.09	-3.17	-218.35	21.05	0.57
1754	3	0.79	1.06	-5.80	-26.74	-0.01	-0.32	-1.82	-217.06	20.84	-0.30
1754	4	0.21	1.06	-5.76	-26.71	-0.01	0.20	-1.81	-217.73	20.64	-0.62
1755	1	0.30	0.21	-1.19	-0.92	-0.32	0.88	-1.07	0.73	-286.15	4.51
1755	2	1.10	0.21	-0.27	-1.32	-0.29	0.62	0.25	-0.06	-258.97	0.75
1755	3	1.10	0.79	-0.31	-1.42	-0.55	0.48	1.66	-1.15	-257.35	0.90
1755	4	0.30	0.79	-1.15	-0.97	-0.72	0.15	-1.10	0.57	-281.52	4.60
1756	1	0.23	0.21	-1.36	-0.38	-0.26	-0.61	-1.34	1.62	-319.59	16.28
1756	2	0.86	0.21	-1.56	-0.67	-0.42	-0.91	1.40	0.70	-303.18	9.35
1756	3	0.86	0.79	-1.51	-0.65	-0.66	-0.04	1.32	0.44	-297.07	10.97
1756	4	0.23	0.79	-1.60	-0.25	-0.60	-0.80	-1.14	2.81	-312.05	17.82
1757	1	0.09	0.21	1.30	0.14	0.08	-1.26	-0.95	2.12	-326.40	-20.75
1757	2	0.33	0.21	1.05	-0.02	0.02	-1.55	-0.09	1.65	-330.55	-26.28
1757	3	0.33	0.79	1.41	-0.19	-0.24	-1.71	1.97	3.92	-320.24	-24.98
1757	4	0.09	0.79	1.57	-0.07	-0.36	-1.03	-1.94	5.03	-317.52	-23.20
1758	1	0.09	0.21	-0.29	0.44	0.17	-2.55	2.74	-1.34	-337.41	37.77
1758	2	0.35	0.21	-0.78	0.23	0.22	-2.43	0.39	0.25	-333.73	30.75
1758	3	0.35	0.79	-1.04	0.89	-0.19	-3.54	2.34	2.26	-322.40	27.93
1758	4	0.09	0.79	-0.26	1.04	-0.20	-4.13	-0.89	-1.26	-325.06	31.08
1759	1	0.09	0.21	-0.02	-0.61	0.17	-1.17	-0.99	-5.13	-341.10	-43.34
1759	2	0.33	0.21	-0.21	-0.68	0.16	-1.64	-3.68	-7.93	-347.01	-49.78
1759	3	0.33	0.79	-0.88	-1.64	-0.16	-3.80	0.41	-13.81	-337.53	-35.78
1759	4	0.09	0.79	-0.23	-1.52	-0.15	-3.02	-2.28	-6.49	-329.10	-33.78
1760	1	0.09	0.21	-0.47	0.43	-0.29	1.98	3.06	-14.40	-363.69	55.66
1760	2	0.32	0.21	0.12	0.59	-0.08	2.57	3.05	-10.96	-352.55	53.72
1760	3	0.32	0.79	0.88	1.46	-0.21	2.89	3.08	-20.90	-345.74	37.52
1760	4	0.09	0.79	0.22	1.32	-0.43	2.28	0.38	-31.69	-361.83	38.24
1761	1	0.13	0.21	-1.87	0.17	-0.99	2.02	2.99	-21.75	-390.48	41.97
1761	2	0.47	0.21	-1.05	0.40	-0.55	3.01	3.21	-18.86	-371.17	54.20
1761	3	0.47	0.79	-0.41	1.11	-0.51	3.13	1.71	-41.34	-379.05	35.75
1761	4	0.13	0.79	-1.10	0.90	-0.72	1.81	1.06	-56.26	-421.07	31.19
1762	1	0.18	0.21	-19.85	-4.13	1.87	3.59	0.04	-14.76	-309.18	-34.82
1762	2	0.67	0.21	-16.94	-4.47	3.46	6.42	4.79	-25.07	-350.14	-21.75
1762	3	0.67	0.79	-13.94	-5.48	1.53	6.94	2.79	-60.16	-374.58	-6.42
1762	4	0.18	0.79	-18.63	-4.27	0.93	4.86	1.61	-37.58	-315.97	-8.90
1763	1	0.21	0.21	-25.93	-3.97	2.04	4.23	8.97	14.26	-382.56	-25.87
1763	2	0.78	0.21	-22.43	-4.19	3.21	5.59	-3.15	-0.58	-456.66	-36.78
1763	3	0.78	0.79	-21.42	-3.84	1.86	5.32	-4.27	-19.62	-452.44	-11.34
1763	4	0.21	0.79	-25.55	-3.75	1.21	4.45	4.80	10.91	-369.89	-7.70
1764	1	0.21	0.34	0.59	6.14	-0.05	-0.46	15.65	-193.15	16.75	-2.54
1764	2	0.79	0.34	0.47	6.14	-0.11	-0.51	15.54	-196.90	18.26	-1.63
1764	3	0.79	1.28	3.36	21.10	-0.11	-0.12	16.36	-173.80	11.79	-3.28
1764	4	0.21	1.28	3.62	21.33	-0.14	-0.42	16.60	-179.46	11.57	-10.15
1765	1	0.21	0.29	-3.46	-14.70	-0.07	0.09	13.24	-208.58	19.02	-1.59
1765	2	0.79	0.29	-3.51	-14.72	-0.09	-0.42	13.28	-208.23	19.45	-0.99
1765	3	0.79	1.09	-1.36	-3.56	-0.09	0.45	14.59	-202.58	18.44	-1.47
1765	4	0.21	1.09	-1.28	-3.53	-0.03	-0.24	14.73	-202.18	17.97	-2.47
1766	1	0.21	0.32	-5.62	-25.70	-0.04	0.23	5.00	-214.96	20.59	-0.61
1766	2	0.79	0.32	-5.64	-25.72	-0.05	-0.43	5.01	-218.57	20.63	-0.23
1766	3	0.79	1.19	-4.67	-20.70	-0.06	-0.46	6.49	-211.15	19.97	-0.72
1766	4	0.21	1.19	-4.64	-20.68	-0.04	0.42	6.52	-211.71	19.75	-1.28
1767	1	0.21	0.28	-5.43	-24.83	0.00	-0.09	-3.18	-217.96	21.10	0.57
1767	2	0.79	0.28	-5.45	-24.85	0.00	-0.06	-3.18	-217.52	21.08	0.56
1767	3	0.79	1.06	-5.85	-26.79	-0.02	-0.33	-1.82	-216.21	20.94	0.14
1767	4	0.21	1.06	-5.83	-26.76	-0.01	0.22	-1.81	-216.57	20.94	-0.11
1768	1	0.30	0.21	-1.15	-0.83	-1.06	0.14	-1.26	-2.47	-278.19	5.
1768	2	1.10	0.21	-0.32	-1.34	-0.89	0.25	2.44	-1.10	-256.06	0.
1768	3	1.10	0.79	-0.27	-1.00	-1.16	0.74	3.86	0.97	-256.06	-2.57
1768	4	0.30	0.79	-1.18	-0.52	-1.47	1.12	-1.19	-8.76	-270.76	4.79
1769	1	0.23	0.21	-1.58	-0.15	-0.92	-0.79	-1.03	1.00	-306.30	20.69
1769	2	0.86	0.21	-1.50	-0.53	-0.82	-0.04	2.15	-1.77	-291.09	12.17
1769	3	0.86	0.79	-1.57	-0.31	-1.06	-1.39	1.56	-8.77	-281.41	10.76
1769	4	0.23	0.79	-1.30	0.05	-1.29	-0.62	-0.95	-6.47	-299.27	26.31
1770	1	0.09	0.21	1.56	-0.24	-0.78	-1.05	-2.06	2.92	-315.10	-23.84
1770	2	0.33	0.21	1.40	-0.34	-0.48	-1.79	4.30	3.76	-316.53	-25.41
1770	3	0.33	0.79	1.01	-0.45	-0.75	-1.83	6.36	1.08	-317.62	-27.86
1770	4	0.09	0.79	1.28	-0.26	-1.21	-1.12	-3.22	-4.29	-311.13	-26.27
1771	1	0.09	0.21	-0.32	1.18	-0.59	-4.19	-4.75	-0.44	-323.06	24.40
1771	2	0.35	0.21	-1.05	0.96	-0.57	-3.36	4.68	2.15	-319.93	25.41
1771	3	0.35	0.79	-0.81	0.72	-0.98	-1.11	6.71	-2.71	-325.65	24.28
1771	4	0.09	0.79	-0.61	0.80	-0.97	-1.83	-6.75	-1.06	-333.75	18.92
1772	1	0.09	0.21	-0.15	-1.63	-0.51	-2.78	-3.69	-6.78	-328.59	-22.48
1772	2	0.33	0.21	-0.80	-1.77	-0.48	-3.76	4.90	-14.19	-338.13	-20.34
1772	3	0.33	0.79	0.20	-0.81	-0.78	-1.87	9.41	-7.71	-352.47	-3.96
1772	4	0.09	0.79	0.36	-0.78	-0.61	-0.83	-4.12	-4.35	-341.26	-13.02
1773	1	0.09	0.21	0.13	1.27	-0.52	2.21	-2.21	-33.14	-364.37	14.34
1773	2	0.32	0.21	0.79	1.45	-0.33	2.98	2.24	-21.57	-347.01	17.46
1773	3	0.32	0.79	-0.27	0.54	-0.43	2.75	1.81	-12.53	-340.97	-2.38
1773	4	0.09	0.79	-0.81	0.38	-0.57	1.85	-5.29	-18.51	-374.90	-8.25
1774	1	0.13	0.21	-1.13	0.72	-0.39	1.67	-1.79	-41.06	-425.69	11.90
1774	2	0.47	0.21	-0.46	1.12	-0.41	3.23	-0.40	-44.61	-382.09	13.94
1774	3	0.47	0.79	-1.36	0.19	-0.27	3.08	-2.14	-26.03	-384.26	-10.83
1774	4	0.13	0.79	-2.06	-0.10	0.04	1.85	-3.91	-34.16	-408.14	-5.40
1775	1	0.18	0.21	-18.60	-4.28	-0.02	4.84	-2.92	-36.41	-316.42	14.17
1775	2	0.67	0.21	-13.90	-5.45	-0.77	7.09	-3.26	-58.31	-374.29	11.93
1775	3	0.67	0.79	-16.81	-4.51	-2.76	6.59	-4.34	-18.15	-350.53	26.85
1775	4	0.18	0.79	-19.79	-4.15	-0.96	3.64	-1.33	-10.04	-310.56	38.51
1776	1	0.21	0.21	-25.56	-3.79	0.49	4.52	1.56	11.12	-401.73	8.82
1776	2	0.78	0.21	-21.42	-3.88	0.63	5.35	-0.04	-14.68	-453.65	15.63
1776	3	0.78	0.79	-22.40	-4.32	-0.71	5.64	-1.23	2.54	-457.85	39.34
1776	4	0.21	0.79	-25.94	-4.12	-0.23	4.36	-2.49	15.06	-397.34	25.76
1777	1	0.21	0.34	0.48	6.12	-0.20	0.11	15.55	-196.77	18.07	-1.07
1777	2	0.79	0.34	0.60	6.09	-0.25	0.07	15.69	-197.97	16.00	-0.14
1777	3	0.79	1.28	3.66	21.33	-0.11	1.00	16.69	-181.28	11.35	8.07
1777	4	0.21	1.28	3.37	21.10	-0.14	0.73	16.41	-174.29	11.72	1.63
1778	1	0.21	0.29	-3.51	-14.74	-0.12	0.17	13.29	-208.02	19.09	-0.65
1778	2	0.79	0.29	-3.47	-14.76	-0.14	-0.26	13.25	-207.86	18.56	0.90
1778	3	0.79	1.09	-1.28	-3.59	-0.18	0.47	14.76	-201.58	17.33	0.29
1778	4	0.21	1.09	-1.36	-3.58	-0.12	-0.19	14.58	-202.56	16.24	-0.80
1779	1	0.21	0.32	-5.65	-25.74	-0.06	0.23	5.01	-214.35	20.51	0.34
1779	2	0.79	0.32	-5.64	-25.76	-0.06	-0.38	5.00	-214.18	20.17	0.44
1779	3	0.79	1.19	-4.65	-20.75	-0.10	-0.33	6.50	-210.97	19.26	0.26
1779	4	0.21	1.19	-4.67	-20.72	-0.08	0.49	6.49	-210.92	19.68	-0.23
1780	1	0.21	0.28	-5.45	-24.87	-0.01	-0.04	-3.17	-217.32	20.49	0.57
1780	2	0.79	0.28	-5.45	-24.90	-0.01	-0.02	-3.18	-217.21	20.71	0.58
1780	3	0.79	1.06	-5.85	-26.83	-0.05	-0.27	-1.80	-215.80	20.58	0.52
1780	4	0.21	1.06	-5.85	-26.80	-0.03	0.24	-1.82	-215.00	20.87	0.26
1781	1	0.30	0.21	-1.59	-0.26	-1.78	-0.51	-4.26	-12.22	-269.35	-0.31
1781	2	1.10	0.21	-0.69	-0.72	-1.99	-0.67	5.27	-1.49	-256.03	-5.27
1781	3	1.10	0.79	-1.30	0.16	-1.48	8.44	7.33	-6.51	-270.62	-7.45
1781	4	0.30	0.79	-2.19	0.17	-2.09	-3.46	-5.06	-10.04	-289.15	-21.10
1782	1	0.23	0.21	-1.02	0.18	-1.53	-0.96	-1.56	-19.43	-346.91	27.22

1782	2	0.86	0.21	-1.36	0.11	-1.02	-0.27	5.12	-16.55	-271.92	13.30	1796	4	0.09	0.79	-0.02	0.99	-0.37	0.13	-2.06	6.71	-342.83	465-70
1782	3	0.86	0.79	-1.13	0.39	-0.94	0.89	4.71	-35.47	-252.07	18.19	1797	1	0.09	0.21	-1.58	-2.25	-0.73	3.76	-7.41	-0.39	-408.43	29.81
1782	4	0.23	0.79	-0.89	-0.01	-1.46	-0.06	-3.18	-33.19	-272.61	24.65	1797	2	0.35	0.21	-0.67	-2.06	-0.72	3.06	3.10	-1.67	-382.52	46
1783	1	0.09	0.21	0.90	-0.33	-1.40	-0.36	-2.38	-16.17	-304.44	-31.28	1797	3	0.35	0.79	-0.25	-2.17	-0.55	4.44	6.67	-6.95	-430.42	42.[illegible]
1783	2	0.33	0.21	0.68	-0.32	-0.85	-1.24	7.93	-10.00	-320.29	-33.23	1797	4	0.09	0.79	-1.55	-2.37	-0.57	4.84	-3.11	-0.43	-435.31	38.00
1783	3	0.33	0.79	0.45	0.26	-0.78	-0.55	7.84	-17.12	-340.60	-53.20	1798	1	0.09	0.21	2.23	2.74	-0.66	4.25	-4.61	2.10	-417.16	-19.23
1783	4	0.09	0.79	0.52	0.23	-1.12	-0.65	-1.14	-17.88	-288.79	-64.42	1798	2	0.33	0.21	3.33	2.90	-0.64	4.87	7.09	6.48	-415.93	-8.57
1784	1	0.09	0.21	-0.86	0.06	-1.03	0.55	-9.87	-2.36	-351.18	19.97	1798	3	0.33	0.79	4.00	3.21	-0.51	6.73	3.96	7.43	-434.73	-22.44
1784	2	0.35	0.21	-0.69	0.12	-1.03	1.22	5.69	-3.86	-331.89	30.85	1798	4	0.09	0.79	2.45	2.89	-0.52	6.82	-4.71	2.22	-436.52	-27.30
1784	3	0.35	0.79	-0.66	-1.04	-0.91	3.35	5.16	-5.77	-363.65	39.43	1799	1	0.09	0.21	-4.39	-2.87	-0.57	2.46	-3.90	16.20	-396.02	-2.02
1784	4	0.09	0.79	-1.26	-1.20	-0.89	3.42	-9.48	-3.56	-382.09	24.93	1799	2	0.32	0.21	-3.93	-2.81	-0.40	1.91	2.91	10.79	-411.40	3.18
1785	1	0.09	0.21	1.04	0.32	-0.87	1.19	-4.51	-1.06	-361.04	-10.32	1799	3	0.32	0.79	-4.74	-3.12	-0.33	2.46	2.99	14.56	-427.19	16.91
1785	2	0.33	0.21	1.25	0.36	-0.83	1.33	10.25	-1.92	-371.32	0.94	1799	4	0.09	0.79	-5.25	-3.21	-0.50	2.23	-1.50	20.16	-406.57	12.05
1785	3	0.33	0.79	2.62	2.06	-0.71	3.92	9.18	3.83	-397.96	-2.00	1800	1	0.13	0.21	-5.77	-2.98	-0.03	3.13	-2.10	26.13	-388.36	1.09
1785	4	0.09	0.79	1.85	1.67	-0.75	3.12	-3.34	2.25	-390.07	-15.04	1800	2	0.47	0.21	-4.84	-2.90	-0.30	1.61	-1.07	19.96	-380.28	-3.10
1786	1	0.09	0.21	-2.01	-0.80	-0.58	2.28	-5.97	-3.07	-381.02	-14.95	1800	3	0.47	0.79	-5.66	-3.32	-0.33	2.08	-0.34	29.56	-385.82	9.19
1786	2	0.32	0.21	-1.54	-0.73	-0.44	1.74	1.44	-1.65	-376.32	-8.39	1800	4	0.13	0.79	-6.49	-3.39	-0.26	2.55	-1.59	30.19	-345.75	6.92
1786	3	0.32	0.79	-3.04	-2.08	-0.42	1.46	2.21	7.86	-397.96	-5.42	1801	1	0.18	0.21	-24.52	-4.68	-0.84	3.13	0.05	55.60	-292.41	13.93
1786	4	0.09	0.79	-3.48	-2.16	-0.58	2.08	-4.83	11.00	-392.05	-11.12	1801	2	0.67	0.21	-24.03	-3.79	-1.55	1.87	-1.07	69.96	-292.84	8.44
1787	1	0.13	0.21	-3.21	-1.06	0.16	2.54	-4.30	-5.00	-390.46	-6.88	1801	3	0.67	0.79	-24.72	-3.74	-0.48	2.06	-1.96	64.57	-280.10	8.96
1787	2	0.47	0.21	-2.45	-0.88	-0.23	1.95	-2.70	-3.22	-386.31	-18.15	1801	4	0.18	0.79	-25.32	-4.75	-0.30	3.15	-0.53	55.86	-286.78	3.97
1787	3	0.47	0.79	-3.89	-2.25	-0.25	2.17	-2.10	16.65	-384.89	-12.28	1802	1	0.21	0.21	-27.60	-5.85	-0.60	4.93	-3.06	25.66	-849.08	19.76
1787	4	0.13	0.79	-4.80	-2.35	0.12	2.73	-4.53	20.70	-365.96	-6.15	1802	2	0.78	0.21	-25.59	-5.13	-1.06	3.62	-0.40	43.14	-855.92	24.29
1788	1	0.18	0.21	-21.51	-4.37	-1.17	5.38	-1.50	21.62	-310.52	43.71	1802	3	0.78	0.79	-26.10	-5.07	-0.43	3.27	1.92	42.77	-850.37	5.27
1788	2	0.67	0.21	-19.47	-3.80	-2.97	2.43	-4.07	23.71	-331.89	27.69	1802	4	0.21	0.79	-27.84	-5.93	-0.31	4.78	-0.48	26.43	-858.69	6.94
1788	3	0.67	0.79	-22.57	-3.84	-2.35	2.27	-5.22	61.54	-366.57	19.08	1803	1	0.21	0.34	1.15	6.10	-0.12	-0.02	16.19	-199.81	10.12	5.31
1788	4	0.18	0.79	-23.45	-4.61	-1.08	3.30	-2.32	49.07	-299.82	32.96	1803	2	0.79	0.34	1.21	6.12	-0.01	0.42	16.23	-201.09	9.55	7.68
1789	1	0.21	0.21	-26.63	-4.90	-0.65	4.65	-3.75	19.17	-411.70	30.73	1803	3	0.79	1.28	4.61	22.26	0.01	0.09	18.68	-207.82	9.31	8.11
1789	2	0.78	0.21	-23.46	-4.46	-1.25	4.46	-6.92	19.05	-456.96	45.16	1803	4	0.21	1.28	4.49	22.13	-0.01	0.42	18.61	-204.99	9.49	10.76
1789	3	0.78	0.79	-24.81	-4.86	-1.34	4.10	1.19	36.33	-459.10	38.20	1804	1	0.21	0.29	-3.29	-14.82	-0.09	0.36	13.81	-209.06	15.89	3.28
1789	4	0.21	0.79	-27.20	-5.47	-0.81	4.76	-3.77	24.44	-434.50	27.69	1804	2	0.79	0.29	-3.26	-14.81	-0.03	-0.22	13.45	-208.91	15.54	5.01
1790	1	0.21	0.34	0.79	6.10	-0.27	0.29	15.80	-199.30	14.40	0.98	1804	3	0.79	1.09	-0.89	-3.58	-0.01	-0.39	14.96	-205.00	15.63	6.82
1790	2	0.79	0.34	1.01	6.06	-0.21	0.50	16.09	-199.57	11.34	3.17	1804	4	0.21	1.09	-0.94	-3.59	-0.11	0.39	14.91	-204.31	13.15	4.27
1790	3	0.79	1.28	4.36	21.95	-0.06	0.99	17.94	-199.93	9.90	11.38	1805	1	0.21	0.32	-5.58	-25.81	-0.05	0.42	5.04	-214.65	18.92	1.96
1790	4	0.21	1.28	3.89	21.56	-0.10	1.26	17.62	-188.76	10.63	10.73	1805	2	0.79	0.32	-5.56	-25.82	-0.04	-0.36	5.04	-215.34	18.54	2.53
1791	1	0.21	0.29	-3.42	-14.79	-0.15	0.21	13.42	-207.63	17.67	0.69	1805	3	0.79	1.19	-4.52	-20.81	-0.04	-0.23	6.59	-212.00	17.17	3.94
1791	2	0.79	0.29	-3.34	-14.81	-0.12	-0.18	13.36	-207.82	16.59	2.05	1805	4	0.21	1.19	-4.54	-20.80	-0.07	0.30	6.56	-211.17	17.51	2.68
1791	3	0.79	1.09	-1.03	-3.60	-0.15	0.04	14.97	-202.65	14.33	2.82	1806	1	0.21	0.28	-5.42	-24.95	-0.02	0.02	-3.16	-217.72	19.78	0.64
1791	4	0.21	1.09	-1.17	-3.60	-0.13	0.17	14.67	-203.69	15.71	1.17	1806	2	0.79	0.28	-5.40	-24.96	-0.02	0.03	-3.16	-218.39	19.21	0.66
1792	1	0.21	0.32	-5.63	-25.75	-0.07	0.66	5.03	-214.16	19.79	0.80	1806	3	0.79	1.06	-5.79	-26.88	-0.03	-0.25	-1.82	-216.96	19.07	1.66
1792	2	0.79	0.32	-5.60	-25.90	-0.04	-0.37	5.02	-214.34	19.29	1.39	1806	4	0.21	1.06	-5.81	-26.88	-0.04	0.26	-1.97	-216.35	19.46	1.33
1792	3	0.79	1.19	-4.58	-20.79	-0.09	-0.28	6.39	-211.10	17.95	1.82	1807	1	0.36	0.08	0.37	-0.19	-0.11	-14.90	0.14	-103.74	25.39	-17.59
1792	4	0.21	1.19	-4.62	-20.77	-0.10	0.42	6.51	-210.59	18.79	0.83	1807	2	1.35	0.08	-14.43	0.94	2.81	-13.90	11.96	-129.22	-32.65	31.39
1793	1	0.21	0.28	-5.45	-24.91	-0.01	-0.01	-3.97	-217.21	20.48	0.59	1807	3	1.35	0.32	-14.53	0.85	-2.67	-14.98	-12.32	-137.24	-22.44	-32.29
1793	2	0.79	0.28	-5.43	-24.93	-0.02	0.01	-3.12	-217.43	20.05	0.61	1807	4	0.36	0.32	0.40	-0.18	0.22	-16.29	1.32	-102.65	27.42	16.86
1793	3	0.79	1.06	-5.82	-26.86	-0.04	-0.26	-1.79	-216.99	19.79	1.03	1808	1	0.32	0.08	16.82	0.18	-0.02	-9.33	0.29	-140.40	21.41	-13.50
1793	4	0.21	1.06	-5.84	-26.85	-0.04	0.24	-1.82	-215.85	20.23	0.71	1808	2	1.19	0.08	8.82	-0.50	-0.59	-8.55	-4.61	-137.50	-13.69	12.41
1794	1	0.30	0.25	-2.33	0.65	-1.50	0.79	-2.21	-11.91	-280.66	-30.67	1808	3	1.19	0.32	8.82	-0.48	0.49	-8.78	2.77	-137.94	-18.52	-13.32
1794	2	1.10	0.37	-2.53	2.22	-1.87	-0.54	7.03	-13.08	-279.37	-12.74	1808	4	0.32	0.32	16.78	0.17	0.06	-10.05	1.36	-158.91	12.62	12.15
1794	3	1.10	0.95	-6.71	2.81	-1.76	-5.65	-10.37	-43.72	-262.30	10.53	1809	1	0.28	0.08	-20.88	0.01	0.36	-3.44	-0.19	-146.96	-7.44	-13.96
1794	4	0.30	0.83	-1.79	1.37	-0.29	1.31	-1.45	-18.16	-277.56	-16.05	1809	2	1.06	0.08	-24.03	-0.03	0.01	-4.29	-0.57	-149.28	0.32	11.99
1795	1	0.23	0.21	-0.99	-0.42	-1.18	-1.55	-3.56	-60.89	-217.75	62.67	1809	3	1.06	0.32	-23.96	-0.02	0.03	-4.54	-1.09	-146.38	0.22	-13.77
1795	2	0.86	0.21	-1.49	-0.46	-0.75	-0.49	-0.29	-50.00	-173.43	-14.09	1809	4	0.28	0.32	-20.94	0.01	-0.21	-3.60	2.24	-150.04	-7.63	14.06
1795	3	0.86	0.79	-1.97	0.34	-0.64	0.33	7.27	-23.32	-140.54	-96.70	1810	1	0.17	0.12	27.53	-0.92	0.26	-6.47	1.04	-151.24	-25.83	21.49
1795	4	0.23	0.79	-0.74	-0.34	-0.49	-1.32	-0.67	-18.93	-176.34	141.00	1810	2	0.62	0.12	22.54	0.25	0.35	-2.92	-0.52	-119.40	-22.52	9.02
1796	1	0.09	0.21	0.34	0.80	-0.27	0.56	-3.68	-6.91	-365.51	-78.79	1810	3	0.53	0.45	23.84	0.16	1.64	-8.25	0.44	-106.14	-47.42	1.71
1796	2	0.33	0.21	0.32	0.97	-0.59	1.52	6.47	0.59	-371.80	-57.39	1810	4	0.14	0.44	26.17	-0.01	1.32	-6.69	4.05	-114.12	-13.62	25.17
1796	3	0.33	0.79	-0.74	1.04	-0.25	0.84	1.76	1.95	-406.13	-49.75	1811	1	0.12	0.12	18.43	0.96	0.30	-8.74	0.33	-99.15	-119.79	0.34

1811	2	0.58	0.13	13.34	1.70	0.14	-7.81	-1.23	-65.40	-207.60	-7.34
1811	3	0.37	0.50	15.37	1.37	1.62	-6.72	-2.79	-67.04	-158.46	-34.57
1811	4	-0.02	0.47	20.00	0.73	1.72	-8.91	1.17	-92.40	-84.29	-15.68
1812	1	0.08	0.14	10.20	1.86	-0.02	-7.36	0.23	-40.55	-267.28	-5.23
1812	2	0.53	0.16	6.86	1.80	-0.23	-5.99	-2.65	-12.00	-338.19	-6.00
1812	3	0.19	0.59	8.75	1.98	0.83	-3.92	-0.20	-12.71	-294.61	-29.47
1812	4	-0.18	0.53	12.05	1.58	1.28	-6.36	-1.33	-42.99	-222.81	-36.58
1813	1	0.13	0.12	28.78	0.15	1.12	-6.84	7.11	-101.08	-18.41	18.04
1813	2	0.47	0.12	24.75	0.64	1.38	-10.80	3.32	-92.34	-22.67	4.60
1813	3	0.39	0.45	27.37	0.98	2.93	-9.02	1.87	-50.01	-4.90	-1.75
1813	4	0.12	0.44	31.65	0.62	1.11	-17.12	5.65	-65.79	-3.26	11.06
1814	1	0.10	0.13	21.46	0.73	-0.16	-12.94	3.27	-92.71	-45.74	-13.43
1814	2	0.43	0.14	16.92	0.77	0.03	-13.76	-0.27	-80.05	-97.90	-48.48
1814	3	0.27	0.53	19.23	0.97	2.86	-0.61	0.44	-46.83	-31.01	-20.47
1814	4	0.00	0.48	24.28	0.79	1.99	-5.01	3.32	-42.29	-5.84	-5.36
1815	1	0.06	0.16	13.96	0.84	-0.91	-14.35	-0.37	-80.29	-143.14	-81.85
1815	2	0.39	0.18	10.28	0.70	-0.60	-12.50	-4.60	-61.47	-226.13	-105.66
1815	3	0.14	0.67	12.09	0.59	1.94	0.40	0.88	-88.48	-102.42	-92.57
1815	4	-0.12	0.59	16.30	0.56	1.78	0.03	1.58	-65.21	-45.75	-49.84
1816	1	0.16	0.12	-30.19	1.56	0.06	-3.34	-0.82	-134.84	-29.63	-11.18
1816	2	0.61	0.12	-31.51	1.83	-0.27	-0.91	-0.94	-96.16	-22.40	-64.30
1816	3	0.52	0.45	-32.34	1.85	-0.24	-1.93	-3.52	-120.50	-13.01	-34.44
1816	4	0.14	0.44	-30.62	1.29	0.79	-5.40	-2.73	-117.51	-25.09	-23.64
1817	1	0.12	0.12	-31.05	1.38	-0.52	1.09	-0.39	-146.24	-3.42	1.17
1817	2	0.57	0.13	-29.16	-0.14	-0.61	1.25	-1.74	-123.60	-138.21	-12.83
1817	3	0.36	0.50	-30.80	1.00	-2.73	-1.76	1.24	-111.89	-88.13	-21.99
1817	4	-0.01	0.47	-32.03	1.81	-1.30	-2.42	-2.12	-122.08	-21.99	-24.27
1818	1	0.08	0.14	-27.65	-1.03	-0.57	2.14	-1.23	-99.17	-182.94	-20.29
1818	2	0.52	0.16	-26.92	-2.36	-0.65	0.79	1.66	-77.17	-245.33	-37.99
1818	3	0.19	0.58	-27.13	-2.73	-3.29	-7.58	-4.00	-85.10	-181.29	-42.30
1818	4	-0.18	0.53	-28.79	-0.18	-3.10	-6.24	-0.82	-98.28	-125.62	-35.21
1819	1	0.13	0.12	-30.91	0.06	3.14	-2.89	-6.58	-95.43	-8.79	-23.99
1819	2	0.46	0.12	-32.80	1.17	2.50	3.17	-7.35	-115.97	-8.92	-19.63
1819	3	0.39	0.45	-35.25	-0.12	-0.36	-21.68	-9.45	-92.76	-8.75	-17.36
1819	4	0.12	0.44	-33.58	-0.58	2.04	-24.20	-5.18	-85.55	-3.41	-9.44
1820	1	0.10	0.13	-32.90	1.35	4.37	8.84	-5.38	-118.94	-19.67	-22.31
1820	2	0.43	0.14	-32.24	2.33	3.20	13.17	-4.17	-110.46	-49.14	-16.96
1820	3	0.27	0.53	-34.49	0.48	-1.93	-30.56	-12.44	-92.37	-14.51	-25.41
1820	4	0.00	0.48	-35.34	0.16	0.49	-36.45	-10.60	-96.76	-3.61	-12.87
1821	1	0.06	0.16	-30.84	1.91	4.40	19.50	-0.56	-110.44	-79.79	-35.90
1821	2	0.39	0.18	-28.72	1.96	2.78	17.21	6.52	-104.00	-122.47	-57.32
1821	3	0.14	0.66	-31.00	1.52	-3.07	-32.79	-17.67	-84.00	-50.62	-47.74
1821	4	-0.11	0.59	-33.49	1.40	-0.77	-38.82	-13.69	-89.23	-21.59	-25.59
1822	1	0.36	0.12	-3.52	-26.06	1.61	-0.47	1.83	-255.92	-80.28	44.98
1822	2	0.90	0.10	-3.75	-24.46	3.18	2.96	-0.40	-268.56	-59.32	65.35
1822	3	1.21	0.37	-2.94	-24.26	4.24	-1.41	1.65	-216.64	-57.07	48.08
1822	4	0.76	0.46	-2.22	-24.56	2.71	-1.83	2.06	-209.52	-77.42	45.86
1823	1	0.30	0.09	-3.69	-22.81	4.50	1.96	4.76	-217.32	-76.55	41.14
1823	2	0.85	0.07	-4.13	-19.21	5.77	5.13	2.65	-277.89	-59.86	-13.56
1823	3	1.01	0.27	-4.37	-17.37	7.70	6.11	5.27	-296.55	-45.67	5.88
1823	4	0.54	0.32	-2.50	-21.99	5.60	3.47	-0.36	-238.59	-51.71	40.57
1824	1	0.25	0.07	-5.45	-15.21	5.64	4.81	6.43	-346.80	-46.59	-35.05
1824	2	0.80	0.06	-6.54	-10.63	2.75	-1.59	9.01	-401.92	-58.14	-52.77
1824	3	0.83	0.22	-7.89	-7.62	3.11	-0.56	9.83	-438.09	-50.08	-25.37
1824	4	0.35	0.24	-6.07	-11.72	6.94	4.09	7.73	-365.81	-34.67	-8.11
1825	1	0.27	0.16	-4.97	-24.24	12.39	13.67	-6.50	-194.59	-42.09	20.65
1825	2	0.66	0.13	-6.10	-19.45	13.72	17.89	0.06	-216.74	-34.69	11.67
1825	3	0.89	0.47	-10.56	-11.90	12.48	-40.65	16.91	-182.87	-17.03	43.53
1825	4	0.57	0.59	-7.73	-18.21	14.01	-29.34	21.16	-123.27	-30.77	44.26
1826	1	0.24	0.10	-5.92	-18.07	13.06	15.24	8.33	-244.47	-29.05	15.10
1826	2	0.65	0.08	-8.36	-10.61	11.19	4.53	6.94	-308.24	-36.37	-12.0
1826	3	0.78	0.30	-11.30	-3.40	7.26	-40.35	12.10	-347.26	-18.93	38.5
1826	4	0.44	0.37	-9.49	-8.95	10.70	-41.95	16.67	-225.69	-29.78	58.31
1827	1	0.20	0.07	-8.25	-7.96	7.87	2.39	12.26	-385.08	-20.87	-1.30
1827	2	0.62	0.06	-9.52	-4.25	2.62	-1.57	9.71	-175.26	-47.63	-43.01
1827	3	0.64	0.23	-10.14	-0.65	0.73	-10.52	4.81	-361.08	-20.19	-15.91
1827	4	0.29	0.25	-10.28	-3.35	5.31	-31.67	11.39	-422.24	-17.68	56.76
1828	1	0.20	0.06	-6.35	-10.62	-1.22	2.49	9.16	-414.75	-78.75	-58.99
1828	2	0.75	0.07	-4.86	-14.68	-4.21	-4.86	6.63	-392.10	-65.27	-49.86
1828	3	0.65	0.24	-5.59	-11.14	-5.57	-3.90	8.21	-432.26	-72.45	-78.02
1828	4	0.17	0.22	-7.69	-7.39	-1.59	1.23	9.76	-464.94	-69.03	-63.35
1829	1	0.15	0.07	-3.29	-18.58	-4.49	-5.22	2.68	-350.60	-38.49	-30.36
1829	2	0.70	0.09	-2.78	-22.17	-3.46	-2.46	4.55	-312.65	2.27	-18.83
1829	3	0.46	0.32	-1.70	-21.30	-4.79	-3.76	-0.49	-328.34	-22.64	-45.89
1829	4	-0.01	0.27	-3.66	-16.65	-6.45	-5.89	5.48	-384.10	-58.63	-61.13
1830	1	0.10	0.10	-2.98	-23.87	-2.34	-3.73	-1.13	-287.77	25.94	-11.01
1830	2	0.64	0.12	-3.08	-25.50	-0.99	-0.46	1.24	-268.83	48.51	-3.19
1830	3	0.24	0.46	-1.67	-24.00	-1.96	1.26	2.45	-258.98	21.72	-26.25
1830	4	-0.21	0.37	-2.18	-23.63	-3.84	0.81	1.46	-290.10	2.51	-35.39
1831	1	0.16	0.06	-9.19	-4.24	-1.14	1.49	9.73	-518.96	-46.57	-35.02
1831	2	0.58	0.07	-7.61	-7.47	-6.45	-2.28	12.51	-488.20	-69.02	-70.15
1831	3	0.49	0.25	-9.41	-3.07	-4.53	25.52	10.77	-592.35	-77.77	-103.50
1831	4	0.14	0.23	-9.83	-0.65	-0.04	3.19	4.54	-614.37	-16.45	-13.98
1832	1	0.12	0.08	-7.36	-10.19	-9.88	-3.90	7.22	-427.15	-58.80	-38.25
1832	2	0.53	0.10	-4.87	-17.52	-11.94	-14.94	8.81	-356.79	-36.46	-31.47
1832	3	0.33	0.37	-8.25	-8.45	-9.78	39.13	16.13	-416.42	-56.62	-124.77
1832	4	-0.01	0.30	-10.11	-3.08	-6.41	35.97	11.51	-553.70	-42.29	-93.61
1833	1	0.07	0.13	-4.95	-19.11	-12.82	-17.79	0.15	-308.31	-14.52	9.40
1833	2	0.46	0.16	-4.03	-23.96	-11.67	-14.22	-6.54	-250.74	7.71	14.39
1833	3	0.16	0.59	-6.68	-17.77	-13.20	28.17	20.93	-237.32	-39.76	-75.18
1833	4	-0.16	0.47	-9.23	-11.46	-11.65	38.66	16.57	-351.54	-20.36	-87.26
1834	1	0.29	0.16	-25.49	-2.13	0.10	-1.08	2.59	52.16	-251.33	3.47
1834	2	0.74	0.14	-27.24	-0.94	0.04	-2.66	-0.67	40.82	-208.54	10.07
1834	3	1.00	0.53	-28.36	0.04	2.51	5.71	0.08	13.61	-174.43	35.87
1834	4	0.63	0.58	-26.59	-2.34	2.61	7.15	-3.69	27.77	-227.25	24.31
1835	1	0.25	0.13	-28.84	-0.12	0.06	-1.80	-1.25	20.71	-151.01	18.90
1835	2	0.69	0.12	-30.91	1.31	0.02	-1.64	-0.04	3.14	-79.67	26.34
1835	3	0.83	0.47	-31.90	1.87	0.31	1.87	-1.89	-14.90	-66.28	42.91
1835	4	0.45	0.50	-30.48	1.11	2.20	1.42	2.42	-1.20	-105.29	41.19
1836	1	0.20	0.12	-31.56	1.69	-0.21	0.20	-0.60	-7.85	-78.07	36.20
1836	2	0.65	0.12	-30.53	1.34	-0.53	2.58	-0.74	-16.54	0.22	44.39
1836	3	0.68	0.44	-30.97	1.12	-1.28	4.66	-2.67	-18.24	-1.13	44.21
1836	4	0.29	0.45	-32.42	1.80	-0.27	1.26	-2.14	-19.56	-20.69	44.41
1837	1	0.22	0.18	-27.90	2.12	-3.46	-12.06	5.22	-24.35	-1.67	89.61
1837	2	0.54	0.16	-30.16	2.00	-4.56	-20.24	8.09	-45.82	-111.52	83.26
1837	3	0.72	0.59	-32.70	1.58	0.31	38.61	-13.21	-49.56	-49.49	60.85
1837	4	0.46	0.66	-29.99	1.79	2.42	32.31	-16.94	-108.43	-90.77	56.37
1838	1	0.19	0.14	-31.79	2.45	-3.77	-14.22	-3.43	-63.45	-67.26	61.1
1838	2	0.52	0.13	-32.70	1.37	-4.91	-10.14	-5.42	-48.91	-81.89	47.19
1838	3	0.62	0.48	-35.12	0.24	-0.36	37.04	-10.45	-48.69	-77.26	24.16
1838	4	0.35	0.53	-33.96	0.67	1.51	38.52	-12.16	-73.24	-25.77	40.73
1839	1	0.16	0.12	-32.87	1.18	-2.07	-4.45	-6.87	-45.83	-26.07	49.75
1839	2	0.50	0.12	-31.26	-0.10	-2.76	1.49	-6.53	-18.46	2.56	36.50
1839	3	0.51	0.44	-33.99	-0.62	-2.42	25.40	-5.15	3.12	1.59	16.15
1839	4	0.23	0.45	-35.31	-0.06	0.02	30.39	-9.52	-27.73	-0.45	19.10
1840	1	0.17	0.12	-28.08	0.60	-0.72	5.62	-1.67	-19.24	7.50	46.30

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1869	2	0.79	0.32	-5.54	-25.81	-0.02	-0.32	5.03	-217.25	18.18	3.47
1869	3	0.79	1.19	-4.53	-20.77	0.00	-0.28	6.55	-214.21	17.36	5.63
1869	4	0.21	1.19	-4.52	-20.80	-0.02	0.25	6.60	-212.94	17.14	4.78
1870	1	0.21	0.28	-5.39	-24.96	-0.03	0.04	-3.17	-218.93	19.01	0.68
1870	2	0.79	0.28	-5.36	-24.96	-0.03	0.05	-3.13	-219.89	18.55	0.67
1870	3	0.79	1.06	-5.75	-26.88	-0.03	-0.25	-1.79	-219.73	18.44	2.14
1870	4	0.21	1.06	-5.77	-26.88	-0.03	0.29	-1.78	-217.61	18.81	1.93
1871	1	0.30	0.21	-2.21	-0.08	1.47	-2.76	3.25	-7.17	-373.56	-10.17
1871	2	1.10	0.21	-1.25	-0.11	1.01	7.94	-6.24	4.67	-271.73	-2.76
1871	3	1.10	0.79	-0.66	-1.13	1.46	-0.54	-4.13	1.93	-283.17	-8.45
1871	4	0.30	0.79	-1.72	-0.74	1.22	-0.13	2.71	6.12	-358.27	-1.65
1872	1	0.23	0.21	-0.63	-0.37	0.93	-0.48	0.19	4.62	-459.62	37.58
1872	2	0.86	0.21	-1.22	0.08	0.43	0.39	-4.29	6.38	-412.53	25.97
1872	3	0.86	0.79	-1.52	-0.48	0.59	-0.33	-3.44	4.34	-387.12	17.35
1872	4	0.23	0.79	-1.02	-0.61	1.18	-0.91	0.57	-0.55	-422.47	43.36
1873	1	0.09	0.21	0.06	0.68	0.79	-1.74	2.28	-7.53	-482.23	-85.44
1873	2	0.33	0.21	-0.42	0.63	0.56	-1.08	-3.82	-4.62	-465.10	-84.16
1873	3	0.33	0.79	0.42	0.82	0.75	-0.27	-6.56	-0.53	-455.93	-71.31
1873	4	0.09	0.79	0.78	0.68	1.35	-0.23	1.29	3.34	-446.51	-58.84
1874	1	0.09	0.21	-1.06	-1.63	0.80	4.81	5.69	-3.88	-476.03	73.24
1874	2	0.35	0.21	0.13	-1.46	0.81	4.91	-6.59	-9.00	-466.01	77.36
1874	3	0.35	0.79	-0.50	-1.32	1.07	1.95	-7.20	-5.30	-466.84	85.74
1874	4	0.09	0.79	-1.08	-1.53	1.05	2.64	9.07	0.99	-479.89	82.75
1875	1	0.09	0.21	1.95	2.27	0.72	6.67	5.92	-0.59	-469.26	-71.72
1875	2	0.33	0.21	3.41	2.52	0.72	6.52	-6.21	6.94	-463.56	-67.69
1875	3	0.33	0.79	2.04	1.75	0.95	3.52	-10.22	0.50	-476.52	-92.37
1875	4	0.09	0.79	1.46	1.60	0.93	2.21	5.35	-1.46	-476.89	-64.14
1876	1	0.09	0.21	-4.35	-2.65	0.46	1.75	3.28	24.17	-446.65	57.33
1876	2	0.32	0.21	-4.02	-2.55	0.79	1.97	-1.95	17.21	-460.44	64.42
1876	3	0.32	0.79	-2.38	-1.70	0.42	0.17	-2.46	10.15	-477.87	77.72
1876	4	0.09	0.79	-2.59	-1.68	0.56	1.38	5.62	8.59	-456.46	67.10
1877	1	0.13	0.21	-5.14	-2.89	-0.81	2.01	4.11	45.67	-389.61	33.48
1877	2	0.47	0.21	-4.56	-2.76	0.05	1.46	2.40	32.46	-427.45	49.17
1877	3	0.47	0.79	-2.97	-1.65	0.06	0.88	3.77	14.90	-445.27	70.22
1877	4	0.13	0.79	-3.40	-1.70	-0.56	2.01	4.69	20.79	-426.09	51.82
1878	1	0.18	0.21	-23.56	-4.36	0.92	3.24	3.56	15.86	-388.52	-12.52
1878	2	0.67	0.21	-22.71	-3.60	2.20	2.27	0.19	12.48	-398.43	2.19
1878	3	0.67	0.79	-19.65	-3.54	2.92	2.48	3.06	-11.53	-336.49	15.72
1878	4	0.18	0.79	-21.68	-4.12	1.01	5.50	1.69	-3.80	-383.97	-2.92
1879	1	0.21	0.21	-27.00	-4.38	0.55	3.48	3.88	20.76	-414.31	-9.97
1879	2	0.78	0.21	-24.96	-3.85	0.94	3.85	-0.83	13.58	-458.29	-19.15
1879	3	0.78	0.79	-23.46	-3.37	0.96	3.90	1.70	9.94	-460.92	-7.21
1879	4	0.21	0.79	-26.41	-3.69	0.31	3.71	2.49	14.93	-396.24	-3.49
1880	1	0.21	0.34	0.83	6.14	0.24	-0.40	15.95	-201.63	16.25	15.39
1880	2	0.79	0.34	0.60	6.16	0.22	-0.39	15.34	-204.09	16.93	16.59
1880	3	0.79	1.28	3.57	21.44	0.12	-1.23	16.96	-184.38	11.86	11.19
1880	4	0.21	1.28	4.05	21.78	0.09	-1.15	17.68	-193.27	11.20	7.01
1881	1	0.21	0.29	-3.35	-14.72	0.05	0.34	13.28	-213.15	17.14	8.22
1881	2	0.79	0.29	-3.38	-14.67	0.01	-0.16	13.51	-215.29	17.53	8.30
1881	3	0.79	1.09	-1.24	-3.44	0.09	0.11	14.90	-210.64	17.65	11.93
1881	4	0.21	1.09	-1.12	-3.51	0.13	-0.19	14.72	-209.23	16.11	10.85
1882	1	0.21	0.32	-5.53	-25.79	-0.03	0.40	8.07	-196.21	18.04	3.65
1882	2	0.79	0.32	-5.51	-25.77	-0.04	-0.01	8.02	-219.81	17.54	3.67
1882	3	0.79	1.19	-4.53	-20.72	-0.01	-0.40	6.41	-217.17	17.77	6.25
1882	4	0.21	1.19	-4.54	-20.75	0.00	0.35	6.63	-216.65	17.85	6.00
1883	1	0.21	0.28	-5.35	-24.96	-0.03	0.05	-0.16	-220.73	18.17	0.63
1883	2	0.79	0.28	-5.31	-24.96	-0.04	0.06	-2.19	-221.89	17.53	0.56
1883	3	0.79	1.06	-5.71	-26.87	-0.04	-0.17	-1.77	-220.00	17.59	2.30
1883	4	0.21	1.06	-5.74	-26.87	-0.04	0.29	-1.79	-219.51	18.15	2.25
1884	1	0.30	0.21	-1.36	-1.04	0.93	1.54	0.18	6.75	-343.17	-0.30
1884	2	1.10	0.21	-0.27	-1.46	0.66	0.79	-2.66	-1.94	-290.22	-5.[illegible]
1884	3	1.10	0.79	-0.35	-1.75	0.40	0.41	-1.04	2.22	-295.18	-3.[illegible]
1884	4	0.30	0.79	-1.34	-1.29	0.53	0.42	0.37	3.59	-332.07	2.31
1885	1	0.23	0.21	-1.47	-0.44	1.06	-0.42	-0.09	0.85	-403.79	42.31
1885	2	0.86	0.21	-1.81	-0.83	0.66	-1.76	-0.48	4.01	-376.62	12.10
1885	3	0.86	0.79	-1.84	-0.96	0.36	-0.04	-0.87	5.18	-387.01	10.17
1885	4	0.23	0.79	-2.06	-0.47	0.61	-0.59	-0.62	8.28	-380.07	37.62
1886	1	0.09	0.21	1.34	0.25	1.38	-2.18	0.95	-2.54	-417.90	-56.69
1886	2	0.33	0.21	1.00	0.05	0.83	-2.22	-9.07	-8.44	-439.30	-75.13
1886	3	0.33	0.79	1.84	-0.28	0.46	-3.50	-2.92	2.36	-381.29	-54.37
1886	4	0.09	0.79	2.03	-0.06	0.82	-2.38	0.97	0.37	-385.66	-49.57
1887	1	0.09	0.21	-0.78	-0.31	1.11	0.12	12.52	-0.68	-456.29	99.33
1887	2	0.35	0.21	-0.82	-0.36	1.17	-0.26	-4.91	-4.99	-462.75	91.98
1887	3	0.35	0.79	-1.34	0.87	0.77	-3.56	-5.19	-1.96	-399.82	79.65
1887	4	0.09	0.79	-0.38	1.00	0.77	-4.82	6.67	-17.73	-473.13	116.70
1888	1	0.09	0.21	0.75	0.61	0.94	-0.85	5.34	21.73	-505.05	-99.04
1888	2	0.33	0.21	0.67	0.57	0.90	-0.73	-10.57	19.76	-506.76	-70.44
1888	3	0.33	0.79	-1.09	-1.27	0.60	-4.93	-8.84	-9.32	-556.47	12.46
1888	4	0.09	0.79	-0.16	-1.09	0.66	-4.04	1.55	-0.61	-546.62	-152.03
1889	1	0.09	0.21	-1.01	-0.31	0.40	1.00	6.79	-15.91	-459.31	71.19
1889	2	0.32	0.21	-0.72	-0.28	0.37	0.97	1.04	-6.69	-461.49	67.55
1889	3	0.32	0.79	1.22	1.51	0.25	2.66	-0.62	-41.57	-492.01	28.02
1889	4	0.09	0.79	0.60	1.35	0.29	2.40	4.15	-41.33	-434.67	52.70
1890	1	0.13	0.21	-2.06	-0.52	-0.50	1.63	6.99	-16.62	-409.58	63.64
1890	2	0.47	0.21	-1.45	-0.33	-0.01	2.38	2.45	-20.46	-457.91	69.40
1890	3	0.47	0.79	-0.03	1.24	0.02	3.21	2.99	-49.23	-431.79	61.56
1890	4	0.13	0.79	-0.84	0.90	-0.19	1.97	3.39	-15.66	-476.[illegible]	66.94
1891	1	0.18	0.21	-20.00	-3.96	0.81	3.48	1.39	-30.33	-[illegible]	15.79
1891	2	0.67	0.21	-17.00	-4.30	2.62	6.73	4.05	-52.79	-[illegible]	32.23
1891	3	0.67	0.79	-14.14	-5.42	0.56	7.01	3.76	-60.96	-[illegible]	51.95
1891	4	0.18	0.79	-18.90	-4.16	-0.15	4.21	2.61	-40.71	-[illegible]	30.72
1892	1	0.21	0.21	-25.89	-3.16	0.68	4.14	1.20	10.74	-[illegible]	9.54
1892	2	0.78	0.21	-22.60	-3.24	0.39	5.50	1.24	-11.42	-[illegible]	[illegible]
1892	3	0.78	0.79	-21.95	-3.06	-1.05	5.42	0.17	-17.47	-[illegible]	34.88
1892	4	0.21	0.79	-25.71	-3.03	-0.55	4.56	-2.42	6.86	-[illegible]	34.69
1893	1	0.21	0.34	0.47	6.26	0.17	0.56	15.48	-[illegible]	16.20	15.87
1893	2	0.79	0.34	0.44	6.54	0.07	-0.58	15.73	-[illegible]	14.91	17.17
1893	3	0.79	1.28	3.23	21.02	0.19	-0.69	16.95	-[illegible]	11.30	22.39
1893	4	0.21	1.28	3.44	21.24	0.14	-0.57	16.31	-[illegible]	11.41	19.62
1894	1	0.21	0.29	-3.39	-14.66	-0.02	0.16	13.31	-[illegible]	17.39	9.07
1894	2	0.79	0.29	-3.34	-14.72	-0.06	0.19	13.09	-[illegible]	17.06	8.16
1894	3	0.79	1.09	-1.28	-3.37	-0.19	1.26	14.92	-[illegible]	17.27	12.13
1894	4	0.21	1.09	-1.26	-3.40	0.05	-0.52	14.54	-[illegible]	16.15	11.04
1895	1	0.21	0.32	-5.47	-25.75	-0.06	0.41	8.01	-[illegible]	17.03	3.13
1895	2	0.79	0.32	-5.40	-25.76	-0.08	0.09	8.06	-[illegible]	16.01	3.60
1895	3	0.79	1.19	-4.46	-20.62	-0.11	-0.69	6.72	-[illegible]	16.04	5.32
1895	4	0.21	1.19	-4.55	-20.69	-0.04	0.66	6.54	-[illegible]	17.24	6.17
1896	1	0.21	0.28	-5.28	-24.96	-0.05	0.09	-2.15	-[illegible]	[illegible]	[illegible]
1896	2	0.79	0.28	-5.23	-24.96	-0.09	0.71	-1.89	-[illegible]	[illegible]	0.48
1896	3	0.79	1.06	-5.62	-26.87	-0.07	0.02	-1.74	-[illegible]	[illegible]	[illegible]
1896	4	0.21	1.06	-5.68	-26.87	-0.08	0.21	-1.79	-[illegible]	[illegible]	[illegible]
1897	1	0.30	0.21	-1.33	-1.29	0.16	0.35	0.04	-[illegible]	[illegible]	[illegible]
1897	2	1.10	0.21	-0.34	-1.74	0.05	0.84	-0.02	-[illegible]	[illegible]	[illegible]
1897	3	1.10	0.79	-0.26	-1.45	-0.20	0.67	1.41	-[illegible]	[illegible]	[illegible]
1897	4	0.30	0.79	-1.33	-1.04	-0.22	1.03	0.73	-[illegible]	[illegible]	[illegible]
1898	1	0.23	0.21	-2.28	-0.65	0.21	-0.42	-0.47	-[illegible]	[illegible]	[illegible]

1898	2	0.86	0.21	-1.86	-1.01	0.17	0.47	0.31	7.19	-344.15	16.01	1912	4	0.09	0.79	1.48	-0.15	-0.64	-1.31	-2.29	-2.34	-358.96	-46.
1898	3	0.86	0.79	-1.89	-0.83	-0.04	-0.36	0.24	5.02	-325.05	27.71	1913	1	0.09	0.21	0.07	1.00	-0.65	-6.47	-6.39	-6.11	-329.95	41.
1898	4	0.23	0.79	-2.24	-0.61	-0.15	0.48	0.28	4.15	-342.80	41.76	1913	2	0.35	0.21	-1.46	0.74	-0.65	-5.53	[illegible]	4.25	-338.72	56.77
1899	1	0.09	0.21	2.51	0.36	0.30	0.29	1.19	15.72	-366.65	-50.05	1913	3	0.35	0.79	-0.82	0.01	-0.78	-2.29	3.90	-0.16	-348.67	47.76
1899	2	0.33	0.21	2.41	0.30	0.17	-0.57	0.18	14.85	-373.58	-61.56	1913	4	0.09	0.79	-0.12	0.14	-0.76	-2.42	-7.45	-3.73	-358.69	35.27
1899	3	0.33	0.79	2.54	0.29	-0.07	-0.62	-0.82	16.24	-332.50	-65.60	1914	1	0.09	0.21	-0.73	-1.17	-0.60	-2.74	-2.15	-5.11	-337.27	-14.80
1899	4	0.09	0.79	2.64	0.37	-0.13	-0.28	-1.65	18.82	-339.69	-62.76	1914	2	0.33	0.21	-1.41	-1.27	-0.52	-3.06	7.09	-9.49	-347.66	-35.21
1900	1	0.09	0.21	-0.39	1.04	0.36	-7.49	2.08	17.55	-286.[illegible]	104.39	1914	3	0.33	0.79	-0.26	0.16	-0.69	-0.23	8.15	-2.65	-381.[illegible]	-19.18
1900	2	0.35	0.21	-1.84	0.65	0.37	-6.73	-4.71	9.75	-358.[illegible]	73.72	1914	4	0.09	0.79	-0.16	0.17	-0.68	-0.67	-2.22	-1.90	-373.[illegible]	-25.68
1900	3	0.35	0.79	-1.89	0.66	-0.22	-8.34	1.74	12.85	-333.[illegible]	66.32	1915	1	0.09	0.21	0.44	0.99	-0.34	3.76	-4.41	-14.72	-376.[illegible]	-7.28
1900	4	0.09	0.79	-0.13	1.15	-0.22	-8.76	-0.62	0.50	-321.[illegible]	63.50	1915	2	0.32	0.21	1.32	1.16	-0.25	7.47	-0.28	-17.56	-352.98	7.47
1901	1	0.09	0.21	-0.68	-2.19	0.25	-5.32	0.92	-15.75	-219.[illegible]	-133.43	1915	3	0.32	0.79	0.05	-0.25	-0.76	2.38	1.34	-2.75	-374.82	9.31
1901	2	0.33	0.21	-1.85	-2.43	0.22	-6.39	-3.73	-15.05	-225.[illegible]	30.60	1915	4	0.09	0.79	-0.63	-0.33	-0.51	2.69	-4.36	-1.84	-388.63	0.57
1901	3	0.33	0.79	-1.96	-2.31	-0.29	-5.71	4.56	-41.17	-293.[illegible]	-16.36	1916	1	0.13	0.21	-1.71	0.65	0.09	3.75	-[illegible]	-19.29	-428.16	7.07
1901	4	0.09	0.79	-0.98	-2.09	-0.28	-4.69	-0.56	-34.63	-284.[illegible]	-91.45	1916	2	0.47	0.21	-0.37	0.88	-0.14	3.62	-2.21	-15.93	-402.[illegible]	-0.67
1902	1	0.09	0.21	1.25	1.87	0.10	2.06	1.29	-35.61	-392.[illegible]	26.31	1916	3	0.47	0.79	-1.39	-0.42	-0.20	3.66	-2.15	-8.21	-390.53	-1.13
1902	2	0.32	0.21	2.02	2.01	0.07	3.07	-0.60	-10.38	-382.[illegible]	-3.17	1916	4	0.13	0.79	-2.54	-0.57	-0.02	4.14	-3.67	-8.22	-400.42	-1.23
1902	3	0.32	0.79	2.05	1.97	-0.19	4.19	1.38	-24.26	-350.[illegible]	8.76	1917	1	0.18	0.21	-22.37	-5.32	-2.40	5.98	-0.86	-109.67	-218.25	74.36
1902	4	0.09	0.79	1.14	1.74	-0.24	3.03	-2.13	-24.42	-327.79	2.56	1917	2	0.67	0.21	-20.20	-4.48	-3.95	2.97	-4.89	-76.82	-291.03	33.89
1903	1	0.13	0.21	-0.49	1.51	0.02	2.13	0.26	-67.65	-476.90	45.23	1917	3	0.67	0.79	-23.30	-4.65	-3.07	3.11	-5.65	-180.71	-231.52	3.95
1903	2	0.47	0.21	0.46	1.78	0.01	3.61	0.33	-49.92	-431.52	31.03	1917	4	0.18	0.79	-24.48	-5.84	-1.95	4.38	-1.34	-153.75	257.27	6.02
1903	3	0.47	0.79	0.27	1.61	-0.08	4.25	-1.19	-32.37	-397.58	0.44	1918	1	0.21	0.21	-28.50	-9.38	-2.99	8.79	-23.23	-177.02	506.89	123.77
1903	4	0.13	0.79	-0.99	1.37	0.14	2.79	-2.22	-45.98	-452.71	14.55	1918	2	0.78	0.21	-25.08	-8.30	-4.78	6.61	-0.36	-155.94	-448.[illegible]	114.56
1903	4	0.13	0.79	-0.99	1.37	0.14	4.83	-2.14	-43.74	-327.62	77.73	1918	3	0.78	0.79	-26.22	-10.25	-4.04	7.49	6.10	-270.29	-[illegible]	1.91
1904	1	0.18	0.21	-19.08	-4.28	-1.18	6.89	-3.62	-58.36	-369.99	66.77	1918	4	0.21	0.79	-31.47	-13.27	-2.80	19.18	-11.67	-408.80	-[illegible]	19.93
1904	2	0.67	0.21	-14.34	-5.62	-1.85	6.61	-5.65	-56.77	-330.01	55.43	1919	1	0.21	0.34	2.36	6.78	-0.79	-0.01	19.31	-281.48	10.[illegible]	11.27
1904	3	0.67	0.79	-17.53	-4.98	-3.85	6.61	-5.65	-68.09	-316.09	91.38	1919	2	0.79	0.34	2.97	5.96	0.09	-1.16	19.22	-263.46	[illegible]	17.40
1904	4	0.18	0.79	-20.55	-4.65	-2.27	4.33	0.77	21.25	-392.[illegible]	40.59	1919	3	0.79	1.28	10.02	24.92	-0.14	10.07	31.05	-279.65	13.[illegible]	35.25
1905	1	0.21	0.21	-25.22	-2.63	-2.02	0.33	-6.33	-11.26	-507.[illegible]	71.37	1919	4	0.21	1.28	5.15	22.95	-9.44	4.80	19.10	-272.95	[illegible]	5.19
1905	2	0.78	0.21	-21.70	-3.31	-2.48	4.07	4.07	-47.52	-510.[illegible]	104.57	1920	1	0.21	0.29	-2.73	-14.65	-0.16	0.20	14.55	-222.61	[illegible]	7.34
1905	3	0.78	0.79	-22.87	-5.67	-4.11	4.51	-0.15	-13.92	-436.[illegible]	60.14	1920	2	0.79	0.29	-2.67	-14.79	0.03	0.59	12.19	-224.20	7.[illegible]	9.63
1905	4	0.21	0.79	-25.54	-4.34	-3.07	-2.44	-17.59	-217.22	18.[illegible]	16.12	1920	3	0.79	1.09	-0.31	-3.12	0.19	-2.02	14.[illegible]	-202.91	[illegible]	11.15
1906	1	0.21	0.34	0.47	6.65	-0.22	1.68	14.95	-224.63	13.[illegible]	12.34	1920	4	0.21	1.09	0.00	-3.48	-0.14	3.[illegible]	13.11	-220.05	7.71	11.94
1906	2	0.79	0.34	1.11	6.78	-0.60	2.98	16.31	-200.07	7.57	45.14	1921	1	0.21	0.32	-5.22	-25.76	-0.09	0.69	4.90	-205.62	12.22	8.26
1906	3	0.79	1.28	3.46	21.90	-0.64	3.43	10.44	-182.73	10.99	29.20	1921	2	0.79	0.32	-5.17	-25.76	-0.01	-0.14	5.09	-207.42	11.78	8.31
1906	4	0.21	1.28	2.77	21.10	0.02	-0.67	14.17	-220.88	15.34	7.55	1921	3	0.79	1.19	-3.97	-20.63	-0.04	0.29	7.40	-226.15	10.21	9.77
1907	1	0.21	0.29	-3.22	-14.65	-0.14	0.94	13.26	-222.77	12.26	6.49	1921	4	0.21	1.19	-4.26	-20.76	-0.04	-0.12	6.74	-223.20	11.33	6.74
1907	2	0.79	0.29	-2.95	-14.51	-0.29	-0.97	13.34	-218.53	12.95	11.66	1922	1	0.21	0.28	-5.11	-24.97	-0.07	0.03	-2.38	-217.91	13.61	8.42
1907	3	0.79	1.09	-0.63	-3.53	-0.04	-0.67	16.12	-215.57	15.94	10.34	1922	2	0.79	0.28	-5.08	-24.95	-0.04	0.14	-3.10	-229.24	12.06	8.43
1907	4	0.21	1.09	-1.18	-3.39	-0.21	-0.97	15.36	-223.23	15.14	3.65	1922	3	0.79	1.06	-5.45	-26.34	-0.04	-0.53	-1.77	-228.13	12.42	2.90
1908	1	0.21	0.32	-5.36	-25.77	-0.07	0.34	5.25	-224.59	13.98	3.65	1922	4	0.21	1.06	-5.45	-26.85	-0.03	0.47	-1.41	-226.67	12.02	2.61
1908	2	0.79	0.32	-5.29	-25.77	-0.11	-0.50	5.14	-222.90	12.72	5.91	1923	1	0.30	0.25	-1.99	0.56	-0.59	-1.02	-0.98	-229.37	-251.09	-13.39
1908	3	0.79	1.19	-4.19	-20.74	-0.16	0.29	6.44	-221.49	15.08	5.62	1923	2	1.10	0.37	-2.07	1.71	-1.09	0.07	9.79	0.47	-333.64	-22.96
1908	4	0.21	1.19	-4.29	-20.62	-0.16	0.78	6.51	-[illegible]	15.25	0.42	1923	3	1.10	0.95	-5.24	2.12	-0.59	-3.06	-11.32	-98.51	-413.[illegible]	42.36
1909	1	0.21	0.28	-5.20	-24.97	-0.05	0.07	-3.12	-226.36	14.21	0.40	1923	4	0.30	0.83	-1.57	1.35	0.12	-0.16	-1.69	14.24	-142.57	-134.31
1909	2	0.79	0.28	-5.14	-24.97	-0.07	0.09	-3.21	-225.46	14.13	2.39	1924	1	0.23	0.21	-1.34	0.27	-0.55	-1.02	-0.44	2.42	-350.21	78.22
1909	3	0.79	1.06	-5.53	-26.86	-0.08	-0.09	-1.69	-224.06	15.26	2.16	1924	2	0.86	0.21	-1.36	0.30	-0.08	1.02	1.20	-31.42	-219.69	60.90
1909	4	0.21	1.06	-5.58	-26.87	-0.07	0.39	-1.84	-[illegible]	-297.39	4.26	1924	3	0.86	0.79	-1.73	0.78	-0.09	1.20	3.75	6.93	-155.17	204.29
1910	1	0.30	0.21	-1.60	-0.72	-0.51	0.11	-1.80	-14.96	-297.39	4.26	1924	4	0.23	0.79	-0.85	0.37	-0.12	-1.22	-0.36	-19.59	-397.48	54.79
1910	2	1.10	0.21	-0.58	-1.11	-0.90	-0.31	2.04	-11.51	-302.[illegible]	-8.35	1925	1	0.09	0.21	0.94	-0.08	-0.57	-0.15	-2.65	3.27	-314.[illegible]	-60.74
1910	3	1.10	0.79	-1.10	-0.15	-0.62	6.21	4.66	6.88	-318.[illegible]	-24.85	1925	2	0.33	0.21	0.64	-0.04	-0.40	-0.26	3.52	0.54	-[illegible]	-52.61
1910	4	0.30	0.79	-1.92	0.00	-0.74	-2.00	-1.69	-[illegible]	-[illegible]	10.81	1925	3	0.33	0.79	-0.15	-0.11	-0.28	-1.06	1.89	1.98	-[illegible]	-42.74
1911	1	0.23	0.21	-2.03	-0.28	-0.44	0.48	0.48	8.90	-[illegible]	56.73	1925	4	0.09	0.79	0.21	-0.02	-0.26	-1.33	-1.20	-1.15	-[illegible]	-69.94
1911	2	0.86	0.21	-1.72	-0.42	-0.53	-0.03	3.51	-9.32	-310.[illegible]	33.17	1926	1	0.09	0.21	-0.21	-0.54	-0.68	-0.83	-6.10	0.88	-306.94	33.45
1911	3	0.86	0.79	-1.35	0.26	-0.14	0.82	3.69	-34.03	-278.[illegible]	23.05	1926	2	0.35	0.21	-0.45	-0.56	-0.67	-1.44	4.38	0.20	372.41	40.76
1911	4	0.23	0.79	-1.70	0.09	-0.69	0.26	-0.31	16.66	-317.42	80.89	1926	3	0.35	0.79	0.26	-0.40	-0.50	0.51	0.54	-2.65	-328.84	41.29
1912	1	0.09	0.21	2.25	0.01	0.53	-1.72	-1.74	13.05	-340.99	-60.28	1926	4	0.09	0.79	0.08	-0.46	-0.54	1.03	-7.[illegible]	-2.74	-402.[illegible]	32.04
1912	2	0.33	0.21	2.09	-0.14	-0.17	-2.78	2.19	10.21	-343.74	-55.43	1927	1	0.09	0.21	0.15	0.98	-0.67	0.73	-4.89	-1.10	-386.22	-30.31
1912	3	0.33	0.79	1.23	-0.17	-0.50	-1.58	4.11	2.67	-348.54	-51.27												

1927	2	0.33	0.21	0.43	0.96	-0.63	1.65	6.47	-0.21	-392.99	-13.43
1927	3	0.33	0.79	0.85	1.03	-0.56	3.22	3.88	-0.29	-409.14	-21.49
1927	4	0.09	0.79	0.14	0.89	-0.56	2.25	-5.83	-3.33	-406.62	-27.57
1928	1	0.09	0.21	-1.39	-1.11	-0.64	3.09	-3.26	3.57	-395.28	6.25
1928	2	0.32	0.21	-0.74	-1.01	-0.42	2.12	2.95	1.33	-397.36	12.19
1928	3	0.32	0.79	-1.34	-1.16	-0.44	2.90	4.79	0.81	-411.42	15.84
1928	4	0.09	0.79	-2.07	-1.26	-0.79	3.60	-1.42	5.78	-406.94	12.90
1929	1	0.13	0.21	-3.62	-1.24	-0.29	4.54	-2.07	3.05	-388.31	10.35
1929	2	0.47	0.21	-2.13	-1.10	-0.42	3.36	-0.74	3.66	-396.71	5.97
1929	3	0.47	0.79	-2.87	-1.45	-0.57	3.70	0.39	10.19	-408.10	9.25
1929	4	0.13	0.79	-4.34	-1.63	-0.47	4.40	-1.52	-3.45	-379.60	3.26
1930	1	0.18	0.21	-25.61	-5.76	-1.48	5.14	1.92	-150.08	-268.81	-46.16
1930	2	0.67	0.21	-24.81	-4.50	-2.02	2.64	-0.98	-115.63	-287.18	-11.16
1930	3	0.67	0.79	-25.41	-4.11	-0.75	2.51	-1.49	-95.39	-282.61	-54.60
1930	4	0.18	0.79	-26.15	-5.20	-0.84	3.61	2.01	-97.00	-325.27	-79.75
1931	1	0.21	0.21	-30.36	-11.13	-1.79	10.97	1.24	-239.75	-691.79	-202.33
1931	2	0.78	0.21	-25.99	-9.53	-2.74	4.51	6.79	-135.30	-462.76	-82.77
1931	3	0.78	0.79	-26.95	-6.60	-1.62	3.14	7.95	-40.87	-537.13	-97.15
1931	4	0.21	0.79	-28.00	-6.91	-0.87	1.08	2.75	7.23	-564.95	-48.48
1932	1	0.21	0.34	2.24	5.85	1.12	1.59	12.71	-227.68	-6.39	15.93
1932	2	0.79	0.34	1.45	6.84	0.89	1.77	14.56	-226.47	-0.71	22.16
1932	3	0.79	1.28	2.80	22.44	0.74	6.68	14.79	-251.15	0.13	5.53
1932	4	0.21	1.28	6.63	24.21	0.97	-25.39	22.85	-294.37	9.66	8.45
1933	1	0.21	0.29	-2.55	-14.61	0.22	1.17	13.62	-225.90	7.63	11.99
1933	2	0.79	0.29	-2.68	-14.39	0.39	-0.12	14.57	-228.55	8.27	14.34
1933	3	0.79	1.09	0.00	-3.08	0.36	-5.97	15.54	-136.43	4.01	14.91
1933	4	0.21	1.09	0.15	-2.82	0.17	1.99	18.69	-223.67	4.20	16.16
1934	1	0.21	0.32	-5.17	-25.76	0.06	0.60	5.26	-228.89	11.30	5.75
1934	2	0.79	0.32	-5.21	-25.67	0.10	-0.31	5.20	-231.22	11.70	6.77
1934	3	0.79	1.19	-4.12	-20.63	0.19	-0.03	6.30	-128.56	9.52	10.97
1934	4	0.21	1.19	-3.95	-20.62	0.03	-0.56	6.51	-223.63	9.56	8.60
1935	1	0.21	0.28	-5.08	-24.92	-0.03	0.07	-2.12	-230.77	12.83	0.61
1935	2	0.79	0.28	-5.09	-24.88	-0.05	0.08	-3.10	-228.97	12.91	0.62
1935	3	0.79	1.06	-5.45	-26.77	-0.01	-0.34	-1.90	-232.58	12.53	3.99
1935	4	0.21	1.06	-5.44	-26.81	-0.04	0.29	-1.68	-229.55	12.52	3.66
1936	1	0.36	0.08	1.57	-0.13	-0.04	-10.98	0.29	-105.91	29.62	-22.91
1936	2	1.35	0.08	-10.88	0.65	2.35	-11.20	9.26	-100.13	-80.79	31.54
1936	3	1.35	0.32	-10.72	0.73	-1.85	-12.44	-10.34	-157.90	3.25	-33.19
1936	4	0.36	0.32	1.38	-0.17	0.22	-14.97	1.45	-159.07	27.71	21.32
1937	1	0.32	0.08	15.12	0.14	0.03	-6.95	0.81	-119.03	14.79	-17.27
1937	2	1.19	0.08	8.34	-0.42	-0.32	-6.75	-4.03	-112.10	-11.95	18.61
1937	3	1.19	0.32	8.54	-0.39	0.63	-7.36	1.90	-146.99	-27.37	-20.45
1937	4	0.32	0.32	14.93	0.11	0.09	-9.20	1.75	-139.50	15.64	15.39
1938	1	0.28	0.08	-18.32	0.03	0.27	-2.36	0.52	-103.69	-13.46	-15.53
1938	2	1.06	0.08	-21.00	-0.03	0.07	-3.19	-1.04	-104.43	1.72	15.47
1938	3	1.06	0.32	-20.88	0.00	0.03	-4.28	-2.01	-109.50	-0.33	-13.77
1938	4	0.28	0.32	-18.49	0.00	-0.09	-2.25	2.46	-135.27	-4.31	17.24
1939	1	0.17	0.12	25.56	-0.95	0.09	-6.93	1.33	-249.40	-81.46	45.38
1939	2	0.62	0.12	20.48	0.14	0.25	-8.00	-0.44	-231.64	-139.66	5.77
1939	3	0.53	0.45	21.83	0.04	1.46	-8.48	-6.09	-223.75	-95.26	-0.96
1939	4	0.14	0.44	26.25	-0.65	1.14	-7.20	4.08	-240.69	-60.15	37.38
1940	1	0.12	0.12	16.41	0.73	0.33	-9.02	0.26	-201.25	-175.59	-10.59
1940	2	0.58	0.13	11.44	1.23	0.35	-7.84	-1.72	-176.34	-252.56	-22.65
1940	3	0.37	0.50	13.54	0.89	1.52	-7.02	-2.64	-164.36	-206.16	-57.77
1940	4	-0.02	0.47	18.04	0.47	1.56	-9.53	1.15	-200.48	-152.40	-32.78
1941	1	0.08	0.14	8.40	1.19	0.32	-2.43	-0.72	-132.00	-99.13	-10.79
1941	2	0.53	0.16	5.02	0.72	0.26	-7.01	-2.46	-81.37	-270.15	-8.51
1941	3	0.19	0.59	7.09	0.97	0.90	-4.85	-0.17	-91.16	332.51	-51.32
1941	4	-0.18	0.53	10.32	0.87	1.25	-7.04	-1.30	-135.88	-269.51	-60.44
1942	1	0.13	0.12	26.84	0.08	0.99	-7.37	6.87	-238.92	-53.47	33.
1942	2	0.47	0.12	22.73	0.50	1.23	-11.11	3.09	-219.41	-55.64	0.
1942	3	0.39	0.45	25.18	0.87	2.68	-9.59	1.58	-192.70	-17.26	-17.75
1942	4	0.12	0.44	29.57	0.57	1.03	-17.41	5.44	-223.58	-11.78	17.70
1943	1	0.10	0.13	19.44	0.53	-0.21	-12.73	3.15	-217.00	-82.76	-27.17
1943	2	0.43	0.14	15.03	0.41	0.06	-13.75	-0.21	-187.69	-138.02	-72.56
1943	3	0.27	0.53	17.18	0.76	2.48	-1.36	0.25	-172.73	-53.87	-65.43
1943	4	0.00	0.48	22.09	0.69	1.78	-5.80	3.04	-178.36	-19.70	-24.18
1944	1	0.06	0.16	12.21	0.33	-0.92	-13.91	-0.13	-191.50	-180.46	-104.34
1944	2	0.39	0.18	8.69	-0.04	-0.64	-12.45	-4.07	-152.91	-260.43	-130.04
1944	3	0.14	0.67	10.39	0.18	1.43	-0.12	0.92	-200.44	-136.83	-140.31
1944	4	-0.12	0.59	14.33	0.32	1.41	-0.76	1.34	-190.23	-71.48	-88.09
1945	1	0.16	0.12	-28.42	1.58	-0.15	-3.66	-0.93	-256.61	-77.41	-32.96
1945	2	0.61	0.12	-30.08	1.89	-0.55	-1.53	-1.26	-212.04	-78.54	-86.99
1945	3	0.52	0.45	-30.87	1.86	-0.42	-2.54	-2.76	-242.13	-70.22	-59.31
1945	4	0.14	0.44	-28.86	1.31	0.57	-5.91	-2.66	-248.68	-66.44	-48.35
1946	1	0.12	0.12	-29.91	1.48	-0.85	0.47	-0.64	-250.94	-77.50	-3.38
1946	2	0.57	0.13	-28.40	0.00	-1.02	0.56	-2.12	-225.49	-204.87	-5.67
1946	3	0.36	0.50	-29.96	1.08	-3.00	-2.19	1.21	-251.58	-153.51	-14.85
1946	4	-0.01	0.47	-30.95	1.85	-1.51	-3.00	-2.56	-231.41	-116.29	-46.05
1947	1	0.08	0.14	-27.11	-0.87	-1.04	1.62	-1.42	-192.24	-234.78	-22.85
1947	2	0.52	0.16	-25.74	-2.17	-1.19	0.30	0.96	-150.07	-290.77	-46.03
1947	3	0.19	0.58	-26.78	-2.66	-3.70	-7.72	-4.17	-191.04	-242.08	-63.26
1947	4	-0.18	0.53	-28.20	-0.11	-3.40	-6.67	-0.92	-221.12	-110.12	-45.50
1948	1	0.13	0.12	-29.15	0.12	2.88	-3.73	-6.81	-238.86	-44.46	-46.06
1948	2	0.46	0.12	-31.32	1.18	2.26	2.14	-7.40	-251.64	-59.75	-57.14
1948	3	0.39	0.45	-33.65	-0.10	-0.39	-31.16	-9.36	-278.70	-37.52	-55.15
1948	4	0.12	0.44	-31.66	-0.53	1.91	-24.08	-4.52	-256.59	-15.91	-20.10
1949	1	0.10	0.13	-31.72	1.39	4.03	7.51	-5.99	-245.07	-46.41	-74.93
1949	2	0.43	0.14	-31.41	2.34	2.66	11.96	-6.61	-263.02	-70.52	-36.34
1949	3	0.27	0.53	-33.69	0.44	-2.60	-38.11	-12.55	-286.55	-31.50	-81.03
1949	4	0.00	0.48	-34.05	0.15	0.40	-36.12	-10.47	-232.36	-13.31	-50.95
1950	1	0.06	0.16	-30.32	1.99	4.01	18.31	-1.00	-244.63	-116.96	-46.74
1950	2	0.39	0.18	-28.48	2.06	2.39	16.37	7.75	-215.75	-160.10	-70.31
1950	3	0.14	0.66	-30.75	1.47	-3.24	-72.99	-19.08	-240.13	-75.35	-47.11
1950	4	-0.11	0.59	-32.69	1.37	-0.81	-38.50	-13.60	-277.89	-61.79	-60.10
1951	1	0.36	0.12	-3.37	-25.90	2.16	-1.62	2.58	-210.69	-156.30	99.39
1951	2	0.90	0.10	-3.78	-24.42	3.71	2.10	3.64	-211.72	-54.11	97.92
1951	3	1.21	0.37	-3.07	-24.23	5.19	-2.15	1.84	-262.03	-142.1	99.82
1951	4	0.76	0.46	-2.22	-24.37	3.17	-2.35	3.17	-174.3	-174.23	78.47
1952	1	0.30	0.09	-3.90	-22.87	5.06	1.10	4.20	-223.21	-174.11	91.51
1952	2	0.85	0.07	-4.51	-19.40	6.42	4.42	3.09	-225.75	-144.17	21.63
1952	3	1.01	0.27	-4.73	-17.61	8.24	5.67	0.20	-239.35	-81.17	31.27
1952	4	0.54	0.32	-2.75	-22.07	6.31	2.93	-2.66	-243.01	-147.74	97.19
1953	1	0.25	0.07	-5.82	-15.42	6.23	4.56	6.24	-209.68	-93.21	-31.61
1953	2	0.80	0.06	-6.76	-10.99	3.55	-1.67	0.18	-141.17	-94.71	-43.19
1953	3	0.83	0.22	-8.15	-7.78	3.86	-0.53	4.95	-179.44	-87.46	-37.95
1953	4	0.35	0.24	-6.39	-11.97	7.60	3.09	7.03	-186.42	-69.76	15.16
1954	1	0.27	0.16	-5.19	-23.95	12.67	12.91	6.19	-144.69	-172.5	7.71
1954	2	0.66	0.13	-6.46	-19.39	14.01	17.24	8.06	-220.52	-101.23	19.17
1954	3	0.89	0.47	-10.99	-11.93	12.22	-41.74	16.51	-201.23	-53.41	14.
1954	4	0.57	0.59	-7.97	-18.05	14.10	-20.62	21.16	-204.66	-45.93	-17.43
1955	1	0.24	0.10	-6.32	-18.13	13.51	14.78	8.15	-249.53	-81.42	34.45
1955	2	0.65	0.08	-6.84	-10.75	11.78	4.44	6.83	-214.29	-68.72	24.03
1955	3	0.78	0.30	-11.91	-3.56	7.65	-42.78	10.36	-203.25	-20.16	5.15
1955	4	0.44	0.37	-9.97	-9.11	11.05	-42.41	17.76	-202.43	-53.97	10.11
1956	1	0.20	0.07	-8.66	-8.19	8.57	2.12	12.14	-242.91	-72.05	19.23

1956	2	0.62	0.06	-9.86	-4.29	3.35	-1.84	9.73	-515.12	-54.00	-43.97
1956	3	0.64	0.23	-10.49	-0.66	1.07	-14.25	4.97	-592.52	-20.10	-17.75
1956	4	0.29	0.25	-10.81	-3.47	5.70	-34.83	11.69	-459.41	-23.86	68.84
1957	1	0.20	0.06	-6.45	-10.69	-0.46	2.63	9.38	-463.73	-82.61	-71.01
1957	2	0.75	0.07	-4.78	-14.71	-3.61	-5.15	6.89	-438.52	-71.20	-59.65
1957	3	0.65	0.24	-5.59	-11.07	-5.01	-4.01	9.53	-477.17	-80.31	-82.00
1957	4	0.17	0.22	-7.80	-7.39	-0.89	1.31	9.84	-508.85	-76.16	-70.79
1958	1	0.15	0.07	-3.12	-18.66	-3.99	-5.49	2.73	-397.15	-55.07	-42.38
1958	2	0.70	0.09	-2.60	-22.29	-3.06	-2.99	4.81	-350.26	-39.79	-22.64
1958	3	0.46	0.32	-1.55	-21.40	-4.45	-4.06	-0.33	-366.14	-54.28	-57.30
1958	4	-0.01	0.27	-3.55	-16.62	-6.00	-6.05	5.70	-427.93	-69.06	-72.89
1959	1	0.10	0.10	-2.83	-24.21	-1.99	-4.29	-1.21	-319.67	-48.69	-4.38
1959	2	0.64	0.12	-3.09	-25.98	-0.69	-1.06	1.44	-292.79	-54.61	22.95
1959	3	0.24	0.46	-1.56	-24.27	-1.75	0.94	2.65	-324.45	-67.68	-28.63
1959	4	-0.21	0.37	-2.01	-23.82	-3.56	0.42	1.60	-318.34	-56.69	-43.72
1960	1	0.16	0.06	-9.27	-4.29	-0.45	1.25	9.88	-560.20	-52.80	-39.39
1960	2	0.58	0.07	-7.57	-7.36	-5.89	-2.36	12.84	-522.63	-70.19	-80.39
1960	3	0.49	0.25	-9.30	-2.98	-4.25	22.78	10.60	-634.05	-48.08	-112.49
1960	4	0.14	0.23	-9.93	-0.66	0.29	-0.43	4.46	-652.80	-10.07	-15.13
1961	1	0.12	0.08	-7.19	-10.18	-9.42	-3.82	7.40	-401.43	-61.32	-44.26
1961	2	0.53	0.10	-4.65	-17.56	-11.67	-15.03	9.16	-394.21	-50.45	-42.64
1961	3	0.33	0.37	-8.01	-8.36	-9.56	38.12	16.10	-451.71	-60.64	-136.72
1961	4	-0.01	0.30	-9.98	-2.99	-6.14	34.12	11.35	-536.45	-45.74	-101.29
1962	1	0.07	0.13	-4.71	-19.26	-12.64	-17.85	0.45	-248.28	-45.57	-6.23
1962	2	0.46	0.16	-3.83	-24.17	-11.57	-14.54	-6.76	-280.01	-51.45	-7.95
1962	3	0.16	0.59	-6.48	-17.79	-13.19	28.03	21.06	-267.89	-68.77	-96.50
1962	4	-0.16	0.47	-6.99	-11.44	-11.56	38.19	16.56	-388.51	-48.73	-101.27
1963	1	0.29	0.16	-25.96	-2.17	-0.16	-0.75	3.22	-24.06	-251.80	-24.91
1963	2	0.74	0.14	-27.61	-0.93	-0.14	-2.31	-0.29	-59.61	-189.51	-6.19
1963	3	1.00	0.53	-28.55	0.13	2.48	6.11	0.26	-111.52	-150.81	46.64
1963	4	0.63	0.58	-26.88	-2.26	2.43	7.46	-0.43	-79.27	-208.62	23.79
1964	1	0.25	0.13	-29.10	-0.06	-0.04	-1.46	-0.98	-119.40	-139.03	13.83
1964	2	0.69	0.12	-31.00	1.42	-0.55	-1.07	0.20	-175.56	-175.11	68.09
1964	3	0.83	0.47	-31.86	1.97	0.79	2.41	-1.21	-142.82	-97.37	29.81
1964	4	0.45	0.50	-30.59	1.22	2.13	1.77	2.62	-136.02	-140.19	52.12
1965	1	0.20	0.12	-31.48	1.86	-0.19	0.74	-0.45	-120.50	-75.22	-17.37
1965	2	0.65	0.12	-30.17	1.57	-0.45	3.53	-0.65	-151.95	-19.57	-4.02
1965	3	0.68	0.44	-30.55	1.32	-1.15	3.28	-4.57	-177.42	-39.23	8.76
1965	4	0.29	0.45	-32.23	1.96	-0.21	1.78	-5.15	-165.27	-68.22	7.68
1966	1	0.22	0.13	-27.97	2.12	-2.58	-18.07	4.69	-123.39	-194.43	36.98
1966	2	0.54	0.16	-30.14	2.07	-5.07	-20.19	0.34	-169.40	-121.52	70.55
1966	3	0.72	0.59	-32.62	1.64	0.12	-30.94	-10.30	-175.63	-56.22	75.32
1966	4	0.46	0.66	-29.91	1.86	2.56	32.50	-16.81	-173.02	-105.79	110.91
1967	1	0.19	0.14	-31.79	2.55	-2.17	-13.95	-7.02	-164.87	-106.41	66.11
1967	2	0.52	0.13	-32.57	1.48	-4.41	-4.16	-5.34	-158.65	-59.72	21.43
1967	3	0.62	0.48	-34.88	0.29	-0.60	37.51	-10.54	-169.94	-22.45	26.66
1967	4	0.35	0.53	-33.94	0.73	1.45	38.08	-12.09	-159.65	-40.76	56.13
1968	1	0.16	0.12	-32.60	1.30	-2.04	-3.45	-6.92	-169.47	-45.50	18.87
1968	2	0.50	0.12	-30.79	0.06	-3.64	2.17	-6.34	-173.60	-34.10	-4.23
1968	3	0.51	0.44	-32.42	-0.52	-2.36	25.05	-5.13	-179.78	-10.44	-8.30
1968	4	0.23	0.45	-30.95	-0.02	0.01	32.75	-9.45	-171.40	-11.58	21.56
1969	1	0.17	0.12	-27.51	0.90	-0.61	8.53	-1.26	-106.62	-28.76	-32.35
1969	2	0.62	0.12	-28.54	-0.31	-0.66	7.89	0.08	-136.66	-26.17	-18.25
1969	3	0.53	0.45	-28.82	-0.35	-1.99	8.06	-0.29	-149.78	-67.41	-29.30
1969	4	0.14	0.44	-28.13	0.55	-1.70	6.51	-4.07	-154.45	-51.19	-15.41
1970	1	0.12	0.12	-18.48	-1.05	-0.51	8.61	-0.91	-113.48	-177.55	-14.35
1970	2	0.58	0.13	-17.38	-1.84	-0.44	7.52	-0.74	-77.87	-39.23	-15.42
1970	3	0.37	0.50	-15.46	-1.79	-1.91	6.26	1.91	-112.57	-130.71	-42.87

1970	4	-0.02	0.47	-20.02	-1.03	-2.03	8.67	-1.67	-139.60	-98.61	-37.30
1971	1	0.08	0.14	-10.30	-1.97	-0.34	7.46	-1.16	-50.90	-266.74	-15
1971	2	0.53	0.16	-6.99	-1.93	-0.35	5.15	0.94	-22.81	-339.21	-11.
1971	3	0.19	0.59	-9.08	-2.52	-1.13	3.71	-1.33	-62.93	-296.07	-51.28
1971	4	-0.18	0.53	-12.28	-2.10	-1.56	6.64	0.25	-97.75	-218.77	-45.57
1972	1	0.13	0.12	-28.75	-0.17	-1.62	6.21	-7.97	-171.19	-79.10	-12.92
1972	2	0.47	0.12	-24.76	-0.63	-1.82	10.01	-3.47	-178.61	-42.94	-29.73
1972	3	0.39	0.45	-27.42	-1.10	-3.27	10.60	-1.69	-169.53	-14.73	-37.23
1972	4	0.12	0.44	-31.62	-0.62	-1.43	18.76	-5.58	-137.28	-10.29	-4.50
1973	1	0.10	0.13	-21.56	-0.98	-0.36	11.93	-2.54	-167.67	-60.19	-26.32
1973	2	0.43	0.14	-17.11	-1.28	-0.57	12.55	-0.11	-152.10	-127.14	-60.75
1973	3	0.27	0.52	-19.51	-1.31	-2.34	1.82	-0.40	-139.55	-49.71	-32.34
1973	4	0.00	0.48	-24.46	-0.92	-2.36	6.42	-3.08	-192.98	-22.03	-21.62
1974	1	0.06	0.16	-14.24	-1.49	0.34	12.24	-0.61	-109.60	-148.71	-7.07
1974	2	0.39	0.18	-10.73	-1.69	0.05	11.38	3.20	-137.11	-262.02	-109.30
1974	3	0.14	0.67	-12.67	-1.49	-2.69	-0.12	-0.46	-202.05	-109.26	-116.71
1974	4	-0.12	0.59	-16.75	-1.06	-2.34	1.04	-1.13	-209.09	-53.11	-75.26
1975	1	0.36	0.13	-1.98	-6.20	0.51	-0.25	-5.52	-378.03	-15.30	16.48
1975	2	0.90	0.10	-2.17	-5.62	0.45	0.69	-5.47	-407.44	-33.26	44.05
1975	3	1.21	0.38	-2.63	-6.26	1.00	0.99	-2.45	-374.80	-76.06	99.72
1975	4	0.77	0.47	-2.28	-7.34	0.80	0.59	-4.11	-331.01	-55.27	61.90
1976	1	0.30	0.09	-2.46	-4.89	0.36	0.91	-2.76	-427.17	-19.46	93.09
1976	2	0.85	0.08	-3.02	-3.44	0.37	1.60	0.61	-482.30	-261.58	116.56
1976	3	1.01	0.28	-3.14	-3.14	1.30	2.99	-0.60	-594.45	-137.69	31.35
1976	4	0.54	0.33	-2.76	-4.94	0.93	2.22	-2.42	-592.17	-69.73	109.22
1977	1	0.25	0.07	-3.20	-2.24	0.46	2.63	-0.09	-513.41	-150.93	-40.15
1977	2	0.80	0.06	-1.93	-1.14	0.51	3.91	0.56	-474.04	-71.13	-59.08
1977	3	0.83	0.24	-1.90	-0.77	0.42	3.76	2.10	-512.76	-6.24	-51.60
1977	4	0.35	0.25	-3.04	-1.56	0.87	3.26	0.92	-281.31	-210.04	-29.40
1978	1	0.27	0.16	-3.75	-2.72	3.76	5.43	-5.06	-221.23	-58.54	37.60
1978	2	0.66	0.13	-3.79	-5.21	2.34	5.55	-2.10	-311.83	-27.42	41.52
1978	3	0.89	0.48	-5.13	-3.02	3.26	-1.45	0.91	-324.41	-54.48	123.71
1978	4	0.57	0.60	-5.32	-6.00	4.87	0.43	0.41	-249.60	-33.71	109.54
1979	1	0.24	0.10	-3.62	-4.02	2.25	4.69	0.21	-409.93	-116.03	91.81
1979	2	0.65	0.08	-3.72	-1.88	1.42	3.19	0.87	-461.93	-37.29	40.77
1979	3	0.78	0.31	-4.08	-0.47	1.20	0.29	0.62	-440.11	-44.20	79.34
1979	4	0.44	0.38	-4.45	-2.04	2.48	-1.37	0.59	-401.35	-78.65	113.52
1980	1	0.20	0.07	-3.18	-1.05	0.95	3.45	0.53	-340.81	-97.41	92.29
1980	2	0.62	0.06	-1.99	-0.50	0.31	3.03	0.44	-574.97	-72.53	-71.01
1980	3	0.63	0.24	-1.99	-0.87	0.07	3.68	3.47	-588.59	-26.15	-23.79
1980	4	0.29	0.26	-3.36	-0.36	0.96	1.17	2.11	-511.29	-19.57	80.67
1981	1	0.20	0.06	-0.07	-0.82	0.14	2.48	1.64	-596.12	137.12	-17.44
1981	2	0.75	0.07	1.34	-1.12	-0.28	0.01	-1.63	-674.64	-98.05	-102.07
1981	3	0.65	0.25	0.97	-1.19	-0.19	0.03	-2.76	-502.16	-94.57	-123.64
1981	4	0.17	0.24	-0.35	-0.76	0.04	3.51	-1.13	-528.75	-45.37	-96.44
1982	1	0.15	0.08	1.38	-1.40	-0.41	-1.48	-4.96	-854.36	-72.10	-91.39
1982	2	0.70	0.09	0.75	-2.22	-0.37	-2.12	-4.90	-810.76	-84.07	-67.77
1982	3	0.46	0.33	0.98	-3.13	-0.55	-3.27	-5.53	-844.79	-69.44	-91.12
1982	4	-0.01	0.28	1.28	-1.90	-0.65	-1.60	-2.06	-470.29	-90.61	-112.49
1983	1	0.10	0.10	0.13	-2.82	-0.30	-2.40	-6.05	-807.25	-40.23	-52.40
1983	2	0.64	0.13	-0.41	-3.76	-0.26	-1.40	-7.25	-796.01	-61.39	-28.47
1983	3	0.23	0.47	-0.71	-5.16	-0.47	-1.46	-5.68	-711.64	-75.41	-29.61
1983	4	-0.21	0.38	0.18	-4.19	-0.61	-1.95	-5.73	-642.94	-96.15	-82.20
1984	1	0.16	0.06	-0.61	-0.44	-0.02	3.58	0.54	-586.76	-58.11	-60.25
1984	2	0.58	0.07	0.60	-0.87	-0.73	0.66	0.43	-594.26	-100.44	-122.19
1984	3	0.49	0.26	0.30	-0.46	-0.43	0.82	1.54	-732.76	-31.31	-121.30
1984	4	0.14	0.24	-0.82	-0.06	0.03	4.47	-0.29	-650.63	-11.44	-12.43
1985	1	0.12	0.08	0.68	-1.02	-1.46	-1.67	-1.14	-524.42	-66.21	-20.47

1985	2	0.53	0.10	0.45	-3.06	-2.07	-6.14	-1.71	-481.08	-62.20	-67.49
1985	3	0.32	0.38	-0.13	-1.59	-1.48	5.04	1.00	-553.94	-79.06	-169.24
1985	4	-0.01	0.31	0.31	-0.30	-0.70	6.11	1.62	-696.68	-59.56	-132.58
1986	1	0.07	0.13	-0.33	-3.95	-2.67	-7.98	-4.46	-439.19	-43.44	-19.00
1986	2	0.46	0.16	-1.19	-6.24	-2.99	-7.42	-7.77	-374.32	-47.93	-17.67
1986	3	0.16	0.60	-2.27	-5.07	-3.80	0.68	0.32	-340.42	-70.26	-117.20
1986	4	-0.16	0.48	-1.20	-2.49	-2.37	3.71	1.16	-479.88	-55.72	-126.16
1987	1	0.13	0.21	-4.67	-1.64	-0.56	4.71	-0.48	-6.72	-383.66	-2.23
1987	2	0.47	0.21	-3.20	-1.30	-0.57	4.27	0.85	3.21	-406.33	6.88
1987	3	0.47	0.79	-3.38	-1.28	-0.27	5.01	0.44	-29.53	-437.13	-9.29
1987	4	0.13	0.79	-4.83	-1.82	-0.41	4.08	-0.46	7.85	-409.76	-16.76
1988	1	0.09	0.21	-2.37	-1.07	-0.66	4.17	-0.96	1.22	-419.41	12.61
1988	2	0.32	0.21	-1.48	-0.84	-0.41	4.27	4.46	0.70	-421.54	19.44
1988	3	0.32	0.79	-1.50	-0.49	-0.26	5.92	2.53	4.69	-436.34	29.26
1988	4	0.09	0.79	-2.70	-0.84	-0.36	4.46	-0.74	-4.52	-442.13	8.85
1989	1	0.09	0.21	-0.07	0.30	-0.46	4.15	-5.12	-2.85	-416.05	-28.99
1989	2	0.33	0.21	0.79	0.43	-0.45	3.91	2.62	-1.85	-419.97	-25.03
1989	3	0.33	0.79	0.68	-0.01	-0.23	4.07	1.69	-6.34	-436.31	-26.68
1989	4	0.09	0.79	-0.17	-0.26	-0.21	6.20	-2.54	-1.62	-434.76	-36.29
1990	1	0.09	0.21	0.54	0.17	-0.39	1.65	-1.88	-6.40	-413.90	34.69
1990	2	0.35	0.21	0.91	0.26	-0.37	2.19	4.44	-0.89	-412.98	43.79
1990	3	0.35	0.79	1.43	0.68	-0.24	3.64	1.88	-11.37	-426.56	51.04
1990	4	0.09	0.79	0.94	0.59	-0.23	1.19	-1.91	-11.97	-432.90	41.70
1991	1	0.09	0.21	-0.45	-0.37	-0.24	-1.89	-2.26	-14.47	-391.66	-66.33
1991	2	0.33	0.21	-0.87	-0.49	-0.15	-2.08	0.38	-15.40	-405.11	-59.47
1991	3	0.33	0.79	-1.52	-0.59	-0.09	-3.19	1.64	-12.67	-431.37	-59.92
1991	4	0.09	0.79	-0.98	-0.39	-0.32	-1.07	0.35	-17.80	-461.47	-69.08
1992	1	0.23	0.21	-0.53	0.32	0.19	-2.61	1.37	0.69	-364.27	56.79
1992	2	0.86	0.21	-1.81	0.26	0.47	-1.08	-0.09	-10.31	-393.59	241.23
1992	3	0.86	0.79	-1.29	-0.50	0.28	-2.73	1.92	12.27	-509.96	69.86
1992	4	0.23	0.79	9.03	0.16	0.25	-3.21	1.26	-15.73	-413.55	86.61
1993	1	0.30	0.17	-1.69	9.83	0.33	1.45	6.35	-24.62	-586.73	-122.65
1993	2	1.10	0.05	-5.25	2.05	0.85	-4.97	8.89	-16.24	-226.72	36.83
1993	3	1.10	0.63	-1.98	1.34	1.04	-0.29	-5.69	-37.63	-366.84	7.39
1993	4	0.30	0.75	-2.08	0.12	1.11	1.50	1.79	-7.90	-455.71	3.45
1994	1	0.18	0.21	-25.95	-4.73	-0.37	2.74	2.78	-27.22	-326.63	-47.60
1994	2	0.67	0.21	-25.29	-3.72	0.03	2.35	2.44	-46.54	-304.39	-44.12
1994	3	0.67	0.79	-24.55	-3.45	1.07	1.94	1.06	-30.04	-329.05	-16.27
1994	4	0.18	0.79	-25.03	-4.29	0.10	2.91	1.78	-18.32	-339.82	-34.70
1995	1	0.21	0.21	-27.43	-4.69	-1.00	0.59	0.43	36.11	-509.59	-19.92
1995	2	0.78	0.21	-27.19	-4.42	-1.32	2.85	5.14	-19.91	-539.89	-70.27
1995	3	0.78	0.79	-26.06	-2.90	-1.15	2.58	5.62	4.38	-532.95	-37.97
1995	4	0.21	0.79	-27.21	-3.13	-0.98	1.68	-2.31	21.76	-473.69	-15.75
1996	1	0.21	0.34	1.24	7.12	0.54	-1.13	19.32	-235.17	8.08	23.67
1996	2	0.79	0.34	0.87	6.84	0.55	-0.91	15.55	-228.58	15.42	21.16
1996	3	0.79	1.28	3.45	21.94	0.25	0.26	15.97	-217.36	10.37	6.36
1996	4	0.21	1.28	4.64	22.35	0.28	-5.71	15.64	-227.81	3.63	0.79
1997	1	0.21	0.29	-3.00	-14.38	0.34	-0.11	13.43	-271.35	8.90	15.63
1997	2	0.79	0.29	-3.23	-14.37	0.33	-0.39	13.46	-234.40	12.91	16.40
1997	3	0.79	1.09	-1.00	-3.09	0.47	-0.68	15.02	-231.97	11.93	20.66
1997	4	0.21	1.09	-0.97	-3.31	0.47	1.75	12.47	-227.74	7.67	18.05
1998	1	0.21	0.32	-5.25	-25.59	0.10	0.61	5.04	-233.30	12.60	7.38
1998	2	0.79	0.32	-5.32	-25.53	0.08	-0.23	5.05	-236.44	13.65	7.82
1998	3	0.79	1.19	-4.38	-20.40	0.22	-0.15	6.45	-235.06	13.12	12.60
1998	4	0.21	1.19	-4.18	-20.54	0.23	-0.44	7.07	-232.03	10.89	11.91
1999	1	0.21	0.28	-5.10	-24.85	-0.05	0.07	-3.14	-234.96	12.16	8.64
1999	2	0.79	0.28	-5.13	-24.80	-0.02	0.11	-3.02	-237.73	13.85	9.65
1999	3	0.79	1.06	-5.90	-26.65	0.21	-0.94	-1.69	-237.14	13.03	4.59
1999	4	0.21	1.06	-5.49	-26.73	0.01	0.29	-1.74	-234.19	13.02	4.35
2000	1	0.30	0.21	-1.77	-0.22	1.53	-2.97	4.10	19.29	-447.54	38.
2000	2	1.10	0.21	-0.98	-0.30	1.13	6.52	-5.48	-10.16	-363.44	-15.
2000	3	1.10	0.79	-0.52	-0.90	1.50	-0.62	-3.74	10.41	-361.55	-2.48
2000	4	0.30	0.79	-1.05	-0.53	1.26	-0.55	3.10	11.51	-416.12	19.51
2001	1	0.23	0.21	0.51	0.02	0.22	-1.62	1.77	-29.66	-448.37	92.07
2001	2	0.86	0.21	-0.72	0.09	0.29	-0.51	-2.76	17.47	-450.56	40.41
2001	3	0.86	0.79	-0.49	-0.28	0.40	-1.55	-2.99	3.50	-423.81	84.26
2001	4	0.23	0.79	0.99	-0.35	0.45	-1.86	0.70	-11.55	-448.57	68.38
2002	1	0.09	0.21	-1.18	0.00	-0.39	-2.28	0.61	-7.46	-421.55	-54.58
2002	2	0.33	0.21	-1.76	-0.07	-0.19	-2.39	2.56	-12.29	-444.34	-58.93
2002	3	0.33	0.79	-2.30	0.52	-0.04	-0.29	0.04	-21.86	-458.78	-64.52
2002	4	0.09	0.79	-1.70	0.50	0.03	-2.14	1.65	-22.62	-439.41	-71.34
2003	1	0.09	0.21	0.78	0.00	-0.35	2.05	-5.69	-9.57	-448.07	43.52
2003	2	0.35	0.21	1.61	0.11	-0.36	3.09	-6.33	-12.73	-450.66	54.58
2003	3	0.35	0.79	2.01	-1.58	-0.29	5.38	-0.76	-14.65	-462.87	57.79
2003	4	0.09	0.79	0.37	-1.87	-0.30	7.58	-5.70	-7.11	-477.27	51.09
2004	1	0.09	0.21	-0.11	-0.14	-0.28	5.03	-0.10	-12.40	-449.61	-34.94
2004	2	0.33	0.21	1.13	0.01	-0.23	3.24	4.08	-12.95	-455.41	-26.50
2004	3	0.33	0.79	2.95	2.91	-0.22	8.62	10.60	15.48	-471.67	-25.99
2004	4	0.09	0.79	0.59	2.52	-0.31	7.55	5.09	-6.44	-480.64	-39.82
2005	1	0.09	0.21	-2.88	-1.00	0.15	4.21	-2.52	-21.65	-437.34	13.80
2005	2	0.32	0.21	-1.92	-0.63	0.03	6.14	-1.79	-21.54	-448.62	16.96
2005	3	0.32	0.79	-3.66	-2.81	0.21	1.35	-7.78	-8.23	-487.14	4.16
2005	4	0.09	0.79	-3.61	-2.89	0.56	1.48	-6.43	25.09	-516.82	3.14
2006	1	0.13	0.21	-4.49	-2.15	-0.06	3.76	1.27	-22.24	-467.20	-40.93
2006	2	0.47	0.21	-3.51	-1.55	0.23	4.13	-0.68	-1.51	-473.15	1.70
2006	3	0.47	0.79	-3.80	-2.96	0.60	-1.36	-2.58	52.80	-548.08	-15.34
2006	4	0.13	0.79	-3.39	-2.93	0.13	0.44	-0.04	-109.79	-519.20	-131.85
2007	1	0.18	0.21	-23.86	-4.05	0.28	2.89	2.76	-9.80	-751.87	-21.66
2007	2	0.67	0.21	-23.00	-3.26	1.02	2.24	5.20	-25.96	-548.02	0.07
2007	3	0.67	0.79	-19.81	-3.34	2.36	2.45	3.62	-42.95	-383.99	20.39
2007	4	0.18	0.79	-21.90	-3.96	0.33	5.52	2.49	-20.31	-364.69	3.87
2008	1	0.21	0.21	-26.96	-2.86	-0.89	3.17	-2.64	8.21	-459.71	-11.69
2008	2	0.78	0.21	-25.06	-2.31	-1.01	3.53	3.19	10.86	-527.05	-19.01
2008	3	0.78	0.79	-23.53	-2.07	-1.10	3.28	4.27	-0.49	-526.50	-1.69
2008	4	0.21	0.79	-26.34	-2.35	-1.25	3.56	-2.95	7.25	-430.31	2.29
2009	1	0.21	0.34	0.53	6.71	0.45	0.33	15.50	-229.36	16.31	23.64
2009	2	0.79	0.34	0.34	6.71	0.40	-0.11	15.04	-222.53	17.73	21.36
2009	3	0.79	1.28	3.37	21.65	0.31	-0.91	16.41	-200.21	13.09	16.54
2009	4	0.21	1.28	3.72	21.86	0.22	-1.72	16.97	-199.09	12.05	10.42
2010	1	0.21	0.29	-3.32	-14.34	0.29	0.53	13.84	-224.76	15.56	16.84
2010	2	0.79	0.29	-3.39	-14.26	0.16	-0.11	13.01	-224.92	17.16	16.07
2010	3	0.79	1.09	-1.40	-2.98	0.21	0.28	15.12	-224.07	14.70	14.95
2010	4	0.21	1.09	-1.29	-3.04	0.35	-0.97	15.09	-223.63	15.68	20.64
2011	1	0.21	0.32	-5.34	-25.47	0.06	0.40	5.17	-223.82	14.43	7.36
2011	2	0.79	0.32	-5.36	-25.40	0.03	-0.12	5.05	-224.46	15.61	7.62
2011	3	0.79	1.19	-4.43	-20.23	0.09	-0.50	6.42	-230.82	16.03	12.47
2011	4	0.21	1.19	-4.39	-20.30	0.18	0.24	6.69	-237.66	14.29	10.86
2012	1	0.21	0.28	-5.15	-24.76	-0.06	0.02	-3.12	-239.99	14.43	6.37
2012	2	0.79	0.28	-5.16	-24.72	-0.07	0.14	-3.13	-242.72	15.09	8.43
2012	3	0.79	1.06	-5.56	-26.57	-0.07	-0.37	-1.75	-243.36	15.23	4.46
2012	4	0.21	1.06	-5.55	-26.61	-0.01	0.49	-1.77	-239.29	14.83	4.67
2013	1	0.30	0.21	-0.60	-0.72	1.07	0.54	1.79	-1.10	-390.24	15.32
2013	2	1.10	0.21	-0.17	-1.05	0.68	0.46	-2.83	5.67	-360.37	4.69
2013	3	1.10	0.79	-0.20	-1.19	0.73	0.82	-1.66	-1.04	-351.48	3.47
2013	4	0.30	0.79	-0.49	-0.99	0.68	-0.35	0.91	-4.01	-371.20	15.07
2014	1	0.23	0.21	0.94	-0.72	0.66	-2.19	0.07	-3.10	-401.21	54.39

2014	2	0.86	0.21	-0.43	-0.66	0.61	-1.96	-1.08	-6.62	-416 12	43.80
2014	3	0.86	0.79	-0.32	-0.77	0.68	-0.42	-1.23	-6.65	-397 43	30.56
2014	4	0.23	0.79	0.48	-0.83	1.03	-1.90	0.56	-7.95	-416 31	51.35
2015	1	0.09	0.21	-1.99	1.04	0.57	-1.02	2.03	-19.73	-449.59	-69.31
2015	2	0.33	0.21	-2.53	1.04	0.39	-1.45	-1.58	-17.17	-461 20	-67.02
2015	3	0.33	0.79	-1.58	1.11	0.86	-1.20	-7.82	-10.71	-445 71	-71 02
2015	4	0.09	0.79	-1.29	0.99	1.36	-0.07	2.39	-11.93	-433.16	-58.53
2016	1	0.09	0.21	0.36	-3.25	0.45	9.83	2.15	-7 20	-487.31	69.86
2016	2	0.35	0.21	2.07	-2.72	0.44	9.28	-5.56	-15.23	-471.00	71.00
2016	3	0.35	0.79	1.27	-2.11	1.48	6.01	-7 24	-6.92	-452.97	79.54
2016	4	0.09	0.79	0.33	-2.45	1.50	5 21	15.56	-2.99	-463 49	97.99
2017	1	0.09	0.21	1.42	4.99	0 42	12.28	5 37	21.93	-494.24	-71.39
2017	2	0.33	0.21	3.83	5 62	0.43	16.14	-1.40	40.51	-506 60	-71 64
2017	3	0.33	0.79	2.04	3 50	1.41	9 27	-21 37	21.43	-454.53	-144.29
2017	4	0.09	0.79	0.93	3.12	1.47	7.32	3.38	16.16	-462 32	-117.90
2018	1	0.09	0.21	-4.25	-4.60	0.61	-0.34	0.12	154.97	-463.02	66.41
2018	2	0.32	0.21	-4.67	-4.99	0.37	-4.87	-4.33	119.43	-498.51	80 60
2018	3	0.32	0.79	-2.54	-2.77	0.53	-3.86	3.84	43.75	-435.63	177.53
2018	4	0.09	0.79	-2.37	-2.51	0.50	-1.13	13 91	43.69	-375.86	225.32
2019	1	0.13	0.21	-2.62	-3.40	-0.10	-3.19	2 44	-275.93	-386.79	10.16
2019	2	0.47	0.21	-3.47	-4.07	0.36	-5 10	0.70	-97.03	-427.77	59 63
2019	3	0.47	0.79	-1.83	-2 16	-0.07	-2.19	6.41	-193 83	-370.17	164.16
2019	4	0.13	0.79	-1.50	-1.98	-0.27	-1.75	5.56	-181.02	-414.21	94.36
2020	1	0.18	0.21	-20.18	-3.75	0.06	3 42	2.42	-36.35	-369.44	25.68
2020	2	0.67	0.21	-17.11	-4.17	2.10	6.80	3 60	-61.04	-407 08	41 52
2020	3	0.67	0.79	-14.27	-5.46	-0 08	7.24	0.94	-73.80	-426.98	66 03
2020	4	0.18	0.79	-19.08	-4.08	-0.97	3.66	3 36	-51 29	-381.01	62 07
2021	1	0.21	0.21	-25.78	-2.08	-1 34	3.64	-5 43	11 80	-420.34	16 78
2021	2	0.78	0.21	-22.74	-2.32	-1.67	5.29	3 47	-15.76	-536.26	17 55
2021	3	0.78	0 79	-22.55	-2.58	-3 16	6 34	2.55	-47 36	-549.09	46 87
2021	4	0.21	0.79	-25.52	-2.41	-2.16	1.95	-8 25	20.02	-419 54	40 62
2022	1	0.21	0.34	0.41	6.91	0.28	1.70	15 34	-230.47	21 18	23 19
2022	2	0.79	0.34	0.50	7.44	0 24	0.95	18 86	-234.21	25.88	25 46
2022	3	0.79	1.28	3.79	21.43	0.40	3.44	14 91	-197.07	9 27	32.55
2022	4	0.21	1.28	2.93	21.42	0.37	-1 92	14.92	-195 64	12.20	22.70
2023	1	0.21	0.29	-3.42	-14.21	0.10	0.59	13.28	-241 49	18.29	14.49
2023	2	0.79	0.29	-3.28	-14.15	-0.05	0.58	12.86	-243.93	17.89	14.15
2023	3	0.79	1.09	-1.54	-3.10	-0.13	-1.52	12.05	-240 39	17.22	14 47
2023	4	0.21	1.09	-1.31	-2.96	0.05	-0.57	14 71	-237 66	20.80	13 47
2024	1	0.21	0.32	-5.35	-25.37	0 00	0.48	5 05	-243.99	16.02	7 22
2024	2	0.79	0.32	-5.30	-25.33	-0.04	-0.12	5.10	-246.76	16.30	6.96
2024	3	0.79	1.19	-4.31	-20.18	-0.09	0.19	7 08	-245 55	16 90	10.68
2024	4	0.21	1.19	-4.51	-20.22	0.01	0.21	6.42	-243.77	17.11	11.37
2025	1	0.21	0.28	-5.15	-24.69	-0.08	0.06	-3.04	-244.93	15.49	0.37
2025	2	0.79	0.28	-5.12	-24.65	-0.09	0.11	-3 08	-247 70	15.82	0.25
2025	3	0.79	1.06	-5.53	-26.50	-0.07	-0.45	-1.76	-247 51	16.98	3.92
2025	4	0.21	1.06	-5.53	-26.52	-0.05	0.47	-1 67	-244.44	15.77	4.30
2026	1	0.30	0.21	-0.47	-0.87	0.70	-0.23	1.13	-1 35	-372.59	17.81
2026	2	1.10	0.21	-0.18	-1.16	0.48	0 24	-1 21	0.33	-346.40	2.89
2026	3	1.10	0.79	-0.14	-0.93	0.34	0 32	-0 28	-6 48	-342.69	2.22
2026	4	0.30	0.79	-0.56	-0.68	0.49	0.16	1 07	-4.29	-357.41	9.34
2027	1	0.23	0.21	-0.02	-0.59	1.11	-0 53	0 67	-5 94	-405 53	50.51
2027	2	0.86	0.21	-0.48	-0.75	0.71	-0 61	-1.10	-3.74	-384.21	28.92
2027	3	0.86	0.79	-0.65	-0.50	0.64	-0 32	-1.21	-2 35	-364 40	38.04
2027	4	0.23	0.79	-0.63	-0.25	0.90	-0.38	0.55	-5.36	-385 41	52 24
2028	1	0.09	0.21	-0.10	0.52	1 52	-1 79	2.04	-2 82	-412 05	-51 47
2028	2	0.33	0.21	-0.32	0.41	0 97	-0.02	-5 33	-2.24	-429 37	-77.59
2028	3	0.33	0.79	0.31	-0.17	0.69	-1.26	-6.55	5.99	-398 64	-75.94
2028	4	0.09	0.79	0.84	-0.07	1.08	-0.68	1.05	7.86	-388.79	-71 94
2029	1	0.09	0.21	0.31	-0.04	1 56	-0.33	16.61	-0.58	-420.29	104.80
2029	2	0.35	0.21	0.44	-0.14	1.61	-1.66	-7.41	-2.42	-423.09	84
2029	3	0.35	0.79	-0.26	1.30	0.85	-6.34	-6.36	5.08	-394.30	83.
2029	4	0.09	0.79	0.91	1.68	0.82	-7.23	8 17	0.12	-386.89	90.12
2030	1	0.09	0.21	-0.74	-0.[redacted]	1 39	-2.62	3.58	-14.54	-415.12	-118.09
2030	2	0.33	0.21	-0.65	-0.97	1.29	-5.02	-19.97	-15.87	-395.71	-142.64
2030	3	0.33	0.79	-3.01	-3.07	0 57	-7.75	-3 68	-27.25	-388.95	-92.37
2030	4	0.09	0.79	-1.92	-2.84	0.61	-5.43	5.13	-14.46	-386 73	-93.35
2031	1	0.09	0.21	0.39	0.98	0.42	0.86	8.85	-77.74	-388 74	126.65
2031	2	0.32	0.21	0.67	1.12	0.42	4.61	1 99	-52.54	-388 49	146 36
2031	3	0.32	0.79	3.07	2.73	0 29	6 37	-3 32	-33 82	-384 19	91.90
2031	4	0.09	0.79	2.00	2.40	0.43	4.22	2.50	-46.57	-404.90	92.39
2032	1	0.13	0.21	-0.71	0.16	-0.07	1.98	4.54	-44.60	-467 71	139.62
2032	2	0.47	0.21	-0.36	0.56	-0.05	3.28	4.59	-104.39	-423.10	97.32
2032	3	0.47	0.79	0.88	2.09	0.23	5.65	0.27	-64.91	-433.05	92.29
2032	4	0.13	0.79	-0.57	1.62	0.26	3.95	0 89	-82.32	-467.87	95.17
2033	1	0.18	0.21	-19.42	-4.56	-2.04	5.30	-2.32	-87 55	-376.24	99.86
2033	2	0.67	0.21	-14.56	-5.89	-2.55	7.09	-4.46	-91.16	-412.69	69.42
2033	3	0.67	0.79	-17.77	-5.43	-4.50	6 91	-6.08	-118 81	-361.56	34.45
2033	4	0.18	0.79	-20.99	-5.22	-3.16	5.46	0 52	-157.93	-334.02	68.43
2034	1	0.21	0.21	-25.46	-2.15	-3.84	-3.11	-15.13	25.28	-439.16	55.76
2034	2	0.78	0.21	-22.27	-3.79	-4.95	3.31	5.61	-26.51	-575.50	101.52
2034	3	0.78	0.79	-23.24	-7.74	-6.93	5.03	2.20	-174 75	-542.49	131.90
2034	4	0.21	0.79	-28.13	-7.11	-4.91	3 90	-22.52	-231 25	-507.11	148.37
2035	1	0.21	0.34	0.64	7.33	-0.34	0 69	13.25	-245.59	19.90	22.38
2035	2	0.79	0.34	1.68	6.68	-0.80	1.21	14.86	-256.27	11.17	13 39
2035	3	0.79	1.28	5.91	23.64	-0.33	30.85	17.97	-222.15	20.24	73.41
2035	4	0.21	1.28	0.92	21 28	-0.15	-10 63	10 18	-202.02	9 47	40.08
2036	1	0.21	0.29	-2.97	-14.02	-0.12	1.25	14 16	-247 40	16 99	13.25
2036	2	0.79	0.29	-2.67	-14.02	-0.11	-0.20	13.19	-249 93	15.47	11.81
2036	3	0.79	1.09	-0.39	-2.60	-0 10	-4.53	17.51	-243.94	13.31	17.42
2036	4	0.21	1.09	-0.47	-2.79	-0.06	4.73	15.92	-239.16	17.33	17.15
2037	1	0.21	0.32	-5.25	-25.35	-0.05	0.57	5.21	-248.87	15.56	6.84
2037	2	0.79	0.32	-5.18	-25.33	-0.04	-0.35	5.30	-251.56	15.61	6 58
2037	3	0.79	1.19	-3.94	-20.19	-0.01	1.20	6.71	-249 08	14 55	11.44
2037	4	0.21	1.19	-4.25	-20.22	-0.12	-0.27	6.19	-247.19	15.96	9.95
2038	1	0.21	0.28	-5.11	-24.63	-0.09	0.06	-3 02	-249.86	15 93	0.21
2038	2	0.79	0.28	-5.07	-24.59	-0 10	0.18	-3.14	-252.69	16.04	0 07
2038	3	0.79	1.06	-5.45	-26.44	-0.05	-0.39	-1.66	-252.16	15.28	4.09
2038	4	0.21	1.06	-5.46	-26.47	-0.07	0.54	-1.68	-249.18	16 04	3.97
2039	1	0.30	0.21	-0.74	-0.39	0 32	-0.30	-0.22	-17 14	-334.59	10.99
2039	2	1.10	0.21	-0.33	-0.68	-0.04	-0.22	0.65	-11.50	-344.77	-6.25
2039	3	1.10	0.79	-0.66	0.02	0.00	3 18	1 79	6.21	-351.35	-23.31
2039	4	0.30	0.79	-0.99	0.20	0.18	-0 81	0.56	-27.70	-304.90	26 30
2040	1	0.23	0.21	-0.86	0.00	0.50	-0.10	0 97	2.45	-363.77	66.07
2040	2	0.86	0.21	-0.67	-0.23	0 57	-0 19	1.17	-11.65	-351.33	41 91
2040	3	0.86	0.79	-0.51	0.33	0 58	-0 03	0 89	-30 82	-317.05	31 70
2040	4	0.23	0.79	-0.87	0.27	0.29	0.14	1 05	21.64	-355.65	93.04
2041	1	0.09	0.21	0.98	-0.29	0.59	-1.06	1.09	12.78	-390 [illegible]	-73.99
2041	2	0.33	0.21	0.83	-0.47	0.31	-2.89	-3.84	12.67	-367 [illegible]	-73 99
2041	3	0.33	0.79	0.53	-0.52	0.02	-1.67	-0.66	7.98	-332 [illegible]	-69.16
2041	4	0.09	0.79	0.74	-0.51	0.24	-1.18	-0 42	2.90	-396.63	-61 09
2042	1	0.09	0.21	1.26	1.55	0.29	-7 22	1 15	-1.23	-385 17	79 57
2042	2	0.35	0.21	-0.25	1.28	0.28	-4.99	-2.31	5.90	-380.01	74.10
2042	3	0.35	0.79	0.05	0.65	-0.00	-5.21	-1 42	4.89	-382.93	70.16
2042	4	0.09	0.79	1.32	1.14	-0.01	-5.01	-0 41	0.10	-364 71	66 29
2043	1	0.09	0.21	-1.95	-2.10	0.17	-4.25	3 69	-9.26	-384.67	-76 81

2043	2	0.33	0.21	-3.28	-2.27	0.22	-4.81	-1.20	-18.49	-389.70	-75.63
2043	3	0.33	0.79	-2.93	-1.37	-0.07	-3.78	3.19	-11.81	-401.46	-53.90
2043	4	0.09	0.79	-2.11	-1.17	-0.08	-4.15	0.50	-5.75	-394.45	-61.08
2044	1	0.09	0.21	2.09	1.96	0.34	3.80	-0.92	-37.87	-414.82	66.95
2044	2	0.32	0.21	3.31	2.17	0.21	3.27	-3.50	-28.44	-398.05	71.98
2044	3	0.32	0.79	2.93	1.23	-0.02	3.22	-1.57	-15.33	-407.08	50.29
2044	4	0.09	0.79	2.05	1.11	0.00	3.78	-1.76	-21.64	-415.96	51.51
2045	1	0.13	0.21	-0.73	1.48	0.32	4.25	-1.05	-67.74	-444.11	72.84
2045	2	0.47	0.21	1.15	1.82	0.27	5.60	-1.46	-32.05	-422.76	71.36
2045	3	0.47	0.79	0.92	1.03	0.07	5.33	-1.71	-30.96	-420.12	50.83
2045	4	0.13	0.79	-1.09	0.77	0.23	5.58	-2.05	-38.42	-424.55	54.57
2046	1	0.18	0.21	-22.74	-5.88	-3.23	6.23	0.47	-217.53	-322.57	42.48
2046	2	0.67	0.21	-20.36	-4.89	-4.51	3.29	-4.90	-182.51	-315.60	-4.14
2046	3	0.67	0.79	-23.39	-4.87	-3.55	3.62	-5.41	-201.20	-262.11	-43.18
2046	4	0.18	0.79	-24.74	-6.18	-2.63	4.81	0.60	-248.74	-315.62	-59.66
2047	1	0.21	0.21	-31.43	-13.71	-4.84	18.20	-26.37	-429.02	-694.88	-60.99
2047	2	0.78	0.21	-25.57	-10.96	-6.99	9.50	4.05	-303.51	-464.58	73.50
2047	3	0.78	0.79	-26.79	-11.65	-5.71	8.47	12.67	-323.18	-405.39	-80.38
2047	4	0.21	0.79	-31.97	-14.56	-4.06	19.07	-9.20	-428.45	-729.05	-28.55
2048	1	0.21	0.34	3.03	6.74	-0.20	1.94	17.66	-242.02	6.73	14.00
2048	2	0.79	0.34	3.22	6.73	0.76	0.52	17.67	-248.64	-3.74	23.86
2048	3	0.79	1.28	8.50	25.36	0.52	17.03	28.51	-315.68	11.96	34.30
2048	4	0.21	1.28	8.06	24.64	0.21	-16.86	28.24	-309.41	10.22	53.70
2049	1	0.21	0.29	-2.54	-14.15	0.01	0.33	14.41	-296.64	11.38	12.97
2049	2	0.79	0.29	-2.48	-14.08	0.36	0.79	14.34	-251.37	9.96	17.01
2049	3	0.79	1.09	0.36	-2.43	0.37	-8.28	14.30	-256.39	4.67	17.65
2049	4	0.21	1.09	0.23	-2.65	-0.05	7.36	13.74	-258.75	7.85	21.90
2050	1	0.21	0.32	-5.13	-25.29	0.01	0.68	5.02	-253.23	15.11	7.36
2050	2	0.79	0.32	-5.12	-25.22	0.07	-0.17	5.02	-256.43	15.06	8.59
2050	3	0.79	1.19	-4.01	-20.13	0.09	1.15	7.15	-254.97	13.90	13.93
2050	4	0.21	1.19	-4.04	-20.19	0.05	-1.31	7.13	-251.88	13.29	11.44
2051	1	0.21	0.28	-5.06	-24.57	-0.10	0.03	-2.99	-254.90	16.20	0.16
2051	2	0.79	0.28	-5.05	-24.51	-0.06	0.24	-2.99	-258.19	16.66	0.19
2051	3	0.79	1.06	-5.38	-26.34	-0.04	-0.76	-1.60	-257.67	16.04	4.66
2051	4	0.21	1.06	-5.39	-26.40	-0.09	0.73	-1.62	-256.42	15.85	4.54
2052	1	0.30	0.25	-1.14	0.73	0.34	-1.80	-0.68	-20.67	-286.31	-4.86
2052	2	1.10	0.37	-1.34	1.42	-0.19	0.67	2.41	3.05	-365.06	-19.57
2052	3	1.10	0.95	-3.54	1.50	0.29	0.26	-9.42	-46.71	-427.26	47.30
2052	4	0.30	0.83	-0.66	1.10	0.72	-2.06	0.46	20.64	-175.44	-124.66
2053	1	0.23	0.21	-0.57	0.55	0.25	-0.44	0.84	10.49	-386.73	91.42
2053	2	0.86	0.21	-0.47	0.51	0.64	1.14	1.22	-20.69	-257.57	20.91
2053	3	0.86	0.79	-0.70	-0.32	0.56	1.46	0.67	18.15	-198.20	216.92
2053	4	0.23	0.79	-0.07	0.64	0.45	-0.77	0.92	-10.46	-431.32	69.22
2054	1	0.09	0.21	0.47	-0.49	0.69	-0.68	-0.45	13.14	-351.97	-75.59
2054	2	0.33	0.21	0.22	-0.42	0.63	-0.53	-0.07	8.92	-387.42	-70.83
2054	3	0.33	0.79	-0.61	-0.69	-0.01	-2.33	-0.36	10.37	-410.29	-62.67
2054	4	0.09	0.79	-0.26	-0.52	0.05	-1.84	-0.50	7.97	-415.53	-79.90
2055	1	0.09	0.21	1.42	0.66	-0.16	-4.55	-2.34	3.66	-400.21	56.14
2055	2	0.35	0.21	0.34	0.47	-0.16	-5.41	0.68	6.36	-397.23	63.41
2055	3	0.35	0.79	1.10	0.78	-0.34	-3.34	4.05	3.64	-409.69	55.82
2055	4	0.09	0.79	1.98	1.01	-0.34	-3.91	-0.23	-1.46	-419.75	47.33
2056	1	0.09	0.21	-2.18	-0.77	-0.24	-3.50	-1.09	-5.83	-404.19	-51.96
2056	2	0.33	0.21	-2.73	-0.89	-0.25	-2.85	1.26	-9.98	-410.38	-42.48
2056	3	0.33	0.79	-2.66	-1.01	-0.42	-0.64	3.71	-9.21	-423.45	-30.38
2056	4	0.09	0.79	-2.31	-0.97	-0.40	-0.99	-4.96	-3.28	-427.20	-40.50
2057	1	0.09	0.21	1.75	0.66	-0.05	4.04	-1.27	-18.68	-417.68	38.41
2057	2	0.32	0.21	2.64	0.81	-0.16	3.36	1.19	-13.20	-419.47	44.77
2057	3	0.32	0.79	2.33	0.77	-0.31	4.20	2.94	-18.26	-427.51	27.63
2057	4	0.09	0.79	1.08	0.55	-0.45	4.79	-1.20	-27.01	-431.81	21.56
2058	1	0.13	0.21	-1.54	0.26	0.05	6.39	-1.68	-35.90	-415.90	41.[illegible]
2058	2	0.47	0.21	0.55	0.56	-0.13	5.54	-1.04	-29.11	-420.35	35
2058	3	0.47	0.79	-0.02	0.29	-0.24	6.37	-0.70	-23.18	-426.59	18.06
2058	4	0.13	0.79	-2.20	-0.18	0.00	5.74	-1.41	-55.47	-410.32	9.62
2059	1	0.18	0.21	-25.79	-5.75	-2.15	5.45	3.78	-207.17	-312.16	-75.93
2059	2	0.67	0.21	-24.86	-4.51	-2.48	2.87	-0.93	-196.35	-338.41	-40.47
2059	3	0.67	0.79	-25.37	-3.90	-1.27	2.64	-1.45	-187.73	-336.13	-68.36
2059	4	0.18	0.79	-26.23	-4.91	-1.61	3.63	3.58	-122.29	-378.37	-97.79
2060	1	0.21	0.21	-29.96	-10.15	-2.91	7.35	-0.54	-271.68	-737.89	-213.24
2060	2	0.78	0.21	-26.37	-9.17	-4.62	3.90	12.56	-226.06	-544.65	-139.38
2060	3	0.78	0.79	-27.13	-5.09	-3.84	2.72	12.34	-64.33	-615.69	-114.69
2060	4	0.21	0.79	-27.88	-5.07	-2.40	-0.96	-2.86	5.87	-590.42	-52.57
2061	1	0.21	0.34	2.18	6.84	1.52	0.56	15.31	-256.92	-5.55	29.36
2061	2	0.79	0.34	1.21	7.73	1.26	1.41	14.27	-254.48	4.36	33.34
2061	3	0.79	1.28	1.93	22.65	0.96	7.65	12.68	-261.20	1.31	10.06
2061	4	0.21	1.28	6.88	24.73	1.15	-31.22	20.65	-316.75	7.15	4.62
2062	1	0.21	0.29	-2.56	-13.86	0.51	1.27	13.40	-255.36	9.99	20.04
2062	2	0.79	0.29	-2.82	-13.70	0.58	-0.29	14.39	-259.32	12.47	22.25
2062	3	0.79	1.09	-0.16	-2.42	0.56	-6.33	15.69	-262.09	8.90	25.33
2062	4	0.21	1.09	-0.14	-2.38	0.46	4.13	17.50	-297.59	6.71	22.47
2063	1	0.21	0.32	-5.15	-25.18	0.10	0.91	5.32	-259.22	15.65	9.42
2063	2	0.79	0.32	-5.21	-25.06	0.15	-0.12	5.24	-263.30	14.90	10.42
2063	3	0.79	1.19	-4.17	-19.92	0.32	0.26	6.31	-259.39	14.97	17.09
2063	4	0.21	1.19	-3.88	-20.03	0.18	-1.62	6.79	-258.26	13.31	14.26
2064	1	0.21	0.28	-5.06	-24.46	-0.06	0.08	-2.11	-260.99	17.11	0.37
2064	2	0.79	0.28	-5.09	-24.38	-0.09	0.20	-2.95	-264.74	16.07	0.38
2064	3	0.79	1.06	-5.43	-26.20	0.00	-0.67	-1.69	-264.50	17.03	5.96
2064	4	0.21	1.06	-5.40	-26.29	-0.03	0.76	-1.68	-259.84	16.82	5.91
2065	1	0.36	0.08	2.60	-0.08	0.02	-6.97	0.31	-27.36	21.11	-24.05
2065	2	1.35	0.08	-7.18	0.31	1.85	-9.42	6.93	-68.17	-86.64	10.38
2065	3	1.35	0.32	-6.57	0.78	-0.93	-9.66	-7.10	-146.56	1.15	-70.29
2065	4	0.36	0.32	2.10	-0.19	0.16	-13.58	1.32	-127.19	29.44	21.89
2066	1	0.32	0.08	12.65	0.10	0.08	-4.22	1.31	-93.09	15.10	-19.22
2066	2	1.19	0.08	7.35	-0.29	-0.06	-4.82	-3.59	-84.06	-13.37	20.39
2066	3	1.19	0.32	7.80	-0.30	0.61	-5.79	1.14	-171.11	-39.28	-22.98
2066	4	0.32	0.32	12.27	0.02	0.10	-8.03	2.01	-121.92	16.06	15.77
2067	1	0.28	0.08	-14.79	0.34	0.26	-1.12	1.27	-99.06	-12.72	-15.54
2067	2	1.06	0.08	-16.85	-0.02	0.12	-1.84	-1.66	-106.69	1.76	16.91
2067	3	1.06	0.32	-16.66	0.03	0.11	-3.79	-2.49	-108.58	-0.20	-14.24
2067	4	0.28	0.32	-15.12	-0.04	0.04	-2.54	2.67	-116.26	-6.74	17.81
2068	1	0.17	0.12	20.57	-0.29	0.27	-7.15	1.51	-315.43	-102.27	30.41
2068	2	0.62	0.12	15.56	0.79	0.63	-7.51	-0.17	-266.90	-169.71	-5.70
2068	3	0.53	0.45	16.90	0.62	1.71	-8.28	-0.39	-295.96	-132.03	-16.98
2068	4	0.14	0.44	21.34	-0.10	1.35	-7.69	3.76	-313.85	-79.28	22.68
2069	1	0.12	0.12	11.78	1.32	0.61	-8.41	0.33	-292.51	-260.80	-48.13
2069	2	0.58	0.13	7.40	1.68	1.09	-6.58	-1.56	-248.99	-260.69	-51.11
2069	3	0.37	0.50	9.34	1.29	1.78	-6.90	-2.17	-229.77	-221.01	-81.24
2069	4	-0.02	0.47	13.39	1.02	1.80	-9.31	1.04	-267.19	-163.58	-57.05
2070	1	0.08	0.14	4.81	1.40	1.26	-7.34	-1.09	-194.47	-211.79	-5.46
2070	2	0.53	0.16	1.99	0.72	1.32	-6.74	-2.31	-142.63	-288.92	2.26
2070	3	0.19	0.59	3.81	0.71	1.42	-5.90	-1.39	-148.70	-258.75	-57.31
2070	4	-0.18	0.53	6.60	1.02	1.62	-7.59	-1.46	-202.31	-302.47	-74.31
2071	1	0.13	0.12	22.01	0.33	1.52	-7.36	0.76	-319.71	-69.06	22.39
2071	2	0.47	0.12	17.85	0.68	1.64	-10.02	2.16	-301.03	-78.10	-19.32
2071	3	0.39	0.45	20.07	0.91	2.74	-13.01	0.21	-295.61	-29.59	-35.01
2071	4	0.12	0.44	24.42	0.54	1.33	-20.45	4.97	-329.43	-1.70	12.26
2072	1	0.10	0.13	14.30	0.36	0.79	-10.43	2.45	-297.92	105.90	-43.34

2072	2	0.43	0.14	10.80	0.83	0.66	-11.41	-0.38	-268.50	-168.97	-97.54
2072	3	0.27	0.53	12.72	0.94	2.47	-6.37	-1.23	-273.98	-73.79	-95.95
2072	4	0.00	0.48	17.18	0.80	2.03	-10.74	1.59	-285.02	-32.02	-43.37
2073	1	0.06	0.16	8.50	0.51	0.23	-10.68	0.14	-253.96	-204.10	-119.78
2073	2	0.39	0.18	5.47	-0.07	0.31	-10.07	-2.81	-219.53	-291.03	-141.95
2073	3	0.14	0.67	6.90	0.33	1.35	-4.11	-0.68	-291.78	-166.59	-179.66
2073	4	-0.12	0.59	10.26	0.55	1.59	-5.72	-0.15	-293.51	-92.37	-121.03
2074	1	0.16	0.12	-23.65	0.46	-0.08	-4.54	-1.17	-318.27	-99.51	-17.69
2074	2	0.61	0.12	-25.92	1.34	-0.71	-3.08	-1.85	-267.66	-105.0e	-76.78
2074	3	0.52	0.45	-26.73	1.36	-0.40	-3.92	-3.92	-306.48	-89.58	-54.11
2074	4	0.14	0.44	-24.17	0.90	0.74	-6.70	-2.28	-218.91	-84.69	-36.09
2075	1	0.12	0.12	-26.36	0.97	-1.25	-0.89	-1.02	-300.65	-112.03	2.41
2075	2	0.57	0.13	-25.79	-0.46	-1.79	-1.40	-2.67	-264.56	-252.47	-7.50
2075	3	0.36	0.50	-27.22	0.71	-3.33	-3.37	0.15	-299.27	-189.22	-22.29
2075	4	-0.01	0.47	-27.31	1.40	-1.62	-4.30	-2.79	-288.23	-141.91	-46.58
2076	1	0.08	0.14	-25.13	-1.26	-2.05	0.20	-1.49	-223.46	-291.52	-30.57
2076	2	0.52	0.16	-24.62	-2.43	-2.48	-0.96	-0.14	-177.77	-364.90	-60.68
2076	3	0.19	0.58	-25.37	-2.91	-4.54	-8.22	-4.18	-222.78	-284.50	-82.33
2076	4	-0.18	0.53	-26.11	-0.45	-4.00	-7.67	-1.42	-261.56	-223.50	-58.18
2077	1	0.13	0.12	-24.51	-0.14	2.92	-4.73	-5.25	-315.61	-59.15	-35.20
2077	2	0.46	0.12	-27.22	0.90	2.14	0.24	-6.95	-322.15	-65.74	-52.73
2077	3	0.39	0.45	-29.28	-0.07	-0.15	-31.44	-8.76	-358.0e	-43.68	-61.55
2077	4	0.12	0.44	-26.69	-0.51	1.99	-25.72	-3.87	-347.38	-21.16	-15.72
2078	1	0.10	0.13	-28.19	1.12	3.50	4.59	-5.63	-308.96	-64.66	-74.14
2078	2	0.43	0.14	-28.71	2.00	2.18	9.08	-4.99	-319.23	-76.89	-45.50
2078	3	0.27	0.52	-30.73	0.31	-1.97	-37.23	-12.28	-349.28	-42.16	-97.22
2078	4	0.00	0.48	-30.23	0.11	0.40	-35.67	-9.72	-374.61	-19.30	-61.20
2079	1	0.06	0.16	-28.33	1.78	3.07	15.05	-1.68	-297.96	-144.63	-60.25
2079	2	0.39	0.18	-27.23	1.91	1.45	13.70	6.26	-279.23	-193.69	-93.60
2079	3	0.14	0.66	-29.41	1.20	-3.56	-32.36	-18.20	-295.30	-106.30	-121.52
2079	4	-0.11	0.59	-30.70	1.16	-1.14	-37.81	-12.60	-338.50	-63.76	-80.68
2080	1	0.36	0.12	-3.55	-25.08	3.43	-1.66	3.34	-376.97	-178.13	80.27
2080	2	0.90	0.10	-4.06	-23.91	4.82	0.71	1.19	-385.02	-179.96	128.45
2080	3	1.21	0.37	-3.49	-23.61	6.24	-3.26	2.56	-315.98	-183.76	129.89
2080	4	0.76	0.46	-2.55	-23.43	4.11	-2.99	3.97	-212.14	-205.42	100.42
2081	1	0.30	0.09	-4.37	-22.59	6.11	-0.01	5.22	-290.80	-220.78	105.45
2081	2	0.85	0.07	-5.17	-19.36	7.43	3.44	3.29	-361.01	-169.35	56.44
2081	3	1.01	0.27	-5.42	-17.67	9.17	4.73	4.95	-375.87	-137.09	73.67
2081	4	0.54	0.32	-3.35	-21.74	7.15	2.05	0.55	-307.12	-183.94	119.55
2082	1	0.25	0.07	-6.54	-15.56	7.46	3.75	6.23	-424.52	-125.63	16.95
2082	2	0.80	0.06	-7.45	-11.10	4.73	-1.85	9.50	-496.76	-103.48	-57.17
2082	3	0.83	0.22	-8.92	-7.93	4.97	-0.56	9.80	-529.92	-77.75	-36.83
2082	4	0.35	0.24	-7.07	-12.22	8.62	3.31	7.52	-449.99	-88.83	34.71
2083	1	0.27	0.16	-5.79	-22.43	12.73	11.01	-5.03	-322.37	-155.74	92.79
2083	2	0.66	0.13	-7.24	-18.51	14.23	15.93	0.25	-347.99	-112.99	95.75
2083	3	0.89	0.47	-11.74	-11.70	12.86	-42.41	16.56	-339.59	-70.29	121.82
2083	4	0.57	0.59	-8.43	-17.24	13.52	-30.37	20.67	-275.20	-118.89	141.53
2084	1	0.24	0.10	-7.10	-17.80	14.03	13.44	7.62	-347.99	-113.99	101.76
2084	2	0.65	0.08	-9.71	-10.79	12.54	4.01	6.50	-415.56	-84.70	45.19
2084	3	0.78	0.30	-12.97	-3.78	8.18	-45.76	12.46	-448.19	-34.09	71.90
2084	4	0.44	0.37	-10.83	-9.17	11.47	-44.13	17.11	-355.97	-76.35	124.71
2085	1	0.20	0.07	-9.47	-8.43	9.56	1.63	11.72	-470.57	-62.69	33.76
2085	2	0.62	0.06	-10.62	-4.29	4.45	-3.08	9.60	-5e3.23	-62.49	-50.79
2085	3	0.64	0.23	-11.28	-0.68	1.57	-19.86	5.06	-e37.26	-22.90	-22.38
2085	4	0.29	0.25	-11.90	-3.61	6.26	-39.13	11.99	-447.02	-38.35	79.26
2086	1	0.20	0.06	-6.93	-10.56	0.69	2.50	9.31	-5t6.26	-108.47	-101.62
2086	2	0.75	0.07	-4.99	-14.42	-2.56	-4.61	7.60	-559.49	-108.0e	-10e.03
2086	3	0.65	0.24	-5.96	-10.67	-4.00	-3.85	4.10	-546.10	-112.20	-123.96
2086	4	0.17	0.22	-8.29	-7.20	0.21	1.40	9.86	-568.67	-95.35	-98.09
2087	1	0.15	0.07	-3.08	-18.35	-3.06	-3.39	3.13	-464.01	-87.83	-83.79
2087	2	0.70	0.09	-2.36	-22.05	-2.24	-3.33	5.24	-417.38	-77.58	-5[illegible]
2087	3	0.46	0.32	-1.40	-20.90	-3.70	-4.09	0.37	-437.54	-94.37	-9[illegible]
2087	4	-0.01	0.27	-3.59	-16.14	-5.10	-5.72	6.26	-501.71	-105.59	-116.86
2088	1	0.10	0.10	-2.55	-23.88	-1.23	-4.53	-0.81	-380.04	-83.99	-27.75
2088	2	0.64	0.12	-2.81	-25.69	-0.02	-1.48	1.87	-342.58	-111.71	14.17
2088	3	0.24	0.46	-1.28	-23.78	-1.11	0.67	2.96	-340.30	-122.73	-52.09
2088	4	-0.21	0.37	-1.75	-23.30	-2.86	0.24	2.07	-397.83	-99.13	-75.87
2089	1	0.16	0.06	-9.67	-4.29	0.66	0.84	9.79	-625.91	-62.55	-53.19
2089	2	0.58	0.07	-7.75	-7.00	-4.81	-2.27	13.09	-611.52	-92.64	-115.75
2089	3	0.49	0.25	-9.34	-2.78	-3.72	17.68	10.09	-725.83	-51.73	-137.91
2089	4	0.14	0.23	-10.37	-0.67	0.80	-6.27	4.19	-714.59	-19.24	-19.93
2090	1	0.12	0.08	-7.03	-9.88	-8.37	-3.91	7.93	-573.67	-84.42	-90.58
2090	2	0.53	0.10	-4.32	-17.09	-10.70	-14.25	9.90	-485.58	-74.84	-77.60
2090	3	0.33	0.37	-7.53	-7.95	-8.90	35.61	15.74	-562.72	-89.66	-181.03
2090	4	-0.01	0.30	-9.61	-2.75	-5.53	30.20	10.73	-707.65	-58.55	-131.24
2091	1	0.07	0.13	-4.16	-18.91	-11.82	-16.99	1.13	-437.61	-73.67	-53.50
2091	2	0.46	0.16	-3.23	-23.74	-10.85	-14.13	-5.37	-361.71	-99.44	-30.69
2091	3	0.16	0.59	-5.77	-17.21	-12.47	27.32	21.16	-358.65	-93.48	-140.27
2091	4	-0.16	0.47	-8.30	-11.03	-10.63	36.63	16.44	-495.56	-38.95	-141.36
2092	1	0.29	0.16	-25.64	-1.94	-0.75	-0.49	3.48	-141.42	-213.83	-29.02
2092	2	0.74	0.14	-27.03	-0.73	-0.65	-1.73	-0.02	-181.94	-249.99	2.10
2092	3	1.00	0.53	-27.70	0.35	1.85	6.71	0.65	-168.26	-259.59	64.14
2092	4	0.63	0.58	-26.27	-1.98	1.80	7.92	-3.17	-142.84	-297.82	42.84
2093	1	0.25	0.13	-28.27	0.13	-0.50	-1.02	-0.65	-208.11	-198.19	17.67
2093	2	0.69	0.12	-29.80	1.55	-0.40	-0.39	0.51	-279.32	-236.99	64.22
2093	3	0.83	0.47	-30.48	2.13	0.35	3.14	-1.30	-242.33	-145.73	38.65
2093	4	0.45	0.50	-29.51	1.42	1.63	2.32	2.75	-211.41	-194.13	68.36
2094	1	0.20	0.12	-30.00	1.95	-0.53	1.25	-0.20	-230.16	-127.38	-31.25
2094	2	0.65	0.12	-28.34	1.60	-0.71	3.84	-0.36	-268.34	-76.63	-22.61
2094	3	0.68	0.44	-28.61	1.38	-1.47	5.89	-2.17	-292.53	-78.18	-16.95
2094	4	0.29	0.45	-30.60	2.09	-0.60	2.41	-2.91	-275.36	-108.97	1.91
2095	1	0.22	0.18	-26.94	2.19	-4.01	-17.32	9.79	-198.84	-246.25	115.30
2095	2	0.54	0.16	-28.95	2.15	-5.44	-19.53	0.77	-234.16	-164.75	97.49
2095	3	0.72	0.59	-31.11	1.78	-0.17	39.27	-12.89	-266.24	-77.91	105.73
2095	4	0.46	0.66	-28.59	2.01	1.89	32.54	-16.32	-261.98	-138.75	152.50
2096	1	0.19	0.14	-30.46	2.71	-4.23	-13.24	-2.84	-256.76	-142.80	85.79
2096	2	0.52	0.13	-30.97	1.62	-5.26	-9.25	-4.96	-262.31	-86.80	23.08
2096	3	0.62	0.48	-33.01	0.43	-1.25	38.73	-10.26	-271.66	-33.40	36.33
2096	4	0.35	0.53	-32.24	0.92	0.96	39.47	-12.24	-249.46	-62.30	82.39
2097	1	0.16	0.12	-30.83	1.46	-3.47	-3.37	-6.49	-280.43	-75.46	13.83
2097	2	0.50	0.12	-28.74	0.13	-3.99	2.43	-5.94	-293.24	-71.82	-23.39
2097	3	0.51	0.44	-31.13	-0.51	-2.59	28.92	-4.75	-314.82	-11.71	-17.25
2097	4	0.23	0.45	-32.94	0.11	-0.49	34.01	-9.35	-283.86	-22.60	28.34
2098	1	0.17	0.12	-25.49	0.92	-0.79	6.60	-1.07	-256.78	-76.84	-57.92
2098	2	0.62	0.12	-20.40	-0.26	-0.69	8.17	0.19	-236.30	-157.51	-21.98
2098	3	0.53	0.45	-21.51	-0.41	-2.09	8.34	0.96	-236.44	-202.48	-56.21
2098	4	0.14	0.44	-26.00	0.55	-1.93	7.01	-3.77	-267.80	-94.04	-38.06
2099	1	0.12	0.12	-16.33	-0.92	-0.45	8.58	-0.96	-227.60	-159.71	2.10
2099	2	0.58	0.13	-11.36	-1.51	-0.12	7.00	0.02	-188.38	-234.51	-9.36
2099	3	0.37	0.50	-13.16	-1.83	-1.49	6.55	1.36	-242.09	-192.50	-41.24
2099	4	-0.02	0.47	-17.69	-1.10	-1.96	8.91	-1.47	-213.11	-179.47	19.75
2100	1	0.08	0.14	-8.41	-1.49	0.14	7.25	-1.56	-196.28	-291.19	-16.09
2100	2	0.53	0.16	-5.09	-1.23	0.27	6.04	-0.64	-165.49	-270.14	-26.13
2100	3	0.19	0.59	-7.06	-2.34	-0.32	9.13	-1.12	-123.35	-318.84	-77.76
2100	4	-0.18	0.53	-10.16	-2.09	-0.97	7.12	0.85	-274.07	-230.13	-63.91
2101	1	0.13	0.12	-26.56	-0.11	-2.06	6.39	-6.59	-296.19	-75.55	-36.46

2101	2	0.47	0.12	-22.36	-0.89	-2.17	9.73	-2.89	-257.99	-53.16	-123.44	2115	4	-0.16	0.48	-0.10	-1.25	-1.30	0.63	-0.71	-577.12	-79.96	-164.07
2101	3	0.39	0.45	-24.81	-1.12	-3.34	13.86	-0.88	-392.32	-25.35	-64.30	2116	1	0.13	0.21	-2.66	-0.58	0.18	6.58	-2.26	-64.93	-423.06	-20.
2101	4	0.12	0.44	-29.20	-0.57	-1.71	21.53	-5.25	-341.79	-30.44	-31.65	2116	2	0.47	0.21	-0.69	0.11	-0.03	6.87	-1.44	-38.85	-441.88	-8
2102	1	0.10	0.13	-19.11	-1.08	-0.75	11.36	-3.08	-326.60	-24.49	-18.15	2116	3	0.47	0.79	-1.80	-1.08	0.59	5.65	-4.16	-68.80	-488.63	-40.88
2102	2	0.43	0.14	-14.61	-1.58	-0.78	11.17	0.40	-291.05	-158.96	-55.77	2116	4	0.13	0.79	-3.00	-1.83	0.61	4.54	-2.73	-46.51	-445.00	-71 04
2102	3	0.27	0.53	-16.78	-1.44	-3.23	5.52	0.67	-361.43	-65.67	-90.34	2117	1	0.09	0.21	0.58	0.69	-0.33	6.25	-2.41	-21.40	-443.10	1 62
2102	4	0.00	0.48	-21.79	-0.94	-2.46	9.88	-2.12	-396.67	-35.94	-64.72	2117	2	0.32	0.21	1.92	1.10	-0.26	7.57	2.65	-13.75	-442.08	18.35
2103	1	0.06	0.16	-11.71	-1.90	0.09	10.44	-0.75	-292.87	-162.08	-60.06	2117	3	0.32	0.79	0.18	-0.03	-0.06	7.33	-3.96	-42.37	-469.76	-12.29
2103	2	0.39	0.18	-8.32	-2.36	0.05	9.49	1.68	-259.50	-198.52	-104.32	2117	4	0.09	0.79	-0.94	-0.51	0.21	3.83	-5.66	-49.44	-488.47	-4 78
2103	3	0.14	0.67	-10.04	-2.01	-2.56	2.82	1.59	-313.18	-108.80	-135.52	2118	1	0.09	0.21	-2.55	-1.87	-0.53	0.20	-5.20	-12.80	-433.73	-32.53
2103	4	-0.12	0.59	-14.02	-1.34	-2.36	4.70	0.17	-350.12	-56.02	-100.95	2118	2	0.33	0.21	-2.48	-1.88	-0.51	-1.21	1.26	-20.19	-443.77	-27.48
2104	1	0.36	0.13	-1.33	-4.28	-0.34	-1.30	-5.84	-396.05	-86.02	44.97	2118	3	0.33	0.79	-0.87	-0.55	-0.65	1.95	13.27	-12.94	-463.64	2 90
2104	2	0.90	0.10	-2.49	-3.81	-0.56	-1.44	-4.09	-432.99	-156.95	110.21	2118	4	0.09	0.79	-1.95	-0.67	-0.66	5.07	-0.31	-12.14	-471.40	-23.77
2104	3	1.21	0.38	-3.35	-4.29	0.12	0.13	-3.19	-371.81	-182.43	143.56	2119	1	0.09	0.21	2.37	1.61	-0.53	-2.72	-4.52	-6.80	-431.49	39.34
2104	4	0.77	0.47	-2.41	-5.51	-0.61	0.26	-5.21	-338.50	-162.60	98.48	2119	2	0.35	0.21	1.97	1.55	-0.55	-1.61	4.75	-6.14	-438.04	52 98
2105	1	0.30	0.09	-3.53	-3.10	-0.52	-0.63	-1.72	-418.32	-121.16	122.10	2119	3	0.35	0.79	3.09	0.78	-0.61	2.76	2.43	-13.57	-466.22	57.28
2105	2	0.85	0.08	-4.38	-1.97	-0.22	1.86	1.91	-492.01	-344.15	120 22	2119	4	0.09	0.79	2.46	0.83	-0.75	1.47	-8.24	-12.48	-471.80	37 96
2105	3	1.01	0.28	-4.24	-1.58	0.26	3.43	0.31	-512.56	-185.79	31.14	2120	1	0.09	0.21	-1.22	-0.78	-0.20	-1.46	-1.16	-7.77	-423.81	-81.94
2105	4	0.54	0.33	-3.98	-3.04	0.20	2.24	-1.07	-384.89	-182.66	160.06	2120	2	0.33	0.21	-1.67	-0.96	-0.15	-2.91	0.23	-9.12	-423.11	-63.03
2106	1	0.25	0.07	-3.92	-1.03	-0.11	3.32	0.38	-412.80	-171.26	-69.54	2120	3	0.33	0.79	-3.11	-0.76	-0.26	-3.11	3.47	-13.35	-469.26	-71 08
2106	2	0.80	0.06	-1.64	-0.17	-0.14	5.31	-0.29	-509.31	-93.63	-89.39	2120	4	0.09	0.79	-2.43	-0.50	-0.56	-5.00	2.70	-19.11	-497.02	-83 72
2106	3	0.83	0.24	-1.56	-0.06	-0.19	5.44	1.27	-544.97	-60.46	-81.89	2121	1	0.23	0.21	0.36	0.51	0.52	-2.84	2.25	6.57	-397.43	73.35
2106	4	0.35	0.25	-3.59	-0.50	0.14	3.96	-0.11	-385.60	-210.52	-57.80	2121	2	0.86	0.21	-0.83	0.21	0.93	-2.33	-5.75	-30.01	-610.87	226.16
2107	1	0.27	0.16	-3.73	-5.87	1.78	2.94	-4.51	-350.53	-148.07	102.36	2121	3	0.86	0.79	-0.32	-0.42	0.82	-2.39	1.44	12.84	-538.19	82.50
2107	2	0.66	0.13	-4.20	-3.61	1.06	3.24	-2.20	-392.66	-91.73	96.72	2121	4	0.23	0.79	1.37	0.24	0.42	-5.36	2.46	-17.72	-496.71	102.20
2107	3	0.89	0.48	-5.18	-1.90	2.00	3.74	-0.80	-330.35	-84.46	145.85	2122	1	0.30	0.17	-0.89	0.79	0.91	2.52	1.36	-42.30	-553.08	-119.66
2107	4	0.57	0.60	-5.29	-4.42	3.56	3.89	-1.31	-286.13	-126.27	152.46	2122	2	1.10	0.05	-3.42	1.78	1.34	-5.19	5.06	-17.42	251.27	42.53
2107	4	0.24	0.10	-4.41	-2.32	0.71	2.59	0.25	-411.89	-171.66	124.25	2122	3	1.10	0.63	-1.31	1.11	1.62	-1.09	-5.36	-24.60	-236.48	9.24
2108	1	0.24	0.10	-4.41	-2.32	0.71	2.59	0.25	-411.89	-171.66	124.25	2122	4	0.30	0.75	-1.07	0.22	1.64	1.50	1.32	-9.22	-469.19	11 91
2108	2	0.65	0.08	-4.26	-0.89	0.19	2.93	0.68	-483.57	-52.51	47.10	2123	1	0.18	0.21	-25.97	-4.36	-1.22	2.67	4.27	-53.32	-434.91	-50.39
2108	3	0.78	0.31	-4.25	-0.09	0.49	7.37	-0.93	-426.68	-38.12	65.97	2123	2	0.67	0.21	-25.17	-3.42	-0.56	2.64	2.21	-05.30	-381.57	-42.91
2108	4	0.44	0.38	-4.78	-1.14	1.52	4.69	-1.39	-346.24	-86.09	112.56	2123	3	0.67	0.79	-24.37	-3.15	0.40	2.21	9.65	-68.81	-340.02	2.43
2108	4	0.44	0.38	-4.78	-1.14	1.52	4.51	-0.55	-373.75	-90.16	72.86	2123	4	0.18	0.79	-25.03	-3.95	-0.81	3.21	7.08	-73.04	-345.61	-17.81
2109	1	0.20	0.07	-3.45	-0.28	-0.07	5.51	-0.06	-567.94	-80.93	-98.87	2124	1	0.21	0.21	-27.57	-3.01	-2.80	0.00	-6.25	25.04	-529.81	-17.32
2109	2	0.62	0.06	-1.51	-0.12	-0.33	9.00	0.68	-595.41	-27.71	-34.65	2124	2	0.78	0.21	-27.34	-2.81	-3.69	2.96	9.25	-53.70	-606.69	-65 83
2109	3	0.63	0.24	-1.42	-0.09	-0.20	7.73	-1.58	-475.24	-17.20	76.31	2124	3	0.78	0.79	-26.13	-1.41	-3.65	2.55	9.57	-10.33	-599.54	-19.23
2109	4	0.29	0.26	-3.39	-0.24	0.31	4.44	-1.57	-548.10	-139.59	-171.38	2124	4	0.21	0.79	-27.43	-1.60	-2.94	1.56	-9.43	13.12	-491.81	-1.66
2110	1	0.20	0.06	0.74	0.24	-0.23	0.88	-3.01	-518.99	-103.11	-133.84	2125	1	0.21	0.34	0.87	7.92	0.80	-0.49	19.09	-260.59	14.76	33.69
2110	2	0.75	0.07	2.38	0.50	-0.37	1.42	-1.83	-577.22	-121.52	-158.68	2125	2	0.79	0.34	0.52	7.58	0.75	-0.64	15.07	-253.49	30.61	32.39
2110	3	0.65	0.25	2.04	-0.11	-0.40	4.01	-2.56	-585.51	-110.49	-131.59	2125	3	0.79	1.28	2.99	22.36	0.43	-0.17	15.35	-226.52	12.65	19.49
2110	4	0.17	0.24	0.53	-0.06	-0.33	-0.66	-5.98	-502.97	-107.67	-112.26	2125	4	0.21	1.28	4.28	22.67	0.41	-4.57	15.23	-216.79	5.92	9.39
2111	1	0.15	0.08	2.32	0.68	-0.45	-2.08	-6.23	-465.98	-82.26	-79.74	2126	1	0.21	0.29	-3.14	-13.67	0.54	0.34	12.98	-262.79	15.20	23.02
2111	2	0.70	0.09	1.61	0.42	-0.62	-1.59	-6.11	-187.64	-103.85	-117.96	2126	2	0.79	0.29	-3.34	-13.55	0.41	0.02	13.41	-207.49	19.44	23.96
2111	3	0.46	0.33	1.67	-0.71	-0.52	-0.37	-3.43	-544.50	-122.80	-142.67	2126	3	0.79	1.09	-1.21	-2.26	0.58	-0.53	15.02	-261.29	19.48	31.04
2111	4	-0.01	0.28	2.21	-0.15	-0.40	-2.44	-6.41	-461.69	-83.02	-51.11	2126	4	0.21	1.09	-1.27	-2.59	0.70	1.21	12.59	-257.06	13.10	28.92
2112	1	0.10	0.16	0.93	0.03	-0.79	-2.45	-7.55	-407.88	-109.21	-9.95	2127	1	0.21	0.32	-5.26	-24.94	0.14	0.61	5.16	-266.52	18.46	11.01
2112	2	0.64	0.13	-0.01	-0.83	-1.17	-1.70	-6.04	-402.73	-126.09	-71.76	2127	2	0.79	0.32	-5.32	-24.87	0.11	-0.13	5.11	-271.30	19.98	11.40
2112	3	0.23	0.47	0.04	-2.28	-1.04	-1.88	-6.32	-495.48	-100.39	-95.30	2127	3	0.79	1.19	-4.44	-19.62	0.25	-0.29	6.49	-269.37	19.91	10.88
2112	4	-0.21	0.38	0.83	-1.43	-0.76	4.97	-0.76	-638.16	-53.67	-90.34	2127	4	0.21	1.19	-4.22	-19.77	0.32	-0.57	7.13	-264.53	16 55	10.38
2113	1	0.16	0.06	0.32	-0.01	-0.36	1.66	-0.82	-664.18	-119.97	-151.78	2128	1	0.21	0.28	-5.10	-24.32	-0.09	0.06	-3.05	-269.92	18.85	8.73
2113	2	0.58	0.07	1.78	-0.21	-0.57	6.24	1.33	-799.12	-61.17	-153.23	2128	2	0.79	0.28	-5.13	-24.24	-0.09	0.19	-2.97	-272.38	20.06	8.32
2113	3	0.49	0.26	1.57	-0.20	-0.21	2.48	-0.90	-740.69	-17.74	-35.29	2128	3	0.79	1.06	-5.50	-26.02	-0.01	-0.40	-1.60	-270.04	20.64	8.49
2113	4	0.14	0.24	0.12	0.01	-0.17	-1.08	-2.45	-629.05	-84.48	-96.40	2128	4	0.21	1.06	-5.49	-26.13	0.01	0.47	-1.70	-267.44	19.00	8.09
2114	1	0.12	0.08	1.85	-0.25	-0.85	-4.56	-3.45	-548.31	-93.46	-94.53	2129	1	0.30	0.21	-0.88	-0.09	2.02	-3.61	5.22	17.60	-454.35	45.46
2114	2	0.53	0.10	1.31	-1.13	-1.26	2.52	-0.44	-651.95	-102.33	-207.29	2129	2	1.10	0.21	-0.70	-0.02	1.49	5.51	-5.98	-10.16	-379.07	-13.21
2114	3	0.32	0.38	1.01	-0.79	-0.62	5.34	0.69	-798.51	-70.30	-158.52	2129	3	1.10	0.79	-0.33	-0.46	1.94	-0.83	-4.72	9.92	-372.55	-0.75
2114	4	-0.01	0.31	1.67	-0.08	-0.26	-6.35	-5.09	-501.66	-75.63	-41.45	2129	4	0.30	0.79	-0.27	-0.26	1.91	-1.03	3.77	3.95	-420.47	25.09
2115	1	0.07	0.13	0.33	-1.60	-1.74	-5.99	-7.30	-426.34	-90.28	-35.91	2130	1	0.23	0.21	2.19	0.04	0.52	-3.02	2.83	-10.65	-421.73	106.16
2115	2	0.46	0.16	-0.83	-3.10	-2.16	-1.88	-2.07	-421.55	-108.83	-162.25												
2115	3	0.16	0.60	-1.56	-2.94	-2.47																	

2130	2	0.86	0.21	0.38	0.16	0.86	-0 39	-3.77	14.42	-483.69	51.65
2130	3	0.86	0.79	0.69	-0.10	1.07	-1.99	-3.53	-1.76	-451.05	57.48
2130	4	0.23	0.79	2.82	-0.38	1.11	-2.86	1.99	-19.80	-479.80	79.55
2131	1	0.09	0.21	-3.36	0.24	-0.41	-2.03	1.02	-15.17	-460 80	-68.79
2131	2	0.33	0.21	-4.10	0.24	-0.24	-2.68	2.75	-20.10	-491.50	-70.27
2131	3	0.33	0.79	-4.91	0.93	0.33	-0.23	-2.46	-31.49	-503.85	-79.09
2131	4	0.09	0.79	-4.14	0.83	0.60	-1.93	3.68	-32 49	-478.19	-83.54
2132	1	0.09	0.21	2.26	-1.51	-0.68	6 20	-11.42	-11.52	-508.60	44.78
2132	2	0.35	0.21	3.72	-1.08	-0.72	7.45	-1 03	-17.34	-501.33	63 51
2132	3	0.35	0.79	4.31	-3.25	0.24	10.85	-3 63	-20.01	-517.10	72.93
2132	4	0.09	0.79	1.75	-3.83	0.29	13.21	0 28	-7.87	-541.07	71.31
2133	1	0.09	0.21	-0.75	2.24	-0.61	10.25	3.07	1.38	-512.00	-27.20
2133	2	0.33	0.21	1.25	2.68	-0.53	10 21	11.06	7.23	-519.61	-9.88
2133	3	0.33	0.79	3.63	6.36	0.30	17.73	4.31	42.76	-542 91	-58.34
2133	4	0.09	0.79	0.18	5.65	0.24	14.30	6 54	12.91	-546.97	-65.38
2134	1	0.09	0.21	-2.83	-3.04	0.66	3.11	-10.70	56.68	-503 89	-59.26
2134	2	0.32	0.21	-2.30	-2.94	0.18	2.42	-8.67	45.50	-513.46	-12.51
2134	3	0.32	0.79	-4.66	-5.73	0.53	-3.78	-7.79	64.38	-531.98	63.41
2134	4	0.09	0.79	-3.96	-5.45	1.01	-0.79	0.74	119 34	-500.18	113.15
2135	1	0.13	0.21	-3.07	-3.33	0.91	0.91	-2.16	-186.35	-500.51	-117.91
2135	2	0.47	0.21	-2.77	-3.26	0.99	0.03	-5.51	-172.43	-551.45	-127.87
2135	3	0.47	0.79	-3.36	-5.03	0.96	-5.45	-1.56	-102.31	-539 26	38.03
2135	4	0.13	0.79	-2.20	-4.51	0.72	-1.67	0.73	-269.01	-519.94	-127.52
2136	1	0.18	0.21	-23.87	-3.79	-0.68	3.23	4.92	-30.39	-408.91	6.06
2136	2	0.67	0.21	-22 81	-3 11	1.11	2.64	4.69	-68.14	-412.86	29.06
2136	3	0.67	0.79	-19.60	-3.23	1.56	2.86	2.77	-73.85	-448.25	64.12
2136	4	0.18	0.79	-21 92	-3.66	-0.71	5.13	3.65	-34.46	-423.33	45.99
2137	1	0.21	0.21	-27 33	-1.53	-2.67	3.26	-9.97	5.32	-473.09	9.74
2137	2	0.78	0.21	-25.28	-1.07	-3.65	3.76	5 96	-4.65	-593.51	5.80
2137	3	0.78	0.79	-24 19	-1.08	-4 06	4.45	8 70	-18.07	-599 32	39.72
2137	4	0.21	0.79	-27 06	-1 42	-3 07	4.10	-10 91	9.67	-461.06	36.49
2138	1	0.21	0.34	0 26	9.50	0.66	1.27	13 16	-255.77	22.17	32.83
2138	2	0.79	0.34	0 16	7.74	0 52	-0.05	15.65	-257 60	26.69	35 85
2138	3	0.79	1.28	2.96	22.13	0 55	-2.62	16 94	-215 68	14.37	35.72
2138	4	0.21	1.28	3.42	23 36	0.46	-1.70	16.57	-223.69	14.29	26 73
2139	1	0.21	0.29	-3.38	-13.48	0 34	0.69	13 01	-210.74	22.03	23.78
2139	2	0.79	0.29	-3.38	-13 41	0 20	0 64	13 16	-275 42	24 07	23 17
2139	3	0.79	1.09	-1.44	-2.01	0 14	0.64	17.40	-270.27	25 72	28.62
2139	4	0.21	1.09	-1.44	-2 14	0.40	-1.21	14.94	-205.47	23.07	30 36
2140	1	0.21	0.32	-5.33	-24 75	0.06	0 60	5 21	-214.83	21 06	11.41
2140	2	0.79	0.32	-5.29	-24.66	0.01	0.15	5.22	-279.56	21 99	11.10
2140	3	0.79	1.19	-4.41	-19.41	0.04	-0.90	6 60	-277.89	23.06	18.14
2140	4	0.21	1.19	-4.44	-19.52	0.18	0.38	6.55	-203 24	21.61	18.69
2141	1	0.21	0.28	-5.12	-24.19	-0.10	0.13	-2.04	-275.66	20.87	0.24
2141	2	0.79	0.28	-5.11	-24.12	-0.10	0.20	-2.99	-280.21	21 68	0.10
2141	3	0.79	1.06	-5.49	-25.90	-0 07	-0.27	-1.65	-280.08	21.85	6.32
2141	4	0.21	1.06	-5.52	-25.96	-0.04	0.36	-1.64	-275.40	21.06	6.42
2142	1	0.30	0.21	0.12	-0.36	1.85	-0.04	2.70	-3.21	-411.70	19.61
2142	2	1.10	0.21	-0.04	-0 57	1.49	0.12	-4 26	5.36	-370.42	5.60
2142	3	1.10	0.79	-0.06	-0.69	1.41	-0.33	-3.58	-1.13	-361.68	4.00
2142	4	0.30	0.79	0.15	-0.51	1.82	-0.78	2 34	-4 49	-393 72	22.72
2143	1	0.23	0.21	2.67	-0.64	1.65	-2.38	1.29	-12.95	-461 07	63.57
2143	2	0.86	0.21	0.71	-0.45	1.36	-2.52	-2.67	-10.39	-436 76	50.00
2143	3	0.86	0.79	0.73	-0.47	1.59	-0.83	-2.96	-7.47	-415 36	35.77
2143	4	0.23	0.79	1.88	-0.59	2.13	-2.30	1 94	-8.50	-440 27	60 67
2144	1	0.09	0.21	-3.98	1.18	1 55	-1.87	3 86	25.84	-484 46	-81.72
2144	2	0 33	0.21	-4.67	1.23	1 05	-0.59	-9 04	-22.46	-502 26	-82.12
2144	3	0.33	0.79	-3.16	0.85	1.52	-1 52	-14 65	-10.36	-474.54	-88 79
2144	4	0.09	0.79	-2.80	0.74	2.48	-0.25	4.42	-11.76	-460.53	-71.73
2145	1	0.09	0.21	1.68	-4.02	1.44	13 31	12.08	-7.00	-535.14	1?? ??
2145	2	0.35	0.21	4.08	-3 37	1.41	10.68	-10.49	-19.38	-516.18	
2145	3	0.35	0.79	2.87	-1.62	2.38	5.83	-12.94	-7.59	-481.27	102.60
2145	4	0.09	0.79	2.09	-1.89	2.38	3.97	24.76	-4.17	-486.21	127.54
2146	1	0.09	0 21	0.21	5.79	1.35	12.96	7.03	15.62	-537 90	-111 89
2146	2	0.33	0.21	3.37	6.47	1.27	17.19	-17.52	45.97	-526.69	-130.38
2146	3	0.33	0.79	-0.14	2.33	2.03	6 64	-25.59	8.22	-469 64	-178.17
2146	4	0.09	0.79	-1.05	2.13	2.14	5.56	8.35	7 03	-485.80	-149.94
2147	1	0.09	0.21	-3.36	-5.16	1.01	-1.33	5.35	113.30	-475.89	114.37
2147	2	0.32	0.21	-4.18	-5.56	0.71	-5.09	-2.90	71.79	-519 23	136.03
2147	3	0.32	0.79	-0.41	-1.96	0.89	-0 99	0.21	42 50	-457 34	206.51
2147	4	0.09	0.79	-0.54	-1.90	1.07	0.60	17.56	41.34	-480.23	261 34
2148	1	0.13	0.21	-1.37	-4.17	0.39	-3.62	4.55	-273.82	-483.14	44.37
2148	2	0.47	0.21	-2.60	-4.77	0.60	-5.56	2.31	-121.59	-452 84	67 93
2148	3	0.47	0.79	-0.26	-1.71	0.37	-0.75	6.71	-203.17	-488.31	201.37
2148	4	0.13	0.79	-0.33	-1.68	0.29	-0.61	7.19	-195.62	-453 15	127 15
2149	1	0.18	0.21	-20.31	-3.72	-1.05	3 71	3.01	-61.92	-421 90	78.80
2149	2	0.67	0.21	-17.02	-4.31	1.18	7.10	2.36	-92.26	-463.99	89.70
2149	3	0.67	0.79	-14.33	-5.97	-1.10	7.63	-0.19	-115.23	-477.90	106.12
2149	4	0.18	0.79	-19.35	-4.57	-2 30	5.03	4 25	-108.30	-470.14	119 77
2150	1	0.21	0.21	-26.14	-0.79	-4.83	0.31	-13.44	19.02	-460.97	44.59
2150	2	0.78	0.21	-23.01	-1.67	-4.88	4.67	8 37	-21.97	-626.37	66 61
2150	3	0.78	0.79	-22.55	-3.86	-7.00	5.00	4 98	-66 36	-636.23	131.11
2150	4	0.21	0.79	-26.11	-2.59	-5.22	-1.52	-25.12	-21.53	-485.77	76.99
2151	1	0.21	0.34	0.16	7.95	0.30	2.69	14 61	-365 94	26.64	36.39
2151	2	0.79	0.34	0.72	8.45	-0.12	2.63	16.28	-274.65	25.70	35 37
2151	3	0.79	1.28	2.36	22.61	0.45	1.62	10 71	-223.32	10.16	66.47
2151	4	0.21	1.28	2.48	22.11	0.52	-1.83	17.69	-212.26	14.06	45.70
2152	1	0.21	0.29	-3.27	-13.29	0 08	1.09	13.16	-279.26	23 86	22 79
2152	2	0.79	0.29	-2.97	-13.17	-0.08	0.23	13.12	-283.61	21.85	21.52
2152	3	0.79	1.09	-0.69	-2.03	-0.22	0 59	15 21	-277.89	22.31	22.79
2152	4	0.21	1.09	-1.25	-1.96	0.01	-1.56	15.22	-279.32	25.65	28.14
2153	1	0.21	0.32	-5.25	-24.62	-0.02	0.59	5.23	-282.86	22.31	18.94
2153	2	0.79	0.32	-5.14	-24.57	-0.05	-0 04	5 28	-287 29	22 16	16 95
2153	3	0.79	1.19	-4.12	-19.34	-0.08	-0.07	6.69	-284.98	21 44	17.09
2153	4	0.21	1.19	-4.29	-19.36	-0.04	0.68	6.44	-281.40	22.95	17.38
2154	1	0.21	0.28	-5.07	-24.08	-0.11	0.21	-2.96	-283.58	22.01	0.32
2154	2	0.79	0.28	-5.00	-24.02	-0 12	0.23	-3.00	-289.17	22.22	-0.09
2154	3	0.79	1.06	-5.38	-25.79	-0.10	-0.17	-1 56	-288.11	22.26	6.21
2154	4	0.21	1.06	-5.45	-25 83	-0.09	0.24	-1.65	-283.27	22 19	6 17
2155	1	0.30	0.21	0.19	-0.52	1.77	-0.47	3 48	-0.46	-384 76	21 11
2155	2	1.10	0.21	-0.05	-0.66	1.33	0.12	-3 34	3.47	-353.62	3.47
2155	3	1.10	0.79	-0.03	-0.51	1.29	-0 07	-2.95	-6.07	-342 66	3.37
2155	4	0.30	0.79	0.06	-0.39	1.69	-0.78	1.36	-2.26	-367.42	13.87
2156	1	0.23	0.21	1.19	-0.20	2.22	-0.03	2.15	-3.04	-425.42	68.72
2156	2	0.86	0.21	0.49	-0.44	1.67	-1.21	-1 92	-2.19	-403 94	34.48
2156	3	0.86	0.79	0.30	-0.19	1.55	-0 09	-2 66	1.80	-377 81	45.26
2156	4	0.23	0.79	0.44	0.16	1.95	-0.92	2.39	0.05	-403.42	62.99
2157	1	0.09	0.21	-1.40	0.12	2.55	-2.16	4 01	0.23	-422 21	-73 00
2157	2	0.33	0.21	-1.69	-0.09	1.56	-1.12	-19.34	0.67	-439 05	-91.18
2157	3	0.33	0.79	-0.58	-0.60	1.20	-2.19	-11 40	10 57	-407.19	-90.53
2157	4	0.09	0.79	-0.33	-0 66	1.81	-1.50	3 11	13 20	-403.13	-95 21
2158	1	0.09	0.21	2.38	0.83	2.25	-3 34	21 54	-2.36	-440 27	123.87
2158	2	0.35	0.21	2.00	0.58	2.28	-3.15	-12.89	-0.38	-441.96	104 32
2158	3	0.35	0.79	1.32	2 09	1.94	-6.53	-10 37	9.49	-405.50	100 76
2158	4	0.09	0.79	3.09	2.55	1.43	-3.64	12 24	1.59	-396.27	111.05
2159	1	0.09	0.21	-2.95	-1.65	1.97	-2.55	9.59	-11.33	-423.28	-144 21

2159	2	0.33	0.21	-3.32	-1.77	1.88	-5.78	-26.76	-18.65	-413.71	-175.39
2159	3	0.33	0.79	-6.12	-4.42	1.05	-10.75	-8.14	-36.48	-403.57	-116.01
2159	4	0.09	0.79	-4.49	-3.87	1.12	-8.15	8.85	-19.82	-397.35	-115.60
2160	1	0.09	0.21	2.61	1.74	1.08	1.64	11.25	-91.07	-416.66	159.28
2160	2	0.32	0.21	3.35	2.02	0.85	5.43	-1.55	-64.33	-410.37	179.51
2160	3	0.32	0.79	6.23	3.86	0.64	7.50	-6.59	-37.75	-406.29	117.57
2160	4	0.09	0.79	4.89	3.46	0.97	5.31	4.73	-56.57	-427.93	120.49
2161	1	0.13	0.21	0.68	0.94	0.42	3.14	6.11	-55.38	-505.91	174.13
2161	2	0.47	0.21	1.65	1.37	0.45	5.00	4.47	-108.64	-451.84	133.82
2161	3	0.47	0.79	3.44	3.15	0.63	7.14	0.01	-82.02	-460.21	121.75
2161	4	0.13	0.79	1.42	2.65	0.58	5.52	2.24	-106.83	-500.68	124.64
2162	1	0.18	0.21	-19.63	-5.29	-3.42	5.19	-0.43	-161.57	-411.99	122.10
2162	2	0.67	0.21	-14.56	-6.54	-3.56	7.17	-5.26	-135.61	-450.09	83.33
2162	3	0.67	0.79	-17.79	-6.16	-5.46	7.07	-6.68	-158.73	-384.13	4.57
2162	4	0.18	0.79	-21.23	-6.07	-4.36	5.60	1.81	-246.47	-350.49	73.39
2163	1	0.21	0.21	-27.93	-6.72	-6.49	4.72	-34.03	-164.69	-549.16	134.76
2163	2	0.78	0.21	-23.37	-6.97	-8.87	6.80	8.82	-172.76	-618.00	157.00
2163	3	0.78	0.79	-24.34	-11.43	-10.27	8.38	9.89	-337.66	-586.35	93.00
2163	4	0.21	0.79	-30.77	-12.20	-7.60	12.39	-35.88	-431.72	-714.53	48.08
2164	1	0.21	0.34	1.88	8.60	-0.57	1.29	17.30	-280.18	21.45	33.39
2164	2	0.79	0.34	3.00	8.02	-0.12	2.13	18.81	-294.00	7.44	30.46
2164	3	0.79	1.28	9.04	26.19	0.14	12.44	23.46	-311.81	18.18	83.65
2164	4	0.21	1.28	3.97	23.61	-0.00	7.34	15.49	-249.02	11.96	79.70
2165	1	0.21	0.29	-2.72	-13.19	-0.00	1.20	14.17	-286.20	19.03	21.35
2165	2	0.79	0.29	-2.36	-13.13	0.01	0.63	13.22	-298.28	14.95	22.99
2165	3	0.79	1.09	-0.03	-1.67	0.10	-2.33	15.61	-281.73	11.85	30.96
2165	4	0.21	1.09	-0.17	-1.95	-0.11	2.12	13.85	-288.95	17.16	28.17
2166	1	0.21	0.32	-5.04	-24.54	-0.07	0.75	5.21	-290.62	21.53	11.31
2166	2	0.79	0.32	-4.93	-24.50	-0.02	-0.13	5.31	-295.45	21.03	12.20
2166	3	0.79	1.19	-3.67	-19.26	-0.04	0.73	7.33	-293.33	18.38	19.84
2166	4	0.21	1.19	-4.03	-19.33	-0.08	0.09	6.79	-287.03	20.14	17.85
2167	1	0.21	0.28	-4.96	-24.00	-0.13	0.17	-2.88	-291.62	22.27	-0.14
2167	2	0.79	0.28	-4.88	-23.94	-0.13	0.27	-3.00	-296.65	22.32	-0.14
2167	3	0.79	1.06	-5.24	-25.69	-0.09	-0.37	-1.53	-296.21	21.82	6.72
2167	4	0.21	1.06	-5.28	-25.75	-0.10	0.55	-1.57	-291.67	22.10	6.31
2168	1	0.30	0.21	0.11	-0.11	1.61	-0.59	2.62	-14.42	-344.01	17.27
2168	2	1.10	0.21	-0.02	-0.32	1.26	0.09	-2.57	-11.29	-348.51	-4.53
2168	3	1.10	0.79	-0.07	0.11	1.05	-0.56	-2.25	6.34	-350.67	-29.58
2168	4	0.30	0.79	0.14	0.38	1.56	0.90	3.96	-24.05	-309.12	35.36
2169	1	0.23	0.21	0.17	0.39	1.55	-0.56	2.66	8.83	-376.60	77.15
2169	2	0.86	0.21	0.25	-0.05	1.44	-0.44	-1.52	-6.68	-363.23	50.45
2169	3	0.86	0.79	0.49	0.43	1.29	-1.52	-2.24	-25.03	-327.09	42.28
2169	4	0.23	0.79	0.29	0.62	1.10	-0.52	3.24	28.53	-367.22	104.35
2170	1	0.09	0.21	-0.15	-0.80	1.34	-1.79	3.32	19.05	-401.31	-86.30
2170	2	0.33	0.21	-0.44	-1.04	0.77	-3.66	-7.86	18.10	-395.58	-87.37
2170	3	0.33	0.79	-0.87	-1.25	0.30	-2.77	-3.32	13.53	-391.43	-79.97
2170	4	0.09	0.79	-0.52	-1.08	0.69	-1.43	0.88	9.54	-407.08	-72.11
2171	1	0.09	0.21	3.58	2.71	0.72	-10.51	5.51	-0.97	-392.83	91.70
2171	2	0.35	0.21	1.37	2.24	0.75	-8.56	-6.00	8.09	-395.71	88.61
2171	3	0.35	0.79	1.72	1.76	0.25	-8.17	-4.05	8.66	-389.56	79.79
2171	4	0.09	0.79	3.78	2.20	0.25	-7.55	0.92	2.12	-393.99	75.19
2172	1	0.09	0.21	-4.79	-3.37	0.59	-6.30	6.96	-5.95	-392.79	-93.71
2172	2	0.33	0.21	-6.59	-3.44	0.60	-6.80	-4.67	-21.17	-399.47	-92.85
2172	3	0.33	0.79	-6.51	-3.02	0.18	-6.76	-0.69	-21.51	-412.80	-65.94
2172	4	0.09	0.79	-5.07	-2.50	0.16	-8.47	2.70	-13.68	-401.09	-69.63
2173	1	0.09	0.21	5.39	3.18	0.77	4.46	1.00	-56.67	-434.88	87.19
2173	2	0.32	0.21	6.78	3.40	0.46	4.07	-0.17	-42.83	-412.96	90.15
2173	3	0.32	0.79	6.63	2.59	0.21	3.93	-0.51	-19.65	-420.46	60.07
2173	4	0.09	0.79	5.53	2.34	0.39	5.22	-1.08	-28.66	-435.45	[illegible]
2174	1	0.13	0.21	1.71	2.56	0.59	5.55	-0.32	-91.53	-479.80	95.24
2174	2	0.47	0.21	4.10	3.96	0.61	7.28	-1.91	-49.29	-447.64	92.11
2174	3	0.47	0.79	4.15	3.21	0.42	6.73	-2.50	-58.20	-446.42	53.80
2174	4	0.13	0.79	1.77	1.78	0.64	6.69	-1.31	-67.07	-454.49	63.77
2175	1	0.18	0.21	-23.08	-6.63	-4.46	7.84	2.10	-300.43	-396.29	20.80
2175	2	0.67	0.21	-20.45	-5.89	-5.43	3.67	-5.22	-203.41	-387.83	-38.54
2175	3	0.67	0.79	-23.28	-5.29	-4.51	4.13	-5.17	-230.89	-330.54	-79.28
2175	4	0.18	0.79	-24.98	-6.46	-4.04	5.34	3.49	-276.25	-296.09	-93.53
2176	1	0.21	0.21	-32.46	-15.35	-6.95	16.47	-58.23	-477.84	-840.93	-99.21
2176	2	0.78	0.21	-25.64	-13.37	-10.26	8.73	12.72	-348.42	-578.46	17.28
2176	3	0.78	0.79	-27.35	-12.41	-9.40	8.73	19.87	-359.47	-696.39	-110.30
2176	4	0.21	0.79	-33.01	-14.97	-6.32	17.49	-18.28	-423.68	-838.31	-32.32
2177	1	0.21	0.34	3.48	7.98	0.69	1.58	15.21	-296.11	-2.14	32.33
2177	2	0.79	0.34	3.30	8.35	1.28	0.99	17.26	-292.12	-5.35	43.55
2177	3	0.79	1.28	8.47	26.81	0.90	15.74	27.68	-359.27	10.26	46.13
2177	4	0.21	1.28	7.46	26.52	0.74	-15.89	24.72	-361.66	9.04	64.30
2178	1	0.21	0.29	-2.09	-13.05	0.20	1.43	14.75	-292.02	13.84	24.96
2178	2	0.79	0.29	-2.09	-12.92	0.55	1.11	14.42	-297.39	13.09	31.37
2178	3	0.79	1.09	0.60	-1.09	0.59	-7.86	14.63	-301.68	4.49	35.20
2178	4	0.21	1.09	1.06	-1.27	0.26	4.85	17.01	-293.01	7.14	35.82
2179	1	0.21	0.32	-4.97	-24.46	0.03	1.01	5.23	-299.14	20.90	13.17
2179	2	0.79	0.32	-4.83	-24.35	0.11	0.12	5.39	-305.14	21.05	14.63
2179	3	0.79	1.19	-3.58	-19.09	0.17	0.39	7.24	-301.51	17.75	25.01
2179	4	0.21	1.19	-3.72	-19.25	0.04	-1.14	6.81	-296.70	17.37	20.90
2180	1	0.21	0.28	-4.86	-23.90	-0.11	0.17	-2.86	-300.55	22.49	-0.01
2180	2	0.79	0.28	-4.83	-23.82	-0.00	0.23	-2.90	-306.12	22.61	-0.11
2180	3	0.79	1.06	-5.15	-25.56	-0.06	-0.64	-1.50	-306.50	22.26	8.00
2180	4	0.21	1.06	-5.15	-25.62	-0.06	0.47	-1.41	-309.25	21.55	7.61
2181	1	0.30	0.25	0.01	0.51	1.60	-3.14	-0.19	-16.85	-299.46	5.72
2181	2	1.10	0.37	-0.38	0.92	1.01	1.43	-0.87	7.02	-357.14	-14.23
2181	3	1.10	0.95	-1.29	0.66	1.51	4.45	-6.63	-75.00	-404.97	58.15
2181	4	0.30	0.83	0.22	0.76	1.51	-4.95	3.15	25.79	-178.27	-115.02
2182	1	0.23	0.21	0.88	1.00	0.90	-0.13	2.04	16.44	-396.27	103.02
2182	2	0.86	0.21	0.82	0.96	1.40	1.00	1.85	-20.35	-247.14	80.17
2182	3	0.86	0.79	0.96	1.04	1.31	1.40	-2.96	17.48	-196.89	229.61
2182	4	0.23	0.79	1.77	0.95	0.91	-0.64	2.33	-8.20	-445.13	80.66
2183	1	0.09	0.21	-0.84	-1.06	0.36	-1.60	1.87	19.13	-283.97	-65.92
2183	2	0.33	0.21	-1.22	-1.10	0.23	-1.66	-1.54	14.41	-346.12	-73.61
2183	3	0.33	0.79	-2.44	-1.24	0.12	-2.34	-0.65	12.19	-423.84	-68.81
2183	4	0.09	0.79	-1.96	-0.98	0.07	-2.24	0.17	7.94	-432.10	-90.37
2184	1	0.09	0.21	3.99	1.91	0.09	-8.17	0.61	4.11	-419.11	69.15
2184	2	0.35	0.21	2.20	1.61	0.02	-8.74	-0.37	3.67	-407.03	70.37
2184	3	0.35	0.79	3.15	1.67	-0.53	-5.74	1.51	3.30	-426.84	54.99
2184	4	0.09	0.79	4.40	2.15	-0.43	-7.26	-0.33	-4.09	-412.29	40.64
2185	1	0.09	0.21	-5.21	-2.17	-0.06	-4.80	-0.15	-4.02	-417.67	-55.16
2185	2	0.33	0.21	-6.29	-2.18	-0.13	-4.59	2.29	-11.20	-414.50	-47.52
2185	3	0.33	0.79	-5.89	-2.74	-0.32	-5.40	-0.71	-23.49	-402.54	-30.28
2185	4	0.09	0.79	-5.01	-2.47	-0.34	-1.41	-4.45	-9.41	-403.31	-32.74
2186	1	0.09	0.21	5.17	2.01	0.07	4.42	-0.51	-46.12	-423.41	42.14
2186	2	0.32	0.21	6.29	2.13	-0.03	4.06	-1.12	-58.90	-429.02	40.17
2186	3	0.32	0.79	5.56	2.02	-0.07	3.62	0.47	1.24	-453.21	23.65
2186	4	0.09	0.79	3.91	1.48	0.08	5.80	-3.17	-25.37	450.73	-13.01
2187	1	0.13	0.21	1.36	1.19	0.67	7.48	-2.31	-60.23	-450.14	36.96
2187	2	0.47	0.21	3.71	1.73	0.31	7.10	-2.35	-42.07	-445.61	22.69
2187	3	0.47	0.79	2.69	1.04	0.52	6.30	-4.68	-52.81	-452.96	-11.22
2187	4	0.13	0.79	0.44	0.26	1.02	5.91	-2.67	-107.72	-473.54	-16.21
2188	1	0.18	0.21	-25.97	-5.92	-3.65	5.62	6.28	-217.91	-389.78	-104.18

2188	2	0.67	0.21	-24.57	-4.74	-3.53	3.79	-1.39	-223.23	-406.57	-68.40
2188	3	0.67	0.79	-24.96	-4.07	-2.49	3.39	-1.97	-152.57	-405.94	-88.84
2188	4	0.18	0.79	-26.45	-4.99	-3.31	4.46	6.35	-130.63	-446.60	-117.97
2189	1	0.21	0.21	-31.39	-10.34	-6.06	8.21	-9.59	-270.39	-825.65	-217.67
2189	2	0.78	0.21	-27.33	-9.39	-8.56	5.34	20.11	-241.77	-657.24	-157.18
2189	3	0.78	0.79	-27.86	-4.80	-8.29	3.35	20.63	-68.54	-713.02	-128.70
2189	4	0.21	0.79	-29.45	-4.61	-5.68	-0.36	-14.17	5.46	-659.73	-49.85
2190	1	0.21	0.34	2.38	8.49	1.87	1.77	15.80	-300.45	-3.36	49.55
2190	2	0.79	0.34	1.38	9.36	1.53	1.78	14.22	-296.54	8.45	53.88
2190	3	0.79	1.28	2.04	24.30	1.25	6.93	12.35	-293.23	3.27	22.95
2190	4	0.21	1.28	6.84	26.13	1.48	-31.46	21.19	-356.87	5.87	16.12
2191	1	0.21	0.29	-2.24	-12.69	0.66	1.28	13.72	-303.14	14.47	35.45
2191	2	0.79	0.29	-2.51	-12.44	0.73	0.24	14.66	-310.62	19.38	39.25
2191	3	0.79	1.09	0.11	-0.91	0.68	-6.56	15.98	-309.58	13.24	45.73
2191	4	0.21	1.09	0.17	-0.94	0.67	3.07	16.71	-292.54	8.86	42.92
2192	1	0.21	0.32	-4.86	-24.26	0.18	0.98	5.42	-310.33	22.20	15.90
2192	2	0.79	0.32	-4.93	-24.12	0.20	0.84	5.37	-317.91	24.15	16.88
2192	3	0.79	1.19	-3.89	-18.82	0.37	0.00	6.46	-313.29	22.20	29.48
2192	4	0.21	1.19	-3.59	-18.97	0.25	-1.36	7.12	-308.15	18.80	26.28
2193	1	0.21	0.28	-4.83	-23.75	-0.08	0.19	-2.93	-310.73	23.09	0.05
2193	2	0.79	0.28	-4.86	-23.65	-0.09	0.25	-2.80	-316.62	23.50	0.02
2193	3	0.79	1.06	-5.16	-25.35	-0.01	-0.61	-1.47	-318.31	23.83	8.34
2193	4	0.21	1.06	-5.16	-25.48	-0.03	0.30	-1.46	-310.46	22.96	8.75
2194	1	0.36	0.08	3.15	0.00	0.06	-0.19	0.16	-34.53	29.07	-22.31
2194	2	1.35	0.08	-2.51	-0.19	1.17	-4.56	3.88	-23.08	-80.87	20.78
2194	3	1.35	0.32	-1.29	0.82	0.24	-3.53	-2.27	-123.95	4.26	-23.52
2194	4	0.36	0.32	2.23	-0.21	0.07	-10.23	0.81	-112.21	27.42	19.63
2195	1	0.32	0.08	7.96	0.04	0.39	-0.54	1.74	-53.54	13.56	-17.05
2195	2	1.19	0.08	4.89	-0.10	0.27	-2.35	-2.52	-42.56	-11.61	19.77
2195	3	1.19	0.32	5.79	-0.16	0.54	-2.04	0.29	-104.41	-35.90	-22.68
2195	4	0.32	0.32	7.33	-0.06	0.06	-5.89	2.07	-93.28	14.51	14.09
2196	1	0.28	0.08	-8.57	0.06	0.21	0.03	2.29	-60.69	-12.67	-13.51
2196	2	1.06	0.08	-9.73	-0.01	0.14	-0.06	-2.32	-70.08	1.64	13.67
2196	3	1.06	0.32	-9.46	0.06	0.11	-2.62	-2.64	-76.81	-8.42	-12.88
2196	4	0.28	0.32	-9.09	-0.09	0.18	-1.00	2.60	-86.24	-5.85	16.30
2197	1	0.17	0.12	20.87	-0.73	-0.38	-9.53	2.13	-329.21	-116.52	-68.05
2197	2	0.62	0.12	14.08	0.88	0.25	-10.00	0.04	-223.91	-192.71	-85.95
2197	3	0.53	0.45	15.81	0.69	1.62	-11.13	-8.03	-326.96	-168.70	-101.52
2197	4	0.14	0.44	21.84	-0.35	1.34	-10.65	4.53	-379.67	-97.71	-72.71
2198	1	0.12	0.12	9.26	1.48	0.62	-10.70	0.20	-221.42	-249.00	-106.42
2198	2	0.58	0.13	3.86	1.65	1.26	-8.65	-1.85	-289.14	-297.95	-61.75
2198	3	0.37	0.50	6.40	1.05	1.62	-9.80	-2.28	-330.42	-284.05	-128.87
2198	4	-0.02	0.47	11.36	1.06	1.66	-12.21	0.73	-342.26	-211.65	-127.98
2199	1	0.08	0.14	0.64	1.22	1.71	-9.39	-2.01	-238.65	-352.13	-19.44
2199	2	0.53	0.16	-2.90	0.03	2.05	-8.13	-4.22	-152.07	-432.84	5.20
2199	3	0.19	0.59	-0.25	-0.37	1.64	-9.35	-1.98	-209.45	-418.04	-76.71
2199	4	-0.18	0.53	3.12	0.48	1.58	-10.69	-1.91	-271.53	-359.07	-109.00
2200	1	0.13	0.12	22.68	0.31	1.78	-11.74	6.55	-400.56	-79.93	-60.61
2200	2	0.47	0.12	16.95	1.04	2.07	-13.52	2.12	-401.76	-113.60	-99.29
2200	3	0.39	0.45	19.47	1.01	2.91	-20.50	-0.59	-456.74	-46.79	-85.24
2200	4	0.12	0.44	25.52	0.61	1.50	-27.67	4.52	-424.69	-22.15	-22.17
2201	1	0.10	0.13	12.99	1.01	1.02	-12.80	2.23	-415.38	-140.23	-113.49
2201	2	0.43	0.14	8.09	0.76	1.05	-13.12	-0.46	-385.62	-220.41	-157.93
2201	3	0.27	0.53	10.22	0.90	2.30	-12.31	-2.74	-434.39	-116.58	-169.41
2201	4	0.00	0.48	15.69	0.90	2.16	-17.22	0.24	-460.91	-55.40	-96.64
2202	1	0.06	0.16	5.47	0.11	0.54	-11.50	0.07	-368.50	-259.48	-165.12
2202	2	0.39	0.18	2.03	-1.06	0.63	-11.16	-2.10	-302.90	-358.27	-175.49
2202	3	0.14	0.67	3.69	-0.22	0.68	-8.73	-2.30	-490.60	-232.66	-268.37
2202	4	-0.12	0.59	7.25	0.41	1.34	-11.30	-1.68	-513.68	-139.33	...
2203	1	0.16	0.12	-25.44	1.98	-0.80	-6.64	-2.20	-372.95	-109.71	81.30
2203	2	0.61	0.12	-29.45	3.33	-1.76	-8.44	-3.47	-317.78	-122.12	4.94
2203	3	0.52	0.45	-30.37	2.86	-0.53	-5.51	-6.31	-350.55	-86.00	23.92
2203	4	0.14	0.44	-26.07	1.50	0.76	-9.11	-3.84	-373.37	-90.46	58.12
2204	1	0.12	0.12	-30.85	3.55	-2.69	-1.56	-2.72	-343.47	-144.67	61.19
2204	2	0.57	0.13	-30.65	2.52	-3.90	-1.84	-4.64	-294.50	-315.74	21.01
2204	3	0.36	0.50	-33.02	3.53	-4.72	-2.48	-2.25	-319.47	-213.62	6.40
2204	4	-0.01	0.47	-32.15	3.56	-2.13	-4.51	-5.38	-319.39	-141.66	13.39
2205	1	0.08	0.14	-29.87	1.65	-4.69	0.13	-3.50	-244.31	-383.42	-21.60
2205	2	0.52	0.16	-28.63	0.08	-5.51	-0.89	-1.56	-187.68	-494.36	-68.91
2205	3	0.19	0.58	-31.13	-0.36	-7.79	-6.50	-6.14	-221.11	-368.18	-96.67
2205	4	-0.18	0.53	-31.94	2.57	-6.15	-6.29	-3.98	-268.53	-270.03	-46.01
2206	1	0.13	0.12	-26.36	0.09	3.34	-10.84	-6.65	-342.81	-69.87	50.90
2206	2	0.46	0.12	-30.81	1.68	2.55	-4.92	-9.78	-306.13	-35.71	19.30
2206	3	0.39	0.45	-33.21	-0.01	-0.23	-40.27	-11.14	-340.52	-23.53	-27.55
2206	4	0.12	0.44	-28.96	-0.58	2.20	-33.32	-4.37	-385.34	-14.74	19.55
2207	1	0.10	0.13	-32.83	2.35	4.36	-0.81	-8.99	-311.89	-54.84	-12.56
2207	2	0.43	0.14	-34.78	4.23	2.80	6.15	-9.94	-310.78	-72.80	-8.85
2207	3	0.27	0.53	-37.00	0.69	-2.52	-48.94	-12.03	-281.49	-22.57	-57.34
2207	4	0.00	0.48	-35.20	0.14	0.35	-45.63	-12.68	-315.57	-7.21	-24.97
2208	1	0.06	0.16	-35.37	4.69	3.95	12.83	-5.52	-299.24	-158.10	-40.15
2208	2	0.39	0.18	-34.87	5.87	1.36	13.11	2.05	-262.61	-233.56	-106.91
2208	3	0.14	0.66	-37.46	2.68	-4.46	-44.79	-27.47	-209.61	-91.67	-39.56
2208	4	-0.11	0.59	-37.77	2.10	-1.44	-50.48	-14.56	-238.25	-44.80	-45.25
2209	1	0.36	0.12	-1.36	-29.08	6.73	-0.99	1.81	-515.26	-178.95	98.57
2209	2	0.90	0.10	-2.30	-28.52	9.02	0.50	1.76	-524.32	-147.26	146.10
2209	3	1.21	0.37	-1.32	-30.41	10.93	-5.37	1.27	-416.39	-154.66	137.61
2209	4	0.76	0.46	-0.06	-28.81	7.66	-6.84	3.30	-413.84	-106.67	118.39
2210	1	0.30	0.09	-3.06	-29.00	11.74	1.89	2.24	-428.27	-142.71	111.36
2210	2	0.85	0.07	-3.47	-23.87	13.76	3.07	2.55	-498.16	-102.15	32.04
2210	3	1.01	0.27	-9.55	-24.75	17.72	0.90	5.46	-492.19	-104.91	49.65
2210	4	0.54	0.32	-8.96	-28.93	13.11	-0.46	-1.09	-413.44	154.09	112.04
2211	1	0.25	0.07	-7.21	-24.36	17.39	11.85	10.85	-579.85	-110.65	-15.53
2211	2	0.80	0.06	-7.46	-17.12	12.59	-2.68	10.95	-626.67	-112.97	-96.94
2211	3	0.83	0.22	-8.26	-12.09	12.68	-5.27	9.61	-690.32	-89.64	-72.17
2211	4	0.35	0.24	-6.36	-19.48	18.31	1.87	16.04	-564.63	-77.55	6.62
2212	1	0.27	0.16	-5.28	-27.92	18.79	9.16	-7.21	-377.95	-109.94	74.04
2212	2	0.66	0.13	-7.66	-23.88	22.69	14.66	-0.66	-409.24	-61.02	64.96
2212	3	0.89	0.47	-14.82	-15.66	18.02	-6.49	23.79	-399.17	-29.82	85.13
2212	4	0.57	0.59	-9.89	-22.20	18.46	-37.25	27.63	-224.64	-77.07	97.64
2213	1	0.24	0.10	-7.16	-23.54	22.11	7.89	7.60	-414.52	-79.16	70.09
2213	2	0.65	0.08	-12.19	-15.01	22.24	-4.14	9.35	-502.21	-72.62	7.31
2213	3	0.78	0.30	-16.71	-5.77	13.34	-80.76	21.11	-511.62	-71.96	61.21
2213	4	0.44	0.37	-14.10	-12.99	16.72	-73.05	25.46	-356.90	-58.50	103.58
2214	1	0.20	0.07	-9.89	-13.45	18.66	-7.19	19.40	-543.36	-56.22	7.71
2214	2	0.62	0.06	-10.55	-5.74	11.69	-11.62	11.40	-574.42	-25.69	-82.41
2214	3	0.64	0.23	-10.09	-0.49	4.08	-58.97	5.24	-532.90	-21.31	-21.79
2214	4	0.29	0.25	-13.42	-5.92	10.43	-74.64	18.70	-416.43	-21.37	84.69
2215	1	0.20	0.06	-8.17	-9.17	6.32	-3.85	6.65	-615.37	-101.16	-139.62
2215	2	0.75	0.07	-7.29	-14.05	1.99	-3.19	16.27	-634.08	-126.37	-134.83
2215	3	0.65	0.24	-8.19	-9.26	0.69	-2.29	14.71	-705.61	-112.13	-151.02
2215	4	0.17	0.22	-8.74	-5.70	5.26	-4.88	9.33	-749.34	-113.71	-134.04
2216	1	0.15	0.07	-4.64	-17.13	0.90	-7.11	3.22	-586.22	-113.71	-96.21
2216	2	0.70	0.09	-3.10	-21.13	0.55	-4.58	8.36	-613.74	-40.64	-56.25
2216	3	0.46	0.32	-2.90	-18.79	-1.09	-5.29	3.66	-554.04	-110.44	-101.25
2216	4	-0.01	0.27	-5.64	-13.90	-1.23	-5.08	8.48	-611.29	-151.15	-120.40
2217	1	0.10	0.10	-3.08	-22.73	0.96	-3.84	8.40	-466.13	-97.44	-25.19

2217	2	0.64	0.12	-3.13	-24.61	1.70	-3.01	3.56	-417.70	-126.86	23.26
2217	3	0.24	0.46	-1.90	-22.00	0.57	-0.57	3.61	-424.32	-142.70	-59.25
2217	4	-0.21	0.37	-2.67	-21.20	-0.70	-0.79	3.81	-486.65	-112.46	-87.79
2218	1	0.16	0.06	-8.83	-3.69	5.36	-9.21	7.41	-824.61	-79.47	-81.61
2218	2	0.58	0.07	-8.91	-5.40	0.39	-7.91	14.28	-805.84	-117.56	-148.74
2218	3	0.49	0.25	-9.54	-1.83	-1.04	-14.91	6.05	-966.08	-66.00	-182.64
2218	4	0.14	0.23	-8.91	-0.60	3.38	-42.07	3.20	-946.50	-27.63	-31.20
2219	1	0.12	0.08	-8.10	-8.51	-3.37	-0.53	11.66	-740.73	-107.40	-95.81
2219	2	0.53	0.10	-5.19	-14.69	-6.53	-11.14	11.77	-622.78	-102.52	-93.74
2219	3	0.33	0.37	-7.78	-6.08	-6.29	19.03	11.97	-736.92	-115.87	-234.70
2219	4	-0.01	0.30	-9.64	-1.58	-2.85	4.30	6.67	-938.58	-77.05	-170.24
2220	1	0.07	0.13	-4.33	-17.08	-8.22	-12.17	4.01	-555.04	-91.87	-35.57
2220	2	0.46	0.16	-3.17	-21.45	-8.03	-11.05	-1.41	-455.57	-109.39	-35.54
2220	3	0.16	0.59	-5.48	-14.59	-10.01	19.96	18.44	-464.92	-126.76	-183.09
2220	4	-0.16	0.47	-7.92	-9.06	-8.13	23.81	13.57	-649.75	-92.06	-183.01
2221	1	0.29	0.16	-24.36	-2.37	-2.15	0.83	3.38	-160.61	-381.11	-28.97
2221	2	0.74	0.14	-24.86	-1.20	-1.74	0.31	0.39	-210.48	-311.67	0.79
2221	3	1.00	0.53	-24.65	-0.31	0.63	7.53	1.46	-221.66	-313.97	78.24
2221	4	0.63	0.58	-23.92	-2.35	0.17	8.79	-2.09	-165.62	-372.53	49.00
2222	1	0.25	0.13	-25.38	-0.35	-1.35	0.21	0.16	-244.70	-251.26	22.74
2222	2	0.69	0.12	-26.03	0.98	-0.90	1.34	1.14	-325.52	-276.10	80.42
2222	3	0.83	0.47	-26.13	1.51	-0.16	4.55	-0.20	-291.80	-178.58	53.69
2222	4	0.45	0.50	-25.79	0.74	0.68	3.42	2.74	-252.11	-244.00	85.78
2223	1	0.20	0.12	-25.66	1.35	-0.79	2.25	0.36	-263.59	-155.23	-17.37
2223	2	0.65	0.12	-23.43	0.98	-0.69	4.72	0.31	-324.15	-90.45	-8.61
2223	3	0.68	0.44	-23.46	0.87	-1.51	6.45	-0.94	-343.72	-105.44	-2.64
2223	4	0.29	0.45	-25.83	1.55	-0.87	3.41	-2.06	-328.50	-124.74	19.07
2224	1	0.22	0.18	-23.30	0.60	-4.29	-13.45	9.15	-240.74	-313.10	145.63
2224	2	0.54	0.16	-24.80	1.07	-5.19	-15.44	1.83	-295.53	-211.88	121.38
2224	3	0.72	0.59	-26.36	1.27	-0.29	38.14	-15.10	-340.60	-101.30	136.77
2224	4	0.46	0.66	-24.07	1.09	1.48	27.84	-11.95	-336.26	-180.59	197.61
2225	1	0.19	0.14	-26.13	1.89	-4.07	-9.82	-1.10	-310.77	-186.62	116.95
2225	2	0.52	0.13	-26.26	1.19	-4.86	-7.14	-3.24	-321.88	-111.89	41.83
2225	3	0.62	0.48	-27.74	0.43	-1.34	35.58	-8.41	-337.08	-41.65	51.90
2225	4	0.35	0.53	-27.31	0.76	0.62	34.82	-10.43	-317.59	-81.94	107.37
2226	1	0.16	0.12	-25.84	1.14	-3.39	-1.61	-4.82	-336.65	-94.99	27.98
2226	2	0.50	0.12	-23.47	-0.09	-3.83	3.00	-4.12	-343.60	-84.66	-25.49
2226	3	0.51	0.44	-25.31	-0.45	-2.52	28.06	-3.45	-376.23	-11.88	-15.22
2226	4	0.23	0.45	-27.42	0.13	-0.67	32.31	-8.00	-345.84	-30.19	38.66
2227	1	0.17	0.12	-20.36	0.26	-0.63	6.60	-0.46	-307.41	-96.48	-45.78
2227	2	0.62	0.12	-15.37	-0.95	-0.30	7.87	0.59	-281.96	-213.36	-10.53
2227	3	0.53	0.45	-16.18	-1.08	-1.72	7.96	0.97	-265.71	-184.96	-73.94
2227	4	0.14	0.44	-20.69	0.01	-1.82	7.20	-2.76	-309.23	-107.50	-30.35
2228	1	0.12	0.12	-11.56	-1.61	0.16	7.59	-0.80	-312.25	-217.11	49.32
2228	2	0.58	0.13	-7.15	-2.09	0.67	7.21	0.47	-269.92	-228.24	0.02
2228	3	0.37	0.50	-8.38	-2.69	-0.52	6.18	0.85	-312.99	-168.82	-35.69
2228	4	-0.02	0.47	-12.54	-1.82	-1.34	8.31	-0.74	-398.15	-123.98	41.63
2229	1	0.08	0.14	-4.71	-2.06	1.12	5.55	-2.08	-227.09	-292.62	-30.94
2229	2	0.53	0.16	-2.01	-1.85	1.50	5.40	-2.68	-159.27	-383.04	-62.46
2229	3	0.19	0.59	-3.29	-3.13	1.01	3.77	-0.10	-252.62	-282.99	-91.80
2229	4	-0.18	0.53	-5.87	-3.06	0.14	6.68	0.22	-288.97	-210.63	-58.30
2230	1	0.13	0.12	-21.14	-0.34	-2.26	6.62	-4.79	-344.90	-91.11	-32.05
2230	2	0.47	0.12	-16.87	-1.31	-2.32	8.53	-1.16	-301.99	-42.47	-13.53
2230	3	0.39	0.45	-18.86	-1.14	-3.17	17.51	0.62	-448.96	-23.06	-68.91
2230	4	0.12	0.44	-23.26	-0.51	-1.65	20.18	-2.94	-400.95	-37.69	-33.58
2231	1	0.10	0.13	-13.72	-1.66	-1.28	9.03	-1.58	-381.22	8.60	13.75
2231	2	0.42	0.14	-9.42	-2.60	-1.16	7.69	1.75	-332.04	-135.06	-23.56
2231	3	0.27	0.53	-11.47	-1.71	-2.93	11.84	3.04	-383.39	-51.40	-71.99

2231	4	0.00	0.48	-15.93	-1.02	-2.45	14.73	0.00	-441.73	-31.94	[illegible]
2232	1	0.06	0.16	-6.72	-3.13	-0.56	6.35	-0.14	-332.26	-132.61	-24.22
2232	2	0.39	0.18	-3.78	-4.02	-0.27	4.81	0.71	-312.19	-164.28	-81.47
2232	3	0.14	0.67	-5.03	-2.99	-2.36	8.56	5.69	-288.71	-76.69	-99.26
2232	4	-0.12	0.59	-8.62	-1.95	-2.39	11.04	2.96	-397.13	-33.40	-76.64
2233	1	0.36	0.13	-2.10	-1.32	-1.75	-3.04	-3.70	-420.42	-175.49	96.24
2233	2	0.90	0.10	-3.99	-0.94	-1.89	-2.32	-0.81	-399.44	-236.17	116.57
2233	3	1.21	0.38	-4.72	-0.93	-1.12	1.45	-1.70	-333.41	-232.63	134.14
2233	4	0.77	0.47	-3.64	-2.29	-1.21	1.23	-4.45	-306.95	-229.13	110.41
2234	1	0.30	0.09	-5.01	-0.55	-1.77	-0.67	-6.07	-401.96	-209.76	102.80
2234	2	0.85	0.08	-4.96	0.43	-1.60	3.58	3.06	-312.91	-312.53	55.09
2234	3	1.01	0.28	-4.48	1.14	-1.61	5.27	1.88	-519.74	-150.37	-25.57
2234	4	0.54	0.33	-5.24	0.15	-1.07	3.38	1.07	-323.34	-199.82	124.63
2235	1	0.25	0.07	-3.05	1.03	-1.93	5.18	1.12	-431.58	-151.39	-128.45
2235	2	0.80	0.06	1.10	1.31	-2.15	7.62	-0.95	-553.93	-86.49	-162.38
2235	3	0.83	0.24	1.64	1.26	-2.37	9.23	0.27	-595.42	-58.75	-142.70
2235	4	0.35	0.25	-2.49	1.47	-2.03	6.69	-1.16	-406.08	-176.21	-109.52
2236	1	0.27	0.16	-4.14	-2.35	-0.89	-0.51	-1.26	-311.11	-187.69	117.51
2236	2	0.66	0.13	-4.58	-0.69	-1.83	-0.24	-0.11	-368.46	-116.75	46.76
2236	3	0.89	0.48	-4.62	0.21	-0.26	14.50	-4.08	-281.03	-65.62	107.27
2236	4	0.57	0.60	-5.11	-1.35	1.10	10.23	-4.75	-211.92	-121.64	127.46
2237	1	0.24	0.10	-4.81	0.67	-2.09	1.63	0.27	-372.86	-156.03	87.34
2237	2	0.65	0.08	-3.47	0.98	-2.63	4.15	0.50	-459.89	-34.16	-5.33
2237	3	0.78	0.31	-2.46	0.73	-1.20	23.05	-3.69	-372.95	-21.96	32.96
2237	4	0.44	0.38	-4.24	0.59	-0.46	16.86	-5.37	-259.15	-69.86	65.27
2238	1	0.20	0.07	-1.68	1.18	-2.60	7.89	-1.84	-305.01	-66.46	22.47
2238	2	0.62	0.06	2.37	0.60	-2.38	11.28	-0.82	-620.73	-96.52	-144.90
2238	3	0.63	0.24	2.97	0.21	-1.25	25.55	0.29	-681.42	-37.97	-53.71
2238	4	0.29	0.26	-0.94	0.49	-1.39	24.21	-4.98	-419.25	-7.57	56.91
2239	1	0.20	0.06	4.71	2.27	-2.25	5.90	-5.52	-618.85	-158.67	-233.07
2239	2	0.75	0.07	6.46	3.12	-1.53	2.02	-5.49	-545.65	-136.40	-197.78
2239	3	0.65	0.25	6.51	1.38	-1.36	2.92	-3.55	-691.35	-177.11	-220.35
2239	4	0.17	0.24	4.87	1.20	-2.27	7.79	-5.70	-669.49	-127.33	-187.65
2240	1	0.15	0.09	5.90	4.40	-0.97	-0.14	-9.07	-582.64	-178.55	-168.01
2240	2	0.70	0.09	4.34	4.94	-1.02	-2.42	-9.07	-575.26	-159.28	-111.14
2240	3	0.46	0.33	4.63	2.75	-0.48	-1.25	-9.16	-575.16	-185.29	-166.66
2240	4	-0.01	0.28	6.01	2.39	-0.57	0.82	-6.43	-647.20	-198.41	-206.59
2241	1	0.10	0.19	3.05	4.95	-1.24	-3.29	-4.29	-502.54	-139.37	57.35
2241	2	0.64	0.13	1.17	4.37	-1.90	-3.74	-10.24	-439.10	-144.20	-6.66
2241	3	0.23	0.47	1.52	1.87	-1.34	-2.30	-5.64	-467.07	-186.72	-90.92
2241	4	-0.21	0.38	3.13	2.49	-0.86	-2.46	-4.14	-538.07	-181.85	-133.04
2242	1	0.16	0.06	4.93	1.03	-2.41	9.41	-7.86	-742.82	-61.69	-134.34
2242	2	0.58	0.07	6.47	0.53	-1.45	3.77	-2.18	-749.67	161.61	-201.82
2242	3	0.49	0.26	6.41	0.00	-0.03	13.76	1.39	-818.26	-35.19	-148.39
2242	4	0.14	0.24	5.09	0.24	-1.00	22.49	-2.05	-620.97	-11.46	-40.52
2243	1	0.12	0.08	5.95	1.30	-1.07	-0.22	-4.65	-779.62	-131.66	-156.12
2243	2	0.53	0.10	4.62	1.26	-0.79	-2.63	-6.04	-664.30	165.60	-196.50
2243	3	0.32	0.38	4.62	0.13	0.56	3.33	-1.71	-855.84	-150.64	-292.71
2243	4	-0.01	0.31	6.15	0.19	0.06	9.89	0.64	-1004.52	-92.25	-213.56
2244	1	0.07	0.13	3.00	1.22	-1.05	-6.44	-7.58	-826.44	-148.04	-92.30
2244	2	0.46	0.16	0.99	0.22	-1.35	-6.42	-9.87	-520.04	-167.28	-75.69
2244	3	0.16	0.60	0.63	-0.98	-0.96	-4.11	-5.50	-663.34	-199.51	-252.97
2244	4	-0.16	0.48	3.17	0.05	0.06	-0.74	-2.47	-780.34	139.38	-249.44
2245	1	0.13	0.21	-0.31	-1.11	1.63	6.02	-4.06	-687.86	-448.91	-62.68
2245	2	0.47	0.21	1.32	-0.09	1.12	6.78	-6.57	-35.43	-470.24	-11.13
2245	3	0.47	0.79	-1.01	-3.35	1.78	-0.26	-9.13	-207.32	-507.73	-211.21
2245	4	0.13	0.79	-0.79	-3.50	2.10	1.03	-4.05	-173.11	-495.90	-119.81
2246	1	0.09	0.21	2.28	0.82	0.48	5.37	-5.95	-98.95	-468.51	2.05

2246	2	0.32	0.21	3.75	1.32	0.02	7.94	-5.96	-74.77	-468.06	-14.23								
2246	3	0.32	0.79	-0.77	-3.10	0.30	2.30	-13.35	33.07	-522.41	-35.61								
2246	4	0.09	0.79	-0.92	-3.28	1.12	2.38	-15.28	56.26	-548.09	-102.59								
2247	1	0.09	0.21	-4.45	-2.12	-0.93	0.30	-1.82	-21.71	-461.65	-14.02								
2247	2	0.33	0.21	-4.29	-2.15	-0.85	-2.27	14.67	-30.55	-458.98	7.03								
2247	3	0.33	0.79	-0.25	2.93	-0.76	11.93	16.83	20.63	-519.12	4.76								
2247	4	0.09	0.79	-2.95	2.48	-0.82	11.41	4.34	-1.04	-525.78	-12.87								
2248	1	0.09	0.21	4.53	1.53	-1.01	-2.16	-10.41	-10.96	-463.98	32.41								
2248	2	0.35	0.21	4.32	1.57	-1.01	-0.14	4.54	-9.75	-467.02	53.93								
2248	3	0.35	0.79	6.06	-0.92	-0.87	7.89	0.34	-21.65	-506.66	63.33								
2248	4	0.09	0.79	4.27	-1.18	-0.86	8.48	-12.87	-13.23	-523.54	41.94								
2249	1	0.09	0.21	-3.60	-0.83	-0.29	-1.20	0.20	-11.92	-448.92	-90.96								
2249	2	0.33	0.21	-4.21	-0.94	-0.26	-3.56	1.71	-13.48	-459.66	-69.99								
2249	3	0.33	0.79	-6.37	-0.30	-0.21	-2.86	2.63	-23.14	-502.27	-78.87								
2249	4	0.09	0.79	-5.41	-0.08	-0.33	-3.73	3.94	-30.26	-519.25	-91.13								
2250	1	0.23	0.21	2.42	0.54	0.89	-3.94	2.96	3.27	-411.96	83.13								
2250	2	0.86	0.21	0.87	0.09	1.49	-3.94	-1.50	-20.39	-614.96	234.91								
2250	3	0.86	0.79	1.34	-0.46	1.61	-4.13	1.90	9.20	-542.01	88.07								
2250	4	0.23	0.79	3.79	-0.02	0.89	-4.20	3.29	-16.74	-460.40	109.87								
2251	1	0.30	0.17	0.37	0.63	1.66	3.67	2.84	-42.67	-554.79	-113.13								
2251	2	1.10	0.05	-0.99	1.37	1.94	-5.75	-0.13	-2.59	-240.41	45.10								
2251	3	1.10	0.63	-0.38	0.74	1.87	-2.14	-4.87	-30.61	-368.78	7.66								
2251	4	0.30	0.75	0.50	0.27	2.37	1.41	0.38	-5.27	-476.87	14.27								
2252	1	0.18	0.21	-26.22	-4.35	-3.01	3.58	6.70	-70.88	-450.81	-65.43								
2252	2	0.67	0.21	-24.75	-3.56	-1.96	3.65	1.19	-105.94	-433.79	-57.31								
2252	3	0.67	0.79	-24.16	-3.43	-1.52	3.33	-0.51	-99.03	-470.03	-5.45								
2252	4	0.18	0.79	-25.44	-3.85	-2.91	3.89	5.80	-44.81	-460.47	-29.39								
2253	1	0.21	0.21	-29.14	-2.34	-6.24	0.35	-17.92	22.58	-559.25	-14.22								
2253	2	0.78	0.21	-28.09	-2.26	-6.43	4.22	17.64	-61.04	-694.62	-77.13								
2253	3	0.78	0.79	-27.92	-0.34	-9.14	3.31	19.35	-19.32	-676.11	-26.52								
2253	4	0.21	0.79	-29.59	-0.42	-6.00	3.51	-21.78	17.64	-531.42	4.64								
2254	1	0.21	0.34	1.05	9.63	1.02	0.67	15.99	-351.18	19.64	55.31								
2254	2	0.79	0.34	0.79	9.45	0.88	0.22	15.67	-297.64	27.26	54.40								
2254	3	0.79	1.28	3.18	24.48	0.69	-0.53	15.28	-246.70	16.70	37.43								
2254	4	0.21	1.28	4.37	24.52	0.73	-6.99	15.27	-274.04	8.42	24.21								
2255	1	0.21	0.29	-2.39	-12.37	0.67	0.73	13.20	-316.75	23.28	40.30								
2255	2	0.79	0.29	-3.04	-12.24	0.51	0.31	13.62	-325.79	29.13	41.66								
2255	3	0.79	1.09	-0.91	-0.76	0.67	-0.84	15.16	-310.82	26.34	53.94								
2255	4	0.21	1.09	-1.01	-1.01	0.74	0.44	12.40	-304.56	19.69	50.28								
2256	1	0.21	0.32	-4.99	-23.99	0.19	0.76	5.37	-324.32	26.10	16.81								
2256	2	0.79	0.32	-5.04	-23.86	0.15	0.10	5.37	-313.93	27.94	14.98								
2256	3	0.79	1.19	-4.13	-18.48	0.33	-0.49	6.66	-321.65	29.51	32.13								
2256	4	0.21	1.19	-3.91	-18.64	0.36	-0.70	7.33	-321.69	25.08	30.91								
2257	1	0.21	0.28	-4.87	-22.57	-0.09	0.13	-2.91	-321.05	23.18	-9.86								
2257	2	0.79	0.28	-4.90	-23.47	-0.01	0.24	-2.63	-325.48	21.72	-3.01								
2257	3	0.79	1.06	-5.24	-25.14	-0.01	-0.58	-1.46	-321.13	25.97	6.67								
2257	4	0.21	1.06	-5.24	-25.27	0.01	0.40	-1.65	-323.15	24.92	7.91								
2258	1	0.30	0.21	0.50	-0.06	2.75	-4.53	6.57	15.86	-462.59	45.60								
2258	2	1.10	0.21	-0.30	0.24	1.59	4.08	-6.86	-9.73	-361.64	-13.77								
2258	3	1.10	0.79	-0.04	0.09	2.60	-1.63	-6.35	9.60	-356.98	-1.68								
2258	4	0.30	0.79	0.94	-0.02	2.91	-1.57	5.00	7.57	-428.29	23.96								
2259	1	0.23	0.21	6.71	-0.22	1.29	-4.00	2.60	-44.89	-490.58	118.49								
2259	2	0.86	0.21	2.04	0.01	1.71	-0.41	-5.72	19.46	-494.58	50.97								
2259	3	0.86	0.79	2.49	-0.06	2.10	-2.25	-4.04	-8.95	-652.27	56.74								
2259	4	0.23	0.79	5.00	-0.60	2.21	-2.10	0.26	-27.04	-487.79	80.74								
2260	1	0.09	0.21	-6.35	0.86	0.36	-2.82	2.62	-25.41	-481.57	-75.62								
2260	2	0.33	0.21	-7.26	0.46	0.27	-1.47	1.12	-30.26	-525.10	-78.60								
2260	3	0.33	0.79	-7.27	1.42	1.15	0.24	-10.73	-35.64	-520.16	-90.77								
2260	4	0.09	0.79	-6.66	1.27	1.84	-0.93	6.27	-37.24	-492.02									
2261	1	0.09	0.21	3.92	-3.85	0.10	13.38	-2.66	-12.52	-550.56	66.07								
2261	2	0.35	0.21	6.62	-3.07	-0.52	12.66	-5.96	-25.19	-536.36	77.40								
2261	3	0.35	0.79	6.31	-3.96	1.59	13.47	-19.04	-20.84	-532.54	87.29								
2261	4	0.09	0.79	3.38	-4.65	1.56	15.89	12.94	-12.56	-548.83	106.30								
2262	1	0.09	0.21	-1.46	5.75	0.26	17.63	6.19	21.72	-566.40	-63.89								
2262	2	0.33	0.21	2.31	6.77	0.30	21.08	3.01	48.68	-580.17	-52.29								
2262	3	0.33	0.79	2.86	6.67	1.48	18.56	-18.67	43.69	-519.54	-129.36								
2262	4	0.09	0.79	-0.95	6.13	1.54	15.33	10.70	19.44	-549.15	-136.12								
2263	1	0.09	0.21	-3.11	-5.82	1.52	0.44	0.66	176.63	-423.61	123.73								
2263	2	0.32	0.21	-3.61	-6.20	0.74	-4.21	-9.29	113.62	-538.87	60.44								
2263	3	0.32	0.79	-3.92	-5.72	1.14	-4.42	-7.93	8.68	-504.24	142.19								
2263	4	0.09	0.79	-3.12	-5.52	1.99	-2.20	6.44	50.32	-496.82	154.91								
2264	1	0.13	0.21	-0.93	-5.04	2.03	-3.17	-6.80	-294.84	-488.84	-79.97								
2264	2	0.47	0.21	-2.16	-5.65	1.81	-6.20	-4.54	-323.52	-521.07	-8.56								
2264	3	0.47	0.79	-2.07	-5.20	1.82	-5.93	-0.30	-79.28	-541.79	71.62								
2264	4	0.13	0.79	-0.24	-5.07	2.06	-2.37	3.36	-227.22	-540.82	-67.32								
2265	1	0.18	0.21	-25.13	-3.94	-3.04	4.21	5.91	-41.00	-471.96	-2.90								
2265	2	0.67	0.21	-22.73	-3.62	-1.24	4.87	2.08	-73.25	-497.15	23.00								
2265	3	0.67	0.79	-19.67	-4.49	-1.73	7.10	-1.16	-87.39	-547.11	59.03								
2265	4	0.18	0.79	-25.25	-4.19	-4.40	4.97	2.90	-55.02	-482.86	39.36								
2266	1	0.21	0.21	-29.05	0.14	-7.10	2.19	-21.32	4.11	-496.04	19.76								
2266	2	0.78	0.21	-26.33	0.60	-8.64	5.31	16.92	-12.63	-665.07	2.17								
2266	3	0.78	0.79	-26.63	1.45	-9.82	-1.06	17.26	-33.82	-650.44	31.94								
2266	4	0.21	0.79	-31.19	1.96	-6.39	9.42	-20.48	8.92	-472.21	53.90								
2267	1	0.21	0.34	0.57	9.40	0.68	1.77	15.56	-297.65	31.05	56.71								
2267	2	0.79	0.34	0.54	9.32	0.50	1.13	16.01	-288.91	25.52	60.63								
2267	3	0.79	1.28	3.40	25.28	0.42	-1.09	14.04	-227.47	16.54	60.12								
2267	4	0.21	1.28	3.56	24.84	0.68	-2.07	17.02	-276.84	13.84	47.40								
2268	1	0.21	0.29	-3.05	-12.17	0.46	1.21	17.25	-313.97	31.41	42.79								
2268	2	0.79	0.29	-3.03	-12.10	0.24	1.09	16.26	-342.10	29.01	43.42								
2268	3	0.79	1.09	-1.02	-0.85	0.18	-0.19	15.13	-326.42	30.35	46.93								
2268	4	0.21	1.09	-1.14	-0.62	0.36	-1.66	14.46	-313.20	31.03	52.70								
2269	1	0.21	0.32	-5.06	-23.77	0.12	0.72	5.29	-342.50	29.19	13.55								
2269	2	0.79	0.32	-5.04	-23.65	0.05	0.21	5.45	-332.78	30.66	12.34								
2269	3	0.79	1.19	-4.11	-19.27	0.06	-1.08	6.87	-332.74	35.17	29.19								
2269	4	0.21	1.19	-4.31	-19.39	0.20	0.19	6.87	-324.67	31.03	31.30								
2270	1	0.21	0.28	-4.92	-23.80	-0.05	0.15	0.55	-328.41	24.7	-1.39								
2270	2	0.79	0.28	-4.92	-23.91	-0.04	0.23	-1.87	-327.89	19.53	-2.45								
2270	3	0.79	1.06	-5.25	-24.99	-0.06	-0.40	-1.56	-348.74	19.06	-5.05								
2270	4	0.21	1.06	-5.24	-25.07	-0.04	0.30	-1.50	-339.00	25.04	3.47								
2271	1	0.30	0.21	1.26	0.01	3.07	-1.12	9.50	-2.90	-484.15	17.41								
2271	2	1.10	0.21	0.39	-0.01	2.40	-0.64	10.50	5.20	-357.10	4.47								
2271	3	1.10	0.79	0.19	-0.05	2.50	-0.78	-1.71	-2.27	-340.57	2.09								
2271	4	0.30	0.79	1.29	-0.04	2.24	-1.14	4.93	-3.71	-360.2	20.24								
2272	1	0.23	0.21	4.73	-1.55	2.99	-2.20	2.74	-11.51	-467.2	67.47								
2272	2	0.86	0.21	2.47	-0.09	1.91	-3.24	-4.15	-18.05	-477.1	45.10								
2272	3	0.86	0.79	2.46	0.06	2.90	-0.94	-4.67	-3.87	-418.11	35.94								
2272	4	0.23	0.79	3.95	0.04	3.56	-1.97	8.76	-5.35	-408.99	67.49								
2273	1	0.09	0.21	-5.89	1.25	2.91	-1.01	5.17	-19.71	-491.11	-55.74								
2273	2	0.33	0.21	-6.36	1.37	1.79	0.43	-15.41	-14.01	-500.95	-92.11								
2273	3	0.33	0.79	-5.03	0.97	2.31	-0.21	-24.45	-9.94	-421.22	-106.65								
2273	4	0.09	0.79	-4.64	0.82	2.67	0.41	3.94	-4.16	-487.47	-94.10								
2274	1	0.09	0.21	3.50	-3.42	2.35	10.66	20.26	-5.51	-521.49	122.39								
2274	2	0.35	0.21	5.83	-2.93	2.43	8.91	-16.17	-12.00	-515.51	107.77								
2274	3	0.35	0.79	4.59	-3.16	2.95	3.50	-16.40	-6.20	-481.12	117.06								
2274	4	0.09	0.79	4.21	-0.96	3.06	2.03	31.19	5.40	-426.84	120.13								
2275	1	0.09	0.21	-1.69	4.30	2.09	13.10	11.19	-3.34	-482.40	-146.31								

2275	2	0.33	0.21	1.46	5.03	1.97	13.95	-20.96	14.41	-483.52	-185.36
2275	3	0.33	0.79	-2.03	-0.19	2.71	8.62	-38.17	1.00	-354.95	-316.10
2275	4	0.09	0.79	-2.16	-0.15	2.83	8.27	-12.54	-1.92	-363.14	-124.51
2276	1	0.09	0.21	-1.82	-4.04	2.16	-1.11	10.34	140.25	-471.12	206.56
2276	2	0.32	0.21	-2.41	-4.21	1.29	-1.34	-9.85	106.63	-503.55	211.82
2276	3	0.32	0.79	1.44	-0.13	1.74	0.08	-5.59	48.57	-393.58	330.01
2276	4	0.09	0.79	1.16	0.08	2.35	1.21	21.15	38.55	-408.59	346.78
2277	1	0.13	0.21	0.45	-3.39	2.11	-4.35	7.00	-269.94	-443.46	110.51
2277	2	0.47	0.21	-1.08	-3.92	1.76	-6.15	1.87	-112.56	-457.69	166.27
2277	3	0.47	0.79	1.43	0.56	1.82	0.63	6.10	-183.75	-441.64	281.00
2277	4	0.13	0.79	1.21	0.81	2.15	0.35	9.74	-172.46	-498.69	202.57
2278	1	0.18	0.21	-24.85	-8.53	-5.38	12.24	10.90	-77.92	-495.11	71.66
2278	2	0.67	0.21	-17.73	-6.06	-2.69	12.06	-1.13	-110.63	-585.28	94.39
2278	3	0.67	0.79	-15.81	-7.64	-6.97	6.52	1.80	-124.75	-624.77	134.05
2278	4	0.18	0.79	-24.58	-6.25	-8.94	23.24	4.46	-88.76	-490.48	91.32
2279	1	0.21	0.21	-31.58	2.82	-8.62	-12.26	-27.63	12.61	-443.57	74.35
2279	2	0.78	0.21	-29.21	0.52	-10.72	7.73	2.77	-39.23	-657.22	69.25
2279	3	0.78	0.79	-50.85	-7.88	-18.59	20.50	-12.17	-68.00	-639.46	133.42
2279	4	0.21	0.79	-44.24	3.87	-4.43	-14.38	-28.00	-27.05	-464.06	132.14
2280	1	0.21	0.34	0.72	9.72	0.29	2.04	15.30	-314.95	37.21	59.08
2280	2	0.79	0.34	1.14	10.36	-0.96	1.51	16.94	-309.19	34.14	51.26
2280	3	0.79	1.28	2.38	25.28	-0.27	-0.21	18.17	-245.19	21.88	101.30
2280	4	0.21	1.28	3.30	25.58	0.78	-1.58	19.63	-223.48	19.26	92.24
2281	1	0.21	0.29	-2.96	-12.05	0.11	0.59	12.74	-327.72	23.79	47.99
2281	2	0.79	0.29	-2.72	-11.94	-0.10	-0.73	14.22	-326.02	19.46	34.42
2281	3	0.79	1.09	-0.38	-0.69	0.60	0.51	17.58	-309.46	20.18	40.25
2281	4	0.21	1.09	-0.91	-0.39	-0.11	-0.30	15.10	-316.50	20.23	44.31
2282	1	0.21	0.32	-5.05	-23.61	0.03	0.52	5.51	-379.93	31.36	0.44
2282	2	0.79	0.32	-4.99	-23.54	-0.04	-0.59	9.19	-390.64	19.62	-24.19
2282	3	0.79	1.19	-3.92	-18.25	0.02	0.79	6.70	-389.61	20.19	59.46
2282	4	0.21	1.19	-3.99	-18.24	0.04	0.66	6.54	-379.80	33.77	37.41
2283	1	0.21	0.28	-4.91	-23.26	-0.10	0.10	-2.79	-330.60	15.59	-3.30
2283	2	0.79	0.28	-4.88	-23.19	-0.17	0.09	-2.62	-329.87	17.41	-2.71
2283	3	0.79	1.06	-5.21	-24.86	-0.01	0.16	-1.43	-335.88	17.46	2.25
2283	4	0.21	1.06	-5.25	-24.93	-0.06	0.36	-1.59	-328.30	17.68	-8.65
2284	1	0.30	0.21	1.54	0.11	3.69	-1.14	4.84	1.63	-374.99	19.11
2284	2	1.10	0.21	0.24	0.08	2.61	-0.03	-6.51	1.66	-343.11	1.63
2284	3	1.10	0.79	0.19	0.29	2.96	-1.17	-7.31	-5.52	-338.69	1.78
2284	4	0.30	0.79	1.62	0.74	3.97	-2.53	5.47	-0.61	-356.25	12.62
2285	1	0.23	0.21	4.03	1.03	3.69	-1.73	5.26	-0.25	-416.79	67.82
2285	2	0.86	0.21	2.65	0.36	3.28	-2.05	-4.30	0.36	-392.94	35.35
2285	3	0.86	0.79	2.74	0.77	3.14	-0.87	-3.66	5.30	-366.01	47.22
2285	4	0.23	0.79	3.66	1.57	3.48	-3.54	4.54	3.14	-385.03	60.96
2286	1	0.09	0.21	-4.85	-1.42	3.69	-3.69	4.74	-2.16	-427.[illegible]	-31.85
2286	2	0.33	0.21	-5.53	-2.06	2.15	-4.42	-22.88	-0.47	-418.[illegible]	-104.99
2286	3	0.33	0.79	-5.04	-2.62	1.81	-5.73	-16.14	8.63	-406.45	-94.05
2286	4	0.09	0.79	-4.23	-2.62	2.96	-4.85	5.53	13.37	-396.76	-89.65
2287	1	0.09	0.21	7.45	3.69	3.22	-4.51	22.85	-18.90	-529.75	117.99
2287	2	0.35	0.21	6.43	3.13	3.32	-4.03	-18.63	-4.21	-469.62	117.99
2287	3	0.35	0.79	6.30	5.20	2.37	-11.77	-18.50	3.49	-440.51	107.67
2287	4	0.09	0.79	8.70	5.64	2.37	-13.28	19.89	0.54	-435.84	119.05
2288	1	0.09	0.21	-8.46	-4.58	3.10	-9.40	16.82	-18.61	-605.20	-106.80
2288	2	0.33	0.21	-8.92	-5.14	2.04	-5.22	-34.32	-24.62	-604.54	-222.53
2288	3	0.33	0.79	-12.67	-7.99	1.96	-14.35	-19.12	-19.67	-510.20	-139.17
2288	4	0.09	0.79	-10.59	-7.66	2.84	-11.46	15.27	5.32	-500.96	-134.79
2289	1	0.09	0.21	7.34	4.60	2.91	5.80	16.95	-100.24	-459.[illegible]	256.53
2289	2	0.32	0.21	8.82	5.10	1.67	8.84	-7.56	-96.92	-524.[illegible]	296.10
2289	3	0.32	0.79	10.09	7.57	1.51	8.92	-16.26	-61.89	-460.[illegible]	190.49
2289	4	0.09	0.79	11.12	6.96	2.51	7.09	7.26	-98.06	-489.37	192.29
2290	1	0.13	0.21	3.46	4.49	2.66	7.04	8.51	-79.23	-559.48	247.47
2290	2	0.47	0.21	5.66	4.35	2.21	6.87	3.56	-108.74	-489.69	217.84
2290	3	0.47	0.79	8.80	6.98	2.11	10.06	-1.81	-128.59	-524.66	194.02
2290	4	0.13	0.79	5.15	6.51	2.10	8.37	2.59	-165.32	-567.28	192.71
2291	1	0.18	0.21	-38.20	-13.25	-20.40	2.17	9.04	-162.78	-614.78	131.62
2291	2	0.67	0.21	-23.24	-7.38	-13.52	15.34	7.31	-139.97	-596.26	129.01
2291	3	0.67	0.79	-23.98	-6.05	-16.61	13.04	5.13	-160.83	-540.15	39.46
2291	4	0.18	0.79	-24.52	-8.52	-11.99	-4.06	-4.89	-257.17	-549.60	84.39
2292	1	0.21	0.21	-17.62	-1.58	-1.65	16.27	-23.87	-163.95	-470.02	122.21
2292	2	0.78	0.21	-18.10	-4.78	-7.80	-11.70	-24.89	-154.51	-511.66	130.43
2292	3	0.78	0.79	-24.55	-6.92	-7.14	-2.37	-22.70	-331.91	-513.74	91.12
2292	4	0.21	0.79	-29.55	-9.66	-1.68	14.56	-16.64	-421.16	-592.39	75.03
2293	1	0.21	0.34	1.94	9.90	-1.97	-3.93	19.07	-333.95	22.97	47.21
2293	2	0.79	0.34	3.19	9.20	-0.41	-1.11	19.50	-352.62	2.52	45.31
2293	3	0.79	1.28	10.25	26.21	-0.46	14.75	20.16	-384.61	18.67	122.99
2293	4	0.21	1.28	3.43	24.94	-1.40	14.97	5.02	-318.02	12.47	122.60
2294	1	0.21	0.29	-2.51	-11.91	-0.09	-0.54	14.06	-332.31	22.47	33.50
2294	2	0.79	0.29	-2.24	-12.01	-0.02	-1.01	12.18	-339.95	15.36	46.27
2294	3	0.79	1.09	-0.26	-0.71	0.11	1.80	16.44	-326.30	11.51	85.64
2294	4	0.21	1.09	0.62	-0.72	0.15	3.75	14.83	-336.16	21.70	48.69
2295	1	0.21	0.32	-4.86	-23.50	-0.09	0.13	5.42	-277.51	22.90	-24.06
2295	2	0.79	0.32	-4.80	-23.47	0.01	-0.46	5.45	-289.59	10.54	0.92
2295	3	0.79	1.19	-3.45	-18.07	0.12	1.11	7.72	-289.40	7.11	38.39
2295	4	0.21	1.19	-3.87	-18.23	0.10	1.20	6.76	-277.33	21.52	60.42
2296	1	0.21	0.28	-4.86	-23.14	-0.17	0.07	-2.74	-334.67	29.65	-2.79
2296	2	0.79	0.28	-4.82	-23.06	-0.14	0.01	-2.47	-333.96	24.79	-3.51
2296	3	0.79	1.06	-5.17	-24.70	-0.01	-0.12	-1.41	-335.76	24.54	-9.43
2296	4	0.21	1.06	-5.16	-24.79	0.01	0.84	-1.46	-324.96	25.07	2.21
2297	1	0.30	0.21	2.24	0.63	3.98	-1.61	9.11	-112.38	-330.16	19.22
2297	2	1.10	0.21	0.66	0.51	3.67	0.40	-0.43	-111.98	-340.[illegible]	-5.16
2297	3	1.10	0.79	1.26	0.23	2.84	-10.11	-10.35	5.89	-341.[illegible]	-20.77
2297	4	0.30	0.79	3.05	0.84	4.19	3.06	5.66	-119.10	-294.[illegible]	40.[illegible]
2298	1	0.23	0.21	3.58	1.69	2.92	-2.76	4.63	12.73	-361.43	89.11
2298	2	0.86	0.21	2.77	0.69	2.67	-1.95	-4.11	-1.94	-350.[illegible]	52.95
2298	3	0.86	0.79	3.24	0.95	2.50	-4.55	-6.85	-17.60	-314.[illegible]	45.36
2298	4	0.23	0.79	4.11	1.66	2.29	-3.11	6.23	10.79	-350.22	107.48
2299	1	0.09	0.21	-4.24	-2.35	2.19	-3.79	5.59	24.13	-290.81	-41.35
2299	2	0.33	0.21	-5.15	-2.74	1.29	-5.49	-13.46	23.02	-334.47	-61.02
2299	3	0.33	0.79	-5.76	-2.91	0.90	-5.01	-7.72	18.14	-378.66	-83.70
2299	4	0.09	0.79	-4.92	-2.56	1.21	-3.11	2.[illegible]	14.59	-347.65	-75.66
2300	1	0.09	0.21	9.46	5.58	1.52	-13.23	13.19	3.27	-430.[illegible]	100.[illegible]
2300	2	0.35	0.21	6.51	5.22	1.44	-11.42	-11.67	19.22	-427.92	9.[illegible]
2300	3	0.35	0.79	7.07	6.59	0.61	-13.87	-4.11	13.87	-415.42	50.33
2300	4	0.09	0.79	10.22	5.25	0.85	-12.[illegible]	4.[illegible]	2.56	-420.[illegible]	6.[illegible]
2301	1	0.09	0.21	-11.28	-7.48	1.20	-13.14	12.92	-15.78	-450.[illegible]	12.22
2301	2	0.33	0.21	-14.04	-7.47	1.26	-11.52	-10.[illegible]	-40.45	-460.82	-104.77
2301	3	0.33	0.79	-14.50	-6.80	0.58	-10.[illegible]	-4.[illegible]	-24.35	-454.70	-76.36
2301	4	0.09	0.79	-12.18	-6.29	0.62	-12.52	7.30	-20.23	-440.63	-73.85
2302	1	0.09	0.21	12.39	6.69	1.71	5.99	2.[illegible]	-55.42	-485.[illegible]	73.[illegible]
2302	2	0.32	0.21	14.35	7.01	1.01	6.02	-11.34	-56.[illegible]	-479.87	1.[illegible]
2302	3	0.32	0.79	14.72	5.59	0.53	6.41	-6.42	-40.01	-472.[illegible]	24.07
2302	4	0.09	0.79	13.04	5.36	1.02	7.50	-0.67	-59.41	-483.[illegible]	24.[illegible]
2303	1	0.13	0.21	6.27	5.97	1.47	9.21	0.13	-155.76	-549.[illegible]	144.42
2303	2	0.47	0.21	10.27	6.41	1.54	11.65	-4.26	-131.35	-566.[illegible]	141.10
2303	3	0.47	0.79	10.91	5.27	1.09	10.52	-4.79	-138.66	-550.[illegible]	72.45
2303	4	0.13	0.79	7.18	4.54	1.34	10.04	-1.51	-123.29	-516.[illegible]	66.[illegible]
2304	1	0.18	0.21	-24.39	-8.49	-11.40	9.[illegible]	-22.[illegible]	-139.43	-632.56	36.45

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2333	2	0.57	0.13	-23.13	2.62	-3.50	-5.29	-4.07	-273.28	-350.16	53.48
2333	3	0.36	0.50	-23.61	3.10	-4.00	-5.75	-2.96	-269.31	-213.94	45.24
2333	4	-0.01	0.47	-21.16	3.11	-2.10	-8.25	-4.26	-273.29	-119.19	83.31
2334	1	0.08	0.14	-23.92	1.62	-3.63	-4.06	-3.19	-220.06	-438.99	-5.19
2334	2	0.52	0.16	-24.64	0.24	-4.10	-4.03	-2.78	-161.72	-525.60	-63.80
2334	3	0.19	0.58	-25.07	-0.46	-6.12	-8.55	-4.90	-159.01	-418.63	-71.76
2334	4	-0.18	0.53	-24.31	2.15	-5.03	-9.18	-3.71	-210.15	-289.97	-20.82
2335	1	0.13	0.12	-12.39	0.37	1.89	-12.99	-3.24	-311.29	-62.90	145.49
2335	2	0.46	0.12	-17.98	1.60	1.46	-9.61	-7.38	-221.12	-26.46	104.88
2335	3	0.39	0.45	-19.04	0.21	0.13	-35.10	-8.90	-184.25	-12.85	25.46
2335	4	0.12	0.44	-13.40	-0.20	1.48	-31.49	-1.94	-305.59	-20.47	60.07
2336	1	0.10	0.13	-21.22	2.18	2.63	-6.23	-6.64	-219.66	-35.60	56.32
2336	2	0.43	0.14	-24.63	3.46	1.58	-0.72	-8.35	-214.48	-47.44	39.62
2336	3	0.27	0.53	-25.67	0.60	-1.79	-40.91	-14.11	-52.19	9.70	10.96
2336	4	0.00	0.48	-22.19	0.26	0.34	-38.74	-9.71	-129.15	15.92	29.69
2337	1	0.06	0.16	-26.23	3.72	2.49	5.42	-4.63	-195.75	-152.12	-27.60
2337	2	0.39	0.18	-27.08	4.26	0.73	5.89	1.12	-173.45	-255.91	-108.93
2337	3	0.14	0.66	-28.52	1.79	-3.79	-37.11	-21.97	-18.56	-59.29	-28.26
2337	4	-0.11	0.59	-27.46	1.56	-1.24	-41.82	-15.85	-24.38	-10.44	15.76
2338	1	0.36	0.12	-1.31	-25.30	4.91	-1.60	5.57	-603.06	-140.60	88.94
2338	2	0.90	0.10	-2.86	-24.81	6.74	-0.51	4.02	-616.66	-93.93	126.72
2338	3	1.21	0.37	-2.29	-25.02	8.60	-5.09	3.66	-485.76	-60.49	109.65
2338	4	0.76	0.46	-0.61	-23.78	6.00	-5.32	5.66	-475.73	-128.80	99.81
2339	1	0.30	0.09	-3.95	-24.15	8.75	1.24	5.35	-526.15	-117.23	74.09
2339	2	0.85	0.07	-5.51	-21.59	11.35	4.43	5.09	-613.94	-81.47	-21.58
2339	3	1.01	0.27	-5.60	-20.27	13.67	1.58	9.81	-591.03	-41.41	-7.32
2339	4	0.54	0.32	-2.64	-23.94	10.44	-0.22	2.86	-494.67	-65.75	77.27
2340	1	0.25	0.07	-7.22	-17.96	12.33	6.56	7.66	-704.92	-71.71	-85.19
2340	2	0.80	0.06	-9.27	-12.53	9.93	3.69	10.97	-813.23	-122.43	-171.08
2340	3	0.83	0.22	-9.62	-9.08	10.35	-1.73	11.27	-674.47	-105.63	-127.83
2340	4	0.35	0.29	-7.68	-14.53	13.01	0.65	8.94	-715.74	-52.08	-43.60
2341	1	0.27	0.16	-5.00	-22.06	14.70	5.02	-2.16	-389.35	-48.81	18.79
2341	2	0.66	0.13	-7.46	-19.00	17.06	8.69	2.11	-427.79	-7.29	-7.03
2341	3	0.89	0.47	-13.30	-12.42	14.43	-51.93	19.36	-232.51	15.09	25.30
2341	4	0.57	0.59	-8.61	-17.07	14.62	-38.17	22.90	-130.79	7.12	18.84
2342	1	0.24	0.10	-7.73	-19.27	17.51	5.33	7.62	-453.09	-9.39	1.49
2342	2	0.65	0.08	-11.41	-12.08	16.96	-3.09	7.38	-568.27	-44.05	-58.52
2342	3	0.78	0.30	-15.70	-9.71	16.50	-62.53	15.24	-570.46	-26.69	42.32
2342	4	0.44	0.37	-12.80	-10.33	13.50	-56.81	20.56	-518.32	-20.41	61.48
2343	1	0.20	0.07	-10.63	-10.10	14.35	-6.40	12.17	-716.79	-42.41	-35.30
2343	2	0.62	0.06	-11.87	-4.42	9.27	-3.96	10.35	-928.41	-97.51	-132.04
2343	3	0.64	0.23	-12.24	-0.60	3.59	-43.45	5.54	-1077.13	-44.47	-49.45
2343	4	0.29	0.25	-13.95	-4.38	8.49	-59.43	14.27	-737.67	-18.92	86.86
2344	1	0.20	0.06	-7.22	-10.97	5.54	5.07	11.86	-873.57	-176.36	-215.46
2344	2	0.75	0.07	-3.98	-14.67	1.29	-0.91	12.17	-855.89	-200.78	-199.92
2344	3	0.65	0.24	-5.34	-9.77	-0.01	-2.65	12.56	-941.97	-206.55	-232.24
2344	4	0.17	0.22	-8.54	-6.90	5.24	1.17	12.06	-970.22	-156.79	-206.10
2345	1	0.15	0.07	-0.95	-18.99	0.42	-3.02	6.10	-788.66	-171.70	-152.64
2345	2	0.70	0.09	0.49	-23.40	1.40	-2.74	6.62	-696.32	-141.56	-93.82
2345	3	0.46	0.32	1.39	-21.49	-0.52	-5.54	4.05	-748.66	-182.54	-160.48
2345	4	-0.01	0.27	-1.76	-15.68	-1.69	-4.43	10.40	-866.13	-209.60	-217.13
2346	1	0.10	0.10	0.32	-25.48	2.66	-2.99	0.99	-624.08	-133.04	-44.39
2346	2	0.64	0.12	-0.16	-27.67	4.00	-0.65	2.52	-572.92	-144.01	22.78
2346	3	0.24	0.46	1.91	-25.20	2.74	-1.99	3.02	-578.03	-167.07	-67.37
2346	4	-0.21	0.37	1.43	-24.43	0.56	-2.79	3.35	-661.83	-171.21	-130.59
2347	1	0.16	0.06	-9.37	-4.40	5.32	-2.49	11.13	-1081.73	-184.36	-124.87
2347	2	0.58	0.07	-6.60	-5.80	-0.64	-1.27	15.06	-1079.19	-171.60	-219.34
2347	3	0.49	0.25	-7.08	-2.00	-1.44	-0.69	8.17	-1310.95	-97.76	-251.12
2347	4	0.14	0.23	-9.75	-0.67	2.90	-29.41	3.80	-1250.34	-28.69	-47.09
2348	1	0.12	0.08	-4.71	-9.31	-4.63	1.35	11.98	-1017.02	-161.25	-160.33
2348	2	0.53	0.10	-0.98	-17.04	-7.86	-9.07	13.95	-858.93	-164.52	-153.40
2348	3	0.33	0.37	-3.94	-6.74	-6.25	29.45	15.88	-1042.07	-173.87	-243.77
2348	4	-0.01	0.30	-6.41	-1.70	-3.06	17.10	9.73	-1289.39	-108.94	-246.39
2349	1	0.07	0.13	0.18	-20.11	-9.69	-12.36	5.87	-769.05	-146.23	-69.97
2349	2	0.46	0.16	1.36	-25.88	-9.15	-13.07	-1.09	-631.55	-159.79	-60.39
2349	3	0.16	0.59	-1.60	-16.76	-10.45	28.61	24.04	-682.60	-201.27	-282.64
2349	4	-0.16	0.47	-4.13	-10.33	-8.58	33.76	18.36	-930.96	-147.59	-276.67
2350	1	0.29	0.16	-27.91	0.59	-4.61	0.06	4.09	-178.29	-519.36	-29.39
2350	2	0.74	0.14	-29.22	1.96	-4.05	0.46	2.60	-239.87	-418.34	17.87
2350	3	1.00	0.53	-28.79	3.40	-1.53	6.66	2.92	-277.53	-424.22	122.35
2350	4	0.63	0.58	-27.87	0.92	-1.88	7.56	-0.17	-209.07	-507.20	75.94
2351	1	0.25	0.13	-29.84	2.69	-3.37	0.05	1.75	-284.21	-325.79	59.17
2351	2	0.69	0.12	-30.16	3.72	-2.60	2.13	2.53	-375.91	-324.56	144.74
2351	3	0.83	0.47	-29.82	4.34	-2.49	4.41	0.60	-357.60	-237.97	121.38
2351	4	0.45	0.50	-30.11	4.31	-1.41	2.69	4.01	-312.58	-330.12	142.76
2352	1	0.20	0.12	-28.98	3.52	-2.33	3.24	1.61	-327.03	-190.79	66.76
2352	2	0.65	0.12	-25.04	2.08	-1.98	6.62	0.98	-377.09	-126.60	90.38
2352	3	0.68	0.44	-24.72	1.84	-3.56	8.36	-0.94	-393.39	-120.25	89.12
2352	4	0.29	0.45	-28.68	3.54	-3.18	4.29	-2.06	-299.37	-174.04	104.97
2353	1	0.22	0.18	-26.31	4.35	-8.03	-12.75	10.69	-323.63	-425.48	207.36
2353	2	0.54	0.16	-27.96	4.01	-9.27	-15.79	2.54	-390.10	-246.10	180.36
2353	3	0.72	0.59	-28.38	3.08	-2.40	45.91	-13.16	-619.97	-150.70	211.76
2353	4	0.46	0.66	-26.04	3.72	-0.73	37.18	-16.28	-522.58	-260.61	297.12
2354	1	0.19	0.14	-29.41	4.79	-7.85	-7.09	-1.60	-413.16	-250.02	182.00
2354	2	0.52	0.13	-28.81	2.91	-8.49	-4.60	-0.69	-401.45	-151.29	114.24
2354	3	0.62	0.48	-29.80	1.04	-3.02	49.12	-10.71	-483.46	-61.47	99.12
2354	4	0.35	0.53	-29.67	2.09	-1.11	47.46	-10.60	-482.26	-104.96	176.24
2355	1	0.16	0.12	-28.01	2.57	-6.49	1.65	-5.56	-415.37	-127.60	135.72
2355	2	0.50	0.12	-24.25	0.28	-6.52	6.97	-4.31	-399.96	-151.55	52.21
2355	3	0.51	0.44	-26.13	-0.43	-3.67	42.03	-3.51	-478.30	-114.12	16.29
2355	4	0.23	0.45	-29.29	0.67	-2.17	46.05	-10.11	-456.14	-47.98	81.32
2356	1	0.17	0.12	-20.51	0.68	-1.70	8.74	0.00	-356.09	-105.47	50.54
2356	2	0.62	0.12	-13.70	-1.17	-0.98	10.29	0.72	-327.05	-221.17	66.46
2356	3	0.53	0.45	-14.41	-1.53	-2.95	10.66	1.05	-290.76	-174.83	-8.99
2356	4	0.14	0.44	-20.62	0.23	-3.59	9.80	-2.55	-347.21	-110.05	58.60
2357	1	0.12	0.12	-8.82	-1.99	-0.22	9.67	0.76	-345.23	-224.02	107.78
2357	2	0.58	0.13	-3.35	-2.37	0.91	9.34	0.27	-295.36	-240.76	26.15
2357	3	0.37	0.50	-4.50	-3.64	-0.57	8.66	0.46	-211.46	-161.63	-4.20
2357	4	-0.02	0.47	-9.72	-2.64	-2.03	10.04	-0.27	-470.46	-111.28	97.33
2358	1	0.08	0.14	-0.35	-2.29	1.60	7.14	0.91	-205.17	-316.71	-22.27
2358	2	0.53	0.16	3.02	-1.77	2.31	7.16	-4.03	-174.32	-414.05	-69.51
2358	3	0.19	0.59	1.62	-3.67	1.80	6.59	-0.56	-204.21	-350.03	-87.36
2358	4	-0.18	0.53	-1.52	-3.90	0.56	9.14	-4.01	-203.36	-212.68	-40.60
2359	1	0.13	0.12	-21.05	-0.10	-4.62	10.09	-4.75	-267.88	-55.27	43.27
2359	2	0.47	0.12	-15.14	-1.86	-4.26	11.36	-0.59	-730.85	-27.91	-64.54
2359	3	0.39	0.45	-17.41	-1.52	-4.29	31.19	-4.79	-299.64	-121.01	-31.45
2359	4	0.12	0.44	-23.36	-0.53	-2.20	37.24	-3.76	-405.25	-39.66	-2.10
2360	1	0.10	0.13	-11.15	-2.33	-3.10	11.09	-6.77	-210.30	21.13	70.80
2360	2	0.43	0.14	-5.63	-3.80	-2.62	8.12	2.41	-301.28	-114.40	15.70
2360	3	0.27	0.53	-7.56	-2.28	-3.61	24.11	2.47	-274.53	-22.44	-20.11
2360	4	0.00	0.48	-13.60	-1.39	-3.54	13.12	0.91	-298.40	-11.27	-27.80
2361	1	0.06	0.16	-2.36	-4.42	-2.05	5.55	0.19	-240.54	-120.64	-41.44
2361	2	0.39	0.13	1.14	-5.75	-1.29	3.22	-1.25	-280.46	-153.63	-70.39
2361	3	0.14	0.67	-0.27	-4.13	-2.60	13.62	10.56	-115.44	-46.74	-53.93
2361	4	-0.12	0.59	-4.46	-2.91	-3.10	22.97	6.67	-227.13	-8.82	-35.90
2362	1	0.36	0.13	-2.17	4.03	-2.75	-4.41	-5.16	-455.12	-170.67	10.37

2362	2	0.90	0.10	-4.92	4.28	-3.00	-3.36	-1.29	-426.14	-217.61	126.67
2362	3	1.21	0.38	-6.04	4.41	-2.31	1.45	-2.36	-338.81	-195.40	131.37
2362	4	0.77	0.47	-4.62	2.51	-2.03	0.85	-5.71	-321.45	-224.17	113.50
2363	1	0.30	0.09	-6.32	4.77	-3.04	-1.12	-0.52	-421.11	-168.88	102.98
2363	2	0.85	0.08	-6.12	5.35	-2.97	4.08	2.42	-522.17	-283.21	41.67
2363	3	1.01	0.28	-5.25	5.61	-3.25	6.34	-0.61	-508.04	-115.68	-51.38
2363	4	0.54	0.33	-6.82	5.36	-2.39	2.97	0.81	-372.99	-160.43	113.25
2364	1	0.25	0.07	-3.18	5.58	-3.08	6.53	-1.99	-430.32	-124.35	-151.16
2364	2	0.80	0.06	2.57	5.33	-1.96	11.37	-4.40	-558.13	-89.13	-200.72
2364	3	0.83	0.24	3.43	3.86	-2.15	12.44	-3.32	-593.41	-58.21	-176.16
2364	4	0.35	0.25	-2.14	4.82	-3.38	8.09	-5.28	-392.41	-154.14	-137.14
2365	1	0.27	0.16	-4.78	2.40	-3.65	-1.84	-1.32	-296.24	-153.79	100.22
2365	2	0.66	0.13	-5.19	3.54	-5.11	-1.83	-1.12	-336.28	-77.98	70.90
2365	3	0.89	0.48	-3.98	2.79	-2.57	25.49	-8.93	-137.32	-31.17	65.40
2365	4	0.57	0.60	-5.17	2.09	-1.19	19.56	-10.79	-127.89	-73.29	74.30
2366	1	0.24	0.10	-5.36	4.85	-5.07	1.05	-2.47	-340.49	-118.24	57.32
2366	2	0.65	0.08	-3.00	3.58	-5.04	7.39	-2.58	-418.69	-10.29	-35.32
2366	3	0.78	0.31	-1.23	1.42	-2.51	32.36	-7.28	-298.51	-13.58	8.80
2366	4	0.44	0.36	-3.67	2.41	-2.35	28.01	-10.16	-174.86	-38.65	29.24
2367	1	0.20	0.07	-0.74	3.33	-3.94	11.03	-6.60	-353.65	-50.94	-2.48
2367	2	0.62	0.06	4.44	2.95	-1.97	14.29	-4.18	-610.33	-87.77	-173.27
2367	3	0.63	0.24	5.09	0.36	-0.69	23.57	-1.03	-660.15	-38.19	-61.59
2367	4	0.29	0.26	0.45	1.19	-2.12	29.64	-7.98	-410.00	2.57	41.93
2368	1	0.20	0.06	7.36	6.33	0.00	9.78	-7.42	-615.91	-172.33	-278.58
2368	2	0.75	0.07	10.16	9.49	1.97	6.32	-8.73	-592.22	-207.42	-234.94
2368	3	0.65	0.25	10.15	6.33	2.69	6.68	-6.64	-696.86	-207.21	-263.04
2368	4	0.17	0.24	7.77	4.04	0.14	10.64	-7.80	-683.42	-140.38	-229.72
2369	1	0.15	0.08	9.67	12.32	2.48	2.99	-10.61	-555.52	-221.72	-187.04
2369	2	0.70	0.09	7.97	14.49	1.79	-1.83	-11.34	-492.23	-194.63	-112.72
2369	3	0.46	0.33	7.81	11.84	3.09	0.68	-9.59	-568.11	-239.49	-184.58
2369	4	-0.01	0.28	9.78	9.52	3.64	3.98	-8.22	-657.37	-251.80	-245.06
2370	1	0.10	0.10	6.28	15.15	0.89	-3.31	-9.97	-497.38	-168.88	-58.94
2370	2	0.64	0.13	3.63	15.01	-0.40	-4.87	-10.72	-388.25	-152.00	4.54
2370	3	0.23	0.47	3.92	12.30	0.66	-3.24	-9.85	-442.07	-215.25	-92.30
2370	4	-0.21	0.38	6.27	12.63	2.23	-2.77	-9.42	-510.07	-232.11	-139.49
2371	1	0.16	0.06	8.24	2.40	-0.21	11.22	-6.05	-763.23	-69.43	-166.90
2371	2	0.58	0.07	10.29	3.96	2.68	6.36	-6.03	-842.09	-182.94	-247.18
2371	3	0.49	0.26	11.96	1.48	2.54	3.23	-2.84	-1042.04	-97.24	-223.02
2371	4	0.14	0.24	8.27	0.42	-0.31	17.85	-3.53	-894.97	-14.19	-62.16
2372	1	0.12	0.08	11.49	5.50	4.14	1.61	-7.24	-824.02	-165.03	-203.15
2372	2	0.53	0.10	9.53	8.41	5.11	0.27	-5.09	-727.69	-221.19	-202.28
2372	3	0.32	0.38	11.19	3.84	5.51	-10.33	-4.73	-909.84	-191.68	-351.71
2372	4	-0.01	0.31	12.77	1.68	3.56	-3.12	-2.32	-1114.24	-106.89	-248.25
2373	1	0.07	0.13	8.09	8.66	4.47	-1.61	-7.36	-[illegible]	-198.82	-120.84
2373	2	0.46	0.16	9.29	9.81	4.20	-2.34	-7.92	-592.23	284.48	-107.77
2373	3	0.16	0.68	6.58	6.32	5.68	-13.24	-11.33	-724.24	257.60	-336.45
2373	4	-0.16	0.46	10.35	4.78	5.57	-13.62	-7.47	-921.33	-196.19	-241.45
2374	1	0.13	0.21	5.27	-0.82	2.69	7.55	-6.86	-91.56	-490.57	-77.36
2374	2	0.47	0.21	7.39	0.35	1.81	9.49	-10.45	-43.27	-517.66	-29.90
2374	3	0.47	0.79	9.40	-3.92	2.63	-0.13	-12.54	-[illegible]	-624.61	-227.43
2374	4	0.13	0.79	9.64	-4.19	3.24	1.59	-5.64	-160.14	-401.47	-133.84
2375	1	0.09	0.21	8.74	1.60	1.06	6.65	-8.31	-97.87	-538.23	-16.01
2375	2	0.32	0.21	10.43	2.10	0.26	9.26	-11.22	-80.72	-521.26	-31.40
2375	3	0.32	0.79	9.62	-3.83	0.57	2.15	-19.34	29.85	-579.21	-50.49
2375	4	0.09	0.79	9.48	-4.03	1.79	2.74	-17.54	61.76	-599.61	-117.65
2376	1	0.09	0.21	-11.02	-3.27	-0.80	-0.07	2.34	-25.86	-519.42	-3.76
2376	2	0.32	0.21	-11.01	-3.23	-0.73	-3.18	16.91	-36.40	-519.82	23.91
2376	3	0.32	0.79	-9.72	3.95	-0.66	13.27	19.34	22.30	581.66	22.03
2376	4	0.09	0.79	-8.60	3.73	-0.65	11.96	10.23	-1.04	-592.73	
2377	1	0.09	0.21	10.88	2.57	-0.89	-4.09	-11.62	-14.34	-495.94	23.64
2377	2	0.35	0.21	10.16	2.65	-0.93	-1.87	1.15	-11.90	-500.36	48.24
2377	3	0.35	0.79	11.75	-1.43	-0.71	8.01	-3.98	-23.75	-546.23	55.73
2377	4	0.09	0.79	9.96	-1.49	-0.70	8.55	-14.23	-15.15	-562.08	32.92
2378	1	0.09	0.21	-8.67	-1.72	0.10	-2.91	2.35	-10.74	-435.88	-88.07
2378	2	0.33	0.21	-9.80	-1.92	-0.06	-5.29	0.90	-13.75	-449.30	-65.82
2378	3	0.33	0.79	-11.88	-0.80	-0.05	-4.35	1.48	-26.92	-494.17	-23.05
2378	4	0.09	0.79	-10.69	-0.56	0.06	-5.27	3.26	-21.68	-510.47	-84.96
2379	1	0.23	0.21	7.13	1.13	1.31	-5.37	2.49	6.92	-394.08	79.63
2379	2	0.86	0.21	4.96	0.17	1.20	-6.80	-1.12	-20.96	-601.82	227.95
2379	3	0.86	0.79	5.10	0.15	2.20	-5.44	2.43	12.58	-536.90	79.26
2379	4	0.23	0.79	8.55	0.45	1.12	-5.28	2.98	-26.84	-440.12	102.31
2380	1	0.30	0.17	3.39	0.06	2.45	3.34	2.90	-24.80	-588.37	-119.36
2380	2	1.10	0.05	6.04	-0.38	1.83	-2.19	-12.70	41.44	-229.67	43.12
2380	3	1.10	0.63	2.26	-0.49	1.86	-3.03	-8.46	-16.15	-357.52	-4.08
2380	4	0.30	0.75	4.09	0.35	2.48	-0.18	-1.61	5.68	-467.79	0.47
2381	1	0.18	0.21	-27.46	-2.16	-4.22	2.74	-4.87	-64.99	-627.17	-65.42
2381	2	0.67	0.21	-27.32	-1.17	-5.35	2.32	5.77	-111.76	-601.36	-64.33
2381	3	0.67	0.79	-26.19	-0.53	-4.06	3.12	3.37	-99.61	-642.22	4.39
2381	4	0.18	0.79	-26.80	-1.51	-3.55	3.39	-4.94	-53.41	-620.75	-19.04
2382	1	0.21	0.21	-29.51	-4.82	-1.61	2.20	-5.94	28.04	-450.17	3.27
2382	2	0.78	0.21	-28.77	-4.52	-3.17	3.68	1.26	-51.16	-495.90	-66.82
2382	3	0.78	0.79	-27.95	-4.13	-2.91	3.13	2.09	-13.92	-469.10	-12.99
2382	4	0.21	0.79	-29.58	-4.72	-1.65	3.69	-6.16	14.16	-471.62	15.99
2383	1	0.21	0.34	1.07	10.62	1.30	0.65	20.24	-372.32	-16.49	[illegible]
2383	2	0.79	0.34	0.76	10.35	1.27	0.32	15.19	-369.15	29.81	61.42
2383	3	0.79	1.28	3.18	25.29	0.54	-1.19	15.35	-327.14	12.64	47.71
2383	4	0.21	1.28	4.61	25.42	0.90	-2.86	14.74	-268.74	9.56	36.07
2384	1	0.21	0.29	-2.88	-11.15	0.90	0.98	13.10	-360.25	12.69	50.54
2384	2	0.79	0.29	-3.11	-11.01	0.69	0.35	13.54	-371.16	10.81	52.02
2384	3	0.79	1.09	-1.01	0.41	0.04	-1.06	15.21	-369.11	28.13	64.81
2384	4	0.21	1.09	-1.15	-0.06	0.47	1.39	11.74	-368.71	11.67	65.82
2385	1	0.21	0.32	-4.99	-22.83	0.29	1.01	5.32	-355.98	15.17	23.65
2385	2	0.79	0.32	-5.04	-22.66	0.23	0.21	5.33	-367.04	17.54	23.99
2385	3	0.79	1.19	-4.16	-17.24	0.41	-0.09	6.61	-369.31	16.60	40.97
2385	4	0.21	1.19	-3.91	-17.47	0.61	-1.24	7.50	-359.80	12.06	41.02
2386	1	0.21	0.23	-4.89	-22.55	-0.01	0.00	-2.06	-354.14	17.24	-0.24
2386	2	0.79	0.28	-4.90	-22.42	-0.07	0.36	-2.68	-[illegible]	17.6.	-0.83
2386	3	0.79	1.06	-5.23	-23.99	0.03	-0.54	-1.37	-365.79	17.56	12.90
2386	4	0.21	1.06	-5.25	-24.16	0.29	0.05	-1.48	-358.37	14.59	11.47
2387	1	0.30	0.21	3.75	0.46	2.52	-4.14	4.91	14.29	-481.32	29.58
2387	2	1.10	0.21	0.91	0.92	1.79	-2.54	-2.91	-14.35	-[illegible]	-15.26
2387	3	1.10	0.79	0.60	1.52	2.26	-1.28	-5.25	9.26	-569.51	-2.04
2387	4	0.30	0.79	3.67	0.93	3.26	-2.25	3.92	0.69	-415.62	8.51
2388	1	0.23	0.21	9.55	0.35	1.63	-6.05	3.60	-46.52	-471.21	10.34
2388	2	0.86	0.21	5.64	0.29	2.39	-2.00	-3.61	11.26	-467.43	39.41
2388	3	0.86	0.79	6.15	0.70	2.66	-3.68	-2.60	-7.11	-431.13	40.44
2388	4	0.23	0.79	9.89	0.17	2.83	-5.33	4.13	-27.51	-459.91	70.35
2389	1	0.09	0.21	-11.71	0.59	0.91	-2.95	2.48	-29.96	-[illegible]	-69.37
2389	2	0.33	0.21	-12.83	0.56	0.44	-1.79	-3.23	-33.58	-513.46	-74.29
2389	3	0.33	0.79	-13.22	0.99	1.46	-0.[illegible]	-10.78	-33.66	-585.11	-69.09
2389	4	0.09	0.79	-12.28	0.76	2.40	-1.76	9.77	-18.21	-[illegible]	-81.46
2390	1	0.09	0.21	9.14	-5.21	0.74	15.46	-2.62	-10.35	-[illegible]	60.01
2390	2	0.35	0.21	12.13	-4.60	0.21	12.59	-9.34	-26.73	-[illegible]	72.05
2390	3	0.35	0.79	12.19	-5.61	1.92	15.15	-12.70	-27.56	-[illegible]	72.20
2390	4	0.09	0.79	8.79	-6.34	1.55	15.13	16.41	-[illegible]	[illegible]	23.34
2391	1	0.09	0.21	-6.49	[illegible]	[illegible]	[illegible]	[illegible]	23.41	-[illegible]	-56.35

2391	2	0.33	0.21	-2.41	9.43	0.58	23.87	3.17	54.17	-640.85	-44.91	2405	4	0.09	0.79	9.25	0.87	2.50	2.29	26.91	27.17	-415.62	354.77
2391	3	0.33	0.79	-1.90	9.80	1.88	20.50	-23.03	52.27	-578.37	-144.27	2406	1	0.13	0.21	5.60	-3.84	3.14	-1.56	8.80	-253.58	-453.37	130.76
2391	4	0.09	0.79	-6.04	9.54	1.42	16.37	12.39	15.12	-622.27	-123.20	2406	2	0.47	0.21	4.68	-4.66	2.45	-5.14	3.32	-105.91	-491.96	173.33
2392	1	0.09	0.21	1.80	-7.17	2.31	-0.13	-0.49	191.51	-489.81	116.70	2406	3	0.47	0.79	8.81	1.66	1.73	2.45	9.05	-195.14	-432.39	303.18
2392	2	0.32	0.21	1.04	-7.95	1.13	-5.13	-14.64	125.47	-601.86	51.30	2406	4	0.13	0.79	6.60	2.10	2.08	3.27	13.00	-173.01	-495.12	241.06
2392	3	0.32	0.79	0.87	-7.71	1.45	-6.86	-10.94	22.59	-572.12	140.99	2407	1	0.18	0.21	-23.83	-2.25	-3.85	6.66	-7.15	-104.54	-666.97	142.95
2392	4	0.09	0.79	1.97	-7.36	2.67	-3.61	7.39	64.46	-549.46	148.30	2407	2	0.67	0.21	-18.66	-2.91	-3.39	10.39	1.56	-167.91	-775.96	169.56
2393	1	0.13	0.21	4.34	-6.26	3.32	-3.07	-1.90	-271.37	-512.65	-86.75	2407	3	0.67	0.79	-16.09	-5.91	-6.77	11.01	0.50	-174.28	-799.42	220.38
2393	2	0.47	0.21	2.93	-7.01	2.78	-6.89	-7.33	-316.58	-566.58	-19.25	2407	4	0.18	0.79	-23.38	-4.21	-5.82	8.32	-12.58	-141.09	-783.31	214.69
2393	3	0.47	0.79	3.29	-6.54	2.64	-7.10	-1.29	-57.54	-579.17	75.15	2408	1	0.21	0.21	-29.38	-3.75	-1.54	1.26	-4.28	14.92	-377.42	87.35
2393	4	0.13	0.79	4.96	-6.29	3.32	-2.75	3.94	-209.66	-562.55	-59.77	2408	2	0.78	0.21	-26.72	-3.78	-2.91	4.71	0.20	-48.89	-495.79	118.11
2394	1	0.18	0.21	-26.12	-1.40	-3.29	4.19	-5.69	-58.22	-645.00	15.70	2408	3	0.78	0.79	-26.98	-4.31	-3.78	5.32	-3.82	-93.95	-519.16	202.11
2394	2	0.67	0.21	-24.52	-0.42	-3.12	3.98	5.99	-107.04	-674.67	48.88	2408	4	0.21	0.79	-29.51	-3.83	-1.53	-1.30	-7.82	-27.65	-408.71	129.57
2394	3	0.67	0.79	-21.14	-1.13	-2.67	6.44	3.60	-140.77	-736.29	115.48	2409	1	0.21	0.34	0.30	11.13	0.62	3.60	14.28	-20.63	38.75	70.92
2394	4	0.18	0.79	-24.86	-1.63	-3.30	6.12	-5.81	-136.86	-660.21	81.85	2409	2	0.79	0.34	1.08	11.80	-0.10	4.47	16.37	-197.16	38.29	66.17
2395	1	0.21	0.21	-30.05	-4.79	-1.46	4.95	-5.49	4.56	-366.01	33.60	2409	3	0.79	1.28	2.45	26.02	0.56	1.85	8.99	-318.08	18.76	112.68
2395	2	0.78	0.21	-27.46	-4.01	-2.65	4.39	1.24	-19.24	-453.38	22.35	2409	4	0.21	1.28	2.19	25.31	0.93	-3.66	12.96	-300.49	23.41	86.40
2395	3	0.78	0.79	-27.12	-3.90	-2.61	4.03	2.15	-37.84	-452.15	66.99	2410	1	0.21	0.29	-2.86	-10.61	0.22	1.66	13.31	-265.91	26.94	44.41
2395	4	0.21	0.79	-29.83	-4.45	-1.36	6.45	-4.35	9.61	-373.42	69.72	2410	2	0.79	0.29	-2.43	-10.42	0.01	0.72	13.45	-404.73	22.66	46.32
2396	1	0.21	0.34	0.43	10.37	1.16	2.45	15.95	-365.50	31.44	69.03	2410	3	0.79	1.09	-0.33	0.98	-0.21	0.14	15.54	-430.87	27.67	52.79
2396	2	0.79	0.34	0.34	10.99	1.01	0.62	15.72	-368.93	37.36	71.70	2410	4	0.21	1.09	-1.04	0.95	0.10	-1.97	15.71	-367.14	35.81	54.29
2396	3	0.79	1.28	3.05	25.26	1.03	-3.26	17.04	-306.40	21.29	71.57	2411	1	0.21	0.32	-4.86	-22.21	0.07	0.01	0.66	-392.23	19.10	20.73
2396	4	0.21	1.28	3.61	25.41	0.96	-2.98	16.89	-315.92	19.97	57.80	2411	2	0.79	0.32	-4.68	-22.23	0.00	0.15	5.59	-401.07	16.85	19.02
2397	1	0.21	0.29	-3.11	-10.91	0.58	1.32	13.04	-378.51	24.69	50.30	2411	3	0.79	1.19	-3.60	-16.80	0.01	0.07	6.85	-402.04	19.24	37.31
2397	2	0.79	0.29	-3.06	-10.80	0.40	1.33	13.24	-386.40	27.57	47.49	2411	4	0.21	1.19	-3.85	-16.82	0.08	0.97	6.56	-398.30	22.95	24.26
2397	3	0.79	1.09	-1.20	0.85	0.32	0.71	13.72	-385.32	32.89	58.94	2412	1	0.21	0.28	-9.76	-22.14	-0.04	0.08	-2.69	-386.37	16.49	-1.12
2397	4	0.21	1.09	-1.21	0.61	0.62	-1.69	15.33	-376.19	29.13	64.39	2412	2	0.79	0.28	-9.64	-22.05	-0.11	0.09	-2.71	-395.02	14.31	-1.09
2398	1	0.21	0.32	-5.02	-22.53	0.17	0.04	5.45	-375.09	18.95	23.46	2412	3	0.79	1.06	-9.95	-23.93	-0.09	-0.04	-1.49	-390.77	15.20	18.04
2398	2	0.79	0.32	-4.94	-22.38	0.11	0.53	5.40	-385.26	19.59	22.94	2412	4	0.21	1.06	-9.19	-23.72	-0.06	0.43	-1.46	-388.98	17.60	11.33
2398	3	0.79	1.19	-4.06	-16.89	0.10	-1.13	6.85	-387.94	23.60	36.94	2413	1	0.30	0.21	3.66	1.49	5.19	-2.29	6.00	9.54	-376.02	6.51
2398	4	0.21	1.19	-4.15	-17.07	0.32	0.20	6.72	-377.76	21.59	39.61	2413	2	1.10	0.21	0.53	1.82	4.01	-0.14	-10.29	2.60	-371.04	1.11
2399	1	0.21	0.28	-4.88	-22.33	-0.09	0.26	-2.75	-378.24	17.79	-8.53	2413	3	1.10	0.79	0.53	1.82	4.01	-0.14	-10.29	2.60	-371.04	1.11
2399	2	0.79	0.28	-4.63	-22.12	-0.07	0.37	-2.71	-379.58	17.40	-8.82	2413	4	0.30	0.79	3.99	1.40	5.79	-2.61	-1.45	9.42	-364.63	10.01
2399	3	0.79	1.06	-5.19	-23.75	-0.06	-0.29	-1.41	-382.93	18.30	11.93	2414	1	0.23	0.21	8.66	2.14	9.70	-2.02	6.03	9.47	-321.80	50.52
2399	4	0.21	1.06	-5.24	-23.80	0.00	0.46	-1.40	-372.99	18.29	12.72	2414	2	0.86	0.21	6.08	1.52	4.12	-4.66	-5.28	8.31	-377.80	18.80
2400	1	0.30	0.21	3.59	1.20	3.54	-3.23	5.42	-4.02	-398.90	2.40	2414	3	0.86	0.79	6.61	1.87	8.09	-0.93	-3.50	19.65	-359.90	28.76
2400	2	1.10	0.21	0.60	1.70	2.87	-1.52	-6.71	5.60	-374.73	-1.65	2414	4	0.23	0.79	8.45	2.64	9.21	-5.16	5.62	20.36	-339.99	51.69
2400	3	1.10	0.79	0.66	1.54	3.11	-1.49	-8.62	-1.89	-377.53	-2.47	2415	1	0.09	0.21	-9.89	-2.37	4.59	-0.05	4.03	10.76	-372.54	-73.96
2400	4	0.30	0.79	3.55	3.52	4.16	-3.22	6.14	-2.66	-385.10	3.06	2415	2	0.33	0.21	-11.37	-3.95	-1.67	-5.46	-26.45	7.04	-366.03	-49.17
2401	1	0.23	0.21	9.74	0.52	3.61	-3.97	4.75	-15.24	-431.64	52.96	2415	3	0.33	0.79	-10.93	-4.41	-2.22	-7.04	-21.23	23.65	-387.26	-88.52
2401	2	0.86	0.21	6.19	0.57	3.24	-4.09	-4.91	-12.14	-414.76	21.03	2415	4	0.09	0.79	-9.68	-4.13	-3.04	-6.78	-4.54	19.96	-359.54	-74.80
2401	3	0.86	0.79	6.15	1.20	3.44	-3.73	-5.27	-1.79	-390.45	18.54	2416	1	0.09	0.21	14.08	4.99	2.41	-4.10	39.41	-7.59	-387.91	165.12
2401	4	0.23	0.79	9.14	1.19	4.56	-4.23	5.24	-4.51	-396.88	50.07	2416	2	0.35	0.21	12.16	4.49	3.79	-9.03	-14.21	2.01	-396.26	122.13
2402	1	0.09	0.21	-11.75	0.40	3.15	-3.63	5.30	-20.79	-463.39	-32.05	2416	3	0.35	0.79	13.05	8.43	2.80	-10.14	-13.14	9.96	-323.62	106.29
2402	2	0.33	0.21	-12.71	0.33	2.70	-1.06	-21.07	-14.64	-460.82	-95.61	2416	4	0.09	0.79	17.11	9.15	2.46	-20.08	22.11	-1.78	-391.61	130.06
2402	3	0.33	0.79	-11.73	-1.12	2.21	-4.04	-27.21	-7.36	-420.58	-94.34	2417	1	0.09	0.21	-15.58	-7.09	3.21	-7.60	10.66	-23.15	-339.26	-174.62
2402	4	0.09	0.79	-10.74	-1.24	4.50	-3.19	9.86	-6.45	-416.29	-72.84	2417	2	0.33	0.21	-16.61	-7.15	3.01	-9.65	-40.65	-5.23	-387.92	-241.17
2403	1	0.09	0.21	9.65	-4.37	3.04	13.20	21.23	-7.90	-589.25	144.14	2417	3	0.33	0.79	-22.85	-12.99	1.71	-11.52	-19.30	-61.05	-632.11	-169.56
2403	2	0.35	0.21	12.26	-4.00	3.09	10.82	-18.89	-22.18	-539.27	114.91	2417	4	0.09	0.79	-19.79	-12.49	1.62	-13.51	11.69	-23.35	317.21	-141.29
2403	3	0.35	0.79	12.07	0.32	3.97	1.08	-20.54	-6.62	-468.77	126.77	2418	1	0.09	0.21	14.85	7.00	1.86	6.05	20.10	-100.31	-804.13	251.36
2403	4	0.09	0.79	12.14	0.25	3.97	0.49	39.25	-6.04	-467.44	166.69	2418	2	0.32	0.21	16.67	7.61	1.42	6.59	-2.79	-93.71	-787.81	257.56
2404	1	0.09	0.21	-7.69	6.95	2.44	13.64	15.66	-16.19	-571.20	-163.64	2418	3	0.32	0.79	22.96	11.64	0.81	12.75	-9.69	-77.62	-741.14	177.59
2404	2	0.32	0.21	-4.39	7.82	2.50	15.83	-18.12	26.66	-574.44	-185.17	2418	4	0.09	0.79	20.20	11.02	0.95	10.42	11.79	-110.91	-591.19	197.82
2404	3	0.33	0.79	-10.75	0.38	3.14	6.76	-41.32	10.71	-480.66	-355.20	2419	1	0.13	0.21	8.74	7.04	0.64	8.69	12.35	-94.29	-549.76	226.23
2404	4	0.09	0.79	-11.40	0.16	3.47	5.73	12.81	9.78	-487.71	-264.67	2419	2	0.47	0.21	12.45	6.82	0.87	9.68	8.71	-145.26	-461.94	240.33
2405	1	0.09	0.21	4.16	-4.97	2.84	-0.93	13.56	14.13	-513.41	210.24	2419	3	0.47	0.79	17.08	10.65	0.06	13.93	2.46	-154.13	-440.73	199.39
2405	2	0.32	0.21	3.41	-5.45	1.64	-2.17	-10.71	11.16	-555.12	210.35	2419	4	0.13	0.79	12.24	10.15	-0.94	12.07	7.55	-141.13	-535.57	217.66
2405	3	0.32	0.79	10.09	0.70	1.79	0.15	-9.21	16.32	-461.30	299.99	2420	1	0.18	0.21	-22.55	-6.11	-7.38	8.54	-14.69	-176.42	-710.11	269.92

2420	2	0.67	0.21	-16.55	-7.26	-9.84	10.00	-2.45	-156.11	-764.08	212.78
2420	3	0.67	0.79	-20.23	-7.15	-11.54	8.21	-2.05	-117.94	-682.10	119.21
2420	4	0.18	0.79	-24.29	-8.24	-7.84	9.62	-14.02	-233.42	-680.54	179.68
2421	1	0.21	0.21	-31.44	-5.70	-1.70	6.97	-12.90	-170.20	-464.80	192.35
2421	2	0.78	0.21	-27.66	-5.54	-4.63	7.69	-6.17	-184.49	-529.64	233.48
2421	3	0.78	0.79	-28.06	-7.23	-4.91	11.43	-6.21	-331.75	-560.49	171.21
2421	4	0.21	0.79	-35.26	-9.02	-1.95	12.94	-13.18	-427.18	-617.03	109.17
2422	1	0.21	0.34	2.67	11.93	-0.78	1.03	18.55	-406.97	28.28	61.10
2422	2	0.79	0.34	4.30	11.13	-0.19	2.09	20.02	-429.71	6.02	54.10
2422	3	0.79	1.28	11.48	30.26	-0.05	16.55	25.67	-443.98	21.06	137.14
2422	4	0.21	1.28	4.29	27.25	-0.39	11.28	14.54	-359.37	17.75	131.38
2423	1	0.21	0.29	-2.07	-10.45	0.00	1.23	14.68	-410.29	17.21	37.83
2423	2	0.79	0.29	-1.56	-10.40	0.11	0.68	13.26	-418.41	8.16	36.87
2423	3	0.79	1.09	0.82	1.25	0.24	-2.20	16.20	-411.37	8.04	51.86
2423	4	0.21	1.09	0.61	0.95	-0.05	3.23	13.44	-412.04	19.61	50.68
2424	1	0.21	0.32	-4.52	-22.17	0.01	0.93	5.48	-407.27	13.86	18.11
2424	2	0.79	0.32	-4.33	-22.10	0.05	-0.07	5.55	-415.59	9.49	17.29
2424	3	0.79	1.19	-2.92	-16.66	0.09	1.37	7.24	-418.21	9.57	30.22
2424	4	0.21	1.19	-3.45	-16.77	0.02	0.23	7.84	-407.95	15.52	30.39
2425	1	0.21	0.28	-4.54	-21.99	-0.11	0.32	-2.57	-401.17	12.06	-1.95
2425	2	0.79	0.28	-4.40	-21.88	-0.09	0.45	-2.19	-405.40	9.15	-2.38
2425	3	0.79	1.06	-4.70	-23.43	0.00	-0.23	-1.29	-412.95	8.67	8.56
2425	4	0.21	1.06	-4.80	-23.52	-0.03	0.76	-1.31	-405.09	12.95	9.26
2426	1	0.30	0.21	5.52	1.41	6.21	-2.85	13.90	10.49	-346.89	20.69
2426	2	1.10	0.21	1.79	1.70	6.36	0.84	-15.21	-1.84	-376.75	2.07
2426	3	1.10	0.79	3.50	0.26	4.60	-24.12	-19.97	-3.99	-363.21	3.19
2426	4	0.30	0.79	7.66	1.00	6.76	6.83	16.27	19.23	-332.65	48.90
2427	1	0.23	0.21	8.67	3.12	3.83	-5.81	6.83	32.79	-320.64	54.24
2427	2	0.86	0.21	6.68	1.35	3.32	-4.02	-19.90	24.78	-349.11	35.34
2427	3	0.86	0.79	7.31	1.02	2.77	-8.74	-11.46	29.59	-325.94	40.35
2427	4	0.23	0.79	10.15	2.20	2.75	-7.36	8.90	34.36	-305.03	56.98
2428	1	0.09	0.21	-10.36	-4.39	2.52	-7.24	4.29	30.96	-305.49	-67.17
2428	2	0.33	0.21	-11.08	-5.09	1.44	-10.40	-10.77	26.67	-270.81	-76.09
2428	3	0.33	0.79	-13.47	-5.49	0.62	-8.93	-6.15	25.62	-265.20	-62.46
2428	4	0.09	0.79	-11.72	-4.79	0.54	-6.63	2.27	31.56	-289.94	-65.37
2429	1	0.09	0.21	18.94	10.06	1.40	-22.19	11.92	-3.61	-277.47	99.48
2429	2	0.35	0.21	14.19	9.35	1.34	-18.67	-10.38	13.20	-292.76	86.39
2429	3	0.35	0.79	15.73	8.65	0.26	-19.57	-4.72	11.02	-278.67	61.66
2429	4	0.09	0.79	20.35	9.76	0.27	-17.63	9.27	-1.24	-264.62	61.06
2430	1	0.09	0.21	-21.66	-12.93	0.92	-13.20	8.36	-28.70	-291.39	-10.35
2430	2	0.33	0.21	-25.11	-12.97	0.99	-16.07	-8.33	-56.27	-307.10	-110.35
2430	3	0.33	0.79	-26.15	-12.48	-0.01	-14.25	2.12	-47.46	-304.24	-58.56
2430	4	0.09	0.79	-23.21	-11.86	-0.04	-14.50	2.46	-29.27	-282.68	-58.96
2431	1	0.09	0.21	22.52	11.31	0.27	9.32	4.42	-113.60	-379.90	123.05
2431	2	0.32	0.21	25.47	12.15	0.34	10.63	-9.46	-91.21	-330.62	119.64
2431	3	0.32	0.79	26.37	10.82	-0.09	9.38	-2.60	-58.03	-324.23	58.38
2431	4	0.09	0.79	24.01	10.26	-0.27	10.94	-2.04	-57.00	-348.67	58.92
2432	1	0.13	0.21	14.74	9.99	-1.07	11.36	2.42	-198.31	-493.18	157.12
2432	2	0.47	0.21	19.75	10.96	-0.31	15.60	0.99	-124.06	-417.90	140.28
2432	3	0.47	0.79	21.27	9.59	-0.56	13.76	-2.76	-124.27	-398.17	56.89
2432	4	0.13	0.79	16.99	8.50	-1.65	12.18	-0.49	-155.65	-447.91	78.27
2433	1	0.18	0.21	-25.26	-8.69	-3.29	10.41	-14.38	-122.16	-263.64	109.85
2433	2	0.67	0.21	-22.58	-6.62	-10.66	6.49	0.76	-120.38	-272.11	34.36
2433	3	0.67	0.79	-24.48	-5.50	-6.25	6.36	2.24	-154.27	-609.20	-52.96
2433	4	0.18	0.79	-26.27	-7.96	-5.22	7.46	-6.97	-230.51	-701.3	-57.93
2434	1	0.21	0.21	-36.93	-10.56	-1.52	18.11	-6.59	-476.07	-731.65	-85.65
2434	2	0.78	0.21	-28.70	-8.14	-4.23	12.47	2.72	-340.96	-564.07	50.42
2434	3	0.78	0.79	-25.48	-7.16	-3.25	12.60	1.80	-327.37	-582.22	50.42
2434	4	0.21	0.79	-37.13	-10.68	-1.42	20.75	-9.62	-418.71	-742.63	11.32
2435	1	0.21	0.34	4.98	11.01	0.84	2.06	15.19	-420.58	-11.46	56.74
2435	2	0.79	0.34	4.77	11.25	1.71	0.53	18.17	-425.19	-19.65	69.60
2435	3	0.79	1.28	10.99	30.91	1.22	21.65	31.11	-535.20	3.62	89.91
2435	4	0.21	1.28	9.35	30.46	0.84	-20.69	27.35	-523.37	2.96	111.99
2436	1	0.21	0.29	-1.17	-10.31	0.36	1.68	15.78	-412.62	3.78	33.60
2436	2	0.79	0.29	-1.14	-10.16	0.88	1.47	14.71	-432.26	-1.36	42.13
2436	3	0.79	1.09	1.79	1.97	0.94	-9.89	15.02	-443.86	-7.97	51.99
2436	4	0.21	1.09	2.37	1.75	0.48	6.23	17.97	-429.44	-0.95	56.86
2437	1	0.21	0.32	-9.22	-22.03	0.17	1.21	0.45	-421.45	5.23	12.57
2437	2	0.79	0.32	-9.13	-21.86	0.29	0.33	5.64	-420.15	0.51	17.13
2437	3	0.79	1.19	-2.75	-16.40	0.39	0.72	7.72	-432.49	0.34	31.80
2437	4	0.21	1.19	-2.99	-16.62	0.24	-1.37	7.08	-424.18	4.96	29.88
2438	1	0.21	0.28	-9.34	-21.80	-0.06	0.32	-2.59	-415.30	4.89	-2.51
2438	2	0.79	0.28	-9.25	-21.68	-0.02	0.49	-2.60	-423.14	-0.31	-2.96
2438	3	0.79	1.06	-9.51	-23.20	0.05	-0.60	-1.28	-427.81	0.12	7.79
2438	4	0.21	1.06	-9.55	-23.32	0.02	0.72	-1.35	-419.16	5.25	8.69
2439	1	0.30	0.25	8.53	-0.22	5.35	-7.43	6.21	32.76	-235.26	45.51
2439	2	1.10	0.37	7.18	-3.58	6.11	2.35	-12.96	28.12	-329.07	22.39
2439	3	1.10	0.95	18.63	-5.16	4.92	21.22	26.54	101.85	-278.17	29.40
2439	4	0.30	0.81	7.96	-1.42	2.34	-10.43	11.05	48.63	-332.53	35.62
2440	1	0.23	0.21	11.27	3.93	1.95	-3.65	7.02	30.19	-302.50	54.22
2440	2	0.86	0.21	9.14	2.79	2.19	-2.90	3.36	32.37	-320.36	46.52
2440	3	0.86	0.79	11.57	1.63	2.26	-5.54	-12.32	24.96	-721.40	48.13
2440	4	0.23	0.79	13.82	3.22	0.85	-3.90	5.47	31.26	-302.56	49.38
2441	1	0.09	0.21	-12.69	-4.73	-0.17	-8.56	7.67	26.89	-491.71	-51.75
2441	2	0.33	0.21	-14.52	-5.16	0.10	-10.39	1.09	21.39	-469.21	-49.27
2441	3	0.33	0.79	-16.53	-4.98	-0.42	-9.59	2.51	8.39	-288.11	-21.42
2441	4	0.09	0.79	-14.80	-4.47	-0.89	-9.17	1.77	17.74	-439.[illegible]	[illegible]
2442	1	0.09	0.21	21.06	8.40	-0.31	-10.42	-9.10	[illegible]	[illegible]	37.41
2442	2	0.35	0.21	17.02	8.47	-0.36	-9.19	0.54	7.25	[illegible]	40.[illegible]
2442	3	0.35	0.79	18.26	6.74	-1.15	-11.54	0.72	[illegible]	[illegible]	21.10
2442	4	0.09	0.79	21.17	7.58	-1.05	-14.08	-12.24	-11.66	-20.[illegible]	10.27
2443	1	0.09	0.21	-23.47	-10.53	-0.52	-9.96	-0.65	-19.85	-259.52	-26.77
2443	2	0.33	0.21	-25.77	-10.59	-0.55	-10.07	[illegible]	-24.69	-[illegible]	-13.40
2443	3	0.33	0.79	-24.11	-8.79	-0.91	-9.65	0.76	[illegible]	-[illegible]	8.64
2443	4	0.09	0.79	-22.56	-8.51	-0.89	-4.14	-1.[illegible]	-21.00	-323.[illegible]	-1.36
2444	1	0.09	0.21	23.59	8.76	-0.66	8.99	-3.60	-23.[illegible]	260.[illegible]	17.39
2444	2	0.32	0.21	25.79	9.33	-0.37	9.07	[illegible]	[illegible]	-[illegible]	13.[illegible]
2444	3	0.32	0.79	23.75	6.97	-0.71	12.64	-0.86	-19.12	-251.[illegible]	-10.33
2444	4	0.09	0.79	21.38	6.20	-0.40	9.[illegible]	-0.[illegible]	-45.14	-276.[illegible]	-[illegible]
2445	1	0.13	0.21	17.32	6.73	-0.98	12.14	-0.42	-105.46	-428.[illegible]	24.76
2445	2	0.47	0.21	21.11	8.07	-0.45	12.09	-[illegible].46	-59.52	380.[illegible]	16.[illegible]
2445	3	0.47	0.79	19.54	5.25	0.13	12.11	-0.49	-75.71	-390.[illegible]	-50.47
2445	4	0.13	0.79	16.46	3.90	0.64	8.65	-5.56	-149.26	392.[illegible]	-41.[illegible]
2446	1	0.18	0.21	-27.02	-6.05	-3.96	8.21	-5.69	-179.32	-212.[illegible]	-89.[illegible]
2446	2	0.67	0.21	-25.48	-3.91	-6.34	5.75	3.[illegible]	-[illegible].5[illegible]	629.[illegible]	-66.[illegible]
2446	3	0.67	0.79	-25.64	-1.94	-5.59	4.[illegible]	7.74	-[illegible].65	-[illegible].2[illegible]	-107.47
2446	4	0.18	0.79	-27.43	-3.24	-3.10	6.58	-0.[illegible]	-107.[illegible]	-766.[illegible]	-121.68
2447	1	0.21	0.21	-35.46	-8.91	-1.38	10.61	1.[illegible]	-[illegible].50	-[illegible].[illegible]	157.[illegible]
2447	2	0.78	0.21	-29.34	-6.74	-2.39	9.[illegible]	5.[illegible]	-[illegible].40	614.[illegible]	-[illegible].65
2447	3	0.78	0.79	-29.55	-5.12	-1.93	8.[illegible]	6.[illegible]	62.[illegible]	-[illegible].[illegible]	-99.[illegible]
2447	4	0.21	0.79	-32.32	-5.40	-1.11	8.[illegible]	-1.[illegible]	4.[illegible]	-[illegible].[illegible]	-[illegible]
2448	1	0.21	0.34	3.57	11.54	2.57	2.[illegible]	15.[illegible]	-451.48	-1[illegible]	39.[illegible]
2448	2	0.79	0.34	2.19	12.57	2.11	2.[illegible]	18.[illegible]	-451.[illegible]	-1.[illegible]	77.[illegible]
2448	3	0.79	1.28	1.90	27.67	1.78	9.[illegible]	18.[illegible]	-[illegible].[illegible]	1.[illegible]	40.[illegible]
2448	4	0.21	1.28	8.49	[illegible].80	2.16	-40.[illegible]	27.[illegible]	-[illegible].[illegible]	[illegible].[illegible]	4[illegible].[illegible]
2449	1	0.21	0.29	-1.31	-9.[illegible]	1.[illegible]	1.[illegible]	[illegible].[illegible]	-[illegible].[illegible]	-[illegible].[illegible]	48.[illegible]

2449	2	0.79	0.29	-1.66	-9.47	1.16	0.41	15.30	-453.70	-1.92	44.26
2449	3	0.79	1.09	1.16	2.16	1.13	-9.43	16.37	-463.25	-2.05	58.63
2449	4	0.21	1.09	1.21	2.14	1.06	4.21	17.62	-437.15	-5.27	59.78
2450	1	0.21	0.32	-4.14	-21.72	0.39	1.28	5.69	-437.02	-2.62	16.73
2450	2	0.79	0.32	-4.18	-21.49	0.41	0.20	5.62	-446.23	-7.69	15.19
2450	3	0.79	1.19	-3.14	-16.05	0.67	0.33	6.41	-449.45	-4.37	30.89
2450	4	0.21	1.19	-2.74	-16.24	0.50	-1.84	7.37	-441.68	-2.24	30.88
2451	1	0.21	0.28	-4.21	-21.54	0.00	0.39	-2.68	-429.01	-4.67	-3.15
2451	2	0.79	0.28	-4.17	-21.37	-0.01	0.49	-2.51	-436.19	-11.50	-3.83
2451	3	0.79	1.06	-4.43	-22.87	0.12	-0.48	-1.22	-442.31	-9.83	6.20
2451	4	0.21	1.06	-4.49	-23.07	0.08	0.43	-1.20	-433.29	-3.69	7.78
2452	1	0.36	0.08	9.30	0.34	0.60	38.87	0.87	285.16	22.78	-14.01
2452	2	1.35	0.08	40.75	-2.37	-6.56	32.28	-27.91	299.98	-12.56	-32.40
2452	3	1.35	0.32	42.39	-0.95	8.34	35.31	31.48	155.76	-24.66	28.91
2452	4	0.36	0.32	8.12	0.07	-0.62	26.32	-0.81	170.87	23.01	10.51
2453	1	0.32	0.08	-25.84	-0.50	0.29	21.91	2.82	263.04	7.04	-11.09
2453	2	1.19	0.08	-9.92	1.17	1.97	18.61	5.78	276.39	-18.17	24.39
2453	3	1.19	0.32	-8.91	1.07	-1.01	21.13	-7.56	182.50	-14.73	-27.95
2453	4	0.32	0.32	-26.66	-0.64	-0.34	15.70	1.28	196.02	7.06	7.52
2454	1	0.28	0.08	34.68	0.08	-0.66	6.79	5.93	254.91	-5.11	-3.32
2454	2	1.06	0.08	39.56	-0.04	0.17	7.46	-3.94	243.26	1.22	11.53
2454	3	1.06	0.32	39.91	0.06	-0.16	5.47	-2.55	217.08	1.20	-8.08
2454	4	0.28	0.32	34.00	-0.12	1.04	8.04	-0.40	205.41	-6.13	6.79
2455	1	0.17	0.12	-4.22	-0.91	-0.20	-18.07	0.49	-622.88	-170.92	97.69
2455	2	0.62	0.12	-13.44	-0.93	-0.53	-16.83	-1.25	-535.29	-298.61	67.73
2455	3	0.53	0.45	-12.55	-0.44	0.21	-17.69	-3.33	-578.30	-232.21	1.88
2455	4	0.14	0.44	-3.96	-0.57	1.21	-20.13	1.40	-639.47	-145.23	54.18
2456	1	0.12	0.12	-18.78	-2.01	-0.98	-15.19	0.38	-451.20	-384.76	36.11
2456	2	0.58	0.13	-23.99	-4.81	-1.34	-13.90	-1.13	-324.53	-462.92	0.32
2456	3	0.37	0.50	-22.66	-2.66	-2.78	-14.19	-1.16	-386.34	-410.32	-83.34
2456	4	-0.02	0.47	-17.73	-1.02	-1.08	-17.89	-1.30	-497.76	-316.42	-44.46
2457	1	0.08	0.14	-26.95	-6.91	-1.40	-12.49	0.66	-257.99	-466.58	-11.43
2457	2	0.53	0.16	-30.89	-9.79	-1.39	-11.97	1.20	-182.94	-402.47	-23.35
2457	3	0.19	0.59	-27.86	-8.35	-3.99	-15.65	-1.04	-226.45	-459.55	-92.33
2457	4	-0.18	0.53	-25.04	-4.86	-3.59	-17.28	-0.19	-315.12	-463.89	-99.89
2458	1	0.13	0.12	-3.77	-0.60	2.82	-21.06	1.20	-681.75	-120.64	53.46
2458	2	0.47	0.12	-12.19	-0.08	1.98	-18.89	-3.93	-631.24	-166.06	-16.76
2458	3	0.39	0.45	-12.38	0.03	0.74	-43.71	-7.55	-726.98	-64.97	-80.29
2458	4	0.12	0.44	-3.63	-0.16	2.04	-45.53	0.87	-791.72	-41.22	18.14
2459	1	0.10	0.13	-17.31	-0.39	2.08	-14.83	-2.38	-593.37	-217.62	-62.92
2459	2	0.43	0.14	-22.67	-0.88	0.52	-10.45	-3.59	-505.93	-316.58	-152.59
2459	3	0.27	0.53	-23.03	-0.67	-2.47	-40.13	-11.93	-644.42	-148.89	-206.47
2459	4	0.00	0.48	-17.43	-0.08	0.28	-43.75	-7.11	-692.28	-68.84	-99.65
2460	1	0.06	0.16	-25.22	-1.84	0.94	-4.15	-0.23	-455.58	-358.11	-189.66
2460	2	0.39	0.18	-27.36	-3.28	-0.25	-3.01	4.56	-378.48	-420.60	-214.98
2460	3	0.14	0.67	-27.69	-2.09	-5.30	-32.49	-14.54	-632.93	-307.47	-348.46
2460	4	-0.12	0.59	-26.03	-0.66	-2.80	-39.21	-11.70	-665.13	-190.91	-246.30
2461	1	0.16	0.12	-3.43	1.28	-0.17	-17.59	-0.04	-664.96	-73.89	-101.74
2461	2	0.61	0.12	-12.42	1.53	-0.44	-15.94	-0.97	-728.03	63.55	-79.19
2461	3	0.52	0.45	-11.60	1.66	0.55	-16.02	-4.69	-706.18	9.29	-44.61
2461	4	0.14	0.44	-3.08	1.25	1.32	-19.69	0.42	-676.26	-84.19	-66.91
2462	1	0.12	0.12	-17.50	0.67	-0.89	-13.67	-0.11	-773.55	141.33	-56.83
2462	2	0.57	0.13	-21.49	-2.04	-1.35	-11.41	-3.21	-817.33	156.56	-29.31
2462	3	0.36	0.50	-21.36	0.12	-2.98	-12.90	-0.18	-776.20	146.05	-10.04
2462	4	-0.01	0.47	-16.75	1.48	-0.76	-16.93	-2.66	-741.49	98.35	-23.01
2463	1	0.08	0.14	-22.62	-5.02	-1.30	-9.76	-0.42	-846.52	89.90	-3.13
2463	2	0.52	0.16	-23.32	-10.07	-2.62	-12.00	4.58	-827.71	-99.80	37.75
2463	3	0.19	0.58	-24.36	-5.98	-6.48	-13.67	-5.74	-775.11	1.74	28.15
2463	4	-0.18	0.53	-22.90	-1.98	-4.52	-14.74	-2.72	-765.51	135.83	8.12
2464	1	0.13	0.12	-2.69	0.59	3.01	-20.94	-0.46	-696.13	-83.02	-29.27
2464	2	0.46	0.12	-11.09	1.41	2.58	-18.18	-5.51	-698.44	-28.24	-18.72
2464	3	0.39	0.45	-11.14	0.49	1.32	-46.08	-8.94	-789.13	-31.51	-73.12
2464	4	0.12	0.44	-2.37	0.13	2.15	-45.92	-0.05	-826.07	-43.35	-15.59
2465	1	0.10	0.13	-16.22	1.35	3.01	-13.95	-4.29	-671.50	27.84	75.00
2465	2	0.43	0.14	-21.86	1.70	1.47	-8.40	-7.73	-657.15	115.25	111.07
2465	3	0.27	0.53	-22.48	0.49	-1.55	-46.47	-14.45	-546.14	15.54	-25.42
2465	4	0.00	0.48	-16.23	0.40	1.01	-47.87	-9.24	-721.66	-24.66	-36.95
2466	1	0.06	0.16	-24.69	1.43	1.64	-1.87	-2.17	-643.98	112.04	175.42
2466	2	0.39	0.18	-27.18	1.18	-1.06	0.65	5.33	-590.53	61.32	159.96
2466	3	0.14	0.66	-28.81	0.96	-4.74	-39.66	-22.23	-721.00	93.31	81.30
2466	4	-0.11	0.59	-25.97	1.01	-1.68	-46.42	-16.01	-396.62	69.74	43.08
2467	1	0.36	0.12	-11.78	-24.77	5.06	2.89	12.22	-223.29	-806.37	-79.41
2467	2	0.90	0.10	-9.63	-25.83	10.10	9.35	4.06	-334.55	-612.86	-163.58
2467	3	1.21	0.37	-5.29	-26.10	11.39	1.02	8.21	-238.19	-418.92	-94.38
2467	4	0.76	0.46	-6.30	-23.83	7.69	-2.28	13.46	-85.64	-688.94	-74.35
2468	1	0.30	0.09	-5.97	-25.91	12.16	4.00	11.46	-484.27	-350.39	-179.31
2468	2	0.85	0.07	-3.90	-24.35	13.42	12.20	2.59	-683.54	-4.56	-226.93
2468	3	1.01	0.27	-4.19	-22.49	15.35	5.77	5.71	-579.51	102.07	-190.04
2468	4	0.54	0.32	-3.35	-25.74	13.06	1.22	1.02	-409.52	-140.55	-99.47
2469	1	0.25	0.07	-4.73	-19.96	12.97	8.20	5.77	-791.78	98.59	-286.55
2469	2	0.80	0.06	-4.92	-13.53	9.32	2.31	12.05	-933.90	-49.57	-328.75
2469	3	0.83	0.22	-6.71	-9.66	9.76	-1.16	12.07	-962.13	-49.03	-269.25
2469	4	0.35	0.24	-5.17	-15.96	14.25	3.03	7.66	-747.41	68.95	-229.78
2470	1	0.27	0.16	-8.88	-21.47	15.28	7.00	-0.43	-51.49	-460.20	117.26
2470	2	0.66	0.13	-9.97	-19.15	18.96	8.63	3.64	-161.38	-220.04	-16.45
2470	3	0.89	0.47	-15.40	-12.99	15.82	-52.62	19.09	187.51	26.14	-53.72
2470	4	0.57	0.59	-10.58	-17.17	15.63	-39.57	24.32	157.01	-116.74	5.20
2471	1	0.24	0.10	-8.76	-20.43	19.88	9.78	7.63	-251.12	-27.54	-137.64
2471	2	0.65	0.08	-10.73	-13.23	18.70	0.79	7.55	-429.92	39.51	-246.79
2471	3	0.78	0.30	-14.82	-5.14	11.20	-63.74	16.14	-257.77	50.31	-95.56
2471	4	0.44	0.37	-13.87	-11.16	14.69	-58.61	20.82	75.67	48.09	-117.34
2472	1	0.20	0.07	-8.57	-11.06	14.95	-4.15	12.69	-662.39	66.39	-207.71
2472	2	0.62	0.06	-9.11	-4.68	8.79	-7.60	11.82	-986.82	-58.59	-244.73
2472	3	0.64	0.23	-9.12	-0.53	3.29	-40.64	6.21	-1160.41	-60.84	-80.48
2472	4	0.29	0.25	-11.77	-4.55	8.52	-59.62	14.83	-586.93	14.21	6.99
2473	1	0.20	0.06	-4.52	-11.69	4.36	6.14	12.71	-1011.27	-172.39	-313.98
2473	2	0.75	0.07	-1.83	-14.81	0.19	-1.35	12.12	-992.30	-248.41	-259.58
2473	3	0.65	0.24	-2.90	-10.03	-0.96	-1.95	13.21	-1108.71	-254.52	-298.60
2473	4	0.17	0.22	-5.82	-7.33	4.20	1.96	13.43	-1114.99	-165.62	-294.97
2474	1	0.15	0.07	0.92	-18.54	-0.46	-2.95	7.56	-910.79	-234.00	-198.94
2474	2	0.70	0.09	1.95	-22.06	0.48	-2.18	8.10	-811.24	-193.23	-119.51
2474	3	0.46	0.32	3.08	-20.17	-1.01	-4.04	5.38	-980.27	-248.12	-211.84
2474	4	-0.01	0.27	0.25	-15.46	-2.36	-3.56	10.96	-1020.49	-275.80	-277.90
2475	1	0.10	0.10	1.62	-23.48	1.65	-2.77	3.58	-729.00	-168.61	-56.49
2475	2	0.64	0.12	0.61	-24.86	2.78	-1.12	5.41	-668.51	-149.67	18.52
2475	3	0.24	0.46	3.01	-21.95	2.13	-0.90	5.86	-677.30	-223.32	-107.30
2475	4	-0.21	0.37	2.90	-22.20	0.11	-1.35	5.52	-778.04	-232.00	-161.86
2476	1	0.16	0.06	-6.73	-4.46	4.39	-1.99	12.00	-1285.89	-108.25	-197.12
2476	2	0.58	0.07	-4.22	-6.07	-1.61	-0.20	15.66	-1281.90	-217.55	-279.03
2476	3	0.49	0.25	-4.68	-1.99	-1.59	5.41	9.02	-1582.25	-122.51	-206.92
2476	4	0.14	0.23	-6.94	-0.70	2.55	-24.30	4.57	-1443.58	-18.59	-79.57
2477	1	0.12	0.08	-2.67	-9.14	-5.67	2.05	12.26	-1219.01	-203.70	-313.56
2477	2	0.53	0.10	0.83	-16.04	-9.31	-7.30	14.14	-1032.95	-226.27	-206.10
2477	3	0.33	0.37	-1.99	-6.37	-5.61	33.58	16.87	-1286.76	-223.59	-427.44
2477	4	-0.01	0.30	-4.34	-1.86	-2.21	22.70	10.81	-1566.68	-195.01	-280.76
2478	1	0.07	0.13	1.88	-18.18	-9.70	-19.53	6.97	-924.23	-251.51	-104.73

2478	2	0.46	0.16	2.97	-22.48	-8.40	-10.51	1.01	-757.17	-209.67	-85.68
2478	3	0.16	0.59	0.80	-14.49	-8.74	31.51	25.02	-865.78	-274.57	-374.22
2478	4	-0.16	0.47	-1.99	-9.50	-7.87	37.03	19.13	-1163.23	-200.66	-359.42
2479	1	0.29	0.16	-24.31	1.18	-3.45	3.59	3.55	-171.54	-605.20	-23.64
2479	2	0.74	0.14	-23.66	2.43	-3.41	3.75	2.67	-235.18	-485.72	36.54
2479	3	1.00	0.53	-22.77	4.23	-1.80	10.08	2.23	-310.17	-499.74	158.47
2479	4	0.63	0.58	-23.55	1.98	-1.52	9.97	-0.56	-237.54	-595.87	97.73
2480	1	0.25	0.13	-22.75	3.08	-3.24	4.22	1.15	-283.09	-386.09	94.81
2480	2	0.69	0.12	-20.70	3.84	-3.14	5.91	2.39	-378.52	-352.54	208.41
2480	3	0.83	0.47	-20.10	4.74	-3.74	8.52	0.73	-389.08	-283.54	201.89
2480	4	0.45	0.50	-22.54	4.98	-2.18	6.43	2.93	-344.38	-391.00	192.35
2481	1	0.20	0.12	-17.80	3.43	-3.28	6.96	1.14	-337.94	-202.62	154.00
2481	2	0.65	0.12	-11.94	1.68	-3.25	9.07	1.05	-373.27	-108.42	197.84
2481	3	0.68	0.44	-11.53	1.65	-5.22	11.13	0.33	-405.77	-128.43	138.41
2481	4	0.29	0.45	-17.29	3.69	-4.67	8.23	-1.90	-412.16	-203.91	191.41
2482	1	0.22	0.18	-21.71	5.46	-7.64	-9.02	9.38	-410.29	-510.23	251.10
2482	2	0.54	0.16	-21.46	4.84	-9.02	-10.16	2.23	-473.42	-358.79	241.96
2482	3	0.72	0.59	-20.88	3.72	-3.61	48.55	-13.46	-715.57	-197.45	280.42
2482	4	0.46	0.66	-20.79	4.64	-1.92	39.23	-17.46	-709.03	-332.38	383.90
2483	1	0.19	0.14	-21.35	5.45	-8.25	-3.76	-1.93	-493.96	-316.21	245.51
2483	2	0.52	0.13	-18.55	3.39	-9.06	0.82	-2.41	-496.37	-183.82	185.95
2483	3	0.62	0.48	-18.24	1.55	-4.43	54.36	-9.84	-631.13	-81.14	146.69
2483	4	0.35	0.53	-20.67	2.82	-2.85	50.77	-13.95	-658.43	-163.05	241.76
2484	1	0.16	0.12	-16.35	3.04	-7.88	5.90	-4.08	-468.53	-156.20	184.84
2484	2	0.50	0.12	-10.85	0.43	-8.08	9.79	-1.47	-427.55	-95.37	137.06
2484	3	0.51	0.44	-11.34	-0.08	-5.00	52.63	-1.37	-480.90	-16.30	50.37
2484	4	0.23	0.45	-16.34	1.31	-4.04	53.26	-9.58	-566.42	-65.50	125.70
2485	1	0.17	0.12	-6.50	0.11	-3.02	9.85	-0.18	-346.06	-102.90	160.73
2485	2	0.62	0.12	0.54	-1.76	-2.19	10.11	0.26	-305.96	-210.53	160.27
2485	3	0.53	0.45	0.19	-2.37	-4.12	10.82	1.78	-270.32	-150.73	89.44
2485	4	0.14	0.44	-6.54	-0.28	-5.11	11.73	-1.50	-341.50	-106.37	158.90
2486	1	0.12	0.12	4.92	-2.35	-1.28	8.70	-1.60	-324.92	-212.66	175.52
2486	2	0.58	0.13	9.22	-2.05	-0.11	8.26	-0.50	-274.72	-212.39	67.65
2486	3	0.37	0.50	8.92	-4.33	-0.64	8.39	-1.43	-279.86	-116.00	48.41
2486	4	-0.02	0.47	4.51	-3.57	-2.80	10.79	-0.20	-378.37	-75.75	174.50
2487	1	0.08	0.14	11.33	-1.49	0.71	5.85	-3.74	-229.83	-268.79	-1.24
2487	2	0.53	0.16	13.67	-0.58	1.48	6.43	-6.35	-160.74	-342.51	-69.49
2487	3	0.19	0.59	12.89	-3.01	2.04	7.64	0.01	-206.75	-222.85	-67.30
2487	4	-0.18	0.53	10.73	-4.21	0.65	10.11	-1.30	-244.76	-151.18	-2.56
2488	1	0.13	0.12	-7.00	-0.05	-7.20	11.24	-2.15	-359.46	-97.18	131.33
2488	2	0.47	0.12	-8.49	-2.40	-6.59	9.98	1.90	-264.95	-5.70	15.16
2488	3	0.39	0.45	-1.71	-1.54	-4.64	47.13	6.71	-328.88	2.08	7.57
2488	4	0.12	0.44	-8.01	-0.22	-4.65	50.65	-1.64	-401.41	-38.96	31.95
2489	1	0.10	0.13	3.14	-2.91	-6.33	7.47	1.01	-294.90	45.08	141.16
2489	2	0.43	0.14	8.07	-5.03	-5.30	2.49	3.10	-230.84	-70.81	76.22
2489	3	0.27	0.53	6.86	-2.85	-3.34	41.45	11.42	-149.17	3.40	27.31
2489	4	0.00	0.48	1.72	-1.54	-4.28	45.56	6.79	-246.73	-2.09	17.79
2490	1	0.06	0.16	10.41	-5.43	-5.21	-2.28	-0.66	-222.57	-71.71	47.70
2490	2	0.39	0.18	12.68	-7.02	-3.72	-3.93	-5.82	-207.72	-90.79	-35.94
2490	3	0.14	0.67	11.80	-5.25	-2.17	32.19	17.07	-33.90	7.90	16.38
2490	4	-0.12	0.59	9.07	-3.71	-3.43	39.59	11.82	-77.95	27.35	22.28
2491	1	0.36	0.13	-0.93	14.44	-2.23	-5.91	-4.65	-368.18	-161.69	111.55
2491	2	0.90	0.10	-4.43	12.77	-3.02	-5.63	0.07	-312.82	-182.58	112.29
2491	3	1.21	0.38	-6.16	14.07	-3.13	-0.14	-1.90	-224.84	-140.64	101.91
2491	4	0.77	0.47	-4.53	12.49	-1.96	-0.21	-5.63	-228.07	184.16	99.45
2492	1	0.30	0.09	-6.28	13.39	-3.57	-3.19	-0.91	-293.59	123.23	80.13
2492	2	0.85	0.08	-5.91	12.29	-4.05	2.40	2.47	-376.54	-233.50	0.16
2492	3	1.01	0.28	-4.81	11.90	-5.22	4.76	-2.48	-356.57	-59.42	-106.03

2492	4	0.54	0.33	-7.31	13.82	-3.67	0.71	1.65	-243.18	-103.49	72.87
2493	1	0.25	0.07	-1.98	11.06	-4.16	5.91	-4.32	-272.54	-78.56	-204.13
2493	2	0.80	0.06	5.33	9.44	-1.87	13.98	-7.24	-399.65	-65.37	-260.25
2493	3	0.83	0.24	6.74	6.73	-2.18	14.97	-6.52	-939.74	-36.24	-230.21
2493	4	0.35	0.25	-0.46	8.96	-5.03	7.97	-8.67	-232.07	-110.86	-193.54
2494	1	0.27	0.16	-4.26	12.83	-8.06	-8.04	1.20	-184.09	-107.70	74.87
2494	2	0.66	0.13	-4.53	11.53	-9.97	-8.12	-1.45	-197.27	-30.28	39.12
2494	3	0.89	0.48	-1.49	7.19	-6.76	40.02	-15.73	96.41	12.01	-9.67
2494	4	0.57	0.60	-3.48	9.32	-6.20	30.79	-19.49	19.02	-13.34	-0.28
2495	1	0.24	0.10	-4.66	11.81	-9.34	-3.47	-5.97	-186.13	-66.66	12.01
2495	2	0.65	0.08	-1.06	7.40	-8.37	7.71	-5.58	-241.10	26.16	-80.97
2495	3	0.78	0.31	1.69	2.42	-4.55	45.18	-11.59	-87.08	6.15	-39.95
2495	4	0.44	0.38	-1.57	5.55	-5.62	42.53	-16.34	15.53	1.42	-41.67
2496	1	0.20	0.07	1.70	6.03	-5.89	12.20	-11.41	-178.61	-17.23	-50.20
2496	2	0.62	0.06	8.31	3.74	-1.84	16.95	-7.53	-452.99	-75.01	-211.34
2496	3	0.63	0.24	9.27	0.66	-0.42	24.80	-2.34	-501.11	-37.65	-76.15
2496	4	0.29	0.26	3.45	2.27	-3.54	38.37	-12.05	-209.78	22.21	-9.93
2497	1	0.20	0.06	11.04	11.03	1.62	12.71	-10.46	-469.10	-169.39	-337.15
2497	2	0.75	0.07	14.26	17.11	5.03	11.51	-10.38	-465.16	-218.44	-281.42
2497	3	0.65	0.25	14.56	12.25	6.52	10.97	-9.24	-598.55	-224.64	-300.84
2497	4	0.17	0.24	12.02	7.40	1.99	13.12	-11.46	-355.64	-138.00	-280.23
2498	1	0.15	0.08	13.58	22.73	5.78	8.24	-11.06	-442.64	-229.94	-227.37
2498	2	0.70	0.09	12.38	28.13	4.83	3.72	-12.47	-402.66	-181.53	-154.91
2498	3	0.46	0.33	11.46	24.28	7.20	5.19	-8.95	-521.30	-238.19	-210.84
2498	4	-0.01	0.28	13.87	18.72	8.25	9.22	-9.54	-583.73	-267.45	-279.62
2499	1	0.10	0.10	11.46	30.71	3.53	2.54	-10.55	-374.85	-162.85	-109.34
2499	2	0.64	0.13	11.04	32.51	2.03	0.82	-10.22	-356.80	-155.41	-49.54
2499	3	0.23	0.47	8.97	27.59	3.96	0.39	-12.28	-465.40	-206.32	-102.95
2499	4	-0.21	0.38	10.50	27.09	6.10	1.40	-10.69	-490.70	-211.10	-175.31
2500	1	0.16	0.06	13.21	4.25	1.39	12.54	-9.22	-656.39	-59.40	-210.95
2500	2	0.58	0.07	16.37	7.93	6.82	8.69	-10.05	-775.98	-199.70	-295.96
2500	3	0.49	0.26	18.02	3.15	5.34	-7.84	-6.01	-1039.39	-103.44	-204.34
2500	4	0.14	0.24	13.37	0.66	0.20	13.52	-5.35	-766.95	-7.08	-77.59
2501	1	0.12	0.08	17.85	11.01	9.96	5.31	-10.22	-797.42	-174.40	-242.62
2501	2	0.53	0.10	15.34	18.14	12.45	7.46	-12.36	-719.47	-213.85	-236.46
2501	3	0.32	0.38	19.06	8.74	11.68	-25.65	-13.03	-1035.90	-203.85	-379.66
2501	4	-0.01	0.31	20.54	3.45	7.36	-17.37	-7.82	-1106.29	-120.34	-272.15
2502	1	0.07	0.13	14.53	19.42	12.73	5.82	-8.71	-871.28	-174.11	-140.79
2502	2	0.46	0.16	11.70	22.95	11.47	3.27	-7.44	-894.06	-180....	-116.17
2502	3	0.16	0.60	14.25	15.80	13.85	-25.07	-20.21	-713.95	-246.27	-240.80
2502	4	-0.16	0.48	19.35	11.05	12.79	-28.44	-14.07	-948.16	-182.9..	-231.84
2503	1	0.13	0.21	15.29	0.84	1.81	7.63	-9.71	-84.02	-356.61	-91.48
2503	2	0.47	0.21	17.17	2.30	1.07	8.75	-11.59	-39.32	-392.9..	-50.15
2503	3	0.47	0.79	13.20	-3.01	2.08	-0.91	-13.60	-204.02	-487.40	-207.47
2503	4	0.13	0.79	13.97	-3.39	2.88	0.85	-7.49	-135.01	-360.73	-124.95
2504	1	0.09	0.21	18.53	3.65	0.15	7.15	-11.37	-96.34	-401.1.	-40....
2504	2	0.32	0.21	20.31	4.28	-0.22	9.08	-8.48	-81.84	-372.03	-67.77
2504	3	0.32	0.79	13.21	-3.76	0.12	1.97	-14.55	41.73	-484.41	-69.38
2504	4	0.09	0.79	13.16	-2.86	1.02	2.50	-20.07	72.57	-453.83	-121.98
2505	1	0.09	0.21	-20.84	-5....	-1.50	-0.33	-8.13	-29.66	355.0..	25....
2505	2	0.33	0.21	-20.91	-5.70	-1.42	-3.73	25.77	-27.91	-360.4..	50.99
2505	3	0.33	0.79	-14.40	2.65	1.37	14.20	21.3.	35.44	-419.27	-5.1.
2505	4	0.09	0.79	-17.52	2.41	-1.41	12.74	5.04	-0.89	-402.7.	21.49
2506	1	0.09	0.21	20.42	4.99	-1.71	-6.46	-20.2.	-15.69	-379.15	-5.17
2506	2	0.35	0.21	19.16	4.07	-1.78	-4.74	5.82	-11.01	-328.77	15.83
2506	3	0.35	0.79	20.56	0.13	-1.54	6.07	2.48	-3.58	-341.34	12.37
2506	4	0.09	0.79	18.36	0.13	-1.54	8.24	-10.75	-19.08	134.1.	...
2507	1	0.09	0.21	-16.53	-3.75	-0.99	-5.96	...50	2.48	-134.1	-23.13

2536	2	0.67	0.21	-18.70	-0.84	-1.85	10.95	1.78	-207.30	-899.24	226 32
2536	3	0.67	0.79	-17.06	-3.16	-5.16	11.40	-0.10	-146.74	-932.79	316.55
2536	4	0.18	0.79	-24.29	-1.48	-3.81	9.41	-6.87	-87.14	-840.36	281.38
2537	1	0.21	0.21	-31.35	-3.96	-0.96	5.82	-3.40	5.23	-497.99	123.65
2537	2	0.78	0.21	-27.59	-3.51	-1.88	7.35	0 35	-57.28	-563.77	162.55
2537	3	0.78	0.79	-27.49	-3.63	-2.28	5.67	-3.32	-32.02	-613.76	233.50
2537	4	0.21	0.79	-31.75	-4.17	-1.06	3.98	-4.46	7.52	-556.35	160 10
2538	1	0.21	0.34	0.85	12.46	0.65	0.63	15.31	-504.60	21 36	45.27
2538	2	0.79	0.34	0.98	12.52	0.35	1.53	13 23	-532.12	7.61	30.32
2538	3	0.79	1.28	3.70	27.40	0.52	-0.49	15.13	-466.20	15 79	99.02
2538	4	0.21	1.28	3.40	27.09	0.57	-0.29	15.67	-423.36	20.54	88.32
2539	1	0.21	0.29	-2.26	-8.49	0.06	1 98	13.26	-506.99	-19.83	2.40
2539	2	0.79	0.29	-1.83	-8.13	-0.42	0.85	14.34	-516.21	-43.05	-16.67
2539	3	0.79	1.09	-0.39	3.44	-0.05	1.20	15.07	-531.26	-12.71	5.15
2539	4	0.21	1.09	-0.64	2.94	0.34	-0.15	13.69	-513.22	3 66	22 26
2540	1	0.21	0.32	-3.78	-20.72	-0.13	1.13	5.50	-473 38	-53.57	-10.48
2540	2	0.79	0.32	-3.38	-20.67	-0.35	0.31	5.61	-473.07	-76.06	-19.51
2540	3	0.79	1.19	-2.64	-14.95	-0.42	0.44	6.19	-495.31	-58.29	-18.67
2540	4	0.21	1.19	-3.08	-15.01	-0.14	0.63	6.91	-491.69	-36.70	-5.63
2541	1	0.21	0.28	-3.48	-20.87	-0.09	0.56	-2.59	-450.56	-65.53	-8.97
2541	2	0.79	0.28	-3.07	-20.90	-0.13	0.60	-2.73	-447.56	-86.14	-10.23
2541	3	0.79	1.06	-3.47	-22.25	-0.27	0.45	-1 12	-459.02	-82.43	-15.49
2541	4	0.21	1.06	-3.87	-22.26	-0.16	0.72	-1.30	-461.34	-61.10	-10.64
2542	1	0.30	0.21	6.79	5.81	4.92	-5.68	4.42	-0.20	-288.41	-42.41
2542	2	1.10	0.21	1.28	6.93	3.45	-2.40	-8.37	1.38	-383.32	-18.72
2542	3	1.10	0.79	1.01	6.40	4.40	-3.37	-13.40	1.86	-414.66	-16.79
2542	4	0.30	0.79	6.87	5.63	6.14	-10.09	5.51	3.43	-289.07	-42.72
2543	1	0.23	0.21	15.80	6.13	5.11	-6.20	4.92	0.36	-164.43	2.44
2543	2	0.86	0.21	11.15	5.63	4.14	-7.35	-4.08	-2.36	-229.69	-34.23
2543	3	0.86	0.79	11.42	6.11	4.46	-2.48	-2 37	16.59	-207.51	-24.68
2543	4	0.23	0.79	15.12	7.12	5.11	-8.27	4 28	20.48	-118.06	4.51
2544	1	0.09	0.21	-17.98	-6.40	5.38	-7.40	1.77	1.24	-132.33	-35.08
2544	2	0.33	0.21	-19.82	-7.14	2.94	-7.26	-30.04	1.21	-107 81	-71.71
2544	3	0.33	0.79	-19.56	-9 01	2.63	-10.18	-26.33	19.83	-18.17	-65.18
2544	4	0.09	0.79	-17.56	-8.85	4.77	-9.70	2.93	21.76	-66.81	-35.28
2545	1	0.09	0.21	22.67	9.60	4.14	-8.13	44.63	-6.27	-94.74	166.23
2545	2	0.35	0.21	20.98	9.10	4.19	-7.53	-20.29	-3.60	-106.92	106.69
2545	3	0.35	0 79	22.09	14.28	3.27	-18.83	-18 46	4.36	3.17	94.35
2545	4	0.09	0.79	26 44	15 01	3.12	-21.04	31 43	-7.36	24.79	135 17
2546	1	0.09	0.21	-23.89	-11.27	3 52	-5.16	10.69	-28.13	-100.78	-210.44
2546	2	0.33	0.21	-24.40	-11.26	3.27	-7.61	-49.20	-35.12	-107.24	-271.44
2546	3	0.33	0.79	-32.26	-18.46	2.18	-17.02	-25.25	-61.54	-20.80	-196.82
2546	4	0.09	0.79	-29.24	-17.96	2.29	-13.37	13.33	-34.88	18.01	-165.35
2547	1	0.09	0.21	22.07	9.88	1 65	7.19	23 96	-102.46	-177.89	310.36
2547	2	0.32	0.21	24.20	10.59	1.41	9.74	-0 13	-76.52	-128.10	298.05
2547	3	0.32	0.79	32.28	15.52	0.86	13.62	-4.51	-81.39	-58.87	217.65
2547	4	0.09	0.79	29.41	15.05	0.62	11.53	15 92	-114.60	-140.52	239.97
2548	1	0.13	0.21	14.51	10.34	-0.56	10.93	16 75	-92.90	-381.38	347.55
2548	2	0.47	0.21	19.38	9.73	0.23	11 26	12 12	-149 81	-254.88	301.30
2548	3	0.47	0.79	26.00	14.33	-0.90	14.66	7 39	-101.24	-228 37	253.28
2548	4	0.13	0.79	20.66	14.01	-3.13	13.78	12.74	-200.66	-375.60	270 82
2549	1	0.18	0.21	-25.57	-2.57	-5.44	7.63	-13.23	-5.62	-915.03	323.18
2549	2	0.67	0.21	-18.27	-3.70	-8.55	9.98	-3.78	-34.76	-927.16	359.32
2549	3	0.67	0.79	-22.69	-3.55	-11.74	9.45	-4.96	40.87	-868.26	332.96
2549	4	0.18	0.79	-27.71	-2.14	-7.25	-1.02	-15.11	22.79	-996.42	345.05
2550	1	0.21	0.21	-31.95	-4.55	-0.56	6.77	-3.06	19.12	-619.21	178.99
2550	2	0.78	0.21	-28.44	-3.92	-2.47	5.62	-3.18	1.01	-662.25	259 59
2550	3	0.78	0.79	-30.96	-3.94	-3.34	4.80	-0.51	27.90	-757.01	258.25
2550	4	0.21	0.79	-31.71	-3.64	-0.50	13.32	-1.56	16.00	-716.99	191.00
2551	1	0.21	0.34	1.23	13.13	0.34	4.19	14.46	-556.00	-6.52	18.59
2551	2	0.79	0.34	1.57	14.81	-0.01	-2.62	15.68	-594.65	-34.07	0.13
2551	3	0.79	1.28	3.83	27.00	0.96	-3.66	21.76	-577.23	2.02	84.45
2551	4	0.21	1.28	4.28	27.43	0.80	0.75	16.66	-510.30	10.93	100.55
2552	1	0.21	0.29	-1.45	-8.13	-0.72	0.87	13.82	-517.41	-63.08	-29.75
2552	2	0.79	0.29	-0.64	-8.44	-1.07	2.91	13.05	-518.58	-101.42	-44.27
2552	3	0.79	1.09	0.65	4.90	-1.47	6.90	10.35	-570.83	-75.88	-46.53
2552	4	0.21	1.09	0.20	3.89	-0.66	-0.14	13.93	-548.29	-32.88	-12.08
2553	1	0.21	0.32	-2.90	-20.66	-0.53	1.31	5.39	-469.07	-95.21	-25.02
2553	2	0.79	0.32	-2.20	-20.81	-0.67	1.59	5.62	-462.60	-123.85	-29.43
2553	3	0.79	1.19	-1.41	-14.63	-1.11	-1.24	8 64	-492.20	-115.24	-41 35
2553	4	0.21	1.19	-2.44	-14.88	-0.64	1.68	7.07	-498.77	-80.51	-29.91
2554	1	0.21	0.28	-2.71	-20.95	-0.13	0.61	-2.39	-493.56	-102.30	-10.68
2554	2	0.79	0.28	-2.21	-21.07	-0.09	0.71	-2.34	-436.71	-125.59	-10.51
2554	3	0.79	1.06	-2.47	-22.40	-0.45	-0.20	-1.12	-449.16	-125.19	-20.98
2554	4	0.21	1.06	-3.06	-22.29	-0.36	0.94	-1.06	-455.81	-100 24	-18.59
2555	1	0.30	0.21	8.65	5.31	6.89	-5.05	15.52	7.40	-272 16	-29.18
2555	2	1.10	0.21	2.64	5.89	7.26	0.40	-18.37	-7.54	-440.85	-19.82
2555	3	1.10	0.79	4.93	3.12	5.16	-32.49	-25.58	-8.36	-459.62	-23.37
2555	4	0.30	0.79	11.29	4.15	7.77	7.78	17 11	26.54	-270.68	2.21
2556	1	0.23	0.21	14.92	7.58	4.93	-9.63	5.75	32.71	-86.27	7.49
2556	2	0.86	0.21	11.02	5.40	3.58	-6.73	-14.05	25.72	-208.23	-19.54
2556	3	0.86	0.79	10.81	4.55	2.77	-11.45	-13.79	41 35	-194.80	-13 21
2556	4	0.23	0.79	15.90	7.82	3.90	-12.08	8.30	46.32	-54.62	5.73
2557	1	0.09	0.21	-18.07	-9.17	4.02	-10.56	2.10	30.69	-21.72	-31.78
2557	2	0.33	0.21	-20.54	-10.29	2.08	-13.96	-20.34	25.58	33.35	-55.47
2557	3	0.33	0.79	-21.62	-11.01	1.43	-13.04	-12.64	29.63	80.08	-36.29
2557	4	0.09	0.79	-18.77	-10.26	2 01	-11.34	2 24	39.02	18.76	-22.68
2558	1	0.09	0.21	28.99	16 68	2.21	-24 75	19 54	-5.75	78 91	104.96
2558	2	0.35	0.21	23.34	15.70	2.21	-21.37	-14.68	11.39	62.51	75.33
2558	3	0.35	0.79	25.06	16.33	1.40	-26.01	-10.92	11.40	115.04	47.71
2558	4	0.09	0.79	31.28	17.46	1.33	-26.19	11.39	-3.26	130.23	65.95
2559	1	0.09	0.21	-32.06	-19.11	1.50	-14.70	11.80	-28.39	72.52	-129.52
2559	2	0.33	0.21	-35.93	-19.32	1.44	-17.78	-15 70	-57.35	26.16	-148 68
2559	3	0.33	0.79	-39.19	-19.80	0 75	-18.30	-5 56	-50.82	62.70	-88.01
2559	4	0.09	0.79	-35.16	-18.99	0.79	-17.86	7.66	-30.65	120.19	-76.25
2560	1	0.09	0.21	33.49	15.67	0.06	9.30	8.99	-114.26	-115.47	173.53
2560	2	0.32	0.21	36 47	16 66	0.49	10 89	-4.73	-81.74	-24.85	161 11
2560	3	0.32	0.79	39.89	15.91	0.12	9.01	-3.27	-67.64	6.89	95.33
2560	4	0.09	0.79	37 85	15.53	-0.31	8.77	3 07	-90.77	-90 18	106 72
2561	1	0.13	0.21	25.58	13.98	-3 67	11.72	7.48	-199 20	-340.09	199 93
2561	2	0.47	0.21	30.81	15.12	-1.24	16.46	4.50	-127.04	-199.25	188 79
2561	3	0.47	0.79	35 27	14.48	-1 33	13.51	2 46	-116 55	-174.16	115.06
2561	4	0.13	0.79	31.09	13.27	-3.13	12.53	5.63	-154.78	-314.04	129.52
2562	1	0.18	0.21	-30.10	-2.29	-8.99	6.77	-16.36	-70.05	-976.94	361.51
2562	2	0.67	0.21	-26.45	-3.87	-13.20	3.24	-2 69	-83.85	-797 67	282.58
2562	3	0.67	0.79	-27.58	-7 98	-13.61	3.61	-4.84	-465 06	-633 79	267.77
2562	4	0.18	0.79	-30.31	-8.96	-12.56	9.80	-33.68	-395.33	-942.86	377.61
2563	1	0.21	0.21	-30.73	0.14	-1.92	-17.10	4.31	56.03	-799.5	141.45
2563	2	0.78	0.21	-31.48	-2.52	-4.94	-6.40	-6.76	9.48	-897 62	305 32
2563	3	0.78	0.79	-33.77	-5.24	-8.20	-0.38	-15.13	-329.00	-971.00	462.29
2563	4	0.21	0.79	-32.23	0.27	-2.56	-35.60	-23.11	-143.45	-976.25	215.09
2564	1	0.21	0.34	1.40	15.73	-1.19	11.07	9.05	-655.33	-67.18	-37 72
2564	2	0.79	0.34	4.97	17.73	-4.08	15.24	16.79	-685.09	-170.95	-106 37
2564	3	0.79	1.28	-0.85	29.90	-0.96	5.27	-18.44	-736.00	-89.65	5e.38
2564	4	0.21	1.28	0.75	27.25	0.77	-9.15	1 96	-600.10	-2.83	75 93
2565	1	0.21	0.29	0.52	-8.05	-1.53	3.76	12.93	-518.36	-140.18	-53 70

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2594	2	0.43	0.14	-31.32	2.82	3.41	12.61	-4.26	-147.85	-77.40	-42.26
2594	3	0.27	0.53	-33.30	0.74	-1.57	-39.55	-12.87	-137.65	-33.61	-41.20
2594	4	0.00	0.48	-33.70	0.31	0.75	-37.87	-10.70	-158.69	-19.60	-18.01
2595	1	0.06	0.16	-30.16	2.47	4.62	19.05	-0.44	-129.81	-76.78	-39.34
2595	2	0.39	0.18	-28.33	2.67	3.07	17.31	8.72	-108.42	-122.67	-50.74
2595	3	0.14	0.66	-30.31	2.01	-2.61	-33.75	-18.14	-138.09	-69.03	-76.46
2595	4	-0.11	0.59	-32.51	1.72	-0.40	-39.98	-13.96	-144.25	-39.29	-54.71
2596	1	0.36	0.12	-2.77	-26.19	1.70	0.41	1.84	-162.87	-67.78	-27.48
2596	2	0.90	0.10	-2.64	-24.58	3.06	3.17	-0.75	-187.70	-48.44	-2.78
2596	3	1.21	0.37	-1.89	-24.28	4.47	-1.55	1.74	-196.36	-51.30	28.04
2596	4	0.76	0.46	-1.32	-24.48	2.63	-1.86	3.17	-165.39	-73.24	15.13
2597	1	0.30	0.09	-2.53	-22.91	4.20	2.06	4.81	-213.37	-39.48	13.53
2597	2	0.85	0.07	-3.23	-19.35	5.26	4.50	2.70	-244.39	-41.25	31.31
2597	3	1.01	0.27	-3.64	-17.43	7.20	5.28	5.40	-266.46	-47.60	50.19
2597	4	0.54	0.32	-1.49	-22.05	5.42	3.27	-0.35	-227.94	-45.91	38.36
2598	1	0.25	0.07	-5.03	-15.41	5.06	3.94	6.89	-266.75	-47.61	43.59
2598	2	0.80	0.06	-6.80	-11.15	2.06	-3.29	9.76	-276.90	-39.11	57.74
2598	3	0.83	0.22	-8.19	-7.83	2.47	-1.75	10.52	-307.12	-43.22	58.76
2598	4	0.35	0.24	-5.78	-11.80	6.42	3.22	8.74	-294.79	-53.53	56.18
2599	1	0.27	0.16	-4.01	-24.15	12.38	14.11	-6.38	-178.04	-54.85	13.09
2599	2	0.66	0.13	-5.04	-19.50	13.65	17.96	0.17	-223.00	-40.76	10.55
2599	3	0.89	0.47	-9.52	-11.85	12.23	-41.69	17.31	-254.91	-36.00	70.67
2599	4	0.57	0.59	-6.75	-18.05	13.71	-30.31	21.68	-181.58	-52.96	72.71
2600	1	0.24	0.10	-4.92	-18.15	12.82	14.90	8.72	-252.59	-39.87	32.03
2600	2	0.65	0.08	-7.63	-10.68	10.81	3.64	7.43	-305.19	-41.42	32.85
2600	3	0.78	0.30	-10.62	-3.35	6.99	-40.54	12.35	-384.87	-29.86	66.78
2600	4	0.44	0.37	-8.53	-8.87	10.38	-42.60	17.32	-295.68	-45.11	91.53
2601	1	0.20	0.07	-7.96	-7.96	7.37	1.46	13.18	-333.96	-45.72	54.29
2601	2	0.62	0.06	-9.81	-4.41	1.97	-2.29	9.99	-342.09	-29.70	35.41
2601	3	0.64	0.23	-10.50	-0.66	0.41	-8.27	4.76	-403.71	-7.53	16.04
2601	4	0.29	0.25	-9.97	-3.29	5.05	-30.63	11.77	-408.05	-27.55	72.49
2602	1	0.20	0.06	-7.03	-11.17	-2.03	2.22	9.72	-265.23	-13.90	67.31
2602	2	0.75	0.07	-5.87	-15.69	-5.03	-5.95	7.78	-236.52	19.80	71.29
2602	3	0.65	0.24	-6.52	-11.92	-6.53	-4.32	7.56	-223.78	23.79	48.15
2602	4	0.17	0.22	-8.42	-7.79	-2.41	0.49	10.18	-277.09	-15.16	54.02
2603	1	0.15	0.07	-4.52	-19.99	-5.31	-6.99	3.30	-202.26	18.84	52.79
2603	2	0.70	0.09	-3.52	-23.44	-3.84	0.70	5.40	-175.93	-35.29	4.38
2603	3	0.46	0.32	-2.64	-22.71	-5.50	-3.90	2.17	-163.23	-21.08	33.50
2603	4	-0.01	0.27	-4.75	-17.84	-7.43	-7.01	6.46	-187.77	38.56	49.78
2604	1	0.10	0.10	-3.14	-25.94	-2.82	-2.60	-0.64	-202.00	-112.24	-4.69
2604	2	0.64	0.12	-1.00	-27.58	-1.29	-0.66	3.67	-373.02	-165.82	106.33
2604	3	0.24	0.46	-1.25	-25.39	-2.59	2.53	0.47	-102.15	-147.70	37.94
2604	4	-0.21	0.37	-2.71	-25.05	-4.36	3.63	1.56	-108.06	-45.26	8.15
2605	1	0.16	0.06	-10.07	-4.43	-1.90	0.79	10.20	-291.54	-24.58	52.40
2605	2	0.58	0.07	-8.72	-8.04	-7.44	-2.78	13.20	-211.66	12.78	44.77
2605	3	0.49	0.25	-10.75	-3.42	-5.13	29.01	11.37	-207.58	1.94	-10.99
2605	4	0.14	0.23	-10.70	-0.68	-0.39	5.94	4.93	-347.50	-16.00	15.46
2606	1	0.12	0.08	-8.69	-10.86	-10.97	-4.15	7.51	-143.77	14.28	66.67
2606	2	0.53	0.10	-6.10	-18.50	-12.91	-15.50	8.62	-96.45	23.78	46.27
2606	3	0.33	0.37	-9.62	-8.93	-10.75	41.81	16.97	-11.73	24.52	25.66
2606	4	-0.01	0.30	-11.64	-3.34	-7.16	39.11	12.29	-118.24	6.30	16.59
2607	1	0.07	0.13	-5.84	-20.03	-13.62	-18.04	1.33	-106.55	-22.94	30.01
2607	2	0.46	0.16	-4.73	-25.11	-12.74	-12.68	-5.26	-32.35	-104.04	-10.85
2607	3	0.16	0.59	-7.69	-18.52	-14.10	29.74	21.93	45.10	0.67	27.30
2607	4	-0.16	0.47	-10.67	-12.13	-12.56	40.99	16.93	39.30	23.71	39.89
2608	1	0.29	0.16	-27.72	-0.09	0.85	1.87	-0.72	-378.56	-115.59	-138.83
2608	2	0.74	0.14	-28.90	-0.25	1.05	3.84	-1.01	-197.38	-5.29	9.84
2608	3	1.00	0.53	-29.43	0.15	3.87	4.94	0.77	-183.16	26.00	-1.86
2608	4	0.63	0.58	-28.17	-1.72	3.64	5.96	-2.77	-185.34	-45.17	-31.13
2609	1	0.25	0.13	-29.79	-0.16	0.95	5.33	-0.17	-208.65	26.42	10.31
2609	2	0.69	0.12	-30.83	0.15	0.81	4.01	0.27	-190.95	4.62	-11.89
2609	3	0.83	0.47	-31.63	1.18	1.71	1.78	-0.48	-176.55	14.19	-45.35
2609	4	0.45	0.50	-30.95	0.82	3.49	-0.29	1.96	-195.33	-9.51	-35.57
2610	1	0.20	0.12	-30.78	0.25	0.21	4.25	0.22	-150.95	-4.31	-23.86
2610	2	0.65	0.12	-28.65	0.14	-0.36	4.16	0.45	-85.79	-7.13	-20.54
2610	3	0.68	0.44	-29.05	0.46	-1.18	7.52	-1.39	-141.66	-5.36	-46.45
2610	4	0.29	0.45	-31.47	0.97	0.27	3.08	-2.15	-163.10	11.82	-45.71
2611	1	0.22	0.18	-29.31	2.41	-3.02	-17.11	7.52	-108.77	-36.14	-23.59
2611	2	0.54	0.16	-31.23	2.20	-4.55	-19.29	-0.37	-163.99	15.67	-70.31
2611	3	0.72	0.59	-33.70	1.48	0.75	40.14	-14.06	-40.86	20.47	-37.30
2611	4	0.46	0.66	-31.37	1.59	3.02	34.02	-17.84	-5.97	25.61	-43.00
2612	1	0.19	0.14	-32.48	2.39	-3.23	-11.86	-3.51	-143.89	29.59	-55.50
2612	2	0.52	0.13	-32.68	1.13	-4.43	-6.96	-5.26	-153.87	3.08	-68.77
2612	3	0.62	0.48	-34.87	0.14	-0.61	38.69	-10.33	-170.09	1.86	-17.56
2612	4	0.35	0.53	-34.51	0.53	1.89	39.77	-12.86	-97.83	23.91	-19.42
2613	1	0.16	0.12	-32.05	0.86	-2.73	-1.91	-6.66	-174.96	-1.43	-60.57
2613	2	0.50	0.12	-29.49	-0.30	-3.51	4.61	-5.53	-187.68	-22.81	-54.73
2613	3	0.51	0.44	-32.01	-0.62	-2.31	28.28	-4.43	-293.08	-15.80	-25.87
2613	4	0.23	0.45	-34.39	-0.13	0.13	34.52	-9.33	-227.19	-4.32	-7.32
2614	1	0.17	0.12	-25.47	0.03	-0.77	5.60	-1.27	-44.46	-2.82	-8.25
2614	2	0.62	0.12	-19.97	-0.06	-0.86	6.44	0.58	-21.62	14.01	-0.65
2614	3	0.53	0.45	-21.26	-0.29	-2.28	11.22	0.14	-118.20	-30.86	-15.50
2614	4	0.14	0.44	-26.14	0.07	-1.97	9.79	-3.06	-132.15	-19.11	-37.62
2615	1	0.12	0.12	-15.64	-0.08	-0.71	7.71	-1.02	-1.02	9.60	-12.64
2615	2	0.58	0.13	-10.28	-0.18	-0.43	7.70	0.06	-30.07	-58.83	21.04
2615	3	0.37	0.50	-12.40	-0.54	-1.83	8.59	2.12	-131.52	31.16	12.63
2615	4	-0.02	0.47	-17.22	-0.43	-2.20	11.45	-1.53	-128.13	12.80	-11.86
2616	1	0.08	0.14	-6.91	-0.12	-0.28	7.78	-0.69	-185.57	-131.50	85.93
2616	2	0.53	0.16	-3.09	0.18	-0.18	6.34	1.78	-118.07	-356.24	-74.26
2616	3	0.19	0.59	-5.56	-0.40	-0.90	5.87	-0.82	-47.32	-226.62	45.51
2616	4	-0.18	0.53	-9.02	-0.43	-1.35	8.80	0.19	-83.82	-105.49	98.90
2617	1	0.13	0.12	-26.87	-0.39	-1.73	7.99	-6.45	-195.99	-22.39	-35.52
2617	2	0.47	0.12	-22.26	-0.75	-1.98	11.49	-2.70	-185.66	-25.70	-26.36
2617	3	0.39	0.45	-24.75	-1.02	-3.15	14.51	-0.75	-336.21	-18.10	-43.25
2617	4	0.12	0.44	-29.65	-0.63	-1.50	22.18	-5.24	-326.70	-13.21	-20.66
2618	1	0.10	0.13	-18.68	-0.60	-0.49	13.31	-3.20	-176.67	-21.67	7.57
2618	2	0.43	0.14	-13.92	-0.46	-0.47	13.66	-0.16	-171.20	-33.43	13.35
2618	3	0.27	0.53	-16.08	-0.93	-2.76	5.53	0.60	-266.83	-38.12	-51.49
2618	4	0.00	0.48	-21.41	-0.82	-2.22	10.53	-2.47	-322.82	-24.62	-34.92
2619	1	0.06	0.16	-10.95	-0.28	0.47	13.25	-0.51	-154.58	-59.81	0.36
2619	2	0.39	0.18	-7.31	0.04	0.30	12.07	2.89	-102.68	-80.63	18.96
2619	3	0.14	0.67	-9.03	-0.38	-1.47	2.78	0.18	-193.49	-48.25	-65.39
2619	4	-0.12	0.59	-13.09	-0.51	-1.65	4.44	-0.52	-234.06	-18.35	-46.80
2620	1	0.36	0.13	0.22	-1.94	0.37	0.16	-7.33	-137.88	-84.87	71.33
2620	2	0.90	0.10	0.60	-1.39	0.41	1.72	-7.01	-142.65	-67.29	80.31
2620	3	1.21	0.38	0.38	-2.85	0.52	1.41	-5.91	-165.33	-54.74	66.21
2620	4	0.77	0.47	0.10	-3.71	0.55	0.73	-6.06	-197.47	-20.09	36.09
2621	1	0.30	0.09	1.04	-0.99	0.26	1.47	-5.05	-124.98	-39.56	61.12
2621	2	0.85	0.08	1.15	-0.66	0.05	-0.30	-4.61	-117.40	-58.63	72.30
2621	3	1.01	0.28	0.86	-1.11	0.17	0.14	-2.35	-125.32	-68.19	78.49
2621	4	0.54	0.33	0.89	-2.04	0.28	1.30	-5.64	-129.97	-72.54	64.16
2622	1	0.25	0.07	0.69	-0.63	-0.11	-1.22	-1.39	-104.78	-42.27	84.32
2622	2	0.80	0.06	-0.87	-0.61	-0.44	-3.12	0.78	-112.67	-62.61	101.31
2622	3	0.83	0.24	-1.07	-0.54	-0.35	-3.09	-0.82	-93.60	-32.03	60.71
2622	4	0.35	0.25	0.27	-0.70	0.01	-0.97	-0.02	-115.14	-35.35	86.47
2623	1	0.27	0.16	-0.98	-4.86	2.45	6.38	-8.07	-173.49	-89.76	6.91

2623	2	0.66	0.13	-0.26	-2.88	1.92	6.19	-4.84	-138.88	-52.45	30.45
2623	3	0.89	0.48	-1.03	-1.84	1.71	-1.22	-0.03	-191.98	-44.13	65.84
2623	4	0.57	0.60	-2.17	-4.14	3.16	1.26	-1.41	-131.77	-84.86	78.17
2624	1	0.24	0.10	0.37	-2.11	1.30	4.30	-2.04	-160.45	-55.00	59.20
2624	2	0.65	0.08	0.38	-0.84	0.62	0.66	-1.15	-159.67	-22.87	61.51
2624	3	0.78	0.31	0.07	-0.14	0.30	-3.24	0.84	-193.73	-15.64	57.15
2624	4	0.44	0.38	-0.16	-1.13	0.94	-2.31	0.25	-197.61	-41.26	66.03
2625	1	0.20	0.07	-0.01	-0.49	0.13	-1.24	0.67	-138.11	-45.71	74.29
2625	2	0.62	0.06	-1.21	-0.34	-0.35	-3.05	0.53	-83.02	-0.79	51.72
2625	3	0.63	0.24	-1.42	-0.06	-0.18	-1.79	-0.34	-71.51	-0.26	19.59
2625	4	0.29	0.26	-0.23	-0.27	0.19	-2.52	1.26	-151.61	-23.09	42.76
2626	1	0.20	0.06	-2.45	-0.88	-0.59	-3.20	1.01	-97.73	-38.79	26.25
2626	2	0.75	0.07	-3.07	-1.57	-0.39	-0.67	0.25	-43.79	-135.43	11.28
2626	3	0.65	0.25	-2.96	-1.06	-0.73	-1.57	1.41	3.04	-184.62	30.97
2626	4	0.17	0.24	-2.34	-0.57	-0.60	-2.70	1.95	-83.74	-16.21	35.91
2627	1	0.15	0.08	-2.38	-2.23	-0.18	0.28	0.57	-190.99	-271.82	-146.91
2627	2	0.70	0.09	-1.28	-2.92	-0.22	0.42	-2.87	-178.49	-50.62	-107.03
2627	3	0.46	0.33	-1.86	-3.38	-0.56	-0.87	-2.92	-136.30	-116.36	-134.16
2627	4	-0.01	0.28	-2.62	-2.17	-0.67	-0.71	-0.81	-198.48	-138.72	-42.11
2628	1	0.10	0.10	-0.75	-3.23	-0.41	0.50	-6.27	-183.89	-67.02	-61.58
2628	2	0.64	0.13	-0.46	-3.38	-0.68	0.36	-6.91	-170.18	-45.37	-30.74
2628	3	0.23	0.47	-1.04	-5.02	-0.60	0.25	-5.44	-145.01	-85.52	-59.70
2628	4	-0.21	0.38	-1.48	-4.27	-0.64	0.44	-3.92	-159.14	-113.05	-101.00
2629	1	0.16	0.06	-2.39	-0.37	-0.48	-2.17	0.64	-60.98	-31.32	46.11
2629	2	0.58	0.07	-3.08	-0.76	-0.72	-1.78	0.39	32.70	-64.20	-90.04
2629	3	0.49	0.26	-3.26	-0.43	-0.77	0.01	0.30	-23.51	-0.34	-22.24
2629	4	0.14	0.24	-2.43	-0.07	-0.19	-1.39	0.67	15.42	-3.77	15.91
2630	1	0.12	0.08	-3.09	-1.32	-0.95	-1.27	0.71	-161.50	-17.55	-76.55
2630	2	0.53	0.10	-2.60	-2.86	-1.52	-2.64	-0.18	-165.42	-132.83	-117.42
2630	3	0.32	0.38	-3.35	-1.51	-1.76	1.30	0.47	-125.32	-59.45	-60.15
2630	4	-0.01	0.31	-3.48	-0.33	-0.90	0.52	0.44	-69.85	-22.68	-33.88
2631	1	0.07	0.13	-2.54	-3.82	-1.97	-4.33	-3.60	-179.52	-47.45	-88.79
2631	2	0.46	0.16	-2.41	-5.83	-2.48	-4.26	-6.23	-164.66	-89.28	-73.00
2631	3	0.16	0.60	-3.85	-4.72	-3.70	-0.71	-0.21	-167.45	-86.36	-105.66
2631	4	-0.16	0.48	-3.68	-2.27	-2.31	1.29	0.62	-155.55	-62.47	-104.22
2632	1	0.13	0.21	0.04	0.36	-0.24	5.51	0.70	-32.00	-56.53	-46.52
2632	2	0.47	0.21	2.01	0.45	-0.30	4.16	2.09	6.18	-9.01	-12.25
2632	3	0.47	0.79	2.33	1.48	-0.39	6.89	2.38	-73.99	-44.73	-45.44
2632	4	0.13	0.79	-0.01	0.83	-0.43	7.16	0.87	-76.20	-80.29	-72.06
2633	1	0.09	0.21	2.95	0.58	-0.31	2.34	2.68	15.86	2.17	-7.44
2633	2	0.32	0.21	3.50	0.77	-0.13	0.33	5.24	17.98	13.45	1.25
2633	3	0.32	0.79	4.91	2.43	-0.05	7.47	3.26	-58.62	-67.49	-0.18
2633	4	0.09	0.79	3.65	1.97	-0.28	7.42	1.93	-67.95	-47.86	-22.71
2634	1	0.09	0.21	-4.30	-1.44	0.32	3.37	-5.07	-9.83	-168.30	-60.60
2634	2	0.33	0.21	-3.72	-0.97	0.20	3.26	-4.71	14.35	-18.64	-10.74
2634	3	0.33	0.79	-4.93	-1.55	0.25	-8.27	-1.18	-52.38	-74.47	-10.72
2634	4	0.09	0.79	-3.13	-1.02	0.27	-8.71	10.29	-31.14	-119.44	-41.45
2635	1	0.09	0.21	3.43	-1.45	0.00	-11.42	-7.60	-82.02	-357.35	132.88
2635	2	0.35	0.21	0.71	-1.63	-0.31	-10.87	-6.72	-66.14	-361.07	-160.77
2635	3	0.35	0.79	-0.36	-1.96	-0.44	-8.58	9.07	111.80	-233.48	-98.18
2635	4	0.09	0.79	1.70	-1.43	-0.27	-8.63	3.42	104.21	-230.96	17.03
2636	1	0.09	0.21	2.40	-0.13	-0.18	-6.16	-0.49	88.47	-14.41	31.60
2636	2	0.33	0.21	0.88	-0.97	-0.24	-8.57	-3.95	34.18	-171.82	86.08
2636	3	0.33	0.79	1.23	0.44	-0.70	-0.29	14.90	2.01	-124.93	122.31
2636	4	0.09	0.79	1.31	0.37	-0.94	-1.67	0.53	-7.12	-88.78	95.12
2637	1	0.23	0.21	-2.25	-0.13	-0.22	0.93	-0.42	133.91	24.57	-26.85
2637	2	0.86	0.21	-2.48	-0.57	0.60	-0.33	0.17	167.18	-55.79	-16.06
2637	3	0.86	0.79	-1.63	-0.53	0.56	-0.97	4.17	-10.96	-3.00	22.94
2637	4	0.23	0.79	-1.68	-0.32	-0.27	-0.60	1.77	-11.04	-50.28	-62.86
2638	1	0.30	0.17	-2.23	0.06	0.73	6.70	-0.60	124.70	-131.23	38.50
2638	2	1.10	0.05	0.07	0.74	1.08	10.82	5.04	-43.35	-239.21	50.55
2638	3	1.10	0.63	-0.54	-0.69	1.52	-0.35	-2.22	1.13	-503.48	89.66
2638	4	0.30	0.75	-1.35	-0.25	1.63	1.08	-0.46	18.29	-182.41	63.32
2639	1	0.18	0.21	-27.26	-1.13	-0.61	-4.32	4.48	-207.44	-24.40	-13.13
2639	2	0.67	0.21	-27.57	-0.37	0.66	2.57	-4.16	-269.61	-304.56	183.47
2639	3	0.67	0.79	-26.11	-2.91	1.06	1.77	-0.99	-160.68	-168.78	11.55
2639	4	0.18	0.79	-27.71	-4.45	-0.62	8.85	-16.00	-218.75	-169.80	-29.80
2640	1	0.21	0.21	-35.93	-23.85	-7.92	-34.25	-113.18	-468.28	-1019.82	-312.30
2640	2	0.78	0.21	-32.13	-1.98	-9.29	-9.36	9.50	-238.71	-81.14	-12.38
2640	3	0.78	0.79	-28.26	-12.78	-5.19	42.23	0.93	-284.36	-321.10	-145.90
2640	4	0.21	0.79	-33.40	-29.74	-5.15	57.58	44.68	-244.42	-807.52	-127.61
2641	1	0.21	0.34	1.12	9.49	0.51	0.86	21.87	77.49	84.06	-56.79
2641	2	0.79	0.34	2.80	8.52	2.36	2.01	23.06	45.66	-38.10	47.35
2641	3	0.79	1.28	9.72	27.90	0.90	-26.89	31.49	-214.02	-45.60	81.39
2641	4	0.21	1.28	8.03	27.43	-0.18	30.98	17.60	-323.89	-63.10	179.82
2642	1	0.21	0.29	-0.24	-14.91	2.75	0.83	25.35	6.31	64.75	-12.75
2642	2	0.79	0.29	-0.69	-14.59	3.03	-0.51	5.28	-24.12	19.28	0.07
2642	3	0.79	1.09	-0.06	-2.37	2.86	6.16	4.97	-61.17	9.55	-4.32
2642	4	0.21	1.09	-1.31	-2.09	2.72	-5.46	26.72	-9.64	59.19	33.18
2643	1	0.21	0.32	-0.13	-27.08	1.03	0.07	9.97	-149.60	-15.23	-112.40
2643	2	0.79	0.32	-1.21	-26.51	1.34	-0.99	2.57	-101.89	27.99	-20.06
2643	3	0.79	1.19	-0.92	-21.05	2.40	-2.08	3.38	3.69	13.78	-24.46
2643	4	0.21	1.19	0.17	-21.52	1.85	0.67	13.00	13.71	65.25	17.67
2644	1	0.21	0.28	-0.23	-25.83	-0.48	-0.88	-5.15	16.51	54.88	-15.13
2644	2	0.79	0.28	-1.16	-25.54	-0.45	-0.66	-1.88	-30.53	6.47	16.65
2644	3	0.79	1.06	-1.31	-27.64	0.40	-1.41	-2.24	-112.24	25.81	15.96
2644	4	0.21	1.06	-0.29	-28.29	0.23	0.08	-1.89	-150.13	-18.76	121.35
2645	1	0.30	0.21	-0.90	-0.44	1.38	-2.47	3.91	-60.58	-179.67	50.92
2645	2	1.10	0.21	-0.69	-0.66	1.10	3.61	-3.48	-6.65	-442.56	84.91
2645	3	1.10	0.79	-0.29	-0.60	1.23	-0.40	-2.55	-25.78	-370.84	45.04
2645	4	0.30	0.79	-0.29	-0.31	1.22	-1.17	3.19	-47.19	-209.00	63.46
2646	1	0.23	0.21	-0.83	-0.27	-0.16	-0.83	1.37	-7.67	-86.06	-44.10
2646	2	0.86	0.21	-0.73	-0.18	0.42	2.43	-0.82	-37.54	-111.31	22.58
2646	3	0.86	0.79	0.03	0.02	0.35	-0.20	-0.54	-43.93	-175.03	22.00
2646	4	0.23	0.79	0.27	0.18	-0.11	-1.00	3.35	-26.20	-127.79	-18.22
2647	1	0.09	0.21	0.53	0.33	-0.69	2.07	-3.55	4.12	-113.22	77.86
2647	2	0.33	0.21	0.85	0.72	-0.21	3.46	-5.08	24.36	-136.88	52.54
2647	3	0.33	0.79	-0.65	-0.90	-0.36	-3.64	6.11	-7.37	-140.17	52.23
2647	4	0.09	0.79	-0.43	-0.37	-0.77	-1.77	-1.49	-16.22	-137.77	39.82
2648	1	0.09	0.21	1.15	0.55	-0.80	-5.83	-3.72	-24.26	-127.89	-91.92
2648	2	0.35	0.21	-0.38	0.28	-0.53	-7.62	7.48	-20.56	-133.39	-9.52
2648	3	0.35	0.79	0.88	1.40	-0.89	-2.23	8.68	6.73	-115.80	-54.88
2648	4	0.09	0.79	1.80	1.62	-0.97	-4.58	-4.97	4.01	-108.85	-50.11
2649	1	0.09	0.21	-2.45	-0.85	-0.66	-12.42	-12.69	12.53	-127.59	47.17
2649	2	0.33	0.21	-4.73	-1.54	-0.56	-11.69	3.53	-15.39	-103.39	13.25
2649	3	0.33	0.79	-3.57	-2.22	-1.00	-2.95	7.39	-20.73	-107.94	60.46
2649	4	0.09	0.79	-2.41	-2.31	-0.97	-1.84	-5.62	-8.45	-122.58	52.52
2650	1	0.09	0.21	3.71	1.99	-0.25	2.93	-2.00	-43.26	-78.52	-44.10
2650	2	0.32	0.21	5.06	2.18	-0.22	4.93	-0.64	-29.47	-85.53	-29.72
2650	3	0.32	0.79	3.69	2.06	-0.55	3.25	6.57	-28.16	-99.42	-61.99
2650	4	0.09	0.79	2.60	1.87	-0.65	2.97	-2.53	-36.95	-107.91	-65.23
2651	1	0.13	0.21	0.14	1.30	-0.26	6.26	0.57	-59.44	-114.96	-71.02
2651	2	0.47	0.21	2.37	1.84	-0.16	7.70	0.36	-58.78	-85.04	-56.35
2651	3	0.47	0.79	1.74	1.73	-0.26	5.68	-0.82	-25.09	-104.37	-72.96
2651	4	0.13	0.79	0.08	1.38	-0.11	3.87	-0.83	-53.46	-110.73	-66.72
2652	1	0.18	0.21	-26.84	-7.09	1.43	11.29	8.54	-123.05	-220.54	-23.78

2652	2	0.67	0.21	-24.30	-4.87	2.45	5.32	3.55	-57.16	-208.02	-45.26	2666	4	0.21	0.79	-27.33	-6.06	-0.64	5.69	1.40	13.21	-311.76	-3.99
2652	3	0.67	0.79	-21.45	-4.94	3.60	3.76	4.54	4.04	-235.73	-57.19	2667	1	0.21	0.34	1.82	7.87	1.15	-0.06	17.47	-85.79	-11.52	45.84
2652	4	0.18	0.79	-24.09	-5.50	1.26	7.78	4.99	-14.06	-253.93	-77.64	2667	2	0.79	0.34	1.46	7.38	0.97	-1.35	15.24	-92.12	-7.01	41.62
2653	1	0.21	0.21	-28.47	-8.69	2.70	4.82	17.18	20.22	-536.81	-3.16	2667	3	0.79	1.28	4.21	22.63	0.39	-2.53	16.51	-126.69	3.89	27.83
2653	2	0.78	0.21	-26.46	-12.27	3.31	-18.15	7.17	-114.42	-438.43	-182.43	2667	4	0.21	1.28	4.49	23.19	0.46	-0.81	18.87	-146.09	2.27	39.67
2653	3	0.78	0.79	-25.62	-6.90	0.66	4.08	0.70	18.39	-453.98	-72.99	2668	1	0.21	0.29	-1.58	-14.14	1.13	-0.42	14.53	-41.20	-13.75	2.28
2653	4	0.21	0.79	-28.84	-7.49	0.97	0.85	-0.39	46.12	-425.26	-1.13	2668	2	0.79	0.29	-1.96	-13.98	1.06	-0.55	12.77	-52.10	-13.93	14.47
2654	1	0.21	0.34	2.23	7.80	2.33	-1.90	12.58	-63.06	-52.34	87.17	2668	3	0.79	1.09	-0.11	-2.48	1.08	-0.19	14.27	-64.97	-14.90	31.40
2654	2	0.79	0.34	1.68	7.90	1.65	-0.65	14.57	-78.42	-19.92	61.60	2668	4	0.21	1.09	0.22	-2.44	1.35	-1.68	13.57	-51.63	-24.41	40.49
2654	3	0.79	1.28	4.27	24.02	0.65	-1.36	16.04	-156.84	5.10	48.20	2669	1	0.21	0.32	-3.12	-25.52	0.64	-0.12	5.40	-62.56	2.27	-6.11
2654	4	0.21	1.28	3.70	25.83	0.84	-0.92	16.09	-209.24	-8.30	48.33	2669	2	0.79	0.32	-3.61	-25.37	0.57	-0.79	4.58	-62.24	-2.03	1.72
2655	1	0.21	0.29	-0.78	-14.22	1.64	2.07	18.18	-11.89	0.53	15.60	2669	3	0.79	1.19	-2.93	-20.20	0.86	-0.77	5.81	-58.96	-8.18	5.77
2655	2	0.79	0.29	-1.16	-14.09	1.72	-1.44	11.30	-33.74	-17.26	2.73	2669	4	0.21	1.19	-2.49	-20.31	0.97	0.23	7.94	-51.75	-4.43	3.53
2655	3	0.79	1.09	0.37	-2.30	1.67	0.66	14.48	-37.70	-28.25	34.15	2670	1	0.21	0.28	-2.90	-24.76	0.00	-0.45	-3.23	-65.21	6.59	-2.59
2655	4	0.21	1.09	1.35	-2.11	1.80	-3.71	22.60	8.02	0.11	-7.45	2670	2	0.79	0.28	-3.34	-24.59	0.05	-0.33	-2.96	-65.07	1.60	2.20
2656	1	0.21	0.32	-2.01	-26.14	0.84	-0.06	6.13	-84.74	33.11	-5.12	2670	3	0.79	1.06	-3.72	-26.49	0.32	-0.76	-1.68	-63.74	0.55	1.71
2656	2	0.79	0.32	-2.69	-25.79	0.83	-0.76	4.48	-66.58	14.11	-10.08	2670	4	0.21	1.06	-3.24	-26.70	0.38	-0.11	-1.99	-65.93	5.66	5.13
2656	3	0.79	1.19	-1.87	-20.47	1.47	-1.36	4.61	-41.66	-2.37	-12.64	2671	1	0.30	0.21	0.70	-0.11	0.89	-1.47	1.96	-15.33	-240.83	26.36
2656	4	0.21	1.19	-1.56	-20.73	1.23	0.09	8.25	-41.97	-12.22	-34.41	2671	2	1.10	0.21	0.03	-0.23	0.76	-0.19	-1.87	-1.35	-272.53	13.11
2657	1	0.21	0.28	-1.81	-25.22	-0.10	-0.59	-3.78	-47.14	-6.83	35.91	2671	3	1.10	0.79	0.04	-0.19	0.73	-0.45	-1.74	-2.43	-256.38	7.37
2657	2	0.79	0.28	-2.46	-24.93	-0.11	-0.52	-2.85	-62.03	3.95	8.71	2671	4	0.30	0.79	0.80	-0.09	0.92	-1.60	0.99	-13.25	-239.06	16.74
2657	3	0.79	1.06	-2.84	-26.92	0.38	-0.74	-1.82	-73.08	14.68	7.09	2672	1	0.23	0.21	3.07	-0.20	0.13	-2.91	1.20	-28.99	-202.35	9.82
2657	4	0.21	1.06	-2.06	-27.20	0.39	-0.33	-1.43	-86.82	35.18	-3.12	2672	2	0.86	0.21	1.49	-0.03	0.52	-1.03	-1.19	-27.46	-216.25	26.14
2658	1	0.30	0.21	0.16	-0.14	1.06	-0.53	2.00	-27.00	-241.37	59.67	2672	3	0.86	0.79	1.69	-0.03	0.76	-1.09	-0.84	-21.96	-221.50	15.98
2658	2	1.10	0.21	-0.05	-0.46	0.89	-0.06	-2.07	-11.84	-325.35	23.76	2672	4	0.23	0.79	3.45	-0.29	0.80	-3.13	1.77	-28.75	-214.66	9.46
2658	3	1.10	0.79	-0.01	-0.34	0.80	-0.44	-1.68	0.47	-287.98	15.42	2673	1	0.09	0.21	-4.37	0.62	-0.52	0.19	-0.10	-27.94	-204.32	-0.65
2658	4	0.30	0.79	0.53	-0.05	0.92	-1.29	1.44	-16.48	-247.43	37.87	2673	2	0.33	0.21	-4.79	0.84	-0.33	-0.21	2.34	-23.86	-212.85	10.14
2659	1	0.23	0.21	1.15	0.33	-0.28	-1.31	1.42	-29.13	-161.53	-4.14	2673	3	0.33	0.79	-5.41	0.76	0.45	-0.81	-4.18	-27.73	-231.26	-1.80
2659	2	0.86	0.21	0.53	0.08	0.32	-1.26	0.48	-34.16	-180.96	25.31	2673	4	0.09	0.79	-4.85	0.70	0.68	-0.57	2.03	-30.21	-220.16	-4.24
2659	3	0.86	0.79	1.13	0.04	0.38	-1.22	-0.38	-29.15	-204.43	31.22	2674	1	0.09	0.21	1.79	-2.83	-0.84	11.69	-10.34	-7.63	-220.06	-42.57
2659	4	0.23	0.79	2.41	0.01	-0.20	-1.60	1.85	-27.52	-187.18	8.96	2674	2	0.35	0.21	4.04	-2.14	-0.84	11.56	2.00	-17.09	-214.39	-17.37
2660	1	0.09	0.21	-1.46	-0.52	-1.16	0.25	-0.93	-9.76	-151.85	21.87	2674	3	0.35	0.79	4.60	-2.64	0.60	12.49	-2.10	-17.76	-234.53	-1.48
2660	2	0.33	0.21	-1.72	-0.39	-0.75	-1.61	4.28	-4.19	-144.72	31.72	2674	4	0.09	0.79	2.14	-3.31	0.58	13.13	6.91	-7.10	-244.13	-0.26
2660	3	0.33	0.79	-3.48	-0.13	-0.65	-0.48	7.73	-19.01	-183.21	23.60	2675	1	0.09	0.21	0.33	4.01	-0.89	12.00	-0.26	24.21	-212.91	60.77
2660	4	0.09	0.79	-3.06	0.04	-1.05	-2.47	-0.13	-24.77	-183.79	6.22	2675	2	0.33	0.21	2.65	4.50	-0.85	14.58	16.30	36.98	-194.29	86.97
2661	1	0.09	0.21	1.99	1.64	-1.08	-2.63	-11.17	-9.43	-130.93	-54.19	2675	3	0.33	0.79	3.25	5.81	0.37	19.68	-7.86	46.38	-246.96	1.22
2661	2	0.35	0.21	1.90	1.61	-1.24	-0.19	7.48	-11.41	-145.67	-52.07	2675	4	0.09	0.79	0.17	4.98	0.40	15.66	-0.24	24.59	-246.11	2.01
2661	3	0.35	0.79	3.15	-0.21	-1.39	4.58	5.39	-7.22	-185.25	-36.90	2676	1	0.09	0.21	-3.00	-3.31	-0.07	-1.60	-11.31	74.45	-89.53	-170.28
2661	4	0.09	0.79	1.67	-0.34	-1.35	6.09	-15.19	1.62	-175.87	-56.00	2676	2	0.32	0.21	-3.46	-3.60	-0.24	-4.58	-6.05	65.19	-166.60	-120.56
2662	1	0.09	0.21	-2.22	-2.25	-0.94	-1.70	-9.29	-6.75	-118.66	70.61	2676	3	0.32	0.79	-4.34	-5.06	0.05	-5.35	2.57	120.46	-230.19	-9.70
2662	2	0.33	0.21	-2.50	-2.47	-0.91	-4.27	8.68	-11.90	-114.53	73.10	2676	4	0.09	0.79	-3.84	-4.61	-0.04	-0.48	4.34	167.31	-181.50	-17.08
2662	3	0.33	0.79	0.28	0.17	-1.17	2.60	18.67	-2.82	-130.59	102.94	2677	1	0.13	0.21	-1.31	-2.58	0.51	-2.85	-4.01	-130.49	-66.78	-50.59
2662	4	0.09	0.79	-1.13	-0.02	-1.29	4.31	-0.77	-10.49	-160.54	72.16	2677	2	0.47	0.21	-2.13	-2.96	0.33	-4.03	-5.40	-154.99	-65.03	-113.09
2663	1	0.09	0.21	1.58	1.82	-0.52	4.66	-5.13	-24.82	-102.69	-78.15	2677	3	0.47	0.79	-2.92	-4.02	-0.08	-5.94	0.79	-81.85	-135.92	5.73
2663	2	0.32	0.21	2.31	2.15	-0.37	5.29	1.23	-17.84	-107.28	-73.36	2677	4	0.13	0.79	-1.93	-3.29	0.20	-3.50	0.03	-260.05	-73.79	40.48
2663	3	0.32	0.79	-0.63	-0.06	-0.30	2.77	-2.36	-27.55	-113.80	-110.38	2678	1	0.18	0.21	-19.86	-4.68	-0.69	6.09	-0.90	-12.85	-231.35	-49.42
2663	4	0.09	0.79	-0.53	-0.17	-0.19	-0.33	-8.75	-42.56	-97.80	-93.73	2678	2	0.67	0.21	-14.80	-5.88	-1.25	7.22	-1.95	-32.50	-256.70	-59.14
2664	1	0.13	0.21	-0.24	0.98	0.03	3.30	-2.34	-45.44	-118.67	-83.77	2678	3	0.67	0.79	-17.76	-4.47	-3.29	6.90	-4.20	-38.86	-246.31	-33.76
2664	2	0.47	0.21	0.80	1.43	-0.10	3.59	-1.54	-36.50	-117.42	-83.56	2678	4	0.18	0.79	-20.83	-4.12	-1.66	3.78	0.56	-18.18	-219.97	-25.06
2664	3	0.47	0.79	-0.83	-0.42	0.30	1.20	-5.32	-58.45	-113.88	-65.47	2679	1	0.21	0.21	-26.53	-4.78	-0.88	5.09	-1.33	17.50	-277.64	1.11
2664	4	0.13	0.79	-0.62	-0.70	0.39	0.84	-4.61	15.39	-112.35	-111.12	2679	2	0.78	0.21	-22.43	-4.81	-1.59	4.16	6.34	3.30	-345.06	-41.31
2665	1	0.18	0.21	-21.60	-5.03	1.14	1.23	1.57	16.59	-263.28	-86.38	2679	3	0.78	0.79	-23.27	-3.82	-2.64	5.41	4.16	0.07	-322.00	-14.43
2665	2	0.67	0.21	-18.26	-5.31	3.31	8.26	5.59	14.68	-244.17	-70.04	2679	4	0.21	0.79	-26.42	-3.68	-1.57	3.88	-5.20	19.03	-244.37	7.75
2665	3	0.67	0.79	-14.93	-6.09	1.19	7.92	3.20	-7.02	-254.99	-74.47	2680	1	0.21	0.34	1.17	7.14	0.77	-0.11	15.09	-92.09	-2.92	36.89
2665	4	0.18	0.79	-20.07	-4.98	0.26	5.75	3.67	6.37	-247.96	-65.72	2680	2	0.79	0.34	0.96	7.01	0.55	-0.27	15.25	-93.70	1.55	28.74
2666	1	0.21	0.21	-29.11	-7.71	-0.31	3.72	3.27	9.54	-369.19	-22.08	2680	3	0.79	1.28	3.71	21.96	0.30	-1.22	16.06	-101.14	7.89	23.12
2666	2	0.78	0.21	-25.54	-7.32	0.91	10.90	3.10	22.87	-407.13	-36.68	2680	4	0.21	1.28	3.86	22.27	0.34	-0.97	16.15	-113.46	5.77	24.06
2666	3	0.78	0.79	-23.12	-5.99	-0.49	6.07	3.01	8.47	-364.49	-47.52	2681	1	0.21	0.29	-2.20	-13.94	0.79	0.23	13.53	-62.42	-12.65	18.48

2681	2	0.79	0.29	-2.48	-13.92	0.59	-0.53	12.96	-69.31	-8.96	16.86			
2681	3	0.79	1.09	-0.64	-2.66	0.54	-0.04	14.19	-80.27	-5.04	24.82			
2681	4	0.21	1.09	-0.39	-2.56	0.78	-1.52	15.06	-73.40	-9.30	27.32			
2682	1	0.21	0.32	-3.91	-25.26	0.45	0.15	5.13	-63.10	-4.20	4.78			
2682	2	0.79	0.32	-4.21	-25.16	0.36	-0.54	4.91	-64.97	-6.72	5.48			
2682	3	0.79	1.19	-3.43	-20.03	0.50	-0.85	6.16	-66.06	-8.67	10.84			
2682	4	0.21	1.19	-3.14	-20.09	0.63	-0.11	6.74	-60.11	-8.50	7.01			
2683	1	0.21	0.28	-3.62	-24.49	0.09	-0.34	-3.22	-64.84	-1.37	3.67			
2683	2	0.79	0.28	-3.92	-24.39	0.10	-0.23	-3.13	-65.54	-4.62	2.58			
2683	3	0.79	1.06	-4.33	-26.30	0.23	-0.63	-1.80	-64.99	-5.26	3.99			
2683	4	0.21	1.06	-4.03	-26.38	0.28	-0.11	-1.86	-64.66	-2.63	1.77			
2684	1	0.30	0.21	0.83	-0.02	0.97	-1.26	1.81	-10.53	-235.90	10.78			
2684	2	1.10	0.21	0.08	-0.19	0.78	-0.25	-2.02	-2.76	-250.07	3.43			
2684	3	1.10	0.79	0.11	-0.21	0.63	-1.37	-2.05	-2.56	-245.65	-0.89			
2684	4	0.30	0.79	0.69	0.00	0.99	-0.43	1.85	-6.95	-234.41	5.19			
2685	1	0.23	0.21	3.29	-0.06	1.22	-2.09	1.29	-23.45	-218.94	7.00			
2685	2	0.86	0.21	1.59	-0.06	0.92	-1.72	-2.06	-17.39	-225.49	10.22			
2685	3	0.86	0.79	1.45	0.09	1.08	-2.14	-2.64	-12.45	-225.42	4.90			
2685	4	0.23	0.79	2.67	0.20	1.42	-2.34	1.51	-12.44	-218.71	7.11			
2686	1	0.09	0.21	-4.22	0.25	1.37	-2.55	2.07	-22.70	-220.58	-5.68			
2686	2	0.33	0.21	-4.79	0.26	0.91	-0.38	-9.21	-20.59	-226.79	-8.11			
2686	3	0.33	0.79	-3.87	-0.46	1.03	-2.29	-9.69	-10.35	-216.37	-12.92			
2686	4	0.09	0.79	-3.41	-0.38	1.63	-1.28	2.32	-11.36	-217.80	-9.69			
2687	1	0.09	0.21	2.47	-1.34	1.40	8.69	15.34	-8.57	-232.52	20.73			
2687	2	0.35	0.21	4.43	-0.99	1.36	6.69	-6.22	-17.54	-230.55	12.25			
2687	3	0.35	0.79	3.73	0.95	1.36	1.77	-8.29	-9.79	-213.28	18.93			
2687	4	0.09	0.79	3.27	0.91	1.37	0.62	13.68	-9.52	-204.72	27.25			
2688	1	0.09	0.21	-1.37	1.80	1.22	8.46	0.70	-5.93	-228.06	-32.45			
2688	2	0.33	0.21	1.25	2.19	1.11	9.07	-19.83	15.69	-210.97	-46.75			
2688	3	0.33	0.79	-1.96	-1.48	1.01	1.45	-11.77	-19.46	-199.34	-39.16			
2688	4	0.09	0.79	-2.80	-1.54	1.08	3.24	6.01	-14.97	-201.09	-34.26			
2689	1	0.09	0.21	-2.09	-2.09	0.06	1.76	10.95	21.84	-243.87	65.28			
2689	2	0.32	0.21	-2.06	-1.96	0.24	2.15	5.04	-9.46	-216.68	67.64			
2689	3	0.32	0.79	1.17	0.92	0.40	7.15	-1.36	-31.57	-189.30	46.38			
2689	4	0.09	0.79	-0.05	0.50	0.47	5.30	5.96	-36.90	-177.86	44.40			
2690	1	0.13	0.21	-2.05	-2.22	-0.07	1.05	2.48	-151.03	-231.54	177.55			
2690	2	0.47	0.21	-2.38	-2.23	-0.32	-0.75	4.24	46.57	-262.58	79.27			
2690	3	0.47	0.79	-0.95	-0.07	0.09	5.36	1.91	-23.26	-213.58	49.35			
2690	4	0.13	0.79	-2.32	-0.81	0.16	4.86	2.07	-51.76	-235.07	76.20			
2691	1	0.18	0.21	-22.48	-4.11	-1.83	5.21	0.21	-11.84	-216.76	-6.14			
2691	2	0.67	0.21	-20.43	-3.47	-3.46	2.71	-3.96	-31.08	-232.44	-17.58			
2691	3	0.67	0.79	-23.51	-3.34	-2.82	2.48	-5.30	-30.14	-208.67	2.55			
2691	4	0.18	0.79	-24.40	-4.12	-1.69	3.09	-1.10	-12.79	-207.82	19.51			
2692	1	0.21	0.21	-26.86	-3.46	-1.92	3.66	-5.93	14.75	-229.91	13.35			
2692	2	0.78	0.21	-24.30	-2.99	-2.97	4.20	3.86	0.69	-307.06	2.39			
2692	3	0.78	0.79	-25.53	-2.38	-2.93	3.32	5.05	9.25	-298.95	17.63			
2692	4	0.21	0.79	-27.08	-2.94	-1.96	2.69	-6.48	7.04	-224.25	26.59			
2693	1	0.21	0.34	0.91	6.98	0.37	0.46	15.36	-94.10	3.56	24.22			
2693	2	0.79	0.34	0.87	6.97	0.22	-0.04	15.15	-95.83	4.46	19.71			
2693	3	0.79	1.28	3.84	21.92	0.26	-0.03	16.48	-95.66	8.56	21.97			
2693	4	0.21	1.28	3.64	21.86	0.26	-0.21	16.49	-97.80	8.22	22.62			
2694	1	0.21	0.29	-2.62	-13.95	0.40	0.21	13.28	-73.40	-7.21	15.27			
2694	2	0.79	0.29	-2.72	-13.99	0.22	-0.45	12.71	-76.95	-5.93	13.87			
2694	3	0.79	1.09	-0.83	-2.74	0.14	0.26	14.84	-86.63	-1.95	16.40			
2694	4	0.21	1.09	-0.71	-2.71	0.35	-1.04	14.24	-83.35	-2.98	21.91			
2695	1	0.21	0.32	-4.37	-25.12	0.27	0.12	5.04	-66.42	-7.53	6.00			
2695	2	0.79	0.32	-4.54	-25.12	0.20	-0.40	4.98	-68.57	-8.21	6.88			
2695	3	0.79	1.19	-3.69	-19.97	0.20	-0.51	6.41	-72.47	-7.82	10.46			
2695	4	0.21	1.19	-3.59	-19.99	0.35	0.18	6.48	-69.13	-8.17	11.39			
2696	1	0.21	0.28	-4.09	-24.35	0.10	-0.25	-3.12	-66.22	-6.30	2.37			
2696	2	0.79	0.28	-4.27	-24.31	0.10	-0.12	-3.16	-67.61	-7.72	2.74			
2696	3	0.79	1.06	-4.70	-26.21	0.15	-0.65	-1.83	-67.95	-7.84	4.92			
2696	4	0.21	1.06	-4.51	-26.25	0.19	0.07	-1.85	-66.34	-6.74	4.89			
2697	1	0.30	0.25	0.40	-0.11	0.98	-1.66	-0.51	-7.03	-231.95	2.69			
2697	2	1.10	0.37	-0.05	-0.12	0.62	0.63	-1.12	-6.06	-245.87	-5.13			
2697	3	1.10	0.95	-0.33	-0.20	0.85	2.20	-1.96	-10.64	-221.77	5.13			
2697	4	0.30	0.83	0.25	-0.09	0.86	-3.05	1.83	-6.03	-228.76	2.18			
2698	1	0.23	0.21	2.34	0.47	1.38	-1.85	1.36	-5.92	-216.78	8.64			
2698	2	0.86	0.21	1.29	0.19	1.15	-1.27	-0.37	-7.25	-221.57	5.86			
2698	3	0.86	0.79	0.96	0.24	1.06	-0.31	-2.39	-3.97	-224.40	5.31			
2698	4	0.23	0.79	1.98	0.47	1.32	-1.76	0.94	-2.52	-211.93	10.64			
2699	1	0.09	0.21	-2.85	-0.61	1.44	-1.99	2.75	-5.03	-212.63	-10.61			
2699	2	0.33	0.21	-3.32	-0.80	0.82	-3.05	-8.09	-4.21	-206.41	-15.21			
2699	3	0.33	0.79	-3.01	-0.85	0.72	-2.74	-6.56	-1.81	-198.95	-14.91			
2699	4	0.09	0.79	-2.47	-0.76	1.27	-2.78	2.49	-2.05	-205.05	-12.97			
2700	1	0.09	0.21	3.68	1.47	1.02	-2.32	7.89	-8.28	-195.97	22.50			
2700	2	0.35	0.21	3.51	1.38	1.04	0.02	-7.94	-4.88	-202.24	17.57			
2700	3	0.35	0.79	3.43	1.26	0.80	-1.57	-7.06	-2.99	-194.95	16.84			
2700	4	0.09	0.79	3.79	1.37	0.82	-1.82	6.29	-4.31	-188.47	18.98			
2701	1	0.09	0.21	-3.40	-1.83	0.81	3.28	7.24	-4.31	-190.72	-24.75			
2701	2	0.33	0.21	-3.14	-1.68	0.82	0.89	-7.13	-14.34	-187.62	-29.95			
2701	3	0.33	0.79	-3.55	-1.58	0.73	0.80	-5.79	-10.16	-183.53	-20.10			
2701	4	0.09	0.79	-3.85	-1.55	0.74	1.21	6.84	-7.09	-185.55	-19.66			
2702	1	0.09	0.21	0.88	0.98	0.82	5.48	3.26	-23.13	-194.93	38.01			
2702	2	0.32	0.21	2.43	1.40	0.54	7.30	-5.38	-2.97	-186.49	24.90			
2702	3	0.32	0.79	2.95	1.23	0.63	5.87	-6.60	-11.57	-184.99	20.35			
2702	4	0.09	0.79	1.67	0.91	1.07	5.38	1.86	-15.90	-187.88	21.23			
2703	1	0.13	0.21	-2.12	-0.24	0.60	5.36	1.47	-22.28	-178.27	43.15			
2703	2	0.47	0.21	-0.17	0.45	0.60	7.03	-0.15	-52.26	-193.62	49.29			
2703	3	0.47	0.79	0.45	0.63	0.93	6.43	-1.29	-21.27	-180.72	21.46			
2703	4	0.13	0.79	-1.56	0.06	0.93	6.22	1.44	-32.79	-173.01	21.34			
2704	1	0.18	0.21	-25.49	-4.17	-1.46	3.13	0.62	-20.92	-196.93	34.53			
2704	2	0.67	0.21	-24.95	-3.27	-2.02	2.16	-1.37	-39.41	-194.41	19.18			
2704	3	0.67	0.79	-25.57	-3.41	-0.95	2.64	-2.67	-60.37	-173.74	47.39			
2704	4	0.18	0.79	-26.33	-4.47	-0.94	2.92	-0.47	-39.35	-183.16	51.62			
2705	1	0.21	0.21	-27.14	-2.63	-1.76	1.10	-6.41	19.04	-229.03	31.17			
2705	2	0.78	0.21	-26.38	-2.37	-2.70	2.17	1.92	0.97	-300.72	38.88			
2705	3	0.78	0.79	-27.44	-3.38	-2.33	2.62	1.59	-53.01	-300.21	77.38			
2705	4	0.21	0.79	-27.27	-3.66	-1.62	-0.14	-9.63	34.08	-247.74	37.87			
2706	1	0.21	0.34	1.04	7.10	0.06	1.39	15.14	-99.21	4.01	15.45			
2706	2	0.79	0.34	1.28	7.39	-0.06	1.47	18.93	-101.62	1.51	8.04			
2706	3	0.79	1.28	4.45	22.25	0.12	4.65	14.92	-110.04	2.08	26.44			
2706	4	0.21	1.28	3.39	21.90	0.19	-1.48	15.33	-96.69	7.74	23.03			
2707	1	0.21	0.29	-2.74	-14.00	0.10	0.67	13.24	-79.07	-6.36	12.21			
2707	2	0.79	0.29	-2.63	-13.96	-0.04	0.28	13.22	-80.49	-7.08	10.23			
2707	3	0.79	1.09	-0.76	-2.96	-0.14	-2.16	12.18	-85.83	-3.82	12.14			
2707	4	0.21	1.09	-0.66	-2.77	0.00	-0.21	14.91	-86.59	-2.46	13.29			
2708	1	0.21	0.32	-4.62	-25.12	0.15	0.25	4.96	-70.27	-8.28	7.07			
2708	2	0.79	0.32	-4.68	-25.11	0.10	-0.56	4.93	-72.05	-7.67	6.82			
2708	3	0.79	1.19	-3.71	-20.10	0.02	0.15	6.89	-75.80	-7.56	9.23			
2708	4	0.21	1.19	-3.79	-20.01	0.09	-0.22	6.41	-73.75	-7.55	9.82			
2709	1	0.21	0.28	-4.37	-24.31	0.10	-0.21	-3.08	-68.84	-8.18	2.76			
2709	2	0.79	0.28	-4.47	-24.30	0.10	-0.12	-3.18	-70.57	-8.13	2.56			
2709	3	0.79	1.06	-4.88	-26.23	0.09	-0.51	-1.82	-70.90	-7.92	4.99			
2709	4	0.21	1.06	-4.76	-26.20	0.11	0.27	-1.82	-69.12	-8.11	4.83			
2710	1	0.17	0.12	23.67	-0.66	0.62	-6.66	1.28	-6.23	4.76	5.72			

2710	2	0.62	0.12	18.50	0.69	0.70	-7.73	-0.25	-6.61	-4.92	5.91	2724	4	0.35	0.24	-5.37	-11.47	6.26	3.44	8.48	-213.74	-36.69	39.93
2710	3	0.53	0.45	19.73	0.68	2.07	-8.25	-0.19	-6.73	0.30	5.52	2725	1	0.27	0.16	-3.60	-23.53	11.82	13.61	-5.89	-128.39	16.50	-14.55
2710	4	0.14	0.44	24.29	-0.36	1.86	-7.17	3.85	-5.83	4.48	7.87	2725	2	0.66	0.13	-4.64	-19.01	13.15	17.44	0.55	-156.29	1.67	-10.42
2711	1	0.12	0.12	14.45	1.45	0.65	-8.37	0.77	-4.16	-25.57	4.44	2725	3	0.89	0.47	-8.95	-11.52	11.81	-41.06	17.24	-182.20	-16.57	42.57
2711	2	0.58	0.13	9.63	2.16	0.58	-7.04	-0.67	4.45	-69.64	2.61	2725	4	0.57	0.59	-6.16	-17.52	13.14	-30.02	21.73	-119.90	-12.88	32.82
2711	3	0.37	0.50	11.54	2.04	1.79	-6.68	-1.96	-0.41	-45.32	-4.24	2726	1	0.24	0.10	-4.60	-17.66	12.41	14.54	8.88	-181.48	-10.82	13.61
2711	4	-0.02	0.47	15.96	1.36	2.03	-9.04	1.35	-4.66	-12.09	3.02	2726	2	0.65	0.08	-7.22	-10.39	10.54	3.64	7.39	-220.92	-26.88	21.43
2712	1	0.08	0.14	6.75	2.28	0.50	-6.85	0.59	10.94	-106.02	2.15	2726	3	0.78	0.30	-10.09	-3.24	6.79	-39.67	12.18	-287.82	-23.40	50.32
2712	2	0.53	0.16	3.75	2.20	0.44	-4.86	-1.45	15.69	-154.00	1.75	2726	4	0.44	0.37	-8.06	-8.59	10.03	-41.91	17.01	-217.85	-27.95	64.51
2712	3	0.19	0.59	5.57	2.39	1.10	-4.67	-0.18	15.62	-120.18	-3.77	2727	1	0.20	0.07	-7.48	-7.74	7.20	1.65	12.85	-245.20	-34.01	40.26
2712	4	-0.18	0.53	8.56	2.21	1.47	-7.14	-0.83	7.57	-76.48	-5.17	2727	2	0.62	0.06	-9.17	-4.27	1.97	-2.22	9.92	-255.12	-23.78	25.29
2713	1	0.13	0.12	24.92	0.19	2.13	-6.45	6.32	0.53	3.18	8.69	2727	3	0.64	0.23	-9.80	-0.65	0.43	-8.07	4.68	-301.98	-7.64	9.79
2713	2	0.47	0.12	20.66	1.04	2.33	-9.52	2.61	1.02	3.16	7.51	2727	4	0.29	0.25	-9.40	-3.20	4.90	-30.09	11.47	-303.48	-19.95	54.69
2713	3	0.39	0.45	23.06	1.11	3.32	-15.07	0.47	19.92	2.75	6.49	2728	1	0.20	0.06	-6.45	-10.85	-1.89	1.54	9.66	-194.82	-27.71	37.40
2713	4	0.12	0.44	27.48	0.56	1.76	-22.42	4.99	13.16	1.13	3.81	2728	2	0.75	0.07	-5.24	-15.13	-4.80	-4.97	7.16	-162.04	-39.47	20.99
2714	1	0.10	0.13	17.46	1.20	1.08	-10.74	2.80	-0.20	-3.22	4.66	2728	3	0.65	0.24	-5.88	-11.52	-6.17	-4.08	8.33	-170.57	-21.97	6.21
2714	2	0.43	0.14	13.09	1.58	1.18	-11.02	-0.34	0.46	-21.28	-5.62	2728	4	0.17	0.22	-7.77	-7.57	-2.28	0.49	10.24	-209.30	-21.40	28.66
2714	3	0.27	0.53	15.28	1.37	3.19	-6.97	-1.33	24.25	-2.02	4.87	2729	1	0.15	0.07	-3.76	-19.14	-4.92	-5.35	3.34	-115.82	-70.43	0.24
2714	4	0.00	0.48	20.11	0.99	2.53	-11.54	1.76	24.91	3.40	6.85	2729	2	0.70	0.09	-3.23	-22.76	-3.58	-2.30	5.54	-75.09	-100.83	-48.49
2715	1	0.06	0.16	10.47	1.59	0.43	-10.44	0.20	-3.44	-43.15	-20.67	2729	3	0.46	0.32	-1.99	-21.81	-5.04	-3.53	0.44	-98.97	-72.89	-40.34
2715	2	0.39	0.18	7.20	1.58	0.54	-9.36	-2.83	1.29	-83.99	-33.39	2729	4	-0.01	0.27	-4.00	-17.16	-6.95	-6.06	6.07	-131.41	-50.79	-8.98
2715	3	0.14	0.67	8.89	1.38	2.30	-4.41	-1.48	9.07	-25.03	-15.34	2730	1	0.10	0.10	-3.27	-24.45	-2.21	-3.45	0.09	-137.41	-84.01	-68.88
2715	4	-0.12	0.59	12.66	1.14	2.32	-6.13	-0.32	20.83	-5.48	-2.02	2730	2	0.64	0.12	-3.07	-26.10	-0.62	-0.15	2.39	-134.69	-101.01	-46.68
2716	1	0.16	0.12	-26.71	1.49	0.44	-3.97	-0.68	-3.78	-0.52	-4.88	2730	3	0.24	0.46	-1.66	-24.34	-1.81	1.65	3.47	-102.18	-99.34	-41.48
2716	2	0.61	0.12	-28.69	2.04	0.11	-1.73	-0.82	3.47	-22.70	-3.64	2730	4	-0.21	0.37	-2.37	-24.08	-3.89	1.27	2.39	-95.50	-84.56	-46.60
2716	3	0.52	0.45	-29.36	2.09	0.38	-2.84	-3.41	-2.76	-15.62	-9.90	2731	1	0.16	0.06	-9.32	-4.28	-1.81	1.13	10.00	-223.93	-22.22	30.37
2716	4	0.14	0.44	-27.06	1.27	1.34	-6.11	-2.20	-4.96	-0.39	-7.10	2731	2	0.58	0.07	-7.95	-7.75	-7.10	-2.39	12.76	-176.47	-16.46	4.63
2717	1	0.12	0.12	-28.76	1.76	-0.17	0.14	-0.06	11.30	-47.47	-3.26	2731	3	0.49	0.25	-9.85	-3.21	-4.89	28.42	11.18	-183.53	-8.15	-23.15
2717	2	0.57	0.13	-27.53	0.44	-0.28	0.45	-1.57	25.29	-86.54	-3.29	2731	4	0.14	0.23	-9.92	-0.65	-0.36	5.94	4.83	-262.54	-9.64	11.66
2717	3	0.36	0.50	-28.90	1.64	-2.18	-2.60	1.91	12.16	-68.57	-15.05	2732	1	0.12	0.08	-7.81	-10.49	-10.48	-3.96	7.60	-140.96	-29.44	-2.20
2717	4	-0.01	0.47	-29.53	2.24	-0.69	-3.48	-1.91	2.72	-35.76	-11.97	2732	2	0.53	0.10	-5.18	-17.91	-12.36	-14.89	9.38	-115.59	-43.34	-30.30
2718	1	0.08	0.14	-26.42	-0.37	-0.27	1.47	-0.70	34.13	-109.70	-1.85	2732	3	0.33	0.37	-8.62	-8.68	-10.15	41.26	16.91	-105.58	-24.99	-35.26
2718	2	0.52	0.16	-25.18	-1.61	-0.39	0.09	2.16	40.28	-130.84	-1.44	2732	4	-0.01	0.30	-10.64	-3.24	-6.81	38.31	12.03	-148.81	-7.92	-17.17
2718	3	0.19	0.58	-26.05	-1.83	-2.81	-8.05	-3.88	29.65	-119.95	-10.31	2733	1	0.07	0.13	-5.12	-19.45	-13.09	-17.50	0.96	-109.51	-52.19	-39.28
2718	4	-0.18	0.53	-27.29	0.58	-2.59	-7.08	-0.29	19.94	-94.57	-14.58	2733	2	0.46	0.16	-3.93	-24.24	-11.75	-13.69	-5.63	-109.64	-66.35	-42.43
2719	1	0.13	0.12	-27.25	0.08	3.88	-3.09	-5.76	-2.43	1.22	-6.67	2733	3	0.16	0.59	-6.55	-17.91	-13.35	29.90	22.21	-84.63	-45.22	-50.12
2719	2	0.46	0.12	-29.66	1.46	3.27	2.51	-6.81	-4.40	-8.94	-9.80	2733	4	-0.16	0.47	-9.47	-11.69	-11.94	40.66	17.40	-101.23	-23.75	-38.89
2719	3	0.39	0.45	-31.72	0.13	0.41	-34.81	-9.46	0.91	-2.64	-3.93	2734	1	0.29	0.16	-26.01	-1.93	-0.29	-0.35	2.18	-95.33	-135.14	39.44
2719	4	0.12	0.44	-29.55	-0.50	2.57	-28.65	-4.47	7.99	1.02	-2.94	2734	2	0.74	0.14	-27.37	-0.56	-0.27	-1.44	-0.91	-112.42	-101.98	22.08
2720	1	0.10	0.13	-30.12	1.70	4.95	8.05	-5.32	-9.14	-19.30	-16.62	2734	3	1.00	0.53	-28.20	0.38	2.28	7.38	-0.17	-113.85	-65.70	31.19
2720	2	0.43	0.14	-30.03	2.88	3.82	12.35	-3.94	-6.90	-45.40	-27.90	2734	4	0.63	0.58	-26.82	-2.19	2.40	8.40	-3.88	-107.16	-91.17	38.96
2720	3	0.27	0.53	-31.87	0.90	-1.10	-40.20	-12.73	-17.12	-16.35	-16.88	2735	1	0.25	0.13	-28.59	0.35	-0.17	-0.72	-1.36	-130.82	-81.22	16.69
2720	4	0.00	0.48	-32.12	0.41	1.17	-39.13	-10.44	-5.16	-3.11	-6.86	2735	2	0.69	0.12	-30.00	1.80	-0.17	-0.14	0.07	-144.20	21.71	8.28
2721	1	0.06	0.16	-28.92	2.49	4.92	18.67	-0.19	-8.82	-63.93	-41.25	2735	3	0.83	0.47	-30.74	2.30	0.52	3.64	-1.82	-125.56	-11.33	31.55
2721	2	0.39	0.18	-27.25	2.67	3.33	16.68	8.69	-3.10	-96.89	-47.38	2735	4	0.45	0.50	-29.95	1.55	1.94	2.67	2.09	-120.60	-51.12	20.42
2721	3	0.14	0.66	-29.14	2.14	-2.22	-33.83	-17.92	-45.07	-49.61	-47.04	2736	1	0.20	0.12	-30.03	2.18	-0.37	1.71	-0.58	-89.38	-14.56	79.57
2721	4	-0.11	0.59	-31.14	1.84	-0.02	-40.36	-13.76	-30.92	-24.42	-27.41	2736	2	0.65	0.12	-28.12	1.80	-0.61	4.28	-0.48	-123.66	-32.27	30.27
2722	1	0.36	0.12	-2.63	-25.38	1.31	0.26	2.16	-136.35	38.73	1.52	2736	3	0.68	0.44	-28.41	1.55	-1.41	6.48	-2.22	-113.75	-29.17	40.95
2722	2	0.90	0.10	-2.60	-23.89	2.71	3.13	-0.28	-144.28	26.97	5.34	2736	4	0.29	0.45	-30.67	2.25	-0.51	2.96	-3.37	-119.78	-13.28	46.51
2722	3	1.21	0.37	-1.77	-23.57	4.12	-1.60	2.11	-148.49	14.86	16.48	2737	1	0.22	0.18	-27.89	2.31	-3.62	-16.92	9.06	-116.03	-58.36	29.70
2722	4	0.76	0.46	-1.20	-23.69	2.23	-1.88	3.37	-135.08	25.24	13.32	2737	2	0.54	0.16	-29.75	2.29	-5.23	-19.35	0.06	-120.11	-46.62	18.23
2723	1	0.30	0.09	-2.47	-22.30	3.90	1.86	5.10	-155.10	13.56	8.86	2737	3	0.72	0.59	-32.06	1.79	0.01	41.18	-13.87	-127.14	-18.91	27.61
2723	2	0.85	0.07	-3.08	-18.87	5.05	4.70	3.02	-172.15	-12.44	17.06	2737	4	0.46	0.66	-29.85	1.99	2.28	34.38	-17.87	-107.86	-33.08	39.31
2723	3	1.01	0.27	-3.40	-16.98	6.98	5.37	5.70	-191.64	-26.02	32.40	2738	1	0.19	0.14	-31.03	2.82	-4.09	-12.73	-3.76	-123.64	-24.06	13.31
2723	4	0.54	0.32	-1.36	-21.44	5.14	3.18	0.05	-165.75	-1.55	21.84	2738	2	0.52	0.13	-31.29	1.73	-5.21	-8.51	-5.37	-131.08	-16.84	28.91
2724	1	0.25	0.07	-4.71	-15.01	4.91	4.33	6.91	-191.81	-31.17	29.36	2738	3	0.62	0.48	-33.34	0.43	-1.21	40.12	-10.70	-143.14	-8.41	22.48
2724	2	0.80	0.06	-6.26	-10.83	2.07	-2.75	9.54	-200.75	-33.87	39.16	2738	4	0.35	0.53	-32.93	0.90	1.12	41.11	-12.91	-135.54	-14.94	34.31
2724	3	0.83	0.22	-7.59	-7.57	2.43	-1.50	9.94	-227.21	-36.15	40.60	2739	1	0.16	0.12	-30.92	1.56	-3.42	-2.65	-6.97	-127.63	-13.23	31.86

2739	2	0.50	0.12	-28.53	0.26	-3.94	3.34	-6.08	-103.78	-13.93	39.12	2753	4	-0.01	0.28	0.07	-0.75	-0.58	-3.80	-2.34	-218.42	2.91	3.45
2739	3	0.51	0.44	-30.87	-0.47	-2.57	29.04	-4.80	-117.88	-5.56	15.40	2754	1	0.10	0.10	-1.71	-2.15	-0.55	-2.33	-4.44	-180.61	19.75	3.46
2739	4	0.23	0.45	-33.03	0.14	-0.39	35.57	-9.76	-134.13	-12.96	27.40	2754	2	0.64	0.13	-2.06	-2.86	-0.53	-0.40	-5.14	-171.88	17.25	1.98
2740	1	0.17	0.12	-25.07	1.11	-0.73	7.14	-1.02	-118.38	-25.61	41.86	2754	3	0.23	0.47	-2.05	-4.04	-0.85	-1.76	-4.75	-143.62	16.25	-5.25
2740	2	0.62	0.12	-19.75	-0.02	-0.65	8.62	0.77	-109.13	-50.83	27.95	2754	4	-0.21	0.38	-1.65	-2.96	-0.90	-2.87	-4.47	-161.90	22.29	-2.85
2740	3	0.53	0.45	-20.88	-0.08	-1.94	9.10	0.38	-98.84	-32.11	22.28	2755	1	0.16	0.06	1.90	0.23	-0.50	-1.08	-0.59	-320.31	-31.16	14.22
2740	4	0.14	0.44	-25.60	0.76	-1.86	7.74	-3.82	-107.58	-14.36	37.89	2755	2	0.58	0.07	1.01	-0.15	-0.54	-2.76	-1.39	-271.35	-18.42	-2.81
2741	1	0.12	0.12	-15.55	-0.60	-0.44	9.13	-0.25	-94.18	-69.89	16.14	2755	3	0.49	0.26	1.05	-0.19	-0.20	0.40	-0.43	-314.19	-12.53	-42.58
2741	2	0.58	0.13	-10.46	-1.02	-0.07	8.47	1.58	-74.11	-106.19	5.62	2755	4	0.14	0.24	2.07	0.09	-0.22	1.70	0.10	-387.34	-13.82	3.59
2741	3	0.37	0.50	-12.23	-1.03	-1.34	7.63	2.60	-66.84	-80.60	-10.03	2756	1	0.12	0.08	-0.08	-0.46	-0.86	-4.15	-1.49	-221.52	-11.03	18.96
2741	4	-0.02	0.47	-16.92	-0.58	-1.78	9.86	-0.88	-85.07	-46.74	6.21	2756	2	0.53	0.10	-1.21	-1.72	-1.37	-5.49	-2.36	-173.06	12.16	17.20
2742	1	0.08	0.14	-7.36	-0.94	0.23	7.59	-0.11	-57.99	-130.38	5.37	2756	3	0.32	0.38	-1.42	-1.01	-1.15	-1.14	-1.51	-160.65	-8.24	-31.41
2742	2	0.53	0.16	-3.94	-0.55	0.60	7.01	2.36	-35.21	-160.71	5.92	2756	4	-0.01	0.31	0.06	-0.09	-0.43	-0.75	0.00	-260.44	-13.88	-26.90
2742	3	0.19	0.59	-5.72	-1.02	-0.14	5.29	0.78	-30.02	-143.26	-11.55	2757	1	0.07	0.13	-2.16	-2.52	-1.78	-5.99	-3.82	-146.02	13.36	30.82
2742	4	-0.18	0.53	-9.01	-1.02	-0.80	7.72	1.47	-50.51	-110.24	-13.74	2757	2	0.46	0.16	-2.95	-4.44	-2.22	-5.24	-6.09	-114.73	17.66	23.33
2743	1	0.13	0.12	-26.13	0.06	-1.98	7.19	-6.72	-102.61	-21.42	32.09	2757	3	0.16	0.60	-3.84	-3.73	-3.29	-3.58	-2.41	-58.15	9.24	-0.39
2743	2	0.47	0.12	-21.69	-0.60	-2.02	10.80	-2.75	-87.37	-14.75	21.35	2757	4	-0.16	0.48	-2.65	-1.61	-1.85	-2.35	-1.18	-112.29	4.32	-9.90
2743	3	0.39	0.45	-24.05	-0.98	-3.16	14.52	-0.82	-61.10	-2.75	3.04	2758	1	0.13	0.21	-1.15	0.00	1.01	5.98	1.06	-27.52	-177.28	12.15
2743	4	0.12	0.44	-28.72	-0.52	-1.67	22.38	-5.39	-89.23	-5.11	16.32	2758	2	0.47	0.21	0.79	0.42	1.02	5.56	-1.47	-7.97	-184.03	12.20
2744	1	0.10	0.13	-18.25	-0.66	-0.50	12.56	-2.84	-79.15	-27.30	8.96	2758	3	0.47	0.79	1.26	0.50	1.07	4.83	-1.07	-6.31	-190.18	6.91
2744	2	0.43	0.14	-13.54	-0.77	-0.37	12.88	0.78	-65.39	-48.68	-14.48	2758	4	0.13	0.79	-0.48	0.10	1.08	5.58	1.56	-8.22	-187.90	0.60
2744	3	0.27	0.53	-15.55	-0.98	-2.69	6.05	1.04	-33.26	-14.11	-11.20	2759	1	0.09	0.21	1.93	0.81	1.12	5.28	1.74	-9.02	-185.24	13.09
2744	4	0.00	0.48	-20.80	-0.79	-2.21	10.66	-2.19	-43.98	-3.33	2.28	2759	2	0.32	0.21	3.03	1.01	0.62	4.61	-6.84	-10.16	-184.96	15.66
2745	1	0.06	0.16	-10.54	-0.78	0.58	12.88	0.36	-60.80	-70.80	-33.12	2759	3	0.32	0.79	3.14	0.83	0.64	3.87	-6.36	-5.56	-187.44	11.90
2745	2	0.39	0.18	-6.88	-0.63	0.62	11.17	3.46	-47.44	-110.24	-48.36	2759	4	0.09	0.79	2.21	0.60	1.16	4.16	2.10	-5.70	-188.09	9.69
2745	3	0.14	0.67	-8.35	-0.67	-1.40	3.86	1.55	-43.06	-47.79	-42.09	2760	1	0.09	0.21	-3.87	-1.32	0.71	0.73	6.64	-6.92	-185.83	-15.98
2745	4	-0.12	0.59	-12.51	-0.65	-1.63	5.21	0.17	-36.22	-20.46	-21.20	2760	2	0.33	0.21	-3.54	-1.18	0.68	1.54	-5.44	-7.42	-184.70	-14.74
2746	1	0.36	0.13	-0.32	-2.63	-0.72	0.81	-6.71	-169.02	-24.16	-2.93	2760	3	0.33	0.79	-3.56	-1.03	0.71	1.09	-6.04	-5.83	-187.23	-12.91
2746	2	0.90	0.10	-0.13	-1.56	-0.75	2.04	-5.63	-184.48	-8.71	6.92	2760	4	0.09	0.79	-3.78	-1.04	0.72	0.93	6.20	-5.36	-186.94	-13.52
2746	3	1.21	0.38	-0.19	-2.53	-0.34	2.96	-5.44	-182.12	-4.17	20.16	2761	1	0.09	0.21	3.78	1.18	0.76	-1.55	5.68	-4.79	-187.76	15.74
2746	4	0.77	0.47	-0.54	-3.86	-0.32	2.09	-6.01	-163.23	-20.82	17.14	2761	2	0.35	0.21	3.36	1.13	0.74	-1.84	-6.48	-3.97	-192.56	15.70
2747	1	0.30	0.09	0.35	-0.75	-0.78	2.12	-4.61	-199.61	-2.73	7.38	2761	3	0.35	0.79	3.22	0.93	0.72	-1.72	-6.03	-3.46	-191.11	13.61
2747	2	0.85	0.08	1.15	0.20	-0.79	2.41	-3.27	-223.62	-12.97	7.03	2761	4	0.09	0.79	3.68	1.05	0.72	-1.84	5.59	-4.34	-187.95	13.92
2747	3	1.01	0.28	1.28	-0.14	-0.61	3.25	-2.12	-238.43	-18.93	20.97	2762	1	0.09	0.21	-2.42	-0.57	1.14	-1.84	2.41	-1.58	-201.27	-13.46
2747	4	0.54	0.33	0.50	-1.35	-0.49	3.18	-4.70	-206.62	-7.16	21.53	2762	2	0.33	0.21	-3.02	-0.76	0.68	-2.64	-6.28	-1.87	-196.02	-14.89
2748	1	0.25	0.07	1.80	0.65	-0.78	1.49	-2.20	-245.89	-27.67	9.74	2762	3	0.33	0.79	-2.82	-0.73	0.59	-2.89	-5.39	-1.67	-194.43	-13.65
2748	2	0.80	0.06	2.16	0.83	-0.64	-0.21	-1.77	-264.91	-40.86	14.49	2762	4	0.09	0.79	-2.21	-0.59	0.96	-2.43	2.93	-1.14	-200.75	-13.28
2748	3	0.83	0.24	2.21	0.52	-0.66	-0.14	-1.13	-297.03	-39.29	20.09	2763	1	0.23	0.21	1.64	0.35	1.23	-2.52	1.08	-1.68	-209.01	10.98
2748	4	0.35	0.25	1.86	0.40	-0.67	1.72	-1.76	-269.69	-34.22	23.14	2763	2	0.86	0.21	0.63	-0.02	1.04	-2.32	-3.04	-2.94	-222.34	8.41
2749	1	0.27	0.16	-1.16	-4.80	1.67	6.45	-6.77	-153.76	-7.13	-6.96	2763	3	0.86	0.79	0.46	-0.12	1.01	-1.71	-0.23	-0.77	-213.32	8.50
2749	2	0.66	0.13	-0.26	-2.58	1.03	6.60	-3.85	-185.28	-3.73	-13.23	2763	4	0.23	0.79	1.41	0.24	1.08	-2.36	1.36	-0.40	-206.43	11.48
2749	3	0.89	0.48	-0.69	-1.40	1.10	2.62	-0.84	-179.67	-9.58	35.62	2764	1	0.30	0.17	0.29	0.09	0.85	1.30	1.84	-5.35	-226.78	6.17
2749	4	0.57	0.60	-2.17	-3.70	2.66	3.56	-1.98	-115.13	-11.10	28.02	2764	2	1.10	0.05	-0.17	0.28	0.89	-2.17	-0.52	-11.02	-221.23	-4.10
2750	1	0.24	0.10	0.49	-1.43	0.36	5.42	-1.99	-211.33	-6.68	4.55	2764	3	1.10	0.63	-0.16	-0.14	0.75	-0.62	-2.29	-5.56	-241.17	7.52
2750	2	0.65	0.08	1.41	-0.13	-0.21	3.06	-1.16	-258.98	-24.70	4.32	2764	4	0.30	0.75	0.10	-0.09	1.03	0.06	-0.51	-3.39	-225.34	7.12
2750	3	0.78	0.31	1.69	0.21	-0.32	2.74	-0.09	-320.65	-22.22	45.66	2765	1	0.18	0.21	-26.47	-4.89	-0.42	3.87	-0.02	-91.48	-182.44	88.45
2750	4	0.44	0.38	0.42	-0.61	0.26	2.05	-1.34	-225.43	-23.99	58.85	2765	2	0.67	0.21	-25.60	-3.71	-0.15	3.00	1.14	-93.78	-150.33	59.52
2751	1	0.20	0.07	2.00	0.26	-0.59	1.82	-0.71	-299.59	-31.73	26.11	2765	3	0.67	0.79	-24.95	-4.07	1.15	3.21	0.46	-137.81	-146.86	19.67
2751	2	0.62	0.06	2.30	0.26	-0.58	-0.06	-0.72	-331.95	-32.30	6.73	2765	4	0.18	0.79	-25.91	-5.44	0.30	5.50	-0.19	-165.79	-117.06	56.42
2751	3	0.63	0.24	2.43	0.09	-0.30	2.24	-0.30	-400.03	-12.21	3.94	2766	1	0.21	0.21	-27.86	-5.72	-1.70	0.49	-11.65	5.04	-294.54	69.05
2751	4	0.29	0.26	2.21	0.02	-0.47	2.82	-0.45	-359.41	-19.13	56.75	2766	2	0.78	0.21	-27.21	-5.36	-1.87	2.97	-1.80	-50.02	-292.06	109.91
2752	1	0.20	0.06	1.87	0.66	-0.42	-1.64	-1.62	-261.59	-35.19	15.88	2766	3	0.78	0.79	-26.25	-8.28	-0.56	4.45	-1.31	-166.15	-210.36	104.29
2752	2	0.75	0.07	0.85	0.15	-0.35	-2.78	-2.69	-238.20	-9.66	16.73	2766	4	0.21	0.79	-30.30	-9.95	-0.60	10.54	-10.40	-282.12	-416.26	227.97
2752	3	0.65	0.25	1.00	-0.09	-0.45	-2.61	-2.30	-253.33	-16.93	2.52	2767	1	0.21	0.34	1.45	7.13	-0.50	-1.15	14.21	-92.90	-5.76	6.41
2752	4	0.17	0.24	1.90	0.32	-0.44	-1.34	-1.02	-290.22	-34.31	6.64	2767	2	0.79	0.34	2.24	6.17	-0.82	-1.13	12.42	-94.55	-10.82	8.94
2753	1	0.15	0.08	-0.09	-0.47	-0.41	-3.26	-2.90	-215.75	7.14	14.80	2767	3	0.79	1.28	6.44	24.20	-0.65	24.91	23.20	-162.15	9.02	17.10
2753	2	0.70	0.09	-1.15	-1.44	-0.50	-2.46	-3.82	-193.21	19.57	7.83	2767	4	0.21	1.28	2.57	22.35	-0.41	-7.35	14.01	-120.29	-0.92	20.72
2753	3	0.46	0.33	-0.91	-1.87	-0.74	-3.01	-4.55	-187.07	17.28	-2.08	2768	1	0.21	0.29	-2.37	-13.95	-0.09	0.35	14.42	-80.41	-5.94	9.36

2768	2	0.79	0.29	-2.29	-14.14	0.01	-0.96	13.42	-80.82	-4.71	8.96
2768	3	0.79	1.09	0.28	-2.43	0.02	-2.21	18.63	-84.73	-3.92	7.69
2768	4	0.21	1.09	0.16	-2.72	-0.04	5.34	15.23	-96.04	-5.77	12.57
2769	1	0.21	0.32	-4.72	-25.16	0.07	0.33	5.12	-73.26	-7.36	6.69
2769	2	0.79	0.32	-4.76	-25.21	0.07	-0.55	5.15	-74.87	-5.99	6.62
2769	3	0.79	1.19	-3.62	-20.12	0.12	0.36	6.38	-79.17	-5.35	9.12
2769	4	0.21	1.19	-3.72	-20.16	0.02	-0.17	6.15	-75.40	-6.91	8.82
2770	1	0.21	0.28	-4.54	-24.31	0.09	-0.14	-3.15	-71.85	-7.49	2.44
2770	2	0.79	0.28	-4.61	-24.31	0.07	-0.10	-3.18	-73.83	-6.13	2.29
2770	3	0.79	1.06	-4.99	-26.24	0.11	-0.41	-1.75	-73.68	-6.01	4.64
2770	4	0.21	1.06	-4.92	-26.24	0.10	0.21	-1.80	-72.56	-7.37	5.00
2771	1	0.30	0.21	-0.11	-0.42	1.00	-2.21	1.97	-0.51	-221.98	7.64
2771	2	1.10	0.21	-0.24	-0.53	0.72	1.64	-2.75	-1.76	-235.84	5.03
2771	3	1.10	0.79	-0.15	-0.77	0.80	-0.20	-2.23	-0.79	-229.65	3.82
2771	4	0.30	0.79	-0.10	-0.57	0.83	-0.72	1.72	0.00	-219.47	9.73
2772	1	0.23	0.21	1.36	0.30	0.99	-2.03	1.50	0.17	-204.58	11.47
2772	2	0.86	0.21	0.47	-0.08	0.88	-0.33	-3.01	-1.13	-216.44	11.26
2772	3	0.86	0.79	0.36	-0.20	0.69	-1.41	-2.22	1.46	-215.24	11.19
2772	4	0.23	0.79	1.15	0.17	0.83	-1.92	1.15	1.91	-204.72	11.76
2773	1	0.09	0.21	-1.95	-0.50	0.89	-2.72	2.31	-0.03	-198.42	-11.62
2773	2	0.33	0.21	-2.55	-0.65	0.56	-2.84	-5.14	-0.96	-193.69	-12.20
2773	3	0.33	0.79	-2.22	-0.64	0.49	-2.79	-4.35	0.57	-193.50	-10.69
2773	4	0.09	0.79	-1.67	-0.48	0.72	-2.09	2.71	1.16	-198.91	-11.18
2774	1	0.09	0.21	3.54	1.02	0.73	-2.20	5.88	-3.98	-187.89	12.84
2774	2	0.35	0.21	3.02	0.96	0.71	-2.07	-5.87	-2.96	-190.96	12.74
2774	3	0.35	0.79	2.66	1.00	0.64	-2.69	-4.88	-1.43	-190.41	10.45
2774	4	0.09	0.79	3.35	1.17	0.65	-3.02	5.42	-2.97	-187.01	10.70
2775	1	0.09	0.21	-3.71	-1.10	0.74	0.41	5.80	-4.84	-187.21	-13.13
2775	2	0.33	0.21	-3.60	-1.04	0.72	0.47	-6.73	-5.72	-188.47	-13.02
2775	3	0.33	0.79	-3.79	-1.46	0.66	-0.69	-6.56	-7.00	-188.57	-11.48
2775	4	0.09	0.79	-3.64	-1.42	0.67	-0.71	4.74	-5.09	-186.61	-11.00
2776	1	0.09	0.21	2.47	0.88	1.15	3.53	2.74	-5.15	-194.22	11.08
2776	2	0.32	0.21	3.28	0.99	0.65	3.25	-5.77	-3.98	-190.15	12.31
2776	3	0.32	0.79	3.59	1.47	0.57	2.59	-4.49	-7.55	-191.95	11.43
2776	4	0.09	0.79	2.85	1.32	1.01	2.99	2.94	-9.10	-199.08	10.46
2777	1	0.13	0.21	0.08	0.40	1.07	4.57	2.51	-1.72	-198.35	-0.69
2777	2	0.47	0.21	1.63	0.65	1.07	4.22	-0.42	-4.94	-197.34	7.97
2777	3	0.47	0.79	2.11	1.36	0.95	3.45	0.01	-9.01	-206.42	9.00
2777	4	0.13	0.79	0.82	1.17	1.02	3.50	2.39	-10.39	-216.86	0.35
2778	1	0.18	0.21	-24.78	-5.54	0.83	4.85	2.81	-168.94	-99.75	17.07
2778	2	0.67	0.21	-23.40	-4.24	2.25	3.68	5.18	-122.62	-82.34	9.70
2778	3	0.67	0.79	-20.27	-4.16	3.19	3.61	4.22	-87.11	-126.33	-15.63
2778	4	0.18	0.79	-22.68	-5.14	1.40	6.28	2.15	-115.49	-145.78	-43.77
2779	1	0.21	0.21	-31.52	-12.31	0.50	18.90	2.85	-411.02	-366.13	9.24
2779	2	0.78	0.21	-26.50	-9.17	0.90	7.53	-1.29	-278.81	-164.62	26.75
2779	3	0.78	0.79	-25.39	-7.64	1.87	6.76	4.55	-158.22	-187.54	-82.03
2779	4	0.21	0.79	-28.72	-8.83	0.86	8.91	14.58	-177.10	-239.94	-91.29
2780	1	0.21	0.34	3.01	6.31	0.14	1.80	18.43	-96.51	-3.49	9.73
2780	2	0.79	0.34	2.49	7.17	0.97	1.38	18.25	-89.72	5.99	8.20
2780	3	0.79	1.28	5.23	23.23	0.69	-9.80	18.80	-105.50	8.00	-27.44
2780	4	0.21	1.28	9.88	25.01	0.38	-10.25	30.81	-148.23	18.14	-10.42
2781	1	0.21	0.29	-2.43	-14.31	0.10	-0.30	13.07	-80.87	-3.92	9.38
2781	2	0.79	0.29	-2.54	-14.15	0.29	0.02	14.41	-81.41	-0.43	9.30
2781	3	0.79	1.09	0.19	-3.04	0.24	-3.66	12.99	-92.19	0.62	7.08
2781	4	0.21	1.09	-0.16	-2.70	-0.04	1.69	14.02	-85.54	-3.30	9.38
2782	1	0.21	0.32	-4.79	-25.19	0.12	0.19	5.01	-76.10	-4.38	6.41
2782	2	0.79	0.32	-4.88	-25.17	0.16	-0.58	4.81	-77.49	-1.86	6.05
2782	3	0.79	1.19	-3.96	-20.22	0.13	0.07	6.65	-78.67	-1.12	7.65
2782	4	0.21	1.19	-3.67	-20.11	0.16	-0.38	7.29	-79.41	-3.52	7.85
2783	1	0.21	0.28	-4.65	-24.32	0.08	-0.16	-3.14	-75.17	-4.77	2.31
2783	2	0.79	0.28	-4.73	-24.32	0.10	-0.06	-3.13	-76.93	-2.56	2.12
2783	3	0.79	1.06	-5.09	-26.24	0.10	-0.56	-1.70	-77.16	-2.24	4.39
2783	4	0.21	1.06	-5.05	-26.25	0.11	0.42	-1.85	-75.07	-4.64	4.80
2784	1	0.30	0.21	-0.03	-0.59	0.70	-0.39	0.98	0.80	-218.31	11.11
2784	2	1.10	0.21	-0.08	-0.86	0.61	-0.03	-1.66	0.20	-224.59	3.61
2784	3	1.10	0.79	-0.08	-0.90	0.49	-0.08	-1.17	0.31	-217.33	4.24
2784	4	0.30	0.79	-0.01	-0.64	0.52	-0.65	1.16	1.42	-215.16	11.99
2785	1	0.23	0.21	1.03	0.09	0.65	-1.50	1.11	2.73	-205.26	11.83
2785	2	0.86	0.21	0.30	-0.32	0.59	-1.65	-1.28	2.51	-213.71	12.02
2785	3	0.86	0.79	0.33	-0.38	0.42	-1.17	-1.28	2.32	-213.31	13.72
2785	4	0.23	0.79	0.99	0.02	0.38	-1.65	1.13	3.35	-208.06	12.29
2786	1	0.09	0.21	-1.44	-0.41	0.51	-2.40	2.38	2.86	-199.97	-10.39
2786	2	0.33	0.21	-1.95	-0.55	0.37	-2.75	-3.29	2.41	-194.41	-9.49
2786	3	0.33	0.79	-1.84	-0.55	0.17	-2.62	-1.67	2.82	-198.84	-7.64
2786	4	0.09	0.79	-1.39	-0.37	0.19	-2.08	1.51	3.33	-203.62	-10.24
2787	1	0.09	0.21	3.21	1.32	0.50	-3.58	4.20	-2.11	-186.68	7.84
2787	2	0.35	0.21	2.46	1.19	0.48	-3.40	-3.85	-0.39	-191.32	8.65
2787	3	0.35	0.79	2.30	1.14	0.16	-3.51	-1.89	0.35	-195.86	5.73
2787	4	0.09	0.79	3.11	1.38	0.19	-3.97	1.35	-1.86	-190.92	2.42
2788	1	0.09	0.21	-3.64	-1.79	0.52	-1.73	3.59	-6.05	-186.00	-7.54
2788	2	0.33	0.21	-3.93	-1.83	0.50	-1.98	-5.22	-8.90	-187.87	-7.30
2788	3	0.33	0.79	-3.97	-2.06	0.20	-2.64	-1.69	-10.67	-191.23	2.66
2788	4	0.09	0.79	-3.54	-1.95	0.20	-2.09	1.86	-6.22	-189.88	-0.43
2789	1	0.09	0.21	3.15	1.90	0.81	2.58	2.33	-15.47	-202.26	6.40
2789	2	0.32	0.21	3.84	1.96	0.45	2.59	-3.49	-12.21	-191.98	7.36
2789	3	0.32	0.79	3.89	2.20	0.22	2.56	-2.29	-15.12	-195.00	-4.15
2789	4	0.09	0.79	3.18	2.09	0.41	2.36	0.48	-21.57	-205.24	-6.22
2790	1	0.13	0.21	1.20	1.79	0.88	2.79	1.68	-25.08	-229.99	-1.25
2790	2	0.47	0.21	2.37	1.84	0.78	3.29	-0.15	-20.02	-210.63	4.98
2790	3	0.47	0.79	2.45	2.18	0.48	3.15	-1.03	-27.84	-216.28	-8.87
2790	4	0.13	0.79	1.30	2.14	0.64	2.31	0.07	-36.93	-243.45	-10.64
2791	1	0.18	0.21	-20.87	-4.56	1.31	4.82	1.88	-60.88	-146.85	-58.66
2791	2	0.67	0.21	-17.61	-4.78	3.11	7.28	4.93	-50.19	-153.66	-31.42
2791	3	0.67	0.79	-14.50	-5.56	1.12	7.47	2.96	-30.46	-178.43	-44.49
2791	4	0.18	0.79	-19.45	-4.30	0.28	5.35	3.24	-21.80	-152.91	-51.52
2792	1	0.21	0.21	-25.93	-4.26	1.07	-1.83	9.37	-12.28	-179.19	-29.68
2792	2	0.78	0.21	-23.23	-5.38	1.39	4.88	4.05	-42.71	-244.41	-89.44
2792	3	0.78	0.79	-22.11	-3.43	0.02	4.46	-0.46	2.83	-239.11	-43.88
2792	4	0.21	0.79	-25.78	-2.95	0.22	1.25	-0.70	25.10	-149.32	-16.40
2793	1	0.21	0.34	1.33	7.21	0.76	-2.47	16.24	-92.87	8.71	5.36
2793	2	0.79	0.34	0.77	7.11	0.38	-1.13	14.96	-86.63	12.57	-0.33
2793	3	0.79	1.28	3.12	21.69	0.10	0.60	14.41	-62.64	10.07	-10.63
2793	4	0.21	1.28	3.63	22.32	0.23	-3.40	10.53	-75.81	6.77	-23.10
2794	1	0.21	0.29	-2.68	-14.00	0.36	0.61	13.29	-82.73	2.41	8.27
2794	2	0.79	0.29	-2.94	-14.12	0.25	-0.74	13.00	-82.44	6.22	6.03
2794	3	0.79	1.09	-0.90	-2.90	0.30	0.71	15.36	-80.87	9.00	4.93
2794	4	0.21	1.09	-0.44	-3.07	0.38	-0.06	16.01	-83.52	5.71	5.50
2795	1	0.21	0.32	-4.97	-25.17	0.15	0.57	5.08	-78.56	0.36	5.66
2795	2	0.79	0.32	-5.05	-25.16	0.14	-0.29	5.19	-79.75	3.01	4.92
2795	3	0.79	1.19	-4.00	-20.07	0.23	-0.84	6.46	-80.66	4.54	6.20
2795	4	0.21	1.19	-3.90	-20.19	0.18	-0.41	6.35	-79.89	1.12	7.29
2796	1	0.21	0.28	-4.79	-24.31	0.11	-0.09	-3.26	-78.26	-0.77	1.98
2796	2	0.79	0.28	-4.88	-24.29	0.09	-0.07	-3.17	-79.85	1.85	1.79
2796	3	0.79	1.06	-5.27	-26.23	0.12	-0.44	-1.88	-79.46	2.36	3.72
2796	4	0.21	1.06	-5.19	-26.24	0.10	0.02	-1.76	-78.08	-0.29	4.12
2797	1	0.30	0.21	0.03	-0.62	0.40	-0.75	1.01	0.89	-212.72	12.70

2797	2	1.10	0.21	-0.06	-0.85	0.38	-0.03	-0.81	0.10	-211.52	4.75
2797	3	1.10	0.79	-0.06	-0.71	0.29	-0.04	-0.36	-0.01	-203.22	4.89
2797	4	0.30	0.79	0.10	-0.50	0.27	-0.62	1.09	-0.52	-209.07	13.14
2798	1	0.23	0.21	1.09	0.00	0.19	-1.74	1.27	2.46	-210.54	-12.76
2798	2	0.86	0.21	0.39	-0.37	0.32	-1.09	-0.72	1.55	-212.92	14.68
2798	3	0.86	0.79	0.50	-0.30	0.20	-1.39	-0.56	-0.58	-212.57	15.13
2798	4	0.23	0.79	1.39	0.01	0.00	-1.75	1.34	-0.71	-214.61	13.20
2799	1	0.09	0.21	-1.52	-0.32	-0.07	-1.93	1.31	2.31	-208.14	-10.00
2799	2	0.33	0.21	-1.95	-0.42	0.00	-2.53	-0.19	1.97	-204.56	-6.82
2799	3	0.33	0.79	-2.39	-0.42	-0.15	-2.33	0.99	-0.80	-214.86	-5.98
2799	4	0.09	0.79	-1.89	-0.23	-0.33	-2.14	0.62	-0.80	-215.01	-10.01
2800	1	0.09	0.21	3.07	1.17	-0.07	-3.47	-1.09	-2.14	-198.35	-1.52
2800	2	0.35	0.21	2.39	1.09	-0.09	-2.97	-0.17	-0.24	-202.31	3.50
2800	3	0.35	0.79	2.70	0.61	-0.34	-1.77	1.27	-2.46	-214.76	1.85
2800	4	0.09	0.79	3.09	0.79	-0.31	-1.86	-3.22	-2.93	-213.14	-4.82
2801	1	0.09	0.21	-3.43	-1.75	-0.07	-1.60	0.41	-5.76	-197.47	5.92
2801	2	0.33	0.21	-3.74	-1.78	-0.08	-2.11	1.48	-9.72	-198.39	11.02
2801	3	0.33	0.79	-3.17	-1.04	-0.31	-0.19	4.16	-5.65	-213.03	17.47
2801	4	0.09	0.79	-3.23	-1.01	-0.31	0.00	-0.91	-4.66	-212.80	10.37
2802	1	0.09	0.21	2.95	1.87	0.13	2.39	-1.36	-18.98	-209.88	-18.97
2802	2	0.32	0.21	3.64	1.97	0.03	2.55	-1.60	-13.16	-201.40	-15.08
2802	3	0.32	0.79	2.94	1.12	-0.14	2.55	-0.74	-6.46	-214.38	-22.35
2802	4	0.09	0.79	2.29	1.02	-0.16	2.48	-2.75	-7.55	-218.96	-26.74
2803	1	0.13	0.21	1.13	1.85	0.39	2.39	-1.63	-31.52	-243.14	-20.90
2803	2	0.47	0.21	2.22	1.88	0.23	3.05	-1.82	-23.86	-219.50	-20.37
2803	3	0.47	0.79	1.64	0.99	0.02	2.97	-2.46	-9.00	-221.70	-28.53
2803	4	0.13	0.79	0.63	0.85	0.23	2.62	-2.75	-9.09	-229.80	-24.92
2804	1	0.18	0.21	-19.33	-4.23	-0.69	4.83	-1.53	-16.49	-158.12	-35.03
2804	2	0.67	0.21	-14.39	-5.37	-1.26	7.53	-2.29	-30.49	-180.94	-38.38
2804	3	0.67	0.79	-17.34	-4.21	-3.21	7.09	-4.39	-21.11	-171.71	-20.83
2804	4	0.18	0.79	-20.48	-4.02	-1.55	4.02	-0.26	-6.52	-148.02	-11.15
2805	1	0.21	0.21	-26.37	-3.57	-1.08	5.76	-3.94	13.56	-139.89	-17.94
2805	2	0.78	0.21	-22.41	-3.35	-1.19	5.86	3.23	-0.18	-212.94	-17.71
2805	3	0.78	0.79	-23.12	-3.59	-2.38	6.02	2.41	3.86	-201.50	-5.10
2805	4	0.21	0.79	-26.59	-3.66	-1.51	5.26	-5.94	14.93	-136.32	-1.84
2806	1	0.21	0.34	0.77	7.03	0.12	0.91	15.79	-78.93	14.45	-2.49
2806	2	0.79	0.34	0.80	6.80	0.05	-0.18	15.57	-75.91	13.46	-2.24
2806	3	0.79	1.28	3.83	21.96	0.04	-0.03	16.72	-61.81	11.10	-4.23
2806	4	0.21	1.28	3.64	21.69	0.01	0.35	17.36	-63.01	10.38	-6.71
2807	1	0.21	0.29	-3.06	-14.18	0.18	0.03	13.06	-81.24	8.54	4.56
2807	2	0.79	0.29	-3.11	-14.10	0.14	0.03	13.30	-80.52	10.35	3.33
2807	3	0.79	1.09	-0.97	-2.85	0.13	0.15	14.63	-79.07	12.48	1.09
2807	4	0.21	1.09	-0.98	-2.85	0.27	-1.30	14.03	-82.54	10.31	3.87
2808	1	0.21	0.32	-5.11	-25.14	0.15	0.07	5.03	-80.39	4.90	4.36
2808	2	0.79	0.32	-5.19	-25.13	0.13	-0.41	4.97	-81.09	7.33	3.59
2808	3	0.79	1.19	-4.28	-20.10	0.11	-0.72	6.48	-81.27	8.84	3.85
2808	4	0.21	1.19	-4.17	-20.05	0.19	0.55	6.67	-80.95	6.64	5.24
2809	1	0.21	0.28	-4.93	-24.28	0.08	-0.10	-3.13	-80.86	3.76	1.63
2809	2	0.79	0.28	-4.99	-24.27	0.08	-0.08	-3.19	-82.06	6.15	1.43
2809	3	0.79	1.06	-5.40	-26.21	0.10	-0.36	-1.79	-81.39	6.64	2.72
2809	4	0.21	1.06	-5.32	-26.23	0.12	0.27	-1.84	-80.44	4.25	3.28
2810	1	0.30	0.21	0.10	-0.34	0.19	-0.93	0.65	-1.85	-206.93	12.80
2810	2	1.10	0.21	-0.11	-0.57	0.13	-0.27	0.00	-0.32	-196.87	4.63
2810	3	1.10	0.79	-0.18	-0.26	0.13	0.84	0.47	-1.68	-189.72	3.28
2810	4	0.30	0.79	0.07	-0.08	0.11	-1.11	0.62	-3.92	-202.90	10.78
2811	1	0.23	0.21	1.66	0.05	-0.07	-1.98	1.29	-3.73	-217.77	13.07
2811	2	0.86	0.21	0.66	-0.16	0.19	-1.25	0.19	-2.92	-211.61	14.84
2811	3	0.86	0.79	0.88	0.05	0.22	-1.64	-0.01	-7.51	-210.71	13.30
2811	4	0.23	0.79	2.00	0.13	-0.05	-1.89	1.16	-8.62	-221.19	13.06
2812	1	0.09	0.21	-2.29	-0.22	-0.39	-1.91	0.61	-4.17	-221.29	-9.90
2812	2	0.33	0.21	-2.80	-0.25	-0.18	-2.32	1.33	-4.06	-223.62	-5.93
2812	3	0.33	0.79	-3.36	-0.30	-0.15	-2.19	0.87	-7.71	-234.23	-7.23
2812	4	0.09	0.79	-2.78	-0.17	-0.27	-2.14	0.40	-7.60	-227.55	-11.28
2813	1	0.09	0.21	3.15	0.32	-0.36	-0.49	-3.57	-4.25	-225.92	-4.78
2813	2	0.35	0.21	3.05	0.39	-0.39	-0.21	1.71	-4.47	-224.73	2.07
2813	3	0.35	0.79	3.44	-0.06	-0.31	1.24	1.47	-6.72	-237.57	3.97
2813	4	0.09	0.79	3.22	-0.03	-0.28	1.24	-2.63	-5.46	-241.10	-1.52
2814	1	0.09	0.21	-3.04	-0.40	-0.36	1.66	-1.42	-3.23	-226.03	10.07
2814	2	0.33	0.21	-2.65	-0.27	-0.36	1.80	4.43	-2.49	-225.56	17.06
2814	3	0.33	0.79	-2.05	0.44	-0.27	3.64	3.20	0.14	-239.10	11.07
2814	4	0.09	0.79	-2.84	0.32	-0.28	3.47	-1.25	-2.47	-241.27	6.01
2815	1	0.09	0.21	1.64	0.21	-0.23	2.92	-2.83	1.43	-222.83	-25.05
2815	2	0.32	0.21	2.28	0.34	-0.18	2.51	-0.21	-0.42	-224.74	-21.30
2815	3	0.32	0.79	1.52	-0.51	-0.14	2.98	-0.09	4.40	-235.46	-14.42
2815	4	0.09	0.79	0.85	-0.66	-0.16	3.08	-2.04	7.86	-228.01	-16.85
2816	1	0.13	0.21	0.03	-0.07	0.22	3.12	-2.95	7.43	-218.52	-20.45
2816	2	0.47	0.21	1.04	0.13	-0.03	2.74	-2.51	3.84	-222.37	-26.60
2816	3	0.47	0.79	0.27	-0.82	0.01	3.18	-1.98	12.53	-220.49	-16.96
2816	4	0.13	0.79	-0.83	-1.11	0.29	3.53	-2.67	17.82	-203.44	-12.92
2817	1	0.18	0.21	-22.18	-4.13	-1.68	6.09	-0.47	5.78	-142.42	0.22
2817	2	0.67	0.21	-19.99	-3.39	-3.32	2.97	-3.96	-5.22	-161.98	-9.16
2817	3	0.67	0.79	-22.95	-3.35	-2.59	2.93	-5.09	18.87	-149.10	-1.42
2817	4	0.18	0.79	-24.05	-4.26	-1.49	3.88	-1.48	20.87	-135.22	5.54
2818	1	0.21	0.21	-27.08	-3.92	-1.58	4.54	-6.56	17.78	-141.87	4.42
2818	2	0.78	0.21	-24.02	-3.40	-2.72	4.35	2.19	10.99	-196.34	2.98
2818	3	0.78	0.79	-25.41	-3.45	-2.51	4.26	3.48	21.49	-193.01	9.61
2818	4	0.21	0.79	-27.61	-4.19	-1.63	4.57	-6.67	21.45	-148.79	6.81
2819	1	0.21	0.34	0.88	6.74	0.02	0.43	15.44	-73.97	12.91	-2.03
2819	2	0.79	0.34	1.02	6.75	0.00	0.64	15.94	-72.84	12.02	-2.05
2819	3	0.79	1.28	4.20	22.42	0.08	0.40	17.54	-65.70	10.95	-0.41
2819	4	0.21	1.28	3.89	22.14	0.07	0.46	17.14	-62.18	11.36	-2.27
2820	1	0.21	0.29	-3.12	-14.08	0.12	0.33	13.47	-80.12	11.01	2.53
2820	2	0.79	0.29	-3.12	-14.11	0.08	-0.21	13.28	-79.17	11.99	1.55
2820	3	0.79	1.09	-0.92	-2.91	0.01	-0.19	14.72	-75.61	12.46	0.01
2820	4	0.21	1.09	-0.98	-2.88	0.04	-0.32	14.74	-78.01	12.67	0.07
2821	1	0.21	0.32	-5.25	-25.13	0.11	0.38	5.02	-81.57	8.83	3.03
2821	2	0.79	0.32	-5.29	-25.14	0.09	-0.40	4.99	-81.85	10.57	2.36
2821	3	0.79	1.19	-4.30	-20.12	0.07	-0.44	6.57	-80.39	11.34	2.26
2821	4	0.21	1.19	-4.28	-20.12	0.09	0.27	6.38	-80.55	10.21	2.92
2822	1	0.21	0.28	-5.03	-24.27	0.08	-0.04	-3.24	-82.78	7.76	1.29
2822	2	0.79	0.28	-5.08	-24.26	0.07	-0.04	-3.20	-83.59	9.72	1.09
2822	3	0.79	1.06	-5.48	-26.20	0.08	-0.34	-1.83	-82.54	10.08	1.94
2822	4	0.21	1.06	-5.44	-26.20	0.09	0.11	-1.81	-81.97	8.21	2.35
2823	1	0.30	0.25	0.02	0.07	0.23	-1.32	-0.02	-11.13	-198.17	9.48
2823	2	1.10	0.37	-0.52	0.34	0.02	0.04	0.82	-8.28	-185.78	-2.91
2823	3	1.10	0.95	-1.59	0.52	0.32	-0.44	-3.73	-12.92	-161.87	2.18
2823	4	0.30	0.83	0.25	0.35	0.39	-2.22	1.07	-13.66	-195.74	8.91
2824	1	0.23	0.21	2.24	0.24	0.05	-2.37	0.98	-10.61	-223.05	13.55
2824	2	0.86	0.21	0.96	0.08	0.29	-1.30	0.14	-10.20	-207.60	13.84
2824	3	0.86	0.79	0.92	0.34	0.31	-0.69	0.48	-15.50	-205.82	10.22
2824	4	0.23	0.79	2.38	0.32	0.30	-2.34	0.74	-12.30	-223.83	15.44
2825	1	0.09	0.21	-3.07	-0.22	-0.12	-1.85	0.16	-10.23	-233.01	-11.50
2825	2	0.33	0.21	-3.64	-0.23	-0.05	-1.90	0.00	-9.29	-240.34	-8.98
2825	3	0.33	0.79	-3.87	-0.32	0.14	-2.15	-1.45	-10.82	-245.49	-13.45
2825	4	0.09	0.79	-3.30	-0.23	0.19	-2.12	1.32	-13.94	-236.25	-12.91
2826	1	0.09	0.21	3.24	-0.26	-0.13	2.06	-1.23	-6.20	-249.69	2.45

2826	2	0.35	0.21	3.70	-0.09	-0.15	2.12	0.44	-8.30	-245.03	-6.52
2826	3	0.35	0.79	3.86	-0.25	0.10	2.97	-1.07	-9.67	-251.56	11.44
2826	4	0.09	0.79	3.26	-0.32	0.12	2.69	0.94	-6.49	-257.46	9.08
2827	1	0.09	0.21	-2.75	0.57	-0.13	4.43	-0.44	-2.27	-249.94	0.63
2827	2	0.33	0.21	-1.74	0.80	-0.13	4.58	1.47	1.06	-246.64	4.66
2827	3	0.33	0.79	-1.52	0.99	0.12	5.22	-0.86	1.21	-254.09	-4.53
2827	4	0.09	0.79	-2.63	0.79	0.12	5.18	1.25	-2.06	-258.02	-7.21
2828	1	0.09	0.21	0.40	-1.05	0.00	3.58	-1.23	9.47	-229.50	-8.96
2828	2	0.32	0.21	1.11	-0.88	-0.04	3.39	-0.51	5.40	-241.16	-7.00
2828	3	0.32	0.79	0.81	-1.17	0.14	3.58	-1.81	6.26	-247.31	2.77
2828	4	0.09	0.79	0.07	-1.36	0.28	3.57	0.14	9.63	-233.31	0.73
2829	1	0.13	0.21	-1.36	-1.59	0.38	4.11	-1.25	17.27	-197.03	-6.28
2829	2	0.47	0.21	-0.22	-1.28	0.14	3.15	-1.50	12.48	-218.45	-9.08
2829	3	0.47	0.79	-0.54	-1.56	0.32	3.39	-0.93	12.86	-219.27	-0.58
2829	4	0.13	0.79	-1.71	-1.88	0.44	3.89	-0.49	15.87	-192.65	-1.96
2830	1	0.18	0.21	-25.06	-4.32	-1.17	3.68	0.66	29.52	-132.02	5.19
2830	2	0.67	0.21	-24.30	-3.28	-1.71	2.70	-1.07	31.49	-142.28	-0.13
2830	3	0.67	0.79	-24.85	-3.28	-0.59	2.91	-2.00	40.61	-137.02	0.09
2830	4	0.18	0.79	-25.78	-4.43	-0.54	3.84	-0.14	37.25	-128.70	1.24
2831	1	0.21	0.21	-27.99	-4.48	-1.37	4.75	-5.60	22.09	-156.86	5.45
2831	2	0.78	0.21	-26.18	-3.66	-2.04	3.86	1.34	26.94	-189.31	8.42
2831	3	0.78	0.79	-26.64	-3.75	-1.23	3.49	2.43	31.22	-188.33	2.02
2831	4	0.21	0.79	-28.25	-4.70	-0.90	4.69	-3.29	23.39	-161.17	0.88
2832	1	0.21	0.34	1.14	6.77	0.03	0.18	15.93	-71.33	11.48	-1.59
2832	2	0.79	0.34	1.20	6.77	0.07	0.49	16.08	-70.76	10.73	-0.42
2832	3	0.79	1.28	4.46	22.73	0.07	0.10	18.14	-70.02	10.39	-0.68
2832	4	0.21	1.28	4.31	22.58	0.08	0.14	18.13	-67.97	10.58	0.11
2833	1	0.21	0.29	-3.12	-14.13	0.07	0.40	13.44	-78.33	12.40	1.27
2833	2	0.79	0.29	-3.11	-14.14	0.08	-0.22	13.41	-77.75	12.81	1.43
2833	3	0.79	1.09	-0.81	-2.93	0.06	-0.41	14.85	-74.21	12.16	0.62
2833	4	0.21	1.09	-0.85	-2.92	0.01	0.10	14.74	-75.64	12.00	0.15
2834	1	0.21	0.32	-5.31	-25.14	0.08	0.37	4.99	-81.94	11.61	2.03
2834	2	0.79	0.32	-5.33	-25.14	0.08	-0.38	5.00	-82.13	12.83	1.81
2834	3	0.79	1.19	-4.32	-20.14	0.07	-0.34	6.54	-79.91	12.95	1.81
2834	4	0.21	1.19	-4.31	-20.13	0.07	0.19	6.52	-80.09	12.05	2.00
2835	1	0.21	0.28	-5.11	-24.25	0.07	-0.04	-3.16	-84.06	10.97	0.98
2835	2	0.79	0.28	-5.14	-24.25	0.06	-0.03	-3.20	-84.63	12.45	0.85
2835	3	0.79	1.06	-5.54	-26.20	0.07	-0.32	-1.83	-83.34	12.64	1.47
2835	4	0.21	1.06	-5.51	-26.20	0.07	0.21	-1.84	-82.95	11.25	1.71
2836	1	0.17	0.12	22.31	-0.67	0.41	-6.94	1.23	5.65	9.99	-77.73
2836	2	0.62	0.12	17.09	0.62	0.52	-7.86	-0.36	0.68	-1.89	-64.61
2836	3	0.53	0.45	18.31	0.58	1.83	-8.40	-0.38	-0.29	-9.26	-61.51
2836	4	0.14	0.44	22.92	-0.39	1.63	-7.48	3.76	10.88	7.05	-69.60
2837	1	0.12	0.12	13.07	1.31	0.50	-8.49	0.60	-1.50	-22.17	-48.85
2837	2	0.58	0.13	8.34	1.88	0.58	-7.07	-0.93	3.21	-68.92	-28.18
2837	3	0.37	0.50	10.23	1.70	1.55	-6.81	-2.12	-11.26	-59.61	-39.54
2837	4	-0.02	0.47	14.58	1.17	1.78	-9.25	1.15	-8.72	-26.36	-51.88
2838	1	0.08	0.14	5.52	1.91	0.48	-7.01	0.14	7.76	-107.38	-14.58
2838	2	0.53	0.16	2.58	1.65	0.45	-5.07	-1.99	10.98	-161.52	-2.19
2838	3	0.19	0.59	4.40	1.73	0.92	-5.13	-0.46	-3.86	-135.96	-16.85
2838	4	-0.18	0.53	7.32	1.73	1.25	-7.43	-1.06	-9.35	-91.82	-29.52
2839	1	0.13	0.12	23.51	0.15	1.91	-6.90	6.07	17.92	9.53	-59.20
2839	2	0.47	0.12	19.21	0.92	2.09	-9.83	2.32	-2.75	-7.99	-52.79
2839	3	0.39	0.45	21.47	1.01	3.06	-15.03	0.28	-5.22	-5.97	-21.25
2839	4	0.12	0.44	25.96	0.52	1.62	-22.08	4.81	39.77	3.33	-23.87
2840	1	0.10	0.13	15.99	1.05	0.90	-10.80	2.56	-22.83	-13.47	-47.29
2840	2	0.43	0.14	11.68	1.30	0.95	-11.13	-0.52	-32.17	-41.27	-45.10
2840	3	0.27	0.53	13.72	1.18	2.80	-7.32	-1.54	-55.87	-20.88	-30.71
2840	4	0.00	0.48	18.48	0.89	2.29	-11.73	1.55	-32.60	-6.84	-22.85
2841	1	0.06	0.16	9.12	1.23	0.26	-10.35	0.04	-40.79	-60.05	-48.02
2841	2	0.39	0.18	5.94	1.05	0.34	-9.37	-2.90	-36.35	-103.26	-49.65
2841	3	0.14	0.67	7.47	0.98	1.78	-4.90	-1.65	-78.79	-52.25	-54.86
2841	4	-0.12	0.59	11.10	0.92	1.94	-6.60	-0.57	-70.78	-26.14	-37.01
2842	1	0.16	0.12	-25.45	1.48	0.22	-4.34	-0.69	10.58	6.93	76.92
2842	2	0.61	0.12	-27.64	2.03	-0.11	-2.18	-0.94	19.48	-13.13	62.29
2842	3	0.52	0.45	-28.26	2.05	0.19	-3.23	-3.51	31.60	7.51	56.87
2842	4	0.14	0.44	-25.79	1.26	1.14	-6.44	-2.07	22.68	11.46	70.41
2843	1	0.12	0.12	-27.90	1.76	-0.38	-0.34	-0.16	28.49	-39.40	44.32
2843	2	0.57	0.13	-26.91	0.43	-0.49	-0.02	-1.72	42.43	-80.93	22.86
2843	3	0.36	0.50	-28.18	1.58	-2.33	-2.86	1.61	53.45	-45.57	19.23
2843	4	-0.01	0.47	-28.61	2.18	-0.86	-3.87	-2.00	43.22	-7.98	42.53
2844	1	0.08	0.14	-25.95	-0.39	-0.49	1.01	-0.81	50.55	-108.16	11.97
2844	2	0.52	0.16	-24.89	-1.65	-0.60	-0.27	1.85	55.59	-133.98	2.69
2844	3	0.19	0.58	-25.66	-1.90	-3.00	-8.17	-3.87	73.31	-108.94	5.02
2844	4	-0.18	0.53	-26.74	0.51	-2.75	-7.32	-0.47	64.30	-75.29	9.85
2845	1	0.13	0.12	-25.97	0.12	3.58	-3.74	-5.53	42.11	8.28	60.68
2845	2	0.46	0.12	-28.54	1.42	2.99	1.70	-6.78	57.46	15.68	53.11
2845	3	0.39	0.45	-30.52	0.12	0.32	-33.99	-9.28	118.24	13.11	34.81
2845	4	0.12	0.44	-28.14	-0.47	2.40	-28.05	-4.25	78.75	4.54	25.00
2846	1	0.10	0.13	-29.18	1.67	4.62	7.11	-5.29	66.30	4.27	36.88
2846	2	0.43	0.14	-29.30	2.79	3.51	11.40	-4.10	71.15	-13.19	14.46
2846	3	0.27	0.53	-31.07	0.83	-1.19	-39.33	-12.57	140.22	12.12	36.80
2846	4	0.00	0.48	-31.09	0.38	1.04	-38.23	-10.21	140.49	14.35	33.76
2847	1	0.06	0.16	-28.37	2.42	4.59	17.67	-0.39	67.87	-38.53	-14.33
2847	2	0.39	0.18	-26.87	2.58	3.03	15.81	8.19	68.99	-77.58	-32.40
2847	3	0.14	0.66	-28.72	2.01	-2.36	-33.34	-17.80	102.30	-11.35	10.82
2847	4	-0.11	0.59	-30.52	1.74	-0.16	-39.65	-13.62	132.68	6.45	23.89
2848	1	0.36	0.12	-2.71	-25.13	1.52	0.04	2.53	-138.25	62.76	-2.63
2848	2	0.90	0.10	-2.77	-23.67	2.93	2.83	0.04	-143.64	73.76	-7.90
2848	3	1.21	0.37	-1.97	-23.31	4.32	-1.77	2.26	-134.91	81.46	-9.24
2848	4	0.76	0.46	-1.34	-23.40	2.44	-2.02	3.60	-126.14	72.96	-0.83
2849	1	0.30	0.09	-2.70	-22.12	4.13	1.64	5.24	-151.64	70.91	-18.18
2849	2	0.85	0.07	-3.34	-18.74	5.29	4.57	3.08	-167.96	39.82	-28.67
2849	3	1.01	0.27	-3.65	-16.88	7.19	5.24	5.58	-176.63	28.23	-18.27
2849	4	0.54	0.32	-1.61	-21.25	5.34	2.98	0.22	-152.46	63.03	-14.02
2850	1	0.25	0.07	-4.93	-14.90	5.19	4.21	6.79	-190.92	6.91	-26.54
2850	2	0.80	0.06	-6.33	-10.68	2.43	-2.32	9.52	-214.41	-30.77	-19.75
2850	3	0.83	0.22	-7.63	-7.48	2.79	-1.10	9.86	-249.25	-31.08	-8.61
2850	4	0.35	0.24	-5.56	-11.43	6.50	3.45	8.27	-209.81	-6.34	-11.00
2851	1	0.27	0.16	-3.82	-23.08	11.80	13.05	-5.55	-86.65	73.12	-50.46
2851	2	0.66	0.13	-4.93	-18.71	13.14	16.92	0.62	-107.19	55.60	-56.96
2851	3	0.89	0.47	-9.21	-11.40	11.80	-40.80	16.96	-67.90	26.73	-15.07
2851	4	0.57	0.59	-6.36	-17.23	13.07	-29.80	21.38	-11.77	51.37	-38.75
2852	1	0.24	0.10	-4.89	-17.48	12.47	14.20	8.64	-133.63	44.71	-37.80
2852	2	0.65	0.08	-7.48	-10.32	10.69	3.67	7.25	-177.81	1.40	-29.17
2852	3	0.78	0.30	-10.36	-3.28	6.90	-40.00	12.07	-225.83	-12.75	20.11
2852	4	0.44	0.37	-8.34	-8.57	10.11	-41.81	16.87	-122.91	5.81	14.32
2853	1	0.20	0.07	-7.66	-7.73	7.43	1.70	12.52	-231.14	-12.36	-2.46
2853	2	0.62	0.06	-9.21	-4.19	2.33	-1.99	9.74	-283.48	-29.37	-14.64
2853	3	0.64	0.23	-9.81	-0.64	0.61	-9.65	4.64	-353.30	-12.97	-3.69
2853	4	0.29	0.25	-9.62	-3.21	5.02	-30.95	11.37	-279.79	-8.45	37.41
2854	1	0.20	0.06	-6.33	-10.57	-1.42	2.17	9.51	-221.59	-38.82	-18.43
2854	2	0.75	0.07	-4.89	-14.65	-4.29	-4.62	6.97	-205.59	-24.82	-10.18
2854	3	0.65	0.24	-5.57	-11.11	-5.65	-3.73	8.45	-224.12	-32.29	-24.14
2854	4	0.17	0.22	-7.62	-7.34	-1.81	0.91	9.96	-258.94	-36.35	-23.42
2855	1	0.15	0.07	-3.25	-18.53	-4.51	-4.96	3.19	-181.46	-2.56	-2.12

2855	2	0.70	0.09	-2.60	-22.02	-3.43	-2.22	5.17	-161.38	27.92	-0.19	2869	4	0.12	0.44	-27.28	-0.55	-1.59	21.43	-4.93	61.24	3.76	0.82
2855	3	0.46	0.32	-1.56	-21.06	-4.75	-3.41	0.27	-173.41	13.35	-12.37	2870	1	0.10	0.13	-17.20	-1.20	-0.74	11.15	-2.46	16.98	-0.87	-4.21
2855	4	-0.01	0.27	-3.60	-16.56	-6.46	-5.54	5.77	-203.79	-15.83	-17.63	2870	2	0.43	0.14	-12.74	-1.61	-0.80	11.09	0.89	12.91	-20.89	-13.41
2856	1	0.10	0.10	-2.70	-23.69	-2.29	-3.38	-0.26	-148.58	-39.77	-1.39	2870	3	0.27	0.53	-14.82	-1.30	-2.93	6.87	1.54	46.47	-1.26	6.43
2856	2	0.64	0.12	-2.67	-25.29	-0.92	-0.49	2.27	-137.78	44.39	-1.10	2870	4	0.00	0.48	-19.76	-0.93	-2.32	11.01	-1.62	56.90	4.80	6.82
2856	3	0.24	0.46	-1.29	-23.51	-1.94	1.59	3.29	-138.13	39.39	-12.22	2871	1	0.06	0.16	-9.99	-1.74	-0.06	10.53	0.25	5.23	-42.77	-28.35
2856	4	-0.21	0.37	-1.91	-23.26	-3.78	1.24	2.16	-152.97	32.96	-10.60	2871	2	0.39	0.18	-6.65	-1.85	-0.11	9.15	3.12	6.84	-85.88	-39.65
2857	1	0.16	0.06	-9.10	-4.18	-1.36	1.29	9.80	-297.86	-28.91	-9.83	2871	3	0.14	0.67	-8.21	-1.43	-2.02	4.75	2.22	19.44	-24.68	-14.80
2857	2	0.58	0.07	-7.57	-7.45	-6.54	-2.08	12.58	-268.94	-30.48	-27.67	2871	4	-0.12	0.59	-12.08	-1.13	-2.08	6.25	0.73	37.40	-4.88	-1.63
2857	3	0.49	0.25	-9.38	-3.05	-4.56	26.30	10.81	-335.39	-18.28	-54.94	2872	1	0.36	0.13	-2.11	-2.76	-0.31	0.24	-4.92	-175.66	18.72	0.97
2857	4	0.14	0.23	-9.70	-0.64	-0.16	4.06	4.62	-368.14	-10.94	-4.98	2872	2	0.90	0.10	-1.86	-1.94	-0.26	2.26	-4.26	-189.60	22.36	-2.23
2858	1	0.12	0.08	-7.27	-10.13	-9.88	-3.60	7.47	-230.53	-23.72	-6.64	2872	3	1.21	0.38	-1.79	-2.59	0.19	3.38	-4.24	-169.96	26.35	4.41
2858	2	0.53	0.10	-4.68	-17.29	-11.83	-14.25	9.00	-183.41	1.32	-0.61	2872	4	0.77	0.47	-2.14	-3.82	0.12	2.24	-4.78	-149.32	20.21	9.46
2858	3	0.33	0.37	-8.04	-8.33	-9.67	39.52	16.39	-212.69	-21.86	-57.37	2873	1	0.30	0.09	-1.35	-1.12	-0.29	2.36	-3.48	-204.95	22.35	-8.32
2858	4	-0.01	0.30	-10.02	-3.09	-6.42	36.46	11.58	-302.12	-22.69	-45.46	2873	2	0.85	0.08	-0.34	-0.04	-0.36	3.17	-2.53	-231.23	8.45	-16.88
2859	1	0.07	0.13	-4.66	-18.74	-12.65	-16.97	0.77	-154.89	14.89	23.10	2873	3	1.01	0.28	-0.16	-0.21	-0.19	4.05	-1.91	-230.63	4.07	-4.53
2859	2	0.46	0.16	-3.61	-23.29	-11.45	-13.43	-5.55	-126.64	33.91	23.46	2873	4	0.54	0.33	-1.12	-1.41	0.05	3.34	-4.06	-196.64	20.09	1.98
2859	3	0.16	0.59	-6.18	-17.21	-12.85	28.79	21.19	-103.37	2.68	-17.98	2874	1	0.25	0.07	0.62	0.57	-0.46	2.67	-2.40	-256.52	-9.52	-19.37
2859	4	-0.16	0.47	-8.88	-11.24	-11.44	39.13	16.70	-169.04	-7.69	-31.90	2874	2	0.80	0.06	1.74	0.92	-0.41	1.48	-1.84	-283.78	-36.36	-19.30
2860	1	0.29	0.16	-25.15	-1.65	0.06	-0.15	2.33	42.38	-131.75	2.28	2874	3	0.83	0.24	1.80	0.57	-0.45	1.59	-1.06	-308.70	-35.71	-8.99
2860	2	0.74	0.14	-26.38	-0.40	0.07	-1.32	-0.66	36.53	-110.07	4.28	2874	4	0.35	0.25	0.76	0.38	-0.39	2.77	-2.27	-268.29	-16.80	-3.90
2860	3	1.00	0.53	-27.12	0.49	2.45	6.98	-0.11	33.14	-94.53	15.70	2875	1	0.27	0.16	-2.72	-4.33	1.54	5.05	-5.49	-119.79	24.68	-23.71
2860	4	0.63	0.58	-25.87	-1.88	2.56	7.98	-3.62	42.06	-121.51	10.21	2875	2	0.66	0.13	-1.97	-2.31	0.99	5.38	-3.26	-151.15	17.38	-33.14
2861	1	0.25	0.13	-27.48	0.43	0.17	-0.55	-1.36	28.28	-86.23	5.95	2875	3	0.89	0.48	-2.34	-1.28	1.30	4.53	-1.54	-111.83	5.98	8.26
2861	2	0.69	0.12	-28.72	1.75	0.19	-0.06	0.07	14.87	-46.57	4.17	2875	4	0.57	0.60	-3.55	-3.40	2.79	4.82	-2.54	-56.46	14.15	-2.78
2861	3	0.83	0.47	-29.40	2.18	0.76	3.45	-1.76	18.58	-31.69	10.56	2876	1	0.24	0.10	-1.19	-1.28	0.51	5.10	-1.84	-179.70	14.20	-18.81
2861	4	0.45	0.50	-28.73	1.55	2.12	2.50	2.00	26.41	-66.96	16.08	2876	2	0.65	0.08	-0.07	-0.12	-0.08	3.86	-1.29	-230.51	-10.65	-20.84
2862	1	0.20	0.12	-28.65	2.03	0.00	1.67	-0.65	7.13	-21.46	1.52	2876	3	0.78	0.31	0.25	0.15	-0.11	4.95	-0.69	-265.18	-13.86	26.75
2862	2	0.65	0.12	-26.68	1.49	-0.24	4.03	-0.49	0.24	0.85	-1.82	2876	4	0.44	0.38	-1.23	-0.64	0.60	4.04	-2.17	-161.83	-7.19	30.79
2862	3	0.68	0.44	-26.97	1.27	-1.13	6.09	-2.05	11.94	3.86	0.02	2877	1	0.20	0.07	0.92	0.24	-0.39	2.98	-1.42	-283.31	-18.40	1.57
2862	4	0.29	0.45	-29.25	2.06	-0.24	2.77	-3.27	13.75	-11.23	6.17	2877	2	0.62	0.06	1.90	0.30	-0.40	1.71	-0.79	-335.92	-32.40	-16.56
2863	1	0.22	0.18	-26.90	2.44	-3.38	-16.40	8.67	16.57	-97.42	50.30	2877	3	0.63	0.24	2.07	0.09	-0.21	3.55	-0.09	-399.87	-14.06	-4.33
2863	2	0.54	0.16	-28.62	2.34	-4.87	-18.45	-0.01	13.10	-60.95	43.26	2877	4	0.29	0.26	1.12	-0.01	-0.29	4.46	-1.12	-321.67	-12.64	42.95
2863	3	0.72	0.59	-30.79	1.74	0.08	39.28	-13.33	12.08	-19.40	18.72	2878	1	0.20	0.06	2.15	0.93	-0.16	-0.02	-2.09	-289.77	-43.09	-18.46
2863	4	0.46	0.66	-28.69	1.99	2.21	32.88	-17.20	-10.64	-44.32	37.73	2878	2	0.75	0.07	1.77	0.72	-0.03	-1.64	-2.97	-271.35	-34.17	-14.18
2864	1	0.19	0.14	-29.79	2.77	-3.72	-12.12	-3.69	17.77	-40.64	26.99	2878	3	0.65	0.25	1.84	0.30	-0.08	-1.53	-2.27	-290.96	-38.29	-28.00
2864	2	0.52	0.13	-29.95	1.65	-4.77	-7.98	-5.17	18.33	-13.65	14.56	2878	4	0.17	0.24	2.17	0.50	-0.18	0.30	-1.62	-317.64	-40.91	-23.10
2864	3	0.62	0.48	-31.91	0.38	-1.05	38.03	-10.22	48.00	1.17	-0.31	2879	1	0.15	0.08	1.04	0.38	-0.07	-2.48	-3.69	-246.59	-23.09	-9.25
2864	4	0.35	0.53	-31.58	0.85	1.16	39.08	-12.40	29.80	-11.16	6.37	2879	2	0.70	0.09	-0.01	-0.35	-0.25	-2.44	-4.50	-219.14	-10.66	-4.82
2865	1	0.16	0.12	-29.51	1.42	-3.06	-2.33	-6.68	24.54	-2.76	5.03	2879	3	0.46	0.33	0.18	-0.98	-0.34	-2.68	-5.06	-218.63	-18.73	-22.39
2865	2	0.50	0.12	-27.13	0.10	-3.61	3.25	-5.63	26.36	6.22	0.72	2879	4	-0.01	0.28	1.14	-0.08	-0.14	-2.86	-2.78	-256.81	-30.64	-26.14
2865	3	0.51	0.44	-29.39	-0.49	-2.40	27.62	-4.43	60.69	3.80	0.22	2880	1	0.10	0.10	-0.71	-0.96	-0.39	-2.54	-5.05	-201.96	-3.53	-1.11
2865	4	0.23	0.45	-31.54	0.10	-0.28	33.71	-9.29	54.89	1.50	-3.80	2880	2	0.64	0.13	-1.35	-1.65	-0.50	-0.92	-5.68	-186.39	7.11	0.99
2866	1	0.17	0.12	-23.64	0.66	-0.37	6.65	-1.06	-2.28	5.77	-4.28	2880	3	0.23	0.47	-1.26	-2.91	-0.65	-1.89	-5.07	-162.99	-6.66	-14.71
2866	2	0.62	0.12	-18.47	-0.69	-0.35	7.85	0.56	-3.17	-4.76	-6.09	2880	4	-0.21	0.38	-0.65	-1.92	-0.58	-2.89	-4.92	-189.23	-13.18	-16.96
2866	3	0.53	0.45	-19.62	-0.65	-1.76	8.26	0.45	7.22	1.28	-4.71	2881	1	0.16	0.06	2.19	0.32	-0.26	0.54	-1.00	-350.01	-33.49	-8.20
2866	4	0.14	0.44	-24.20	0.38	-1.60	7.15	-3.63	10.06	7.69	-1.02	2881	2	0.58	0.07	1.88	0.11	-0.18	-1.60	-1.37	-318.48	-34.18	-29.38
2867	1	0.12	0.12	-14.41	-1.45	-0.21	8.30	-0.51	-1.44	-25.64	-7.48	2881	3	0.49	0.26	1.96	-0.07	0.07	0.69	-0.27	-374.67	-21.92	-59.72
2867	2	0.58	0.13	-9.58	-2.16	-0.01	7.25	1.02	6.54	-70.23	-7.83	2881	4	0.14	0.24	2.30	0.10	-0.12	2.71	-0.34	-414.73	-12.49	-4.41
2867	3	0.37	0.50	-11.35	-2.05	-1.31	6.60	2.22	8.35	-47.07	-13.41	2882	1	0.12	0.08	1.09	-0.09	-0.43	-3.30	-1.79	-278.18	-30.68	-9.42
2867	4	-0.02	0.47	-15.81	-1.34	-1.66	8.92	-0.99	6.76	-12.27	-7.18	2882	2	0.53	0.10	0.01	-1.09	-0.89	-5.03	-2.73	-224.58	-21.12	-11.58
2868	1	0.08	0.14	-6.71	-2.30	0.17	6.68	-0.46	12.23	-106.80	-6.47	2882	3	0.32	0.38	-0.10	-0.67	-0.58	-1.22	-1.59	-241.76	-30.31	-67.13
2868	2	0.53	0.16	-3.71	-2.23	0.35	4.97	1.54	16.46	-155.55	-3.31	2882	4	-0.01	0.31	1.28	0.05	-0.08	-0.41	-0.07	-336.24	-22.65	-49.28
2868	3	0.19	0.59	-5.36	-2.43	-0.39	4.49	0.47	20.03	-123.92	-9.75	2883	1	0.07	0.13	-0.97	-1.82	-1.35	-5.87	-4.13	-193.25	-17.52	7.44
2868	4	-0.18	0.53	-8.36	-2.24	-0.89	6.97	1.14	13.97	-78.94	-13.40	2883	2	0.46	0.16	-1.96	-3.53	-1.60	-5.41	-6.34	-152.50	-10.82	4.73
2869	1	0.13	0.12	-24.76	-0.18	-1.84	6.75	-6.16	26.57	8.19	0.61	2883	3	0.16	0.60	-2.70	-3.07	-2.61	-3.75	-2.75	-133.58	-28.52	-44.99
2869	2	0.47	0.12	-20.48	-0.99	-2.00	9.78	-2.31	23.04	5.57	-0.48	2883	4	-0.16	0.48	-1.29	-1.19	-1.27	-2.52	-1.33	-198.84	-22.99	-47.26
2869	3	0.39	0.45	-22.81	-1.06	-3.12	14.33	-0.42	59.08	4.41	7.39	2884	1	0.13	0.21	-1.67	-1.93	0.48	3.78	0.74	16.52	-195.31	1.57

2884	2	0.47	0.21	-0.52	-1.65	0.47	3.28	-0.54	13.37	-222.51	5.01
2884	3	0.47	0.79	-0.13	-1.44	0.64	2.86	0.08	13.57	-230.52	14.07
2884	4	0.13	0.79	-1.20	-1.74	0.53	3.86	1.42	19.05	-206.41	6.95
2885	1	0.09	0.21	0.08	-1.38	0.50	3.50	0.75	9.94	-237.08	7.21
2885	2	0.32	0.21	0.80	-1.23	0.28	3.50	-2.81	6.47	-251.71	9.51
2885	3	0.32	0.79	1.05	-1.13	0.45	3.09	-4.01	6.14	-256.45	19.52
2885	4	0.09	0.79	0.42	-1.31	0.78	3.23	2.24	10.41	-243.17	17.27
2886	1	0.09	0.21	-2.59	0.89	0.33	5.01	3.10	-1.51	-262.18	-13.68
2886	2	0.33	0.21	-1.47	1.12	0.32	5.05	-2.70	1.79	-258.55	-11.38
2886	3	0.33	0.79	-1.66	1.04	0.57	4.45	-5.22	1.89	-262.65	-20.41
2886	4	0.09	0.79	-2.64	0.85	0.58	4.48	4.33	-1.87	-266.34	-21.03
2887	1	0.09	0.21	3.21	-0.40	0.35	3.03	2.47	-7.04	-261.19	15.35
2887	2	0.35	0.21	3.85	-0.19	0.33	3.27	-3.04	-10.00	-252.95	16.57
2887	3	0.35	0.79	3.61	-0.39	0.61	2.14	-5.25	-6.88	-256.43	23.88
2887	4	0.09	0.79	3.12	-0.46	0.61	2.02	4.85	-4.66	-264.80	22.16
2888	1	0.09	0.21	-3.35	-0.21	0.39	-1.63	1.28	-14.99	-234.75	-16.54
2888	2	0.33	0.21	-3.91	-0.30	0.26	-1.98	-2.61	-12.41	-246.78	-16.83
2888	3	0.33	0.79	-3.64	-0.20	0.46	-1.50	-3.67	-12.51	-249.04	-23.47
2888	4	0.09	0.79	-3.10	-0.18	0.66	-1.43	3.13	-11.44	-231.22	-28.01
2889	1	0.23	0.21	2.33	0.29	0.52	-2.65	1.08	-16.22	-224.03	15.65
2889	2	0.86	0.21	0.88	0.26	0.55	-1.72	-2.85	-17.63	-201.14	11.62
2889	3	0.86	0.79	1.02	0.06	0.65	-1.38	-0.18	-17.27	-192.43	16.99
2889	4	0.23	0.79	2.21	0.20	0.76	-2.42	1.03	-23.04	-219.64	17.18
2890	1	0.30	0.17	0.35	0.52	0.47	0.31	1.78	-12.55	-192.63	5.55
2890	2	1.10	0.05	-1.48	0.80	0.74	-2.78	2.59	-13.73	-169.83	4.50
2890	3	1.10	0.63	-0.52	0.58	0.83	-0.94	-2.50	-15.99	-179.66	7.36
2890	4	0.30	0.75	0.21	0.33	0.86	-0.71	0.31	-17.63	-184.96	-1.65
2891	1	0.18	0.21	-25.75	-4.44	-0.05	3.86	1.06	39.12	-129.12	-3.91
2891	2	0.67	0.21	-24.81	-3.30	0.21	2.92	1.83	43.46	-137.78	-1.49
2891	3	0.67	0.79	-24.15	-3.35	1.32	2.73	0.84	40.36	-145.58	-4.07
2891	4	0.18	0.79	-24.96	-4.37	0.55	3.77	0.30	34.96	-132.71	-10.75
2892	1	0.21	0.21	-28.26	-4.76	-0.39	4.70	-1.69	23.71	-161.15	-3.16
2892	2	0.78	0.21	-26.61	-3.80	-0.54	3.53	0.41	32.24	-188.20	-4.83
2892	3	0.78	0.79	-26.12	-3.87	0.27	3.91	1.49	29.80	-188.44	-13.09
2892	4	0.21	0.79	-28.03	-4.68	0.04	4.81	0.58	22.53	-155.45	-8.88
2893	1	0.21	0.34	1.20	6.78	0.12	-0.19	16.09	-70.15	10.81	0.58
2893	2	0.79	0.34	1.14	6.79	0.17	0.12	15.97	-69.29	11.72	1.98
2893	3	0.79	1.28	4.34	22.64	0.08	-0.48	18.16	-66.72	10.60	-1.87
2893	4	0.21	1.28	4.47	22.75	0.09	-0.43	18.17	-69.71	10.39	-1.08
2894	1	0.21	0.29	-3.12	-14.15	0.10	0.31	13.41	-77.47	13.23	1.75
2894	2	0.79	0.29	-3.15	-14.14	0.11	-0.27	13.45	-77.36	13.99	2.20
2894	3	0.79	1.09	-0.86	-2.92	0.13	-0.34	14.80	-73.82	13.01	2.05
2894	4	0.21	1.09	-0.82	-2.93	0.08	0.16	14.87	-73.83	12.40	1.15
2895	1	0.21	0.32	-5.34	-25.14	0.08	0.39	5.01	-82.30	13.60	1.73
2895	2	0.79	0.32	-5.37	-25.13	0.08	-0.39	5.00	-82.59	14.56	1.71
2895	3	0.79	1.19	-4.36	-20.13	0.09	-0.36	6.52	-79.78	14.40	2.07
2895	4	0.21	1.19	-4.33	-20.14	0.08	0.21	6.54	-79.80	13.56	1.86
2896	1	0.21	0.28	-5.16	-24.24	0.06	-0.02	-3.20	-85.01	13.38	0.78
2896	2	0.79	0.28	-5.18	-24.23	0.05	-0.01	-3.20	-85.50	14.48	0.69
2896	3	0.79	1.06	-5.57	-26.19	0.06	-0.29	-1.83	-84.04	14.55	1.31
2896	4	0.21	1.06	-5.55	-26.19	0.06	0.24	-1.84	-83.61	13.52	1.38
2897	1	0.30	0.21	0.16	0.02	1.07	-2.58	2.27	-26.00	-173.37	-1.29
2897	2	1.10	0.21	-0.30	0.05	0.77	2.47	-3.21	-12.90	-183.14	-11.97
2897	3	1.10	0.79	-0.19	-0.27	1.04	-0.51	-2.86	10.21	-197.15	-30.79
2897	4	0.30	0.79	0.34	-0.15	1.09	-1.29	2.28	-30.39	-152.52	11.82
2898	1	0.23	0.21	2.06	0.12	0.90	-1.56	1.06	-15.69	-207.63	29.09
2898	2	0.86	0.21	1.11	0.13	0.70	-0.27	-2.99	-24.30	-188.70	18.13
2898	3	0.86	0.79	1.06	0.00	0.76	-0.77	-2.34	-34.25	-165.76	0.23
2898	4	0.23	0.79	1.69	0.00	1.03	-1.49	1.01	10.54	-209.10	53.07
2899	1	0.09	0.21	-2.73	-0.05	0.85	-2.24	2.37	-4.82	-243.50	-30.44
2899	2	0.33	0.21	-3.24	-0.14	0.56	-2.04	-5.15	-4.15	-252.70	-26.01
2899	3	0.33	0.79	-2.62	-0.07	0.64	-1.66	-5.29	-3.85	-249.48	-26.32
2899	4	0.09	0.79	-2.28	-0.06	1.04	-0.98	2.66	-10.46	-257.18	-16.88
2900	1	0.09	0.21	3.06	-0.31	0.77	1.54	6.45	-5.60	-264.40	25.70
2900	2	0.35	0.21	3.34	-0.24	0.75	1.56	-5.24	-7.57	-260.20	24.13
2900	3	0.35	0.79	2.79	-0.13	0.92	-0.10	-7.64	-2.78	-252.00	29.99
2900	4	0.09	0.79	2.97	-0.15	0.93	-0.29	7.30	-4.08	-261.43	30.17
2901	1	0.09	0.21	-2.69	0.68	0.75	3.30	5.84	-1.78	-265.04	-27.22
2901	2	0.33	0.21	-1.95	0.83	0.74	3.52	-7.06	0.77	-263.56	-27.30
2901	3	0.33	0.79	-2.66	0.25	0.85	1.38	-8.42	-2.06	-261.26	-33.13
2901	4	0.09	0.79	-2.88	0.19	0.87	0.88	5.80	-2.29	-263.65	-30.88
2902	1	0.09	0.21	0.92	-0.93	0.92	2.69	3.14	8.76	-248.52	25.68
2902	2	0.32	0.21	1.49	-0.83	0.56	2.48	-4.30	5.06	-259.02	27.16
2902	3	0.32	0.79	2.36	-0.08	0.59	1.82	-3.99	-0.17	-258.12	34.25
2902	4	0.09	0.79	1.82	-0.20	0.96	2.59	4.12	1.57	-251.99	34.44
2903	1	0.13	0.21	-0.59	-1.33	0.59	3.19	3.05	19.81	-217.27	14.63
2903	2	0.47	0.21	0.40	-1.11	0.74	2.77	0.66	13.74	-238.38	22.68
2903	3	0.47	0.79	1.29	-0.16	0.74	2.27	1.38	4.38	-247.55	33.32
2903	4	0.13	0.79	0.38	-0.33	0.63	2.82	3.25	8.57	-237.21	23.82
2904	1	0.18	0.21	-23.90	-4.35	0.85	3.94	2.43	27.10	-136.33	-14.79
2904	2	0.67	0.21	-22.73	-3.45	2.16	3.03	4.89	29.99	-153.84	-7.26
2904	3	0.67	0.79	-19.69	-3.54	2.84	3.08	3.70	3.88	-167.67	-5.72
2904	4	0.18	0.79	-21.98	-4.23	1.01	6.04	1.44	8.80	-142.14	-14.01
2905	1	0.21	0.21	-27.69	-4.50	0.30	4.72	1.49	21.36	-145.25	-10.99
2905	2	0.78	0.21	-25.36	-3.78	0.67	4.39	-0.60	23.97	-190.23	-17.50
2905	3	0.78	0.79	-24.03	-3.85	0.75	4.77	1.00	12.43	-188.96	-14.89
2905	4	0.21	0.79	-27.24	-4.36	0.26	4.86	1.30	18.01	-133.56	-8.71
2906	1	0.21	0.34	1.04	6.78	0.20	-0.25	15.98	-69.55	12.60	2.92
2906	2	0.79	0.34	0.91	6.81	0.21	-0.13	15.77	-68.83	14.37	3.97
2906	3	0.79	1.28	3.95	22.25	0.10	-0.81	17.39	-57.90	11.29	0.38
2906	4	0.21	1.28	4.24	22.50	0.09	-0.79	17.59	-63.45	10.91	-1.35
2907	1	0.21	0.29	-3.18	-14.13	0.12	0.25	13.33	-77.49	14.66	2.56
2907	2	0.79	0.29	-3.22	-14.12	0.12	-0.26	13.39	-77.78	15.39	2.93
2907	3	0.79	1.09	-1.01	-2.91	0.14	-0.05	14.68	-73.96	14.70	3.24
2907	4	0.21	1.09	-0.93	-2.92	0.14	-0.09	14.84	-72.90	13.92	2.61
2908	1	0.21	0.32	-5.38	-25.13	0.08	0.38	4.99	-82.83	15.19	1.73
2908	2	0.79	0.32	-5.40	-25.12	0.07	-0.35	5.00	-83.26	15.87	1.80
2908	3	0.79	1.19	-4.41	-20.10	0.09	-0.42	6.50	-80.24	15.68	2.45
2908	4	0.21	1.19	-4.38	-20.12	0.10	0.30	6.55	-80.12	14.94	2.25
2909	1	0.21	0.28	-5.19	-24.23	0.05	0.00	-3.20	-85.87	15.15	0.65
2909	2	0.79	0.28	-5.20	-24.22	0.05	0.01	-3.20	-86.38	15.91	0.60
2909	3	0.79	1.06	-5.60	-26.17	0.06	-0.27	-1.84	-84.84	15.93	1.31
2909	4	0.21	1.06	-5.59	-26.18	0.06	0.25	-1.84	-84.31	15.19	1.30
2910	1	0.30	0.21	0.48	-0.08	1.00	-1.43	1.23	-13.30	-144.97	-19.46
2910	2	1.10	0.21	-0.04	-0.47	0.79	-0.21	-2.67	22.30	-208.51	-24.52
2910	3	1.10	0.79	-0.03	-0.88	0.62	-0.33	-2.33	-0.46	-274.00	19.92
2910	4	0.30	0.79	0.26	-0.49	0.87	-1.56	-0.31	30.39	-67.25	-146.78
2911	1	0.23	0.21	1.47	-0.07	1.12	-0.64	0.78	5.60	-242.06	47.99
2911	2	0.86	0.21	0.95	0.01	0.91	-0.32	-1.30	-25.06	-123.13	31.13
2911	3	0.86	0.79	0.70	-0.30	0.96	-0.12	-3.15	26.48	-39.12	173.79
2911	4	0.23	0.79	1.29	-0.24	1.15	-1.08	0.92	-7.21	-287.93	20.53
2912	1	0.09	0.21	-1.77	0.14	1.07	-1.30	3.01	7.15	-205.36	-33.70
2912	2	0.33	0.21	-2.10	0.10	0.67	-1.05	-5.64	3.11	-247.98	-31.29
2912	3	0.33	0.79	-1.96	-0.01	0.56	-2.00	-5.66	11.16	-259.74	-23.56
2912	4	0.09	0.79	-1.57	0.06	1.00	-2.01	0.75	8.39	-271.75	-35.09
2913	1	0.09	0.21	2.92	0.01	0.86	-2.59	7.33	1.26	-258.87	28.11

2913	2	0.35	0.21	2.42	-0.16	0.86	-2.86	-5.96	2.12	-259.77	26.84
2913	3	0.35	0.79	2.44	0.50	0.55	-3.74	-2.74	3.19	-254.16	21.84
2913	4	0.09	0.79	3.21	0.65	0.55	-3.88	5.92	-0.37	-255.71	20.61
2914	1	0.09	0.21	-3.21	-0.36	0.78	-0.97	4.85	-3.40	-257.90	-29.95
2914	2	0.33	0.21	-3.30	-0.38	0.75	-1.04	-8.16	-5.29	-256.19	-32.62
2914	3	0.33	0.79	-4.10	-1.45	0.41	-2.79	-5.59	-9.78	-249.34	-24.50
2914	4	0.09	0.79	-3.69	-1.33	0.43	-2.29	1.67	-5.61	-254.21	-22.28
2915	1	0.09	0.21	2.61	0.71	0.81	2.08	4.23	-8.03	-253.41	36.32
2915	2	0.32	0.21	3.18	0.74	0.50	2.06	-2.70	-6.94	-254.83	35.00
2915	3	0.32	0.79	4.04	1.79	0.27	2.58	-1.11	-14.29	-248.21	26.69
2915	4	0.09	0.79	3.32	1.69	0.42	2.35	2.91	-20.22	-250.52	28.39
2916	1	0.13	0.21	1.01	0.61	0.60	2.36	3.01	-9.18	-251.98	29.04
2916	2	0.47	0.21	1.95	0.69	0.63	2.78	1.40	-9.50	-251.33	35.79
2916	3	0.47	0.79	2.57	1.79	0.37	3.26	0.86	-25.41	-254.85	27.80
2916	4	0.13	0.79	1.41	1.73	0.44	2.39	1.88	-32.79	-269.74	25.48
2917	1	0.18	0.21	-20.27	-4.12	0.85	4.18	1.22	-8.27	-141.67	-5.22
2917	2	0.67	0.21	-17.05	-4.38	2.68	7.16	4.03	-19.01	-177.50	0.72
2917	3	0.67	0.79	-14.15	-5.47	0.72	7.60	2.09	-33.64	-188.18	14.47
2917	4	0.18	0.79	-19.10	-4.38	-0.04	5.45	2.79	-17.26	-144.56	14.75
2918	1	0.21	0.21	-26.68	-4.08	-0.07	5.01	0.36	15.76	-123.86	-2.62
2918	2	0.78	0.21	-22.99	-4.12	0.33	6.14	1.05	3.69	-191.63	-5.98
2918	3	0.78	0.79	-22.02	-4.17	-0.83	5.86	-0.23	-2.59	-190.90	12.75
2918	4	0.21	0.79	-26.44	-4.25	-0.67	5.51	-2.78	14.48	-122.51	10.15
2919	1	0.21	0.34	0.81	6.81	0.17	0.09	15.74	-69.77	15.02	4.46
2919	2	0.79	0.34	0.79	6.84	0.12	0.06	15.69	-70.26	15.44	4.82
2919	3	0.79	1.28	3.76	22.04	0.11	-0.29	16.71	-54.84	11.62	7.34
2919	4	0.21	1.28	3.84	22.12	0.09	-0.48	16.83	-55.18	11.60	2.78
2920	1	0.21	0.29	-3.25	-14.10	0.11	0.30	13.28	-78.15	15.84	3.12
2920	2	0.79	0.29	-3.25	-14.09	0.08	-0.15	13.30	-78.64	16.03	3.35
2920	3	0.79	1.09	-1.08	-2.89	0.07	0.21	14.68	-74.07	15.51	4.11
2920	4	0.21	1.09	-1.06	-2.90	0.12	-0.34	14.74	-73.28	15.42	3.61
2921	1	0.21	0.32	-5.40	-25.11	0.07	0.38	4.99	-83.60	16.27	1.87
2921	2	0.79	0.32	-5.40	-25.09	0.06	-0.30	4.99	-84.15	16.64	2.01
2921	3	0.79	1.19	-4.42	-20.08	0.06	-0.46	6.51	-81.13	16.29	2.82
2921	4	0.21	1.19	-4.42	-20.09	0.08	0.40	6.52	-80.71	16.02	2.60
2922	1	0.21	0.28	-5.20	-24.21	0.04	0.01	-3.21	-86.80	16.35	0.56
2922	2	0.79	0.28	-5.20	-24.20	0.04	0.02	-3.21	-87.41	16.82	0.53
2922	3	0.79	1.06	-5.60	-26.15	0.04	-0.26	-1.83	-85.79	16.78	1.40
2922	4	0.21	1.06	-5.60	-26.16	0.05	0.26	-1.84	-85.19	16.35	1.32
2923	1	0.30	0.21	-0.01	-1.16	0.76	0.06	-0.44	-27.73	-451.02	-145.88
2923	2	1.10	0.21	-0.08	-1.18	0.53	0.13	-2.02	0.89	-225.34	20.46
2923	3	1.10	0.79	-0.05	-1.39	0.55	0.04	-1.55	-22.18	-289.62	-23.17
2923	4	0.30	0.79	-0.17	-1.38	0.69	0.32	1.53	13.73	-372.64	-16.95
2924	1	0.23	0.21	1.25	-0.28	0.97	-2.33	1.11	14.23	-247.39	21.09
2924	2	0.86	0.21	0.39	-0.93	0.88	-2.22	-2.58	-21.78	-490.20	174.95
2924	3	0.86	0.79	0.21	-1.11	0.62	-2.82	-0.73	27.16	-406.26	34.75
2924	4	0.23	0.79	1.46	-0.38	0.55	-2.72	1.21	-3.03	-295.40	49.75
2925	1	0.09	0.21	-1.82	-0.16	0.74	-2.07	0.60	-1.48	-262.83	-34.78
2925	2	0.33	0.21	-2.33	-0.37	0.40	-3.22	-4.17	-5.19	-269.81	-22.47
2925	3	0.33	0.79	-2.81	-0.47	0.15	-4.06	-1.36	-0.88	-288.60	-27.04
2925	4	0.09	0.79	-2.12	-0.18	0.23	-3.24	1.25	-4.24	-333.06	-33.41
2926	1	0.09	0.21	3.65	1.36	0.28	-4.12	3.90	-3.49	-255.45	16.01
2926	2	0.35	0.21	2.81	1.16	0.29	-3.28	-0.96	-2.39	-269.96	19.23
2926	3	0.35	0.79	3.33	1.36	0.01	-2.65	-0.80	-4.39	-273.51	18.77
2926	4	0.09	0.79	4.07	1.53	0.02	-3.28	-0.38	-6.33	-264.06	13.25
2927	1	0.09	0.21	-4.05	-2.06	0.15	-1.81	0.19	-7.14	-249.76	-15.20
2927	2	0.33	0.21	-4.48	-2.10	0.14	-2.39	-2.42	-12.26	-246.64	-15.33
2927	3	0.33	0.79	-4.61	-2.17	-0.08	-1.49	1.47	-11.02	-251.43	-4.49
2927	4	0.09	0.79	-4.40	-2.10	-0.08	-1.02	0.32	-7.97	-258.50	-9.29
2928	1	0.09	0.21	3.58	2.20	0.15	2.85	1.06	-23.43	-249.75	14.94
2928	2	0.32	0.21	4.36	2.33	0.09	2.99	-0.42	-16.41	-246.05	15.03
2928	3	0.32	0.79	4.40	2.25	-0.07	3.55	-0.19	-14.03	-249.16	1.96
2928	4	0.09	0.79	3.54	2.10	-0.12	3.32	-1.02	-19.00	-252.02	0.17
2929	1	0.13	0.21	1.49	2.14	0.18	2.86	0.18	-39.66	-273.01	15.65
2929	2	0.47	0.21	2.76	2.20	0.12	3.54	0.04	-30.11	-254.67	15.88
2929	3	0.47	0.79	2.69	2.02	-0.08	4.00	-1.16	-24.12	-252.86	0.02
2929	4	0.13	0.79	1.36	1.81	-0.01	3.41	-1.43	-30.79	-260.77	5.36
2930	1	0.18	0.21	-19.14	-4.43	-0.96	5.50	-1.66	-11.02	-145.56	29.66
2930	2	0.67	0.21	-14.20	-5.49	-1.56	7.46	-2.81	-24.47	-185.43	27.59
2930	3	0.67	0.79	-17.21	-4.47	-3.45	7.07	-4.66	10.30	-171.18	36.42
2930	4	0.18	0.79	-20.40	-4.27	-1.82	4.30	-0.11	11.44	-142.73	41.69
2931	1	0.21	0.21	-26.53	-4.49	-1.33	5.73	-5.48	15.38	-130.26	20.00
2931	2	0.78	0.21	-22.07	-4.35	-1.92	5.94	4.07	1.19	-192.43	29.53
2931	3	0.78	0.79	-23.12	-4.72	-3.02	6.30	3.00	15.79	-199.84	40.39
2931	4	0.21	0.79	-26.93	-4.75	-1.90	5.52	-8.05	18.83	-146.69	28.12
2932	1	0.21	0.34	0.83	6.86	0.06	0.49	15.71	-70.67	15.00	5.12
2932	2	0.79	0.34	0.96	6.86	0.03	0.50	15.87	-72.52	13.24	5.77
2932	3	0.79	1.28	4.10	22.35	0.12	0.38	17.14	-64.72	11.14	13.30
2932	4	0.21	1.28	3.81	22.10	0.10	0.32	16.89	-57.47	11.45	10.16
2933	1	0.21	0.29	-3.24	-14.08	0.06	0.42	13.34	-78.97	15.89	3.57
2933	2	0.79	0.29	-3.19	-14.08	0.05	-0.04	13.31	-79.57	15.49	4.14
2933	3	0.79	1.09	-0.96	-2.86	0.01	0.10	14.83	-74.86	14.47	5.31
2933	4	0.21	1.09	-1.04	-2.88	0.05	-0.31	14.67	-75.02	15.10	4.53
2934	1	0.21	0.32	-5.40	-25.09	0.05	0.42	5.00	-84.58	16.79	2.17
2934	2	0.79	0.32	-5.38	-25.08	0.05	-0.27	5.00	-85.28	16.92	2.48
2934	3	0.79	1.19	-4.38	-20.07	0.04	-0.42	6.55	-82.26	16.16	3.55
2934	4	0.21	1.19	-4.41	-20.07	0.05	0.42	6.51	-81.44	16.32	3.07
2935	1	0.21	0.28	-5.20	-24.19	0.04	0.03	-3.21	-87.91	17.08	0.51
2935	2	0.79	0.28	-5.19	-24.18	0.03	0.04	-3.22	-88.70	17.37	0.51
2935	3	0.79	1.06	-5.59	-26.13	0.03	-0.26	-1.83	-86.96	17.22	1.64
2935	4	0.21	1.06	-5.60	-26.14	0.04	0.27	-1.84	-86.26	17.09	1.46
2936	1	0.30	0.21	-0.13	-1.10	0.64	-0.53	1.27	28.14	-364.41	15.15
2936	2	1.10	0.21	-0.04	-1.35	0.47	-0.06	-0.89	-11.26	-299.41	-29.38
2936	3	1.10	0.79	-0.14	-1.10	0.33	0.13	-0.40	9.81	-312.74	-13.72
2936	4	0.30	0.79	-0.08	-0.83	0.45	-0.94	1.22	20.14	-341.33	1.04
2937	1	0.23	0.21	1.72	-0.34	0.24	-2.50	1.47	-12.78	-330.91	55.18
2937	2	0.86	0.21	0.37	-0.84	0.46	-1.92	0.13	32.09	-363.51	4.59
2937	3	0.86	0.79	0.68	-0.60	0.38	-2.32	-0.41	13.21	-340.25	20.70
2937	4	0.23	0.79	2.02	-0.31	0.08	-2.41	1.10	5.13	-336.12	31.97
2938	1	0.09	0.21	-2.33	-0.01	-0.06	-3.08	0.78	7.41	-287.81	-15.77
2938	2	0.33	0.21	-3.05	-0.18	-0.02	-3.43	0.36	0.45	-296.64	-20.86
2938	3	0.33	0.79	-3.56	-0.09	-0.11	-3.01	0.49	-6.00	-306.89	-21.03
2938	4	0.09	0.79	-2.85	0.06	-0.18	-2.70	0.36	-5.32	-308.79	-30.48
2939	1	0.09	0.21	4.20	0.99	-0.12	-3.34	-2.25	-3.29	-276.57	11.58
2939	2	0.35	0.21	3.59	0.88	-0.15	-2.83	-0.94	-3.05	-292.37	19.89
2939	3	0.35	0.79	3.95	0.29	-0.31	-1.60	1.91	-3.42	-301.02	14.17
2939	4	0.09	0.79	4.34	0.45	-0.28	-1.79	-2.78	-4.37	-293.78	8.20
2940	1	0.09	0.21	-4.48	-1.61	-0.20	0.06	-0.34	-6.64	-260.31	-5.60
2940	2	0.33	0.21	-4.47	-1.57	-0.20	-0.43	3.07	-8.79	-260.67	0.64
2940	3	0.33	0.79	-4.08	-0.75	-0.27	1.20	3.72	-6.10	-274.70	3.31
2940	4	0.09	0.79	-4.39	-0.77	-0.29	1.27	-0.66	-5.70	-286.74	-3.42
2941	1	0.09	0.21	3.28	1.55	-0.21	3.58	-2.01	-12.64	-252.65	-6.95
2941	2	0.32	0.21	4.17	1.74	-0.13	3.77	-0.31	-10.01	-256.42	-4.30
2941	3	0.32	0.79	3.64	0.89	-0.15	3.98	-0.09	-5.16	-266.47	-7.44
2941	4	0.09	0.79	2.74	0.69	-0.20	3.89	-2.39	-5.74	-256.62	-10.15
2942	1	0.13	0.21	1.04	1.12	-0.03	3.93	-2.32	-19.09	-247.20	0.70

2942	2	0.47	0.21	2.43	1.43	-0.12	4.25	-1.72	-14.98	-250.86	-7.39	2956	4	0.18	0.79	-25.78	-4.54	-0.78	4.13	0.42	47.12	-135.70	-0.15
2942	3	0.47	0.79	1.90	0.49	-0.07	4.51	-1.92	-5.38	-246.86	-10.03	2957	1	0.21	0.21	-28.39	-5.51	-1.78	5.46	-6.67	25.40	-186.54	14.39
2942	4	0.13	0.79	0.44	0.08	0.11	4.51	-2.56	-6.50	-227.99	-4.58	2957	2	0.78	0.21	-26.28	-4.61	-2.69	4.21	2.97	40.96	-202.81	15.30
2943	1	0.18	0.21	-22.13	-4.42	-1.96	6.19	-0.07	34.41	-144.10	40.55	2957	3	0.78	0.79	-26.74	-4.27	-1.82	3.86	4.12	37.26	-201.56	-0.40
2943	2	0.67	0.21	-19.86	-3.66	-3.54	3.13	-4.10	41.06	-162.53	33.46	2957	4	0.21	0.79	-28.56	-5.30	-1.30	5.17	-3.84	24.87	-184.11	4.02
2943	3	0.67	0.79	-22.82	-3.59	-2.79	3.19	-5.09	65.18	-151.74	21.05	2958	1	0.21	0.34	1.33	6.93	0.16	0.18	16.13	-74.93	10.18	9.66
2943	4	0.18	0.79	-24.05	-4.55	-1.75	4.20	-1.07	51.46	-139.85	26.89	2958	2	0.79	0.34	1.32	6.96	0.23	0.53	16.18	-75.67	10.79	11.67
2944	1	0.21	0.21	-27.58	-5.28	-2.15	5.60	-8.71	21.66	-164.97	28.22	2958	3	0.79	1.28	4.62	23.05	0.17	-0.48	18.43	-79.31	10.39	9.79
2944	2	0.78	0.21	-24.20	-4.64	-3.36	5.02	3.11	27.49	-200.28	39.88	2958	4	0.21	1.28	4.63	23.00	0.18	-0.33	18.51	-80.04	10.24	12.03
2944	3	0.78	0.79	-25.54	-4.62	-3.17	4.71	4.93	38.29	-203.49	28.77	2959	1	0.21	0.29	-3.06	-14.05	0.11	0.49	13.49	-81.59	14.76	-6.98
2944	4	0.21	0.79	-28.08	-5.47	-2.12	5.51	-7.83	24.99	-179.86	22.00	2959	2	0.79	0.29	-3.06	-14.02	0.15	-0.10	13.49	-82.95	15.22	8.38
2945	1	0.21	0.34	1.11	6.89	0.04	0.53	15.92	-72.50	12.18	6.61	2959	3	0.79	1.09	-0.73	-2.78	0.15	-0.58	14.91	-79.51	13.09	10.27
2945	2	0.79	0.34	1.25	6.90	0.09	0.75	16.15	-74.41	10.51	8.26	2959	4	0.21	1.09	-0.73	-2.80	0.08	0.10	14.93	-78.16	12.62	8.55
2945	3	0.79	1.28	4.57	22.87	0.15	0.22	18.07	-77.75	10.33	13.11	2960	1	0.21	0.32	-5.34	-25.05	0.07	0.49	5.01	-87.78	17.38	3.74
2945	4	0.21	1.28	4.26	22.56	0.13	0.45	17.87	-70.57	10.69	14.11	2960	2	0.79	0.32	-5.33	-25.03	0.07	-0.30	5.02	-89.23	17.68	4.34
2946	1	0.21	0.29	-3.14	-14.08	0.06	0.51	13.45	-79.94	15.06	4.79	2960	3	0.79	1.19	-4.30	-20.02	0.09	-0.34	6.57	-85.82	16.51	6.70
2946	2	0.79	0.29	-3.09	-14.06	0.08	-0.01	13.41	-80.82	14.77	5.96	2960	4	0.21	1.19	-4.30	-20.05	0.07	0.23	6.56	-84.43	16.09	5.67
2946	3	0.79	1.09	-0.78	-2.82	0.05	-0.31	14.94	-76.89	12.89	7.42	2961	1	0.21	0.28	-5.17	-24.14	0.03	0.05	-3.21	-91.36	18.04	0.56
2946	4	0.21	1.09	-0.87	-2.85	0.01	-0.06	14.78	-76.89	13.42	6.06	2961	2	0.79	0.28	-5.16	-24.11	0.02	0.05	-3.20	-92.79	18.39	0.58
2947	1	0.21	0.32	-5.37	-25.07	0.05	0.47	5.01	-85.88	16.97	2.79	2961	3	0.79	1.06	-5.55	-26.07	0.04	-0.26	-1.83	-91.08	18.15	2.68
2947	2	0.79	0.32	-5.35	-25.06	0.06	-0.28	5.01	-86.89	17.13	3.32	2961	4	0.21	1.06	-5.56	-26.10	0.04	0.27	-1.83	-89.61	17.79	2.37
2947	3	0.79	1.19	-4.32	-20.06	0.05	-0.36	6.58	-83.71	15.96	4.93	2962	1	0.36	0.08	2.27	0.04	-0.22	-3.25	-0.95	-45.08	20.95	-15.15
2947	4	0.21	1.19	-4.35	-20.06	0.04	0.33	6.53	-82.56	16.07	4.06	2962	2	1.35	0.08	-0.23	-0.20	0.06	-3.77	1.66	-44.37	-28.16	15.13
2948	1	0.21	0.28	-5.18	-24.17	0.03	0.05	-3.21	-89.36	17.55	0.52	2962	3	1.35	0.32	0.31	0.24	-0.09	0.78	0.30	-40.05	-27.88	-15.30
2948	2	0.79	0.28	-5.17	-24.15	0.03	0.05	-3.21	-90.44	17.82	0.53	2962	4	0.36	0.32	1.92	-0.04	-0.20	-2.05	-0.24	-39.08	20.95	14.93
2948	3	0.79	1.06	-5.56	-26.11	0.03	-0.27	-1.82	-88.68	17.58	2.10	2963	1	0.32	0.08	5.10	0.04	-0.13	-3.29	-0.59	-46.62	10.75	-11.02
2948	4	0.21	1.06	-5.58	-26.12	0.03	0.27	-1.84	-87.68	17.36	1.82	2963	2	1.19	0.08	3.33	-0.07	-0.11	-2.86	0.07	-45.90	-17.73	15.29
2949	1	0.30	0.25	-0.09	-0.72	0.50	-0.97	0.03	0.05	-326.21	-0.19	2963	3	1.19	0.32	3.62	-0.11	-0.07	0.34	0.81	-38.30	-17.75	-15.50
2949	2	1.10	0.37	-0.50	-0.57	0.22	0.50	0.40	0.18	-319.36	-4.97	2963	4	0.32	0.32	4.92	0.01	-0.18	-1.27	0.03	-37.44	10.79	10.82
2949	3	1.10	0.95	-1.52	-0.28	0.55	-0.40	-2.95	-11.18	-283.86	10.43	2964	1	0.28	0.08	-5.99	0.08	-0.15	-2.18	-0.39	-46.62	-7.61	-10.34
2949	4	0.30	0.83	0.21	-0.45	0.59	-2.85	1.14	-5.59	-319.59	6.31	2964	2	1.06	0.08	-7.23	-0.07	-0.11	-3.12	0.45	-45.37	1.72	9.34
2950	1	0.23	0.21	2.31	-0.29	0.07	-2.71	1.01	7.76	-327.62	20.17	2964	3	1.06	0.32	-7.21	-0.06	-0.13	-0.79	0.03	-38.78	1.73	-9.72
2950	2	0.86	0.21	0.87	-0.56	0.41	-1.84	0.56	2.97	-330.64	22.30	2964	4	0.28	0.32	-6.11	0.04	-0.10	0.09	-0.08	-37.56	-7.56	9.99
2950	3	0.86	0.79	1.00	-0.35	0.41	-1.09	0.64	-2.90	-326.28	11.89	2965	1	0.36	0.08	0.14	-0.01	-0.15	-4.47	-0.58	-53.15	13.24	-10.00
2950	4	0.23	0.79	2.67	-0.28	0.24	-2.53	0.91	-5.10	-324.58	19.24	2965	2	1.35	0.08	-3.69	0.06	0.65	-4.28	3.50	-51.83	-15.10	11.76
2951	1	0.09	0.21	-3.23	0.16	-0.20	-2.71	0.36	-4.41	-329.03	-27.72	2965	3	1.35	0.32	-3.36	0.31	-0.65	-1.75	-2.49	-52.59	-21.64	-12.07
2951	2	0.33	0.21	-3.94	0.04	-0.09	-3.10	0.92	-2.37	-319.75	-19.92	2965	4	0.36	0.32	-0.08	-0.06	-0.08	-3.88	0.02	-51.00	13.35	9.64
2951	3	0.33	0.79	-4.36	0.18	0.00	-2.73	-0.03	-7.17	-329.25	-17.82	2966	1	0.32	0.08	4.75	0.08	-0.06	-3.87	-0.43	-55.65	6.97	-7.33
2951	4	0.09	0.79	-3.65	0.30	-0.02	-3.00	0.95	-6.31	-327.58	-19.37	2966	2	1.19	0.08	2.19	-0.15	-0.21	-3.11	-0.69	-54.39	-12.30	9.24
2952	1	0.09	0.21	4.41	0.10	-0.24	-0.25	-2.65	-7.26	-305.94	8.99	2966	3	1.19	0.32	2.38	-0.17	0.12	-1.41	1.07	-49.93	-10.39	-9.60
2952	2	0.35	0.21	4.27	0.17	-0.26	-0.09	0.35	-7.46	-315.13	16.85	2966	4	0.32	0.32	4.64	0.06	-0.10	-2.70	0.20	-48.53	6.93	6.98
2952	3	0.35	0.79	4.58	-0.42	-0.14	0.83	0.17	-7.46	-328.24	16.10	2967	1	0.28	0.08	-6.16	0.07	-0.04	-2.11	-0.54	-56.04	-4.52	-6.99
2952	4	0.09	0.79	4.42	-0.36	-0.12	0.75	-1.72	-6.58	-320.94	11.70	2967	2	1.06	0.08	-7.79	-0.08	-0.04	-3.17	0.37	-55.33	0.74	6.17
2953	1	0.09	0.21	-4.25	-0.31	-0.25	2.42	-1.10	-5.14	-297.91	-3.29	2967	3	1.06	0.32	-7.78	-0.07	-0.07	-1.82	-0.09	-49.02	0.91	-6.40
2953	2	0.33	0.21	-3.68	-0.17	-0.25	2.65	3.21	-4.63	-285.28	2.66	2967	4	0.28	0.32	-6.24	0.04	-0.10	-1.05	0.34	-48.34	-4.99	6.79
2953	3	0.33	0.79	-3.12	0.49	-0.10	4.09	1.93	-2.17	-297.71	-2.32	2968	1	0.36	0.08	-0.84	0.04	-0.14	-2.56	-1.01	-39.32	26.55	-19.33
2953	4	0.09	0.79	-4.03	0.34	-0.11	4.19	0.51	-4.47	-312.86	-7.56	2968	2	1.35	0.08	-3.80	-0.17	0.73	-2.99	2.96	-37.24	-31.59	17.76
2954	1	0.09	0.21	2.23	0.10	-0.10	4.28	-2.16	-1.30	-258.52	-9.22	2968	3	1.35	0.32	-3.35	0.21	-0.49	-1.08	-1.37	-48.59	-38.97	-18.24
2954	2	0.32	0.21	3.12	0.31	-0.10	4.07	-0.52	-2.48	-274.70	-6.19	2968	4	0.36	0.32	-1.14	-0.03	0.00	-3.81	0.16	-46.23	26.70	18.78
2954	3	0.32	0.79	2.45	-0.37	0.04	4.19	-1.49	2.11	-284.35	-1.01	2969	1	0.32	0.08	2.80	0.10	-0.05	-2.67	-0.60	-43.58	13.53	-14.19
2954	4	0.09	0.79	1.58	-0.60	0.15	3.98	-1.45	4.69	-263.63	-3.94	2969	2	1.19	0.08	0.61	-0.18	-0.06	-2.31	-0.41	-41.26	-23.53	19.58
2955	1	0.13	0.21	-0.04	-0.57	0.26	4.94	-1.78	-0.65	-219.20	-4.94	2969	3	1.19	0.32	0.87	-0.21	0.14	-1.21	0.99	-44.46	-21.38	-20.22
2955	2	0.47	0.21	1.40	-0.15	0.07	4.22	-1.82	-0.73	-244.16	-9.39	2969	4	0.32	0.32	2.63	0.07	-0.02	-2.89	0.37	-42.01	13.48	13.57
2955	3	0.47	0.79	0.85	-0.81	0.28	4.04	-1.70	7.70	-243.84	-5.18	2970	1	0.28	0.08	-3.98	0.11	0.05	-1.71	-0.44	-44.63	-9.22	-12.84
2955	4	0.13	0.79	-0.46	-1.19	0.42	4.23	-1.23	9.74	-209.26	-4.49	2970	2	1.06	0.08	-5.59	-0.09	-0.03	-2.54	0.33	-44.76	1.94	12.22
2956	1	0.18	0.21	-25.07	-4.54	-1.41	4.06	1.18	52.80	-136.75	13.84	2970	3	1.06	0.32	-5.56	-0.07	0.01	-2.30	-0.29	-40.96	2.13	-12.21
2956	2	0.67	0.21	-24.16	-3.45	-1.90	3.00	-1.07	66.97	-145.47	9.67	2970	4	0.28	0.32	-4.11	0.07	-0.05	-1.31	0.35	-41.11	-9.78	12.90
2956	3	0.67	0.79	-24.71	-3.36	-0.77	3.18	-1.97	55.34	-142.69	0.70	2971	1	0.17	0.12	20.49	-0.61	0.48	-7.26	1.19	-11.37	0.56	-164.98

2971	2	0.62	0.12	15.15	0.69	0.59	-7.98	-0.46	-15.70	-17.26	-139.24
2971	3	0.53	0.45	16.34	0.62	1.88	-8.67	-0.62	-22.46	-35.60	-137.13
2971	4	0.14	0.44	21.09	-0.35	1.74	-7.95	3.64	-4.56	-3.33	-152.96
2972	1	0.12	0.12	11.13	1.32	0.57	-8.56	0.47	-17.33	-37.57	-105.57
2972	2	0.58	0.13	6.49	1.78	0.60	-7.04	-1.25	-10.90	-81.26	-61.22
2972	3	0.37	0.50	8.31	1.59	1.47	-7.11	-2.19	-40.24	-92.08	-82.23
2972	4	-0.02	0.47	12.60	1.17	1.77	-9.61	0.95	-37.26	-60.75	-116.23
2973	1	0.08	0.14	3.75	1.72	0.60	-7.04	-0.30	-4.88	-111.99	-31.90
2973	2	0.53	0.16	0.89	1.31	0.58	-5.17	-2.51	-0.06	-153.58	-5.16
2973	3	0.19	0.59	2.64	1.26	0.85	-5.87	-0.97	-35.38	-153.18	-33.65
2973	4	-0.18	0.53	5.49	1.49	1.17	-7.99	-1.30	-42.09	-121.22	-60.18
2974	1	0.13	0.12	21.67	0.12	2.17	-7.15	5.73	-2.37	6.63	-132.45
2974	2	0.47	0.12	17.21	0.94	2.30	-9.80	1.93	-43.09	-32.55	-123.29
2974	3	0.39	0.45	19.32	0.99	3.06	-17.27	-0.28	-80.17	-20.59	-58.97
2974	4	0.12	0.44	23.96	0.48	1.78	-23.99	4.56	19.96	2.57	-54.04
2975	1	0.10	0.13	13.97	1.04	1.19	-10.40	2.24	-81.20	-38.70	-111.48
2975	2	0.43	0.14	9.68	1.26	1.15	-10.66	-0.72	-95.64	-80.28	-98.63
2975	3	0.27	0.53	11.57	1.14	2.64	-9.72	-2.27	-190.42	-51.82	-85.66
2975	4	0.00	0.48	16.30	0.88	2.32	-14.17	0.96	-143.64	-23.65	-64.41
2976	1	0.06	0.16	7.22	1.09	0.50	-9.57	-0.05	-104.99	-93.39	-87.14
2976	2	0.39	0.18	4.12	0.77	0.47	-8.78	-2.63	-96.50	-133.68	-73.91
2976	3	0.14	0.67	5.48	0.82	1.44	-6.92	-2.54	-220.02	-98.78	-119.80
2976	4	-0.12	0.59	8.99	0.88	1.81	-8.99	-1.31	-219.95	-61.45	-92.70
2977	1	0.16	0.12	-23.83	1.46	0.29	-4.80	-0.65	-5.50	2.48	161.77
2977	2	0.61	0.12	-26.37	2.09	-0.06	-2.74	-1.02	5.57	-13.02	130.12
2977	3	0.52	0.45	-26.92	2.11	0.34	-3.84	-3.58	34.65	22.24	124.20
2977	4	0.14	0.44	-24.14	1.26	1.28	-6.96	-1.84	17.55	12.91	151.22
2978	1	0.12	0.12	-26.90	1.87	-0.35	-0.92	-0.18	17.64	-39.63	92.97
2978	2	0.57	0.13	-26.24	0.58	-0.50	-0.55	-1.85	34.23	-82.12	49.49
2978	3	0.36	0.50	-27.41	1.71	-2.25	-3.35	1.40	68.62	-29.52	51.52
2978	4	-0.01	0.47	-27.53	2.28	-0.74	-4.51	-1.98	54.40	12.03	96.10
2979	1	0.08	0.14	-25.48	-0.24	-0.51	0.52	-0.86	44.08	-113.05	26.05
2979	2	0.52	0.16	-24.63	-1.53	-0.65	-0.66	1.61	51.57	-143.74	7.19
2979	3	0.19	0.58	-25.30	-1.77	-3.01	-8.54	-3.96	96.04	-104.10	17.15
2979	4	-0.18	0.53	-26.17	0.64	-2.71	-7.86	-0.61	84.75	-62.49	31.66
2980	1	0.13	0.12	-24.28	0.15	3.72	-4.23	-5.15	50.61	7.08	132.00
2980	2	0.46	0.12	-27.15	1.50	3.15	1.01	-6.66	85.47	33.54	116.09
2980	3	0.39	0.45	-28.97	0.20	0.55	-35.09	-9.28	196.70	25.99	69.74
2980	4	0.12	0.44	-26.29	-0.42	2.51	-29.58	-3.93	106.09	5.14	54.59
2981	1	0.10	0.13	-28.02	1.75	4.68	6.32	-5.16	110.45	21.41	90.33
2981	2	0.43	0.14	-28.44	2.90	3.57	10.61	-4.21	121.34	12.76	54.80
2981	3	0.27	0.53	-30.09	0.92	-0.99	-39.93	-12.71	266.28	36.68	83.37
2981	4	0.00	0.48	-29.75	0.45	1.20	-39.08	-10.14	249.79	28.96	70.47
2982	1	0.06	0.16	-27.72	2.54	4.58	16.91	-0.46	119.13	-18.68	11.53
2982	2	0.39	0.18	-26.46	2.70	3.01	15.12	7.92	118.49	-63.08	-19.57
2982	3	0.14	0.66	-28.24	2.10	-2.25	-33.82	-18.07	225.59	21.82	60.88
2982	4	-0.11	0.59	-29.74	1.82	-0.03	-40.25	-13.74	267.35	33.28	68.61
2983	1	0.36	0.12	-2.62	-24.95	1.58	-0.12	2.96	-147.44	69.47	-5.39
2983	2	0.90	0.10	-2.73	-23.57	3.03	2.56	0.45	-150.31	105.32	-14.70
2983	3	1.21	0.37	-1.92	-23.18	4.39	-2.08	2.60	-127.19	132.15	-26.81
2983	4	0.76	0.46	-1.25	-23.15	2.48	-2.25	4.00	-123.42	102.07	-10.38
2984	1	0.30	0.09	-2.70	-22.08	4.27	1.35	5.54	-154.74	115.31	-35.73
2984	2	0.85	0.07	-3.38	-18.78	5.49	4.37	3.27	-168.26	83.92	-60.12
2984	3	1.01	0.27	-3.67	-16.93	7.38	5.02	5.69	-162.30	74.89	-55.28
2984	4	0.54	0.32	-1.60	-21.20	5.45	2.72	0.52	-143.41	114.79	-39.68
2985	1	0.25	0.07	-4.98	-14.97	5.44	4.03	6.87	-190.30	39.75	-64.24
2985	2	0.80	0.06	-6.36	-10.71	2.73	-2.30	9.60	-221.97	-23.71	-59.22
2985	3	0.83	0.22	-7.66	-7.52	3.08	-1.10	9.91	-254.91	-26.88	-41.51
2985	4	0.35	0.24	-5.58	-11.51	6.74	3.30	8.29	-199.17	19.68	-46.58
2986	1	0.27	0.16	-3.70	-22.80	11.75	12.65	-5.18	-55.19	114.72	-77.29
2986	2	0.66	0.13	-4.88	-18.58	13.17	16.60	0.85	-68.20	99.61	-93.20
2986	3	0.89	0.47	-9.15	-11.36	11.80	-41.45	17.14	32.66	64.28	-64.48
2986	4	0.57	0.59	-6.18	-17.05	12.94	-30.34	21.65	81.40	105.19	-99.48
2987	1	0.24	0.10	-4.88	-17.44	12.58	13.91	8.71	-92.92	91.71	-78.46
2987	2	0.65	0.08	-7.54	-10.35	10.89	3.50	7.27	-136.07	26.87	-67.58
2987	3	0.78	0.30	-10.46	-3.33	7.02	-41.10	12.23	-159.22	-3.24	-5.24
2987	4	0.44	0.37	-8.35	-8.58	10.17	-42.59	17.11	-36.81	34.81	-29.20
2988	1	0.20	0.07	-7.71	-7.80	7.68	1.54	12.52	-206.52	5.69	-33.41
2988	2	0.62	0.06	-9.25	-4.18	2.62	-2.12	9.74	-284.85	-28.33	-40.12
2988	3	0.64	0.23	-9.86	-0.64	0.75	-11.20	4.73	-357.52	-15.76	-12.31
2988	4	0.29	0.25	-9.71	-3.25	5.15	-32.29	11.52	-238.28	1.39	21.11
2989	1	0.20	0.06	-6.32	-10.54	-1.12	2.23	9.58	-244.05	-49.81	-58.07
2989	2	0.75	0.07	-4.82	-14.55	-4.01	-4.59	7.17	-234.24	-59.76	-48.17
2989	3	0.65	0.24	-5.52	-10.98	-5.36	-3.66	8.61	-273.25	-61.07	-61.25
2989	4	0.17	0.22	-7.60	-7.29	-1.51	0.96	10.02	-284.94	-44.21	-57.17
2990	1	0.15	0.07	-3.14	-18.38	-4.25	-4.92	3.39	-206.67	-47.57	-33.93
2990	2	0.70	0.09	-2.48	-21.84	-3.19	-2.29	5.46	-181.20	-17.11	-18.27
2990	3	0.46	0.32	-1.43	-20.83	-4.51	-3.36	0.55	-204.20	-39.05	-39.98
2990	4	-0.01	0.27	-3.50	-16.38	-6.20	-5.43	6.00	-243.18	-62.56	-56.14
2991	1	0.10	0.10	-2.60	-23.48	-2.06	-3.52	0.00	-163.07	6.77	-8.53
2991	2	0.64	0.12	-2.63	-25.05	-0.70	-0.64	2.59	-147.98	34.67	-2.93
2991	3	0.24	0.46	-1.19	-23.18	-1.71	1.50	3.60	-157.40	7.41	-22.90
2991	4	-0.21	0.37	-1.77	-22.98	-3.55	1.17	2.49	-179.61	-18.70	-29.84
2992	1	0.16	0.06	-9.06	-4.18	-1.07	1.18	9.84	-320.32	-31.92	-34.94
2992	2	0.58	0.07	-7.48	-7.33	-6.24	-2.03	12.65	-323.29	-51.02	-60.28
2992	3	0.49	0.25	-9.24	-2.98	-4.40	25.00	10.67	-409.81	-29.63	-76.18
2992	4	0.14	0.23	-9.66	-0.64	-0.02	2.48	4.59	-402.69	-9.40	-13.54
2993	1	0.12	0.08	-7.10	-10.02	-9.58	-3.35	7.61	-297.57	-51.01	-44.51
2993	2	0.53	0.10	-4.47	-17.08	-11.53	-13.95	9.28	-244.51	-45.85	-41.06
2993	3	0.33	0.37	-7.76	-8.17	-9.43	38.94	16.32	-317.33	-52.53	-105.23
2993	4	-0.01	0.30	-9.80	-3.02	-6.24	35.50	11.45	-397.02	-33.89	-74.35
2994	1	0.07	0.13	-4.38	-18.54	-12.35	-16.61	1.09	-211.72	-29.65	-11.58
2994	2	0.46	0.16	-3.33	-23.00	-11.14	-13.21	-5.10	-172.38	-9.23	-2.70
2994	3	0.16	0.59	-5.79	-16.91	-12.52	28.73	21.34	-204.84	-51.89	-80.45
2994	4	-0.16	0.47	-8.53	-11.07	-11.18	38.79	16.72	-283.52	-45.56	-83.58
2995	1	0.29	0.16	-24.85	-1.63	-0.15	0.17	2.46	42.33	-139.14	5.61
2995	2	0.74	0.14	-25.91	-0.37	-0.14	-0.96	-0.50	37.43	-117.40	17.56
2995	3	1.00	0.53	-26.54	0.58	2.18	7.40	-0.01	7.31	-116.57	38.29
2995	4	0.63	0.58	-25.45	-1.78	2.31	8.29	-3.56	15.59	-140.20	23.05
2996	1	0.25	0.13	-26.86	0.46	-0.06	-0.17	-1.26	29.66	-93.78	31.71
2996	2	0.69	0.12	-27.86	1.77	-0.05	0.39	0.20	17.48	-51.27	51.35
2996	3	0.83	0.47	-28.46	2.25	0.47	3.97	-1.58	-0.60	-54.63	63.06
2996	4	0.45	0.50	-28.01	1.64	1.85	2.93	2.04	4.38	-89.19	48.75
2997	1	0.20	0.12	-27.61	2.04	-0.25	2.06	-0.57	12.23	-24.67	67.09
2997	2	0.65	0.12	-25.42	1.48	-0.47	4.37	-0.40	7.49	3.17	80.13
2997	3	0.68	0.44	-25.66	1.28	-1.40	6.47	-1.85	8.15	0.78	77.76
2997	4	0.29	0.45	-28.14	2.11	-0.52	3.22	-3.19	1.98	-27.94	71.40
2998	1	0.22	0.18	-26.32	2.48	-2.54	-15.91	8.76	-38.01	-121.75	66.81
2998	2	0.54	0.16	-27.88	2.38	-5.03	-17.97	0.19	-44.47	-86.33	71.31
2998	3	0.72	0.59	-29.90	1.83	-0.15	39.66	-13.24	-125.57	-47.31	64.49
2998	4	0.46	0.66	-27.98	2.09	1.97	33.07	-17.10	-137.07	-80.76	90.47
2999	1	0.19	0.14	-28.94	2.84	-3.94	-11.65	-3.52	-38.87	-69.90	67.61
2999	2	0.52	0.13	-28.90	1.72	-5.00	-7.59	-4.89	-33.27	-32.55	66.42
2999	3	0.62	0.48	-30.71	0.46	-1.30	39.01	-10.10	-66.44	-13.55	35.95
2999	4	0.35	0.53	-30.59	0.96	0.88	39.66	-12.42	-99.69	-36.46	53.37
3000	1	0.16	0.12	-28.34	1.50	-3.36	-2.02	-6.43	-11.64	-21.75	65.83

3000	2	0.50	0.12	-25.77	0.12	-3.90	3.40	-5.28	0.87	5.80	68.82	3014	4	-0.01	0.28	2.23	1.09	0.35	-2.17	-3.55	-290.28	-85.99	-74.45
3000	3	0.51	0.44	-27.88	-0.46	-2.59	29.30	-4.17	23.38	2.60	28.40	3015	1	0.10	0.10	0.09	0.81	-0.30	-2.87	-5.65	-201.09	-37.83	-9.17
3000	4	0.23	0.45	-30.22	0.18	-0.57	34.94	-9.26	-30.62	-11.66	30.73	3015	2	0.64	0.13	-0.84	0.10	-0.55	-1.48	-6.13	-177.35	-9.44	0.60
3001	1	0.17	0.12	-22.26	0.65	-0.58	6.83	-1.04	6.36	13.27	79.95	3015	3	0.23	0.47	-0.69	-1.26	-0.58	-2.20	-5.49	-178.52	-41.85	-28.70
3001	2	0.62	0.12	-17.03	-0.67	-0.50	7.99	0.51	5.43	9.50	66.06	3015	4	-0.21	0.38	0.16	-0.28	-0.32	-3.22	-5.53	-212.15	-66.52	-39.71
3001	3	0.53	0.45	-18.11	-0.71	-1.90	8.42	0.51	20.83	25.70	67.94	3016	1	0.16	0.06	3.14	0.60	-0.20	1.55	-1.61	-370.74	-35.45	-47.37
3001	4	0.14	0.44	-22.78	0.35	-1.83	7.47	-3.52	16.52	16.04	79.00	3016	2	0.58	0.07	3.09	0.61	0.23	-0.79	-2.02	-371.03	-60.77	-74.40
3002	1	0.12	0.12	-13.00	-1.38	-0.31	8.27	-0.68	6.93	-10.02	47.50	3016	3	0.49	0.26	3.28	0.14	0.41	0.46	-0.60	-458.41	-35.98	-86.83
3002	2	0.58	0.13	-8.25	-1.98	-0.04	7.29	0.85	13.25	-55.07	24.67	3016	4	0.14	0.24	3.29	0.15	-0.11	3.94	-0.74	-436.65	-9.27	-18.23
3002	3	0.37	0.50	-9.92	-2.08	-1.24	6.75	1.86	29.26	-14.10	28.05	3017	1	0.12	0.08	2.40	0.60	0.16	-2.88	-2.47	-349.36	-63.35	-59.17
3002	4	-0.02	0.47	-14.32	-1.40	-1.71	9.07	-1.02	26.87	20.87	54.75	3017	2	0.53	0.10	1.15	0.03	-0.18	-4.43	-3.64	-291.74	-74.52	-60.38
3003	1	0.08	0.14	-5.47	-2.05	0.19	6.49	-0.86	17.63	-97.47	11.29	3017	3	0.32	0.38	1.23	-0.12	0.17	-2.73	-2.37	-372.09	-67.35	-126.97
3003	2	0.53	0.16	-2.55	-1.94	0.41	4.97	0.71	20.63	-156.50	1.59	3017	4	-0.01	0.31	2.75	0.26	0.40	-1.25	-0.54	-450.83	-37.99	-86.95
3003	3	0.19	0.59	-4.14	-2.33	-0.22	4.72	0.44	43.92	-102.62	7.34	3018	1	0.07	0.13	0.05	-0.56	-0.65	-5.36	-4.57	-256.02	-64.91	-32.20
3003	4	-0.18	0.53	-7.04	-2.24	-0.77	7.27	0.89	38.74	-47.44	16.68	3018	2	0.46	0.16	-1.21	-1.97	-1.19	-5.23	-6.46	-205.47	-54.48	-24.96
3004	1	0.13	0.12	-23.33	-0.16	-2.21	6.74	-5.88	36.93	9.58	70.85	3018	3	0.16	0.60	-1.75	-1.94	-1.71	-5.13	-4.06	-258.76	-88.54	-117.64
3004	2	0.47	0.12	-18.94	-1.05	-2.31	9.46	-2.05	53.28	28.00	66.90	3018	4	-0.16	0.48	0.02	-0.47	-0.47	-4.22	-2.21	-341.25	-66.99	-109.68
3004	3	0.39	0.45	-21.17	-1.09	-3.22	16.56	0.07	120.08	17.73	42.30	3019	1	0.13	0.21	-0.59	-1.58	0.53	3.96	-0.36	20.39	-207.60	-0.04
3004	4	0.12	0.44	-25.72	-0.52	-1.82	23.41	-4.70	68.88	3.87	29.52	3019	2	0.47	0.21	0.57	-1.24	0.45	3.38	-1.48	15.07	-245.96	0.97
3005	1	0.10	0.13	-15.67	-1.26	-1.12	10.59	-2.29	65.28	22.71	57.81	3019	3	0.47	0.79	0.54	-1.47	0.67	2.39	-0.89	26.28	-251.90	16.82
3005	2	0.43	0.14	-11.24	-1.77	-1.09	10.19	0.97	66.97	17.14	38.81	3019	4	0.13	0.79	-0.31	-1.75	0.64	3.40	0.68	38.58	-212.89	11.92
3005	3	0.27	0.53	-13.21	-1.39	-2.95	9.21	2.17	167.09	27.97	57.79	3020	1	0.09	0.21	1.21	-0.97	0.37	3.82	-0.93	10.69	-267.80	2.94
3005	4	0.00	0.48	-18.12	-0.96	-2.45	13.38	-1.07	153.13	20.22	45.63	3020	2	0.32	0.21	1.98	-0.80	0.17	3.74	-2.75	6.06	-291.50	6.03
3006	1	0.06	0.16	-8.54	-1.91	-0.37	9.33	0.08	60.75	-9.26	11.13	3020	3	0.32	0.79	1.60	-1.19	0.36	3.00	-3.98	11.58	-297.67	21.43
3006	2	0.39	0.18	-5.33	-2.11	-0.32	7.99	2.29	59.22	-53.76	-14.09	3020	4	0.09	0.79	1.01	-1.36	0.68	3.10	0.80	19.74	-273.72	19.57
3006	3	0.14	0.67	-6.79	-1.67	-2.01	6.50	3.20	150.04	20.56	47.34	3021	1	0.09	0.21	-3.81	0.76	0.04	4.97	1.29	-3.01	-320.94	-12.35
3006	4	-0.12	0.59	-10.54	-1.29	-2.16	8.47	1.43	173.42	28.97	51.18	3021	2	0.33	0.21	-2.69	1.00	0.05	5.10	0.52	0.75	-305.70	-8.74
3007	1	0.36	0.13	-1.88	-1.64	-0.43	-0.33	-4.74	-177.73	28.55	-1.57	3021	3	0.33	0.79	-2.30	1.36	0.33	6.04	-2.61	4.45	-311.41	-22.36
3007	2	0.90	0.10	-1.94	-0.98	-0.43	1.52	-3.74	-184.95	50.32	-11.46	3021	4	0.09	0.79	-3.61	1.13	0.34	5.85	3.33	-1.71	-325.30	-22.93
3007	3	1.21	0.38	-2.00	-1.55	-0.02	3.10	-4.00	-143.41	73.06	-18.04	3022	1	0.09	0.21	4.37	-0.70	0.02	2.14	-0.19	-7.79	-328.27	14.78
3007	4	0.77	0.47	-2.18	-2.76	-0.02	2.01	-4.83	-129.25	48.30	-5.14	3022	2	0.35	0.21	4.79	-0.53	0.00	2.17	-0.91	-9.19	-331.95	17.23
3008	1	0.30	0.09	-1.61	-0.27	-0.49	1.87	-3.20	-195.57	62.52	-29.16	3022	3	0.35	0.79	4.93	-0.74	0.33	3.12	-2.80	-10.84	-332.56	21.93
3008	2	0.85	0.08	-0.65	0.66	-0.59	3.18	-1.92	-216.96	53.85	-55.47	3022	4	0.09	0.79	4.29	-0.85	0.34	3.15	2.56	-7.56	-331.21	22.38
3008	3	1.01	0.28	-0.41	0.52	-0.51	4.16	-1.75	-194.75	56.60	-51.62	3023	1	0.09	0.21	-4.00	0.35	0.18	-2.19	0.34	-9.61	-326.58	-17.71
3008	4	0.54	0.33	-1.47	-0.48	-0.18	3.22	-3.41	-167.84	71.84	-29.42	3023	2	0.33	0.21	-4.72	0.26	0.10	-2.43	-1.43	-10.80	-332.19	-19.25
3009	1	0.25	0.07	0.52	1.19	-0.70	2.91	-2.42	-239.77	29.30	-69.61	3023	3	0.33	0.79	-4.94	0.21	0.32	-2.36	-2.95	-12.58	-331.68	-21.13
3009	2	0.80	0.06	2.12	1.47	-0.54	2.52	-2.07	-275.27	-25.13	-76.57	3023	4	0.09	0.79	-4.20	0.29	0.49	-2.39	2.13	-13.35	-326.02	-19.64
3009	3	0.83	0.24	2.27	0.99	-0.60	2.68	-1.26	-294.50	-26.79	-58.91	3024	1	0.23	0.21	2.80	-0.32	0.45	-3.18	1.35	-11.41	-323.94	18.50
3009	4	0.35	0.25	0.76	0.93	-0.70	3.18	-2.63	-236.11	17.72	-53.39	3024	2	0.86	0.21	1.04	-0.42	0.59	-2.35	-2.58	-6.78	-320.07	13.35
3010	1	0.27	0.16	-2.73	-3.19	0.91	3.85	-4.84	-65.64	61.59	-50.11	3024	3	0.86	0.79	1.25	-0.42	0.73	-2.26	0.56	-9.48	-310.80	10.51
3010	2	0.66	0.13	-2.08	-1.41	0.28	4.14	-2.94	-87.51	59.78	-69.42	3024	4	0.23	0.79	2.96	-0.29	0.72	-3.16	1.52	-12.09	-320.39	16.61
3010	3	0.89	0.48	-2.26	-0.70	0.73	6.91	-2.43	27.39	47.27	-51.21	3025	1	0.30	0.17	0.37	-0.19	0.57	0.41	2.45	-4.64	-316.23	9.27
3010	4	0.57	0.60	-3.50	-2.52	2.15	6.46	-3.62	64.42	69.26	-70.93	3025	2	1.10	0.05	-1.39	0.07	0.82	-3.50	1.89	-11.43	-292.81	-2.59
3011	1	0.24	0.10	-1.38	-0.43	-0.14	4.17	-2.02	-111.60	63.77	-65.12	3025	3	1.10	0.63	-0.51	-0.15	0.86	-0.93	-2.13	-7.37	-313.52	8.49
3011	2	0.65	0.08	-0.09	0.36	-0.63	3.94	-1.38	-158.36	20.65	-68.88	3025	4	0.30	0.75	0.29	-0.23	0.98	-0.43	0.19	-8.92	-310.85	7.52
3011	3	0.78	0.31	0.41	0.31	-0.43	7.93	-1.39	-149.97	1.41	-10.40	3026	1	0.18	0.21	-25.74	-4.47	-0.28	4.13	1.62	37.45	-136.86	-7.11
3011	4	0.44	0.38	-1.24	-0.21	0.16	6.69	-3.11	-33.02	26.25	-27.37	3026	2	0.67	0.21	-24.67	-3.30	0.03	3.23	1.85	41.00	-145.64	-2.43
3012	1	0.20	0.07	1.05	0.63	-0.79	3.51	-2.07	-228.86	7.66	-42.75	3026	3	0.67	0.79	-24.02	-3.27	1.13	2.99	0.77	16.30	-157.02	-0.23
3012	2	0.62	0.06	2.49	0.54	-0.53	2.87	-1.17	-312.73	-30.37	-55.53	3026	4	0.18	0.79	-24.95	-4.30	0.32	3.94	0.82	19.31	-142.76	-8.99
3012	3	0.63	0.24	2.74	0.13	-0.25	5.44	-0.15	-375.04	-17.04	-18.22	3027	1	0.21	0.21	-28.46	-4.91	-0.80	4.01	-2.23	23.60	-174.02	-1.04
3012	4	0.29	0.26	1.38	0.16	-0.55	7.06	-1.97	-236.05	1.51	15.87	3027	2	0.78	0.21	-26.70	-3.96	-1.12	3.73	2.10	31.10	-201.73	-9.90
3013	1	0.20	0.06	2.96	1.62	-0.08	0.93	-2.75	-295.67	-54.60	-75.98	3027	3	0.78	0.79	-26.20	-3.59	-0.34	4.02	3.06	20.01	-200.59	-12.24
3013	2	0.75	0.07	2.88	1.81	0.27	-0.89	-3.76	-285.20	-74.74	-65.21	3027	4	0.21	0.79	-28.11	-4.38	-0.38	4.61	-0.37	20.08	-159.01	-3.41
3013	3	0.65	0.25	2.94	1.07	0.31	-0.74	-2.79	-320.87	-73.90	-78.28	3028	1	0.21	0.34	1.25	6.98	0.30	-0.15	16.14	-76.72	11.87	13.08
3013	4	0.17	0.24	3.04	0.98	-0.07	1.33	-2.39	-329.41	-49.91	-73.12	3028	2	0.79	0.34	1.10	7.01	0.32	0.09	15.91	-76.67	14.25	14.79
3014	1	0.15	0.08	2.15	1.81	0.26	-1.93	-4.57	-257.37	-71.92	-48.59	3028	3	0.79	1.28	4.22	22.75	0.18	-1.02	17.97	-69.36	11.36	9.71
3014	2	0.70	0.09	0.97	1.33	-0.03	-2.59	-5.42	-223.90	-56.33	-25.47	3028	4	0.21	1.28	4.53	22.98	0.19	-1.05	18.12	-76.34	10.37	9.27
3014	3	0.46	0.33	1.12	0.51	0.04	-2.44	-5.74	-244.22	-75.52	-54.68	3029	1	0.21	0.29	-3.08	-14.00	0.17	0.39	13.42	-84.21	15.98	9.34

3029	2	0.79	0.29	-3.13	-13.96	0.19	-0.18	13.47	-86.04	16.94	10.37	3043	4	0.21	1.19	-4.36	-19.93	0.12	0.34	6.55	-90.61	18.30	-6.81
3029	3	0.79	1.09	-0.87	-2.73	0.22	-0.41	14.76	-82.20	15.43	12.73	3044	1	0.21	0.28	-5.15	-24.04	0.01	0.06	-3.21	-97.23	19.36	0.61
3029	4	0.21	1.09	-0.78	-2.76	0.18	-0.02	14.93	-79.64	14.14	11.38	3044	2	0.79	0.28	-5.15	-24.01	0.01	0.06	-3.21	-99.30	19.67	0.60
3030	1	0.21	0.32	-5.34	-25.01	0.08	0.47	5.00	-90.44	18.06	4.73	3044	3	0.79	1.06	-5.55	-25.97	0.03	-0.24	-1.85	-97.66	19.58	3.52
3030	2	0.79	0.32	-5.34	-24.97	0.08	-0.29	5.01	-92.30	18.57	5.20	3044	4	0.21	1.06	-5.55	-26.00	0.04	0.29	-1.84	-95.50	19.24	3.33
3030	3	0.79	1.19	-4.34	-19.96	0.12	-0.39	6.52	-88.83	17.81	8.18	3045	1	0.30	0.21	0.47	-0.50	1.10	-0.71	1.23	-2.11	-303.82	1.95
3030	4	0.21	1.19	-4.31	-20.00	0.11	0.23	6.58	-87.19	16.97	7.40	3045	2	1.10	0.21	0.01	-0.69	0.84	-0.21	-2.36	-0.41	-305.34	-0.64
3031	1	0.21	0.28	-5.16	-24.09	0.02	0.06	-3.21	-94.00	18.68	0.60	3045	3	1.10	0.79	0.00	-0.77	0.80	-0.33	-2.14	0.15	-305.53	-0.80
3031	2	0.79	0.28	-5.15	-24.07	0.02	0.05	-3.20	-95.78	19.08	0.61	3045	4	0.30	0.79	0.40	-0.58	1.05	-1.02	1.36	0.72	-301.15	1.46
3031	3	0.79	1.06	-5.55	-26.02	0.04	-0.25	-1.84	-94.12	18.92	3.18	3046	1	0.23	0.21	2.49	-0.14	1.26	-2.06	1.01	-4.96	-300.37	13.39
3031	4	0.21	1.06	-5.55	-26.05	0.04	0.27	-1.83	-92.24	18.47	2.92	3046	2	0.86	0.21	1.14	-0.38	0.98	-2.23	-1.63	-3.22	-302.13	4.99
3032	1	0.30	0.21	0.23	-0.42	1.15	-3.09	2.58	-5.79	-308.81	5.47	3046	3	0.86	0.79	1.04	-0.39	0.96	-1.40	-1.89	0.96	-296.70	4.86
3032	2	1.10	0.21	-0.26	-0.43	0.81	2.21	-2.97	-1.69	-308.02	3.17	3046	4	0.23	0.79	2.05	-0.09	1.21	-2.16	1.09	1.71	-290.07	13.24
3032	3	1.10	0.79	-0.11	-0.61	1.03	-0.51	-2.68	-1.24	-305.54	0.53	3047	1	0.09	0.21	-3.26	0.07	1.32	-2.65	2.52	-5.07	-299.68	-19.81
3032	4	0.30	0.79	0.37	-0.49	1.12	-1.26	2.09	-4.30	-305.99	3.14	3047	2	0.33	0.21	-3.91	-0.09	0.82	-2.55	-7.52	-5.06	-300.17	-27.24
3033	1	0.23	0.21	3.03	-0.18	0.95	-2.68	1.54	-11.77	-315.26	15.11	3047	3	0.33	0.79	-3.22	-0.32	0.78	-2.91	-7.31	1.00	-280.33	-27.00
3033	2	0.86	0.21	1.40	-0.24	0.82	-0.91	-2.75	-10.61	-310.41	10.13	3047	4	0.09	0.79	-2.67	-0.23	1.28	-2.19	2.05	1.37	-285.69	-19.76
3033	3	0.86	0.79	1.30	-0.28	0.89	-1.73	-2.36	-6.59	-305.74	6.42	3048	1	0.09	0.21	4.21	0.12	1.12	0.01	10.27	-4.25	-294.57	44.96
3033	4	0.23	0.79	2.80	-0.18	1.19	-2.67	1.16	-8.89	-307.37	14.22	3048	2	0.35	0.21	4.17	0.09	1.13	-0.15	-7.39	-5.45	-298.88	34.87
3034	1	0.09	0.21	-4.09	0.29	0.80	-2.72	1.47	-12.96	-320.79	-19.85	3048	3	0.35	0.79	3.68	0.90	1.05	-2.72	-6.71	-1.05	-275.49	33.98
3034	2	0.33	0.21	-4.82	0.22	0.51	-2.48	-4.77	-11.97	-326.87	-23.11	3048	4	0.09	0.79	4.38	1.02	1.05	-3.27	9.77	-2.77	-267.07	45.15
3034	3	0.33	0.79	-4.43	0.09	0.73	-2.35	-6.64	-9.37	-314.02	-26.07	3049	1	0.09	0.21	-4.09	-0.26	1.04	1.98	6.07	-2.57	-290.10	-54.00
3034	4	0.09	0.79	-3.75	0.13	1.19	-2.13	2.57	-9.77	-310.55	-19.91	3049	2	0.33	0.21	-3.56	-0.13	1.00	2.13	-11.41	0.49	-282.46	-64.97
3035	1	0.09	0.21	4.23	-0.88	0.63	3.20	5.22	-7.21	-327.76	30.54	3049	3	0.33	0.79	-4.93	-1.73	0.89	-1.37	-10.55	-8.56	-255.81	-65.85
3035	2	0.35	0.21	4.87	-0.70	0.62	3.18	-4.98	-10.78	-328.52	26.65	3049	4	0.09	0.79	-4.67	-1.66	0.93	-1.18	5.19	-5.39	-261.88	-54.38
3035	3	0.35	0.79	4.53	-0.39	0.98	1.87	-6.51	-8.28	-314.32	31.40	3050	1	0.09	0.21	2.78	0.52	1.03	2.01	5.90	9.03	-269.41	79.45
3035	4	0.09	0.79	4.19	-0.50	0.97	1.87	8.64	-5.81	-312.78	40.34	3050	2	0.32	0.21	3.25	0.54	0.66	1.80	-3.72	3.90	-276.80	72.60
3036	1	0.09	0.21	-3.54	1.15	0.62	5.70	4.77	-0.50	-322.66	-33.51	3050	3	0.32	0.79	4.77	2.02	0.52	2.35	-2.57	-10.62	-253.41	74.15
3036	2	0.33	0.21	-2.27	1.43	0.60	6.20	-5.59	6.11	-310.67	-36.21	3050	4	0.09	0.79	4.04	1.93	0.75	2.61	5.61	-14.72	-253.48	82.41
3036	3	0.33	0.79	-2.79	0.78	0.89	4.72	-9.48	4.92	-299.25	-54.86	3051	1	0.13	0.21	1.57	0.45	0.84	1.95	3.70	24.72	-247.40	78.59
3036	4	0.09	0.79	-3.73	0.61	0.92	4.15	5.97	-0.79	-308.57	-46.60	3051	2	0.47	0.21	2.28	0.48	0.80	1.91	1.59	13.78	-261.48	82.01
3037	1	0.09	0.21	1.16	-1.23	0.90	2.57	2.38	24.14	-277.25	37.50	3051	3	0.47	0.79	3.33	2.06	0.54	3.09	1.52	-17.32	-256.67	86.47
3037	2	0.32	0.21	1.63	-1.15	0.52	2.06	-4.57	14.83	-298.59	37.52	3051	4	0.13	0.79	2.05	2.05	0.60	2.57	3.14	-21.37	-266.30	85.57
3037	3	0.32	0.79	2.28	-0.50	0.64	1.47	-4.49	12.03	-290.55	59.44	3052	1	0.18	0.21	-20.30	-4.03	0.57	4.24	1.42	-30.11	-155.42	31.07
3037	4	0.09	0.79	1.87	-0.58	1.06	2.26	4.60	21.19	-275.18	63.45	3052	2	0.67	0.21	-16.99	-4.31	2.44	7.31	3.74	-51.22	-197.49	38.33
3038	1	0.13	0.21	0.14	-1.57	0.75	2.47	2.40	51.08	-220.56	30.00	3052	3	0.67	0.79	-14.15	-5.47	0.47	7.75	1.78	-45.34	-205.59	57.66
3038	2	0.47	0.21	0.82	-1.39	0.80	1.74	-0.14	35.55	-258.07	35.72	3052	4	0.18	0.79	-19.17	-4.38	-0.34	5.58	2.99	-25.40	-158.61	60.05
3038	3	0.47	0.79	1.54	-0.52	0.85	1.25	1.06	31.10	-262.46	64.96	3053	1	0.21	0.21	-26.73	-3.62	-0.67	4.69	-2.14	12.41	-129.77	23.76
3038	4	0.13	0.79	0.98	-0.66	0.84	2.13	3.30	47.30	-235.68	58.18	3053	2	0.78	0.21	-23.09	-3.71	-0.46	6.17	1.98	-9.76	-209.23	28.91
3039	1	0.18	0.21	-23.89	-4.24	0.61	4.09	2.81	2.73	-146.86	-4.15	3053	3	0.78	0.79	-22.14	-4.10	-1.67	5.92	0.56	-7.54	-214.76	55.94
3039	2	0.67	0.21	-22.62	-3.34	1.97	3.24	4.79	-5.87	-167.06	5.37	3053	4	0.21	0.79	-26.60	-4.14	-1.29	5.43	-5.90	13.31	-142.08	42.05
3039	3	0.67	0.79	-19.60	-3.42	2.63	3.26	3.49	-35.74	-185.31	22.07	3054	1	0.21	0.34	0.75	7.06	0.19	0.34	15.64	-81.20	17.99	17.20
3039	4	0.18	0.79	-21.99	-4.11	0.75	6.14	1.80	-18.54	-154.79	11.60	3054	2	0.79	0.34	0.81	7.09	0.11	0.25	15.66	-84.20	17.68	17.69
3040	1	0.21	0.21	-27.70	-3.93	-0.17	4.23	0.34	17.90	-143.15	-0.13	3054	3	0.79	1.28	3.76	22.25	0.14	0.07	16.51	-65.78	12.25	27.45
3040	2	0.78	0.21	-25.42	-3.29	0.02	4.40	0.78	9.65	-203.34	-7.86	3054	4	0.21	1.28	3.68	22.21	0.13	-0.29	16.51	-59.81	12.49	20.96
3040	3	0.78	0.79	-24.10	-3.30	0.02	4.74	2.11	-3.64	-203.57	9.05	3055	1	0.21	0.29	-3.22	-13.87	0.13	0.39	13.28	-91.38	18.69	11.61
3040	4	0.21	0.79	-27.23	-3.73	-0.26	4.32	-0.96	14.14	-132.52	11.03	3055	2	0.79	0.29	-3.19	-13.84	0.09	-0.05	13.27	-93.59	18.39	12.01
3041	1	0.21	0.34	0.94	7.01	0.32	-0.09	15.88	-78.35	15.72	15.77	3055	3	0.79	1.09	-1.03	-2.64	0.07	0.30	14.71	-87.86	17.58	15.30
3041	2	0.79	0.34	0.81	7.05	0.27	-0.07	15.66	-79.19	17.70	16.74	3055	4	0.21	1.09	-1.07	-2.66	0.14	-0.41	14.66	-85.95	18.07	14.59
3041	3	0.79	1.28	3.74	22.30	0.17	-0.87	16.94	-59.91	12.32	16.66	3056	1	0.21	0.32	-5.34	-24.89	0.06	0.44	5.00	-97.49	19.51	5.96
3041	4	0.21	1.28	4.06	22.57	0.17	-1.11	17.17	-64.72	11.91	11.88	3056	2	0.79	0.32	-5.33	-24.86	0.05	-0.23	4.99	-99.78	19.56	6.26
3042	1	0.21	0.29	-3.17	-13.93	0.18	0.33	13.31	-87.63	17.78	10.91	3056	3	0.79	1.19	-4.35	-19.84	0.06	-0.43	6.51	-96.48	18.68	9.70
3042	2	0.79	0.29	-3.21	-13.89	0.16	-0.16	13.36	-89.74	18.48	11.39	3056	4	0.21	1.19	-4.38	-19.86	0.09	0.46	6.50	-94.18	19.02	9.30
3042	3	0.79	1.09	-1.04	-2.68	0.17	0.04	14.63	-84.93	17.73	14.16	3057	1	0.21	0.28	-5.14	-23.99	0.00	0.07	-3.21	-100.92	19.84	0.58
3042	4	0.21	1.09	-0.96	-2.71	0.22	-0.29	14.80	-82.00	16.89	13.43	3057	2	0.79	0.28	-5.12	-23.96	0.00	0.07	-3.21	-103.23	19.98	0.58
3043	1	0.21	0.32	-5.35	-24.94	0.08	0.44	4.99	-93.77	18.97	5.47	3057	3	0.79	1.06	-5.53	-25.91	0.02	-0.22	-1.83	-101.55	19.85	3.81
3043	2	0.79	0.32	-5.35	-24.91	0.07	-0.26	5.00	-95.89	19.34	5.76	3057	4	0.21	1.06	-5.54	-25.94	0.03	0.31	-1.85	-99.26	19.75	3.60
3043	3	0.79	1.19	-4.38	-19.89	0.11	-0.44	6.49	-92.50	18.88	9.03	3058	1	0.30	0.21	0.38	-0.63	1.00	-0.95	1.23	2.21	-298.28	2.20

3058	2	1.10	0.21	0.00	-0.78	0.76	-0.09	-1.94	0.52	-305.90	-0.09	3072	4	0.23	0.79	2.31	0.27	0.24	-2.21	1.73	4.44	-267.89	17.66
3058	3	1.10	0.79	-0.02	-0.77	0.71	-0.27	-1.80	0.52	-304.93	1.00	3073	1	0.09	0.21	-2.41	-0.63	0.19	-2.71	0.92	7.71	-260.96	-18.28
3058	4	0.30	0.79	0.38	-0.61	0.92	-1.11	1.50	2.32	-294.85	4.10	3073	2	0.33	0.21	-3.01	-0.81	0.12	-3.59	-1.39	6.66	-249.63	-19.79
3059	1	0.23	0.21	1.82	0.02	1.06	-1.88	1.28	5.71	-282.95	13.76	3073	3	0.33	0.79	-3.69	-0.87	-0.11	-3.50	0.61	3.32	-251.25	-16.39
3059	2	0.86	0.21	0.94	-0.40	0.90	-1.53	-1.42	3.79	-293.59	6.09	3073	4	0.09	0.79	-2.98	-0.64	-0.19	-3.04	-0.01	4.55	-259.48	-18.23
3059	3	0.86	0.79	0.93	-0.34	0.75	-1.31	-1.16	6.08	-288.00	9.40	3074	1	0.09	0.21	5.18	2.09	-0.02	-6.58	-0.45	-1.94	-229.20	20.50
3059	4	0.23	0.79	1.74	0.11	0.77	-1.98	1.39	7.97	-275.14	15.00	3074	2	0.35	0.21	3.78	1.83	-0.04	-5.84	-0.23	2.51	-241.68	20.24
3060	1	0.09	0.21	-2.30	-0.35	1.04	-2.58	1.92	5.72	-274.69	-19.51	3074	3	0.35	0.79	4.35	1.44	-0.38	-4.61	1.65	-0.19	-245.11	14.24
3060	2	0.33	0.21	-2.84	-0.57	0.63	-2.99	-5.94	5.10	-266.15	-25.85	3074	4	0.09	0.79	5.46	1.77	-0.36	-4.91	-3.58	-3.21	-234.59	10.46
3060	3	0.33	0.79	-2.75	-0.78	0.35	-3.28	-3.56	7.70	-253.60	-22.48	3075	1	0.09	0.21	-5.99	-2.91	-0.13	-3.78	-0.11	-9.40	-223.38	-20.05
3060	4	0.09	0.79	-2.19	-0.58	0.56	-2.66	1.05	8.61	-264.89	-19.34	3075	2	0.33	0.21	-6.85	-3.03	-0.14	-4.38	1.76	-17.48	-218.99	-19.98
3061	1	0.09	0.21	4.55	1.70	0.79	-5.36	7.38	-1.47	-248.03	40.43	3075	3	0.33	0.79	-6.48	-2.32	-0.39	-2.36	4.90	-13.86	-223.48	-3.02
3061	2	0.35	0.21	3.47	1.44	0.80	-4.93	-5.04	1.57	-259.73	31.28	3075	4	0.09	0.79	-6.04	-2.18	-0.40	-2.01	-1.59	-8.64	-228.97	-7.07
3061	3	0.35	0.79	3.49	1.80	0.31	-6.18	-2.52	3.05	-245.68	25.49	3076	1	0.09	0.21	5.70	2.84	-0.25	4.13	-1.14	-34.80	-224.31	21.37
3061	4	0.09	0.79	4.91	2.15	0.32	-6.67	2.92	-1.30	-232.33	29.50	3076	2	0.32	0.21	6.79	3.11	-0.13	4.43	-0.27	-24.32	-218.91	19.95
3062	1	0.09	0.21	-5.23	-2.56	0.65	-3.16	3.70	-8.11	-242.25	-47.20	3076	3	0.32	0.79	6.27	2.18	-0.22	4.69	0.06	-17.98	-221.19	0.55
3062	2	0.33	0.21	-5.86	-2.66	0.62	-4.02	-7.42	-14.32	-237.01	-56.66	3076	4	0.09	0.79	5.22	1.95	-0.32	4.32	-2.95	-24.86	-221.86	-0.36
3062	3	0.33	0.79	-6.70	-3.29	0.18	-5.03	-1.96	-18.03	-221.76	-36.38	3077	1	0.13	0.21	2.69	2.27	-0.24	5.01	-1.93	-61.25	-244.61	35.31
3062	4	0.09	0.79	-5.77	-3.05	0.20	-4.39	1.56	-9.74	-226.33	-32.78	3077	2	0.47	0.21	4.57	2.69	-0.22	5.89	-1.52	-44.65	-230.99	23.91
3063	1	0.09	0.21	4.96	2.86	0.44	2.94	3.71	-29.81	-242.58	69.05	3077	3	0.47	0.79	4.15	1.67	-0.17	5.93	-2.23	-31.50	-221.16	1.37
3063	2	0.32	0.21	5.85	3.01	0.32	3.50	-1.73	-20.96	-236.54	62.49	3077	4	0.13	0.79	2.32	1.13	-0.03	5.56	-2.63	-42.95	-219.28	9.90
3063	3	0.32	0.79	6.67	3.36	0.05	4.08	-0.74	-26.31	-222.55	39.22	3078	1	0.18	0.21	-22.28	-4.57	-2.21	6.53	0.33	60.88	-161.12	67.93
3063	4	0.09	0.79	5.64	3.22	-0.02	3.81	0.91	-37.72	-231.40	43.15	3078	2	0.67	0.21	-19.91	-3.74	-3.72	3.38	-4.13	79.81	-171.85	61.75
3064	1	0.13	0.21	2.41	2.90	0.19	3.44	1.65	-51.62	-273.43	76.00	3078	3	0.67	0.79	-22.83	-3.62	-2.92	3.54	-5.01	100.40	-163.43	34.23
3064	2	0.47	0.21	3.96	2.89	0.21	4.27	0.93	-39.01	-248.99	74.67	3078	4	0.18	0.79	-24.20	-4.68	-1.94	4.61	-0.69	75.37	-157.97	39.33
3064	3	0.47	0.79	4.51	3.14	-0.12	5.25	-0.57	-49.12	-238.40	46.36	3079	1	0.21	0.21	-28.06	-6.11	-2.63	6.56	-10.81	25.37	-220.58	50.29
3064	4	0.13	0.79	2.71	2.91	-0.18	4.53	-0.30	-66.58	-261.89	55.48	3079	2	0.78	0.21	-24.42	-5.31	-4.05	5.43	4.16	42.82	-235.51	66.00
3065	1	0.18	0.21	-19.25	-4.49	-1.27	5.66	-1.44	-5.68	-161.84	75.44	3079	3	0.78	0.79	-25.76	-5.21	-3.70	5.15	6.15	52.16	-239.54	40.93
3065	2	0.67	0.21	-14.24	-5.53	-1.82	7.54	-3.07	-16.45	-197.52	71.13	3079	4	0.21	0.79	-28.55	-6.23	-2.51	6.46	-8.66	28.43	-236.65	35.84
3065	3	0.67	0.79	-17.28	-4.55	-3.67	7.22	-4.81	40.43	-179.39	74.73	3080	1	0.21	0.34	1.35	7.17	0.09	0.58	16.04	-91.04	11.29	21.13
3065	4	0.18	0.79	-20.54	-4.41	-2.10	4.58	0.12	31.42	-158.91	79.47	3080	2	0.79	0.34	1.49	7.19	0.18	0.90	16.26	-94.65	9.88	23.74
3066	1	0.21	0.21	-26.82	-4.80	-1.96	6.13	-8.58	16.13	-164.58	52.41	3080	3	0.79	1.28	4.91	23.35	0.21	-0.05	18.52	-103.81	10.42	29.20
3066	2	0.78	0.21	-22.23	-4.58	-2.76	6.17	4.86	4.29	-218.92	73.31	3080	4	0.21	1.28	4.60	23.04	0.19	0.43	18.34	-95.72	10.67	32.40
3066	3	0.78	0.79	-23.31	-5.28	-3.79	6.60	3.95	28.00	-232.62	77.62	3081	1	0.21	0.29	-3.00	-13.80	0.08	0.61	13.49	-99.26	16.33	14.63
3066	4	0.21	0.79	-27.34	-5.42	-2.48	6.24	-10.49	21.87	-194.94	56.20	3081	2	0.79	0.29	-2.94	-13.76	0.12	0.05	13.44	-102.20	16.13	16.38
3067	1	0.21	0.34	0.95	7.12	0.05	0.69	15.74	-85.52	15.77	18.29	3081	3	0.79	1.09	-0.60	-2.52	0.11	-0.50	14.97	-98.02	13.36	20.67
3067	2	0.79	0.34	1.16	7.13	0.04	0.75	15.96	-89.94	12.69	19.64	3081	4	0.21	1.09	-0.69	-2.56	0.04	0.04	14.83	-95.99	13.74	18.61
3067	3	0.79	1.28	4.39	22.79	0.15	0.61	17.44	-87.08	11.23	32.83	3082	1	0.21	0.32	-5.25	-24.79	0.04	0.55	5.01	-106.10	19.24	7.55
3067	4	0.21	1.28	3.93	22.41	0.13	0.69	17.07	-73.39	11.75	30.63	3082	2	0.79	0.32	-5.21	-24.76	0.05	-0.23	5.01	-109.12	19.28	8.26
3068	1	0.21	0.29	-3.14	-13.83	0.07	0.52	13.37	-95.10	17.79	12.47	3082	3	0.79	1.19	-4.18	-19.76	0.06	-0.31	6.59	-105.57	17.76	13.05
3068	2	0.79	0.29	-3.06	-13.81	0.07	0.05	13.32	-97.52	16.94	13.52	3082	4	0.21	1.19	-4.23	-19.79	0.04	0.31	6.54	-102.36	17.89	11.80
3068	3	0.79	1.09	-0.81	-2.59	0.03	0.05	14.91	-92.13	15.13	17.34	3083	1	0.21	0.28	-5.07	-23.89	-0.01	0.10	-3.20	-109.68	20.08	0.64
3068	4	0.21	1.09	-0.95	-2.62	0.04	-0.22	14.65	-91.13	16.31	16.00	3083	2	0.79	0.28	-5.04	-23.86	-0.01	0.10	-3.20	-112.68	20.12	0.68
3069	1	0.21	0.32	-5.31	-24.84	0.04	0.48	5.01	-101.52	19.46	6.56	3083	3	0.79	1.06	-5.43	-25.81	0.00	-0.23	-1.83	-111.00	19.82	4.90
3069	2	0.79	0.32	-5.27	-24.81	0.04	-0.22	4.99	-104.08	19.34	7.08	3083	4	0.21	1.06	-5.46	-25.84	0.00	0.30	-1.83	-108.03	19.79	4.54
3069	3	0.79	1.19	-4.27	-19.80	0.04	-0.36	6.57	-100.74	18.10	11.00	3084	1	0.30	0.25	0.61	-0.37	0.71	-1.63	0.37	-1.38	-283.61	12.15
3069	4	0.21	1.19	-4.32	-19.82	0.04	0.45	6.50	-97.91	18.64	10.16	3084	2	1.10	0.37	0.10	-0.56	0.53	0.32	-0.97	-2.58	-293.28	-0.98
3070	1	0.21	0.28	-5.11	-23.94	0.00	0.08	-3.21	-105.02	20.04	0.58	3084	3	1.10	0.95	0.03	-0.50	0.65	0.84	-0.36	1.54	-260.04	10.14
3070	2	0.79	0.28	-5.08	-23.91	-0.01	0.09	-3.22	-107.64	20.07	0.60	3084	4	0.30	0.83	0.79	-0.25	0.53	-2.94	1.41	-3.13	-279.11	10.32
3070	3	0.79	1.06	-5.48	-25.87	0.01	-0.22	-1.82	-105.90	19.82	4.26	3085	1	0.23	0.21	2.77	0.35	0.11	-2.54	1.55	0.58	-268.36	18.27
3070	4	0.21	1.06	-5.51	-25.89	0.01	0.31	-1.84	-103.39	19.85	3.96	3085	2	0.86	0.21	1.47	0.04	0.45	-1.60	0.74	0.45	-272.90	16.37
3071	1	0.30	0.21	0.47	-0.52	0.86	-0.92	1.59	1.69	-290.11	7.17	3085	3	0.86	0.79	1.72	0.08	0.41	-1.60	-0.69	-4.05	-276.09	14.89
3071	2	1.10	0.21	0.05	-0.71	0.75	-0.04	-1.62	-0.99	-303.66	1.01	3085	4	0.23	0.79	3.36	0.34	0.12	-2.68	1.21	-5.75	-268.35	17.74
3071	3	1.10	0.79	0.14	-0.64	0.56	-1.49	-1.66	-2.36	-299.92	-0.04	3086	1	0.09	0.21	-3.56	-0.59	-0.35	-2.87	0.27	0.13	-263.69	-16.58
3071	4	0.30	0.79	0.59	-0.38	0.78	-0.45	2.06	1.51	-284.95	11.50	3086	2	0.33	0.21	-4.31	-0.72	-0.20	-3.45	1.55	-0.44	-256.76	-14.26
3072	1	0.23	0.21	1.88	0.20	0.52	-2.11	1.64	7.86	-270.94	16.24	3086	3	0.33	0.79	-5.14	-0.63	-0.18	-3.25	1.44	-6.61	-264.82	-13.64
3072	2	0.86	0.21	1.00	-0.30	0.63	-1.52	-0.88	5.51	-285.96	11.75	3086	4	0.09	0.79	-4.32	-0.47	-0.30	-3.44	0.22	-6.76	-265.01	-16.39
3072	3	0.86	0.79	1.20	-0.17	0.50	-2.33	-1.10	1.78	-281.57	13.24	3087	1	0.09	0.21	5.58	1.23	-0.46	-3.09	-4.64	-4.86	-244.05	5.76

3087	2	0.35	0.21	4.86	1.17	-0.49	-2.71	2.32	-3.05	-251.78	11.33	
3087	3	0.35	0.79	5.49	0.48	-0.45	-0.18	1.96	-7.06	-263.31	10.65	
3087	4	0.09	0.79	5.61	0.59	-0.42	-0.32	-4.44	-6.50	-258.87	4.67	
3088	1	0.09	0.21	-5.86	-1.53	-0.46	-0.03	-1.87	-7.32	-238.89	-1.09	
3088	2	0.33	0.21	-5.88	-1.48	-0.45	-0.04	5.62	-10.10	-232.06	4.65	
3088	3	0.33	0.79	-4.84	-0.39	-0.37	2.68	5.01	-4.33	-245.26	6.48	
3088	4	0.09	0.79	-5.45	-0.46	-0.38	2.88	-1.17	-5.22	-253.94	0.29	
3089	1	0.09	0.21	4.50	1.12	-0.24	4.63	-3.28	-15.04	-221.20	-10.26	
3089	2	0.32	0.21	5.50	1.37	-0.20	4.49	-0.28	-11.54	-227.24	-8.03	
3089	3	0.32	0.79	4.29	0.26	-0.08	4.35	-1.31	-1.72	-237.15	-10.29	
3089	4	0.09	0.79	3.41	0.01	0.01	3.96	-3.15	-0.96	-224.63	-13.32	
3090	1	0.13	0.21	1.84	0.26	0.21	5.75	-2.47	-26.09	-206.26	-2.02	
3090	2	0.47	0.21	3.53	0.81	0.00	5.17	-2.53	-18.43	-215.91	-9.52	
3090	3	0.47	0.79	2.64	-0.26	0.26	4.47	-2.59	0.53	-211.90	-13.62	
3090	4	0.13	0.79	1.25	-0.70	0.48	4.46	-2.07	-0.40	-188.89	-9.38	
3091	1	0.18	0.21	-25.19	-4.62	-1.57	4.47	1.65	67.54	-154.51	17.60	
3091	2	0.67	0.21	-24.13	-3.44	-1.99	3.41	-1.00	89.66	-157.63	14.32	
3091	3	0.67	0.79	-24.64	-3.28	-0.83	3.52	-1.87	55.19	-157.01	1.70	
3091	4	0.18	0.79	-25.86	-4.51	-0.89	4.47	0.88	47.16	-154.81	-0.59	
3092	1	0.21	0.21	-28.79	-6.00	-2.06	6.15	-7.15	27.80	-237.52	23.26	
3092	2	0.78	0.21	-26.48	-4.98	-3.11	4.57	4.25	50.22	-239.06	18.88	
3092	3	0.78	0.79	-26.90	-4.22	-2.13	4.16	5.34	37.38	-235.43	-1.10	
3092	4	0.21	0.79	-28.83	-5.35	-1.52	5.56	-3.72	24.83	-225.35	10.28	
3093	1	0.21	0.34	1.52	7.23	0.29	0.12	16.20	-96.72	10.19	25.75	
3093	2	0.79	0.34	1.43	7.29	0.38	0.53	16.13	-98.50	12.44	28.37	
3093	3	0.79	1.28	4.71	23.36	0.26	-1.06	18.51	-100.03	11.16	24.51	
3093	4	0.21	1.28	4.90	23.43	0.26	-0.83	18.74	-104.78	10.60	27.10	
3094	1	0.21	0.29	-2.92	-13.73	0.16	0.58	13.48	-104.67	16.40	17.75	
3094	2	0.79	0.29	-2.94	-13.68	0.19	-0.04	13.49	-108.36	17.35	19.32	
3094	3	0.79	1.09	-0.62	-2.44	0.23	-0.73	14.86	-104.44	15.09	24.37	
3094	4	0.21	1.09	-0.57	-2.49	0.15	0.07	14.98	-100.19	13.72	22.25	
3095	1	0.21	0.32	-5.20	-24.73	0.06	0.57	5.01	-111.57	19.40	8.74	
3095	2	0.79	0.32	-5.18	-24.69	0.06	-0.22	5.03	-115.15	19.65	9.30	
3095	3	0.79	1.19	-4.17	-19.68	0.10	-0.31	6.54	-111.50	18.67	15.08	
3095	4	0.21	1.19	-4.17	-19.73	0.08	0.19	6.57	-108.00	17.99	13.97	
3096	1	0.21	0.28	-5.02	-23.83	-0.01	0.11	-3.20	-115.04	20.16	0.71	
3096	2	0.79	0.28	-4.99	-23.79	-0.02	0.11	-3.20	-118.41	20.19	0.71	
3096	3	0.79	1.06	-5.39	-25.75	0.01	-0.22	-1.84	-116.92	20.03	5.49	
3096	4	0.21	1.06	-5.41	-25.79	0.01	0.29	-1.82	-113.39	19.90	5.21	
3097	1	0.36	0.08	-0.87	0.05	-0.03	1.07	-0.65	-10.42	23.77	-16.99	
3097	2	1.35	0.08	-0.49	-0.31	0.13	0.81	-0.04	-7.60	-29.42	11.19	
3097	3	1.35	0.32	-0.10	0.03	0.16	1.79	1.14	-23.32	-31.31	-11.85	
3097	4	0.36	0.32	-1.15	-0.01	-0.01	-0.78	0.21	-20.24	23.84	16.27	
3098	1	0.32	0.08	-0.69	0.05	0.03	-0.47	-0.31	-15.59	11.63	-12.54	
3098	2	1.19	0.08	-1.21	-0.07	0.08	-0.02	0.05	-12.65	-20.08	18.27	
3098	3	1.19	0.32	-0.97	-0.09	0.06	0.31	0.12	-17.91	-19.51	-19.08	
3098	4	0.32	0.32	-0.85	0.02	-0.02	-1.29	0.45	-14.83	11.62	11.74	
3099	1	0.28	0.08	0.29	0.11	0.00	-0.72	0.02	-16.99	-8.17	-10.78	
3099	2	1.06	0.08	-0.84	-0.09	0.03	-1.62	0.06	-17.74	1.77	10.94	
3099	3	1.06	0.32	-0.80	-0.08	0.03	-1.98	-0.36	-12.68	1.82	-10.75	
3099	4	0.28	0.32	0.16	0.07	0.06	-1.06	0.27	-13.46	-8.32	11.03	
3100	1	0.17	0.12	18.35	-0.38	1.81	-7.10	1.16	-105.02	-23.08	-118.18	
3100	2	0.62	0.12	13.32	0.66	1.85	-7.67	-0.48	-100.00	-61.12	-101.24	
3100	3	0.53	0.45	14.32	0.72	2.94	-8.90	-0.63	-110.32	-67.13	-107.01	
3100	4	0.14	0.44	18.93	-0.14	2.90	-8.25	3.34	-103.69	-19.98	-113.19	
3101	1	0.12	0.12	9.62	1.11	1.73	-5.14	0.22	-88.28	-87.35	-75.72	
3101	2	0.58	0.13	5.36	1.29	1.55	-6.67	-1.92	-68.03	-136.99	-43.93	
3101	3	0.37	0.50	6.81	1.26	2.19	-7.76	-2.19	-93.29	-135.34	-75.12	
3101	4	-0.02	0.47	10.84	1.13	2.70	-9.91	0.76	-109.80	-98.96	-98.30	
3102	1	0.08	0.14	2.80	1.06	1.40	-6.65	-1.15	-50.05	-164.26	-21.87	
3102	2	0.53	0.16	0.06	0.39	1.12	-5.82	-3.93	-27.91	-196.15	-12.64	
3102	3	0.19	0.59	1.48	0.31	1.26	-6.97	-2.14	-56.67	-193.50	-42.81	
3102	4	-0.18	0.53	4.21	0.92	1.76	-8.69	-1.77	-81.35	-167.83	-59.26	
3103	1	0.13	0.12	19.55	0.15	3.53	-6.26	5.26	-115.08	-19.49	-100.45	
3103	2	0.47	0.12	15.18	1.06	3.56	-8.63	1.79	-136.97	-51.31	-99.34	
3103	3	0.39	0.45	17.15	1.09	3.65	-22.33	-1.00	-186.02	-27.19	-61.21	
3103	4	0.12	0.44	21.67	0.46	2.56	-28.86	4.14	-116.06	-5.23	-38.16	
3104	1	0.10	0.13	12.20	0.97	2.42	-9.11	2.20	-160.40	-66.96	-97.72	
3104	2	0.43	0.14	8.09	1.11	2.08	-9.60	-0.60	-155.81	-116.12	-101.41	
3104	3	0.27	0.53	9.76	1.24	2.97	-13.95	-3.02	-258.73	-64.95	-103.73	
3104	4	0.00	0.48	14.36	0.98	2.93	-19.01	0.31	-230.31	-31.55	-67.67	
3105	1	0.06	0.16	5.84	0.66	1.26	-8.76	0.01	-152.80	-130.04	-98.26	
3105	2	0.39	0.18	2.82	0.10	0.89	-8.42	-1.98	-130.06	-160.52	-96.52	
3105	3	0.14	0.67	3.85	0.64	1.35	-9.77	-3.52	-281.71	-124.11	-151.53	
3105	4	-0.12	0.59	7.29	0.89	2.06	-12.68	-2.03	-285.71	-81.04	-115.15	
3106	1	0.16	0.12	-21.52	1.08	1.58	-4.84	-0.58	-106.58	-21.87	131.66	
3106	2	0.61	0.12	-24.05	1.49	1.04	-3.32	-1.05	-68.33	1.47	56.10	
3106	3	0.52	0.45	-24.74	1.75	1.36	-4.68	-3.28	-80.62	26.94	87.99	
3106	4	0.14	0.44	-21.88	1.00	2.43	-7.35	-1.61	-89.58	-13.92	111.92	
3107	1	0.12	0.12	-24.69	1.15	0.51	-1.42	-0.21	-119.78	33.93	93.28	
3107	2	0.57	0.13	-24.38	-0.24	0.02	-1.50	-1.89	-104.33	-76.39	41.64	
3107	3	0.36	0.50	-25.63	1.16	-1.58	-4.35	1.10	-62.04	-9.66	51.90	
3107	4	-0.01	0.47	-25.47	1.85	0.15	-5.33	-1.81	-71.99	38.48	80.37	
3108	1	0.08	0.14	-23.90	-1.11	-0.24	-0.14	-0.93	-85.65	-107.69	9.28	
3108	2	0.52	0.16	-23.54	-2.36	-0.62	-1.28	0.84	-69.66	-154.02	-31.63	
3108	3	0.19	0.58	-24.10	-2.46	-2.75	-9.14	-4.05	-39.02	-75.37	-9.63	
3108	4	-0.18	0.53	-24.64	0.01	-2.23	-8.72	-0.69	-46.33	-31.53	19.96	
3109	1	0.13	0.12	-22.00	-0.02	4.87	-3.71	-4.45	-62.42	-8.05	94.49	
3109	2	0.46	0.12	-24.97	1.36	4.14	1.02	-5.90	-49.72	27.74	92.91	
3109	3	0.39	0.45	-26.63	0.32	1.28	-38.20	-9.02	22.52	13.29	41.41	
3109	4	0.12	0.44	-23.84	-0.41	3.19	-33.78	-3.40	-58.21	-3.23	39.66	
3110	1	0.10	0.13	-25.90	1.45	5.33	5.56	-4.47	-21.80	22.61	80.22	
3110	2	0.43	0.14	-26.62	2.49	3.95	9.53	-3.75	-3.96	33.92	73.27	
3110	3	0.27	0.53	-28.21	0.96	-0.50	-41.14	-12.45	117.25	36.07	60.94	
3110	4	0.00	0.48	-27.49	0.52	1.77	-41.29	-9.67	74.70	21.32	51.17	
3111	1	0.06	0.16	-26.13	2.01	4.64	15.34	-0.31	0.85	-1.27	39.67	
3111	2	0.39	0.18	-25.24	2.06	2.91	13.37	7.67	-0.69	-22.38	2.96	
3111	3	0.14	0.66	-27.04	1.86	-2.14	-34.00	-17.84	143.82	37.38	65.69	
3111	4	-0.11	0.59	-28.10	1.73	0.24	-40.85	-13.37	145.19	37.32	65.28	
3112	1	0.36	0.12	-3.42	-24.05	1.59	-0.86	3.87	-151.60	-62.21	41.55	
3112	2	0.90	0.10	-3.63	-22.92	3.09	2.07	1.69	-145.10	-8.58	51.22	
3112	3	1.21	0.37	-2.73	-22.52	4.44	-2.35	3.56	-71.90	23.77	6.03	
3112	4	0.76	0.46	-2.03	-22.26	2.37	-2.25	4.71	-89.90	-24.63	16.90	
3113	1	0.30	0.09	-3.67	-21.68	4.46	0.84	6.22	-74.64	-5.75	9.31	
3113	2	0.85	0.07	-4.27	-18.55	5.84	4.09	3.75	-109.72	21.73	-67.62	
3113	3	1.01	0.27	-4.46	-16.71	7.64	4.89	6.08	-93.67	45.53	-69.15	
3113	4	0.54	0.32	-2.44	-20.73	5.65	2.32	1.28	-71.75	36.26	-15.65	
3114	1	0.25	0.07	-5.68	-14.87	5.81	3.86	7.02	-155.32	28.93	-101.48	
3114	2	0.80	0.06	-6.79	-10.74	3.04	-1.78	9.60	-206.75	-12.38	-121.92	
3114	3	0.83	0.22	-8.11	-7.55	3.35	-0.65	9.93	-214.98	-11.73	-99.09	
3114	4	0.35	0.24	-6.26	-11.45	7.01	3.28	7.93	-141.43	33.34	-82.25	
3115	1	0.27	0.16	-4.14	-21.96	11.17	11.16	-4.02	-34.28	23.04	-16.97	
3115	2	0.66	0.13	-5.51	-18.00	12.80	15.30	1.45	-19.25	38.68	-36.49	
3115	3	0.89	0.47	-9.62	-11.06	11.62	-40.72	16.99	112.75	52.43	-63.63	
3115	4	0.57	0.59	-6.33	-16.44	12.49	-29.55	21.77	112.08	63.80	-74.97	
3116	1	0.24	0.10	-5.65	-16.99	12.45	13.66	9.04	-22.62	52.69	-54.49	

3116	2	0.65	0.08	-8.32	-10.19	10.94	3.23	7.15	-45.58	24.19	-77.68
3116	3	0.78	0.30	-11.25	-3.34	7.13	-40.55	11.89	-0.02	12.88	-36.82
3116	4	0.44	0.37	-9.01	-8.44	10.19	-41.90	16.68	80.23	35.26	-56.80
3117	1	0.20	0.07	-8.40	-7.78	7.89	1.64	12.14	-116.83	22.03	-70.38
3117	2	0.62	0.06	-9.72	-4.19	2.85	-1.69	9.66	-219.00	-22.12	-84.83
3117	3	0.64	0.23	-10.34	-0.66	0.86	-11.64	4.81	-259.40	-15.05	-30.41
3117	4	0.29	0.25	-10.43	-3.26	5.30	-32.26	11.28	-85.14	12.61	-12.53
3118	1	0.20	0.06	-6.50	-10.54	-0.88	2.58	9.38	-244.93	-55.18	-124.08
3118	2	0.75	0.07	-4.79	-14.49	-3.82	-4.46	7.33	-251.93	-102.26	-110.93
3118	3	0.65	0.24	-5.54	-10.92	-5.18	-3.43	8.77	-293.06	-95.58	-118.49
3118	4	0.17	0.22	-7.80	-7.28	-1.28	1.39	9.84	-276.41	-51.22	-112.38
3119	1	0.15	0.07	-3.02	-18.27	-4.09	-4.70	3.47	-228.34	-104.82	-86.11
3119	2	0.70	0.09	-2.30	-21.68	-3.07	-2.24	5.71	-202.65	-79.60	-50.84
3119	3	0.46	0.32	-1.28	-20.63	-4.38	-3.21	0.83	-233.57	-109.12	-81.70
3119	4	-0.01	0.27	-3.41	-16.24	-6.03	-5.14	6.09	-274.59	-122.86	-113.25
3120	1	0.10	0.10	-2.41	-23.30	-1.96	-3.50	0.26	-181.69	-44.99	-26.12
3120	2	0.64	0.12	-2.47	-24.83	-0.62	-0.77	2.95	-164.43	6.17	-10.05
3120	3	0.24	0.46	-1.01	-22.86	-1.62	1.54	3.92	-181.12	-46.29	-41.10
3120	4	-0.21	0.37	-1.58	-22.71	-3.42	1.25	2.76	-208.63	-91.09	-60.74
3121	1	0.16	0.06	-9.26	-4.19	-0.84	1.53	9.72	-315.46	-28.42	-78.98
3121	2	0.58	0.07	-7.49	-7.28	-6.06	-1.80	12.77	-353.92	-75.82	-108.22
3121	3	0.49	0.25	-9.24	-2.94	-4.31	24.37	10.68	-451.39	-42.79	-97.43
3121	4	0.14	0.23	-9.91	-0.64	0.08	1.90	4.39	-364.15	-4.09	-28.44
3122	1	0.12	0.08	-6.99	-9.94	-9.39	-2.98	7.66	-358.47	-82.34	-99.61
3122	2	0.53	0.10	-4.28	-16.91	-11.33	-13.57	9.45	-309.12	-105.29	-97.06
3122	3	0.33	0.37	-7.54	-8.05	-9.26	38.70	16.37	-429.52	-89.60	-161.54
3122	4	-0.01	0.30	-9.69	-2.99	-6.12	35.17	11.38	-478.35	-46.42	-108.93
3123	1	0.07	0.13	-4.13	-18.32	-12.16	-16.20	1.37	-277.33	-87.29	-61.26
3123	2	0.46	0.16	-3.06	-22.64	-10.94	-12.92	-4.65	-228.60	-70.46	-41.44
3123	3	0.16	0.59	-5.45	-16.59	-12.23	28.82	21.42	-325.60	-120.54	-157.75
3123	4	-0.16	0.47	-8.22	-10.91	-10.98	38.71	16.73	-414.02	-91.79	-146.50
3124	1	0.29	0.16	-24.58	-1.48	-0.21	0.56	2.50	22.35	-152.74	11.88
3124	2	0.74	0.14	-25.42	-0.21	-0.19	-0.47	-0.39	14.89	-131.20	33.21
3124	3	1.00	0.53	-25.91	0.75	2.08	7.86	0.00	-44.65	-145.49	65.86
3124	4	0.63	0.58	-25.03	-1.59	2.21	8.59	-3.49	-34.40	-164.35	41.76
3125	1	0.25	0.13	-26.17	0.61	-0.10	0.33	-1.24	5.27	-108.38	59.64
3125	2	0.69	0.12	-26.84	1.88	-0.08	0.99	0.29	-8.27	-64.56	100.98
3125	3	0.83	0.47	-27.32	2.35	0.36	4.57	-1.46	-50.43	-86.99	120.25
3125	4	0.45	0.50	-27.17	1.78	1.73	3.37	1.96	-45.39	-119.29	86.01
3126	1	0.20	0.12	-26.32	2.10	-0.26	2.59	-0.57	-12.74	-37.70	135.41
3126	2	0.65	0.12	-23.78	1.46	-0.47	4.84	-0.32	-15.71	-6.50	164.58
3126	3	0.68	0.44	-23.98	1.27	-1.47	6.95	-1.61	-28.62	-13.01	157.48
3126	4	0.29	0.45	-26.75	2.16	-0.63	3.76	-3.19	-41.86	-54.26	140.68
3127	1	0.22	0.18	-25.74	2.60	-3.59	-15.28	8.63	-119.37	-150.02	86.61
3127	2	0.54	0.16	-27.09	2.50	-5.05	-17.25	0.25	-131.22	-117.91	101.57
3127	3	0.72	0.59	-28.95	1.91	-0.31	39.86	-13.19	-300.98	-80.93	119.68
3127	4	0.46	0.66	-27.26	2.20	1.79	33.18	-17.07	-295.57	-123.81	153.87
3128	1	0.19	0.14	-27.98	2.95	-4.00	-10.87	-3.51	-127.04	-107.06	113.14
3128	2	0.52	0.13	-27.65	1.80	-5.03	-6.84	-4.68	-119.23	-59.06	122.00
3128	3	0.62	0.48	-29.27	0.53	-1.44	39.57	-9.95	-224.16	-32.18	78.60
3128	4	0.35	0.53	-29.48	1.05	0.67	39.93	-12.46	-268.63	-67.20	110.60
3129	1	0.16	0.12	-26.88	1.57	-3.47	-1.36	-6.24	-83.78	-48.78	130.83
3129	2	0.50	0.12	-24.04	0.15	-3.98	3.84	-4.86	-45.52	-2.92	137.59
3129	3	0.51	0.44	-25.97	-0.42	-2.67	30.52	-3.83	-58.76	-1.55	56.81
3129	4	0.23	0.45	-28.59	0.26	-0.76	35.68	-9.19	-159.79	-28.44	71.30
3130	1	0.17	0.12	-20.43	0.59	-0.55	7.09	-1.01	-13.77	6.35	166.03
3130	2	0.62	0.12	-15.08	-0.76	-0.43	8.14	0.50	-9.38	5.83	138.73
3130	3	0.53	0.45	-16.10	-0.83	-1.85	8.56	0.69	6.89	34.67	136.59
3130	4	0.14	0.44	-20.91	0.29	-1.86	7.85	-3.37	-8.69	11.77	158.40
3131	1	0.12	0.12	-11.05	-1.45	-0.20	8.22	-0.81	-2.84	-12.66	102.39
3131	2	0.58	0.13	-6.40	-1.95	0.10	7.28	0.72	7.52	-52.19	55.99
3131	3	0.37	0.50	-7.95	-2.23	-1.00	6.81	1.53	33.73	3.21	64.33
3131	4	-0.02	0.47	-12.30	-1.55	-1.58	9.19	-0.97	24.05	35.65	111.01
3132	1	0.08	0.14	-3.71	-1.97	0.35	6.27	-1.20	13.83	-90.46	27.47
3132	2	0.53	0.16	-0.90	-1.82	0.57	4.85	-0.12	18.65	-140.91	3.35
3132	3	0.19	0.59	-2.44	-2.33	0.09	5.00	0.43	56.94	-78.87	19.41
3132	4	-0.18	0.53	-5.21	-2.35	-0.48	7.60	0.69	49.29	-26.88	41.33
3133	1	0.13	0.12	-21.44	-0.16	-2.40	6.98	-5.49	10.67	1.85	140.33
3133	2	0.47	0.12	-16.90	-1.14	-2.46	9.25	-1.59	49.34	38.41	128.36
3133	3	0.39	0.45	-18.98	-1.09	-3.21	18.67	0.70	136.25	26.03	69.58
3133	4	0.12	0.44	-23.67	-0.48	-1.95	25.07	-4.39	31.69	1.10	57.70
3134	1	0.10	0.13	-13.60	-1.40	-1.39	10.00	-1.95	81.43	32.75	111.29
3134	2	0.43	0.14	-9.18	-2.03	-1.29	9.15	1.21	94.01	38.66	79.92
3134	3	0.27	0.53	-11.03	-1.48	-2.86	11.79	3.02	241.51	47.10	92.98
3134	4	0.00	0.48	-15.91	-0.99	-2.49	15.81	-0.35	202.88	30.04	75.01
3135	1	0.06	0.16	-6.56	-2.20	-0.67	7.82	0.00	93.42	10.94	41.14
3135	2	0.39	0.18	-3.50	-2.50	-0.52	6.52	1.48	92.19	-27.69	4.89
3135	3	0.14	0.67	-4.84	-1.96	-1.92	8.64	4.47	235.67	50.27	88.44
3135	4	-0.12	0.59	-8.42	-1.48	-2.17	11.05	2.38	260.76	50.29	86.57
3136	1	0.36	0.13	-1.79	-0.05	-0.63	-0.93	-4.49	-153.60	32.31	0.59
3136	2	0.90	0.10	-2.12	0.40	-0.69	0.83	-3.16	-151.12	68.02	-12.22
3136	3	1.21	0.38	-2.28	-0.10	-0.33	2.96	-3.67	-103.03	103.60	-30.02
3136	4	0.77	0.47	-2.32	-1.27	-0.27	1.91	-4.83	-99.73	65.36	-13.03
3137	1	0.30	0.09	-1.94	0.96	-0.79	1.39	-2.93	-154.45	88.15	-37.59
3137	2	0.85	0.08	-1.00	1.69	-0.92	3.11	-1.29	-166.40	82.31	-75.20
3137	3	1.01	0.28	-0.69	1.55	-0.95	4.21	-1.63	-135.22	89.24	-79.04
3137	4	0.54	0.33	-1.88	0.82	-0.51	3.04	-2.77	-119.84	104.43	-47.60
3138	1	0.25	0.07	0.40	2.07	-1.02	3.13	-2.57	-183.43	54.21	-96.35
3138	2	0.80	0.06	2.54	2.17	-0.69	3.60	-2.31	-219.47	-14.94	-107.99
3138	3	0.83	0.24	2.81	1.51	-0.79	3.81	-1.54	-235.66	-17.40	-87.15
3138	4	0.35	0.25	0.75	1.68	-1.12	3.52	-3.13	-172.49	40.49	-82.01
3139	1	0.27	0.16	-2.73	-1.68	0.02	2.41	-4.01	-19.53	85.91	-64.31
3139	2	0.66	0.13	-2.16	-0.20	-0.70	2.55	-2.57	-28.34	88.39	-88.25
3139	3	0.89	0.48	-2.06	0.07	-0.04	10.03	-3.57	125.48	74.27	-89.51
3139	4	0.57	0.60	-3.35	-1.35	1.27	8.61	-4.95	145.47	105.56	-115.22
3140	1	0.24	0.10	-1.56	0.72	-1.02	2.97	-2.23	-44.16	95.48	-90.96
3140	2	0.65	0.08	-0.07	1.04	-1.37	3.92	-1.58	-79.54	41.45	-94.32
3140	3	0.78	0.31	0.67	0.54	-0.87	11.68	-2.32	-46.02	11.68	-35.52
3140	4	0.44	0.38	-1.16	0.37	-0.46	10.10	-4.36	64.81	51.13	-66.35
3141	1	0.20	0.07	1.24	1.15	-1.31	4.00	-2.95	-152.89	25.18	-68.44
3141	2	0.62	0.06	3.17	0.84	-0.71	4.13	-1.63	-247.63	-25.09	-76.21
3141	3	0.63	0.24	3.52	0.18	-0.31	7.72	-0.24	-303.91	-17.49	-26.27
3141	4	0.29	0.26	1.73	0.38	-0.88	10.27	-3.02	-140.35	11.97	-5.58
3142	1	0.20	0.06	3.88	2.41	0.05	1.94	-3.44	-244.56	-59.59	-109.10
3142	2	0.75	0.07	4.21	2.95	0.67	0.11	-4.59	-237.73	-101.80	-98.05
3142	3	0.65	0.25	4.25	1.85	0.77	0.14	-3.20	-283.66	-95.63	-111.18
3142	4	0.17	0.24	4.05	1.52	0.06	2.43	-3.24	-283.90	-52.63	-102.10
3143	1	0.15	0.08	3.55	3.25	0.69	-1.23	-5.74	-219.74	-101.14	-83.86
3143	2	0.70	0.09	2.47	2.96	0.21	-2.71	-6.97	-195.56	-78.38	-54.78
3143	3	0.46	0.33	2.39	1.91	0.45	-2.29	-6.64	-235.51	-118.14	-71.50
3143	4	-0.01	0.28	3.58	2.25	0.93	-1.34	-4.67	-271.40	-115.11	-107.08
3144	1	0.10	0.10	1.60	2.34	-0.26	-3.12	-7.16	-115.72	-79.21	-45.60
3144	2	0.64	0.13	0.34	1.20	-0.84	-3.02	-7.15	-221.75	-1.02	-45.84
3144	3	0.23	0.47	0.41	-0.06	-0.82	-2.60	-6.49	-186.86	-55.99	-63.05
3144	4	-0.21	0.38	1.44	1.16	-0.15	-3.48	-6.92	-193.92	-89.35	-76.10
3145	1	0.16	0.06	4.23	0.93	-0.13	2.70	-2.30	-330.96	-32.94	-72.11

3145	2	0.58	0.07	4.50	1.13	0.68	0.06	-2.65	-356.57	-76.35	-102.90	3159	4	0.21	1.19	-4.18	-19.63	0.11	0.23	6.57	-114.80	19.18	15.63
3145	3	0.49	0.26	4.82	0.37	0.80	0.36	-0.91	-462.93	-41.90	-97.85	3160	1	0.21	0.28	-4.97	-23.77	-0.02	0.12	-3.21	-121.03	20.16	0.70
3145	4	0.14	0.24	4.43	0.22	-0.10	5.42	-1.21	-392.47	-5.61	-26.39	3160	2	0.79	0.28	-4.93	-23.73	-0.03	0.12	-3.16	-124.63	19.97	0.66
3146	1	0.12	0.08	3.97	1.27	0.78	-2.47	-3.15	-352.98	-81.51	-93.28	3160	3	0.79	1.06	-5.34	-25.67	-0.01	-0.21	-1.84	-123.40	20.02	5.68
3146	2	0.53	0.10	2.53	1.07	0.48	-3.90	-5.06	-304.31	-99.87	-95.58	3160	4	0.21	1.06	-5.37	-25.71	0.00	0.33	-1.82	-119.54	20.10	5.64
3146	3	0.32	0.38	2.75	0.40	0.92	-4.27	-3.00	-431.38	-84.53	-160.29	3161	1	0.30	0.21	0.80	-0.13	0.56	-2.39	1.17	-6.14	-267.67	1.91
3146	4	-0.01	0.31	4.48	0.46	0.91	-1.91	-0.97	-484.52	-48.58	-107.67	3161	2	1.10	0.21	0.02	-0.23	0.38	0.24	-1.33	-2.50	-278.42	2.73
3147	1	0.07	0.13	1.25	0.60	-0.14	-5.19	-5.33	-292.29	-80.41	-59.65	3161	3	1.10	0.79	0.01	-0.36	0.43	-0.41	-1.35	-1.73	-278.07	-0.60
3147	2	0.46	0.16	-0.33	-0.53	-0.97	-5.64	-6.95	-230.59	-73.99	-45.68	3161	4	0.30	0.79	0.70	-0.20	0.54	-1.49	0.46	-5.44	-265.53	-0.55
3147	3	0.16	0.60	-0.91	-0.90	-1.03	-6.60	-5.95	-327.60	-113.10	-150.61	3162	1	0.23	0.21	3.89	0.23	0.69	-3.41	0.69	-14.98	-260.70	12.86
3147	4	-0.16	0.48	1.41	0.20	0.26	-5.96	-3.40	-412.00	-87.00	-140.77	3162	2	0.86	0.21	1.90	0.08	0.59	-1.65	-1.86	-11.94	-262.99	7.35
3148	1	0.13	0.21	0.93	-1.40	0.64	3.99	-1.42	20.36	-181.31	-6.60	3162	3	0.86	0.79	1.68	0.03	0.64	-2.04	-1.51	-8.32	-258.20	2.20
3148	2	0.47	0.21	2.03	-1.02	0.47	3.25	-2.43	14.76	-211.36	-9.06	3162	4	0.23	0.79	3.49	0.17	0.99	-3.30	0.39	-11.94	-252.19	10.77
3148	3	0.47	0.79	1.60	-1.60	0.77	1.81	-1.66	34.51	-213.51	9.73	3163	1	0.09	0.21	-5.21	-0.12	0.68	-2.98	1.14	-16.02	-263.92	-17.04
3148	4	0.13	0.79	0.98	-1.88	0.83	2.88	0.00	51.07	-178.23	8.45	3163	2	0.33	0.21	-6.07	-0.20	0.40	-2.71	-3.76	-15.53	-270.27	-20.58
3149	1	0.09	0.21	2.61	-0.69	0.27	3.75	-2.48	10.60	-227.74	-8.00	3163	3	0.33	0.79	-5.55	-0.25	0.72	-2.72	-6.49	-12.87	-256.09	-24.62
3149	2	0.32	0.21	3.34	-0.53	0.07	3.54	-2.58	5.89	-245.51	-4.90	3163	4	0.09	0.79	-4.72	-0.20	1.19	-2.60	2.63	-13.37	-252.95	-17.18
3149	3	0.32	0.79	2.39	-1.30	0.32	2.69	-4.28	15.76	-252.90	13.25	3164	1	0.09	0.21	5.23	-0.74	0.52	4.38	4.06	-8.51	-275.18	27.64
3149	4	0.09	0.79	1.93	-1.46	0.67	2.72	-0.48	25.98	-232.44	11.69	3164	2	0.35	0.21	6.07	-0.52	0.51	4.19	-4.42	-13.12	-272.68	23.86
3150	1	0.09	0.21	-5.05	0.24	-0.20	4.78	0.17	-3.28	-265.19	-3.91	3164	3	0.35	0.79	5.62	-0.29	1.05	3.08	-6.97	-10.84	-256.93	30.79
3150	2	0.33	0.21	-4.02	0.48	-0.19	5.03	3.42	0.50	-255.49	1.35	3164	4	0.09	0.79	5.05	-0.49	1.04	3.23	9.02	-6.89	-258.22	41.40
3150	3	0.33	0.79	-3.13	1.31	0.18	6.90	-0.51	6.71	-263.89	-14.82	3165	1	0.09	0.21	-4.35	1.31	0.55	7.01	4.68	0.74	-272.43	-30.50
3150	4	0.09	0.79	-4.60	1.05	0.17	6.69	2.66	-1.06	-273.48	-16.31	3165	2	0.33	0.21	-2.80	1.65	0.54	7.74	-4.52	9.91	-263.96	-33.03
3151	1	0.09	0.21	5.55	-0.01	-0.26	1.76	-3.03	-7.81	-269.53	7.97	3165	3	0.33	0.79	-3.15	1.13	0.97	6.40	-10.29	9.37	-249.53	-59.61
3151	2	0.35	0.21	5.87	0.15	-0.28	1.93	0.67	-9.89	-271.09	12.50	3165	4	0.09	0.79	-4.40	0.89	1.00	5.58	6.68	0.15	-256.12	-49.12
3151	3	0.35	0.79	6.14	-0.38	0.13	3.67	-1.74	-12.57	-275.59	18.03	3166	1	0.09	0.21	1.79	-1.54	0.97	2.14	1.67	34.11	-234.16	35.53
3151	4	0.09	0.79	5.38	-0.52	0.14	3.80	0.39	-8.36	-276.84	17.48	3166	2	0.32	0.21	2.11	-1.50	0.53	1.50	-5.07	21.22	-254.04	34.59
3152	1	0.09	0.21	-4.90	-0.32	-0.11	-2.58	0.25	-11.26	-268.27	-16.98	3166	3	0.32	0.79	2.58	-0.95	0.73	0.77	-5.35	19.31	-242.58	66.31
3152	2	0.33	0.21	-5.73	-0.41	-0.07	-2.96	0.49	-10.68	-270.93	-15.13	3166	4	0.09	0.79	2.34	-1.00	1.24	1.76	4.79	33.81	-227.89	71.67
3152	3	0.33	0.79	-6.12	-0.29	0.16	-2.78	-1.43	-14.45	-273.79	-18.14	3167	1	0.13	0.21	1.26	-1.87	0.99	1.78	1.81	70.90	-181.21	32.77
3152	4	0.09	0.79	-5.25	-0.20	0.27	-3.06	1.40	-15.32	-269.35	-17.16	3167	2	0.47	0.21	1.64	-1.73	0.94	0.80	-0.82	49.50	-216.77	35.13
3153	1	0.23	0.21	3.63	0.25	0.22	-3.52	0.96	-10.53	-267.91	16.21	3167	3	0.47	0.79	2.20	-0.91	1.04	0.31	0.89	48.12	-215.76	76.11
3153	2	0.86	0.21	1.80	0.00	0.41	-2.67	-0.97	-7.54	-272.45	13.88	3167	4	0.13	0.79	1.92	-1.02	1.11	1.56	3.28	71.03	-188.14	73.00
3153	3	0.86	0.79	1.89	0.07	0.53	-2.46	0.37	-10.27	-262.16	9.39	3168	1	0.18	0.21	-23.88	-4.03	0.50	4.16	2.97	-31.11	-167.27	23.35
3153	4	0.23	0.79	3.88	0.19	0.43	-3.42	0.95	-14.18	-265.44	14.52	3168	2	0.67	0.21	-22.52	-3.15	1.88	3.40	4.66	-56.67	-184.79	33.32
3154	1	0.30	0.17	0.93	-0.07	0.47	-0.27	1.64	-3.07	-276.65	10.16	3168	3	0.67	0.79	-19.55	-3.29	2.50	3.34	3.24	-86.61	-204.21	71.47
3154	2	1.10	0.05	0.15	-0.21	0.53	-2.00	-0.96	2.09	-261.33	-1.18	3168	4	0.18	0.79	-21.98	-3.94	0.59	6.25	1.99	-50.57	-177.34	59.62
3154	3	1.10	0.63	0.06	-0.30	0.40	-0.90	-0.57	-3.05	-280.97	6.02	3169	1	0.21	0.21	-27.65	-2.98	-0.45	3.63	-0.17	13.85	-165.19	22.21
3154	4	0.30	0.75	0.93	-0.02	0.56	-1.16	-0.38	-6.66	-271.75	5.79	3169	2	0.78	0.21	-25.45	-2.43	-0.32	4.36	1.57	-9.27	-238.26	18.05
3155	1	0.18	0.21	-25.79	-4.38	-0.36	4.41	1.99	25.35	-156.10	-4.88	3169	3	0.78	0.79	-24.05	-2.53	-0.40	4.44	2.46	-22.46	-244.06	54.40
3155	2	0.67	0.21	-24.57	-3.16	-0.02	3.56	1.92	22.84	-161.44	1.12	3169	4	0.21	0.79	-27.15	-2.80	-0.69	3.56	-2.78	9.66	-162.59	43.65
3155	3	0.67	0.79	-23.91	-3.09	1.06	3.25	0.77	-23.34	-174.70	14.08	3170	1	0.21	0.34	0.85	7.38	0.37	0.00	15.68	-106.89	20.08	32.71
3155	4	0.18	0.79	-24.95	-4.13	0.22	4.05	1.14	-6.89	-163.63	4.66	3170	2	0.79	0.34	0.72	7.44	0.25	0.00	15.18	-111.10	21.30	33.13
3156	1	0.21	0.21	-28.61	-4.54	-0.99	4.78	-2.03	21.88	-204.69	6.96	3170	3	0.79	1.28	3.51	22.41	0.20	-0.83	16.19	-79.27	13.86	41.36
3156	2	0.78	0.21	-26.82	-3.58	-1.40	3.86	3.24	23.66	-235.31	-7.17	3170	4	0.21	1.28	3.82	22.64	0.22	-1.21	16.60	-80.11	13.54	32.44
3156	3	0.78	0.79	-26.30	-2.87	-0.65	4.14	4.01	4.13	-232.98	0.16	3171	1	0.21	0.29	-3.06	-13.48	0.14	0.50	13.20	-119.47	20.43	20.79
3156	4	0.21	0.79	-28.15	-3.62	-0.55	4.31	-0.71	16.34	-182.54	11.64	3171	2	0.79	0.29	-3.05	-13.41	0.04	0.00	13.41	-124.12	20.19	20.17
3157	1	0.21	0.34	1.27	7.31	0.43	-0.16	16.06	-101.41	14.49	30.06	3171	3	0.79	1.09	-1.01	-2.19	0.11	0.37	14.61	-118.14	21.15	27.51
3157	2	0.79	0.34	1.05	7.37	0.42	0.05	15.71	-102.95	18.38	31.91	3171	4	0.21	1.09	-0.96	-2.28	0.22	-0.39	14.60	-112.38	20.48	27.06
3157	3	0.79	1.28	4.04	22.86	0.25	-1.44	17.60	-84.65	12.78	27.82	3172	1	0.21	0.32	-5.13	-24.57	0.01	0.53	4.99	-124.85	19.94	9.72
3157	4	0.21	1.28	4.51	23.20	0.27	-1.59	17.83	-94.39	11.90	24.82	3172	2	0.79	0.32	-5.08	-24.52	-0.03	-0.20	5.03	-128.83	19.34	9.48
3158	1	0.21	0.29	-2.98	-13.62	0.21	0.49	13.35	-111.50	18.45	20.22	3172	3	0.79	1.19	-4.15	-19.47	0.01	-0.39	6.37	-126.13	19.89	15.77
3158	2	0.79	0.29	-3.04	-13.55	0.19	-0.11	13.43	-115.82	19.80	20.88	3172	4	0.21	1.19	-4.19	-19.52	0.06	0.43	6.56	-122.04	20.10	15.98
3158	3	0.79	1.09	-0.85	-2.33	0.25	-0.36	14.58	-111.03	18.73	26.60	3173	1	0.21	0.28	-4.90	-23.71	-0.04	0.12	-3.20	-127.36	19.68	0.59
3158	4	0.21	1.09	-0.71	-2.39	0.25	-0.15	14.88	-105.27	16.98	25.55	3173	2	0.79	0.28	-4.84	-23.69	-0.05	0.12	-3.24	-131.03	19.04	0.48
3159	1	0.21	0.32	-5.17	-24.65	0.05	0.54	4.99	-117.93	19.90	9.58	3173	3	0.79	1.06	-5.25	-25.62	-0.04	-0.11	-1.81	-129.93	19.19	5.56
3159	2	0.79	0.32	-5.15	-24.61	0.04	-0.19	4.99	-121.87	20.02	9.77	3173	4	0.21	1.06	-5.31	-25.65	-0.02	0.35	-1.84	-126.08	19.81	5.62
3159	3	0.79	1.19	-4.19	-19.56	0.09	-0.34	6.49	-118.67	19.90	15.94	3174	1	0.30	0.21	0.60	-0.29	0.52	-1.15	0.34	-2.70	-264.55	-1.98

3174	2	1.10	0.21	0.01	-0.50	0.37	-0.31	-1.33	-0.34	-279.55	-2.19	3188	4	0.23	0.79	0.96	0.11	0.46	-1.70	-0.01	16.96	-216.74	9.92
3174	3	1.10	0.79	0.00	-0.70	0.32	-0.24	-1.18	0.38	-282.13	-2.21	3189	1	0.09	0.21	-1.99	-0.61	1.22	-3.13	2.65	9.93	-207.93	-15.05
3174	4	0.30	0.79	0.38	-0.50	0.43	-1.12	0.20	1.54	-263.51	-2.49	3189	2	0.33	0.21	-2.63	-0.86	0.75	-3.45	-6.33	8.63	-193.13	-23.27
3175	1	0.23	0.21	2.98	0.19	1.13	-2.61	0.13	-6.83	-244.09	9.13	3189	3	0.33	0.79	-1.86	-1.00	0.40	-4.51	-4.09	14.91	-176.96	-17.69
3175	2	0.86	0.21	1.39	-0.09	0.68	-2.26	-1.84	-4.23	-254.44	-0.10	3189	4	0.09	0.79	-1.25	-0.73	0.58	-2.67	1.33	17.59	-197.11	-13.82
3175	3	0.86	0.79	1.01	-0.22	0.62	-1.49	-1.84	2.34	-249.49	-0.31	3190	1	0.09	0.21	5.11	2.39	1.14	-7.71	11.14	-1.52	-168.07	46.12
3175	4	0.23	0.79	2.12	0.15	1.10	-2.56	-0.05	2.88	-232.07	8.23	3190	2	0.35	0.21	3.51	1.91	1.15	-7.31	-7.31	2.89	-183.29	31.23
3176	1	0.09	0.21	-3.99	-0.25	1.45	-3.17	2.52	-7.57	-239.79	-17.06	3190	3	0.35	0.79	2.91	2.48	0.57	-9.32	-3.95	9.39	-162.18	21.19
3176	2	0.33	0.21	-4.78	-0.41	0.89	-2.89	-7.96	-7.40	-238.95	-26.01	3190	4	0.09	0.79	5.36	2.92	0.55	-10.33	3.96	1.20	-139.93	27.87
3176	3	0.33	0.79	-3.56	-0.65	0.91	-3.40	-8.48	1.40	-213.01	-25.85	3191	1	0.09	0.21	-6.16	-3.26	1.03	-4.79	5.18	-8.81	-161.59	-57.60
3176	4	0.09	0.79	-2.88	-0.52	1.47	-2.67	2.59	2.00	-222.30	-16.09	3191	2	0.33	0.21	-7.19	-3.38	0.98	-5.77	-11.42	-16.27	-157.00	-72.81
3177	1	0.09	0.21	4.97	0.22	1.32	0.82	12.16	-5.34	-235.44	49.34	3191	3	0.33	0.79	-8.68	-4.79	0.40	-9.23	-5.52	-26.45	-125.34	-44.96
3177	2	0.35	0.21	5.06	0.19	1.32	0.51	-8.73	-7.69	-237.77	34.98	3191	4	0.09	0.79	-6.88	-4.28	0.42	-9.31	2.99	-17.70	-132.04	-35.18
3177	3	0.35	0.79	4.15	1.23	1.40	-3.21	-8.62	-0.84	-206.30	35.43	3192	1	0.09	0.21	6.42	3.60	0.61	3.01	6.04	-35.09	-171.10	96.70
3177	4	0.09	0.79	5.01	1.29	1.39	-3.76	12.63	-2.58	-197.14	50.99	3192	2	0.32	0.21	7.34	3.72	0.47	3.69	-1.63	-25.45	-160.87	83.56
3178	1	0.09	0.21	-4.73	-0.06	1.27	3.03	7.41	-1.14	-232.33	-61.29	3192	3	0.32	0.79	8.98	4.76	0.12	4.42	-0.46	-42.76	-130.91	59.73
3178	2	0.33	0.21	-3.98	0.12	1.22	3.45	-13.63	4.55	-227.47	-75.76	3192	4	0.09	0.79	7.74	4.55	0.04	4.58	2.70	-49.03	-143.67	56.68
3178	3	0.33	0.79	-5.79	-1.96	1.21	-1.60	-14.52	-9.14	-188.90	-83.04	3193	1	0.13	0.21	3.42	3.75	0.13	4.04	3.13	-56.71	-218.98	110.42
3178	4	0.09	0.79	-5.40	-1.85	1.26	-1.50	6.93	-5.45	-192.46	-64.26	3193	2	0.47	0.21	5.28	3.65	0.23	4.80	2.27	-44.07	-183.14	106.61
3179	1	0.09	0.21	3.33	0.25	1.27	1.63	7.02	19.27	-216.81	97.22	3193	3	0.47	0.79	6.38	4.44	-0.23	6.30	0.50	-64.19	-160.21	78.82
3179	2	0.32	0.21	3.65	0.22	0.80	1.15	-4.45	10.05	-223.00	86.38	3193	4	0.13	0.79	4.14	4.22	-0.46	5.71	0.96	-96.74	-205.74	82.77
3179	3	0.32	0.79	5.66	2.18	0.68	1.86	-3.08	-6.99	-187.39	93.82	3194	1	0.18	0.21	-19.34	-4.65	-1.64	5.62	-1.61	-10.44	-191.06	151.68
3179	4	0.09	0.79	4.98	2.12	0.98	2.42	7.75	-12.16	-190.94	109.81	3194	2	0.67	0.21	-14.29	-5.92	-2.14	7.32	-3.75	-13.12	-202.39	138.25
3180	1	0.13	0.21	2.44	0.26	1.12	1.60	4.19	46.40	-194.04	103.01	3194	3	0.67	0.79	-17.29	-5.29	-4.06	7.39	-5.39	12.56	-167.70	113.94
3180	2	0.47	0.21	2.97	0.22	1.00	1.12	1.87	28.38	-209.87	102.49	3194	4	0.18	0.79	-20.74	-5.11	-2.72	5.42	-0.09	-19.30	-182.98	141.69
3180	3	0.47	0.79	4.29	2.31	0.67	2.96	2.48	-12.97	-197.60	114.72	3195	1	0.21	0.21	-26.62	-4.27	-3.07	2.21	-11.67	26.53	-246.36	90.77
3180	4	0.13	0.79	2.89	2.40	0.74	2.70	4.27	-10.62	-209.74	119.08	3195	2	0.78	0.21	-22.31	-4.72	-3.88	5.22	5.39	9.24	-308.26	141.17
3181	1	0.18	0.21	-20.29	-3.96	0.37	4.12	1.47	-51.27	-184.01	92.73	3195	3	0.78	0.79	-23.47	-7.53	-5.43	5.91	1.88	-17.70	-324.51	171.61
3181	2	0.67	0.21	-16.95	-4.25	2.29	7.33	3.41	-86.79	-216.54	103.12	3195	4	0.21	0.79	-27.10	-6.48	-4.07	-0.13	-21.28	-6.10	-304.91	95.58
3181	3	0.67	0.79	-14.14	-5.60	0.25	7.71	1.26	-53.60	-217.61	131.82	3196	1	0.21	0.34	1.10	7.98	-0.25	2.01	15.07	-132.87	15.78	34.53
3181	4	0.18	0.79	-19.17	-4.40	-0.60	4.99	2.85	-32.77	-193.02	134.60	3196	2	0.79	0.34	1.86	8.14	-0.58	3.42	16.56	-144.13	9.36	31.51
3182	1	0.21	0.21	-26.81	-3.06	-0.99	4.63	-4.20	7.93	-173.07	63.62	3196	3	0.79	1.28	4.40	23.65	0.04	3.52	11.21	-136.65	7.08	71.20
3182	2	0.78	0.21	-23.19	-3.16	-0.98	6.23	2.17	-23.79	-254.55	84.77	3196	4	0.21	1.28	3.48	22.66	0.14	-0.07	14.79	-110.01	10.86	60.01
3182	3	0.78	0.79	-22.53	-3.86	-2.49	6.20	1.46	-10.29	-277.73	114.08	3197	1	0.21	0.29	-2.68	-13.37	-0.16	1.13	13.14	-135.23	14.89	19.57
3182	4	0.21	0.79	-26.88	-3.88	-1.62	5.74	-8.00	11.05	-206.00	91.36	3197	2	0.79	0.29	-2.35	-13.22	-0.25	-0.23	13.41	-139.58	11.16	19.80
3183	1	0.21	0.34	0.73	7.55	0.13	1.06	15.37	-115.22	21.06	33.96	3197	3	0.79	1.09	-0.03	-2.20	-0.29	-0.21	16.29	-136.12	10.55	28.09
3183	2	0.79	0.34	0.90	7.84	0.01	-0.14	15.76	-123.40	19.35	35.29	3197	4	0.21	1.09	-0.62	-2.08	-0.25	-0.78	15.39	-131.33	14.46	26.01
3183	3	0.79	1.28	3.75	22.41	0.22	0.07	16.98	-99.88	11.86	54.84	3198	1	0.21	0.32	-4.83	-24.50	-0.08	0.42	5.24	-138.16	15.99	9.61
3183	4	0.21	1.28	3.56	22.35	0.19	0.24	16.05	-84.92	13.23	47.76	3198	2	0.79	0.32	-4.73	-24.50	-0.08	-0.45	5.13	-142.08	14.61	10.21
3184	1	0.21	0.29	-3.00	-13.40	-0.02	0.32	13.31	-127.07	19.58	19.79	3198	3	0.79	1.19	-3.62	-19.46	-0.12	0.37	6.49	-140.08	12.55	16.15
3184	2	0.79	0.29	-2.87	-13.44	-0.09	0.33	13.04	-131.51	17.53	19.72	3198	4	0.21	1.19	-3.76	-19.36	-0.18	0.79	6.51	-136.01	15.35	15.23
3184	3	0.79	1.09	-0.82	-2.08	-0.22	1.37	14.12	-128.28	17.29	25.64	3199	1	0.21	0.28	-4.66	-23.66	-0.06	0.11	-3.16	-140.22	16.53	0.36
3184	4	0.21	1.09	-0.94	-2.13	-0.02	-0.47	14.50	-122.68	20.34	27.08	3199	2	0.79	0.28	-4.58	-23.66	-0.08	0.12	-3.26	-144.20	15.50	0.40
3185	1	0.21	0.32	-5.01	-24.50	-0.06	0.54	5.00	-131.53	18.57	9.35	3199	3	0.79	1.06	-4.96	-25.58	-0.07	-0.07	-1.71	-143.18	15.19	5.95
3185	2	0.79	0.32	-4.90	-24.49	-0.08	0.08	5.05	-135.34	17.15	9.38	3199	4	0.21	1.06	-5.05	-25.59	-0.09	0.43	-1.87	-139.23	16.37	5.52
3185	3	0.79	1.19	-3.97	-19.36	-0.13	-0.60	6.73	-133.59	17.09	15.05	3200	1	0.30	0.21	0.07	-0.83	0.12	-0.57	-0.01	6.45	-255.18	9.23
3185	4	0.21	1.19	-4.13	-19.43	-0.04	0.76	6.47	-129.58	18.98	15.37	3200	2	1.10	0.21	-0.05	-0.99	0.13	-0.03	-0.15	-0.28	-282.25	2.33
3186	1	0.21	0.28	-4.79	-23.68	-0.05	0.14	-3.19	-133.73	18.39	0.42	3200	3	1.10	0.79	-0.06	-0.87	0.07	0.07	0.12	-1.66	-279.94	3.09
3186	2	0.79	0.28	-4.71	-23.66	-0.05	0.16	-3.14	-137.46	17.37	0.38	3200	4	0.30	0.79	0.10	-0.73	0.02	-0.86	0.81	6.66	-250.78	17.84
3186	3	0.79	1.06	-5.11	-25.60	-0.08	-0.27	-1.81	-136.45	17.33	5.45	3201	1	0.23	0.21	0.85	0.02	0.03	-1.32	0.46	19.64	-215.22	12.23
3186	4	0.21	1.06	-5.20	-25.60	-0.06	0.37	-1.80	-132.73	18.49	5.45	3201	2	0.86	0.21	0.43	-0.55	0.12	-1.23	-0.12	14.34	-244.30	11.88
3187	1	0.30	0.21	0.24	-0.63	0.35	-0.80	0.94	4.37	-261.03	-0.99	3201	3	0.86	0.79	0.58	-0.52	-0.08	-1.40	0.13	11.59	-243.30	17.63
3187	2	1.10	0.21	-0.03	-0.85	0.26	-0.13	-0.96	0.81	-284.35	-1.05	3201	4	0.23	0.79	1.15	-0.14	-0.39	-0.80	0.68	17.96	-218.44	15.61
3187	3	1.10	0.79	-0.04	-0.97	0.19	-0.13	-0.68	1.05	-284.12	1.13	3202	1	0.09	0.21	-0.98	-0.62	-0.07	-2.94	1.62	19.91	-194.43	-11.06
3187	4	0.30	0.79	0.11	-0.78	0.21	-0.60	0.55	6.08	-259.37	3.44	3202	2	0.33	0.21	-1.53	-0.89	0.00	-3.92	1.07	17.86	-170.41	-10.69
3188	1	0.23	0.21	1.54	0.18	0.90	-1.85	0.17	10.17	-224.18	8.57	3202	3	0.33	0.79	-1.77	-0.46	-0.46	-2.29	3.93	17.56	-184.11	-3.52
3188	2	0.86	0.21	0.71	-0.35	0.51	-1.64	-1.43	7.48	-247.99	1.53	3202	4	0.09	0.79	-1.33	-0.24	-0.77	-2.99	0.05	18.83	-201.61	-10.78
3188	3	0.86	0.79	0.48	-0.47	0.28	-1.37	-1.38	12.95	-243.99	6.96	3203	1	0.09	0.21	5.47	3.28	0.09	-12.84	2.10	-0.91	-134.27	14.23

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3232	2	0.47	0.12	22.60	1.07	2.64	-11.81	3.47	-274.80	-92.08	-163.03
3232	3	0.39	0.45	25.54	1.24	3.64	-17.47	0.75	-378.12	-48.36	-106.71
3232	4	0.12	0.44	30.75	0.71	1.84	-25.70	5.13	-270.30	-13.22	-63.18
3233	1	0.10	0.13	19.02	1.04	1.19	-12.25	3.35	-310.37	-113.82	-156.39
3233	2	0.43	0.14	14.20	0.97	1.25	-12.95	0.55	-301.24	-192.28	-163.81
3233	3	0.27	0.53	16.70	1.28	3.38	-7.82	-0.93	-478.51	-111.08	-176.39
3233	4	0.00	0.48	22.13	1.08	2.76	-13.18	1.76	-444.86	-54.27	-115.91
3234	1	0.06	0.16	11.44	0.57	0.40	-12.46	0.53	-296.52	-222.00	-157.41
3234	2	0.39	0.18	7.76	-0.13	0.62	-11.63	-2.50	-260.75	-293.87	-151.30
3234	3	0.14	0.67	9.63	0.54	2.07	-4.44	-0.11	-492.30	-213.12	-255.70
3234	4	-0.12	0.59	13.73	0.78	2.29	-6.42	0.15	-513.25	-133.18	-192.40
3235	1	0.16	0.12	-29.59	2.14	0.50	-4.57	-1.64	-193.32	-44.72	207.43
3235	2	0.61	0.12	-32.20	3.23	-0.19	-1.92	-2.05	-145.53	-30.49	119.53
3235	3	0.52	0.45	-33.13	2.94	0.65	-2.95	-5.12	-163.39	12.67	142.71
3235	4	0.14	0.44	-30.11	1.65	1.76	-6.77	-3.83	-185.21	-32.69	181.07
3236	1	0.12	0.12	-32.52	3.33	-0.85	0.55	-1.46	-185.29	-14.71	139.48
3236	2	0.57	0.13	-31.14	2.26	-1.60	0.58	-2.83	-151.97	-153.26	63.88
3236	3	0.36	0.50	-33.48	3.46	-2.92	-0.84	-0.16	-113.01	-54.64	67.54
3236	4	-0.01	0.47	-33.81	3.59	-0.72	-2.14	-3.89	-139.37	16.71	120.33
3237	1	0.08	0.14	-29.68	1.41	-2.04	1.72	-2.20	-121.63	-206.40	16.07
3237	2	0.52	0.16	-27.69	-0.09	-2.50	0.62	-0.02	-93.33	-276.95	-39.06
3237	3	0.19	0.58	-30.05	-0.29	-5.05	-5.34	-4.44	-62.38	-167.65	-18.43
3237	4	-0.18	0.53	-31.61	2.53	-3.92	-4.58	-1.97	-82.52	-96.19	22.83
3238	1	0.13	0.12	-30.31	0.04	4.42	-6.70	-7.15	-161.32	-26.69	157.12
3238	2	0.46	0.12	-33.46	1.76	3.74	-1.19	-8.93	-127.12	20.96	141.79
3238	3	0.39	0.45	-36.03	0.03	0.15	-39.56	-10.89	-41.44	14.34	56.38
3238	4	0.12	0.44	-33.28	-0.66	2.71	-32.26	-4.97	-172.94	-10.00	64.77
3239	1	0.10	0.13	-34.30	2.28	5.78	3.49	-7.86	-80.22	9.60	119.84
3239	2	0.43	0.14	-34.86	4.18	4.39	9.59	-7.49	-46.79	14.28	90.44
3239	3	0.27	0.53	-36.96	0.96	-1.75	-47.15	-15.62	113.03	37.34	70.79
3239	4	0.00	0.48	-36.79	0.26	0.93	-44.60	-12.27	43.27	23.51	67.01
3240	1	0.06	0.16	-34.30	4.30	5.62	15.94	-3.24	-36.35	-36.05	38.31
3240	2	0.39	0.18	-32.80	5.33	3.24	15.06	5.54	-30.14	-80.11	-18.86
3240	3	0.14	0.66	-35.03	2.93	-3.11	-41.59	-24.13	149.83	25.18	-61.64
3240	4	-0.11	0.59	-36.56	2.30	-0.48	-47.97	-17.59	151.16	36.84	70.78
3241	1	0.36	0.12	-1.38	-27.65	3.65	-0.70	0.62	-278.41	-81.39	55.06
3241	2	0.90	0.10	-1.78	-26.60	5.94	1.46	0.86	-273.11	-21.80	69.04
3241	3	1.21	0.37	-0.53	-28.23	7.93	-2.46	0.51	-180.63	18.86	22.69
3241	4	0.76	0.46	0.26	-27.32	4.78	-3.70	1.96	-193.64	-42.98	32.85
3242	1	0.30	0.09	-1.94	-26.49	8.45	2.97	1.90	-206.59	-12.54	21.90
3242	2	0.85	0.07	-1.95	-21.76	10.43	3.52	2.20	-246.36	12.81	-68.56
3242	3	1.01	0.27	-2.69	-21.87	13.73	1.81	5.80	-226.53	44.53	-69.42
3242	4	0.54	0.32	0.16	-26.39	9.93	1.60	-1.19	-190.79	34.16	-2.93
3243	1	0.25	0.07	-4.78	-21.27	12.85	9.40	11.00	-304.76	24.87	-110.88
3243	2	0.80	0.06	-5.86	-15.29	8.31	-4.41	11.22	-361.67	-25.96	-127.81
3243	3	0.83	0.22	-6.85	-10.66	8.40	-5.02	10.12	-387.51	-27.91	-101.87
3243	4	0.35	0.24	-4.60	-16.60	13.77	1.77	13.60	-293.65	26.25	-84.89
3244	1	0.27	0.16	-3.60	-27.38	16.20	11.14	-7.22	-117.39	18.57	-19.84
3244	2	0.66	0.13	-5.28	-22.60	18.88	14.87	-0.06	-115.05	41.77	-46.51
3244	3	0.89	0.47	-11.53	-14.20	15.50	-57.37	21.94	58.89	58.68	-60.86
3244	4	0.57	0.59	-7.63	-20.93	16.60	-41.46	25.98	85.44	69.66	-77.20
3245	1	0.24	0.10	-4.89	-21.50	18.48	9.10	7.78	-127.44	58.10	-60.97
3245	2	0.65	0.08	-9.04	-13.23	17.93	-2.67	8.97	-175.34	18.99	-90.77
3245	3	0.78	0.30	-12.77	-4.66	10.64	-66.96	18.13	-141.60	5.76	-25.17
3245	4	0.44	0.37	-10.64	-11.29	13.86	-63.30	22.39	-1.27	31.96	-43.28
3246	1	0.20	0.07	-7.62	-11.26	14.23	-5.65	17.44	-275.00	13.94	-70.73
3246	2	0.62	0.06	-8.87	-5.33	7.56	-9.27	11.58	-407.48	-38.72	-92.11
3246	3	0.64	0.23	-8.69	-0.54	2.43	-35.30	5.09	-479.77	-20.86	-30.28
3246	4	0.29	0.25	-10.32	-4.85	8.07	-57.74	16.75	-262.72	7.34	10.65
3247	1	0.20	0.06	-6.80	-8.55	3.06	-4.34	6.34	-403.00	-72.39	-121.59
3247	2	0.75	0.07	-6.57	-13.27	-0.51	-3.42	12.00	-373.12	-106.03	-97.16
3247	3	0.65	0.24	-7.24	-9.22	-1.73	-6.50	11.23	-437.28	-106.32	-118.90
3247	4	0.17	0.22	-7.65	-5.57	2.20	-4.44	8.77	-449.68	-69.54	-115.67
3248	1	0.15	0.07	-4.59	-16.67	-1.42	-6.70	3.13	-338.58	-118.46	-75.82
3248	2	0.70	0.09	-3.39	-20.21	-1.52	-3.58	6.99	-283.66	-108.30	-35.65
3248	3	0.46	0.32	-3.14	-18.31	-2.81	-4.44	2.46	-326.31	-130.21	-81.69
3248	4	-0.01	0.27	-5.34	-13.91	-3.23	-5.29	6.64	-393.20	-129.66	-111.71
3249	1	0.10	0.10	-3.34	-21.85	-1.09	-2.86	0.83	-242.23	-96.99	-3.89
3249	2	0.64	0.12	-3.29	-23.56	-0.27	-1.12	3.69	-202.52	-80.17	26.38
3249	3	0.24	0.46	-2.23	-21.18	-1.33	0.25	3.54	-225.96	-118.58	-35.47
3249	4	-0.21	0.37	-3.00	-20.50	-2.50	-0.13	3.00	-277.33	-129.68	-58.67
3250	1	0.16	0.06	-8.24	-3.41	2.37	-6.30	7.30	-504.85	-45.38	-77.10
3250	2	0.58	0.07	-8.30	-5.67	-2.16	-6.65	11.72	-516.08	-86.35	-114.67
3250	3	0.49	0.25	-9.32	-2.09	-2.29	-0.53	6.57	-642.64	-50.45	-127.10
3250	4	0.14	0.23	-8.46	-0.55	1.77	-23.00	3.58	-587.83	-13.53	-30.76
3251	1	0.12	0.08	-8.07	-8.51	-5.51	-2.32	9.50	-486.92	-93.36	-91.40
3251	2	0.53	0.10	-5.76	-14.44	-8.16	-11.17	9.22	-406.41	-119.36	-95.88
3251	3	0.33	0.37	-8.47	-6.47	-7.31	22.94	12.03	-533.66	-102.08	-187.24
3251	4	-0.01	0.30	-9.90	-2.07	-4.02	13.36	7.34	-641.57	-54.94	-126.83
3252	1	0.07	0.13	-5.42	-16.11	-9.42	-12.15	2.60	-358.32	-112.43	-59.73
3252	2	0.46	0.16	-4.35	-19.98	-9.09	-10.23	-2.13	-285.19	-117.51	-51.24
3252	3	0.16	0.59	-6.73	-14.14	-10.63	20.19	16.49	-380.48	-143.45	-182.67
3252	4	-0.16	0.47	-9.03	-9.06	-8.96	25.58	12.52	-494.54	-102.22	-165.85
3253	1	0.29	0.16	-23.31	-2.43	-0.24	1.49	2.42	-85.35	-172.37	-22.34
3253	2	0.74	0.14	-23.66	-1.19	0.09	0.85	-0.11	-104.66	-132.85	18.52
3253	3	1.00	0.53	-23.55	-0.55	2.28	6.98	0.51	-146.09	-177.10	79.22
3253	4	0.63	0.58	-22.96	-2.55	1.98	7.91	-2.11	-121.86	-195.43	38.75
3254	1	0.25	0.13	-24.07	-0.35	0.45	1.04	-0.70	-117.76	-101.90	59.29
3254	2	0.69	0.12	-24.45	0.98	0.84	1.92	0.35	-163.33	-159.01	155.70
3254	3	0.83	0.47	-24.54	1.20	1.44	4.43	-1.11	-152.46	-119.19	120.81
3254	4	0.45	0.50	-24.45	0.49	2.25	3.10	1.56	-147.24	-142.78	106.00
3255	1	0.20	0.12	-23.84	1.35	0.92	2.98	-0.47	-99.81	-71.26	100.57
3255	2	0.65	0.12	-21.40	1.01	0.95	5.21	-0.23	-123.53	-16.89	137.37
3255	3	0.68	0.44	-21.51	0.81	0.16	6.51	-1.21	-153.87	-42.57	140.95
3255	4	0.29	0.45	-23.98	1.29	0.77	3.56	-2.73	-157.85	-88.86	120.40
3256	1	0.22	0.18	-23.09	0.69	-2.45	-11.82	7.09	-194.23	-185.30	93.86
3256	2	0.54	0.16	-24.33	1.02	-3.27	-13.05	0.39	-219.31	-131.40	104.31
3256	3	0.72	0.59	-25.97	0.80	0.89	29.90	-9.97	-367.27	-91.92	139.22
3256	4	0.46	0.66	-24.10	0.63	2.59	25.11	-12.10	-352.23	-142.17	176.56
3257	1	0.19	0.14	-25.14	1.52	-2.10	-7.48	-2.52	-231.01	-135.14	128.75
3257	2	0.52	0.13	-24.94	0.98	-2.79	-4.37	-3.99	-211.81	-80.10	109.80
3257	3	0.62	0.48	-26.48	0.11	-0.11	28.87	-7.86	-314.69	-43.92	83.38
3257	4	0.35	0.53	-26.46	0.23	1.74	29.56	-9.78	-336.30	-80.00	124.53
3258	1	0.16	0.12	-24.12	0.82	-1.32	0.67	-5.40	-194.24	-70.74	122.64
3258	2	0.50	0.12	-21.64	-0.01	-1.71	5.02	-4.16	-164.60	-32.89	111.95
3258	3	0.51	0.44	-23.37	-0.42	-1.25	20.30	-3.27	-185.49	-10.12	43.16
3258	4	0.23	0.45	-25.73	-0.13	0.49	25.03	-7.31	-262.55	-29.99	75.14
3259	1	0.17	0.12	-18.27	0.39	0.93	7.04	-0.72	-104.31	-17.46	107.59
3259	2	0.62	0.12	-13.33	-0.67	0.98	7.86	0.45	-94.68	-42.52	95.98
3259	3	0.53	0.45	-14.36	-0.64	-0.26	7.57	0.81	-96.60	-13.90	89.21
3259	4	0.14	0.44	-18.69	0.16	-0.18	7.20	-2.91	-112.73	-35.53	117.40
3260	1	0.12	0.12	-9.63	-1.19	1.10	7.82	-0.91	-85.25	-72.13	68.06
3260	2	0.58	0.13	-5.41	-1.52	1.20	6.98	-0.18	-61.92	-113.48	29.56
3260	3	0.37	0.50	-7.00	-1.86	0.25	5.47	1.07	-60.85	-65.30	26.79
3260	4	-0.02	0.47	-10.88	-1.22	-0.11	7.93	-0.82	-80.04	-21.94	62.90
3261	1	0.08	0.14	-2.99	-1.43	1.27	6.20	-2.04	-46.09	-149.34	7.88

3261	2	0.53	0.16	-0.37	-1.18	1.17	4.67	-1.98	-27.10	-197.18	-0.32	3275	4	-0.01	0.31	1.41	-0.35	-1.03	9.92	1.52	-823.90	-81.72	-197.48
3261	3	0.19	0.59	-2.14	-2.06	1.03	3.73	-1.52	-31.42	-153.26	-14.18	3276	1	0.07	0.13	-0.28	-2.50	-3.08	-7.16	-6.12	-531.66	-144.66	-101.24
3261	4	-0.18	0.53	-4.58	-2.02	0.63	6.50	-0.16	-46.16	-93.87	7.16	3276	2	0.46	0.16	-1.57	-4.43	-3.37	-6.91	-8.76	-443.86	-145.68	-73.30
3262	1	0.13	0.12	-19.09	-0.29	-0.33	7.93	-4.58	-114.77	-25.75	101.88	3276	3	0.16	0.60	-2.69	-4.16	-3.72	-1.00	-2.47	-555.88	-198.18	-258.84
3262	2	0.47	0.12	-15.03	-0.84	-0.51	9.69	-0.97	-85.98	0.48	81.85	3276	4	-0.16	0.48	-1.08	-1.97	-2.30	2.60	-0.54	-711.98	-144.08	-240.88
3262	3	0.39	0.45	-16.80	-0.77	-1.81	10.69	0.24	-36.01	6.63	31.83	3277	1	0.13	0.21	1.27	-0.82	0.80	3.88	-4.71	11.66	-256.32	42.13
3262	4	0.12	0.44	-21.07	-0.45	-0.63	15.65	-3.75	-118.39	-7.65	42.56	3277	2	0.47	0.21	2.53	-0.47	0.21	2.60	-5.29	-51.16	-668.01	207.16
3263	1	0.10	0.13	-11.89	-1.18	0.29	10.14	-1.38	-51.88	-12.26	65.78	3277	3	0.47	0.79	0.71	-1.78	0.58	1.60	-2.84	37.46	-381.18	-25.08
3263	2	0.43	0.14	-7.98	-1.72	0.15	8.78	1.43	-33.52	-28.30	34.47	3277	4	0.13	0.79	0.19	-2.08	0.99	1.43	-2.78	45.01	-317.37	18.80
3263	3	0.27	0.53	-9.57	-1.03	-1.70	6.33	1.99	51.98	9.78	25.81	3278	1	0.09	0.21	3.52	0.01	-0.46	7.82	-6.60	-31.36	-706.71	-282.23
3263	4	0.00	0.48	-13.88	-0.65	-1.22	8.77	-0.56	12.89	7.16	34.05	3278	2	0.32	0.21	4.52	0.58	-0.49	8.04	1.32	33.37	-330.05	-136.17
3264	1	0.06	0.16	-5.50	-2.17	0.47	6.79	-0.15	-40.00	-46.80	12.93	3278	3	0.32	0.79	2.19	-1.15	-0.11	6.36	-2.92	42.39	-408.92	-50.72
3264	2	0.39	0.18	-2.93	-2.74	0.36	5.58	0.96	-34.20	-84.19	-22.06	3278	4	0.09	0.79	1.08	-1.49	0.14	5.40	-4.28	70.04	-420.80	-17.89
3264	3	0.14	0.67	-4.21	-1.87	-1.29	4.91	3.44	59.14	-0.29	18.66	3279	1	0.09	0.21	-5.90	-1.63	-0.85	-0.10	-7.54	-28.38	-258.67	48.14
3264	4	-0.12	0.59	-7.22	-1.18	-1.23	6.40	1.84	57.49	18.77	30.26	3279	2	0.33	0.21	-5.35	-1.83	-0.88	-0.79	4.98	-19.70	-239.66	85.92
3265	1	0.36	0.13	-1.33	0.15	-1.13	-2.75	-4.19	-199.44	-41.64	-24.43	3279	3	0.33	0.79	-3.38	0.03	-0.85	8.23	15.60	-10.30	-408.58	79.17
3265	2	0.90	0.10	-2.46	-0.27	-1.18	-1.90	-2.70	-342.16	30.68	5.77	3279	4	0.09	0.79	-5.09	-0.52	-0.86	10.25	-2.59	-9.97	-325.70	58.46
3265	3	1.21	0.38	-3.03	-0.70	-0.91	0.22	-1.35	-238.01	5.26	28.35	3280	1	0.09	0.21	5.70	1.51	-0.87	-1.57	-5.49	-11.52	-264.89	-31.89
3265	4	0.77	0.47	-2.29	-1.34	-1.06	0.23	-3.99	-197.66	-18.51	7.35	3280	2	0.35	0.21	5.39	1.66	-0.90	-1.23	8.02	-9.19	-251.01	-10.72
3266	1	0.30	0.09	-3.12	-0.29	-1.29	-1.28	-0.45	-280.53	48.86	30.34	3280	3	0.35	0.79	6.15	1.47	-1.03	1.81	5.65	-20.71	-287.78	-13.93
3266	2	0.85	0.08	-3.84	0.12	-1.36	-0.07	2.90	-313.98	-175.12	17.17	3280	4	0.09	0.79	5.86	1.68	-1.01	-0.92	-8.43	-19.63	-300.68	-32.20
3266	3	1.01	0.28	-3.86	0.51	-1.20	1.78	0.70	-317.30	-30.73	-86.60	3281	1	0.09	0.21	-3.93	-1.23	-1.01	-4.26	-1.84	-6.01	-248.24	-9.83
3266	4	0.54	0.33	-3.60	-0.14	-0.90	1.11	0.12	-220.11	17.11	60.25	3281	2	0.33	0.21	-4.79	-1.37	-0.52	-4.45	2.50	-6.14	-246.98	0.61
3267	1	0.25	0.07	-3.66	0.35	-1.33	1.80	1.19	-213.16	-60.79	-165.20	3281	3	0.33	0.79	-5.91	-1.75	-0.65	-5.48	6.60	-17.15	-280.00	4.74
3267	2	0.80	0.06	-1.47	0.28	-1.31	4.72	-0.13	-311.04	-38.36	-200.01	3281	4	0.09	0.79	-4.84	-1.35	-1.29	-3.98	-0.30	-15.91	-270.87	-7.80
3267	3	0.83	0.24	-1.09	0.46	-1.52	5.34	1.31	-370.06	-23.46	-161.13	3282	1	0.23	0.21	2.94	0.80	-0.61	-3.04	2.16	-4.42	-246.94	18.80
3267	4	0.35	0.25	-3.33	0.83	-1.36	3.28	0.91	-179.93	-125.17	-163.47	3282	2	0.86	0.21	1.41	0.32	-0.20	-2.14	0.48	-3.29	-244.76	28.39
3268	1	0.27	0.16	-2.54	-2.13	-0.69	-0.10	-2.23	-147.67	7.23	-8.54	3282	3	0.86	0.79	1.90	0.57	-0.31	-2.46	0.47	-10.35	-244.39	25.30
3268	2	0.66	0.13	-2.96	-0.84	-1.29	-0.57	-0.99	-154.85	48.26	-23.30	3282	4	0.23	0.79	3.70	1.09	-0.78	-3.68	1.04	-14.09	-260.79	17.13
3268	3	0.89	0.48	-3.20	-0.08	-0.12	8.64	-2.09	6.01	23.79	-3.09	3283	1	0.30	0.17	0.67	0.10	-0.03	-0.94	1.30	-0.89	-241.08	25.55
3268	4	0.57	0.60	-3.26	-1.46	0.90	6.83	-2.57	18.41	33.75	-28.37	3283	2	1.10	0.05	-0.41	-0.14	0.14	-1.04	0.65	-1.85	-222.87	8.06
3269	1	0.24	0.10	-3.47	0.19	-1.50	-0.40	0.86	-182.78	-22.55	-8.29	3283	3	1.10	0.63	-0.07	0.15	0.17	-0.63	0.20	-5.05	-225.58	14.31
3269	2	0.65	0.08	-3.39	0.50	-1.90	1.14	0.85	-235.40	31.58	-56.32	3283	4	0.30	0.75	0.84	0.34	-0.01	-1.64	1.13	-7.80	-234.20	24.92
3269	3	0.78	0.31	-2.94	0.47	-0.75	14.59	-2.48	-132.76	-4.01	-15.75	3284	1	0.18	0.21	-25.38	-4.69	-0.82	4.08	3.67	-41.29	-220.54	-62.94
3269	4	0.44	0.38	-3.34	0.26	-0.26	10.39	-3.25	-37.15	0.16	-26.27	3284	2	0.67	0.21	-23.79	-3.77	-0.23	3.91	2.05	-62.45	-208.72	-53.74
3270	1	0.20	0.07	-2.84	0.67	-1.76	3.95	-0.69	-141.96	-26.39	-17.78	3284	3	0.67	0.79	-23.12	-3.71	0.31	3.44	0.62	-75.65	-240.57	-20.35
3270	2	0.62	0.06	-0.63	0.10	-1.66	6.56	-0.40	-388.69	-61.37	-145.00	3284	4	0.18	0.79	-24.38	-4.16	-0.67	3.75	3.01	-46.25	-235.86	-39.95
3270	3	0.63	0.24	-0.40	0.00	-0.90	17.38	0.31	-413.99	-24.97	-50.55	3285	1	0.21	0.21	-28.50	-4.40	-1.99	1.07	-1.35	33.35	-319.15	-21.88
3270	4	0.29	0.26	-2.37	0.25	-0.70	15.95	-2.86	-229.40	13.22	13.01	3285	2	0.78	0.21	-27.32	-4.28	-2.54	4.48	8.16	-55.84	-363.89	-86.41
3271	1	0.20	0.06	1.21	0.26	-1.65	3.77	-2.03	-500.38	-150.27	-276.90	3285	3	0.78	0.79	-26.89	-2.19	-3.24	3.55	8.61	-15.63	-350.61	-41.37
3271	2	0.75	0.07	2.82	-0.03	-1.75	0.44	-3.48	-493.98	-164.04	-224.82	3285	4	0.21	0.79	-28.73	-2.20	-1.72	3.08	-5.79	14.08	-264.86	-7.23
3271	3	0.65	0.25	2.56	-0.74	-1.80	1.21	-1.97	-542.32	-171.59	-234.54	3286	1	0.21	0.34	1.59	8.76	0.60	-0.57	19.25	-160.48	12.26	45.11
3271	4	0.17	0.24	1.11	-0.11	-1.79	4.95	-3.42	-481.46	-105.05	-198.52	3286	2	0.79	0.34	1.22	8.60	0.46	-0.87	15.83	-158.42	20.18	42.33
3272	1	0.15	0.08	2.59	0.14	-1.62	-1.35	-7.29	-496.79	-157.64	-176.97	3286	3	0.79	1.28	3.50	23.52	0.26	0.10	15.31	-124.31	13.88	25.44
3272	2	0.70	0.09	1.47	-0.27	-1.63	-2.69	-7.29	-449.49	-131.94	-99.57	3286	4	0.21	1.28	4.82	23.90	0.35	-6.35	15.08	-152.84	5.83	15.82
3272	3	0.46	0.33	1.77	-1.75	-1.57	-2.14	-7.48	-477.92	-178.48	-157.41	3287	1	0.21	0.29	-2.47	-13.04	0.40	-0.09	13.46	-160.26	12.36	30.87
3272	4	-0.01	0.28	2.52	-0.95	-1.66	-0.78	-4.41	-533.43	-196.63	-222.55	3287	2	0.79	0.29	-2.73	-13.04	0.31	-0.43	13.38	-166.25	17.20	30.87
3273	1	0.10	0.10	0.52	-0.68	-1.63	-3.05	-7.55	-410.14	-107.75	-51.50	3287	3	0.79	1.09	-0.54	-1.70	0.31	-0.51	15.04	-161.49	17.60	38.91
3273	2	0.64	0.13	-0.61	-1.56	-1.69	-2.26	-7.95	-374.21	-65.18	-9.17	3287	4	0.21	1.09	-0.49	-1.85	0.43	1.14	12.65	-154.07	11.75	36.88
3273	3	0.23	0.47	-0.29	-3.50	-1.77	-1.84	-7.16	-383.37	-132.88	-75.24	3288	1	0.21	0.32	-4.69	-24.32	0.10	0.52	5.06	-163.29	15.16	14.65
3273	4	-0.21	0.38	0.64	-2.62	-1.76	-2.54	-7.63	-434.26	-165.42	-116.17	3288	2	0.79	0.32	-4.78	-24.30	0.09	-0.18	5.00	-169.34	16.28	14.72
3274	1	0.16	0.06	0.95	0.18	-1.86	6.18	-1.44	-518.64	-41.52	-141.40	3288	3	0.79	1.19	-3.86	-19.11	0.17	-0.32	6.60	-167.35	16.68	24.02
3274	2	0.58	0.07	2.17	-0.75	-1.98	2.21	-0.45	-634.83	-150.90	-211.16	3288	4	0.21	1.19	-3.63	-19.24	0.21	-0.45	7.08	-161.61	13.76	23.82
3274	3	0.49	0.26	1.77	-0.51	-0.80	11.71	1.98	-759.82	-77.55	-164.50	3289	1	0.21	0.28	-4.54	-23.54	-0.04	0.02	-3.19	-164.84	15.31	0.77
3274	4	0.14	0.24	0.94	0.13	-0.77	15.80	-1.22	-607.30	-7.89	-47.14	3289	2	0.79	0.28	-4.60	-23.49	-0.04	0.07	-3.04	-170.48	15.91	0.70
3275	1	0.12	0.08	1.74	-0.69	-2.27	-1.04	-2.89	-647.62	-123.06	-174.89	3289	3	0.79	1.06	-4.97	-25.38	0.01	-0.63	-1.71	-170.06	16.13	8.53
3275	2	0.53	0.10	1.04	-2.03	-2.63	-5.12	-4.51	-582.23	-167.53	-166.80	3289	4	0.21	1.06	-4.94	-25.46	0.01	0.27	-1.76	-164.09	15.30	8.45
3275	3	0.32	0.38	0.37	-1.41	-1.49	5.60	0.05	-747.60	-146.57	-271.96	3290	1	0.30	0.21	1.05	0.45	0.02	-2.19	1.01	-8.91	-232.62	20.39

3290	2	1.10	0.21	0.10	0.40	0.15	0.00	-0.13	-1.66	-207.87	9.44	3304	4	0.23	0.79	4.17	0.16	1.43	-2.53	2.16	-21.43	-278.15	9.89
3290	3	1.10	0.79	0.13	0.54	0.29	-0.71	-0.33	-1.60	-195.84	5.44	3305	1	0.09	0.21	-6.12	1.22	0.44	0.40	1.58	-22.38	-309.14	-8.49
3290	4	0.30	0.79	1.32	0.53	0.18	-1.56	0.57	-10.77	-228.79	14.11	3305	2	0.33	0.21	-6.43	1.56	0.32	2.29	-2.62	-17.75	-329.66	-5.31
3291	1	0.23	0.21	4.24	0.77	-0.79	-3.95	0.21	-20.78	-270.97	15.24	3305	3	0.33	0.79	-5.50	0.52	1.31	1.14	-14.47	-17.23	-338.52	-25.77
3291	2	0.86	0.21	2.28	0.58	-0.32	-1.86	-0.09	-15.78	-245.99	22.58	3305	4	0.09	0.79	-5.21	0.34	1.93	1.95	1.04	-15.90	-304.84	-17.54
3291	3	0.86	0.79	2.56	0.38	-0.05	-2.26	-0.23	-19.03	-247.86	15.20	3306	1	0.09	0.21	3.00	-4.52	0.43	13.10	0.20	-0.15	-357.38	5.59
3291	4	0.23	0.79	4.78	0.05	-0.30	-2.24	-0.02	-24.40	-279.89	11.32	3306	2	0.35	0.21	5.60	-3.88	0.48	11.32	-6.17	-8.22	-346.26	7.51
3292	1	0.09	0.21	-5.56	-0.80	-1.33	-2.51	1.12	-21.45	-287.52	-6.10	3306	3	0.35	0.79	4.35	-2.08	1.96	10.90	-6.87	-1.88	-341.82	31.52
3292	2	0.33	0.21	-6.48	-0.88	-0.77	-4.12	7.79	-21.65	-302.64	4.50	3306	4	0.09	0.79	2.95	-2.45	2.08	10.30	26.28	12.19	-306.56	25.39
3292	3	0.33	0.79	-6.61	0.50	-0.38	0.46	5.88	-25.46	-329.36	-1.20	3307	1	0.09	0.21	-0.62	6.22	0.56	16.12	6.85	20.26	-323.11	-21.71
3292	4	0.09	0.79	-6.09	0.44	-0.64	-2.58	2.95	-28.38	-303.73	-6.51	3307	2	0.33	0.21	2.59	7.20	0.57	20.12	-3.76	37.94	-324.57	-53.62
3293	1	0.09	0.21	5.11	-0.18	-0.94	4.84	-14.03	-17.81	-337.79	-31.08	3307	3	0.33	0.79	0.59	3.08	1.92	13.41	-32.41	34.80	-165.65	-184.66
3293	2	0.35	0.21	6.26	0.22	-1.03	6.37	2.54	-19.25	-313.77	-15.71	3307	4	0.09	0.79	-0.96	3.03	2.06	10.99	3.35	14.84	-233.95	-22.83
3293	3	0.35	0.79	6.03	-2.31	-0.41	9.30	-1.28	-19.54	-338.87	-9.36	3308	1	0.09	0.21	-2.96	-5.36	1.21	-1.54	1.79	168.07	-270.70	122.85
3293	4	0.09	0.79	3.53	-2.79	-0.35	12.65	-5.38	-11.25	-347.88	-3.90	3308	2	0.32	0.21	-3.67	-5.92	0.63	-6.20	-6.93	117.42	-310.75	92.71
3294	1	0.09	0.21	-3.74	1.05	-0.44	10.64	-0.45	-4.66	-354.45	31.53	3308	3	0.32	0.79	-1.38	-2.74	1.03	-3.41	1.69	70.08	-132.22	176.46
3294	2	0.33	0.21	-1.33	1.57	-0.36	11.05	2.69	15.91	-355.60	19.99	3308	4	0.09	0.79	-1.32	-2.47	1.24	-0.56	18.31	74.06	-93.13	348.00
3294	3	0.33	0.79	1.26	4.03	-0.12	11.93	10.28	20.56	-337.23	23.75	3309	1	0.13	0.21	-0.25	-4.00	1.40	-5.21	2.11	-206.42	-196.12	115.41
3294	4	0.09	0.79	-2.03	3.72	-0.12	10.15	5.46	-4.74	-354.47	-0.53	3309	2	0.47	0.21	-1.80	-4.83	1.17	-7.71	-1.38	-64.60	-232.72	139.51
3295	1	0.09	0.21	-0.35	-2.06	0.52	2.10	-3.60	25.94	-368.16	14.82	3309	3	0.47	0.79	-0.47	-2.01	0.89	-2.41	5.95	-150.54	-106.84	239.91
3295	2	0.32	0.21	0.36	-1.96	0.20	2.38	-2.07	-16.57	-371.18	-49.93	3309	4	0.13	0.79	-0.10	-1.70	1.19	-1.82	6.39	-144.97	-194.77	264.88
3295	3	0.32	0.79	-2.22	-3.79	0.45	0.95	-10.31	16.40	-350.84	-0.77	3310	1	0.18	0.21	-22.58	-4.35	-2.73	11.60	9.44	-59.00	-262.18	60.61
3295	4	0.09	0.79	-1.84	-3.94	1.07	1.16	-5.86	66.71	-373.81	2.74	3310	2	0.67	0.21	-16.46	-5.62	-0.47	9.57	1.53	-93.71	-329.18	79.62
3296	1	0.13	0.21	-0.20	-2.79	1.29	1.04	-1.77	20.75	-389.35	18.87	3310	3	0.67	0.79	-13.99	-6.18	-3.90	6.11	4.68	-59.66	-354.91	122.62
3296	2	0.47	0.21	-0.36	-2.47	0.95	0.78	-4.06	62.82	-403.24	-16.67	3310	4	0.18	0.79	-21.15	-4.77	-5.95	19.25	6.38	-18.71	-260.43	92.98
3296	3	0.47	0.79	-1.61	-3.93	1.36	-3.97	-4.33	104.40	-406.02	30.03	3311	1	0.21	0.21	-30.41	-0.45	-3.83	-3.77	-14.95	1.89	-206.97	71.98
3296	4	0.13	0.79	-0.22	-3.81	1.58	-1.16	-1.20	-58.05	-381.18	-66.55	3311	2	0.78	0.21	-26.86	-1.48	-4.57	11.52	-3.44	-39.93	-316.05	62.72
3297	1	0.18	0.21	-23.84	-4.11	-0.79	3.99	3.25	-54.94	-244.02	-13.33	3311	3	0.78	0.79	-44.40	-5.87	-10.92	19.94	-12.61	7.02	-310.14	98.79
3297	2	0.67	0.21	-21.68	-3.91	0.57	4.15	3.23	-86.63	-260.86	6.73	3311	4	0.21	0.79	-43.34	0.00	-0.75	-5.31	-8.87	21.54	-230.38	109.44
3297	3	0.67	0.79	-18.47	-4.49	0.31	5.90	0.94	-95.84	-300.03	46.22	3312	1	0.21	0.34	1.11	8.13	-0.03	-0.17	15.75	-164.63	27.60	41.48
3297	4	0.18	0.79	-23.40	-4.37	-2.02	5.11	0.66	-62.69	-249.20	31.05	3312	2	0.79	0.34	1.01	8.36	-0.25	-2.76	15.50	-174.13	24.25	40.95
3298	1	0.21	0.21	-27.95	-1.54	-3.03	1.77	-7.00	0.98	-231.91	9.16	3312	3	0.79	1.28	3.67	23.90	-0.48	-1.99	26.89	-131.60	17.72	65.81
3298	2	0.78	0.21	-25.15	-1.17	-2.89	5.31	7.57	-17.10	-341.06	-5.30	3312	4	0.21	1.28	4.25	24.51	0.19	1.16	21.65	-117.16	15.63	60.32
3298	3	0.78	0.79	-24.91	-0.73	-4.41	-1.30	7.84	-35.23	-329.75	36.15	3313	1	0.21	0.29	-2.91	-13.00	0.00	-0.60	14.06	-180.22	20.75	26.55
3298	4	0.21	0.79	-29.20	0.05	-2.61	7.61	-7.66	7.58	-212.61	38.98	3313	2	0.79	0.29	-2.96	-13.18	-0.08	-0.74	13.74	-185.47	18.44	24.97
3299	1	0.21	0.34	0.92	8.41	0.19	0.35	15.62	-157.75	24.14	41.41	3313	3	0.79	1.09	-0.72	-1.69	0.00	1.26	12.05	-180.86	19.76	32.45
3299	2	0.79	0.34	0.86	7.96	0.00	0.95	15.79	-160.04	26.30	41.70	3313	4	0.21	1.09	-0.67	-1.55	-0.13	1.24	14.01	-173.88	23.95	33.74
3299	3	0.79	1.28	3.73	24.23	-0.12	0.65	13.27	-109.47	14.47	45.12	3314	1	0.21	0.32	-4.98	-24.16	0.00	0.35	5.01	-183.63	16.93	12.93
3299	4	0.21	1.28	3.75	23.76	0.14	-1.28	17.19	-115.07	15.80	33.43	3314	2	0.79	0.32	-5.00	-24.15	-0.09	-0.50	5.00	-188.80	15.39	12.04
3300	1	0.21	0.29	-2.80	-13.02	0.22	0.89	12.90	-170.56	20.04	29.83	3314	3	0.79	1.19	-4.08	-19.04	0.02	-0.07	6.81	-187.24	16.93	19.38
3300	2	0.79	0.29	-2.86	-12.91	0.06	0.10	13.37	-176.40	21.37	28.01	3314	4	0.21	1.19	-4.08	-19.11	0.07	0.35	6.29	-182.40	18.98	20.95
3300	3	0.79	1.09	-0.79	-1.53	0.12	-0.82	15.77	-169.98	24.60	36.27	3315	1	0.21	0.28	-4.75	-23.39	-0.07	0.00	-3.12	-184.13	15.59	0.18
3300	4	0.21	1.09	-0.86	-1.67	0.25	-1.26	15.01	-164.63	21.70	37.93	3315	2	0.79	0.28	-4.80	-23.37	-0.10	-0.07	-3.03	-189.29	14.38	-0.04
3301	1	0.21	0.32	-4.95	-24.25	0.08	0.34	5.15	-173.76	17.08	14.45	3315	3	0.79	1.06	-5.17	-25.28	0.00	-0.14	-1.83	-189.22	14.78	6.83
3301	2	0.79	0.32	-4.92	-24.18	0.06	-0.38	5.17	-179.61	17.38	13.65	3315	4	0.21	1.06	-5.15	-25.30	-0.02	0.23	-1.73	-183.96	16.16	7.30
3301	3	0.79	1.19	-3.97	-19.11	0.06	-0.68	6.40	-178.21	19.37	22.20	3316	1	0.30	0.21	1.32	0.82	0.86	-1.43	1.05	-8.25	-222.03	-6.08
3301	4	0.21	1.19	-3.85	-19.05	0.12	-0.04	6.76	-172.33	18.29	23.70	3316	2	1.10	0.21	0.14	0.75	0.55	-0.54	-1.25	-1.41	-192.45	-4.08
3302	1	0.21	0.28	-4.65	-23.46	-0.04	-0.08	-3.16	-174.66	16.19	0.55	3316	3	1.10	0.79	0.09	0.84	0.65	-0.46	-1.66	0.79	-200.69	-7.88
3302	2	0.79	0.28	-4.72	-23.42	-0.05	0.00	-3.19	-180.18	16.07	0.35	3316	4	0.30	0.79	1.10	1.00	0.94	-2.20	1.42	-10.80	-219.11	-10.51
3302	3	0.79	1.06	-5.12	-25.32	-0.02	-0.34	-1.82	-180.02	16.61	7.81	3317	1	0.23	0.21	4.19	1.27	1.86	-1.86	2.41	-14.63	-268.54	10.54
3302	4	0.21	1.06	-5.05	-25.35	-0.01	0.32	-1.82	-174.27	16.58	8.23	3317	2	0.86	0.21	2.45	0.88	1.16	-2.54	-1.35	-13.66	-240.57	-1.22
3303	1	0.30	0.21	1.40	0.56	0.36	-1.72	1.34	-10.61	-227.38	7.56	3317	3	0.86	0.79	2.03	1.31	1.11	-1.85	-1.77	-11.30	-230.16	-4.89
3303	2	1.10	0.21	0.18	0.61	0.33	-0.66	-0.82	-1.44	-190.42	2.57	3317	4	0.23	0.79	3.38	2.11	1.57	-3.76	1.30	-10.14	-252.10	14.48
3303	3	1.10	0.79	0.18	0.69	0.44	-0.54	-1.03	-2.83	-188.99	-1.35	3318	1	0.09	0.21	-5.11	-1.53	2.52	-4.32	0.65	-17.31	-291.04	-20.42
3303	4	0.30	0.79	1.28	0.66	0.65	-1.72	0.79	-9.45	-225.38	-1.03	3318	2	0.33	0.21	-5.68	-1.92	1.44	-2.68	-17.95	-12.49	-292.39	-31.82
3304	1	0.23	0.21	4.77	-0.36	0.44	-2.44	0.28	-24.73	-285.01	10.05	3318	3	0.33	0.79	-4.93	-3.44	1.04	-6.41	-9.45	-6.65	-288.17	-25.93
3304	2	0.86	0.21	2.66	0.29	0.36	-1.65	-1.35	-19.00	-246.39	9.39	3318	4	0.09	0.79	-4.07	-3.09	1.73	-4.76	1.80	-10.77	-275.44	-18.24
3304	3	0.86	0.79	2.50	0.54	0.87	-0.92	-1.04	-18.02	-243.23	2.56	3319	1	0.09	0.21	5.32	3.00	2.44	1.05	29.64	-24.12	-408.84	32.29

3319	2	0.35	0.21	6.19	2.54	2.61	-0.05	-9.02	-17.99	-341.15	39.40	3333	4	0.09	0.79	-6.35	-3.21	0.53	-5.16	7.38	-8.81	-367.20	-34.85
3319	3	0.35	0.79	5.58	5.54	1.45	-4.23	-11.33	-15.79	-326.45	32.35	3334	1	0.09	0.21	5.73	3.46	1.46	5.09	0.56	-61.55	-459.13	80.16
3319	4	0.09	0.79	6.11	5.51	1.41	-6.65	9.93	-11.70	-349.96	38.87	3334	2	0.32	0.21	7.39	3.72	0.83	4.49	-9.83	-36.22	-434.84	95.46
3320	1	0.09	0.21	-5.34	-3.29	2.37	2.14	7.95	-20.68	-523.71	-10.87	3334	3	0.32	0.79	7.18	2.55	0.51	4.96	-7.63	-25.65	-405.53	35.49
3320	2	0.33	0.21	-4.07	-3.42	2.25	-1.50	-31.83	-31.93	-584.73	-200.48	3334	4	0.09	0.79	5.77	2.12	1.02	5.34	-1.38	-44.24	-420.67	45.17
3320	3	0.33	0.79	-7.28	-6.17	1.29	-6.37	-8.77	-6.97	-464.12	-92.11	3335	1	0.13	0.21	1.37	2.68	1.75	6.61	-1.00	-139.59	-476.89	131.34
3320	4	0.09	0.79	-6.81	-6.26	1.36	-3.13	12.14	2.70	-432.73	-55.71	3335	2	0.47	0.21	4.30	3.08	1.50	8.68	-4.13	-65.63	-461.70	132.67
3321	1	0.09	0.21	2.73	2.22	1.77	3.57	13.20	-95.09	-566.93	272.02	3335	3	0.47	0.79	4.24	2.09	1.21	8.01	-4.44	-70.77	-424.37	53.98
3321	2	0.32	0.21	3.51	2.63	1.05	8.75	-2.85	-75.08	-593.23	140.66	3335	4	0.13	0.79	1.37	1.56	1.64	7.67	-2.24	-103.38	-429.86	70.21
3321	3	0.32	0.79	6.91	4.57	1.07	8.40	-12.23	-17.69	-472.53	114.16	3336	1	0.18	0.21	-22.03	-5.76	-8.54	6.57	-17.78	-79.37	-368.32	102.29
3321	4	0.09	0.79	5.36	4.00	1.83	6.20	4.36	-45.17	-494.58	151.73	3336	2	0.67	0.21	-24.73	-3.74	-10.79	0.55	0.45	-16.01	-289.09	77.53
3322	1	0.13	0.21	0.74	1.28	1.75	4.37	6.13	-58.09	-548.68	329.49	3336	3	0.67	0.79	-24.71	-3.73	-7.92	3.03	-0.34	-59.20	-246.13	9.72
3322	2	0.47	0.21	1.53	1.57	1.21	5.71	3.93	-130.25	-574.94	160.69	3336	4	0.18	0.79	-23.86	-6.29	-4.89	2.71	-6.92	-138.16	-312.65	5.67
3322	3	0.47	0.79	3.62	3.72	1.64	7.97	-2.45	-79.07	-523.08	180.30	3337	1	0.21	0.21	-27.91	-7.78	-0.22	9.36	-8.30	-174.76	-299.45	134.52
3322	4	0.13	0.79	1.19	3.07	1.95	6.26	1.62	-125.07	-530.26	215.46	3337	2	0.78	0.21	-24.45	-6.46	-4.58	11.46	-7.09	-142.46	-259.81	125.25
3323	1	0.18	0.21	-32.42	-8.50	-14.21	0.56	5.92	-2.60	-327.10	141.46	3337	3	0.78	0.79	-25.67	-7.07	-2.88	8.43	-3.03	-262.68	-256.91	0.47
3323	2	0.67	0.21	-20.49	-5.30	-8.93	13.10	6.66	-19.06	-342.52	146.71	3337	4	0.21	0.79	-31.96	-9.73	-1.09	21.50	-6.97	-398.49	-393.68	30.30
3323	3	0.67	0.79	-21.51	-3.73	-11.90	9.71	2.71	-2.14	-314.80	124.23	3338	1	0.21	0.34	2.79	8.23	-1.34	-1.06	18.97	-195.27	2.62	37.02
3323	4	0.18	0.79	-22.08	-5.15	-8.66	-3.95	-2.71	-33.65	-340.73	135.86	3338	2	0.79	0.34	3.49	6.60	0.03	-3.48	19.45	-206.80	-7.98	39.27
3324	1	0.21	0.21	-15.51	-1.22	-0.25	9.97	-7.88	26.48	-240.87	94.68	3338	3	0.79	1.28	12.59	25.46	-0.26	12.60	34.17	-273.96	14.53	65.49
3324	2	0.78	0.21	-15.59	-3.02	-4.62	-11.71	-20.55	21.30	-281.57	107.59	3338	4	0.21	1.28	5.46	22.74	-1.40	17.10	20.59	-228.00	4.89	83.68
3324	3	0.78	0.79	-21.89	-4.58	-4.34	-4.02	-21.22	-21.99	-307.13	146.17	3339	1	0.21	0.29	-2.63	-13.27	-0.22	-0.25	14.51	-197.24	5.90	24.16
3324	4	0.21	0.79	-23.76	-5.27	-0.50	1.25	-8.94	-11.16	-272.41	93.14	3339	2	0.79	0.29	-2.56	-13.47	0.10	0.80	12.57	-202.67	2.23	26.72
3325	1	0.21	0.34	0.51	7.92	-0.54	-2.51	15.43	-181.90	17.28	39.60	3339	3	0.79	1.09	-0.29	-1.84	0.28	-1.26	13.83	-201.16	-1.95	34.59
3325	2	0.79	0.34	1.10	8.25	-0.97	1.51	15.87	-195.54	8.88	37.10	3339	4	0.21	1.09	0.31	-2.40	-0.05	2.81	11.26	-202.37	3.03	33.54
3325	3	0.79	1.28	2.86	21.85	-0.51	2.52	3.88	-179.83	8.25	84.58	3340	1	0.21	0.32	-4.97	-24.16	-0.06	0.38	4.63	-200.90	8.76	11.75
3325	4	0.21	1.28	2.71	22.69	-0.91	1.39	5.92	-160.42	11.29	74.10	3340	2	0.79	0.32	-4.96	-24.15	0.01	-0.11	4.96	-206.31	6.09	12.15
3326	1	0.21	0.29	-2.89	-13.03	-0.17	-0.50	12.50	-189.51	15.31	23.96	3340	3	0.79	1.19	-3.81	-19.08	-0.04	0.03	7.57	-205.53	5.19	21.35
3326	2	0.79	0.29	-2.71	-12.96	-0.34	-2.12	12.73	-194.72	9.59	23.42	3340	4	0.21	1.19	-4.14	-19.21	0.04	0.00	6.86	-198.47	7.52	19.59
3326	3	0.79	1.09	-0.65	-2.36	-0.41	2.98	17.11	-191.92	9.41	32.54	3341	1	0.21	0.28	-4.85	-23.32	-0.10	-0.65	-3.10	-201.50	9.03	-0.38
3326	4	0.21	1.09	-1.04	-1.83	-0.03	-0.05	17.05	-182.52	16.40	31.43	3341	2	0.79	0.28	-4.86	-23.29	-0.04	0.10	-3.12	-206.53	6.38	-0.52
3327	1	0.21	0.32	-4.98	-24.18	-0.10	-0.28	5.37	-192.35	13.66	11.66	3341	3	0.79	1.06	-5.26	-25.20	-0.05	-0.63	-1.81	-206.53	6.25	6.34
3327	2	0.79	0.32	-4.99	-24.18	-0.07	-0.97	5.14	-197.25	11.15	11.54	3341	4	0.21	1.06	-5.18	-25.21	-0.01	0.55	-1.59	-201.65	9.06	6.43
3327	3	0.79	1.19	-3.89	-19.16	0.04	0.55	6.29	-195.09	10.24	18.76	3342	1	0.30	0.25	0.79	0.48	0.89	-2.10	-1.01	9.37	-249.21	-36.08
3327	4	0.21	1.19	-3.90	-19.05	-0.03	1.75	6.31	-191.19	14.29	18.84	3342	2	1.10	0.37	0.02	0.56	0.60	0.19	-1.46	5.53	-238.80	-6.12
3328	1	0.21	0.28	-4.82	-23.35	-0.11	-0.10	-3.13	-193.00	13.03	-0.19	3342	3	1.10	0.95	-0.49	0.14	0.91	1.45	-2.64	7.70	-234.12	9.34
3328	2	0.79	0.28	-4.83	-23.34	-0.12	-0.05	-3.29	-197.87	10.81	-0.31	3342	4	0.30	0.83	0.92	0.36	0.87	-3.41	2.44	8.51	-245.25	-18.79
3328	3	0.79	1.06	-5.24	-25.24	0.00	0.15	-1.69	-197.95	10.96	6.36	3343	1	0.23	0.21	2.90	1.01	0.48	-1.39	0.24	-31.54	-157.53	50.49
3328	4	0.21	1.06	-5.22	-25.27	0.01	0.58	-1.91	-192.72	13.38	6.49	3343	2	0.86	0.21	1.82	0.75	0.72	-1.31	-0.11	-31.37	-127.55	-27.60
3329	1	0.30	0.21	1.02	1.10	0.89	-1.88	1.09	-10.56	-210.61	-14.13	3343	3	0.86	0.79	1.90	0.67	0.68	-0.89	-1.20	-2.91	-106.19	-107.41
3329	2	1.10	0.21	0.12	0.82	0.71	-0.39	-1.90	-2.54	-211.12	-11.40	3343	4	0.23	0.79	3.25	0.73	0.54	-1.64	1.44	-0.06	-116.41	126.88
3329	3	1.10	0.79	0.20	0.68	0.60	-1.48	-2.12	-6.22	-231.18	-12.83	3344	1	0.09	0.21	-3.23	-1.11	0.22	-2.31	3.18	11.88	-301.96	-68.41
3329	4	0.30	0.79	0.93	0.95	0.84	-0.38	1.21	-1.98	-201.35	-28.98	3344	2	0.33	0.21	-3.61	-1.16	0.15	-1.34	0.49	19.43	-296.50	-49.79
3330	1	0.23	0.21	3.00	2.15	1.04	-3.60	0.65	-10.35	-245.64	13.89	3344	3	0.33	0.79	-4.33	-0.78	0.00	-1.83	-1.08	16.43	-327.76	-34.15
3330	2	0.86	0.21	1.86	1.36	0.86	-1.58	-1.58	-11.95	-223.82	-2.28	3344	4	0.09	0.79	-3.75	-0.71	0.11	-2.76	-0.89	23.81	-276.05	-50.79
3330	3	0.86	0.79	1.79	1.11	0.73	-2.76	-2.70	-21.16	-204.57	4.93	3345	1	0.09	0.21	5.41	1.57	0.10	-5.42	-2.14	3.11	-353.25	27.36
3330	4	0.23	0.79	2.80	1.53	0.63	-2.28	0.01	-17.23	-215.75	12.32	3345	2	0.35	0.21	4.35	1.50	0.11	-6.32	-4.95	8.69	-331.34	41.82
3331	1	0.09	0.21	-3.74	-2.83	0.96	-1.89	3.70	-8.71	-256.36	-24.06	3345	3	0.35	0.79	4.82	0.51	-0.39	-4.01	3.38	0.16	-380.16	24.90
3331	2	0.33	0.21	-4.56	-3.11	0.55	-5.25	-4.19	-3.89	-268.97	-33.42	3345	4	0.09	0.79	5.30	0.79	-0.38	-3.28	-2.51	1.63	-377.84	14.07
3331	3	0.33	0.79	-3.92	-2.22	0.32	-3.25	-1.06	-4.09	-272.40	-49.46	3346	1	0.09	0.21	-6.23	-1.97	0.06	-3.41	3.30	-6.56	-386.56	-16.07
3331	4	0.09	0.79	-3.47	-2.08	0.49	-2.18	3.17	-3.22	-229.91	-55.84	3346	2	0.33	0.21	-6.76	-1.82	0.06	-3.31	1.30	-13.84	-395.28	-19.16
3332	1	0.09	0.21	6.14	4.55	0.91	-5.17	5.40	1.15	-347.69	46.09	3346	3	0.33	0.79	-5.41	-0.81	-0.31	0.15	3.89	-8.52	-409.26	1.75
3332	2	0.35	0.21	5.00	4.50	0.82	-1.89	-9.53	0.98	-314.04	33.52	3346	4	0.09	0.79	-5.65	-0.80	-0.31	-0.13	-1.05	-6.34	-402.83	-6.39
3332	3	0.35	0.79	4.47	2.89	0.50	-5.06	-6.73	2.82	-323.40	41.16	3347	1	0.09	0.21	5.25	1.41	0.70	5.47	-2.30	-27.01	-406.75	17.24
3332	4	0.09	0.79	5.75	3.16	0.54	-5.23	0.77	-0.62	-342.56	36.56	3347	2	0.32	0.21	6.49	1.61	0.27	5.21	-5.07	-26.25	-401.91	8.92
3333	1	0.09	0.21	-6.51	-4.99	0.90	-2.33	10.57	-9.00	-381.55	-66.89	3347	3	0.32	0.79	4.92	0.50	0.11	5.29	-3.59	-12.59	-411.63	-8.52
3333	2	0.33	0.21	-7.55	-4.82	0.87	-3.18	-7.20	-20.86	-413.51	-49.09	3347	4	0.09	0.79	3.70	0.14	0.45	5.25	-3.12	-14.57	-410.28	-10.97
3333	3	0.33	0.79	-7.30	-3.44	0.49	-4.82	-0.04	-20.52	-391.81	-32.65	3348	1	0.13	0.21	0.96	0.63	1.53	8.11	-2.68	-72.11	-412.59	32.96

3348	2	0.47	0.21	3.61	1.06	1.02	7.46	-4.52	-51.22	-412.95	-11.79	3362	4	0.00	0.48	13.00	0.47	1.42	-16.74	0.42	-493.60	-55.54	-105.23
3348	3	0.47	0.79	2.39	0.00	0.91	6.57	-4.54	-16.80	-405.82	-12.32	3363	1	0.06	0.16	2.81	-1.36	-1.05	-12.80	-0.07	-321.96	-246.85	-157.29
3348	4	0.13	0.79	0.19	-0.49	1.51	6.54	-2.71	-45.07	-389.16	-10.95	3363	2	0.39	0.18	-0.71	-2.52	-1.16	-11.50	-1.73	-276.23	-305.59	-158.54
3349	1	0.18	0.21	-25.65	-5.62	-3.72	5.85	-6.14	-148.12	-319.85	-59.40	3363	3	0.14	0.67	0.30	-1.33	-1.14	-8.59	-2.50	-507.74	-228.91	-269.09
3349	2	0.67	0.21	-25.88	-3.14	-5.31	0.72	1.82	-96.90	-309.39	-26.86	3363	4	-0.12	0.59	4.02	-0.41	-0.05	-10.92	-1.85	-531.10	-143.96	-198.66
3349	3	0.67	0.79	-26.14	-2.23	-3.03	1.30	1.73	-84.89	-320.31	-78.77	3364	1	0.16	0.12	-24.05	1.74	0.45	-8.44	-0.62	-324.23	-33.51	90.27
3349	4	0.18	0.79	-25.71	-3.58	-1.91	2.54	-1.80	-83.96	-386.49	-106.22	3364	2	0.61	0.12	-27.87	1.93	0.19	-5.73	-0.61	-345.44	26.61	76.83
3350	1	0.21	0.21	-31.21	-8.38	-0.72	8.92	4.33	-279.99	-430.57	-174.73	3364	3	0.52	0.45	-28.14	1.94	0.53	-6.48	-4.10	-320.53	26.30	88.13
3350	2	0.78	0.21	-25.50	-6.24	-1.69	7.23	2.55	-161.54	-283.29	-85.18	3364	4	0.14	0.44	-24.18	1.44	1.34	-10.25	-2.29	-322.95	-32.57	96.68
3350	3	0.78	0.79	-26.66	-5.01	-0.86	3.01	2.85	-44.95	-300.56	-93.98	3365	1	0.12	0.12	-29.07	1.30	-0.13	-3.61	-0.10	-358.92	51.34	56.80
3350	4	0.21	0.79	-28.11	-5.14	-0.49	1.18	1.47	0.72	-313.47	-40.57	3365	2	0.57	0.13	-28.69	-0.75	-0.35	-2.47	-1.72	-370.26	40.24	33.02
3351	1	0.21	0.34	2.37	6.40	1.55	3.23	9.81	-206.57	-14.60	43.93	3365	3	0.36	0.50	-30.02	0.97	-2.36	-4.18	1.36	-327.78	73.35	46.75
3351	2	0.79	0.34	1.22	7.80	1.19	3.47	13.29	-207.00	-4.25	52.24	3365	4	-0.01	0.47	-29.55	1.93	-0.59	-6.15	-2.44	-321.08	68.40	76.80
3351	3	0.79	1.28	1.59	22.73	1.28	8.62	12.57	-233.14	-3.67	28.29	3366	1	0.08	0.14	-27.60	-2.60	-0.50	-1.79	-0.49	-380.00	-5.10	19.16
3351	4	0.21	1.28	7.11	24.62	1.53	-35.78	26.08	-288.34	4.23	30.02	3366	2	0.52	0.16	-26.02	-5.67	-0.82	-4.03	3.34	-401.91	-107.06	17.24
3352	1	0.21	0.29	-2.39	-13.21	0.29	1.71	13.41	-207.45	2.48	29.20	3366	3	0.19	0.58	-27.76	-3.81	-4.19	-7.63	-3.73	-312.56	-29.61	27.61
3352	2	0.79	0.29	-2.57	-12.88	0.49	0.33	14.87	-214.78	3.31	30.78	3366	4	-0.18	0.53	-28.82	-0.55	-3.21	-6.95	-0.78	-312.33	54.28	36.69
3352	3	0.79	1.09	0.16	-1.78	0.32	-8.99	15.20	-223.34	0.48	37.01	3367	1	0.13	0.12	-24.18	0.14	3.44	-10.26	-5.23	-314.98	-38.23	97.92
3352	4	0.21	1.09	0.35	-1.41	0.20	1.50	20.35	-203.94	-1.10	40.40	3367	2	0.46	0.12	-28.18	1.18	2.93	-5.45	-7.10	-284.26	13.47	91.68
3353	1	0.21	0.32	-5.01	-24.16	0.10	0.71	5.23	-210.38	4.24	12.33	3367	3	0.39	0.45	-30.17	-0.07	-0.01	-37.14	-9.50	-257.96	4.70	19.82
3353	2	0.79	0.32	-5.07	-24.05	0.12	-0.24	5.14	-216.30	2.14	12.26	3367	4	0.12	0.44	-26.33	-0.48	2.11	-31.84	-3.74	-355.72	-19.17	38.31
3353	3	0.79	1.19	-4.05	-19.15	0.19	-0.16	5.91	-214.77	2.81	22.27	3368	1	0.10	0.13	-29.77	1.28	4.56	-0.53	-5.77	-245.79	34.54	119.24
3353	4	0.21	1.19	-3.80	-19.09	0.01	-0.90	6.21	-210.92	3.63	21.00	3368	2	0.43	0.14	-31.02	2.20	3.26	4.57	-5.75	-227.98	81.72	111.65
3354	1	0.21	0.28	-4.89	-23.25	-0.02	0.08	-3.18	-210.32	4.30	-0.48	3368	3	0.27	0.53	-32.77	0.38	-2.13	-42.09	-13.38	-67.46	41.47	57.23
3354	2	0.79	0.28	-4.90	-23.21	-0.04	0.11	-3.14	-215.17	1.07	-0.73	3368	4	0.00	0.48	-31.71	0.08	0.50	-41.09	-10.35	-176.55	10.55	39.39
3354	3	0.79	1.06	-5.27	-25.13	-0.04	-0.37	-1.77	-216.45	1.58	6.11	3369	1	0.06	0.16	-30.86	1.87	4.22	10.50	-1.24	-220.10	64.23	113.50
3354	4	0.21	1.06	-5.26	-25.17	-0.05	0.12	-1.74	-210.25	4.38	6.76	3369	2	0.39	0.18	-30.01	2.02	1.99	10.50	7.20	-197.21	22.74	82.65
3355	1	0.36	0.08	-1.98	0.03	-0.02	1.36	-0.76	-12.38	18.61	-13.42	3369	3	0.14	0.66	-31.94	1.35	-3.82	-36.00	-19.59	76.42	81.79	104.07
3355	2	1.35	0.08	-2.30	-0.32	0.49	0.04	1.65	-8.78	-24.23	8.98	3369	4	-0.11	0.59	-32.98	1.24	-1.28	-42.28	-14.73	14.31	68.26	83.66
3355	3	1.35	0.32	-1.64	0.33	0.04	1.62	0.51	-32.44	-23.42	-9.84	3370	1	0.36	0.12	-6.96	-26.25	2.41	1.49	4.69	-162.50	-387.53	-34.19
3355	4	0.36	0.32	-2.42	-0.08	-0.03	-2.10	-0.22	-28.56	18.61	12.53	3370	2	0.90	0.10	-5.94	-25.72	5.74	5.93	0.60	-208.62	-232.42	-86.72
3356	1	0.32	0.08	-1.29	0.06	0.05	-0.27	-0.21	-17.57	9.22	-9.78	3370	3	1.21	0.37	-3.32	-26.27	7.52	1.45	3.02	-144.22	-113.90	-70.19
3356	2	1.19	0.08	-2.19	-0.05	0.06	-0.43	-0.16	-14.82	-15.42	14.02	3370	4	0.76	0.46	-3.53	-25.61	4.41	-0.90	5.60	-76.81	-267.31	-46.00
3356	3	1.19	0.32	-1.82	-0.11	0.23	0.16	0.65	-26.00	-15.64	-14.79	3371	1	0.30	0.09	-4.03	-24.84	7.61	3.89	6.42	-278.85	-94.88	-114.67
3356	4	0.32	0.32	-1.56	0.01	-0.03	-2.12	0.37	-23.11	9.24	9.05	3371	2	0.85	0.07	-3.26	-21.93	9.11	9.70	2.39	-378.94	62.46	-162.28
3357	1	0.28	0.08	0.85	0.10	0.05	-0.87	0.04	-19.12	-6.67	-8.24	3371	3	1.01	0.27	-3.51	-20.03	11.24	6.17	5.83	-316.80	114.79	-151.36
3357	2	1.06	0.08	-0.42	-0.09	0.05	-1.48	-0.16	-20.53	1.64	8.49	3371	4	0.54	0.32	-2.09	-24.51	9.08	3.68	-0.04	-231.30	14.24	-86.24
3357	3	1.06	0.32	-0.36	-0.07	0.02	-2.40	-0.51	-20.17	1.64	-8.10	3372	1	0.25	0.07	-4.41	-17.52	8.92	6.76	6.40	-438.79	84.73	-199.74
3357	4	0.28	0.32	0.65	0.03	0.10	-1.11	0.44	-21.60	-6.60	8.68	3372	2	0.80	0.06	-5.12	-12.00	5.63	0.93	10.88	-528.08	-26.60	-220.98
3358	1	0.17	0.12	19.68	-1.33	0.54	-10.99	0.95	-310.09	-82.79	-92.03	3372	3	0.83	0.22	-6.63	-8.42	5.96	-0.91	11.18	-556.90	-30.66	-179.72
3358	2	0.62	0.12	13.06	-0.87	0.45	-12.04	-0.63	-273.11	-157.48	-81.67	3372	4	0.35	0.24	-4.97	-13.63	10.29	3.31	7.95	-416.36	64.17	-163.32
3358	3	0.53	0.45	14.26	-0.57	1.36	-12.70	-0.44	-309.67	-143.50	-111.76	3373	1	0.27	0.16	-6.19	-24.82	14.15	10.85	-4.37	-12.18	-154.90	6.89
3358	4	0.14	0.44	20.16	-0.85	1.60	-11.84	3.42	-323.71	-75.93	-102.56	3373	2	0.66	0.13	-7.22	-20.32	16.51	12.51	1.97	-71.27	-35.30	-70.45
3359	1	0.12	0.12	8.29	-1.00	0.26	-12.12	0.11	-234.95	-213.30	-67.01	3373	3	0.89	0.47	-12.57	-12.69	14.07	-45.47	18.17	191.78	66.14	-105.45
3359	2	0.58	0.13	2.65	-1.68	0.04	-11.04	-1.16	-174.51	-283.80	-46.32	3373	4	0.57	0.59	-9.07	-18.67	15.24	-34.08	22.57	186.05	25.44	-83.90
3359	3	0.37	0.50	4.78	-1.22	0.41	-11.07	-2.36	-231.69	-269.42	-104.60	3374	1	0.24	0.10	-6.59	-19.67	16.32	10.94	8.05	-111.86	57.48	-129.56
3359	4	-0.02	0.47	9.81	-0.70	0.97	-13.40	0.30	-283.23	-202.56	-115.33	3374	2	0.65	0.08	-8.83	-11.82	14.61	0.98	7.91	-213.36	49.88	-178.72
3360	1	0.08	0.14	-0.80	-2.44	-0.06	-10.33	-0.38	-132.65	-310.04	-27.89	3374	3	0.78	0.30	-12.16	-4.01	8.79	-49.58	13.89	-120.00	32.14	-71.59
3360	2	0.53	0.16	-4.95	-3.61	-0.16	-8.97	-2.08	-91.62	-313.87	-12.41	3374	4	0.44	0.37	-11.09	-10.03	12.32	-48.90	18.37	102.01	60.32	-103.65
3360	3	0.19	0.59	-2.16	-3.09	-0.37	-9.65	-0.97	-149.47	-339.38	-70.66	3375	1	0.20	0.07	-7.67	-9.25	10.92	-2.18	12.37	-368.38	50.61	-140.92
3360	4	-0.18	0.53	1.37	-2.05	-0.05	-11.56	-1.32	-198.28	-316.67	-94.49	3375	2	0.62	0.06	-8.52	-4.31	5.24	-4.75	10.79	-579.67	-54.21	-159.78
3361	1	0.13	0.12	20.61	-0.10	1.74	-12.55	5.70	-353.50	-57.35	-84.97	3375	3	0.64	0.23	-8.61	-0.53	1.76	-22.87	5.32	-699.38	-39.13	-52.73
3361	2	0.47	0.12	14.97	0.14	1.51	-14.53	1.80	-362.32	-110.80	-110.18	3375	4	0.29	0.25	-10.04	-3.83	6.49	-42.80	12.54	-331.37	16.73	-4.34
3361	3	0.39	0.45	17.00	0.69	2.33	-20.09	-0.57	-460.73	-51.15	-92.16	3376	1	0.20	0.06	-4.79	-11.16	1.16	3.54	11.14	-584.99	-111.69	-212.37
3361	4	0.12	0.44	23.03	0.47	1.38	-26.73	4.19	-411.28	-20.32	-36.40	3376	2	0.75	0.07	-2.55	-15.25	-2.45	-3.34	9.24	-575.15	-176.13	-177.87
3362	1	0.10	0.13	10.88	-0.14	0.17	-14.55	2.02	-373.31	-139.51	-120.28	3376	3	0.65	0.24	-3.50	-10.91	-3.79	-2.73	10.93	-665.00	-174.42	-202.90
3362	2	0.43	0.14	5.83	-0.80	-0.34	-14.26	-0.54	-340.79	-218.41	-151.56	3376	4	0.17	0.22	-6.06	-7.32	0.89	1.73	11.85	-661.28	-104.30	-197.86
3362	3	0.27	0.53	7.73	0.14	1.06	-12.05	-2.62	-501.79	-116.66	-176.96	3377	1	0.15	0.07	-0.25	-19.43	-2.84	-4.85	4.29	-520.31	-175.87	-133.71

3377	2	0.70	0.09	0.50	-23.45	-1.72	-3.40	4.14	-450.41	-152.44	-71.42
3377	3	0.46	0.32	1.62	-22.34	-3.40	-5.14	1.24	-515.02	-192.49	-138.08
3377	4	-0.01	0.27	-0.84	-16.94	-4.96	-4.99	7.77	-610.09	-205.13	-189.88
3378	1	0.10	0.10	0.17	-25.24	-0.47	-3.49	-0.72	-396.76	-129.03	-23.60
3378	2	0.64	0.12	-0.42	-27.01	0.86	-0.84	0.78	-344.39	-101.51	24.79
3378	3	0.29	0.46	1.47	-25.47	-0.23	-0.68	1.45	-377.22	-160.17	-64.91
3378	4	-0.21	0.37	1.18	-25.02	-2.32	-1.86	1.02	-447.93	-181.61	-101.44
3379	1	0.16	0.06	-7.24	-4.22	1.23	0.57	10.90	-753.16	-67.36	-134.54
3379	2	0.58	0.07	-5.23	-6.93	-4.47	0.24	13.98	-788.86	-142.26	-189.79
3379	3	0.49	0.25	-6.29	-2.60	-3.12	17.08	9.94	-996.47	-82.88	-198.04
3379	4	0.14	0.23	-7.44	-0.59	1.10	-8.15	4.45	-885.62	-11.05	-52.87
3380	1	0.12	0.08	-4.55	-10.05	-8.44	0.24	10.17	-760.50	-146.18	-157.05
3380	2	0.53	0.10	-1.56	-17.97	-10.96	-10.23	10.71	-642.17	-179.05	-155.30
3380	3	0.33	0.37	-5.12	-7.90	-8.22	37.44	16.81	-848.46	-160.53	-299.32
3380	4	-0.01	0.30	-6.74	-2.48	-5.00	30.62	11.60	-1004.02	-89.36	-206.20
3381	1	0.07	0.13	-1.30	-20.26	-12.59	-14.16	2.84	-571.44	-161.37	-91.65
3381	2	0.46	0.16	-0.46	-25.79	-11.57	-13.44	-4.58	-462.77	-161.31	-73.85
3381	3	0.16	0.59	-3.86	-17.81	-12.43	30.31	22.39	-602.88	-213.57	-280.42
3381	4	-0.16	0.47	-6.08	-11.26	-10.53	38.42	18.05	-787.59	-156.23	-260.51
3382	1	0.29	0.16	-27.31	0.31	-1.58	-0.87	3.30	-110.86	-303.38	-21.66
3382	2	0.74	0.14	-29.34	1.60	-1.34	-1.55	1.29	-142.92	-244.03	34.83
3382	3	1.00	0.53	-29.91	2.83	0.98	4.01	1.56	-203.60	-293.99	122.96
3382	4	0.63	0.58	-28.32	0.46	0.97	5.24	-1.16	-164.38	-330.86	66.08
3383	1	0.25	0.13	-30.69	2.29	-0.97	-1.43	0.31	-168.58	-194.28	92.39
3383	2	0.69	0.12	-32.14	3.36	-0.59	-0.23	1.08	-230.06	-219.65	210.66
3383	3	0.83	0.47	-32.47	3.71	-0.36	1.75	-1.06	-227.60	-185.20	190.96
3383	4	0.45	0.50	-31.82	3.65	0.86	0.44	2.85	-211.91	-236.67	160.93
3384	1	0.20	0.12	-31.92	3.28	-0.52	1.32	0.37	-174.73	-113.17	169.86
3384	2	0.65	0.12	-29.37	2.17	-0.93	4.65	-0.02	-203.77	-41.22	215.20
3384	3	0.68	0.44	-29.38	1.76	-1.67	6.27	-2.38	-225.68	-63.92	215.30
3384	4	0.29	0.45	-32.12	3.07	-1.14	2.06	-3.08	-233.25	-133.08	195.15
3385	1	0.22	0.18	-28.46	4.56	-5.83	-15.51	9.02	-283.29	-305.64	159.17
3385	2	0.54	0.16	-30.58	3.86	-7.23	-16.88	0.47	-321.64	-220.72	173.66
3385	3	0.72	0.59	-31.83	2.46	-0.73	41.78	-13.65	-545.27	-144.71	213.95
3385	4	0.46	0.66	-29.14	3.15	1.00	34.92	-17.36	-530.85	-228.17	277.43
3386	1	0.19	0.14	-32.09	4.18	-5.68	-10.67	-3.57	-332.92	-211.68	199.95
3386	2	0.52	0.13	-32.27	2.41	-6.36	-5.70	-5.46	-314.63	-122.69	177.94
3386	3	0.62	0.48	-34.20	0.49	-1.37	41.14	-10.80	-447.93	-62.74	127.13
3386	4	0.35	0.53	-33.30	1.31	0.72	42.06	-13.20	-493.66	-122.52	190.46
3387	1	0.16	0.12	-31.96	1.95	-4.07	0.00	-7.01	-279.76	-105.06	191.36
3387	2	0.50	0.12	-29.26	0.19	-4.29	5.64	-6.02	-233.33	-43.44	175.25
3387	3	0.51	0.44	-31.86	-0.58	-2.62	30.38	-4.62	-239.24	-12.76	69.16
3387	4	0.23	0.45	-34.05	0.15	-0.43	36.65	-9.82	-363.37	-46.78	113.51
3388	1	0.17	0.12	-25.78	1.04	-0.35	7.44	-0.55	-182.73	-38.59	180.85
3388	2	0.62	0.12	-19.81	-0.53	-0.04	9.30	0.65	-164.02	-74.42	152.15
3388	3	0.53	0.45	-20.86	-0.67	-1.69	9.58	0.13	-146.68	-25.63	138.48
3388	4	0.14	0.44	-26.12	0.58	-1.88	8.04	-3.39	-174.59	-47.76	185.57
3389	1	0.12	0.12	-15.20	-1.32	0.34	9.35	-0.38	-142.26	-123.97	106.65
3389	2	0.58	0.13	-9.71	-1.96	0.87	8.80	0.40	-99.96	-198.70	46.24
3389	3	0.37	0.50	-11.48	-2.31	-0.63	7.96	1.65	-78.66	-116.65	36.54
3389	4	-0.02	0.47	-16.52	-1.47	-1.33	9.98	-0.50	-115.39	-45.49	96.11
3390	1	0.08	0.14	-6.50	-1.98	1.27	7.60	-1.21	-70.15	-259.25	10.16
3390	2	0.53	0.16	-2.91	-1.81	1.56	6.30	-0.82	-35.57	-334.55	-16.98
3390	3	0.19	0.59	-4.85	-2.76	0.90	5.39	-0.28	-15.97	-255.63	-30.17
3390	4	-0.18	0.53	-8.19	-2.59	0.07	8.07	0.74	-48.27	-168.15	4.94
3391	1	0.13	0.12	-26.59	-0.21	-2.13	8.85	-6.19	-158.55	-35.31	163.10
3391	2	0.47	0.12	-21.63	-1.16	-2.06	11.33	-2.30	-110.65	0.34	127.11
3391	3	0.39	0.45	-24.28	-1.24	-3.33	17.17	-0.12	-5.36	12.40	54.95
3391	4	0.12	0.44	-29.48	-0.65	-1.71	24.27	-4.67	-131.42	-9.02	67.82
3392	1	0.10	0.13	-17.87	-1.47	-0.65	12.26	2.07	-62.47	-21.82	96.59
3392	2	0.43	0.14	-12.74	-2.12	-0.56	11.17	1.29	-31.99	-52.27	41.23
3392	3	0.27	0.53	-14.88	-1.57	-3.07	9.90	2.26	115.14	14.28	42.93
3392	4	0.00	0.48	-20.65	-1.05	-2.46	13.73	-0.69	67.30	12.99	55.40
3393	1	0.06	0.16	-9.47	-2.59	0.19	9.86	0.35	-35.93	-85.43	-2.79
3393	2	0.39	0.18	-5.78	-3.21	0.28	8.07	1.83	-21.90	-140.49	-62.54
3393	3	0.14	0.67	-7.32	-2.31	-2.17	7.21	4.27	99.83	-11.08	15.92
3393	4	-0.12	0.59	-11.68	-1.58	-2.23	9.08	2.23	117.53	16.79	37.80
3394	1	0.36	0.13	-1.94	-1.92	-1.62	-1.80	-5.61	-357.65	-6.67	30.39
3394	2	0.90	0.10	-2.96	-1.54	-1.71	-0.78	-4.22	-375.70	27.61	85.64
3394	3	1.21	0.38	-3.60	-1.85	-1.08	1.81	-2.99	-306.22	32.79	64.23
3394	4	0.77	0.47	-2.91	-3.35	-1.15	1.17	-5.46	-285.93	5.36	48.56
3395	1	0.30	0.09	-3.63	-0.81	-1.82	-0.02	-1.49	-378.32	72.02	55.26
3395	2	0.85	0.08	-4.09	0.40	-1.76	2.27	2.17	-413.19	-164.83	45.49
3395	3	1.01	0.28	-3.80	0.78	-1.40	4.38	-0.08	-396.83	-27.43	-59.91
3395	4	0.54	0.33	-4.09	-0.58	-1.12	2.75	-1.13	-307.98	23.85	72.08
3396	1	0.25	0.07	-3.14	1.27	-1.59	4.49	-0.10	-294.34	-71.70	-138.05
3396	2	0.80	0.06	0.43	1.91	-0.82	8.55	-0.73	-401.38	-69.90	-166.10
3396	3	0.83	0.24	1.01	1.49	-0.92	8.91	0.31	-426.73	-46.01	-145.18
3396	4	0.35	0.25	-2.46	1.48	-1.42	5.83	-1.06	-250.67	-140.34	-138.64
3397	1	0.27	0.16	-3.48	-3.95	0.01	2.85	-3.88	-212.08	36.09	-14.22
3397	2	0.66	0.13	-3.67	-1.75	-0.94	2.38	-1.88	-239.15	74.53	-30.89
3397	3	0.89	0.48	-3.91	-0.51	0.40	10.38	-2.94	-35.03	32.71	-3.57
3397	4	0.57	0.60	-4.55	-2.68	2.02	8.40	-3.83	-6.12	56.25	-40.69
3398	1	0.24	0.10	-3.81	-0.22	-1.36	2.80	-0.40	-250.67	-8.17	-0.53
3398	2	0.65	0.08	-3.00	0.62	-1.86	4.95	-0.02	-301.50	29.49	-43.76
3398	3	0.78	0.31	-2.27	0.51	-0.72	15.67	-2.84	-197.62	-13.83	-0.49
3398	4	0.44	0.38	-3.51	0.03	-0.03	11.96	-3.98	-91.60	1.32	-10.94
3399	1	0.20	0.07	-1.77	1.06	-1.66	7.20	-2.35	-211.86	-39.96	6.76
3399	2	0.62	0.06	1.56	0.75	-0.85	9.57	-1.05	-436.19	-76.37	-143.15
3399	3	0.63	0.24	2.00	0.16	-0.31	14.03	0.15	-459.46	-39.26	-50.22
3399	4	0.29	0.26	-1.19	0.30	-0.69	15.50	-3.60	-279.07	10.76	27.42
3400	1	0.20	0.06	4.30	2.63	0.13	7.96	-2.73	-451.24	-146.58	-242.29
3400	2	0.75	0.07	7.19	4.11	1.04	4.46	-4.92	-434.30	-163.96	-201.90
3400	3	0.65	0.25	6.91	2.56	1.27	4.76	-2.99	-521.12	-168.90	-223.49
3400	4	0.17	0.24	4.40	1.57	0.13	8.46	-3.85	-500.71	-107.94	-194.64
3401	1	0.15	0.08	7.37	5.48	1.31	1.64	-7.99	-411.24	-179.73	-163.38
3401	2	0.70	0.09	6.42	6.49	1.06	-1.13	-8.93	-368.52	-143.41	-101.53
3401	3	0.46	0.33	6.39	4.33	1.69	-0.46	-7.96	-436.08	-188.48	-156.14
3401	4	-0.01	0.28	7.30	3.77	1.80	2.19	-5.07	-498.42	-208.07	-207.32
3402	1	0.10	0.10	5.32	6.76	0.68	-1.81	-8.98	-338.00	-119.54	-63.62
3402	2	0.64	0.13	4.28	6.49	0.28	-1.46	-10.15	-311.57	-87.44	-20.18
3402	3	0.23	0.47	4.05	3.82	0.76	-1.31	-8.91	-361.48	-145.29	-83.02
3402	4	-0.21	0.38	5.22	4.32	1.28	-1.67	-8.70	-399.72	-170.57	-121.87
3403	1	0.16	0.06	4.54	0.99	-0.11	8.96	-2.24	-566.99	-49.62	-144.54
3403	2	0.58	0.07	7.08	1.57	1.08	5.20	-1.84	-642.37	-151.42	-209.80
3403	3	0.49	0.26	7.32	0.54	1.23	6.69	0.53	-819.90	-79.35	-178.39
3403	4	0.14	0.24	4.51	0.20	-0.15	12.51	-1.65	-659.43	-9.42	-52.93
3404	1	0.12	0.08	7.80	2.07	1.36	1.39	-3.77	-646.06	-132.32	-174.29
3404	2	0.53	0.10	6.97	2.53	1.57	-2.31	-5.46	-572.15	-176.26	-170.40
3404	3	0.32	0.38	7.42	1.21	2.44	-0.14	-1.93	-788.71	-155.56	-286.43
3404	4	-0.01	0.31	8.27	0.76	1.61	4.11	-0.07	-879.15	-88.16	-204.19
3405	1	0.07	0.13	5.93	2.19	0.97	-5.11	-6.57	-524.38	-146.92	-107.25
3405	2	0.46	0.16	4.10	1.28	0.41	-5.91	-9.14	-447.84	-147.79	-79.65
3405	3	0.16	0.60	3.78	0.31	1.01	-4.78	-5.11	-587.58	-202.01	-270.08
3405	4	-0.16	0.48	6.48	1.07	1.87	-2.58	-2.39	-750.98	-148.57	-254.76
3406	1	0.13	0.21	-0.47	-1.35	1.54	5.61	-2.60	-11.75	-380.22	-25.49

3406	2	0.47	0.21	1.28	-0.92	1.00	5.03	-4.51	-2.90	-406.63	-21.65
3406	3	0.47	0.79	0.12	-1.91	1.41	3.72	-4.55	-3.59	-429.42	-28.94
3406	4	0.13	0.79	-0.88	-2.46	1.81	3.20	-1.87	48.56	-389.60	-28.99
3407	1	0.09	0.21	2.23	-0.42	0.51	5.20	-3.13	-1.93	-421.65	-19.84
3407	2	0.32	0.21	3.35	-0.28	0.13	4.83	-3.72	-1.46	-425.11	-9.97
3407	3	0.32	0.79	1.52	-1.34	0.42	5.58	-6.36	21.24	-443.95	5.84
3407	4	0.09	0.79	0.49	-1.70	1.03	3.82	-2.59	15.13	-441.40	-12.79
3408	1	0.09	0.21	-4.91	-0.36	-0.33	3.94	-0.96	-4.55	-423.66	-6.26
3408	2	0.33	0.21	-4.10	-0.19	-0.35	4.24	3.57	-3.99	-424.64	5.74
3408	3	0.33	0.79	-2.50	0.81	0.09	7.16	1.44	-0.88	-447.45	-5.01
3408	4	0.09	0.79	-4.00	0.60	0.14	9.77	2.65	-1.23	-446.72	-17.13
3409	1	0.09	0.21	5.47	1.03	-0.40	2.01	-2.66	-11.78	-397.31	13.24
3409	2	0.35	0.21	5.61	1.26	-0.40	2.72	3.67	-10.26	-379.08	25.11
3409	3	0.35	0.79	6.15	0.46	0.02	6.15	-3.88	-19.65	-430.33	43.21
3409	4	0.09	0.79	5.21	0.41	0.04	3.53	-2.14	-16.11	-427.54	26.81
3410	1	0.09	0.21	-4.80	-1.13	0.08	-2.18	-1.11	-32.41	-386.67	-50.92
3410	2	0.33	0.21	-5.51	-1.32	0.00	-3.71	-1.43	-24.64	-351.72	-34.50
3410	3	0.33	0.79	-6.33	-1.03	0.13	-4.24	0.87	-30.22	-384.03	-52.04
3410	4	0.09	0.79	-5.49	-0.83	0.15	-2.93	2.99	-23.80	-360.34	-71.71
3411	1	0.23	0.21	3.60	0.86	0.57	-3.55	1.74	-9.01	-507.21	127.27
3411	2	0.86	0.21	1.96	0.50	0.75	-2.95	-1.74	-6.32	-473.48	-106.08
3411	3	0.86	0.79	2.24	0.32	0.90	-2.56	0.25	20.00	-450.81	-29.51
3411	4	0.23	0.79	4.11	0.63	0.59	-3.79	0.72	19.94	-464.61	52.00
3412	1	0.30	0.17	1.11	0.70	0.93	0.68	2.23	-12.75	-304.18	-21.45
3412	2	1.10	0.05	-0.31	0.68	1.07	-3.89	-0.25	-8.04	-220.68	5.24
3412	3	1.10	0.63	-0.09	0.45	0.91	-1.69	-1.96	-15.05	-258.19	2.15
3412	4	0.30	0.75	1.12	0.54	1.21	-1.24	-0.53	-21.85	-291.38	-39.66
3413	1	0.18	0.21	-25.71	-2.31	-1.22	1.69	-0.13	-39.50	-361.03	-59.73
3413	2	0.67	0.21	-26.06	-1.34	-1.75	0.84	3.78	-74.88	-353.65	-60.23
3413	3	0.67	0.79	-25.36	-0.65	-0.46	1.56	2.06	-94.04	-389.43	-9.60
3413	4	0.18	0.79	-25.35	-1.44	-0.67	1.99	-0.10	-53.08	-362.46	-28.14
3414	1	0.21	0.21	-27.15	-4.41	-0.58	0.84	-1.01	36.11	-256.17	-3.38
3414	2	0.78	0.21	-26.81	-4.28	-1.02	3.07	1.35	-49.63	-292.26	-72.10
3414	3	0.78	0.79	-26.12	-3.76	-0.86	1.88	2.31	-19.56	-268.06	-22.42
3414	4	0.21	0.79	-27.33	-4.05	-0.62	2.25	-2.21	13.93	-220.36	6.41
3415	1	0.21	0.34	1.00	8.26	0.70	-1.36	20.26	-222.80	9.92	53.03
3415	2	0.79	0.34	0.60	8.03	0.63	-0.74	15.07	-223.31	19.26	46.07
3415	3	0.79	1.28	2.83	22.54	0.39	0.04	14.71	-177.20	15.41	31.90
3415	4	0.21	1.28	4.30	22.92	0.43	-6.89	14.09	-206.73	6.01	22.32
3416	1	0.21	0.29	-3.02	-12.87	0.47	-0.10	13.32	-221.74	3.54	30.44
3416	2	0.79	0.29	-3.27	-12.89	0.31	-0.44	13.03	-229.73	6.23	27.31
3416	3	0.79	1.09	-1.17	-1.80	0.41	-0.69	14.82	-225.82	11.77	39.43
3416	4	0.21	1.09	-1.19	-2.11	0.50	2.51	10.85	-214.86	6.22	39.49
3417	1	0.21	0.32	-5.10	-23.96	0.09	0.83	4.87	-220.96	0.92	11.52
3417	2	0.79	0.32	-5.13	-23.92	0.03	-0.10	4.93	-226.75	-2.51	9.34
3417	3	0.79	1.19	-4.31	-18.83	0.16	0.17	6.34	-228.31	2.33	19.04
3417	4	0.21	1.19	-4.10	-19.03	0.21	-0.86	7.01	-221.58	2.68	21.49
3418	1	0.21	0.28	-4.89	-23.17	-0.05	0.12	-3.15	-218.82	-1.75	-0.99
3418	2	0.79	0.28	-4.87	-23.13	-0.07	0.23	-3.02	-223.08	-6.37	-1.49
3418	3	0.79	1.06	-5.26	-24.99	-0.03	-0.51	-1.81	-224.87	-4.73	4.34
3418	4	0.21	1.06	-5.30	-25.09	-0.01	0.29	-1.81	-219.85	-0.67	5.65
3419	1	0.30	0.21	1.02	0.11	1.40	-3.17	2.32	-6.11	-343.63	-33.54
3419	2	1.10	0.21	-0.05	0.31	0.94	1.74	-3.40	3.33	-265.06	-12.88
3419	3	1.10	0.79	0.07	0.12	1.34	-0.82	-3.43	0.37	-290.21	-15.60
3419	4	0.30	0.79	1.13	-0.03	1.67	-1.52	2.10	0.60	-334.22	-24.56
3420	1	0.23	0.21	4.43	0.12	0.78	-3.14	0.62	0.52	-403.72	14.00
3420	2	0.86	0.21	2.44	0.14	0.99	-0.97	-3.00	6.65	-371.46	2.88
3420	3	0.86	0.79	2.46	-0.11	1.30	-2.27	-2.09	-4.56	-348.47	-10.44
3420	4	0.23	0.79	4.62	-0.50	1.38	-2.33	1.33	-13.09	-366.94	15.30
3421	1	0.09	0.21	-5.56	0.24	0.37	-2.60	2.70	-13.33	-431.78	-60.03
3421	2	0.33	0.21	-6.37	0.13	0.17	-2.28	0.02	-11.30	-410.39	-54.77
3421	3	0.33	0.79	-6.45	1.14	0.55	0.08	-4.09	-17.55	-409.43	-43.98
3421	4	0.09	0.79	-5.82	1.02	1.09	-2.29	2.83	-13.87	-397.78	-30.53
3422	1	0.09	0.21	4.49	-1.50	0.17	5.23	-4.14	-13.15	-446.49	34.32
3422	2	0.35	0.21	6.04	-1.25	0.13	6.14	-6.12	-18.33	-444.52	43.92
3422	3	0.35	0.79	5.98	-3.91	0.58	8.14	-9.16	-19.51	-456.55	49.93
3422	4	0.09	0.79	3.66	-4.26	0.57	11.31	0.60	-7.77	-461.73	53.30
3423	1	0.09	0.21	-3.30	1.97	0.33	9.26	8.52	-10.31	-470.51	-27.53
3423	2	0.33	0.21	-1.12	2.31	0.36	7.60	1.81	-1.67	-466.96	-20.99
3423	3	0.33	0.79	1.08	6.16	0.56	13.96	3.99	31.44	-467.60	-46.34
3423	4	0.09	0.79	-2.22	5.89	0.53	10.63	12.69	0.04	-484.17	-48.52
3424	1	0.09	0.21	-0.37	-2.42	1.59	2.95	-2.82	10.72	-431.57	13.46
3424	2	0.32	0.21	0.16	-2.34	0.76	4.27	-10.62	-1.62	-453.88	12.44
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3424	4	0.09	0.79	-1.36	-4.88	2.00	-0.08	-3.89	66.16	-495.73	40.22
3425	1	0.13	0.21	-0.76	-3.34	2.19	1.77	-0.62	46.42	-456.39	-28.74
3425	2	0.47	0.21	-0.58	-3.07	1.92	1.25	-5.52	45.08	-458.88	9.99
3425	3	0.47	0.79	-1.01	-4.39	2.16	-4.69	-4.92	110.04	-512.49	29.38
3425	4	0.13	0.79	0.22	-4.15	2.27	-1.13	1.01	-57.02	-468.01	-75.39
3426	1	0.18	0.21	-24.74	-1.13	-0.56	2.59	0.74	-68.99	-371.79	6.72
3426	2	0.67	0.21	-23.96	-0.40	0.47	2.13	4.78	-119.39	-414.44	32.59
3426	3	0.67	0.79	-20.89	-0.55	1.12	4.10	3.30	-143.52	-464.60	100.12
3426	4	0.18	0.79	-23.45	-1.15	-0.46	5.25	-0.10	-81.36	-381.11	73.30
3427	1	0.21	0.21	-27.36	-4.04	-0.53	3.13	-1.67	0.73	-197.55	24.08
3427	2	0.78	0.21	-25.63	-3.57	-0.78	2.91	1.12	-22.66	-252.71	17.20
3427	3	0.78	0.79	-25.12	-3.47	-0.72	3.89	1.69	-40.92	-251.53	67.04
3427	4	0.21	0.79	-27.33	-3.92	-0.51	3.94	-1.81	5.86	-192.70	58.36
3428	1	0.21	0.34	0.26	7.93	0.46	0.86	14.70	-223.97	22.27	42.23
3428	2	0.79	0.34	0.22	7.98	0.29	0.49	15.14	-230.65	23.36	38.62
3428	3	0.79	1.28	2.85	22.55	0.29	-0.82	15.82	-170.35	17.02	52.23
3428	4	0.21	1.28	3.16	22.58	0.30	-1.72	16.16	-170.54	16.86	40.32
3429	1	0.21	0.29	-3.31	-12.82	0.20	1.04	12.46	-235.47	7.23	23.36
3429	2	0.79	0.29	-3.30	-12.66	0.01	0.22	13.02	-242.90	9.26	16.79
3429	3	0.79	1.09	-1.38	-1.57	0.11	0.22	13.95	-240.67	14.58	27.68
3429	4	0.21	1.09	-1.43	-1.70	0.31	-1.04	15.10	-231.81	15.01	35.66
3430	1	0.21	0.32	-5.11	-23.87	-0.02	0.49	5.03	-230.40	-5.66	7.17
3430	2	0.79	0.32	-5.02	-23.80	-0.10	0.05	4.99	-234.55	-11.99	3.94
3430	3	0.79	1.19	-4.25	-18.66	-0.10	-0.34	6.38	-240.20	-4.07	9.81
3430	4	0.21	1.19	-4.26	-18.71	0.06	0.10	6.44	-233.98	0.69	15.96
3431	1	0.21	0.28	-4.82	-23.10	-0.07	0.10	-3.13	-225.68	-10.58	-1.96
3431	2	0.79	0.28	-4.72	-23.08	-0.09	0.24	-3.06	-228.19	-17.87	-2.59
3431	3	0.79	1.06	-5.16	-24.95	-0.13	-0.22	-1.82	-231.19	-15.64	0.29
3431	4	0.21	1.06	-5.26	-24.96	-0.07	0.62	-1.84	-228.05	-8.65	2.74
3432	1	0.30	0.21	1.20	0.01	1.87	-1.09	2.10	0.66	-327.39	-25.99
3432	2	1.10	0.21	0.17	0.07	1.29	-0.50	-3.54	-2.30	-307.33	-15.18
3432	3	1.10	0.79	0.12	0.04	1.36	-0.62	-3.57	0.62	-329.90	-14.43
3432	4	0.30	0.79	1.05	0.07	2.10	-1.53	1.94	0.08	-325.61	-29.14
3433	1	0.23	0.21	4.50	-0.49	1.99	-2.43	1.41	-15.37	-349.53	11.55
3433	2	0.86	0.21	2.40	-0.17	1.66	-2.44	-2.05	-6.83	-337.11	-18.70
3433	3	0.86	0.79	2.18	0.08	2.01	-1.69	-2.06	-3.26	-320.43	-22.83
3433	4	0.23	0.79	3.91	-0.08	2.63	-2.86	2.03	-7.10	-318.36	3.39
3434	1	0.09	0.21	-5.85	1.28	1.96	-1.31	1.75	-18.95	-367.96	-26.59
3434	2	0.33	0.21	-6.45	1.29	1.12	-0.29	-10.71	-23.06	-386.06	-44.31
3434	3	0.33	0.79	-5.69	0.43	1.74	-1.78	-17.37	-10.83	-333.04	-43.47
3434	4	0.09	0.79	-5.13	0.21	3.04	-1.12	1.62	-10.48	-326.84	-24.03
3435	1	0.09	0.21	3.78	-5.20	1.48	12.73	12.82	-3.97	-446.45	77.97

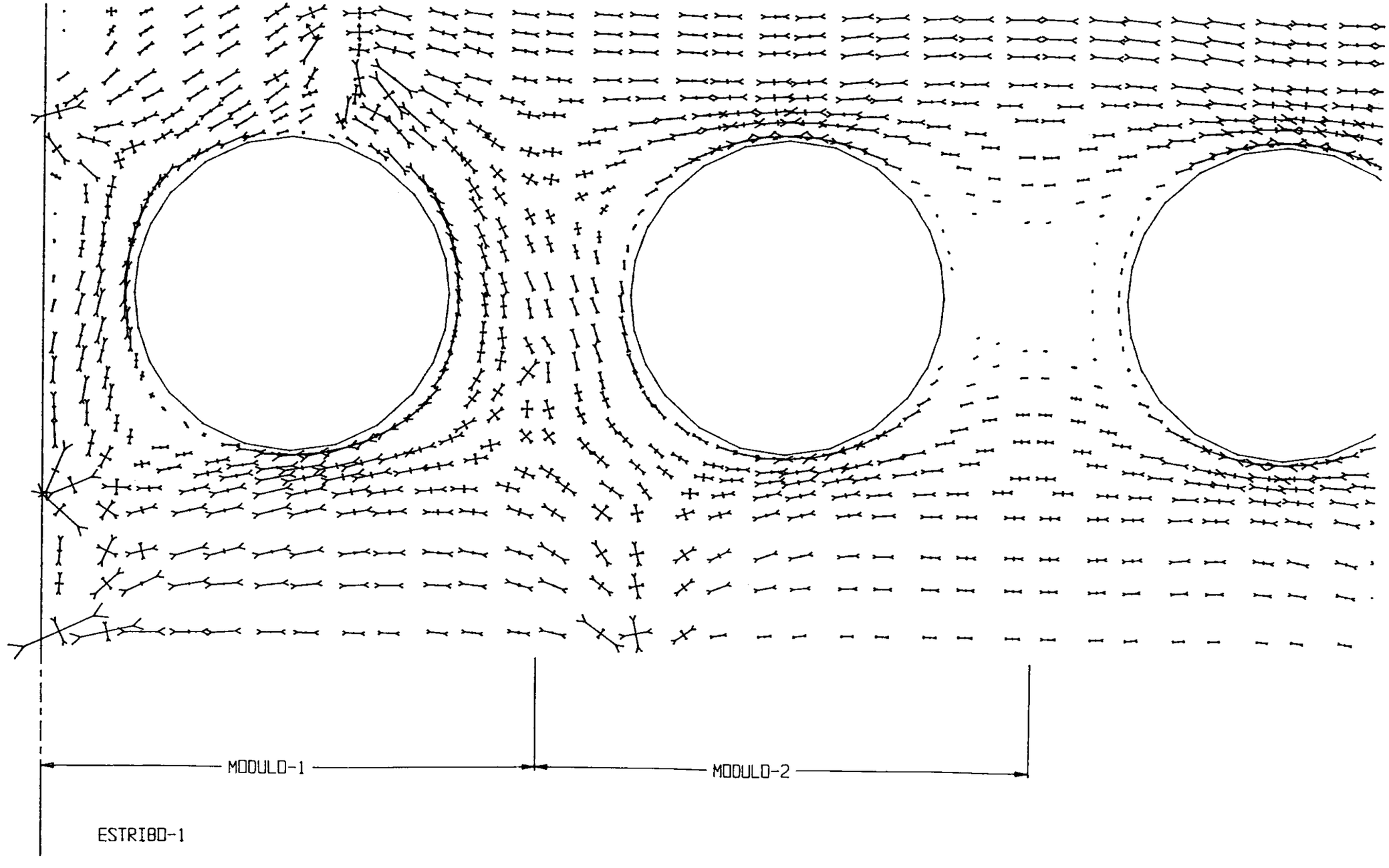
3435	2	0.35	0.21	5.86	-4.88	1.49	10.04	-10.61	-12.53	-431.29	58.42
3435	3	0.35	0.79	5.52	-1.96	2.73	5.16	-11.77	-6.58	-366.29	71.27
3435	4	0.09	0.79	4.80	-2.28	2.72	5.51	30.05	-2.79	-372.50	111.94
3436	1	0.09	0.21	-1.60	8.10	1.43	14.38	11.42	29.58	-473.72	-95.30
3436	2	0.33	0.21	1.48	8.69	1.37	20.08	-12.97	56.32	-477.29	-112.05
3436	3	0.33	0.79	-2.44	3.49	2.45	9.46	-38.31	26.74	-377.26	-201.11
3436	4	0.09	0.79	-3.53	3.37	2.56	6.95	4.74	19.12	-387.61	-150.26
3437	1	0.09	0.21	-1.47	-5.67	1.95	-2.02	5.60	191.82	-422.35	152.99
3437	2	0.32	0.21	-2.39	-6.49	1.11	-7.62	-9.21	134.50	-464.52	133.33
3437	3	0.32	0.79	1.94	-1.92	1.14	-4.70	2.69	51.89	-358.90	249.93
3437	4	0.09	0.79	2.11	-1.49	1.47	-1.60	22.78	56.30	-300.79	314.90
3438	1	0.13	0.21	0.92	-3.71	1.89	-4.01	5.15	-204.68	-323.61	97.74
3438	2	0.47	0.21	-0.37	-4.87	1.75	-7.76	0.61	-48.12	-381.68	135.44
3438	3	0.47	0.79	2.60	-0.60	0.83	-2.30	8.61	-175.78	-299.05	266.37
3438	4	0.13	0.79	2.16	0.03	0.97	-0.93	10.21	-154.74	-342.59	204.20
3439	1	0.18	0.21	-22.25	-1.40	-0.68	5.23	-0.88	-86.16	-393.01	129.12
3439	2	0.67	0.21	-18.31	-1.69	0.76	8.30	2.75	-148.67	-497.59	154.92
3439	3	0.67	0.79	-15.73	-3.62	-1.99	9.57	0.78	-97.01	-519.16	215.54
3439	4	0.18	0.79	-21.91	-2.22	-1.77	7.48	-3.01	-56.02	-431.40	194.75
3440	1	0.21	0.21	-27.35	-3.82	-0.51	3.87	-1.81	8.25	-206.07	85.30
3440	2	0.78	0.21	-24.76	-3.53	-0.85	5.19	0.63	-40.51	-267.07	110.75
3440	3	0.78	0.79	-24.49	-3.62	-1.16	4.69	-2.23	-18.84	-300.46	162.62
3440	4	0.21	0.79	-27.75	-4.06	-0.55	3.58	-2.53	10.06	-246.13	113.37
3441	1	0.21	0.34	0.26	8.01	0.12	0.46	15.20	-239.00	21.05	34.68
3441	2	0.79	0.34	0.46	8.06	-0.09	0.94	14.22	-255.08	12.51	26.99
3441	3	0.79	1.28	3.27	23.02	0.17	0.65	15.74	-208.21	14.08	70.54
3441	4	0.21	1.28	2.90	22.67	0.14	0.36	15.80	-179.57	16.76	61.05
3442	1	0.21	0.29	-3.17	-12.53	-0.25	1.08	13.12	-248.66	-1.09	10.39
3442	2	0.79	0.29	-2.90	-12.37	-0.42	0.31	13.55	-254.55	-12.96	0.54
3442	3	0.79	1.09	-1.12	-1.17	-0.24	0.90	14.74	-257.40	2.35	13.37
3442	4	0.21	1.09	-1.34	-1.44	-0.02	0.04	13.60	-247.82	11.31	21.88
3443	1	0.21	0.32	-4.92	-23.78	-0.18	0.69	5.04	-236.87	-18.34	0.16
3443	2	0.79	0.32	-4.70	-23.78	-0.38	-0.09	5.07	-238.26	-29.43	-4.44
3443	3	0.79	1.19	-3.88	-18.63	-0.37	0.09	6.14	-246.45	-20.58	-1.76
3443	4	0.21	1.19	-4.13	-18.64	-0.23	0.60	6.35	-243.05	-9.61	9.76
3444	1	0.21	0.28	-4.61	-23.09	-0.10	0.23	-3.14	-229.21	-24.29	-3.09
3444	2	0.79	0.28	-4.39	-23.13	-0.13	0.26	-3.20	-229.39	-34.40	-3.72
3444	3	0.79	1.06	-4.83	-24.96	-0.23	0.13	-1.71	-232.98	-32.56	-4.07
3444	4	0.21	1.06	-5.04	-24.95	-0.17	0.48	-1.80	-232.54	-22.08	-1.70
3445	1	0.30	0.21	0.92	0.14	2.16	-1.36	2.00	1.74	-324.90	-29.95
3445	2	1.10	0.21	0.08	0.09	1.41	-0.26	-3.64	1.96	-346.97	-13.22
3445	3	1.10	0.79	0.00	0.07	1.42	-0.38	-3.88	0.88	-368.26	-11.42
3445	4	0.30	0.79	0.73	0.28	2.15	-2.10	2.21	4.30	-325.50	-27.45
3446	1	0.23	0.21	3.34	0.71	2.79	-2.14	2.25	3.63	-293.39	0.96
3446	2	0.86	0.21	1.85	0.32	2.11	-2.39	-1.97	3.57	-311.78	-23.50
3446	3	0.86	0.79	1.62	0.80	1.95	-1.58	-1.47	12.43	-297.61	-18.27
3446	4	0.23	0.79	2.65	1.54	2.44	-2.97	2.13	15.99	-261.57	2.50
3447	1	0.09	0.21	-4.00	-0.87	3.24	-3.78	1.03	2.42	-289.47	-24.20
3447	2	0.33	0.21	-4.74	-1.24	1.84	-2.60	-18.98	3.52	-279.90	-48.77
3447	3	0.33	0.79	-4.15	-2.75	1.43	-5.58	-14.93	16.26	-217.29	-43.73
3447	4	0.09	0.79	-3.28	-2.61	2.58	-4.37	0.31	17.83	-243.58	-23.38
3448	1	0.09	0.21	6.09	2.47	2.77	-4.74	31.57	-0.94	-287.36	118.16
3448	2	0.35	0.21	5.38	2.15	2.85	-5.13	-11.45	-1.75	-301.76	73.97
3448	3	0.35	0.79	5.57	6.38	1.86	-12.82	-9.56	5.76	-223.21	64.44
3448	4	0.09	0.79	8.47	6.81	1.79	-14.91	19.55	-4.24	-199.57	93.12
3449	1	0.09	0.21	-7.12	-4.20	2.42	-4.74	4.25	-20.47	-294.03	-150.43
3449	2	0.33	0.21	-7.47	-4.22	2.24	-7.27	-36.70	-24.08	-276.15	-199.89
3449	3	0.33	0.79	-12.85	-10.09	1.26	-13.96	-14.99	-48.59	-216.00	-134.71
3449	4	0.09	0.79	-10.49	-9.75	1.36	-10.59	6.95	-26.62	-306.50	-114.09
3450	1	0.09	0.21	6.91	4.30	1.04	2.39	17.58	-91.71	-285.63	218.73
3450	2	0.32	0.21	7.61	4.71	0.67	5.41	2.72	-63.77	-273.43	226.03
3450	3	0.32	0.79	13.02	8.79	0.53	9.82	-2.64	-63.05	-226.26	148.80
3450	4	0.09	0.79	11.09	8.29	0.55	7.46	9.57	-89.83	-263.84	165.29
3451	1	0.13	0.21	3.80	4.18	0.20	4.53	10.26	-65.99	-398.29	252.53
3451	2	0.47	0.21	5.48	4.14	0.25	5.34	8.30	-121.26	-330.25	202.84
3451	3	0.47	0.79	8.97	7.83	-0.05	9.99	3.35	-118.06	-312.57	175.53
3451	4	0.13	0.79	5.78	7.33	-0.53	7.90	5.74	-155.35	-389.92	190.78
3452	1	0.18	0.21	-22.52	-3.00	-3.07	6.69	-7.79	1.07	-479.28	222.24
3452	2	0.67	0.21	-16.25	-4.06	-4.92	9.08	-3.95	-15.31	-511.38	242.27
3452	3	0.67	0.79	-20.01	-3.57	-7.50	8.06	-4.55	57.72	-475.20	226.79
3452	4	0.18	0.79	-23.93	-2.95	-4.26	1.06	-9.28	38.07	-529.90	229.02
3453	1	0.21	0.21	-28.05	-4.46	-0.24	5.59	-2.05	18.41	-291.56	122.85
3453	2	0.78	0.21	-25.03	-3.90	-1.33	5.03	-2.19	6.95	-331.61	152.15
3453	3	0.78	0.79	-26.62	-4.15	-1.83	5.11	-1.42	32.27	-391.96	173.55
3453	4	0.21	0.79	-28.19	-4.23	-0.16	9.15	-0.94	21.51	-356.25	131.71
3454	1	0.21	0.34	0.74	8.41	-0.11	2.29	14.94	-267.57	3.77	21.32
3454	2	0.79	0.34	1.09	9.28	-0.27	-1.17	16.01	-290.01	-13.14	13.06
3454	3	0.79	1.28	3.81	23.16	0.33	-0.96	19.97	-282.44	5.53	64.78
3454	4	0.21	1.28	3.75	23.19	0.26	1.30	16.98	-237.95	10.82	72.04
3455	1	0.21	0.29	-2.66	-12.39	-0.56	0.51	13.44	-265.88	-23.54	-5.99
3455	2	0.79	0.29	-2.20	-12.58	-0.70	1.40	13.06	-257.95	-43.31	-12.42
3455	3	0.79	1.09	-0.38	-0.71	-0.94	3.63	12.13	-279.75	-32.11	-11.60
3455	4	0.21	1.09	-0.72	-0.95	-0.56	0.28	14.15	-263.28	-9.24	4.92
3456	1	0.21	0.32	-4.45	-23.80	-0.39	0.83	4.95	-237.36	-29.01	-7.13
3456	2	0.79	0.32	-4.07	-23.89	-0.45	0.59	5.07	-235.77	-53.26	-9.11
3456	3	0.79	1.19	-3.20	-18.51	-0.70	-0.73	7.45	-247.56	-44.72	-12.69
3456	4	0.21	1.19	-3.75	-18.62	-0.32	1.09	6.56	-249.04	-31.93	-7.26
3457	1	0.21	0.28	-4.20	-23.18	-0.13	0.23	-3.01	-228.60	-42.68	-3.93
3457	2	0.79	0.28	-3.94	-23.26	-0.11	0.32	-2.98	-226.90	-54.09	-3.83
3457	3	0.79	1.06	-4.29	-25.08	-0.31	-0.20	-1.69	-231.00	-53.93	-6.72
3457	4	0.21	1.06	-4.61	-25.00	-0.27	0.60	-1.66	-232.69	-41.45	-5.60
3458	1	0.30	0.21	0.88	0.41	2.03	-1.20	3.10	5.89	-318.67	-19.75
3458	2	1.10	0.21	0.22	0.09	1.68	0.11	-4.07	-2.92	-365.52	-11.88
3458	3	1.10	0.79	0.55	-0.20	1.13	-4.64	-4.61	-4.09	-397.93	-13.19
3458	4	0.30	0.79	1.20	0.45	1.77	0.52	3.37	10.76	-316.69	-4.89
3459	1	0.23	0.21	2.47	2.10	1.93	-3.51	2.28	22.64	-240.54	5.61
3459	2	0.86	0.21	1.42	0.95	1.55	-2.57	-2.34	16.11	-294.71	-13.17
3459	3	0.86	0.79	1.30	1.10	0.98	-3.46	-2.23	18.17	-284.15	-7.56
3459	4	0.23	0.79	2.77	2.43	1.11	-4.02	2.03	25.12	-219.26	7.79
3460	1	0.09	0.21	-3.32	-3.14	1.77	-4.98	0.22	22.33	-213.67	-21.18
3460	2	0.33	0.21	-4.44	-3.71	0.89	-7.63	-9.34	18.97	-182.34	-37.39
3460	3	0.33	0.79	-5.04	-4.08	0.34	-7.11	-3.38	19.22	-154.27	-26.25
3460	4	0.09	0.79	-3.71	-3.74	0.66	-6.17	-0.36	23.83	-187.34	-18.70
3461	1	0.09	0.21	9.77	7.93	0.96	-17.08	8.27	-3.48	-164.41	69.24
3461	2	0.35	0.21	6.08	7.30	0.96	-13.86	-6.27	10.56	-162.37	49.94
3461	3	0.35	0.79	6.96	7.38	0.19	-14.91	-2.36	8.52	-151.68	31.97
3461	4	0.09	0.79	10.52	8.02	0.17	-15.54	1.16	-1.06	-134.93	40.37
3462	1	0.09	0.21	-11.79	-10.34	0.64	-10.22	5.30	-18.49	-170.03	-81.34
3462	2	0.33	0.21	-14.63	-10.45	0.62	-12.89	-7.21	-42.32	-183.49	-96.95
3462	3	0.33	0.79	-15.21	-10.09	0.02	-11.68	2.46	-35.13	-169.20	-48.58
3462	4	0.09	0.79	-12.79	-9.62	0.03	-10.90	2.96	-19.87	-143.77	-44.60
3463	1	0.09	0.21	12.73	8.72	0.26	6.79	3.20	-87.96	-250.75	112.23
3463	2	0.32	0.21	14.95	9.39	0.30	8.03	-3.61	-63.74	-205.22	104.16
3463	3	0.32	0.79	15.51	8.40	-0.01	7.14	-2.85	-46.48	-186.52	52.34
3463	4	0.09	0.79	13.85	8.02	-0.11	6.69	-1.38	-65.06	-229.40	59.68
3464	1	0.13	0.21	7.17	7.61	-0.75	8.22	1.68	-156.99	-358.75	137.33

| | | |

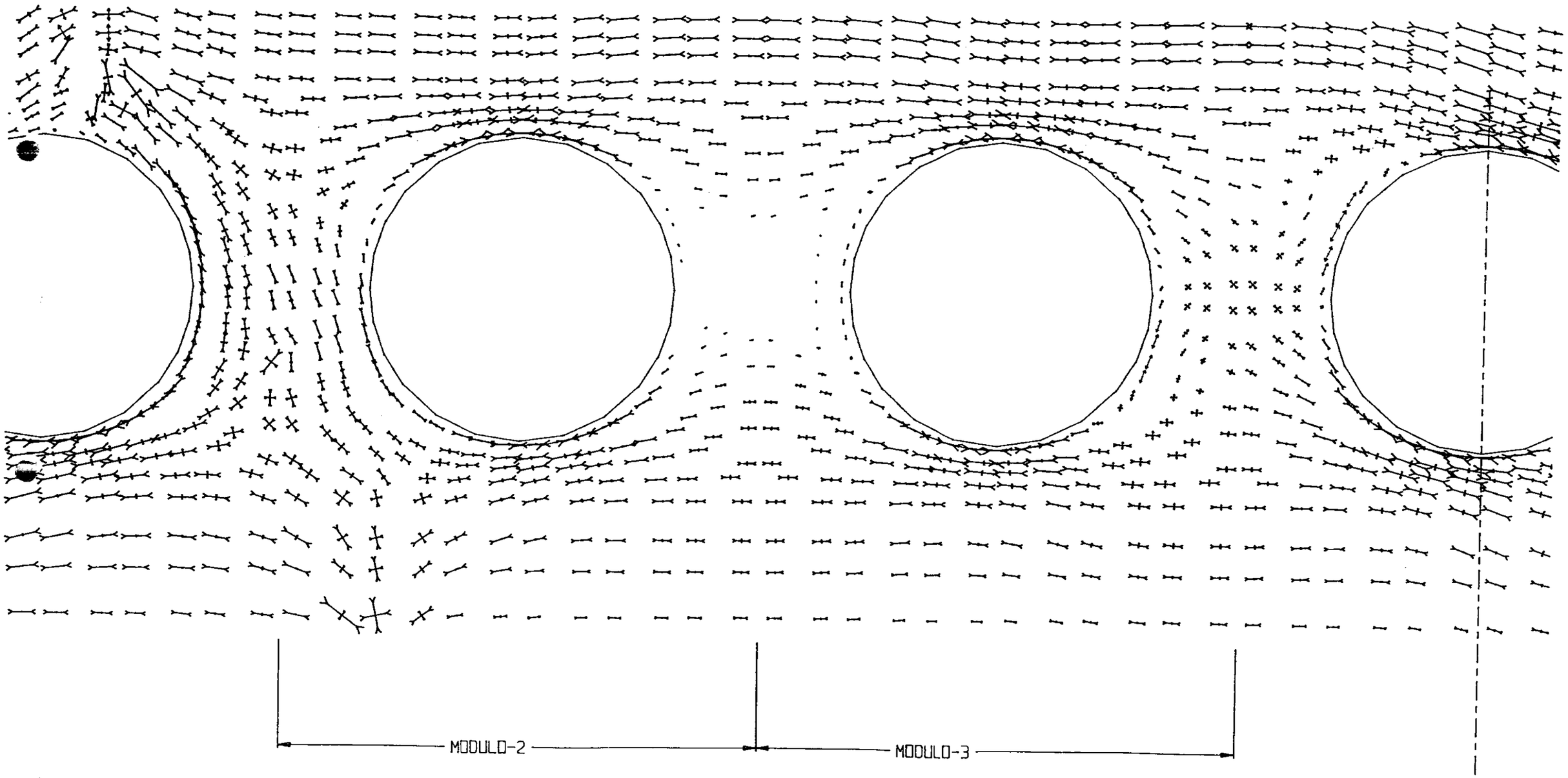
REPRESENTACION GRAFICA

PLANO DE ALMAS

lma
nipo II c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
plano de almas (Tensiones en el plano medio)

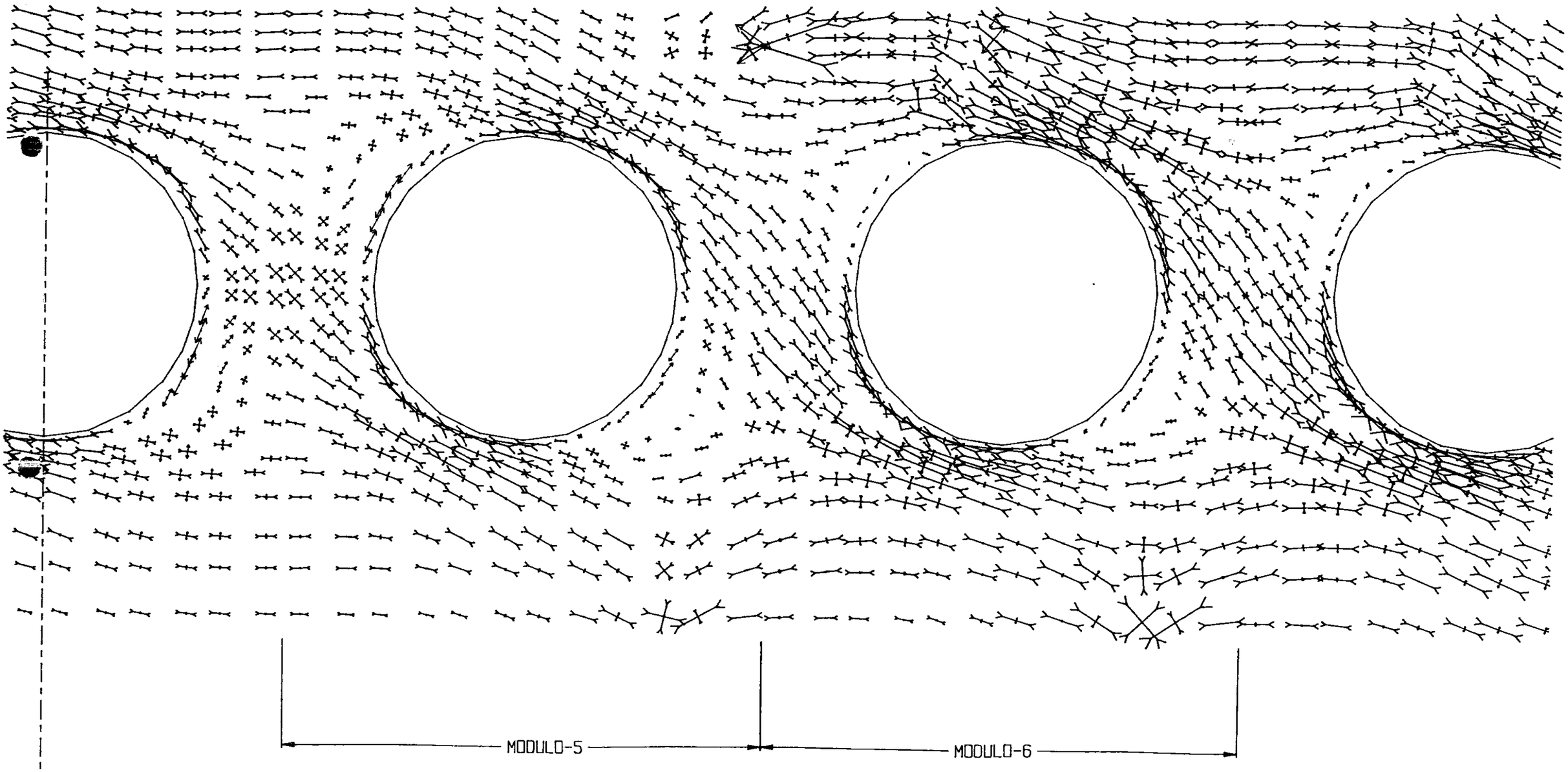


alma
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plano de almas (Tensiones en el plano medio)



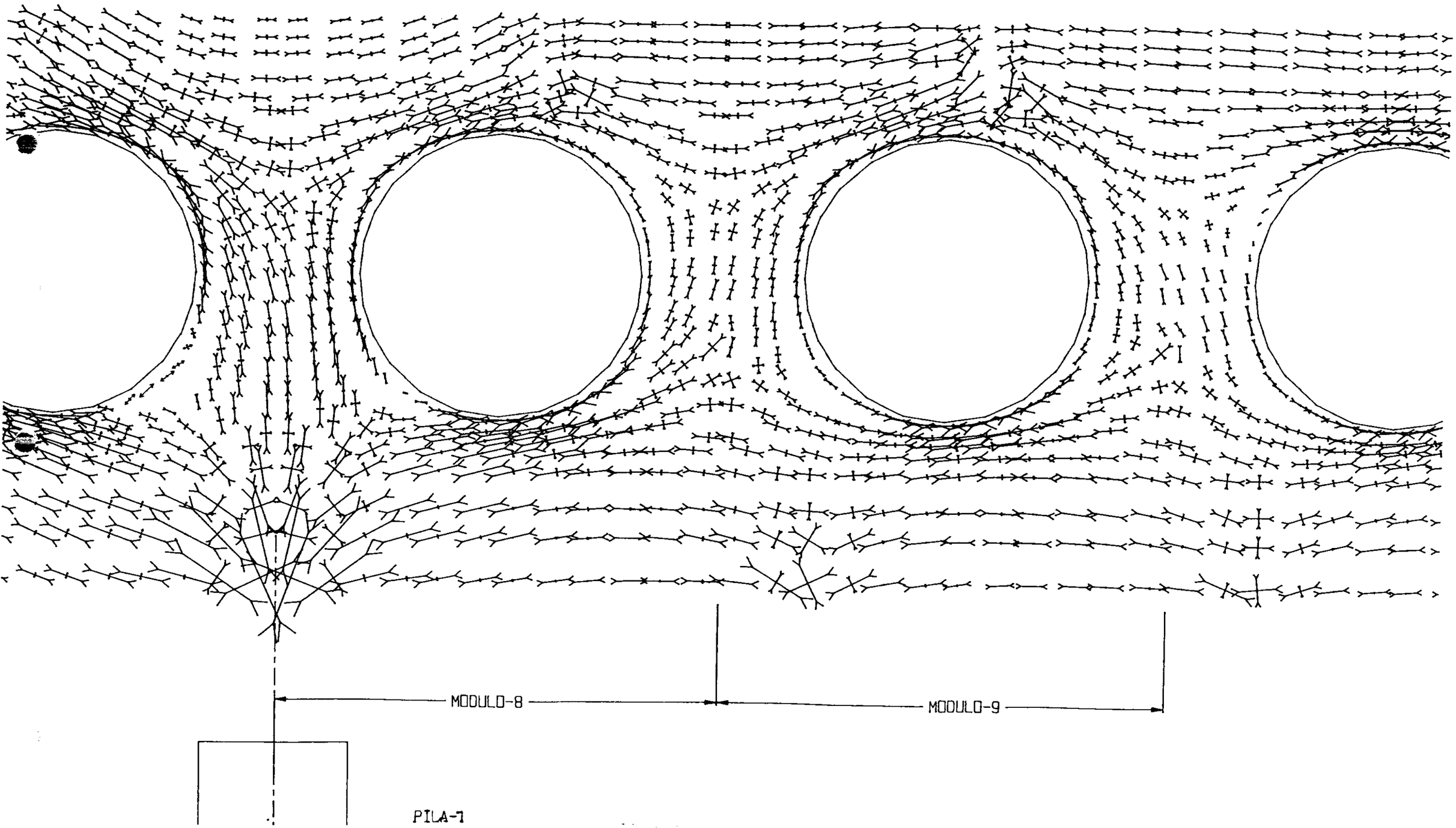
alma
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plano de almas (Tensiones en el plano medio)

⟷ 2000.



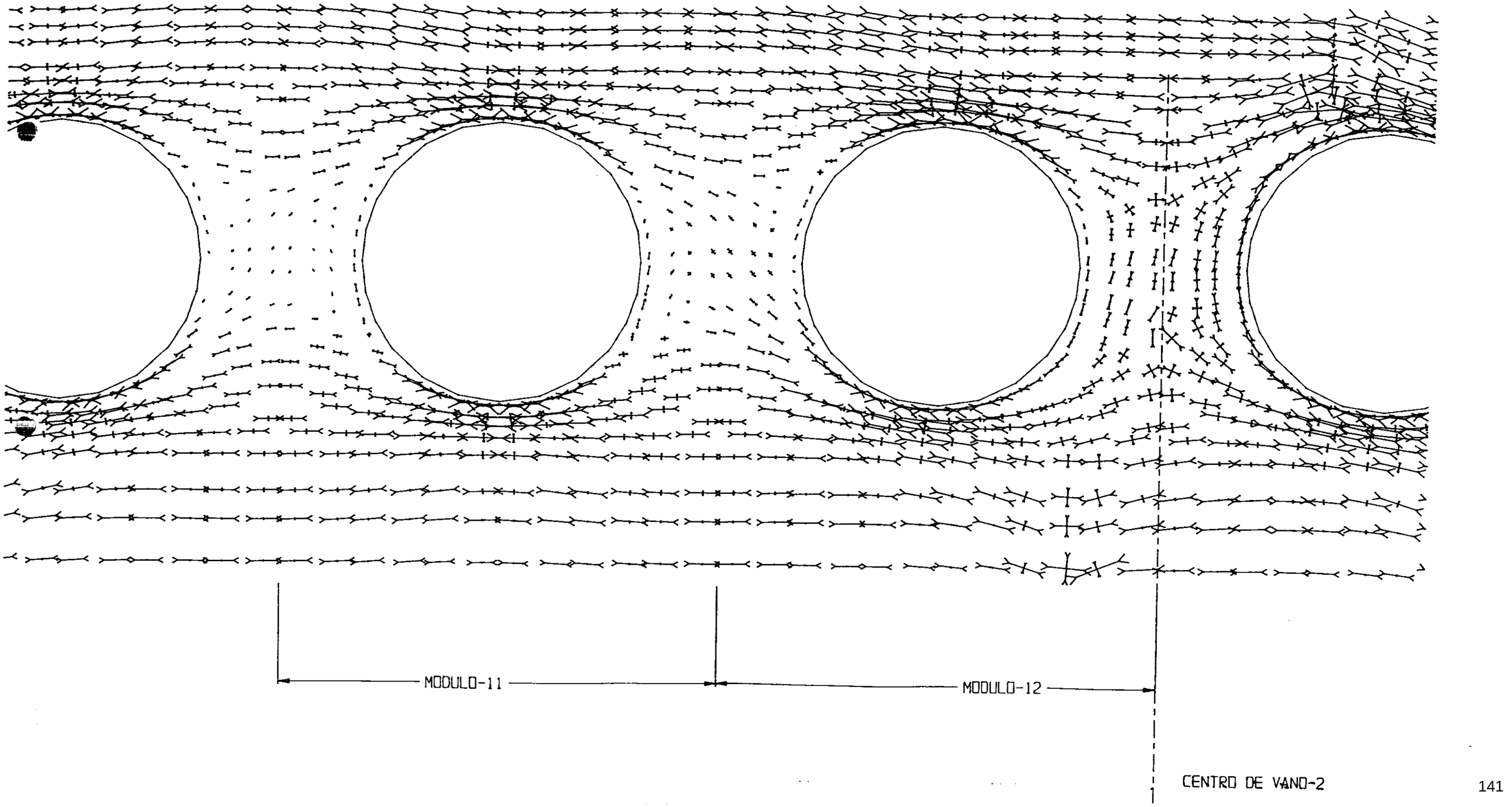
CENTRO DE VANO-7

alma
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plano de almas (Tensiones en el plano medio)

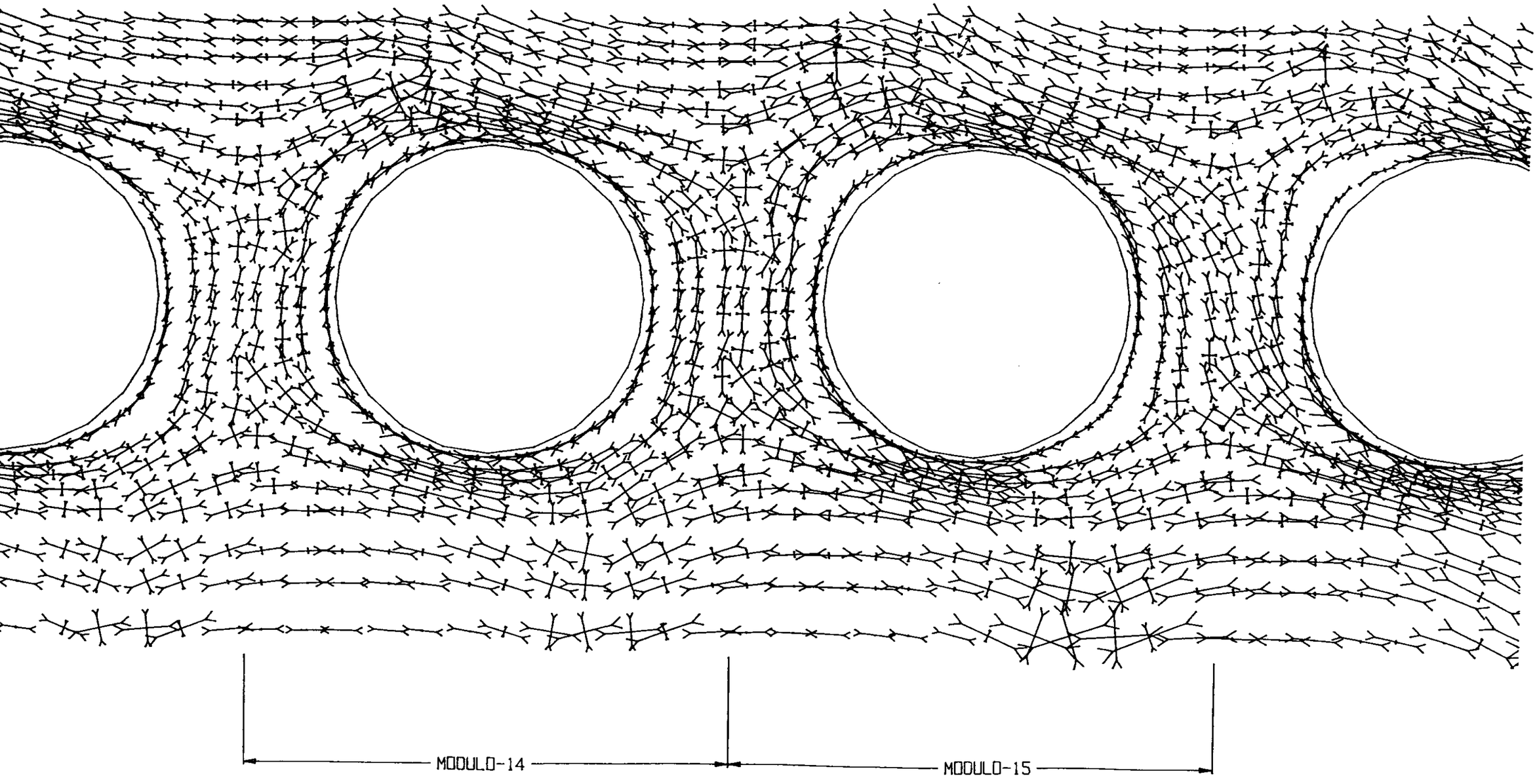


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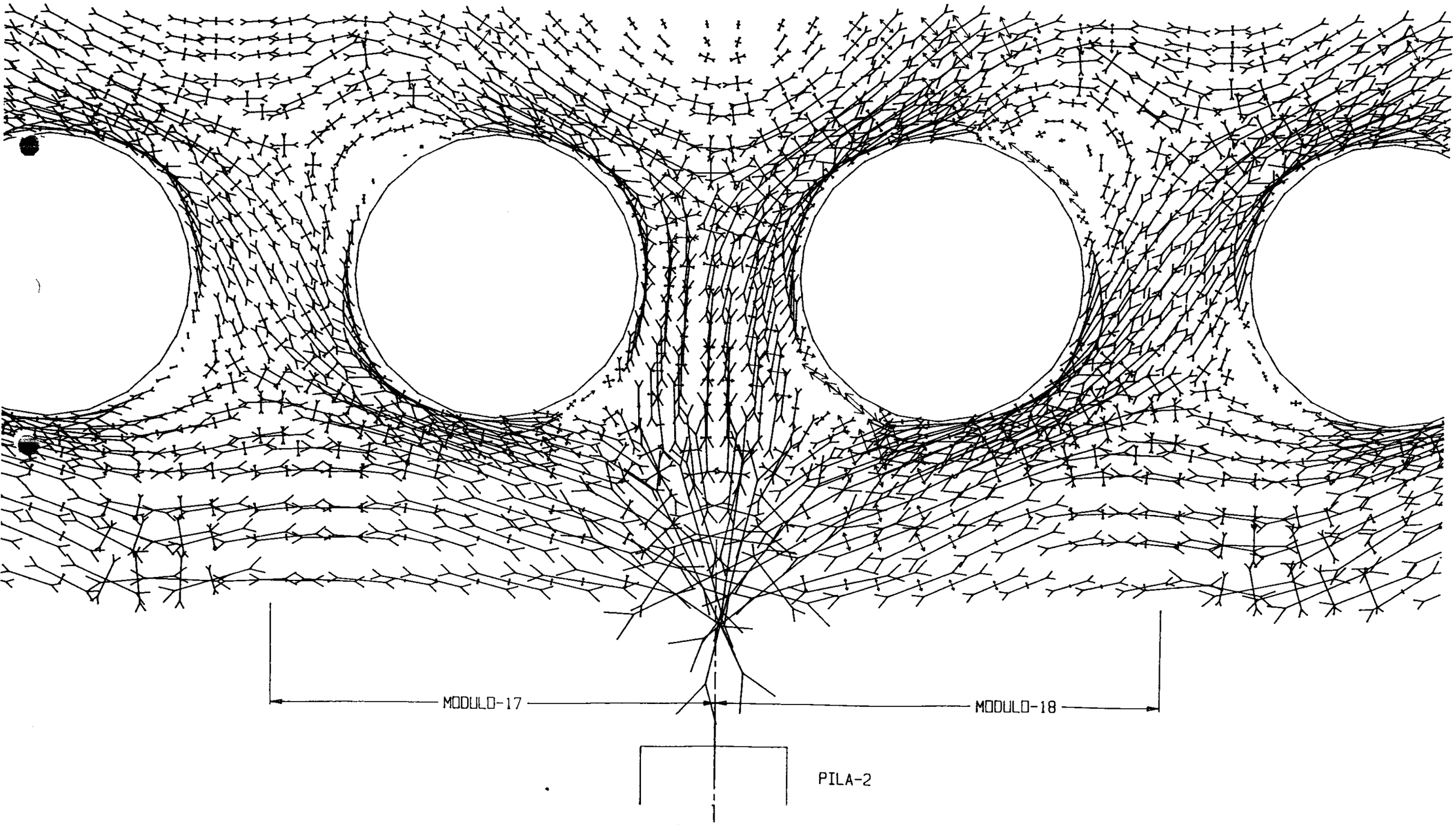
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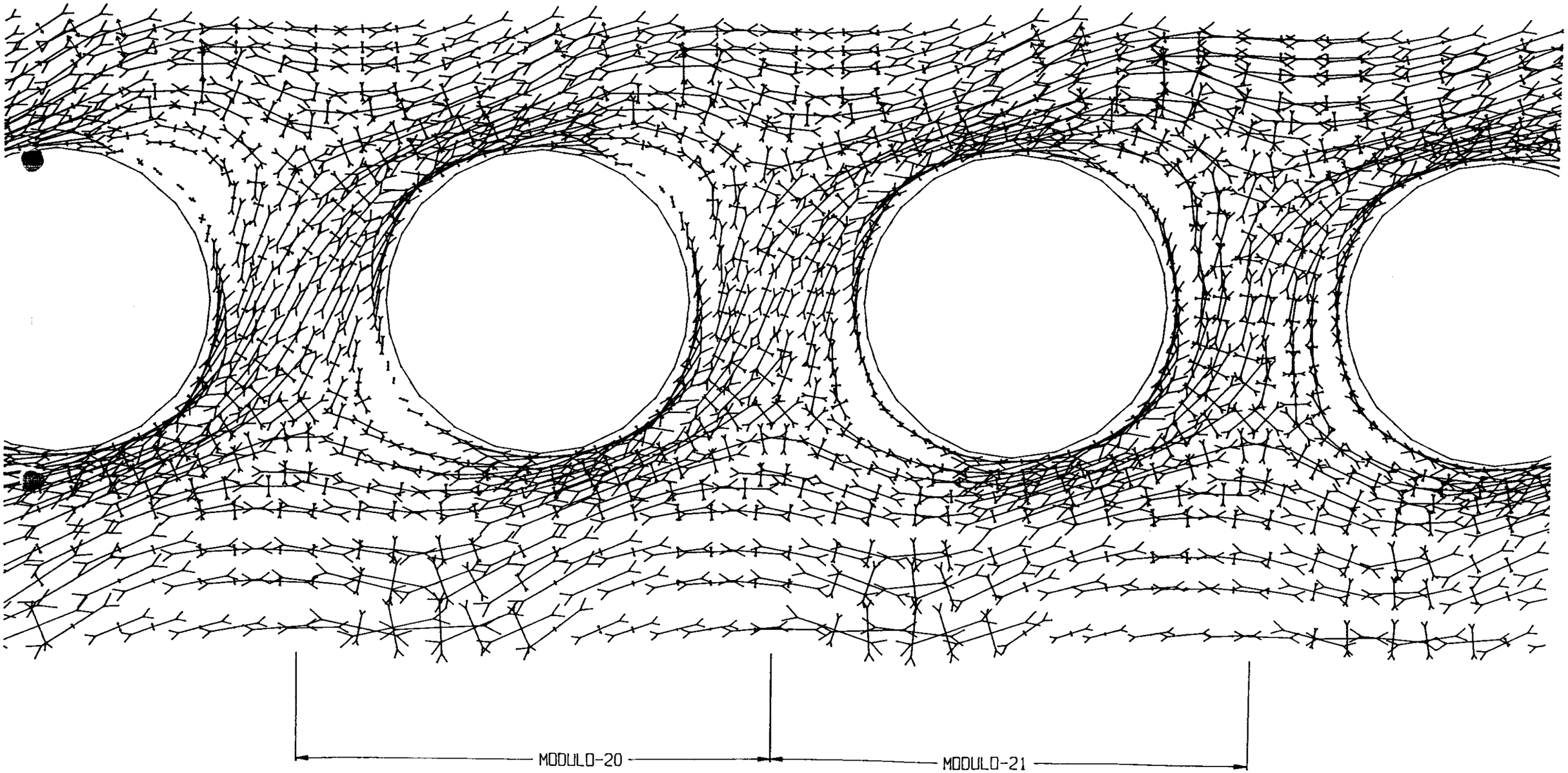
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plano de almas (Tensiones en el plano medio)



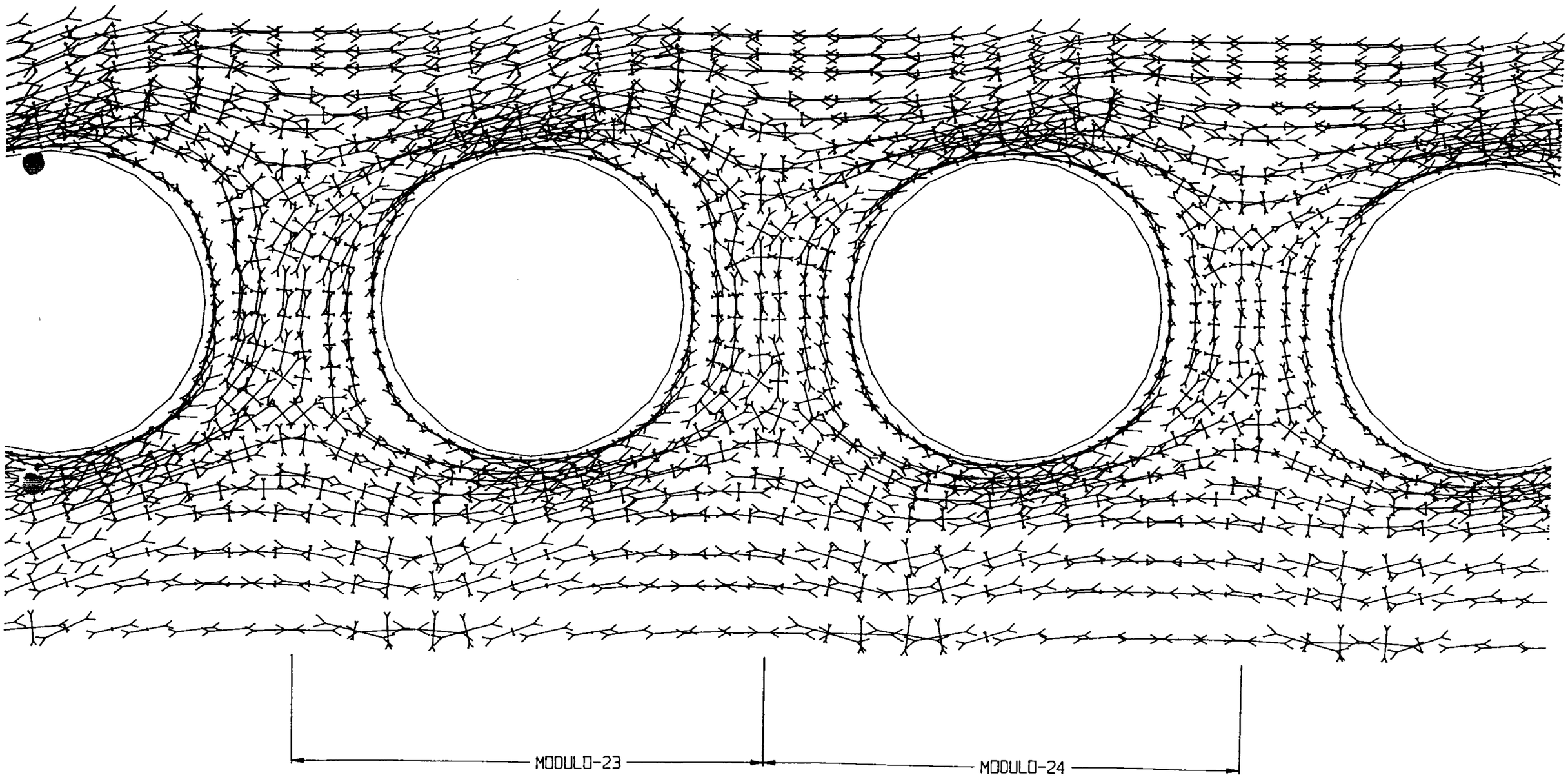
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plano de almas (Tensiones en el plano medio)



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plano de almas (Tensiones en el plano medio)

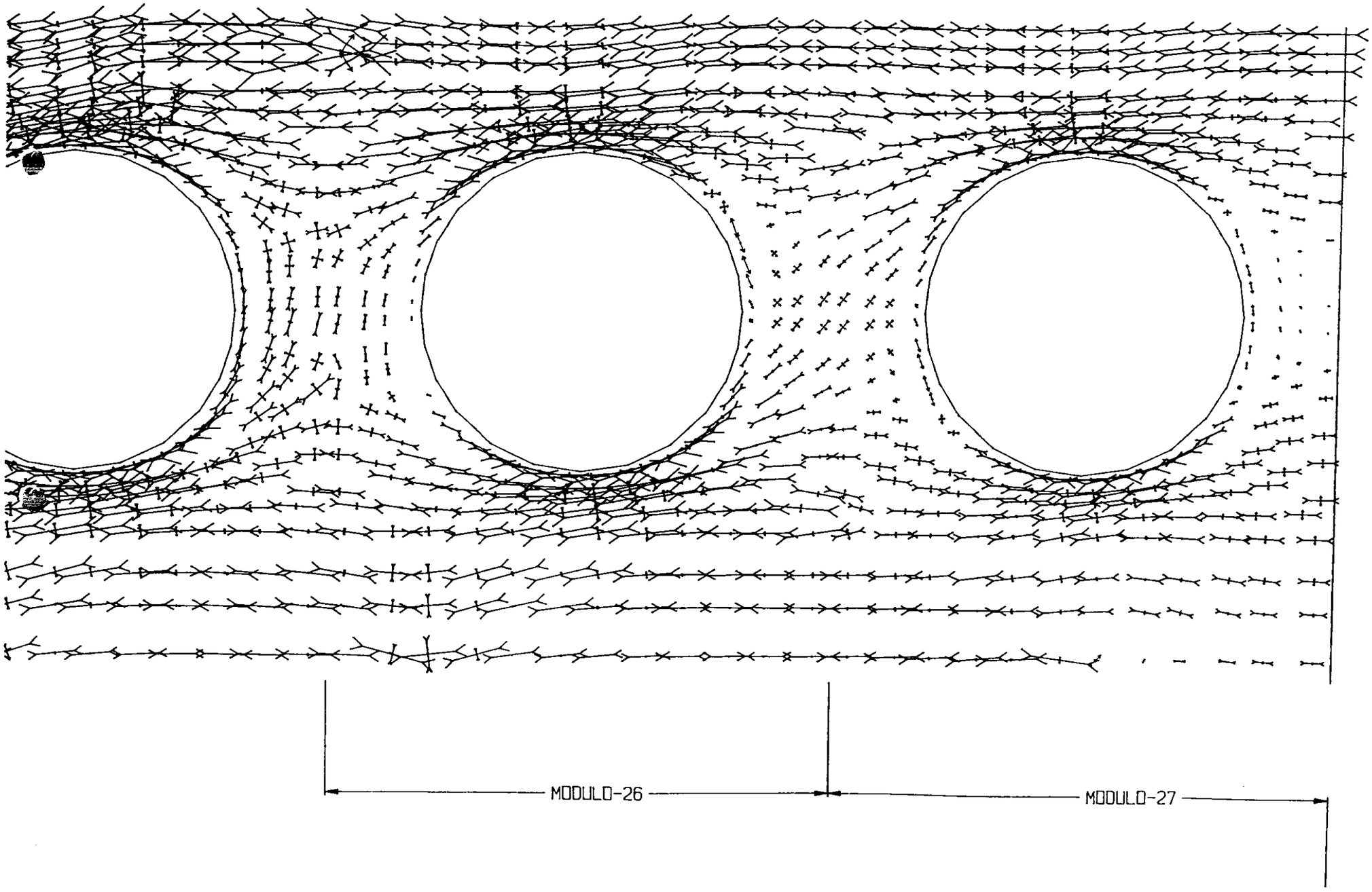


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plano de almas (Tensiones en el plano medio)



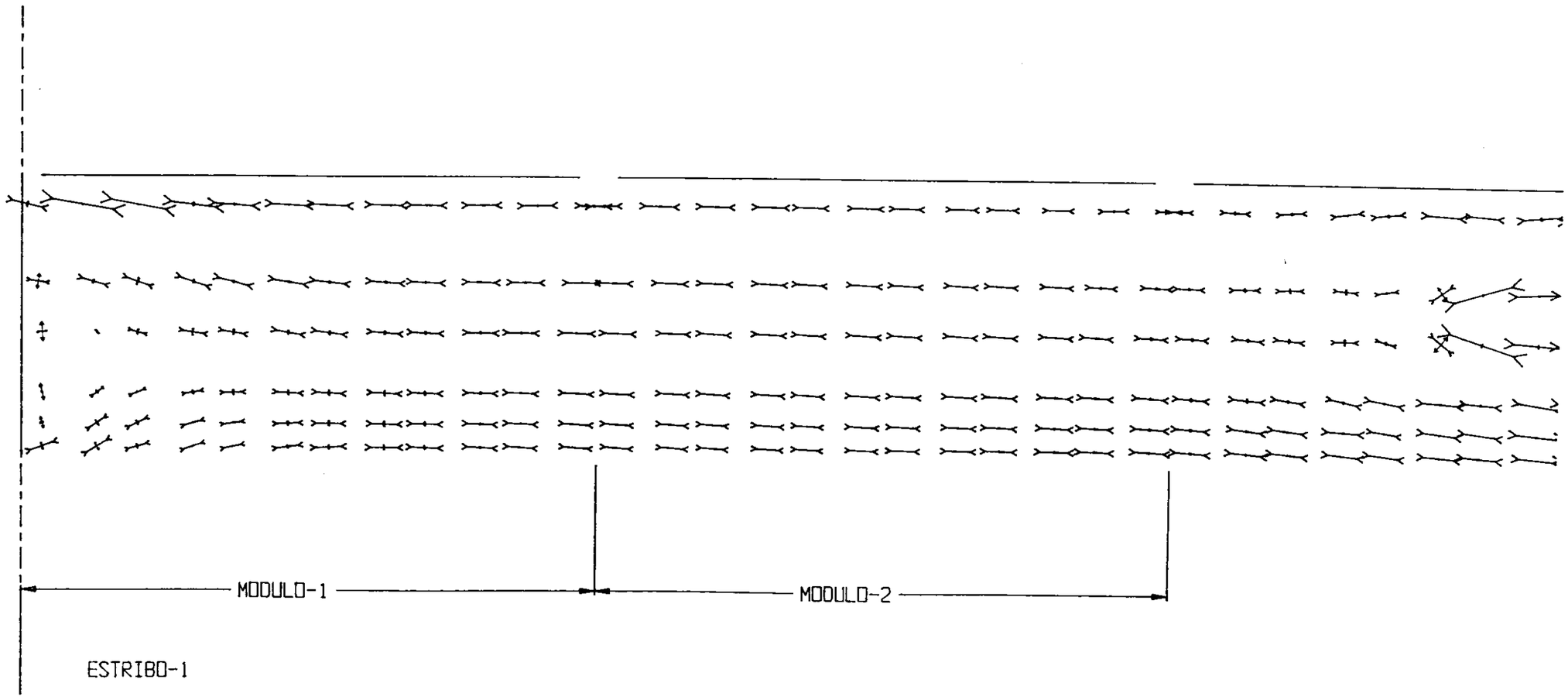
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plano de almas (Tensiones en el plano medio)

⟷ 2000.

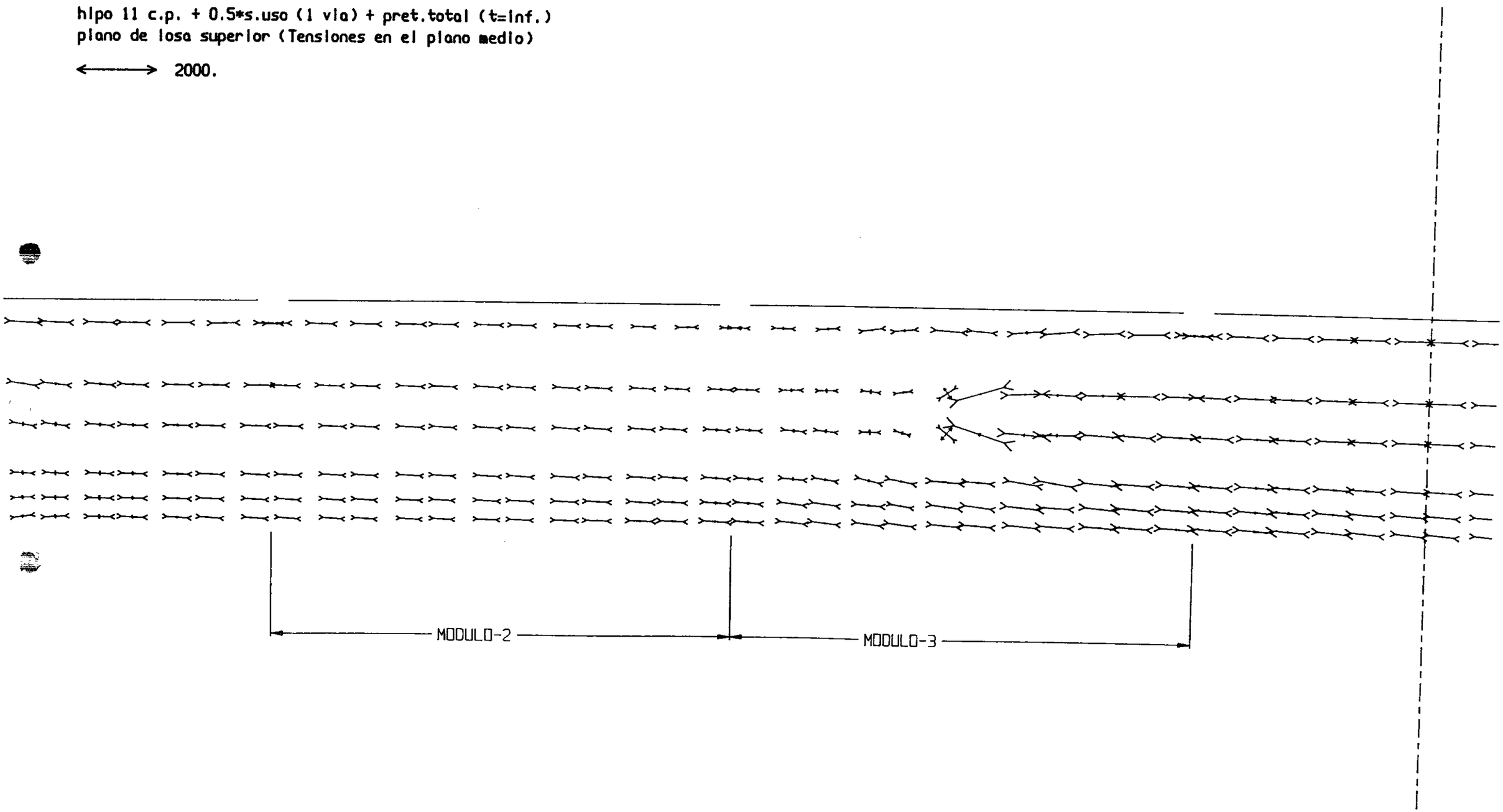


LOSA SUPERIOR

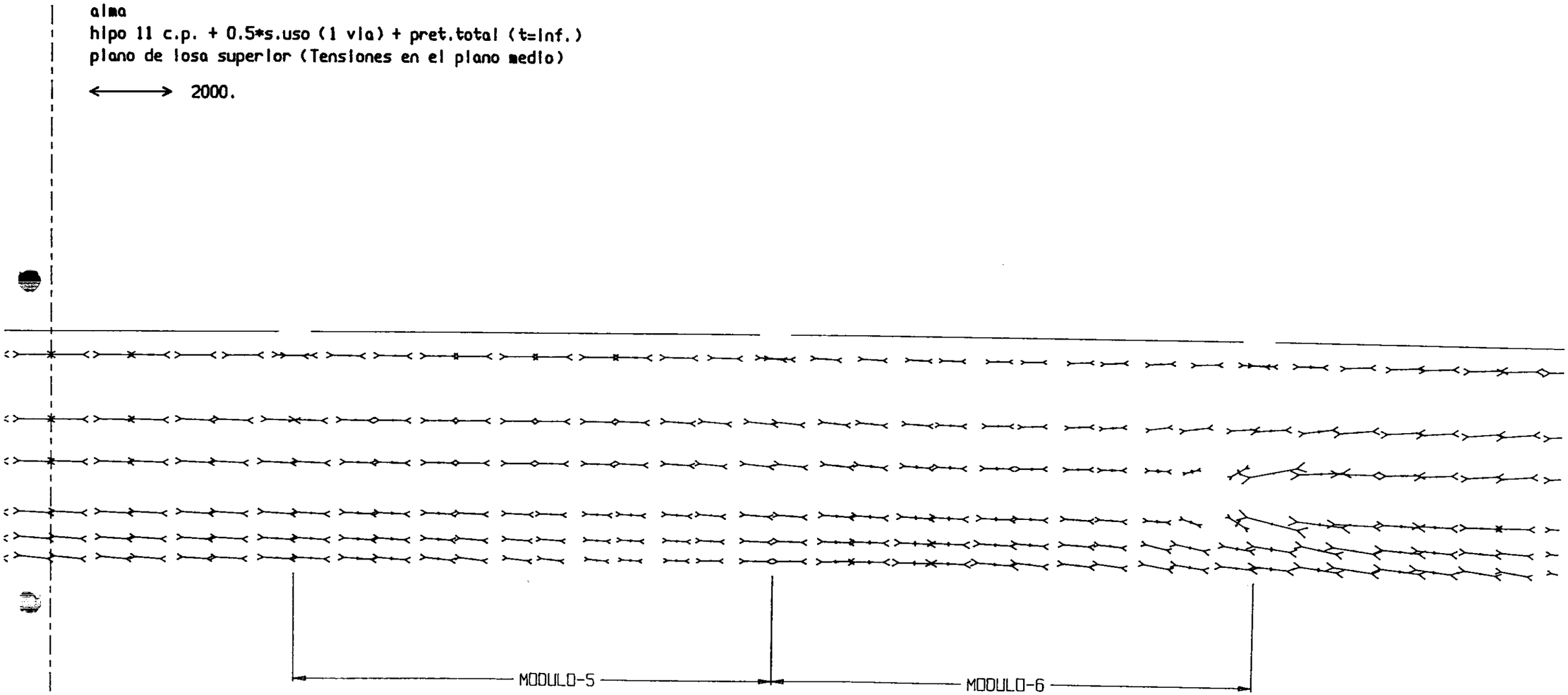
alma
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plano de losa superior (Tensiones en el plano medio)



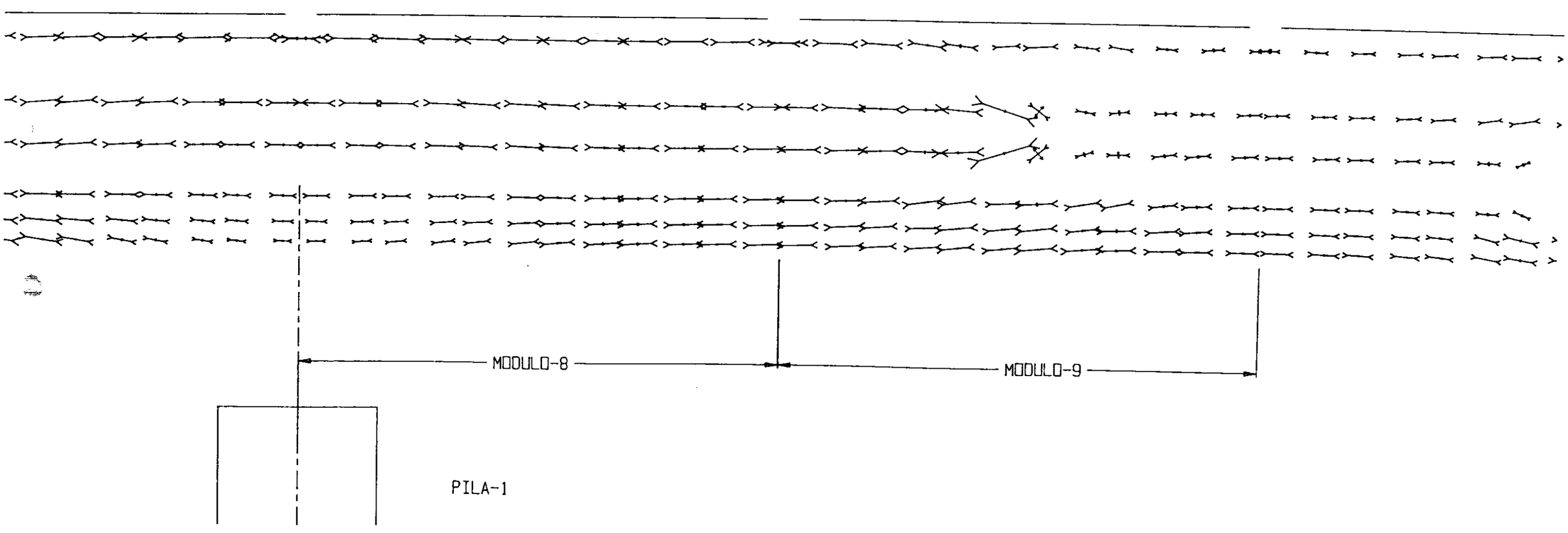
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plano de losa superior (Tensiones en el plano medio)



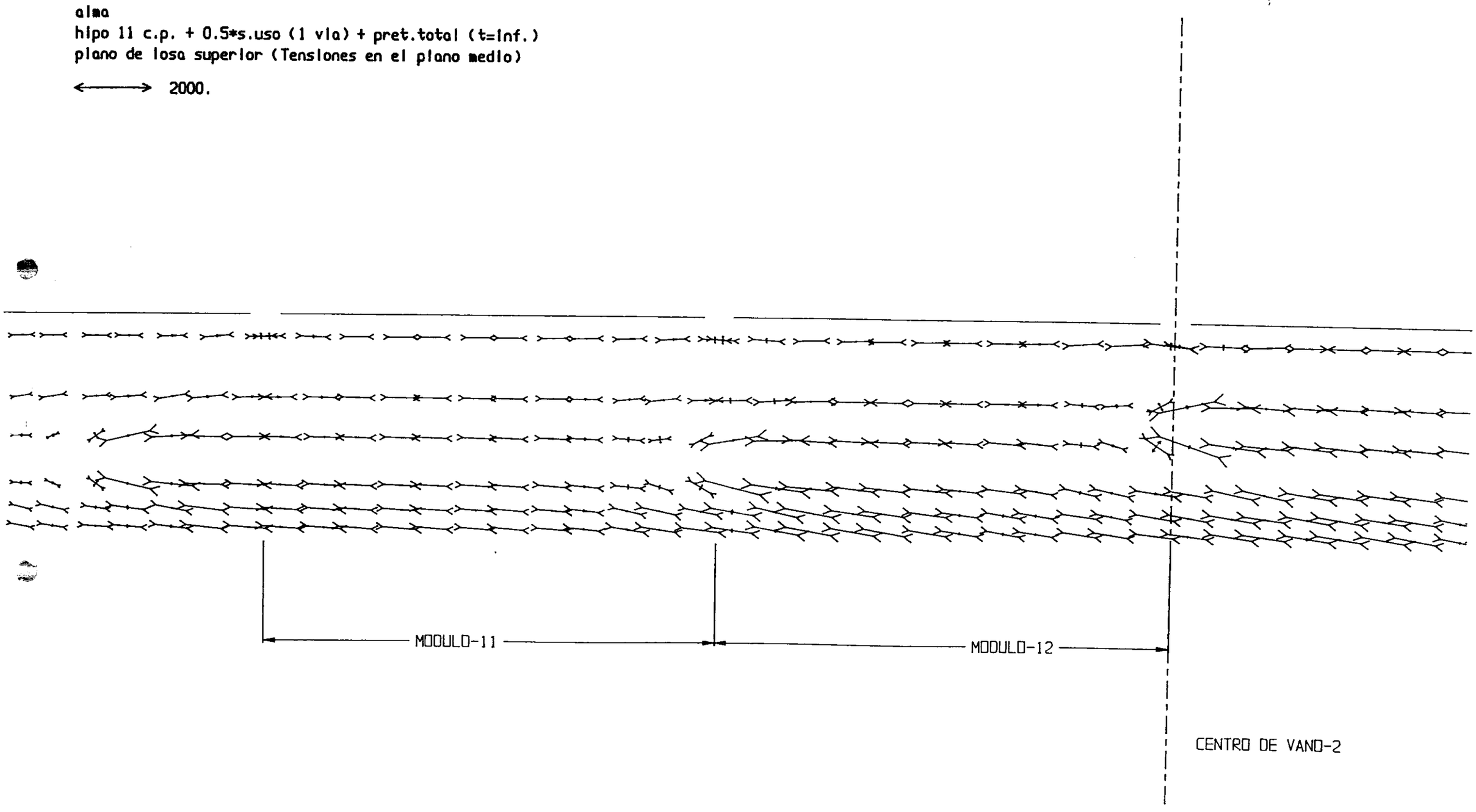
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plano de losa superior (Tensiones en el plano medio)



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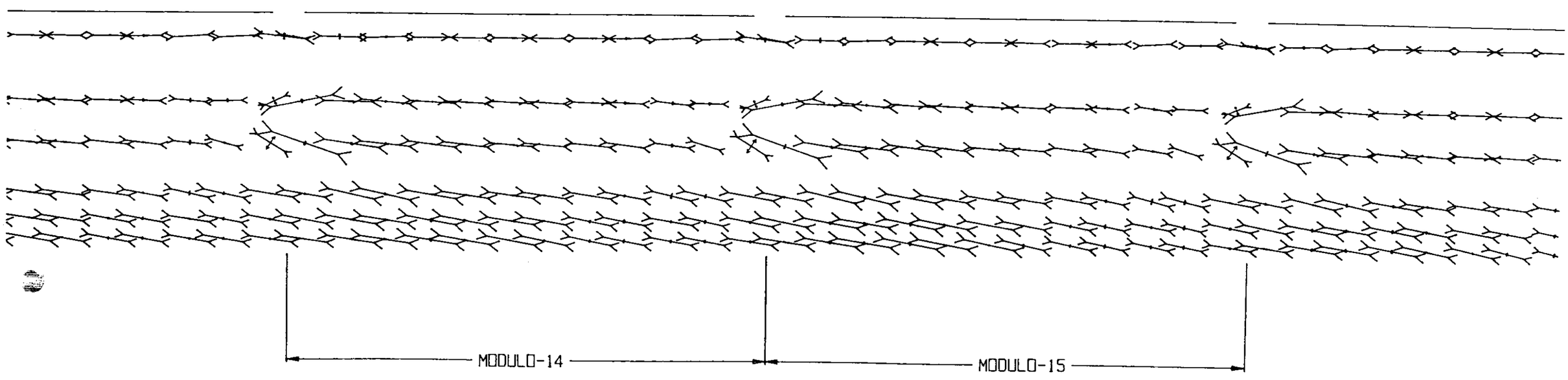


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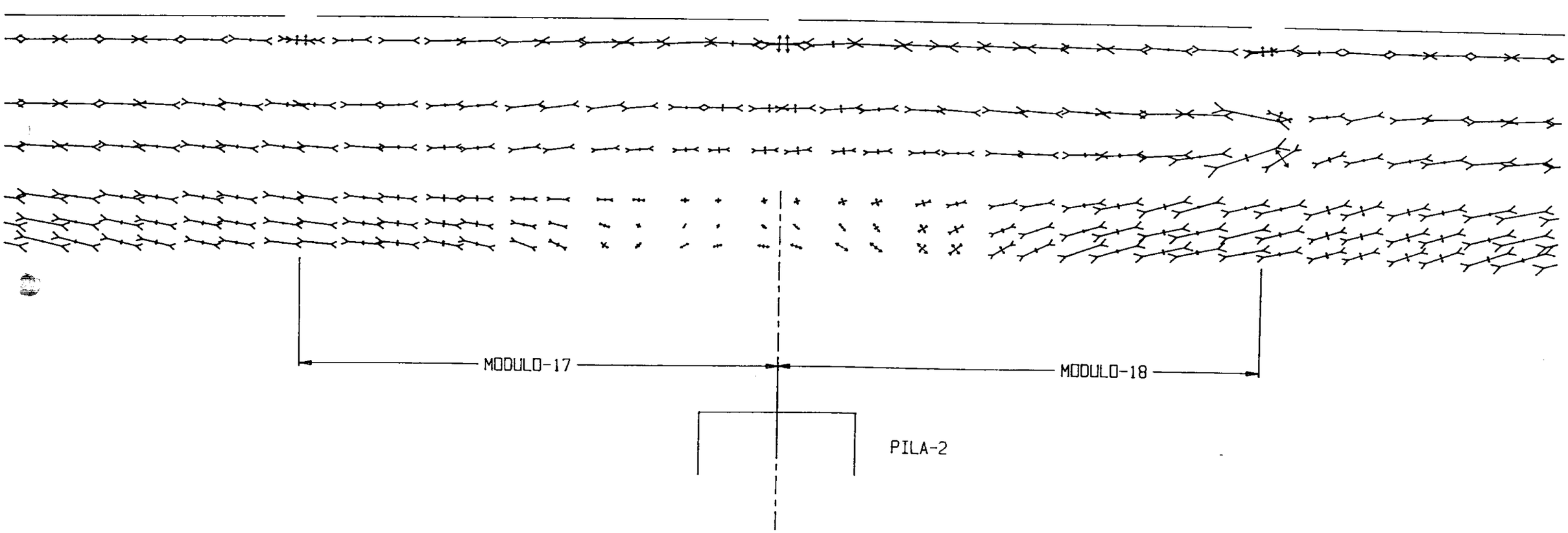


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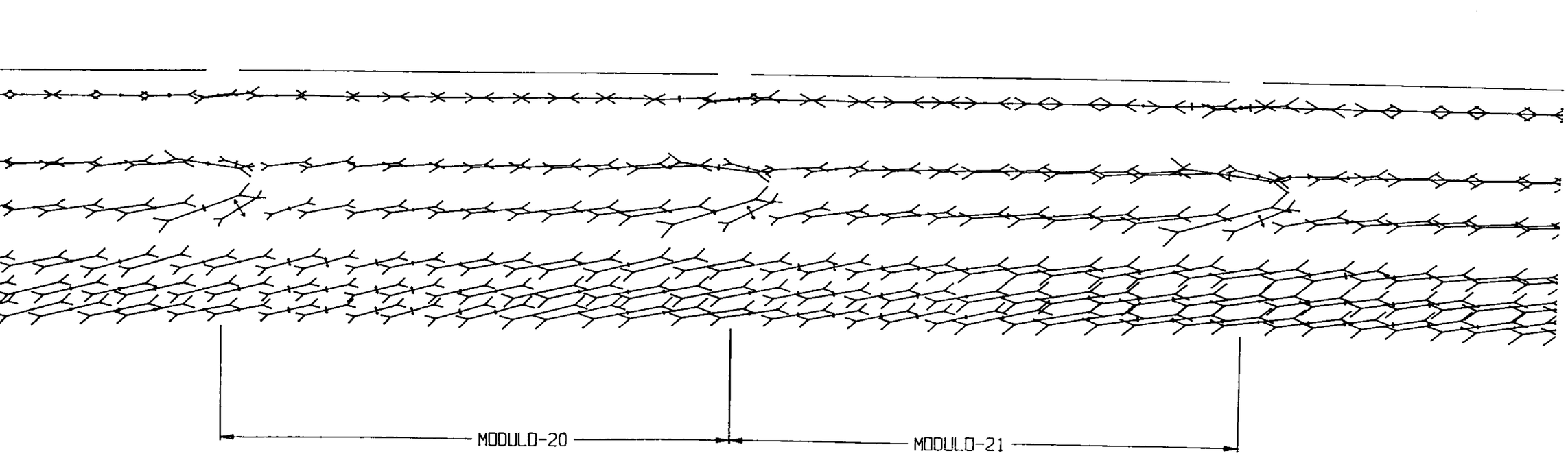

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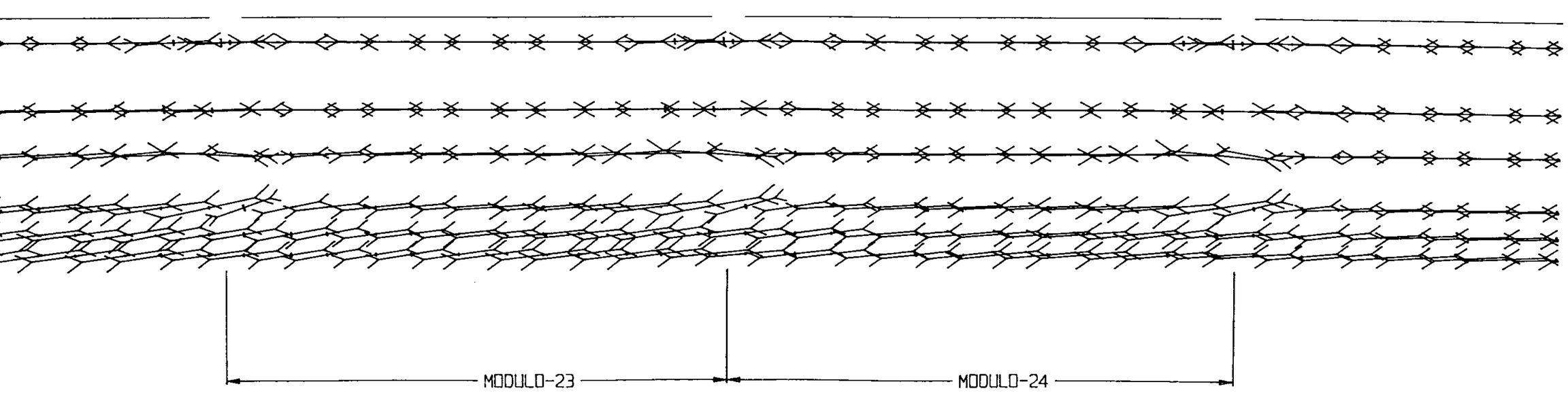
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plano de losa superior (Tensiones en el plano medio)



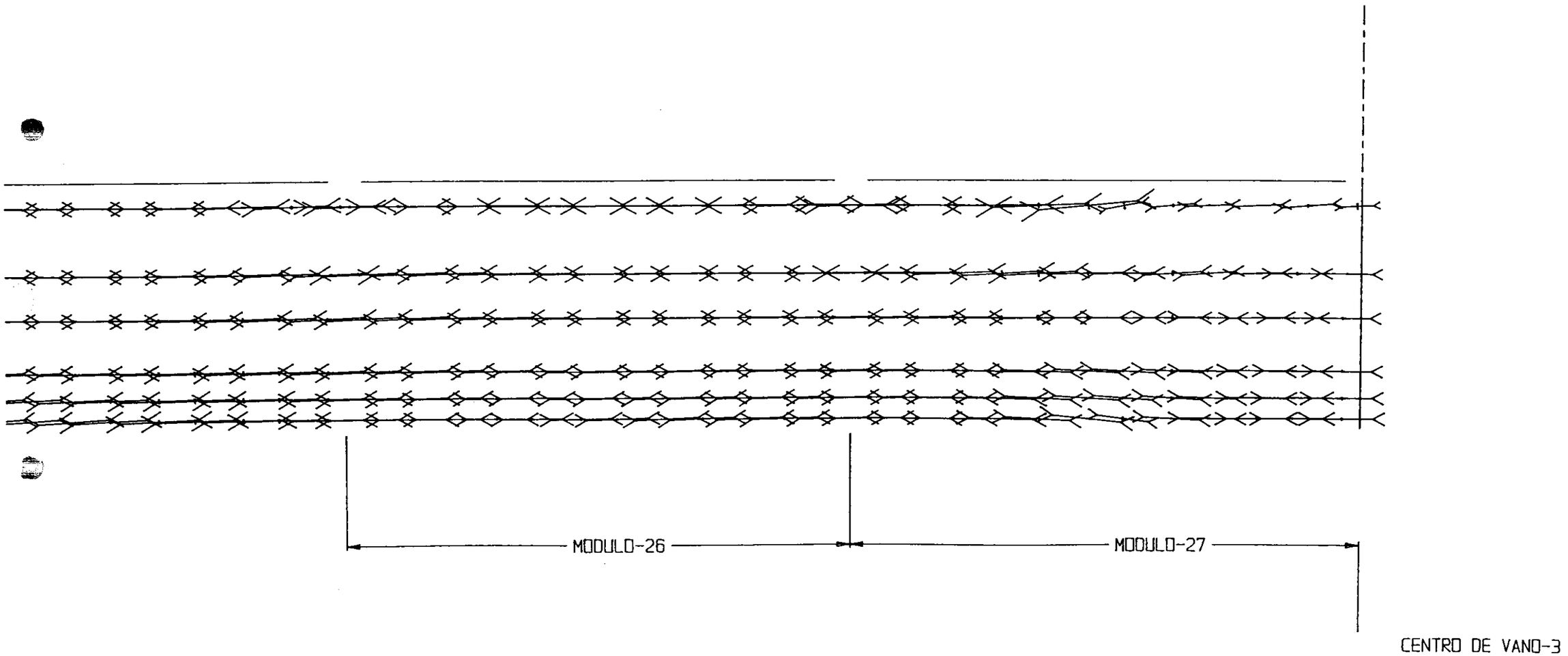
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plano de losa superior (Tensiones en el plano medio)



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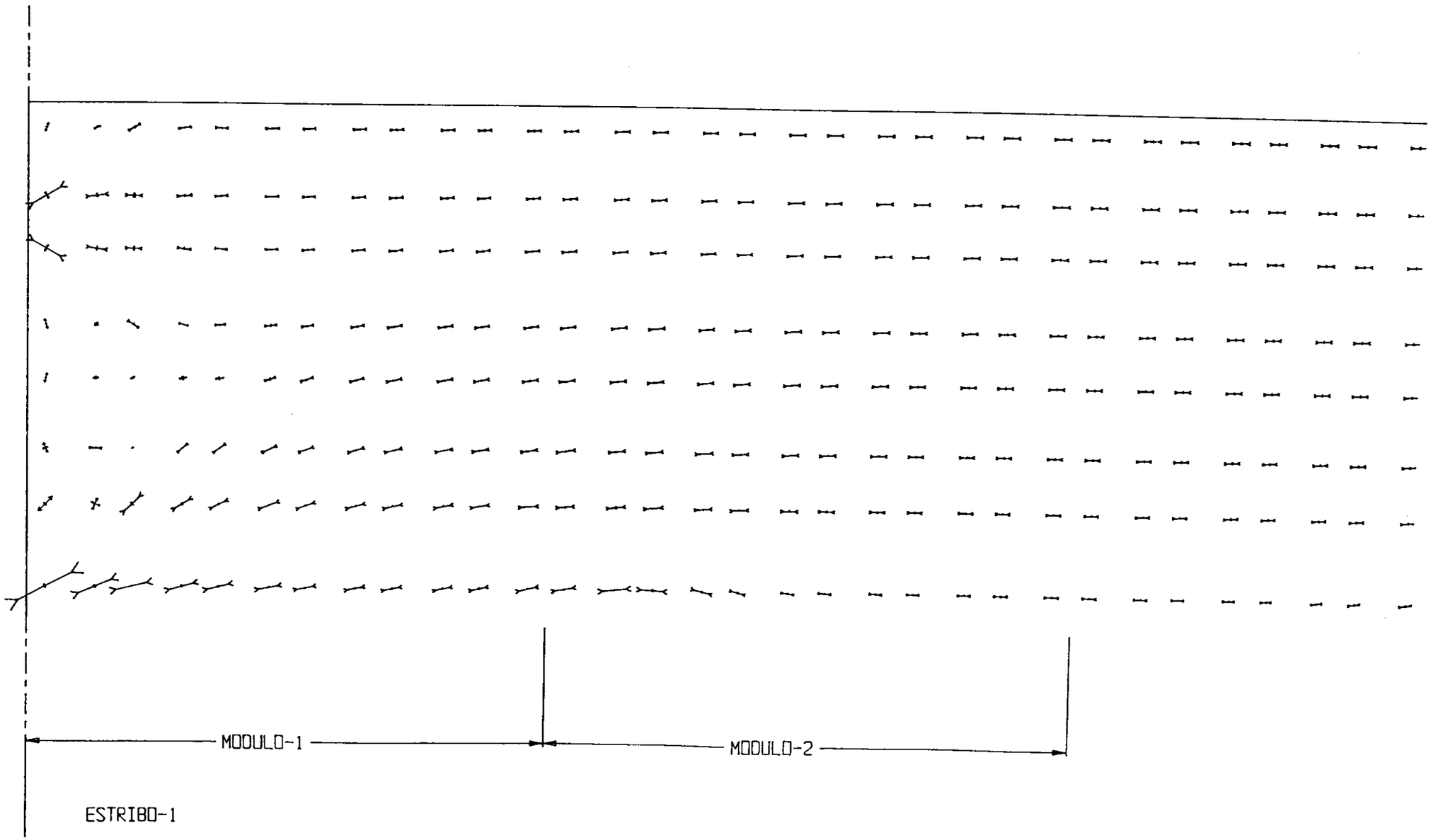


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plano de losa superior (Tensiones en el plano medio)

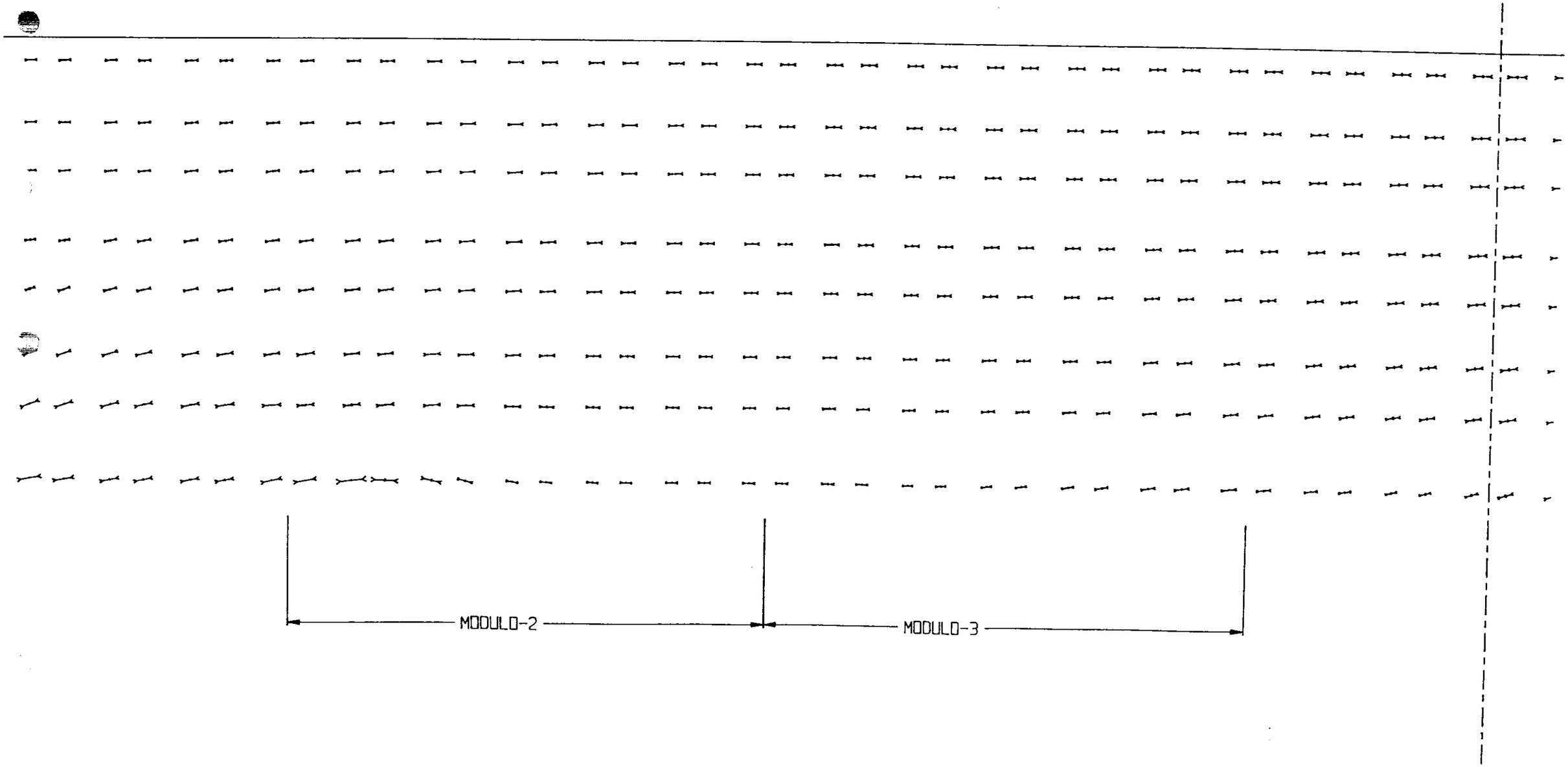


LOSA INFERIOR

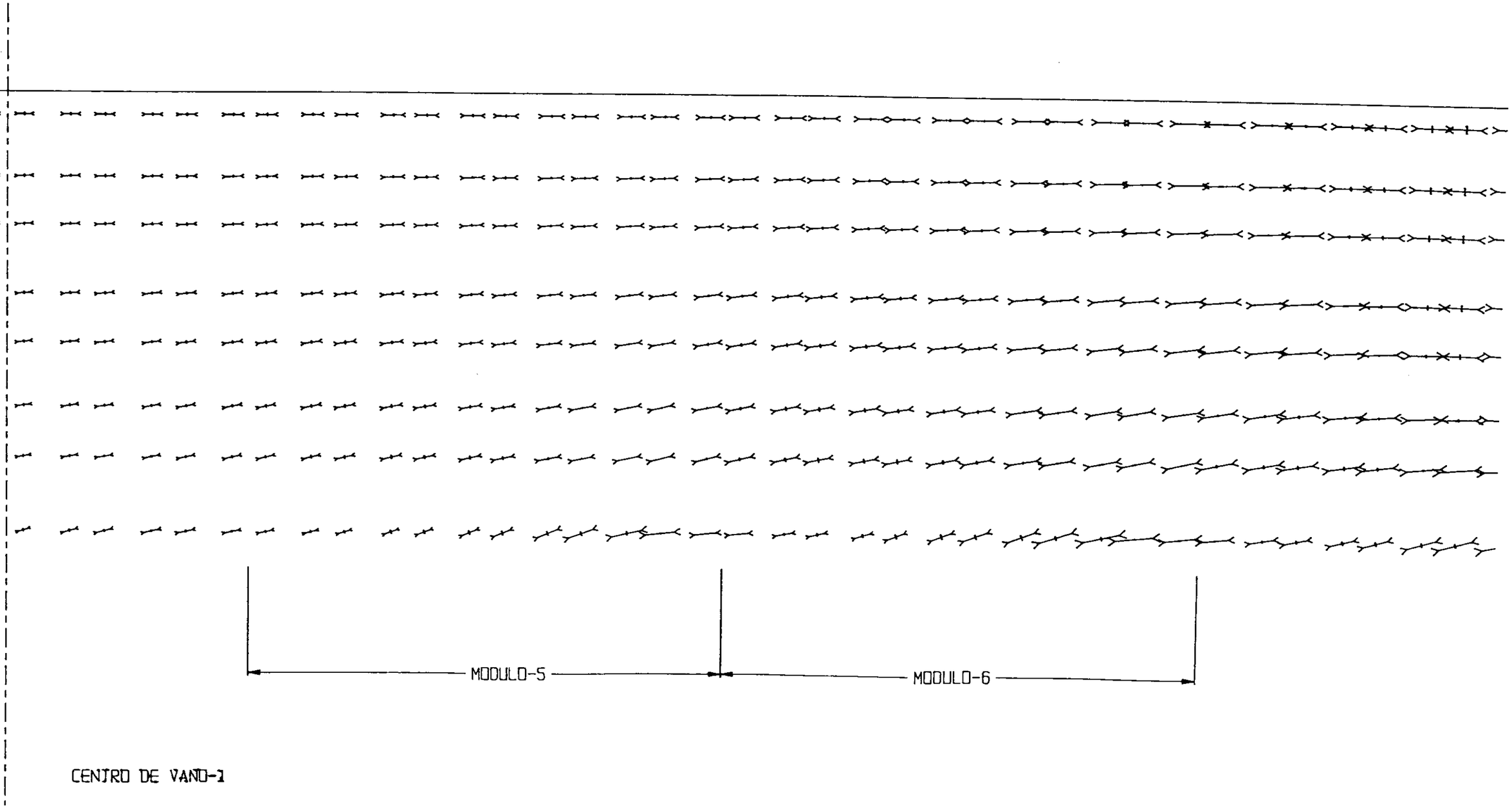
alma
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losa inferior (Tensiones en el plano medio)



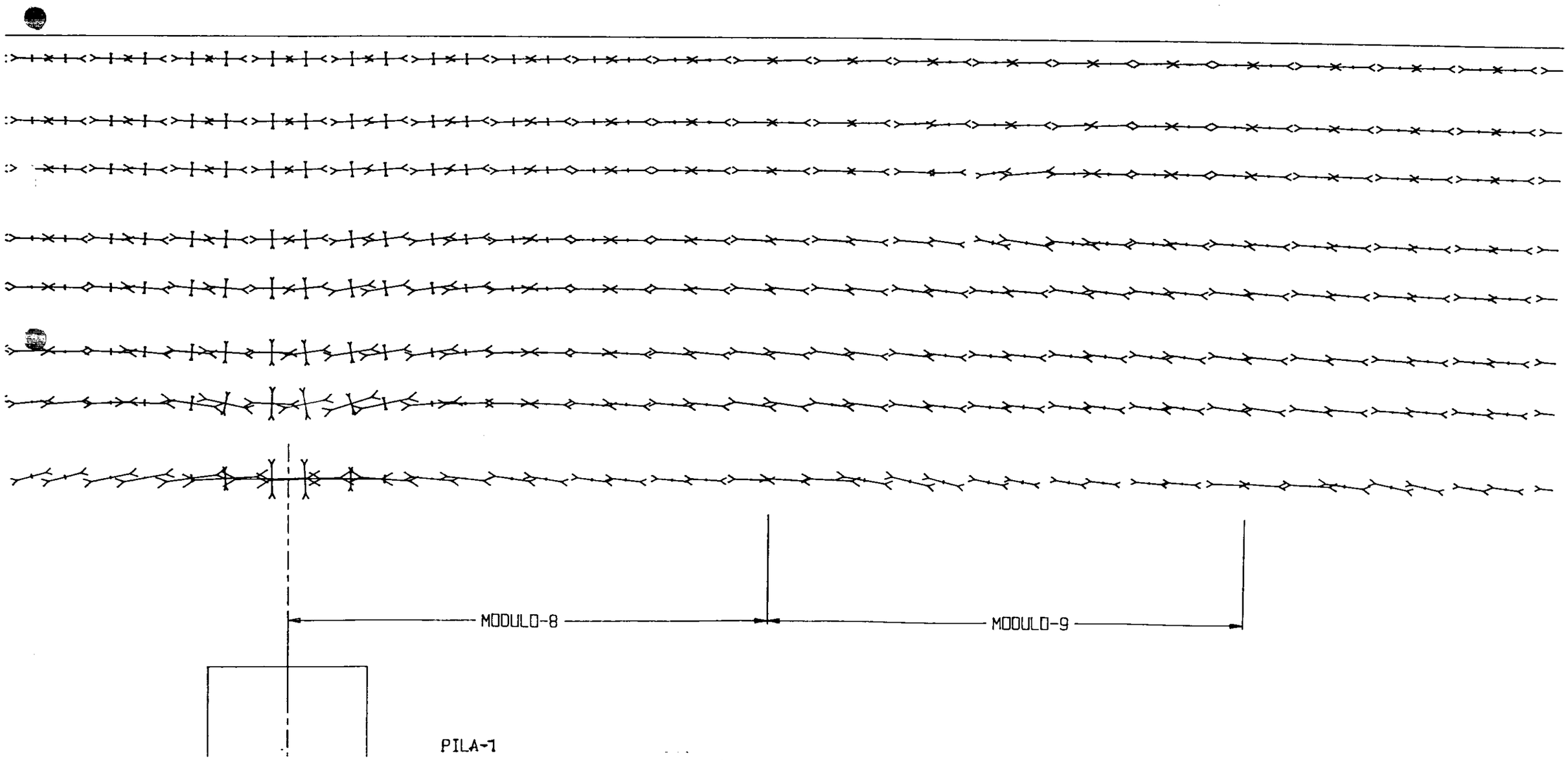
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losa inferior (Tensiones en el plano medio)



alma
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losa inferior (Tensiones en el plano medio)

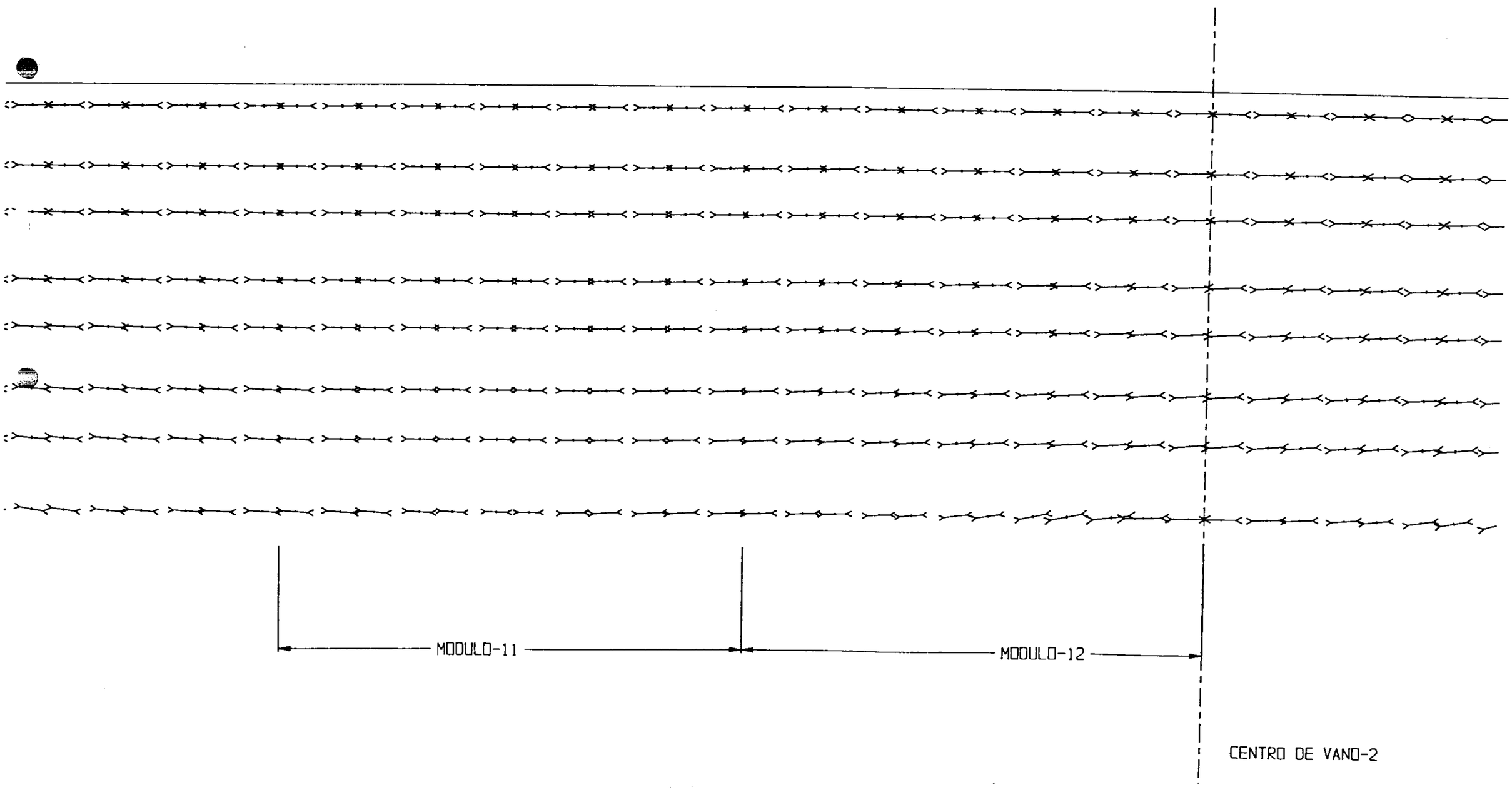


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losa inferior (Tensiones en el plano medio)

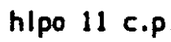


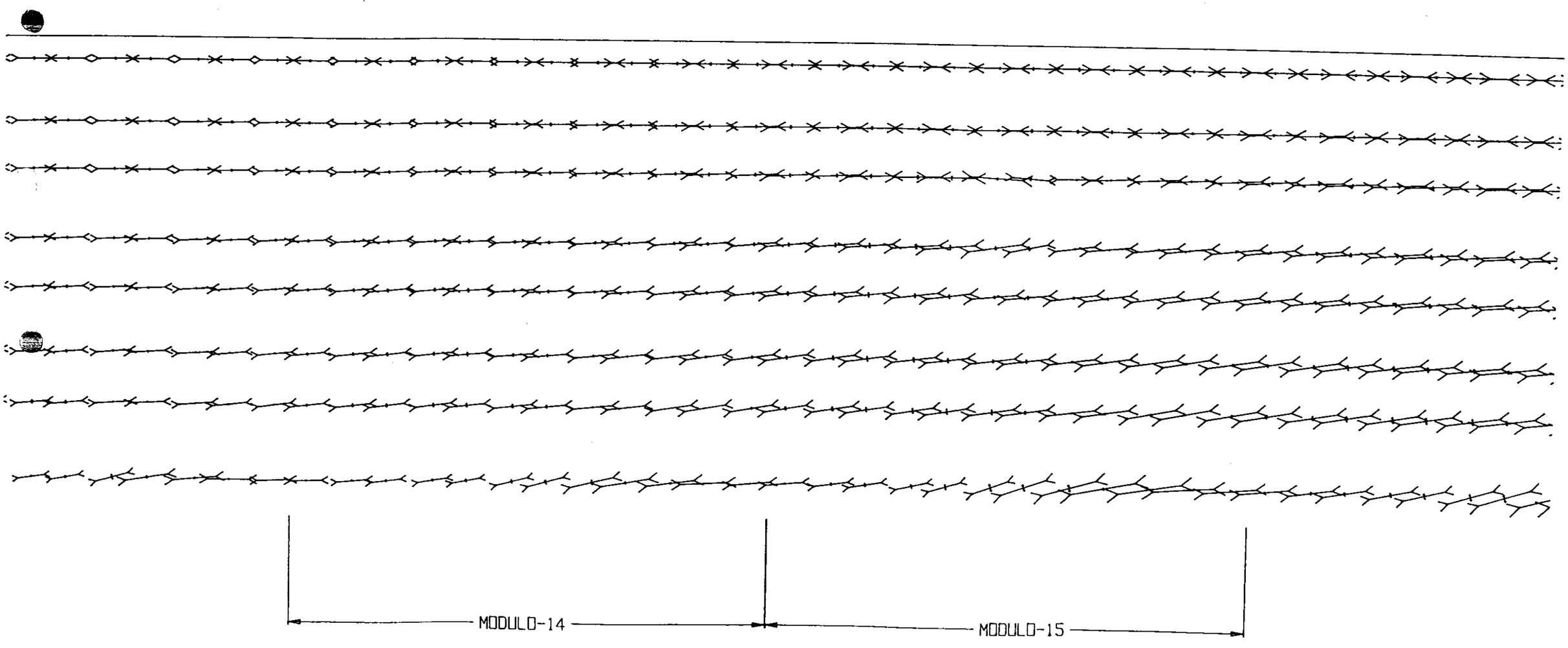
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losa inferior (Tensiones en el plano medio)

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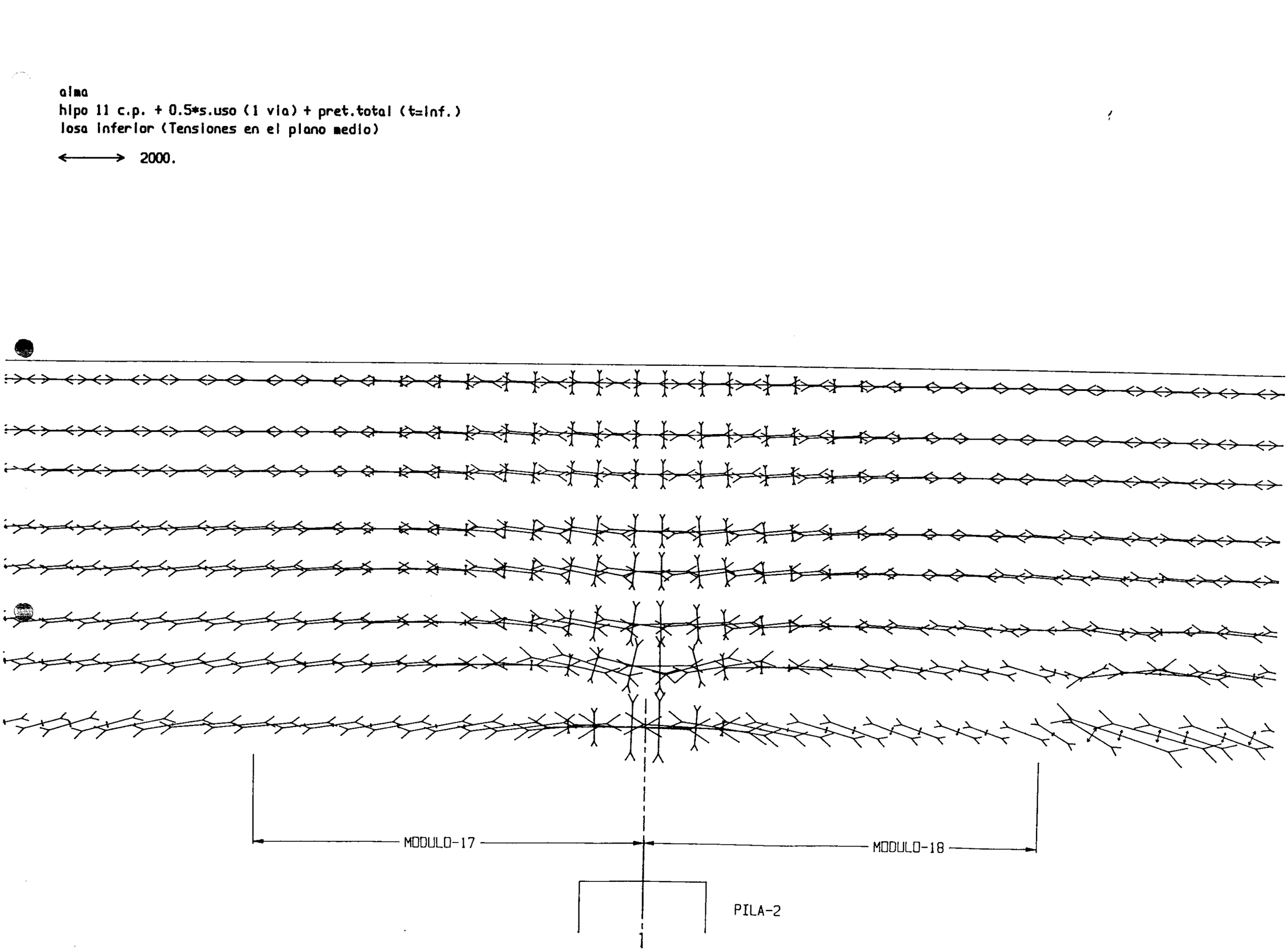


alma
hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
losa inferior (Tensiones en el plano medio)



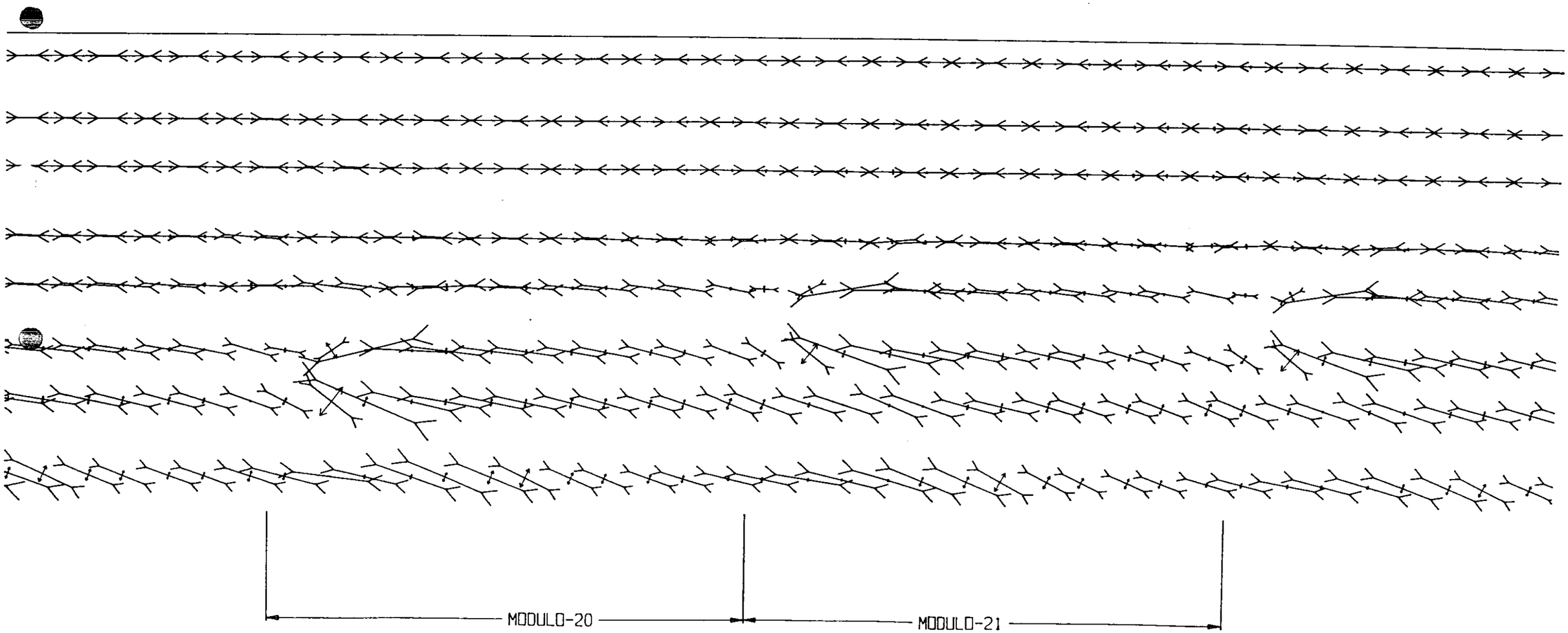


alma
hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
losa inferior (Tensiones en el plano medio)



alma
hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
losa inferior (Tensiones en el plano medio)

<---------> 2000.

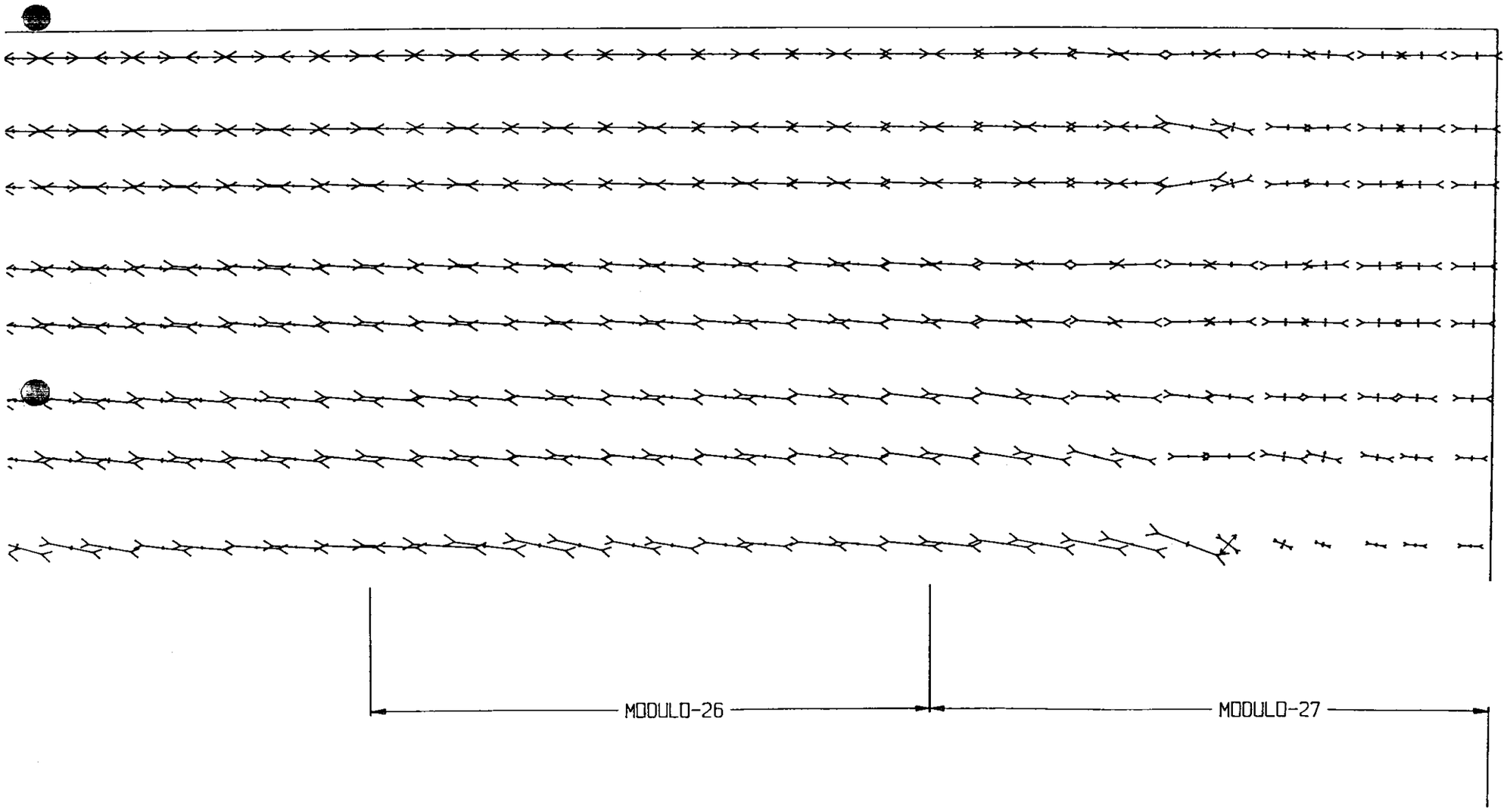


alma
hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
losa inferior (Tensiones en el plano medio)



alma
hipo 11 c.p. + 0.5*s.uso (1 via) + pret.total (t=inf.)
losa inferior (Tensiones en el plano medio)

⟷ 2000.

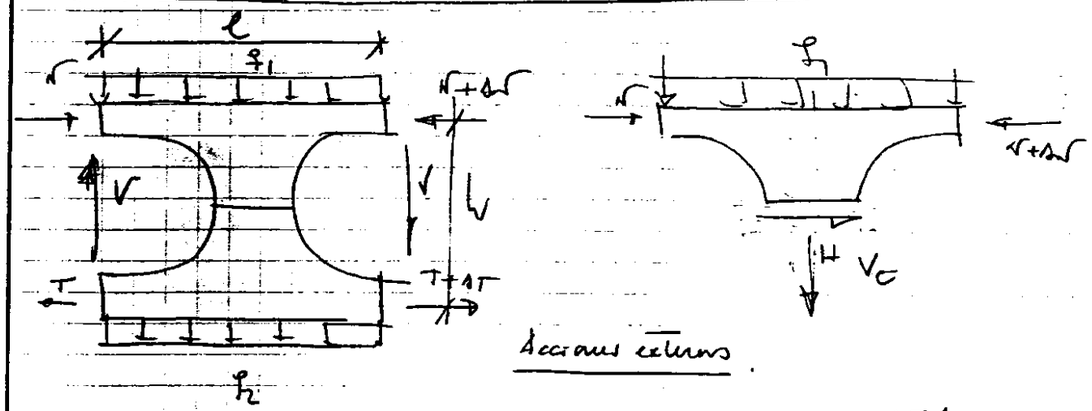


ARMADURA PASIVA

ARMADURA DE ALMAS

Estudio en proceso

CALCULO DE LA ARMADURA TRANSVERSAL EN PROCESO CONSTRUCTIVO



Acciones exteriores

- Deformación horizontal

$$H = \Delta N = \Delta\left(\frac{M}{h}\right) = \frac{V \cdot l}{h}$$

$$\frac{\Delta\eta}{l} = V$$

Para $l = 60\,m$ $\quad h = 8\,m \Rightarrow \quad H = 0.75\,V$

Calculo viguetas en proceso constructivo tipo

$V_{max} = 2100\,T$

$V_d = \frac{2100}{2} 1.5 = 1575\,T$

$H_d = 0.75\,V_d = 0.75 \cdot 1575 = 1181\,T \equiv U_s$

$U_s[T/m] = \frac{1181}{2.2} = 537\,T/m \rightarrow$ $\phi 8$ c/ 12 cm

- Se ha tenido en cuenta el cortante de calculo

$q_2 = 14.563\,T/m$ (2 ramas)

$U_s[T/m] = 1.50 \frac{14.563 \cdot 3}{2.2} \frac{1}{2} = 14.89\,T/m$

Peso propio de las losas inferiores

. Cabeza superior 2.2.4160.250.3 = 36,59 T

. Almas 2. 0.53 2,84 . 250 = 7.53 T

Total en 3_1 43,689 T

$q = \frac{43.689}{3} = 14.563\ T/l_3$

Estudio de la contribución del pretensado de cables

La capacidad de cuadros por forma un ángulo α, por una inclinación $\theta = 4°$

$V = U_1 (\sin\alpha + \cos\alpha)$

$\alpha = 180 - 53° = 127°$ $V_d = 0.20\ U_1$

. La capacidad resistente de los cables de pretensado a tracción a $f_{pd} \leq 4.2\ T/cm^2$

. Vds de $15\phi 0.6$" $U_{s1} = 4.2 \cdot 22.5 = 94.50\ T$

$19\phi 0.6$" $U_{s2} = 4.2 \cdot 28.5 = 119.70\ T$

$V_{d1} = 0.20 \cdot 94.50 = 18.90\ T$ $V_{d2} = 0.20 \cdot 119.70 = 23.94\ T$

La contribución de los cables de pretensado es muy pequeña

- Proceso Constructivo

- Sección 2.2 (Vano 3)

$V_{ext_d} = 1181\ T$ $H_{ext} = 537$

$N_p = 5 \cdot 278 = 1390\ T$ $H_p = 834\ T$

$H_{TOTAL} = \frac{537 + 834}{2.2} = 623,18 \rightarrow A_s = 148,37\ cm^2/h$

- Sección 2.3. (Vano 2)

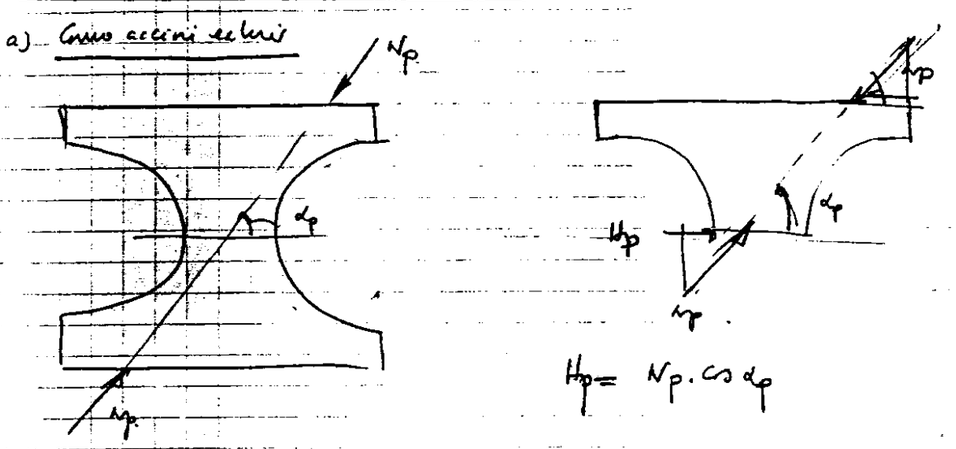
$V_{ext_d} = 6av$ $H_{ext} = 450\ T$

$N_p = 2 \cdot 278 = 556$ $H_p = 334\ T$

$H_{TOTAL} = \frac{450 + 334}{2.2} = 356,4\ T/h \rightarrow A_s = 85\ cm^2/h$

CONTRIBUCIÓN DEL PRETENSADO DE VIGAS

a) Caso acción exterior



$H_p = N_p \cdot \cos \alpha_p$

$\alpha_p = 53°$ $H_p = N_p \cdot \cos 53 = 0.60\ N_p$

Se lleva a la contribución como acción exterior.

Vds 15Φ0.6" $T_0 = 0.98 \cdot 284 = 278\ T$ $T_\infty = 0.90 \cdot 278 = 250\ T$

Vds 19Φ0.6" $T_0 = 0.98 \cdot 38 = 352\ T$ $T_\infty = 0.90 \cdot 352 = 317\ T$

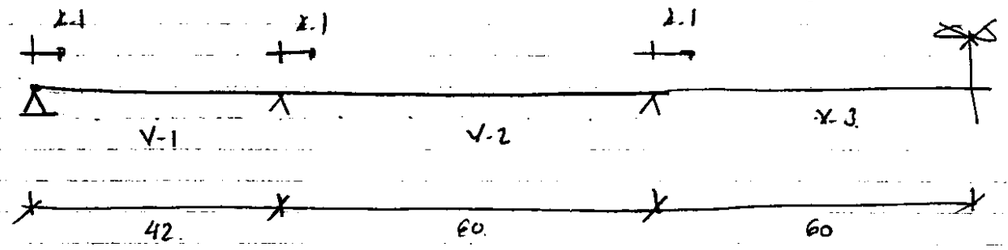
b) Caso cimentación

$H_s = A_{sd} \cdot P_{cd} (\sin\alpha + \cos\alpha)$ $P_{cd} \leq 5.2\ T/cm^2$

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

ESTRIBOS CALCULADOS MAYORADOS EN LAS ALMAS (DE LA ENVOLVENTE (PROCESO) DE BARRAS)



VANO	ALMA	(T) $V_{d_{ect}}$	H_{ect}	n	U_p	(vds 19ϕ0.6) U_s(T/m)	f_{yd}=4.2 A_s(cm²/m)
3	1	1688	1266	-	-	575	141 -
	2	1575	1181.3.	4	84	936	223 -
	3	1350	1013.	4	84	860.	205
	4	1200	900.	4	84	808	193
	5	900	675	3	634	610	145
	6	750	563.	3	634	559.	133
	7	825	619.	3	634	584	139.
	8	825	619	2	422	488	116.
	9	750	563.	2	422	463	111
	10	720	540	-	-	261	62
	11	675	507	-	-	246	59.
2	1	750	563.	-	-	271	65
	2	675	507	2	422	438	104
	3	600	450	2	422	411	98
	4	638	479	-	-	233	56
	5	638	479	-	-	233.	56
	6	563	423.	2	422	4ww.	95

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OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

VANO	ALMA	(T) $V_{d_{ect}}$	H_{ect}	n	U_p	(19ϕ06') U_s(T/m)	A_s(cm²/m)
2	7	825	169	2	422	284	68.
	8	975	732	3	634	634	151
	9	1050	788.	3	634	661	158
	10	1013.	760.	4	845	745	178
1	1	300	225	-	-	117	28
	2	300	225	2	422	310	74
	3	375	282	-	-	143	34
	4	450	338	-	-	169	41
	5	825	619.	-	-	296	71
	6	825	619	2	422	488	116.
	7	900	675	2	422	514	123.

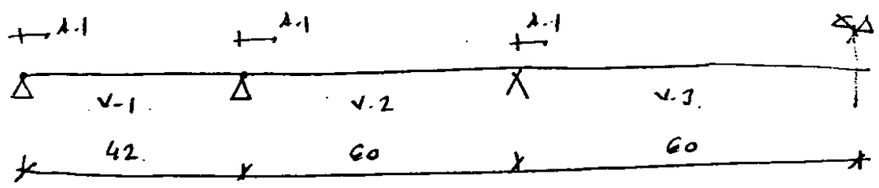
$$U_s(T/m) = \frac{V_{ect} + U_p}{2.2} + U_s(\text{cercha})$$

U_s(cercha) = 15 T/m

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

ARMADURA DE CORTANTE EN PROCESO SIN PRETENSADO DE ALMAS.



VANO	ALMA	$V_{d,ect}^{+}$	$V_{d,ect}^{-}$	H_{ect} (rea)	A_s (T/m)	A_s (cm²/m)
3	⊥	1670	1688	1266	537	141
	2	1500	1537	1182	538	128
	3	1350	1350	1013.	461	110
	4	1127 (1500)	1200	900 (1127)	410 (511)	98. (122)
	5	937 (1500)	900	732 (1127)	333	80. (122)
	6	750	750	563.	256	61
	7	638	827	619.	281	67
	8	488	827	619.	281	67
	9	227	750	563.	256	61
	10	113	720	540	247	59.
	11	0.	677	507	231	55
2	⊥	677	600 (1050)	507 (844)	231 (384)	55 (91)
	2	527	600 (1147)	384 (844)	179 (384)	43. (91)
	3	488	563. (1147)	423. (844)	192 (384)	46 (91)
	4	563	638 (1427)	478 (1069)	218 (486)	52 (116)
	5	600	527 (1612)	450 (1207)	206 (550)	49. (131)
	6	788	377 (1247)	591 (1194)	269 (588)	64. (140)

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

VANO	ALMA	$V_{d,ect}^{+}$	$V_{d,ind}^{-}$	H_{ect}	A_s (T/m)	A_s (cm²/m)
2	7	938	150 (1763)	704 (1322)	320 (601)	76 (143)
	8	1088	900 (1890)	816 (1380)	371 627	88 149
	9	1277	1013. (1877)	956 (1406)	435 638	104 152
	10	1463	1013. (1650)	1097 (1238)	499. 562	119. 134
⊥	⊥	527	150	394	179.	43.
	2	527	300	394	179	43.
	3	527	377	394	179	43.
	4	488	450	366.	166.4	40.
	5	563.	827	619.	282	67.
	6	527 (1147)	827	619.	282	67
	7	527 (1127)	863.	648	294	70.
				544.	393	9

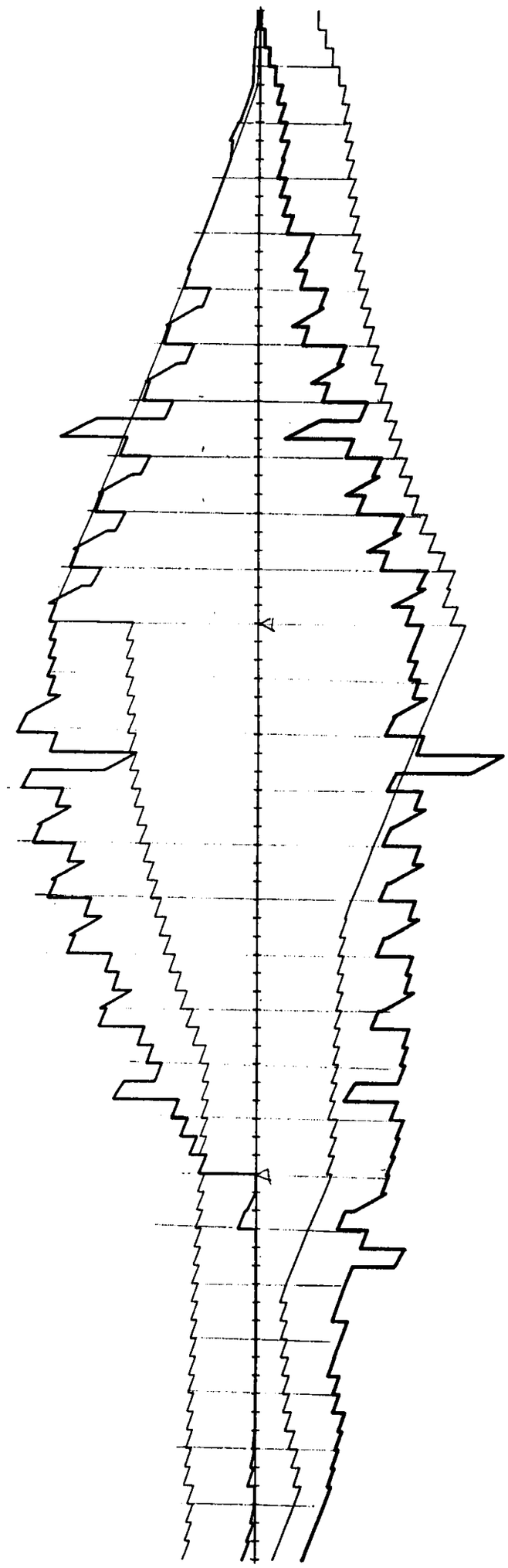
OBSERVACIONES

$V_{d,ect}^{+}$ → Cortante de proceso del mismo signo ya en servicio

$V_{d,ect}^{-}$ → " " " de signo contrario ya en servicio

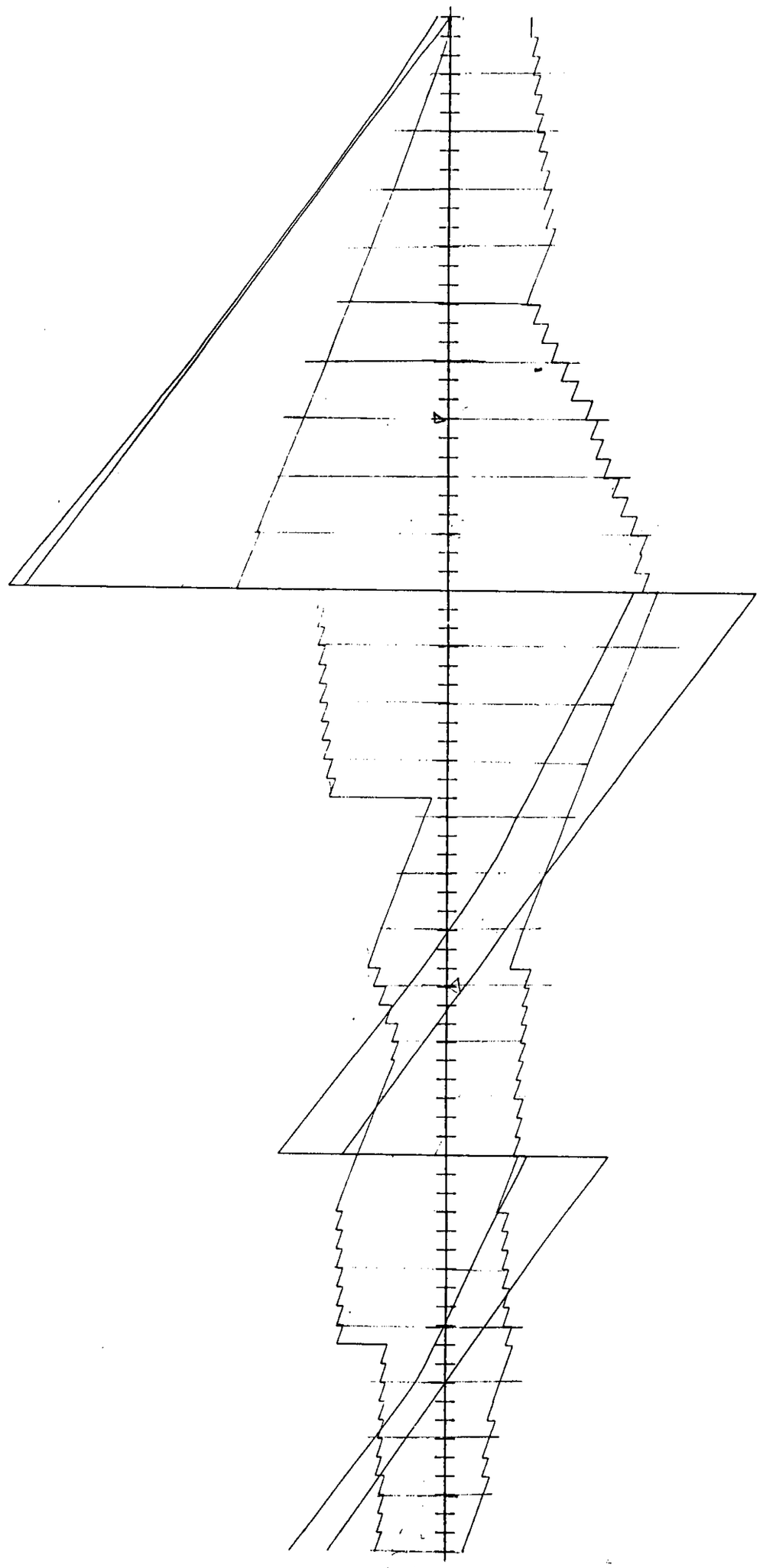
Los valores entre ( ) corresponden a cortante incluyendo

procr Puente sobre el Ebro - Proceso de Construccion -
Cortantes Y Max. -sin pret.- (Envolv. de Proceso) F. Y 500.0
Cortantes Y Min. -sin pret.- (Envolv. de Proceso) F. Y 500.0
Cortantes Y Max. -con pret.- (Envolv. de Proceso) F. Y 500.0
Cortantes Y Min. -con pret.- (Envolv. de Proceso) F. Y 500.0



proc Puente sobre el Ebro (L.A.V. Zaragoza-LLeida)
Cortantes Y Max. Tot. (T=Indef.) (sin Pret.)
[illegible]
hipo 279 C.P. (sin P.P. de pilas)+Tren B (2 vias)
Cortantes Y Max. (Envolv. de Proceso)
Cortantes Y Min. (Envolv. de Proceso)

F. Y 500.0
[illegible]
F. Y 500.0



procr Puente sobre el Ebro - Proceso de Construccion -

HIPOTESIS 123

Cortantes Y Max. -sin pret.-(Envolv. de Proceso)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
1	90	0.000	760.135	0.000	0.00	0.00	0.00
1	88	0.000	-685.155	0.000	0.00	0.00	1440.31
2	88	0.000	740.530	0.000	0.00	0.00	79.96
2	87	0.000	-665.230	0.000	0.00	0.00	1328.46
3	87	0.000	725.212	0.000	0.00	0.00	302.57
3	86	0.000	-650.972	0.000	0.00	0.00	1071.07
4	86	0.000	715.558	0.000	0.00	0.00	679.91
4	85	0.000	-645.558	0.000	0.00	0.00	681.21
5	85	0.000	752.683	0.000	0.00	0.00	2668.29
5	84	0.000	-682.683	0.000	0.00	0.00	-1232.93
6	84	0.000	739.446	0.000	0.00	0.00	2666.21
6	83	0.000	-669.446	0.000	0.00	0.00	-1257.32
7	83	0.000	728.951	0.000	0.00	0.00	2731.21
7	82	0.000	-658.951	0.000	0.00	0.00	-1343.31
8	82	0.000	721.263	0.000	0.00	0.00	2867.35
8	81	0.000	-651.263	0.000	0.00	0.00	-1494.83
9	81	0.000	716.209	0.000	0.00	0.00	3067.68
9	80	0.000	-646.209	0.000	0.00	0.00	-1705.26
10	80	0.000	708.889	0.000	0.00	0.00	3141.31
10	79	0.000	-638.889	0.000	0.00	0.00	-1793.53
11	79	0.000	700.023	0.000	0.00	0.00	3114.22
11	78	0.000	-630.023	0.000	0.00	0.00	-1784.17
12	78	0.000	1165.799	0.000	0.00	0.00	8464.60
12	77	0.000	-1095.799	0.000	0.00	0.00	-6203.00
13	77	0.000	1169.049	0.000	0.00	0.00	8490.80
13	76	0.000	-1099.049	0.000	0.00	0.00	-6222.69
14	76	0.000	1174.258	0.000	0.00	0.00	8592.40
14	75	0.000	-1104.258	0.000	0.00	0.00	-6313.89
15	75	0.000	1177.307	0.000	0.00	0.00	8555.90
15	74	0.000	-1107.307	0.000	0.00	0.00	-6271.29
16	74	0.000	1181.407	0.000	0.00	0.00	8547.51
16	73	0.000	-1107.167	0.000	0.00	0.00	-6256.39
17	73	0.000	1181.260	0.000	0.00	0.00	8512.33
17	72	0.000	-1102.590	0.000	0.00	0.00	-6229.43
18	72	0.000	1176.905	0.000	0.00	0.00	8478.75
18	71	0.000	-1100.165	0.000	0.00	0.00	-6201.68
19	71	0.000	1174.736	0.000	0.00	0.00	8446.42
19	70	0.000	-1089.696	0.000	0.00	0.00	-6182.01
20	70	0.000	1089.696	0.000	0.00	0.00	6181.99
20	69	0.000	-1008.806	0.000	0.00	0.00	-4085.57
21	69	0.000	1008.805	0.000	0.00	0.00	4085.57
21	67	0.000	-932.065	0.000	0.00	0.00	-2144.69
22	67	0.000	932.066	0.000	0.00	0.00	2144.69
22	65	0.000	-850.346	0.000	0.00	0.00	-367.26
23	65	0.000	850.346	0.000	0.00	0.00	367.26
23	64	0.000	-769.456	0.000	0.00	0.00	1254.61
24	64	0.000	769.456	0.000	0.00	0.00	-1254.61
24	63	0.000	-689.396	0.000	0.00	0.00	2711.47
25	63	0.000	689.396	0.000	0.00	0.00	-2711.47
25	62	0.000	-612.656	0.000	0.00	0.00	4013.52
26	62	0.000	612.655	0.000	0.00	0.00	-4013.52
26	61	0.000	-533.985	0.000	0.00	0.00	5161.13
27	61	0.000	574.109	0.000	0.00	0.00	2656.04
27	60	0.000	-499.869	0.000	0.00	0.00	-1584.61
28	60	0.000	574.823	0.000	0.00	0.00	2670.38
28	59	0.000	-504.823	0.000	0.00	0.00	-1590.73
29	59	0.000	647.323	0.000	0.00	0.00	4936.15
29	58	0.000	-577.323	0.000	0.00	0.00	-3711.51
30	58	0.000	719.000	0.000	0.00	0.00	5558.05
30	57	0.000	-638.400	0.000	0.00	0.00	-4200.65
31	57	0.000	777.217	0.000	0.00	0.00	6158.96
31	56	0.000	-701.917	0.000	0.00	0.00	-4682.48
32	56	0.000	837.805	0.000	0.00	0.00	6742.68
32	55	0.000	-767.805	0.000	0.00	0.00	-5137.07
33	55	0.000	767.805	0.000	0.00	0.00	5137.07
33	54	0.000	-697.805	0.000	0.00	0.00	-3671.46
34	54	0.000	697.805	0.000	0.00	0.00	3671.46
34	53	0.000	-617.205	0.000	0.00	0.00	-2356.45
35	53	0.000	617.205	0.000	0.00	0.00	2356.45
35	52	0.000	-541.905	0.000	0.00	0.00	-1199.99
36	52	0.000	541.905	0.000	0.00	0.00	1199.99
36	51	0.000	-471.905	0.000	0.00	0.00	-186.18
37	51	0.000	471.905	0.000	0.00	0.00	186.18
37	50	0.000	-391.305	0.000	0.00	0.00	677.03
38	50	0.000	391.305	0.000	0.00	0.00	-677.03
38	49	0.000	-316.005	0.000	0.00	0.00	1381.69
39	49	0.000	316.005	0.000	0.00	0.00	-1381.69
39	48	0.000	-246.005	0.000	0.00	0.00	1943.70
40	48	0.000	246.005	0.000	0.00	0.00	-1943.70
40	47	0.000	-165.405	0.000	0.00	0.00	2355.11
41	47	0.000	1250.817	0.000	0.00	0.00	10377.88
41	46	0.000	-1175.517	0.000	0.00	0.00	-7954.20
42	46	0.000	1280.841	0.000	0.00	0.00	10623.14
42	45	0.000	-1210.841	0.000	0.00	0.00	-8131.46
43	45	0.000	1313.125	0.000	0.00	0.00	10828.67
43	44	0.000	-1232.525	0.000	0.00	0.00	-8283.02
44	44	0.000	1331.764	0.000	0.00	0.00	11002.09
44	43	0.000	-1253.094	0.000	0.00	0.00	-8418.20
45	43	0.000	1340.066	0.000	0.00	0.00	11061.38
45	42	0.000	-1263.326	0.000	0.00	0.00	-8457.98
46	42	0.000	1357.608	0.000	0.00	0.00	11187.52
46	41	0.000	-1272.568	0.000	0.00	0.00	-8557.34
47	41	0.000	1363.712	0.000	0.00	0.00	11287.16
47	40	0.000	-1282.822	0.000	0.00	0.00	-8642.70
48	40	0.000	1370.804	0.000	0.00	0.00	11365.09
48	39	0.000	-1294.064	0.000	0.00	0.00	-8700.22
49	39	0.000	1378.917	0.000	0.00	0.00	11410.86
49	38	0.000	-1293.877	0.000	0.00	0.00	-8738.07
50	38	0.000	1375.545	0.000	0.00	0.00	11427.29
50	37	0.000	-1294.655	0.000	0.00	0.00	-8759.17
51	37	0.000	1374.540	0.000	0.00	0.00	11504.77
51	36	0.000	-1297.808	0.000	0.00	0.00	-8832.41

52	35	0.000	2209.410	0.000	0.00	0.00	61631.04	81	5	0.000	22.710	0.000	0.00	0.00	77.58
52	33	0.000	-2127.690	0.000	0.00	0.00	-57298.93	81	4	0.000	-15.169	0.000	0.00	0.00	-39.91
53	33	0.000	2127.690	0.000	0.00	0.00	57298.97	82	4	0.000	15.171	0.000	0.00	0.00	39.91
53	32	0.000	-2046.800	0.000	0.00	0.00	-53122.40	82	3	0.000	-6.872	0.000	0.00	0.00	-16.08
54	32	0.000	2046.800	0.000	0.00	0.00	53122.41	83	3	0.000	6.873	0.000	0.00	0.00	16.08
54	31	0.000	-1961.760	0.000	0.00	0.00	-49113.86	83	2	0.000	-3.817	0.000	0.00	0.00	-3.60
55	31	0.000	1994.022	0.000	0.00	0.00	50866.00	84	2	0.000	3.816	0.000	0.00	0.00	3.61
55	30	0.000	-1917.282	0.000	0.00	0.00	-46954.68	84	1	0.000	-0.003	0.000	0.00	0.00	0.00
56	30	0.000	1917.282	0.000	0.00	0.00	46954.69	85	34	0.000	2200.711	0.000	-0.82	0.00	0.00
56	29	0.000	-1836.392	0.000	0.00	0.00	-43198.97	85	35	0.000	-2200.711	0.000	0.82	0.00	12874.16
57	29	0.000	1836.393	0.000	0.00	0.00	43198.98	86	35	0.000	-2.099	0.000	0.00	0.00	-12.28
57	28	0.000	-1751.353	0.000	0.00	0.00	-39611.20	86	36	0.000	2.099	0.000	0.00	0.00	0.00
58	28	0.000	1751.353	0.000	0.00	0.00	39611.21	87	66	0.000	1231.144	0.000	0.04	0.00	0.00
58	27	0.000	-1674.033	0.000	0.00	0.00	-36185.84	87	67	0.000	-1231.144	0.000	-0.04	0.00	7202.19
59	27	0.000	1674.032	0.000	0.00	0.00	36185.85	88	67	0.000	205.006	0.000	0.01	0.00	1199.29
59	26	0.000	-1590.842	0.000	0.00	0.00	-32919.53	88	68	0.000	-205.006	0.000	-0.01	0.00	0.00
60	26	0.000	1590.844	0.000	0.00	0.00	32919.55	89	89	0.000	939.506	0.000	0.12	0.00	0.00
60	25	0.000	-1505.804	0.000	0.00	0.00	-29822.87	89	90	0.000	-939.506	0.000	-0.12	0.00	5496.11
61	25	0.000	1505.803	0.000	0.00	0.00	29822.90	90	90	0.000	-34.829	0.000	0.00	0.00	-203.75
61	24	0.000	-1428.483	0.000	0.00	0.00	-26888.62	90	91	0.000	34.829	0.000	0.00	0.00	0.00
62	24	0.000	1428.484	0.000	0.00	0.00	26888.61								
62	23	0.000	-1347.514	0.000	0.00	0.00	-24112.26								
63	23	0.000	1347.514	0.000	0.00	0.00	24112.33								
63	22	0.000	-1266.914	0.000	0.00	0.00	-21497.89								
64	22	0.000	1266.912	0.000	0.00	0.00	21497.94								
64	21	0.000	-1196.332	0.000	0.00	0.00	-19034.72								
65	21	0.000	1196.335	0.000	0.00	0.00	19034.65								
65	20	0.000	-1118.735	0.000	0.00	0.00	-16717.56								
66	20	0.000	1118.736	0.000	0.00	0.00	16717.62								
66	19	0.000	-1038.136	0.000	0.00	0.00	-14560.72								
67	19	0.000	1038.133	0.000	0.00	0.00	14560.79								
67	18	0.000	-967.553	0.000	0.00	0.00	-12555.11								
68	18	0.000	967.555	0.000	0.00	0.00	12555.01								
68	17	0.000	-889.955	0.000	0.00	0.00	-10695.56								
69	17	0.000	889.958	0.000	0.00	0.00	10695.61								
69	16	0.000	-809.358	0.000	0.00	0.00	-8996.27								
70	16	0.000	809.357	0.000	0.00	0.00	8996.29								
70	15	0.000	-738.777	0.000	0.00	0.00	-7448.11								
71	15	0.000	738.779	0.000	0.00	0.00	7448.13								
71	14	0.000	-661.179	0.000	0.00	0.00	-6046.21								
72	14	0.000	661.174	0.000	0.00	0.00	6046.22								
72	13	0.000	-580.574	0.000	0.00	0.00	-4804.46								
73	13	0.000	580.576	0.000	0.00	0.00	4804.52								
73	12	0.000	-509.996	0.000	0.00	0.00	-3713.92								
74	12	0.000	510.000	0.000	0.00	0.00	3713.90								
74	11	0.000	-437.700	0.000	0.00	0.00	-2766.93								
75	11	0.000	437.694	0.000	0.00	0.00	2766.92								
75	10	0.000	-367.694	0.000	0.00	0.00	-1961.52								
76	10	0.000	367.694	0.000	0.00	0.00	1961.54								
76	9	0.000	-297.114	0.000	0.00	0.00	-1296.71								
77	9	0.000	297.113	0.000	0.00	0.00	1296.73								
77	8	0.000	-224.813	0.000	0.00	0.00	-715.46								
78	8	0.000	224.818	0.000	0.00	0.00	715.45								
78	7	0.000	-154.818	0.000	0.00	0.00	-395.81								
79	7	0.000	154.821	0.000	0.00	0.00	395.89								
79	6	0.000	-84.821	0.000	0.00	0.00	-156.18								
80	6	0.000	84.816	0.000	0.00	0.00	156.23								
80	5	0.000	-22.713	0.000	0.00	0.00	-39.91								

procr Puente sobre el Ebro - Proceso de Construccion -

HIPOTESIS 124

Cortantes Y Min. -sin pret.-(Envolv. de Proceso)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
1	90	0.000	-183.668	0.000	0.00	0.00	0.00
1	88	0.000	258.648	0.000	0.00	0.00	-447.29
2	88	0.000	-258.648	0.000	0.00	0.00	447.29
2	87	0.000	333.948	0.000	0.00	0.00	-1037.23
3	87	0.000	-333.948	0.000	0.00	0.00	1037.24
3	86	0.000	408.188	0.000	0.00	0.00	-1781.92
4	86	0.000	-408.188	0.000	0.00	0.00	1781.92
4	85	0.000	478.188	0.000	0.00	0.00	-2668.29
5	85	0.000	-395.547	0.000	0.00	0.00	1805.12
5	84	0.000	465.547	0.000	0.00	0.00	-2666.21
6	84	0.000	-392.801	0.000	0.00	0.00	2027.68
6	83	0.000	462.801	0.000	0.00	0.00	-2883.28
7	83	0.000	-462.801	0.000	0.00	0.00	2883.28
7	82	0.000	532.801	0.000	0.00	0.00	-3878.88
8	82	0.000	-438.755	0.000	0.00	0.00	3069.95
8	81	0.000	508.755	0.000	0.00	0.00	-4017.46
9	81	0.000	-503.214	0.000	0.00	0.00	4815.31
9	80	0.000	573.214	0.000	0.00	0.00	-5891.74
10	80	0.000	-573.214	0.000	0.00	0.00	5891.74
10	79	0.000	643.214	0.000	0.00	0.00	-7108.17
11	79	0.000	-643.214	0.000	0.00	0.00	7108.17
11	78	0.000	713.214	0.000	0.00	0.00	-8464.59
12	78	0.000	-629.166	0.000	0.00	0.00	7162.46
12	77	0.000	699.166	0.000	0.00	0.00	-8490.79
13	77	0.000	-600.989	0.000	0.00	0.00	7320.42
13	76	0.000	670.989	0.000	0.00	0.00	-8592.40
14	76	0.000	-597.034	0.000	0.00	0.00	7291.84
14	75	0.000	667.034	0.000	0.00	0.00	-8555.90
15	75	0.000	-587.205	0.000	0.00	0.00	7303.09
15	74	0.000	657.205	0.000	0.00	0.00	-8547.51
16	74	0.000	-581.520	0.000	0.00	0.00	7277.58
16	73	0.000	655.760	0.000	0.00	0.00	-8512.32
17	73	0.000	-578.998	0.000	0.00	0.00	7241.12
17	72	0.000	657.668	0.000	0.00	0.00	-8478.75
18	72	0.000	-579.813	0.000	0.00	0.00	7210.06
18	71	0.000	656.553	0.000	0.00	0.00	-8446.42
19	71	0.000	-534.035	0.000	0.00	0.00	-4146.96
19	70	0.000	619.075	0.000	0.00	0.00	2993.86
20	70	0.000	-619.075	0.000	0.00	0.00	-2993.85
20	69	0.000	699.965	0.000	0.00	0.00	1672.74
21	69	0.000	-699.965	0.000	0.00	0.00	-1672.74
21	67	0.000	776.705	0.000	0.00	0.00	196.07
22	67	0.000	-721.330	0.000	0.00	0.00	-890.82
22	65	0.000	803.050	0.000	0.00	0.00	-638.54
23	65	0.000	-743.068	0.000	0.00	0.00	-129.72
23	64	0.000	823.958	0.000	0.00	0.00	-1435.22
24	64	0.000	-759.372	0.000	0.00	0.00	602.77
24	63	0.000	839.432	0.000	0.00	0.00	-2203.56
25	63	0.000	-738.307	0.000	0.00	0.00	1268.07
25	62	0.000	809.047	0.000	0.00	0.00	-2809.43
26	62	0.000	-752.284	0.000	0.00	0.00	1972.20
26	61	0.000	830.954	0.000	0.00	0.00	-3554.48
27	61	0.000	-771.449	0.000	0.00	0.00	2648.17
27	60	0.000	845.690	0.000	0.00	0.00	-4267.86
28	60	0.000	-783.377	0.000	0.00	0.00	3299.48
28	59	0.000	853.377	0.000	0.00	0.00	-4936.15
29	59	0.000	-788.431	0.000	0.00	0.00	3911.19
29	58	0.000	858.431	0.000	0.00	0.00	-5558.05
30	58	0.000	-795.751	0.000	0.00	0.00	4486.86
30	57	0.000	876.351	0.000	0.00	0.00	-6158.96
31	57	0.000	-815.217	0.000	0.00	0.00	5034.29
31	56	0.000	890.517	0.000	0.00	0.00	-6742.60
32	56	0.000	-652.963	0.000	0.00	0.00	5324.85
32	55	0.000	722.963	0.000	0.00	0.00	-6700.77
33	55	0.000	-722.962	0.000	0.00	0.00	6700.77
33	54	0.000	792.962	0.000	0.00	0.00	-8216.70
34	54	0.000	-792.962	0.000	0.00	0.00	8216.70
34	53	0.000	873.562	0.000	0.00	0.00	-9883.22
35	53	0.000	-873.562	0.000	0.00	0.00	9883.22
35	52	0.000	948.862	0.000	0.00	0.00	-11708.29
36	52	0.000	-948.863	0.000	0.00	0.00	11708.29
36	51	0.000	1018.863	0.000	0.00	0.00	-13676.02
37	51	0.000	-1018.862	0.000	0.00	0.00	13676.02
37	50	0.000	1099.462	0.000	0.00	0.00	-15794.34
38	50	0.000	-1099.463	0.000	0.00	0.00	15794.34
38	49	0.000	1174.763	0.000	0.00	0.00	-18071.22
39	49	0.000	-1174.763	0.000	0.00	0.00	18071.22
39	48	0.000	1244.763	0.000	0.00	0.00	-20490.74
40	48	0.000	-1244.762	0.000	0.00	0.00	20490.74
40	47	0.000	1325.362	0.000	0.00	0.00	-23060.87
41	47	0.000	-1325.362	0.000	0.00	0.00	23060.87
41	46	0.000	1400.662	0.000	0.00	0.00	-25789.54
42	46	0.000	-1400.662	0.000	0.00	0.00	25789.55
42	45	0.000	1470.662	0.000	0.00	0.00	-28660.87
43	45	0.000	-1470.661	0.000	0.00	0.00	28660.87
43	44	0.000	1551.261	0.000	0.00	0.00	-31682.80
44	44	0.000	-1551.264	0.000	0.00	0.00	31682.78
44	43	0.000	1629.934	0.000	0.00	0.00	-34864.96
45	43	0.000	-1629.931	0.000	0.00	0.00	34864.96
45	42	0.000	1706.671	0.000	0.00	0.00	-38201.55
46	42	0.000	-1706.671	0.000	0.00	0.00	38201.57
46	41	0.000	1791.711	0.000	0.00	0.00	-41699.95
47	41	0.000	-1791.712	0.000	0.00	0.00	41699.96
47	40	0.000	1872.602	0.000	0.00	0.00	-45366.34
48	40	0.000	-1872.602	0.000	0.00	0.00	45366.36
48	39	0.000	1949.342	0.000	0.00	0.00	-49188.27
49	39	0.000	-1949.342	0.000	0.00	0.00	49188.27
49	38	0.000	2034.382	0.000	0.00	0.00	-53172.01
50	38	0.000	-2034.382	0.000	0.00	0.00	53172.01
50	37	0.000	2115.272	0.000	0.00	0.00	-57323.77
51	37	0.000	-2115.272	0.000	0.00	0.00	57323.78
51	35	0.000	2192.013	0.000	0.00	0.00	-61631.02

52	35	0.000	-2028.992	0.000	0.00	0.00	53154.29	81	5	0.000	-843.183	0.000	0.00	0.00	-1654.20
52	33	0.000	2110.712	0.000	0.00	0.00	-57298.94	81	4	0.000	850.724	0.000	0.00	0.00	-39.91
53	33	0.000	-1950.916	0.000	0.00	0.00	49141.78	82	4	0.000	-773.370	0.000	0.00	0.00	-1537.17
53	32	0.000	2031.806	0.000	0.00	0.00	-53122.41	82	3	0.000	779.669	0.000	0.00	0.00	-16.08
54	32	0.000	-2001.783	0.000	0.00	0.00	46777.38	83	3	0.000	-700.867	0.000	0.00	0.00	-1403.39
54	31	0.000	2086.823	0.000	0.00	0.00	-50865.97	83	2	0.000	705.923	0.000	0.00	0.00	-3.61
55	31	0.000	-1904.591	0.000	0.00	0.00	43068.75	84	2	0.000	-621.661	0.000	0.00	0.00	-1247.34
55	30	0.000	1981.331	0.000	0.00	0.00	-46954.72	84	1	0.000	625.474	0.000	0.00	0.00	0.00
56	30	0.000	-1803.129	0.000	0.00	0.00	39513.90	85	34	0.000	2.099	0.000	0.00	0.00	0.00
56	29	0.000	1864.019	0.000	0.00	0.00	-43198.96	85	35	0.000	-2.099	0.000	0.00	0.00	12.26
57	29	0.000	-1709.729	0.000	0.00	0.00	36106.74	86	35	0.000	-2200.711	0.000	-0.82	0.00	-12874.16
57	28	0.000	1794.770	0.000	0.00	0.00	-39611.25	86	36	0.000	2200.711	0.000	0.82	0.00	0.00
58	28	0.000	-1624.539	0.000	0.00	0.00	32859.48	87	66	0.000	-205.006	0.000	0.01	0.00	0.00
58	27	0.000	1701.859	0.000	0.00	0.00	-36185.87	87	67	0.000	205.006	0.000	-0.01	0.00	-1199.29
59	27	0.000	-1543.590	0.000	0.00	0.00	28321.18	88	67	0.000	-1231.144	0.000	0.04	0.00	-7202.19
59	26	0.000	1626.780	0.000	0.00	0.00	-31490.15	88	68	0.000	1231.144	0.000	-0.04	0.00	0.00
60	26	0.000	-1487.963	0.000	0.00	0.00	25397.05	89	89	0.000	34.829	0.000	0.00	0.00	0.00
60	25	0.000	1573.003	0.000	0.00	0.00	-28458.04	89	90	0.000	-34.829	0.000	0.00	0.00	203.75
61	25	0.000	-1437.115	0.000	0.00	0.00	22636.73	90	90	0.000	-939.506	0.000	0.12	0.00	-5496.11
61	24	0.000	1514.436	0.000	0.00	0.00	-25588.28	90	91	0.000	939.506	0.000	-0.12	0.00	0.00
62	24	0.000	-1278.121	0.000	0.00	0.00	21475.48								
62	23	0.000	1359.091	0.000	0.00	0.00	-24112.39								
63	23	0.000	-1172.934	0.000	0.00	0.00	19071.51								
63	22	0.000	1253.534	0.000	0.00	0.00	-21497.98								
64	22	0.000	-1073.943	0.000	0.00	0.00	16816.27								
64	21	0.000	1144.523	0.000	0.00	0.00	-19034.73								
65	21	0.000	-971.738	0.000	0.00	0.00	14698.58								
65	20	0.000	1049.338	0.000	0.00	0.00	-16717.69								
66	20	0.000	-883.113	0.000	0.00	0.00	12714.00								
66	19	0.000	963.713	0.000	0.00	0.00	-14560.82								
67	19	0.000	-819.374	0.000	0.00	0.00	-1018.89								
67	18	0.000	889.954	0.000	0.00	0.00	-690.41								
68	18	0.000	-889.953	0.000	0.00	0.00	690.41								
68	17	0.000	967.553	0.000	0.00	0.00	-2545.93								
69	17	0.000	-967.553	0.000	0.00	0.00	2545.93								
69	16	0.000	1048.153	0.000	0.00	0.00	-4561.64								
70	16	0.000	-1048.153	0.000	0.00	0.00	4561.64								
70	15	0.000	1118.733	0.000	0.00	0.00	-6728.51								
71	15	0.000	-1013.410	0.000	0.00	0.00	3288.67								
71	14	0.000	1091.010	0.000	0.00	0.00	-5391.11								
72	14	0.000	-988.726	0.000	0.00	0.00	2155.84								
72	13	0.000	1069.326	0.000	0.00	0.00	-4213.89								
73	13	0.000	-980.501	0.000	0.00	0.00	1682.39								
73	12	0.000	1051.081	0.000	0.00	0.00	-3713.95								
74	12	0.000	-953.694	0.000	0.00	0.00	786.59								
74	11	0.000	1025.994	0.000	0.00	0.00	-2766.93								
75	11	0.000	-931.712	0.000	0.00	0.00	28.12								
75	10	0.000	1001.712	0.000	0.00	0.00	-1961.56								
76	10	0.000	-910.568	0.000	0.00	0.00	-594.98								
76	9	0.000	981.148	0.000	0.00	0.00	-1296.73								
77	9	0.000	-893.166	0.000	0.00	0.00	-1083.83								
77	8	0.000	965.466	0.000	0.00	0.00	-775.46								
78	8	0.000	-880.613	0.000	0.00	0.00	-1435.39								
78	7	0.000	950.613	0.000	0.00	0.00	-395.84								
79	7	0.000	-868.945	0.000	0.00	0.00	-1651.67								
79	6	0.000	938.945	0.000	0.00	0.00	-156.21								
80	6	0.000	-859.060	0.000	0.00	0.00	-1731.53								
80	5	0.000	921.163	0.000	0.00	0.00	-77.58								

Estudio en servicio

CALCULO DE LA ARMADURA TRANSVERSAL EN SERVICIO

OBJETO

Como complemento de la armadura transversal de cierre debido a la flexión transversal del tablero, es preciso la determinación de la armadura de alma debida a la flexión general del tablero

Esta armadura servirá de complemento al pretensado vertical de cierre.

METODOLOGIA

A partir de la hipótesis de carga viviria obtenida con el modelo que incluye el pretensado longitudinal y transversal se obtienen las tracciones principales en cada cierre para ver si están cubiertas con el pretensado transversal

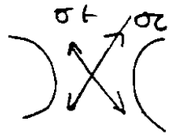
Así mismo se determinan las zonas que precisan alguna armadura complementaria como serán las zonas próximas a los alojamientos apoyos

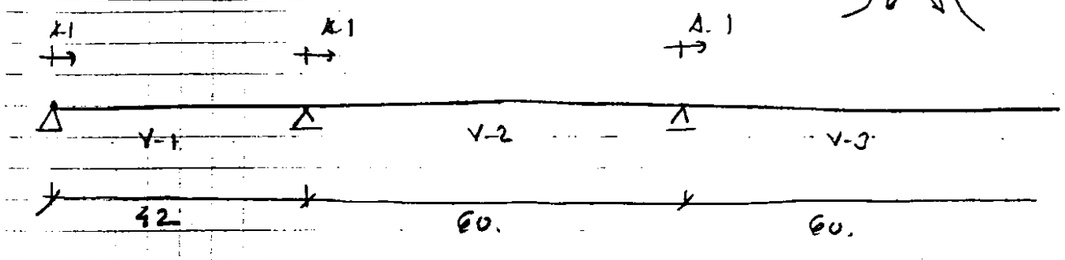
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PROYECTO

HOJA ____ DE ____
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TENSIONES DE TRACCION EN EL ALMA





VANO	ALMA	σt kp/cm²	σc kp/cm²	e	Us(T/m)	As (cm²/m)
3	1			0.50		
	2	40.33.	-153.88	0.50	604.95	144.
	3	16.70	-128.45	0.50	251.0	60
	4	—	-113.65	0.50		
	5	-14.13.	-115.74	0.40		
	6	-19.75	-103.43.	0.40		
	7	-23.04	-83.41	0.40		
	8	-17.54	-65.84	0.40		
	9	—	-36.80.	0.40		
	10	19.61	-29.62	0.40	235.32	57
	11	—	—	0.40		
2	1	—	-70.98	0.50		
	2	—	-44.42	0.50		
	3	—	-27.24	0.40		
	4	—	—	0.40		
	5	13.64	-12.44	0.40	163.68	39.
	6	-9.10	-31.08	0.40		

VANO		ALMA	σ_t kp/cm²	σ_c kp/cm²	e	$U_s(T/m)$	χ_s (cm²/m)
2		7	-19.0	-61.51	0.40		
		8	-25.59	-75.93	0.40		
		9	-11.77	-81.76	0.50		
		10	7.54	-99.24	0.50	113.10	26.9
1	*	1	-	-67.47	0.40		
	*	2	-	-44.74	0.40		
	*	3	9.94	-7.53	0.40	119.28	28.4
		4	34.82	-35.32	0.40	417.84	99.48
		5	16.19	-49.38	0.40	194.28	46.26
		6	17.55	-64.32	0.40	210.60	50.14
		7	-	-70.98	0.50	-	-

(*) Indica que la hipótesis que la estudia no es la pésima para las secciones consideradas.

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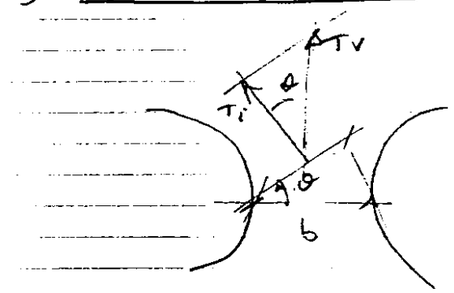
PROYECTO

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FECHA

CALCULO DE LA ARMADURA TRANSVERSAL

El cálculo de la armadura, en dirección vertical puede realizarse por 2 procedimientos, equivalentes

a) Resultante de tracciones



$T_i = \gamma_f \sigma_t \cdot e \frac{b}{\cos\theta}$ $\quad T_v = \frac{T_i}{\cos\alpha} = \gamma_f \sigma_t \cdot \frac{b \cdot e}{\cos^2\theta}$ $\quad \frac{T_v}{b} = \gamma_f \frac{\sigma_t e}{\cos^2\theta}$

$\delta\theta = 5°$ $\Rightarrow$ la cuantía por unidad de longitud $\quad U_s(T/m) = 2\gamma_f \sigma_t e = 3\,\sigma_t \cdot e$

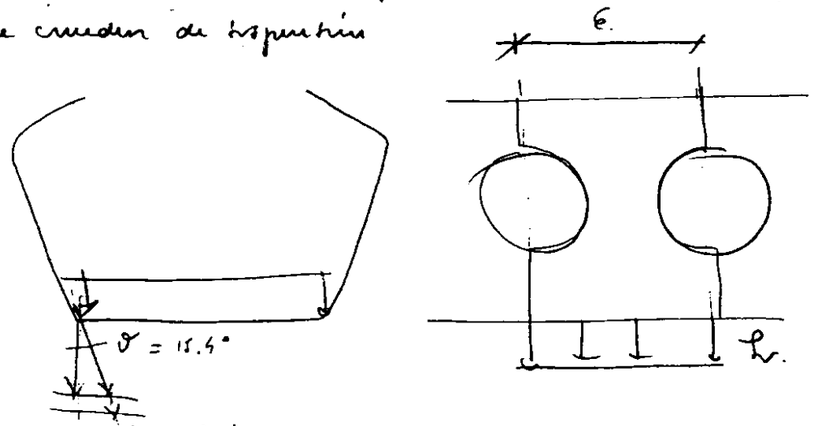
$\cos\theta = \frac{1}{\gamma_2}$ $\quad \gamma_f = 1.50$

b) Tensiones tangenciales

$\tau = \frac{1}{2}(\sigma_t - \sigma_c)$ $\quad \tau \cdot e = \frac{1}{2}(\sigma_t - \sigma_c) e = U_s(T/m)$.

APLICACIÓN INDIRECTA DE LAS CARGAS (Armadura de colgar)

. Al tratarse de un cajón, con losa inferior, las cgs se aplican en el borde inferior y hay que disponer armadura de suspensión



Las cgs por cada lado son:

. Peso propio losa inferior:	14.56 T/m.
. Cgs muros	10.54 T/m.
. Sobrecarga de uso (2 v.c.)	24.0 T/m
	49.10 T/m.

$$U_s\,(T/m) = \frac{1}{2}\,1.50 \cdot 49.10\,\frac{1}{\cos 15.4} = \frac{6}{2.2} = 104.17\ T/m$$

Sección

- Sección A-2 Vano 3

$V_d = 1.5 \frac{1}{2} 420 = 3150\ T \Rightarrow H_{d\,est} = 0.75 \cdot 3150 = 2363\ T$

$N_{pos} = 4 \cdot 317 = 1268\ T \Rightarrow H_p = 0.60 \cdot 1268 = 761\ T$

$U_s = \frac{2363 - 761}{2.2} = 728\ T/m.$

- Sección A-5 Vano 3

$V_d = 1.5 \frac{1}{2} 270 = 2025\ T \rightarrow H_{des\,l} = 0.75 \cdot 2025 = 1519\ T$

$N_{pos} = 3 \cdot 317 = 951\ T \qquad H_p = 0.60\ 951 = 571\ T$

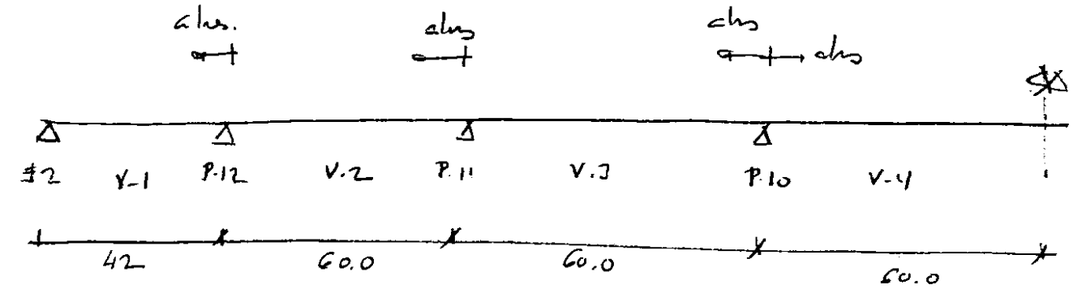
$U_s = \frac{1519 - 571}{2.2} = 431\ T/m.$

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PROYECTO _____

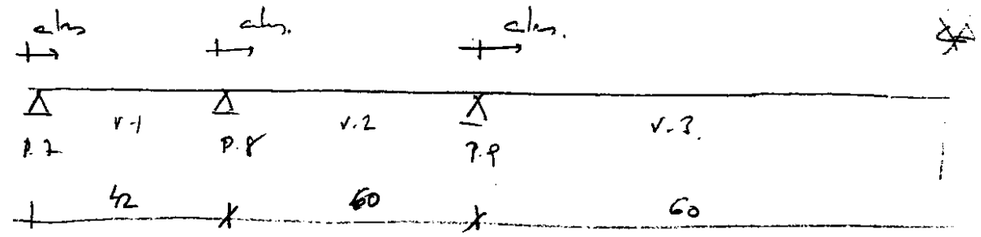
HOJA ____ DE ____
FECHA _____

ESFUERZOS CORTANTES MAYORADOS EN LAS BARRAS (CERCHA)



VARO	BARRA	elem $V_{d\,ext}$	H_{ext}	19Ø0.6" η	U_p	$U_s(T/.)$	ϕ_d $A_s(cm^2/.)$
4	1	-		-			
	2	3811	2821	4	761	963	229.
	3	3412	2560	4	761	817	195
	4	3024	2268	3	571	771	183.
	5	2608	1978	3	571	640.	153.
	6	2269	1702	3	571	514	123
	7	1908	1431	3	571	391	93
	8	1553.	1165	3	571	270	64
	9	1061	796	2	380	189	45
	10	809	607	2	380	103	25
	11						
3	1	2992	2244	4	761	671	160.
	2	2587	1940	3	571	622	148
	3	2200.	1650	3	571	490	117
	4	1818	1634	2	380	447	106
	5	1450	1088	2	380	321	77

VANO	ALTA	$V_{d,ext}$	M_{ext}	19 ϕ 06' n	H_p	U_1 (T/L)	A_f
3	6	959.	719	0	—	326	78
	7	792.	594	0	→	270.	64.
	8	1128	846	2	380	211	50.4
	9	1528	1146	2	380	348	83
2	1	2166	1624	3	571	479	114.
	2	1769	1327	2	380	430	103.
	3	1381	1036	2	380	298	71
	4	1002	752		-	341	81
	5	632.	474		-	21.	52
	6	737	553.		-	251	60
	7	1240	930	2	380	250	60
	8	1628	1221	2	380	383.	91
	9	2026	1520	3	571	431	103.
1	1	1850	1388	2	380	458	109.
	2	1459	1094	2	380	324	77
	3	1090	817			371	88.4
	4	761	571			259.	62
	5	1401	1051	2	380	301	72.
	6	1763	1322	2	380	428	102



VANO	ALTA	$V_{d,ext}$	M_{ext}	19 ϕ 06'' n	H_p	U_1 (T/L)	A_f
2	1	1451	1088	2	380	322	77
	2	1041	784	2	380	184	44
	3	811	608	-		276	66
	4	1067	800.	-		364	87
	5	1517	1137	2	380	347	83.
	6	1894	1421	2	380	473	113.
	7	2277	1708	3	571	517	123
	8	2663	1997	3	571	618	155
	9	3062	2297	4	761	698	167
1	1	1693.	1270	2	380	404	96.3.
	2	1310	983	2	380	274	65.2
	3	1016	762	-		346	82
	4	1404	1053	2	380	301	73
	5	1794	1346	2	380	438	105

DISTRIBUCIÓN DE ARMADURA VERTICAL (CONTINUA).

Armadura flexión transversal

n=0. 43. cm²/m . 0.8 = 34.40 cm²/m
n=2 32 .0.8 = 25.60 cm²/m
n=3 22.0.8 = 17.60 cm²/m
n=4 16.0.8 = 12.80 cm²/m

P.10

VANO	PANTALLA	As (cm²/m)	Armadura
4	1		
	2	242 (13)	2φ25 c a/o + φ25 a.10
	3	208 (13)	2φ25 c a.10 + φ12 c a/o
	4	201 (R)	2φ25 c a.10 + φ16 c a/o
	5	171 (18)	2φ25 c a.10
	6	141 (18)	φ25 c a.10 + φ12 c a.10
	7	111 (18)	2φ12 c a.10
	8	82 (18)	φ25 c a.10
	9	71 (26)	φ25 c a.10
	10	51 (26)	φ12 c a.10.
	11		

P.

VANO	PANTALLA	As (cm²/m)	Armadura
3	1	173.	2 φ25 c a.10
P.11	2	161	φ25 c a.10 + φ12 c a.10.
	3	130	"
	4	132	"
	5	103.	2 φ20 a.10.
	6	56	φ20 c a.10
	7	98	φ25 c a.10
	8	77	φ25 c a.10.
	9	109.	2 φ20 c a.10
2	1	127	φ25 c a.10 a. φ12 c a.10.
P.12	2	129	φ25 c a.10 + φ12 c a.10
	3	97	2 φ12 c a.10
	4	116	2 φ12 c a.10
	5	87	φ25 c a.10
	6	95	φ25 c a.10
	7	91	φ25 c a.10
	8	117	2 φ12 c a.10.
	9	121	2 φ20 c a.10

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PROYECTO_____ HOJA____ DE ____
FECHA _____

VANO	SLNA	ϕs(cm)	ϕmedio
1	1	13.	ϕ25c0.10+ϕ20c0.10
1.12	2	103.	2ϕ20c0.10
	3	124	2ϕ20c0.10
	4	97	2ϕ20c0.10
	5	99.	2ϕ20c0.10
	6	128	ϕ25c0.10+ϕ20c0.10

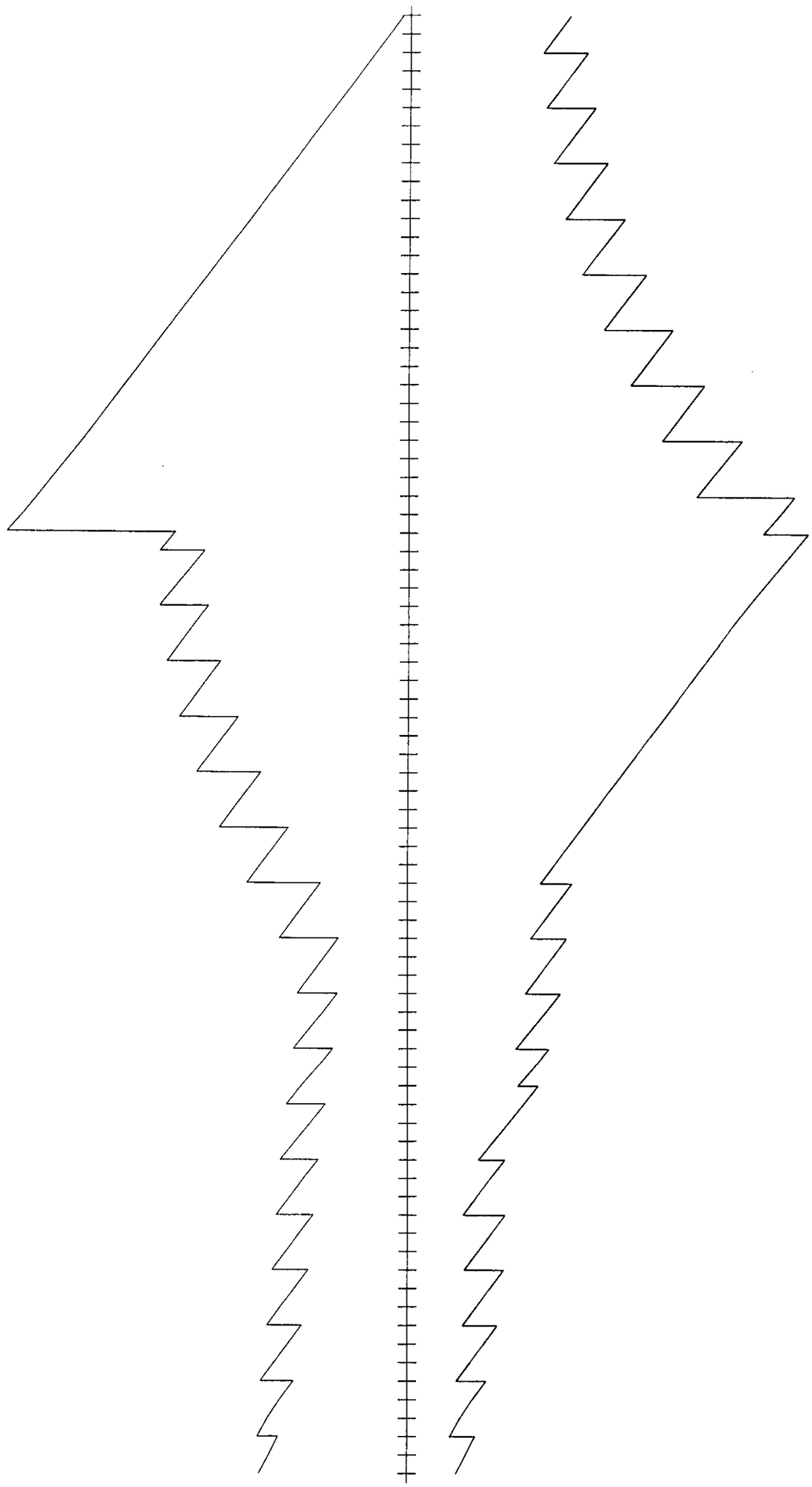
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PROYECTO_____ HOJA____ DE ____
FECHA _____

VANO	SLNA	ϕs(cm)	ϕmedio
2	1	103.	2ϕ20c0.10
p.8	2	70.	2ϕ20c0.10
	3	101	2ϕ20c0.10
	4	122	2ϕ20c0.10
	5	109.	2ϕ20c0.10.
	6	139	ϕ25c0.10+ϕ20c0.10
	7	141	"
	8	173.	2ϕ25c0.10
	9	180	"
1	1	123	ϕ25c0.10+ϕ20c0.10
p.7	2	92	2ϕ20c0.10
	3	118	"
	4	99.	"
	5	131	ϕ25c0.10+ϕ20c0.10

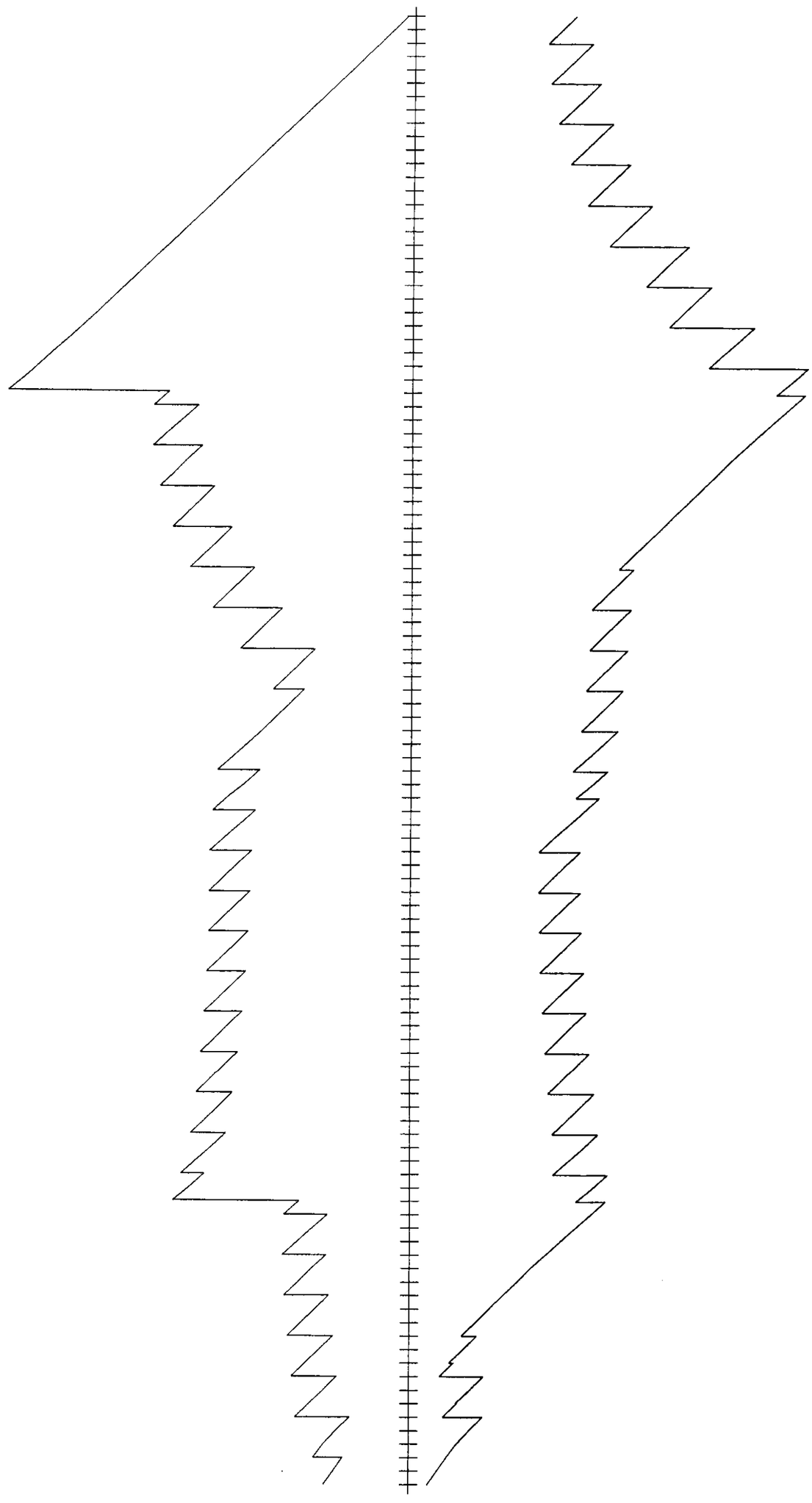
procr Puente sobre el Ebro (E1 a E2)
FUER Y MAX (Envolv. de Proceso)
FUER Y MIN (Envolv. de Proceso)

F. Y 300.0
F. Y 300.0



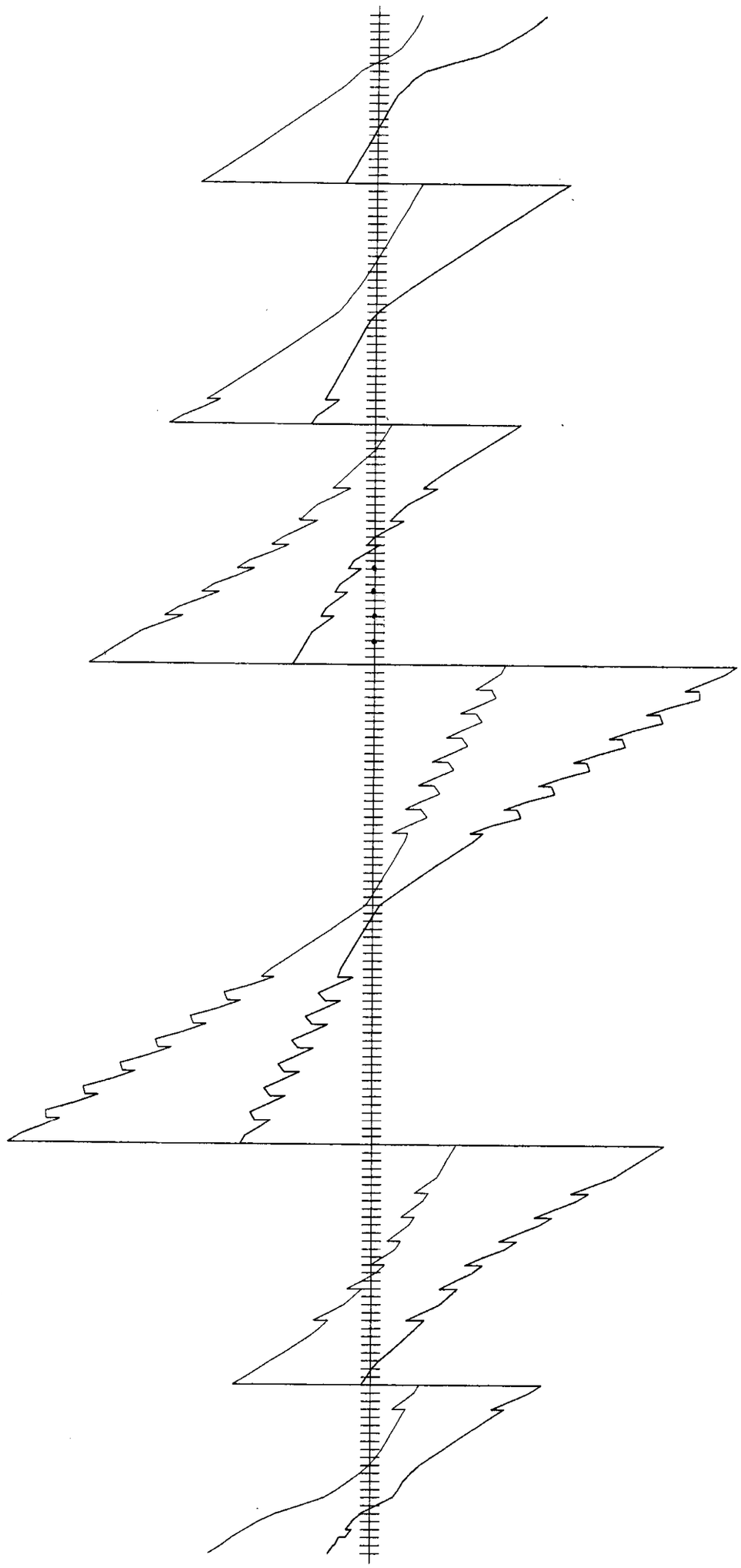
procr Puente sobre el Ebro (E2 a E1)
FUER Y MAX (Envolv. de Proceso)
FUER Y MIN (Envolv. de Proceso)

F. Y 300.0
F. Y 300.0



proc Viaducto sobre el rio Ebro
FUER Y MAX envolvente (ELU) (total)
FUER Y MIN envolvente (ELU) (total)

F. Y 1000.0
F. Y 1000.0



proc Viaducto sobre el rio Ebro

HIPOTESIS 513

FUER Y MAX envolvente (ELU) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	1	4524.99	719.24	0.04	0.00	0.00	-593.39
1	8	-4536.61	-531.05	-0.04	0.00	-0.08	1840.36
2	8	4536.64	531.05	0.04	0.00	0.08	-1840.35
2	9	-4548.30	-347.72	-0.04	0.00	-0.17	2720.66
3	9	4548.29	347.72	0.04	0.00	0.17	-2720.66
3	10	-4581.49	-169.29	6.11	0.00	-0.40	2782.35
4	10	4581.47	169.29	-6.11	0.00	0.40	-2782.35
4	11	-4600.41	-24.90	6.11	0.00	-0.54	2585.76
5	11	4600.40	24.90	-6.11	0.00	0.54	-2585.76
5	12	-4127.67	54.99	-0.04	0.00	-0.37	1376.39
6	12	4127.82	-54.99	0.04	0.00	0.37	-1376.39
6	13	-4138.93	110.58	-0.04	0.00	-0.45	1211.11
7	13	6274.16	-110.58	0.04	0.00	0.45	-1688.76
7	14	-6290.78	166.18	-0.04	0.00	-0.52	1413.51
8	14	6290.78	-166.18	0.04	0.00	0.52	-1413.51
8	15	-6307.44	221.78	-0.04	0.00	-0.60	1027.07
9	15	6307.48	-221.78	0.04	0.00	0.60	-1027.07
9	16	-6324.19	277.38	-0.04	0.00	-0.67	529.43
10	16	8300.90	1260.70	0.04	0.00	-12.41	4406.14
10	31	-8322.12	-1072.51	-0.04	0.00	12.32	-2074.33
11	31	8322.13	1072.51	0.04	0.00	-12.32	2074.33
11	32	-8343.41	-889.18	-0.04	0.00	12.24	-109.18
12	32	8343.40	889.18	0.04	0.00	-12.24	109.18
12	33	-8364.73	-705.85	-0.04	0.00	12.15	1489.32
13	33	5988.42	705.85	0.04	0.00	-12.15	1483.93
13	34	-6003.70	-522.52	-0.04	0.00	12.07	-259.72
14	34	6003.71	522.52	0.04	0.00	-12.07	259.72
14	35	-6019.03	-339.19	-0.04	0.00	11.98	597.82
15	35	6019.03	339.19	0.04	0.00	-11.98	-597.82
15	36	-6034.38	-166.07	-0.04	0.00	11.90	241.68
16	36	6034.38	166.07	0.04	0.00	-11.90	-241.68
16	37	-6160.48	-76.38	-6.23	0.00	10.59	-1031.04
17	37	6160.48	76.38	6.23	0.00	-10.59	1031.04
17	38	-6183.09	-14.60	-6.23	0.00	10.47	-965.94
18	38	6183.10	14.60	6.23	0.00	-10.47	965.94
18	39	-6200.48	47.18	-6.23	0.00	10.36	-1023.23
19	39	8648.62	-47.18	6.23	0.00	-10.36	-1707.74
19	40	-8677.59	108.95	-6.23	0.00	10.24	1532.73
20	40	8677.58	-108.95	6.23	0.00	-10.24	-1532.73
20	41	-8706.61	170.73	-6.23	0.00	10.12	1234.17
21	41	8706.61	-170.73	6.23	0.00	-10.12	-1234.17
21	42	-7738.03	227.24	-0.04	0.00	10.26	884.40
22	42	7348.75	1224.92	0.04	0.00	-14.38	4037.56
22	57	-7367.42	-1036.73	-0.04	0.00	14.29	-1778.37
23	57	7367.42	1036.73	0.04	0.00	-14.29	1778.37
23	58	-7386.13	-853.40	-0.04	0.00	14.21	114.15
24	58	7386.11	853.40	0.04	0.00	-14.21	-114.15
24	59	-7404.87	-670.07	-0.04	0.00	14.13	1640.02
25	59	5722.77	670.07	0.04	0.00	-14.13	406.88
25	60	-5737.26	-486.74	-0.04	0.00	14.04	747.08
26	60	5737.26	486.74	0.04	0.00	-14.04	-747.08
26	61	-5751.78	-303.41	-0.04	0.00	13.96	1534.37
27	61	5751.75	303.41	0.04	0.00	-13.96	-1534.37
27	62	-5766.31	-130.06	-0.04	0.00	13.87	1604.27
28	62	5766.35	130.06	0.04	0.00	-13.87	-1604.27
28	63	-5973.56	-46.99	6.09	0.00	10.70	-407.13
29	63	5973.54	46.99	-6.09	0.00	-10.70	407.14
29	64	-5995.35	14.78	6.09	0.00	10.52	-399.48
30	64	5995.30	-14.78	-6.09	0.00	-10.52	399.48
30	65	-6017.15	76.56	6.09	0.00	10.35	-515.38
31	65	8120.65	-76.56	-6.09	0.00	-10.35	-1809.82
31	66	-8147.94	138.33	6.09	0.00	10.18	1576.33
32	66	8147.90	-138.33	-6.09	0.00	-10.18	-1576.33
32	67	-8175.24	200.11	6.09	0.00	10.00	1219.30
33	67	8175.25	-200.11	-6.09	0.00	-10.00	-1219.30
33	68	-8202.65	261.89	6.09	0.00	9.83	738.72
34	68	9408.43	1249.49	0.04	0.00	-13.02	4406.12
34	83	-9432.29	-1061.30	-0.04	0.00	12.93	-2096.53
35	83	9432.28	1061.30	0.04	0.00	-12.93	2096.53
35	84	-9456.19	-877.97	-0.04	0.00	12.85	-153.60
36	84	9456.20	877.97	0.04	0.00	-12.85	153.60
36	85	-9480.17	-694.64	-0.04	0.00	12.76	1422.69
37	85	6764.33	694.64	0.04	0.00	-12.76	1298.74
37	86	-6781.39	-511.31	-0.04	0.00	12.68	-96.10
38	86	6781.39	511.31	0.04	0.00	-12.68	96.10
38	87	-6798.50	-327.98	-0.04	0.00	12.59	739.87
39	87	6798.49	327.98	0.04	0.00	-12.59	-739.87
39	88	-6815.64	-154.86	-0.04	0.00	12.51	834.77
40	88	6815.64	154.86	0.04	0.00	-12.51	-834.77
40	89	-7107.36	-71.89	6.10	0.00	8.53	-972.39
41	89	7107.35	71.89	-6.10	0.00	-8.53	972.39
41	90	-7131.76	-10.11	6.10	0.00	8.38	-915.42
42	90	7131.76	10.11	-6.10	0.00	-8.39	915.42
42	91	-7156.21	51.66	6.10	0.00	8.24	-982.00
43	91	9611.69	-51.66	-6.10	0.00	-8.24	-1727.09
43	92	-9642.49	113.44	6.10	0.00	8.10	1543.90
44	92	9642.50	-113.44	-6.10	0.00	-8.10	-1543.90
44	93	-9673.36	175.22	6.10	0.00	7.96	1237.17
45	93	9673.36	-175.22	-6.10	0.00	-7.96	-1237.17
45	94	-9704.29	236.99	6.10	0.00	7.82	806.90
46	94	9435.24	1246.87	0.04	0.00	-12.44	3970.93
46	109	-9459.06	-1058.68	-0.04	0.00	12.36	-1666.59
47	109	9459.07	1058.68	0.04	0.00	-12.36	1666.59
47	110	-9482.94	-875.35	-0.04	0.00	12.27	271.09
48	110	9482.93	875.35	0.04	0.00	-12.27	-271.09
48	111	-9506.87	-692.02	-0.04	0.00	12.19	1842.12
49	111	6815.40	692.02	0.04	0.00	-12.19	874.25
49	112	-6832.49	-508.69	-0.04	0.00	12.10	323.15

50	112	6832.48	508.69	0.04	0.00	-12.10	-323.15
50	113	-6849.61	-325.36	-0.04	0.00	12.02	1153.88
51	113	6849.60	325.36	0.04	0.00	-12.02	-1153.88
51	114	-6866.77	-154.48	-0.04	0.00	11.93	766.33
52	114	6866.80	154.48	0.04	0.00	-11.93	-766.33
52	115	-7240.47	-74.87	-6.25	-0.01	7.94	-638.73
53	115	7240.47	74.86	6.25	0.01	-7.94	638.73
53	116	-7264.90	-13.09	-6.25	-0.01	7.80	-575.81
54	116	7264.89	13.09	6.25	0.01	-7.80	575.81
54	117	-7289.37	48.69	-6.25	-0.01	7.65	-636.45
55	117	9739.68	-48.69	6.25	0.01	-7.65	-2094.01
55	118	-9770.49	110.46	-6.25	-0.01	7.50	1916.82
56	118	9770.50	-110.46	6.25	0.01	-7.50	-1916.82
56	119	-9801.38	172.24	-6.25	-0.01	7.35	1616.09
57	119	9801.37	-172.24	6.25	0.01	-7.35	-1616.09
57	120	-9832.30	234.01	-6.25	-0.01	7.20	1191.82
58	120	8090.91	1240.84	0.04	0.00	-13.88	4519.98
58	135	-8111.17	-1052.65	-0.04	0.00	13.80	-2228.23
59	135	8111.19	1052.65	0.04	0.00	-13.80	2228.23
59	136	-8131.50	-869.32	-0.04	0.00	13.71	-303.13
60	136	8131.51	869.32	0.04	0.00	-13.71	303.13
60	137	-8151.87	-685.99	-0.04	0.00	13.63	1255.32
61	137	5847.94	685.99	0.04	0.00	-13.63	1076.08
61	138	-5862.43	-502.66	-0.04	0.00	13.54	109.73
62	138	5862.43	502.66	0.04	0.00	-13.54	-109.73
62	139	-5876.96	-319.33	-0.04	0.00	13.46	928.86
63	139	5876.91	319.33	0.04	0.00	-13.46	-928.86
63	140	-5891.47	-147.74	-0.04	0.00	13.38	1017.73
64	140	5891.49	147.74	0.04	0.00	-13.38	-1017.73
64	141	-6344.44	-58.43	6.88	0.03	19.22	-838.10
65	141	6344.40	58.43	-6.88	-0.03	-19.22	838.10
65	142	-6366.21	3.34	6.88	0.03	20.64	-807.57
66	142	6366.23	-3.34	-6.88	-0.03	-20.64	807.57
66	143	-6388.08	65.12	6.88	0.03	22.05	-900.59
67	143	8491.75	-65.12	-6.88	-0.03	-22.05	-1424.55
67	144	-8519.04	126.90	6.88	0.03	23.47	1213.94
68	144	8519.04	-126.90	-6.88	-0.03	-23.47	-1213.94
68	145	-8546.39	188.67	6.88	0.03	24.88	879.79
69	145	8546.35	-188.67	-6.88	-0.03	-24.88	-879.79
69	146	-8573.75	250.45	6.88	0.03	26.30	422.09
70	146	9530.88	1361.17	0.04	0.00	-11.55	4316.00
70	161	-9554.73	-1172.98	-0.04	0.00	11.47	-1783.04
71	161	9554.74	1172.98	0.04	0.00	-11.47	1783.04
71	162	-9578.66	-989.65	-0.04	0.00	11.38	383.26
72	162	9578.64	989.65	0.04	0.00	-11.38	-383.26
72	163	-9602.62	-806.32	-0.04	0.00	11.30	2182.92
73	163	6885.93	806.32	0.04	0.00	-11.30	538.45
73	164	-6902.99	-622.99	-0.04	0.00	11.21	887.56
74	164	6903.01	622.99	0.04	0.00	-11.21	-887.56
74	165	-6920.11	-451.65	-0.04	0.00	11.13	1767.92
75	165	6920.09	451.65	0.04	0.00	-11.13	-1767.92
75	166	-6937.23	-367.64	-0.04	0.00	11.04	1226.30
76	166	6937.23	367.64	0.04	0.00	-11.04	-1226.29
76	167	-6954.42	-298.94	-0.04	0.00	10.96	1553.76
77	167	6954.48	298.94	0.04	0.00	-10.96	-1553.76
77	168	-6971.72	-229.45	-0.04	0.00	10.88	1404.99
78	168	6971.68	229.45	0.04	0.00	-10.88	-1404.99
78	169	-6469.43	-160.03	-5.92	-0.32	0.10	408.90
79	169	6469.66	170.52	5.92	0.50	-0.11	-408.90
79	170	-6479.54	-104.25	-5.92	-0.50	0.61	-452.60
80	170	6479.90	112.19	5.92	0.63	-0.62	452.60
80	171	-6996.55	-926.42	-5.92	-0.63	1.12	2989.35
81	171	6997.18	937.09	5.92	0.80	-1.14	-2989.35
81	172	-7069.91	-788.43	-5.92	-0.80	1.64	3220.68
82	172	7683.10	3385.99	0.04	0.00	-12.73	6635.52
82	187	-7747.26	-3106.03	-0.04	0.00	12.65	-2063.24
83	187	7747.24	3106.03	0.04	0.00	-12.65	2063.24
83	188	-7778.70	-2889.75	-0.04	0.00	12.56	409.85
84	188	7778.75	2889.75	0.04	0.00	-12.56	-409.85
84	189	-7827.11	-2618.94	-0.04	0.00	12.48	-1789.32
85	189	7827.09	2618.94	0.04	0.00	-12.48	1789.33
85	190	-7854.11	-2334.50	-0.04	0.00	12.39	-4594.20
86	190	7854.05	2334.50	0.04	0.00	-12.39	4594.19
86	191	-7887.64	-1980.70	-0.04	0.00	12.31	-159.41
87	191	7887.74	1980.70	0.04	0.00	-12.31	159.41
87	192	-7964.88	-1446.78	-0.04	0.00	12.22	3599.59
88	192	7964.82	1446.78	0.04	0.00	-12.22	-3599.59
88	193	-7933.77	-960.74	-0.04	0.00	12.14	5782.40
89	193	7933.77	960.74	0.04	0.00	-12.14	-5782.41
89	194	-6451.17	-689.79	-0.04	0.00	12.05	23697.97
90	194	6451.22	689.79	0.04	0.00	-12.05	-23697.98
90	195	-6457.61	-453.80	-0.04	0.00	11.97	23510.24
91	195	6457.54	453.80	0.04	0.00	-11.97	-23510.24
91	196	-6464.34	-213.15	-0.04	0.00	11.88	24058.36
92	196	6464.39	213.15	0.04	0.00	-11.88	-24058.36
92	197	-5546.23	-30.16	-0.04	0.00	11.80	18201.56
93	197	5546.14	30.16	0.04	0.00	-11.80	-18201.56
93	198	-4952.40	124.89	-0.04	0.00	10.59	16276.80
94	198	4952.47	-124.89	0.04	0.00	-10.59	-16276.80
94	199	-4954.45	243.32	-0.04	0.00	10.51	8637.17
95	199	4954.37	-243.32	0.04	0.00	-10.51	-8637.18
95	200	-4956.38	342.31	-0.04	0.00	10.42	8043.67
96	200	4956.40	-342.31	0.04	0.00	-10.42	-8043.67
96	201	-4958.45	441.31	-0.04	0.00	10.33	7252.19
97	201	6023.60	-441.31	0.04	0.00	-10.33	-10769.93
97	202	-6028.41	537.69	-0.04	0.00	10.24	10828.55
98	202	6028.63	-537.70	0.04	0.00	-10.24	-10828.55
98	203	-6460.31	634.21	-0.04	0.00	10.15	11346.27
99	203	6460.25	-634.21	0.04	0.00	-10.15	-11346.26
99	204	-6467.17	734.18	-0.04	0.00	10.06	9986.37
100	204	8712.91	-450.55	0.04	0.00	-10.06	-14098.96
100	205	-7308.05	684.95	-0.04	0.00	9.97	11875.70
101	205	7308.02	-684.95	0.04	0.00	-9.97	-11875.69
101	206	-7339.52	908.63	-0.04	0.00	9.88	10376.79
102	206	7339.45	-908.63	0.04	0.00	-9.88	-10376.79
102	207	-7347.43	1020.63	-0.04	0.00	9.79	8467.84
103	207	8337.25	2902.48	0.04	0.00	12.48	25940.71
103	222	-8345.69	-2626.27	-0.04	0.00	-12.56	-20397.99
104	222	8345.64	2626.27	0.04	0.00	12.56	20397.99
104	223	-8354.34	-2358.15	-0.04	0.00	-12.64	-15389.03
105	223	8354.70	2358.15	0.04	0.00	12.64	15389.04
105	224	-8363.38	-2090.68	-0.04	0.00	-12.73	-10915.01

106	224	8363.28	2090.68	0.04	0.00	12.73	10915.02
106	225	-8371.87	-1824.36	-0.04	0.00	-12.81	-6976.28
107	225	8371.96	1824.36	0.04	0.00	12.81	6976.29
107	226	-7908.74	-1558.73	-0.04	0.00	-12.90	-9457.90
108	226	7908.45	1558.73	0.04	0.00	12.90	9457.91
108	227	-7920.72	-1300.75	-0.04	0.00	-12.98	-6590.60
109	227	7920.70	1300.75	0.04	0.00	12.98	6590.59
109	228	-7929.73	-1089.95	-0.04	0.00	-13.07	-3821.79
110	228	7929.97	1089.95	0.04	0.00	13.07	3821.79
110	229	-7938.87	-909.43	-0.04	0.00	-13.15	-228.54
111	229	10477.58	1217.13	0.04	0.00	13.15	-2617.78
111	230	-8873.11	-891.64	-0.04	0.00	-13.24	5228.50
112	230	8873.14	891.64	0.04	0.00	13.24	-5228.50
112	231	-8907.35	-570.56	-0.04	0.00	-13.32	6772.75
113	231	8907.30	570.56	0.04	0.00	13.32	-6772.74
113	232	-8915.44	-373.00	-0.04	0.00	-13.41	7715.82
114	232	8915.38	373.00	0.04	0.00	13.41	-7715.83
114	233	-8921.93	-196.98	-0.04	0.00	-13.49	5371.62
115	233	11650.52	508.12	0.04	0.00	13.49	-8566.57
115	234	-9855.79	-189.42	-0.04	0.00	-13.57	9411.30
116	234	9855.77	189.42	0.04	0.00	13.57	-9411.31
116	235	-8359.58	110.49	-0.04	0.00	-12.32	7100.51
117	235	8359.54	-110.49	0.04	0.00	12.32	-7100.51
117	236	-8366.02	283.40	-0.04	0.00	-12.40	6691.96
118	236	12870.57	12.49	5.73	0.05	27.85	-6343.84
118	237	-10978.64	258.61	-5.73	-0.05	-26.97	5898.20
119	237	10978.64	-258.61	5.73	0.05	26.97	-5898.20
119	238	-9232.11	504.23	-0.04	0.00	-12.54	1717.60
120	238	9232.07	-504.23	0.04	0.00	12.54	-1717.61
120	239	-9237.59	615.46	-0.04	0.00	-12.62	585.52
121	239	11948.20	-335.69	0.04	0.00	12.62	-4001.73
121	240	-10080.97	564.64	-0.04	0.00	-12.69	2708.25
122	240	10080.93	-564.64	0.04	0.00	12.69	-2708.25
122	241	-10078.57	793.20	-0.04	0.00	-12.77	1425.93
123	241	10078.54	-793.20	0.04	0.00	12.77	-1425.94
123	242	-10087.42	904.75	-0.04	0.00	-12.84	-289.29
124	242	12943.04	-626.98	0.04	0.00	12.84	-3435.60
124	243	-10941.38	853.11	-0.04	0.00	-12.91	1270.27
125	243	10941.39	-853.11	0.04	0.00	12.91	-1270.27
125	244	-10975.08	1080.84	-0.04	0.00	-12.99	-603.56
126	244	10975.08	-1080.84	0.04	0.00	12.99	603.56
126	245	-10976.59	1188.68	-0.04	0.00	-13.06	-2891.46
127	245	13971.82	-904.85	0.04	0.00	13.06	-1080.10
127	246	-11838.79	1141.01	-0.04	0.00	-13.13	-1804.32
128	246	11838.84	-1141.01	0.04	0.00	13.13	1804.32
128	247	-11758.37	1375.38	-0.04	0.00	-13.21	-1003.34
129	247	11758.38	-1375.38	0.04	0.00	13.21	1003.36
129	248	-11765.61	1475.01	-0.04	0.00	-13.28	-3869.43
130	248	11765.61	-1475.01	0.04	0.00	13.28	3869.43
130	249	-11767.28	1575.08	-0.04	0.00	-13.35	-6959.62
131	249	11767.23	-1575.08	0.04	0.00	13.35	6959.64
131	250	-11784.50	1675.00	-0.04	0.00	-13.43	-10182.16
132	250	11784.50	-1675.00	0.04	0.00	13.43	10182.17
132	251	-11812.99	1775.06	-0.04	0.00	-13.50	-13556.48
133	251	13526.82	7622.46	0.04	0.00	-3.77	93886.00
133	266	-13553.40	-7345.46	-0.04	0.00	3.68	-78871.41
134	266	13553.42	7345.46	0.04	0.00	-3.68	78871.44
134	267	-13572.46	-6926.79	-0.04	0.00	3.60	-64521.14
135	267	13572.40	6926.79	0.04	0.00	-3.60	64521.19
135	268	-13539.39	-6529.61	-0.04	0.00	3.51	-51273.34
136	268	12632.43	6817.65	0.04	0.00	-3.51	54526.77
136	269	-16717.29	-6823.67	-0.04	0.00	3.43	-64017.36
137	269	16717.35	6823.67	0.04	0.00	-3.43	64017.42
137	270	-14052.54	-6211.66	-0.04	0.00	3.34	-34680.52
138	270	14052.46	6211.66	0.04	0.00	-3.34	34680.53
138	271	-14037.24	-5724.20	-0.04	0.00	3.26	-23086.80
139	271	13139.23	6002.91	0.04	0.00	-3.26	26308.15
139	272	-17417.68	-6048.33	-0.04	0.00	3.17	-39442.71
140	272	17417.64	6048.33	0.04	0.00	-3.17	39442.72
140	273	-14625.41	-5434.23	-0.04	0.00	3.09	-9716.50
141	273	14625.36	5434.23	0.04	0.00	-3.09	9716.53
141	274	-14607.26	-4950.51	-0.04	0.00	3.00	307.66
142	274	13717.10	5226.64	0.04	0.00	-3.00	2887.09
142	275	-18158.31	-5277.74	-0.04	0.00	2.92	-17502.13
143	275	18158.30	5277.73	0.04	0.00	-2.92	17502.02
143	276	-15192.98	-4680.99	-0.04	0.00	2.84	12651.47
144	276	15192.94	4680.99	0.04	0.00	-2.84	-12651.44
144	277	-15172.29	-4213.95	-0.04	0.00	2.75	21172.36
145	277	14286.81	4488.41	0.04	0.00	-2.75	-17995.72
145	278	-18868.46	-4537.55	-0.04	0.00	2.67	-2075.45
146	278	18868.46	4537.55	0.04	0.00	-2.67	2075.34
146	279	-15236.90	-3945.29	-0.04	0.00	2.58	26758.96
147	279	15236.85	3945.30	0.04	0.00	-2.58	-26758.97
147	280	-15218.77	-3481.91	-0.04	0.00	2.50	33808.27
148	280	14332.67	3756.57	0.04	0.00	-2.50	-30629.40
148	281	-18920.69	-3814.95	-0.04	0.00	2.41	6851.42
149	281	18920.64	3814.90	0.04	0.00	-2.41	-6851.42
149	282	-15804.63	-3229.23	-0.04	0.00	2.33	38280.02
150	282	15804.79	3229.25	0.04	0.00	-2.33	-38280.07
150	283	-15780.42	-2767.37	-0.04	0.00	2.24	43920.65
151	283	14893.46	3042.17	0.04	0.00	-2.24	-40739.13
151	284	-19560.19	-3105.85	-0.04	0.00	2.16	13578.37
152	284	19560.29	3105.84	0.04	0.00	-2.16	-13578.46
152	285	-16367.19	-2520.10	-0.04	0.00	2.07	45560.94
153	285	16367.15	2520.09	0.04	0.00	-2.07	-45561.00
153	286	-16340.32	-2056.24	-0.04	0.00	1.99	49803.42
154	286	15453.38	2331.29	0.04	0.00	-1.99	-46621.71
154	287	-15457.12	-2122.93	-0.04	0.00	1.91	51073.37
155	287	15457.28	2122.94	0.04	0.00	-1.91	-51073.39
155	288	-15349.54	-1868.88	-0.04	0.00	1.82	55092.30
156	288	15349.53	1868.86	0.04	0.00	-1.82	-55092.34
156	289	-15347.23	-1618.42	-0.04	0.00	1.74	58592.53
157	289	14163.60	1618.41	0.04	0.00	-1.74	-54683.96
157	290	-14161.31	-1365.12	-0.04	0.00	1.65	57690.84
158	290	14161.28	1365.14	0.04	0.00	-1.65	-57690.89
158	291	-14153.92	-1112.61	-0.04	0.00	1.57	60213.37
159	291	14153.84	1112.61	0.04	0.00	-1.57	-60213.40
159	292	-14145.77	-869.32	-0.04	0.00	1.48	57392.05
160	292	14145.78	869.31	0.04	0.00	-1.48	-57392.05
160	293	-14137.80	-629.83	-0.04	0.00	1.40	58938.74
161	293	14137.94	629.84	0.04	0.00	-1.40	-58938.73
161	294	-9810.57	-390.34	-0.04	0.00	1.31	61625.48

162	294	9810.56	390.34	0.04	0.00	-1.31	-61625.47
162	295	-9787.35	-150.85	-0.04	0.00	1.23	62262.14
163	295	9787.31	150.86	0.04	0.00	-1.23	-62262.16
163	296	-10625.95	-38.28	1.97	-0.02	-90.37	8959.67
164	296	10625.94	38.28	-1.97	0.02	90.37	-8959.67
164	297	-14840.35	65.12	1.97	-0.02	-86.43	7311.98
165	297	14840.26	-65.10	-1.97	0.02	86.43	-7311.98
165	298	-14861.47	168.48	1.97	-0.02	-82.49	7025.50
166	298	14861.64	-168.48	-1.97	0.02	82.49	-7025.47
166	299	-14882.93	271.92	1.97	-0.02	-78.55	6531.96
167	299	14882.92	-271.92	-1.97	0.02	78.55	-6531.96
167	300	-14903.51	375.15	1.97	-0.02	-74.61	5834.66
168	300	14903.44	-375.14	-1.97	0.02	74.61	-5834.69
168	301	-12582.52	473.43	-0.04	0.00	0.50	4276.00
169	301	13647.70	-473.45	0.04	0.00	-0.50	-7793.77
169	302	-13664.32	564.48	-0.04	0.00	0.42	6737.90
170	302	13664.30	-564.47	0.04	0.00	-0.42	-6737.88
170	303	-13706.87	665.06	-0.04	0.00	0.34	5494.10
171	303	13706.98	-665.05	0.04	0.00	-0.34	-5494.09
171	304	-16263.16	727.64	-0.04	0.00	0.25	-6810.57
172	304	20195.90	-393.43	-1.97	0.02	58.85	2826.01
172	305	-17402.12	757.86	-0.04	0.00	0.17	-4183.23
173	305	17402.11	-757.84	0.04	0.00	-0.17	4183.14
173	306	-14554.33	1127.94	-0.04	0.00	0.09	4239.40
174	306	14554.35	-1127.95	0.04	0.00	-0.09	-4239.37
174	307	-15739.58	994.29	-0.04	0.00	0.01	-1077.89
175	307	16808.27	-663.16	0.04	0.00	-0.01	-2755.84
175	308	-16871.62	1023.14	-0.04	0.00	-0.07	1023.28
176	308	16871.61	-1023.11	0.04	0.00	0.07	-1023.32
176	309	-14077.92	1397.79	-0.04	0.00	-0.15	7204.56
177	309	14077.97	-1397.79	0.04	0.00	0.15	-7204.54
177	310	-15194.61	1265.05	-0.04	0.00	-0.23	3062.38
178	310	16263.30	-933.81	0.04	0.00	0.23	-6895.96
178	311	-16319.90	1295.60	-0.04	0.00	-0.31	4624.63
179	311	16319.91	-1295.60	0.04	0.00	0.31	-4624.67
179	312	-13987.99	1678.51	-0.04	0.00	-0.39	10102.51
180	312	13987.95	-1678.51	0.04	0.00	0.39	-10102.49
180	313	-15082.32	1554.78	-0.04	0.00	-0.47	7357.54
181	313	16151.00	-1223.55	0.04	0.00	0.47	-11191.29
181	314	-16200.20	1589.35	-0.04	0.00	-0.55	8338.52
182	314	16200.16	-1589.37	0.04	0.00	0.55	-8338.62
182	315	-13524.27	1972.36	-0.04	0.00	-0.63	9729.36
183	315	13524.24	-1972.36	0.04	0.00	0.63	-9729.38
183	316	-14490.59	1845.43	-0.04	0.00	-0.71	8096.31
184	316	15559.21	-1514.07	0.04	0.00	0.71	-11929.83
184	317	-15594.41	1883.10	-0.04	0.00	-0.79	8511.24
185	317	15594.43	-1883.10	0.04	0.00	0.79	-8511.24
185	318	-13046.78	2264.86	-0.04	0.00	-0.87	7586.37
186	318	13046.75	-2264.86	0.04	0.00	0.87	-7586.42
186	319	-13858.77	2140.56	-0.04	0.00	-0.96	7103.93
187	319	14927.27	-1808.92	0.04	0.00	0.96	-10937.14
187	320	-14955.98	2181.52	-0.04	0.00	-1.04	6932.92
188	320	14956.01	-2181.52	0.04	0.00	1.04	-6932.94
188	321	-12528.71	2553.86	-0.04	0.00	-1.12	3680.00
189	321	12528.65	-2553.86	0.04	0.00	1.12	-3680.02
189	322	-11217.99	2464.16	-0.04	0.00	-1.20	4591.15
190	322	14217.41	-2128.73	0.04	0.00	1.20	-8243.17
190	323	-14211.81	2391.37	-0.04	0.00	-1.28	3748.75
191	323	14211.79	-2391.36	0.04	0.00	1.28	-3748.75
191	324	-12068.31	2661.23	-0.04	0.00	-1.36	-2071.53
192	324	12068.30	-2661.23	0.04	0.00	1.36	2071.52
192	325	-12057.21	2760.86	-0.04	0.00	-1.44	-7545.05
193	325	16184.21	5982.46	0.04	0.00	-14.05	112862.87
193	340	-16163.59	-5704.95	-0.04	0.00	13.96	-101285.50
194	340	16163.63	5704.95	0.04	0.00	-13.96	101285.49
194	341	-16157.84	-5439.51	-0.04	0.00	13.88	-90175.45
195	341	16157.83	5439.51	0.04	0.00	-13.88	90175.45
195	342	-16172.62	-5173.88	-0.04	0.00	13.79	-79507.33
196	342	16172.62	5173.88	0.04	0.00	-13.79	79507.34
196	343	-16187.58	-4908.84	-0.04	0.00	13.71	-69369.64
197	343	16187.56	4908.84	0.04	0.00	-13.71	69369.67
197	344	-16147.90	-4458.00	-0.04	0.00	13.62	-64126.49
198	344	16147.92	4458.00	0.04	0.00	-13.62	64126.44
198	345	-16153.93	-4024.57	-0.04	0.00	13.54	-55729.35
199	345	14969.14	4400.87	0.04	0.00	-13.54	59979.66
199	346	-15002.22	-4128.33	-0.04	0.00	13.46	-51341.15
200	346	15002.22	4128.33	0.04	0.00	-13.46	51341.12
200	347	-15053.58	-3683.87	-0.04	0.00	13.37	-43308.37
201	347	15053.57	3683.87	0.04	0.00	-13.37	43308.35
201	348	-15066.52	-3267.94	-0.04	0.00	13.29	-36393.19
202	348	13879.26	3636.42	0.04	0.00	-13.29	40652.33
202	349	-13911.61	-3366.64	-0.04	0.00	13.20	-35486.60
203	349	13911.61	3366.65	0.04	0.00	-13.20	35486.63
203	350	-13918.04	-2932.24	-0.04	0.00	13.12	-28960.26
204	350	13918.04	2932.24	0.04	0.00	-13.12	28960.26
204	351	-13935.57	-2530.94	-0.04	0.00	13.03	-23551.41
205	351	12748.25	2899.12	0.04	0.00	-13.03	27810.88
205	352	-12783.12	-2634.75	-0.04	0.00	12.95	-22190.40
206	352	12783.09	2634.75	0.04	0.00	-12.95	22190.40
206	353	-12834.27	-2204.41	-0.04	0.00	12.86	-17165.93
207	353	12834.28	2204.41	0.04	0.00	-12.86	17165.92
207	354	-12842.85	-1811.41	-0.04	0.00	12.78	-13365.62
208	354	11655.46	2179.44	0.04	0.00	-12.78	17625.26
208	355	-11678.90	-1916.87	-0.04	0.00	12.69	-24999.15
209	355	11678.90	1916.87	0.04	0.00	-12.69	24999.15
209	356	-12201.13	-1552.16	-0.04	0.00	12.61	-19318.83
210	356	12201.13	1552.16	0.04	0.00	-12.61	19318.84
210	357	-12213.30	-1216.48	-0.04	0.00	12.52	-16621.10
211	357	11025.89	1584.51	0.04	0.00	-12.52	20880.74
211	358	-11051.65	-1406.22	-0.04	0.00	12.44	-17859.05
212	358	11051.66	1406.22	0.04	0.00	-12.44	17859.04
212	359	-11080.53	-1210.15	-0.04	0.00	12.36	-15188.17
213	359	11080.54	1210.15	0.04	0.00	-12.36	15188.16
213	360	-11124.89	-851.74	-0.04	0.00	12.27	-12968.99
214	360	11124.87	851.74	0.04	0.00	-12.27	12968.99
214	361	-11133.68	-519.67	-0.04	0.00	12.19	-11684.94
215	361	9946.27	887.62	0.04	0.00	-12.19	15944.69
215	362	-9969.20	-708.25	-0.04	0.00	12.10	-14328.43
216	362	9969.19	708.25	0.04	0.00	-12.10	14328.43
216	363	-9983.74	-531.01	-0.04	0.00	12.02	-13059.93
217	363	9983.74	531.02	0.04	0.00	-12.02	13059.92
217	364	-9993.74	-345.80	-0.04	0.00	11.93	-12139.14

218	364	9993.76	345.80	0.04	0.00	-11.93	12139.14
218	365	-10444.94	-152.58	-0.04	0.00	11.85	-4455.81
219	365	10444.93	152.58	0.04	0.00	-11.85	4455.80
219	366	-9255.79	24.35	-0.09	0.00	7.47	-831.07
220	366	9255.78	-24.35	0.09	0.00	-7.47	831.06
220	367	-9277.00	132.46	-0.09	0.00	7.29	-953.14
221	367	9276.99	-132.46	0.09	0.00	-7.29	953.14
221	368	-9298.40	241.31	-0.09	0.00	7.10	-1290.60
222	368	9298.41	-241.31	0.09	0.00	-7.10	1290.60
222	369	-9315.90	346.01	-0.09	0.00	6.92	-1844.03
223	369	9161.75	4331.87	0.04	0.00	19.03	28238.61
223	384	-9166.66	-4041.11	-0.04	0.00	-19.11	-19874.77
224	384	9166.63	4041.11	0.04	0.00	19.11	19874.77
224	385	-9145.42	-3638.16	-0.04	0.00	-19.20	-12275.41
225	385	9145.45	3638.16	0.04	0.00	19.20	12275.40
225	386	-9111.80	-3263.40	-0.04	0.00	-19.28	-5567.85
226	386	8224.82	3538.43	0.04	0.00	19.28	8749.57
226	387	-8232.71	-3272.93	-0.04	0.00	-19.37	-1929.76
227	387	8232.76	3272.93	0.04	0.00	19.37	1929.77
227	388	-8202.39	-3013.84	-0.04	0.00	-19.45	583.95
228	388	8202.44	3013.84	0.04	0.00	19.45	-583.95
228	389	-8209.71	-2761.15	-0.04	0.00	-19.53	6352.78
229	389	7026.10	2761.15	0.04	0.00	19.53	-2444.16
229	390	-7032.51	-2508.46	-0.04	0.00	-19.62	7723.30
230	390	7032.49	2508.46	0.04	0.00	19.62	-7723.30
230	391	-7037.40	-2255.77	-0.04	0.00	-19.70	12503.37
231	391	7037.45	2255.77	0.04	0.00	19.70	-12503.37
231	392	-7042.40	-2003.08	-0.04	0.00	-19.79	16778.05
232	392	7042.36	2003.08	0.04	0.00	19.79	-16778.05
232	393	-7047.34	-1750.39	-0.04	0.00	-19.87	20547.37
233	393	7047.41	1750.39	0.04	0.00	19.87	-20547.37
233	394	-6031.26	-1505.65	-0.04	0.00	-19.96	18170.26
234	394	6031.23	1505.65	0.04	0.00	19.96	-18170.26
234	395	-6041.14	-1266.16	-0.04	0.00	-20.04	20943.11
235	395	6041.09	1266.16	0.04	0.00	20.04	-20943.11
235	396	-6051.03	-1026.67	-0.04	0.00	-20.13	23236.96
236	396	6051.11	1026.67	0.04	0.00	20.13	-23236.97
236	397	-6918.79	-790.70	-0.04	0.00	-20.21	15907.94
237	397	6918.78	790.71	0.04	0.00	20.21	-15907.94
237	398	-8021.51	-639.73	-1.27	-0.04	-41.68	12532.29
238	398	8021.50	639.73	1.27	0.04	41.68	-12532.29
238	399	-8023.08	-515.02	-1.27	-0.04	-44.21	13707.92
239	399	8023.09	515.02	1.27	0.04	44.21	-13707.92
239	400	-7390.45	-373.11	-0.04	0.00	-20.47	12131.86
240	400	7390.44	373.11	0.04	0.00	20.47	-12131.86
240	401	-7403.45	-263.12	-0.04	0.00	-20.55	12774.35
241	401	7403.45	263.12	0.04	0.00	20.55	-12774.34
241	402	-7416.50	-153.12	-0.04	0.00	-20.63	13196.83
242	402	7416.51	153.12	0.04	0.00	20.63	-13196.83
242	403	-7429.60	-43.13	-0.04	0.00	-20.72	13399.32
243	403	7429.60	43.13	0.04	0.00	20.72	-13399.32
243	404	-6888.10	58.44	-0.27	-0.01	-24.90	12124.97
244	404	6888.10	-58.44	0.27	0.01	24.90	-12124.97
244	405	-6900.91	157.43	-0.27	-0.01	-25.43	11915.94
245	405	6900.91	-157.43	0.27	0.01	25.43	-11915.94
245	406	-6913.76	256.42	-0.27	-0.01	-25.97	11508.90
246	406	6913.76	-256.42	0.27	0.01	25.97	-11508.90
246	407	-6922.94	355.42	-0.27	-0.01	-26.50	10905.26
247	407	6922.95	-355.42	0.27	0.01	26.50	-10905.26
247	408	-6929.81	454.41	-0.27	-0.01	-27.04	10104.52
248	408	6929.81	-454.41	0.27	0.01	27.04	-10104.52
248	409	-7873.84	556.86	-0.27	-0.01	-27.57	13243.61
249	409	7873.85	-556.86	0.27	0.01	27.57	-13243.61
249	410	-7891.75	662.77	-0.27	-0.01	-28.10	12030.97
250	410	7891.75	-662.77	0.27	0.01	28.10	-12030.97
250	411	-7909.70	764.50	-0.27	-0.01	-28.64	12291.85
251	411	7909.70	-764.50	0.27	0.01	28.64	-12291.84
251	412	-7927.69	864.47	-0.27	-0.01	-29.17	10669.90
252	412	7927.69	-864.47	0.27	0.01	29.17	-10669.90
252	413	-7940.82	964.44	-0.27	-0.01	-29.70	8850.70
253	413	4918.73	3699.84	-0.04	0.00	1.78	33642.02
253	428	-4927.33	-3422.46	0.04	0.00	-1.69	-26522.01
254	428	4927.32	3422.46	-0.04	0.00	1.69	26522.00
254	429	-3788.46	-3169.41	-10.01	-0.05	380.29	-19300.89
255	429	3788.46	3169.41	10.01	0.05	-380.29	19300.89
255	430	-3797.14	-2917.11	-10.01	-0.05	360.28	-13204.73
256	430	3797.13	2917.11	10.01	0.05	-360.28	13204.73
256	431	-3803.49	-2664.81	-10.01	-0.05	340.27	-7603.50
257	431	3803.50	2664.81	10.01	0.05	-340.27	7603.51
257	432	-4743.01	-2418.92	-10.01	-0.05	320.25	-10377.86
258	432	4743.02	2418.92	10.01	0.05	-320.25	10377.86
258	433	-4743.29	-2179.43	-10.01	-0.05	300.24	-5743.04
259	433	4743.27	2179.43	10.01	0.05	-300.24	5743.04
259	434	-4739.83	-1939.94	-10.01	-0.05	280.23	-1586.38
260	434	4739.85	1939.94	10.01	0.05	-280.22	1586.38
260	435	-4736.47	-1700.44	-10.01	-0.05	260.21	2091.27
261	435	4736.45	1700.44	10.01	0.05	-260.21	-2091.28
261	436	-4733.11	-1460.97	-10.01	-0.05	240.20	5289.91
262	436	4733.12	1460.97	10.01	0.05	-240.20	-5289.92
262	437	-4729.84	-1221.41	-10.01	-0.05	220.18	8009.60
263	437	4729.83	1221.41	10.01	0.05	-220.18	-8009.60
263	438	-4726.64	-982.19	-10.01	-0.05	200.17	10250.44
264	438	4726.65	982.19	10.01	0.05	-200.17	-10250.43
264	439	-4723.66	-742.39	-10.01	-0.05	180.16	11915.57
265	439	4723.65	742.39	10.01	0.05	-180.16	-11915.57
265	440	-4758.47	-551.60	-1.40	0.00	22.34	7085.18
266	440	4758.48	551.59	1.40	0.00	-22.34	-7085.19
266	441	-3837.65	-384.29	-1.40	0.00	19.55	1585.87
267	441	3837.65	384.29	1.40	0.00	-19.55	-1585.87
267	442	-3841.31	-77.33	-1.40	0.00	16.76	2168.90
268	442	3841.31	77.33	1.40	0.00	-16.76	-2168.90
268	443	-3735.81	268.82	-1.40	0.00	13.97	1602.70
269	443	3735.81	-268.82	1.40	0.00	-13.97	-1602.70
269	444	-4089.94	481.96	-0.21	0.00	1.66	-2626.52
270	444	4089.94	-481.96	0.21	0.00	-1.66	2626.51
270	445	-4058.01	604.58	-0.21	0.00	1.24	1726.76
271	445	4058.00	-604.58	0.21	0.00	-1.24	-1726.76
271	446	-4031.11	730.60	-0.21	0.00	0.83	6069.71
272	446	4031.11	-730.60	0.21	0.00	-0.83	-6069.71
272	447	-4005.36	837.36	-0.21	0.00	0.41	7159.88
273	447	4005.35	-837.36	0.21	0.00	-0.41	-7159.88
273	448	-3990.01	912.29	-0.21	0.00	0.00	7214.25

proc Viaducto sobre el rio Ebro

HIPOTESIS 514

FUER Y MIN envolvente (ELU) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	1	5323.72	49.19	6.11	0.00	0.00	-699.32
1	8	-5330.24	15.50	-6.11	0.00	0.13	753.56
2	8	5330.23	-15.50	6.11	0.00	-0.13	-753.56
2	9	-5336.78	77.28	-6.11	0.00	0.27	684.25
3	9	5336.78	-77.28	6.11	0.00	-0.27	-684.25
3	10	-5343.36	139.05	-6.11	0.00	0.40	491.39
4	10	5343.37	-139.05	6.11	0.00	-0.40	-491.39
4	11	-5378.64	233.30	0.04	0.00	0.34	592.99
5	11	5378.64	-233.30	-0.04	0.00	-0.34	-592.99
5	12	-5392.46	411.12	0.04	0.00	0.42	1148.35
6	12	5392.46	-411.12	-0.04	0.00	-0.42	-1148.35
6	13	-5406.31	594.45	0.04	0.00	0.50	144.60
7	13	8197.46	-594.45	-0.04	0.00	-0.50	-768.99
7	14	-8218.52	777.78	0.04	0.00	0.59	-599.81
8	14	8218.52	-777.78	-0.04	0.00	-0.59	599.81
8	15	-8239.63	961.11	0.04	0.00	0.67	-2335.25
9	15	8239.63	-961.11	-0.04	0.00	-0.67	2335.25
9	16	-8260.80	1144.44	0.04	0.00	0.76	-4437.35
10	16	6921.18	272.72	-6.23	0.00	11.41	-446.93
10	31	-6932.04	-208.03	6.23	0.00	-11.30	949.38
11	31	6932.05	208.03	-6.23	0.00	11.30	-949.38
11	32	-6942.96	-146.25	6.23	0.00	-11.18	1328.28
12	32	6942.91	146.25	-6.23	0.00	11.18	-1328.28
12	33	-6953.86	-84.47	6.23	0.00	-11.06	1583.64
13	33	4934.06	84.47	-6.23	0.00	11.06	943.63
13	34	-4939.87	-22.70	6.23	0.00	-10.94	-818.30
14	34	4939.83	22.70	-6.23	0.00	10.94	818.30
14	35	-4945.68	39.08	6.23	0.00	-10.83	-816.54
15	35	4945.69	-39.08	-6.23	0.00	10.83	816.54
15	36	-5055.13	114.52	0.04	0.00	-11.90	1115.08
16	36	5055.11	-114.52	-0.04	0.00	11.90	-1115.08
16	37	-5068.20	286.63	0.04	0.00	-11.82	1088.95
17	37	5068.18	-286.63	-0.04	0.00	11.82	-1088.95
17	38	-5081.30	469.96	0.04	0.00	-11.73	328.78
18	38	5081.30	-469.96	-0.04	0.00	11.73	-328.78
18	39	-5089.97	653.29	0.04	0.00	-11.65	-797.05
19	39	7170.87	-653.29	-0.04	0.00	11.65	-1524.28
19	40	-7189.40	836.62	0.04	0.00	-11.56	36.74
20	40	7189.39	-836.62	-0.04	0.00	11.56	-36.74
20	41	-7207.96	1019.95	0.04	0.00	-11.48	-1817.45
21	41	7207.98	-1019.95	-0.04	0.00	11.48	1817.45
21	42	-7226.60	1203.28	0.04	0.00	-11.39	-4038.29
22	42	8324.55	220.78	6.09	0.00	11.92	-946.79
22	57	-8339.34	-156.09	-6.09	0.00	-11.74	1345.25
23	57	8339.34	156.09	6.09	0.00	11.74	-1345.25
23	58	-8354.19	-94.32	-6.09	0.00	-11.57	1620.16
24	58	8354.19	94.32	6.09	0.00	11.57	-1620.16
24	59	-8369.09	-32.54	-6.09	0.00	-11.39	1771.54
25	59	6390.12	32.54	6.09	0.00	11.39	636.58
25	60	-6400.00	29.24	-6.09	0.00	-11.22	-614.94
26	60	6400.01	-29.24	6.09	0.00	11.22	614.94
26	61	-6409.93	91.01	-6.09	0.00	-11.05	-716.85
27	61	6409.92	-91.01	6.09	0.00	11.05	716.86
27	62	-6605.30	169.24	0.04	0.00	-13.87	493.79
28	62	6605.30	-169.24	-0.04	0.00	13.87	-493.79
28	63	-6622.48	341.18	0.04	0.00	-13.79	849.75
29	63	6622.48	-341.18	-0.04	0.00	13.79	-849.75
29	64	-6639.71	524.51	0.04	0.00	-13.70	-19.33
30	64	6639.69	-524.51	-0.04	0.00	13.70	19.33
30	65	-6656.96	707.84	0.04	0.00	-13.62	-1255.07
31	65	9131.66	-707.84	-0.04	0.00	13.62	-1480.46
31	66	-9155.33	891.17	0.04	0.00	-13.53	-114.93
32	66	9155.32	-891.17	-0.04	0.00	13.53	114.93
32	67	-9179.05	1074.50	0.04	0.00	-13.45	-2076.97
33	67	9179.05	-1074.50	-0.04	0.00	13.45	2076.97
33	68	-9202.85	1257.83	0.04	0.00	-13.36	-4405.65
34	68	7544.31	247.39	6.10	0.00	9.51	-742.81
34	83	-7557.41	-182.70	-6.10	0.00	-9.37	1194.77
35	83	7557.51	182.69	6.10	0.00	9.37	-1194.77
35	84	-7570.66	-120.92	-6.10	0.00	-9.23	1523.18
36	84	7570.64	120.92	6.10	0.00	9.23	-1523.18
36	85	-7583.85	-59.14	-6.10	0.00	-9.09	1728.05
37	85	5275.42	59.14	6.10	0.00	9.09	585.16
37	86	-5282.75	2.63	-6.10	0.00	-8.95	-509.78
38	86	5282.72	-2.63	6.10	0.00	8.95	509.78
38	87	-5290.09	64.41	-6.10	0.00	-8.81	-557.95
39	87	5290.05	-64.41	6.10	0.00	8.81	557.96
39	88	-5564.80	147.25	0.04	0.00	-12.51	891.72
40	88	5564.83	-147.25	-0.04	0.00	12.51	-891.71
40	89	-5579.45	320.16	0.04	0.00	-12.42	1306.50
41	89	5579.44	-320.16	-0.04	0.00	12.42	-1306.50
41	90	-5594.09	503.49	0.04	0.00	-12.34	480.01
42	90	5594.04	-503.49	-0.04	0.00	12.34	-480.01
42	91	-5608.73	686.82	0.04	0.00	-12.25	-713.15
43	91	7695.92	-686.82	-0.04	0.00	12.25	-1589.57
43	92	-7716.01	870.15	0.04	0.00	-12.17	35.66
44	92	7716.00	-870.15	-0.04	0.00	12.17	-35.66
44	93	-7736.14	1053.48	0.04	0.00	-12.09	-1884.90
45	93	7736.08	-1053.48	-0.04	0.00	12.09	1884.90
45	94	-7756.27	1236.81	0.04	0.00	-12.00	-4172.12
46	94	7408.67	246.10	-6.25	-0.01	8.98	-604.15
46	109	-7421.74	-181.41	6.25	0.01	-8.83	1053.52
47	109	7421.78	181.41	-6.25	-0.01	8.83	-1053.52
47	110	-7434.90	-119.63	6.25	0.01	-8.68	1379.34
48	110	7434.90	119.63	-6.25	-0.01	8.68	-1379.34
48	111	-7448.07	-57.86	6.25	0.01	-8.54	1581.62
49	111	5160.27	57.86	-6.25	-0.01	8.54	727.29
49	112	-5167.62	3.92	6.25	0.01	-8.39	-654.49

50	112	5167.66	-3.92	-6.25	-0.01	8.39	654.49
50	113	-5175.04	65.69	6.25	0.01	-8.24	-705.24
51	113	5175.11	-65.69	-6.25	-0.01	8.24	705.24
51	114	-5531.86	151.52	0.04	0.00	-11.93	1098.45
52	114	5531.83	-151.52	-0.04	0.00	11.93	-1098.45
52	115	-5546.46	324.99	0.04	0.00	-11.85	978.84
53	115	5546.48	-324.99	-0.04	0.00	11.85	-978.84
53	116	-5561.15	508.32	0.04	0.00	-11.76	142.68
54	116	5561.15	-508.32	-0.04	0.00	11.76	-142.68
54	117	-5575.86	691.65	0.04	0.00	-11.68	-1060.14
55	117	7658.58	-691.65	-0.04	0.00	11.68	-1260.76
55	118	-7678.68	874.98	0.04	0.00	-11.59	-302.77
56	118	7678.73	-874.98	-0.04	0.00	11.59	302.77
56	119	-7698.88	1058.31	0.04	0.00	-11.51	-2232.95
57	119	7698.81	-1058.31	-0.04	0.00	11.51	2232.95
57	120	-7719.01	1241.64	0.04	0.00	-11.43	-4529.78
58	120	8139.98	228.65	-0.04	0.00	12.56	-1249.59
58	135	-8161.05	-170.43	0.04	0.00	-12.47	1649.95
59	135	8161.05	170.43	-0.04	0.00	12.47	-1649.95
59	136	-8182.17	-114.83	0.04	0.00	-12.39	1939.12
60	136	8182.18	114.83	-0.04	0.00	12.39	-1939.12
60	137	-8730.12	-54.65	-6.88	-0.03	-13.56	1991.03
61	137	6019.65	54.65	6.88	0.03	13.56	751.79
61	138	-6029.52	7.13	-6.88	-0.03	-14.97	-685.93
62	138	6029.54	-7.13	6.88	0.03	14.97	685.93
62	139	-6039.46	68.90	-6.88	-0.03	-16.39	-743.63
63	139	6039.46	-68.90	6.88	0.03	16.39	743.63
63	140	-6480.57	170.24	0.04	0.00	-13.38	597.10
64	140	6480.56	-170.24	-0.04	0.00	13.38	-597.10
64	141	-6497.74	339.75	0.04	0.00	-13.29	970.50
65	141	6497.74	-339.75	-0.04	0.00	13.29	-970.50
65	142	-6514.96	523.08	0.04	0.00	-13.21	104.30
66	142	6514.97	-523.08	-0.04	0.00	13.21	-104.30
66	143	-6532.24	706.41	0.04	0.00	-13.12	-1128.57
67	143	9007.11	-706.41	-0.04	0.00	13.12	-1606.89
67	144	-9030.78	889.74	0.04	0.00	-13.04	14.38
68	144	9030.78	-889.74	-0.04	0.00	13.04	-14.38
68	145	-9054.51	1073.07	0.04	0.00	-12.95	-1944.78
69	145	9054.52	-1073.07	-0.04	0.00	12.95	1944.78
69	146	-9078.32	1256.40	0.04	0.00	-12.87	-4270.60
70	146	6856.58	296.33	-0.05	0.00	10.35	-510.69
70	161	-6874.45	-238.11	0.05	0.00	-10.26	1045.89
71	161	6874.47	238.11	-0.04	0.00	10.26	-1045.90
71	162	-6892.39	-182.51	0.04	0.00	-10.17	1469.91
72	162	6892.34	182.51	-0.04	0.00	10.17	-1469.91
72	163	-6910.31	-126.91	0.04	0.00	-10.08	1782.74
73	163	4832.04	126.91	-0.04	0.00	10.08	299.10
73	164	-4844.71	-71.31	0.04	0.00	-9.99	-102.81
74	164	4844.76	71.32	-0.05	0.00	9.99	102.81
74	165	-5427.92	43.90	0.04	0.00	-11.13	735.34
75	165	5427.86	-43.90	-0.04	0.00	11.13	-735.34
75	166	-5442.44	222.74	0.04	0.00	-11.04	801.36
76	166	5442.50	-222.74	-0.04	0.00	11.04	-801.36
76	167	-5457.11	406.61	0.04	0.00	-10.96	-116.25
77	167	5457.03	-406.61	-0.04	0.00	10.96	116.25
77	168	-5471.68	591.80	0.04	0.00	-10.88	-1690.25
78	168	5471.64	-591.80	-0.04	0.00	10.88	1690.25
78	169	-5486.32	779.39	0.04	0.00	-10.79	-3811.93
79	169	5486.42	-779.39	-0.04	0.00	10.79	3811.93
79	170	-5500.06	970.22	0.04	0.00	-10.71	-6545.20
80	170	5500.05	-970.22	-0.04	0.00	10.71	6545.21
80	171	-5944.39	414.49	0.04	0.00	-10.62	-5905.22
81	171	5944.51	-414.49	-0.04	0.00	10.62	5905.22
81	172	-6011.49	679.26	0.04	0.00	-10.54	-8287.58
82	172	5372.62	889.41	-0.04	0.00	11.67	-424.62
82	187	-5422.42	-761.06	0.04	0.00	-11.58	609.47
83	187	6607.57	737.59	6.78	0.25	15.27	-1215.39
83	188	-6642.12	-653.73	-6.78	-0.25	-16.52	-413.14
84	188	6606.12	521.44	6.78	1.45	16.31	413.14
84	189	-6655.78	-393.53	-6.78	-1.45	-17.69	-6126.65
85	189	6689.07	511.77	6.78	0.08	17.86	6126.65
85	190	-6720.06	-377.76	-6.78	-0.08	-19.12	-11858.88
86	190	6721.68	388.44	6.78	-0.07	19.12	11858.88
86	191	-6758.23	-199.11	-6.78	0.07	-20.38	-11195.14
87	191	5599.12	223.79	5.78	-0.89	15.41	8525.42
87	192	-6805.47	134.56	-5.78	0.89	-14.63	-10277.10
88	192	6805.43	-134.56	5.78	-0.89	14.63	10277.10
88	193	-6768.67	471.29	-5.78	0.89	-13.84	-11085.27
89	193	6768.66	-471.29	5.78	-0.89	13.84	11085.26
89	194	-5280.34	592.95	-5.78	0.89	-13.06	4137.93
90	194	5280.38	-592.95	5.78	-0.89	13.06	-4137.93
90	195	-5281.06	691.33	-5.78	0.89	-12.27	2849.75
91	195	5281.01	-691.33	5.78	-0.89	12.27	-2849.75
91	196	-5820.22	853.39	0.04	0.00	-11.88	5806.19
92	196	5820.24	-853.39	-0.04	0.00	11.88	-5806.20
92	197	-4902.12	1034.80	0.04	0.00	-11.80	9134.43
93	197	4902.04	-1034.80	-0.04	0.00	11.80	-9134.43
93	198	-4905.25	1274.37	0.04	0.00	-11.72	6817.74
94	198	4905.29	-1274.37	-0.04	0.00	11.72	-6817.74
94	199	-4908.55	1525.17	0.04	0.00	-11.63	5398.35
95	199	4908.47	-1525.17	-0.04	0.00	11.63	-5398.35
95	200	-4911.76	1777.86	0.04	0.00	-11.55	2087.95
96	200	4911.75	-1777.86	-0.04	0.00	11.55	-2087.95
96	201	-4915.08	2030.55	0.04	0.00	-11.46	-1727.81
97	201	6098.55	-2030.55	-0.04	0.00	11.46	-2180.79
97	202	-6104.96	2283.24	0.04	0.00	-11.38	-2130.28
98	202	6105.33	-2283.24	-0.04	0.00	11.38	2130.28
98	203	-6586.04	2542.34	0.04	0.00	-11.29	-5075.83
99	203	6585.91	-2542.34	-0.04	0.00	11.29	5075.84
99	204	-6594.66	2807.84	0.04	0.00	-11.21	-10415.19
100	204	7481.54	-2532.81	-0.04	0.00	11.21	7233.47
100	205	-7530.04	2907.56	0.04	0.00	-11.12	-12453.15
101	205	7529.97	-2907.56	-0.04	0.00	11.12	12453.15
101	206	-7566.03	3310.51	0.04	0.00	-11.04	-18564.64
102	206	7565.95	-3310.51	-0.04	0.00	11.04	18564.64
102	207	-7575.89	3589.39	0.04	0.00	-10.95	-25440.59
103	207	8121.05	208.99	-0.04	0.00	-11.30	-11418.28
103	222	-8121.65	-97.87	0.04	0.00	11.37	11712.16
104	222	8121.71	97.87	-0.04	0.00	-11.37	-11712.15
104	223	-8966.17	11.48	0.04	0.00	12.64	13098.55
105	223	8966.08	-11.48	-0.04	0.00	-12.64	-13098.55
105	224	-8965.64	177.20	0.04	0.00	12.73	12589.69

106	224	8965.69	-177.20	-0.04	0.00	-12.73	-12589.70
106	225	-8965.59	369.97	0.04	0.00	12.81	12031.31
107	225	8965.56	-369.97	-0.04	0.00	-12.81	-12031.31
107	226	-8408.24	563.18	0.04	0.00	12.90	4150.47
108	226	8408.28	-563.18	-0.04	0.00	-12.90	-4150.48
108	227	-8410.85	748.40	0.04	0.00	12.98	2801.48
109	227	8410.89	-748.40	-0.04	0.00	-12.98	-2801.48
109	228	-8411.01	925.64	0.04	0.00	13.07	1101.12
110	228	8410.91	-925.64	-0.04	0.00	-13.07	-1101.11
110	229	-8411.34	1105.01	0.04	0.00	13.15	-955.89
111	229	9598.82	-737.05	-0.04	0.00	-13.15	-3303.84
111	230	-9613.37	1069.12	0.04	0.00	13.24	1579.04
112	230	9613.38	-1069.12	-0.04	0.00	-13.24	-1579.03
112	231	-9592.38	1427.54	0.04	0.00	13.32	-1080.90
113	231	9592.39	-1427.54	-0.04	0.00	-13.32	1080.90
113	232	-9586.88	1623.61	0.04	0.00	13.41	-4192.54
114	232	9586.80	-1623.61	-0.04	0.00	-13.41	4192.54
114	233	-9584.40	1801.90	0.04	0.00	13.49	-7655.00
115	233	10771.78	-1433.86	-0.04	0.00	-13.49	3395.37
115	234	-10782.97	1769.55	0.04	0.00	13.57	-6533.86
116	234	10782.93	-1769.55	-0.04	0.00	-13.57	6533.86
116	235	-10137.27	2134.25	0.04	0.00	13.66	-12575.43
117	235	10137.32	-2134.25	-0.04	0.00	-13.66	12575.42
117	236	-10130.17	2339.71	0.04	0.00	13.74	-17140.92
118	236	11317.52	-1971.68	-0.04	0.00	-13.74	12881.27
118	237	-11326.08	2357.95	0.04	0.00	13.83	-7026.38
119	237	11326.10	-2357.95	-0.04	0.00	-13.83	7026.39
119	238	-11297.49	2788.30	0.04	0.00	13.91	-12376.99
120	238	11297.56	-2788.30	-0.04	0.00	-13.91	12376.99
120	239	-11285.26	3052.66	0.04	0.00	14.00	-18323.61
121	239	12472.63	-2684.49	-0.04	0.00	-14.00	14064.13
121	240	-12477.67	3085.79	0.04	0.00	14.08	-19799.12
122	240	12477.68	-3085.79	-0.04	0.00	-14.08	19799.13
122	241	-12403.81	3520.19	0.04	0.00	14.17	-26617.50
123	241	12403.79	-3520.20	-0.04	0.00	-14.17	26617.48
123	242	-12394.01	3788.59	0.04	0.00	14.25	-32123.51
124	242	13581.26	-3420.11	-0.04	0.00	-14.25	27864.39
124	243	-13590.89	3836.04	0.04	0.00	14.34	-35102.93
125	243	13590.80	-3836.04	-0.04	0.00	-14.34	35102.92
125	244	-13562.02	4280.50	0.04	0.00	14.42	-43459.09
126	244	13562.08	-4280.50	-0.04	0.00	-14.42	43459.09
126	245	-13542.88	4553.04	0.04	0.00	14.51	-52412.08
127	245	14727.62	-4176.74	-0.04	0.00	-14.51	48161.75
127	246	-14732.54	4610.17	0.04	0.00	14.59	-56868.63
128	246	14732.63	-4610.17	-0.04	0.00	-14.59	56868.64
128	247	-14587.49	5061.01	0.04	0.00	14.67	-62379.75
129	247	14587.39	-5061.01	-0.04	0.00	-14.67	62379.75
129	248	-14590.52	5326.06	0.04	0.00	14.76	-72818.50
130	248	14590.54	-5326.05	-0.04	0.00	-14.76	72818.50
130	249	-14593.84	5591.68	0.04	0.00	14.84	-83787.63
131	249	14593.84	-5591.68	-0.04	0.00	-14.84	83787.67
131	250	-14617.71	5857.12	0.04	0.00	14.93	-95198.80
132	250	14617.74	-5857.12	-0.04	0.00	-14.93	95198.77
132	251	-14656.45	6122.75	0.04	0.00	15.01	-107077.19
133	251	12989.51	2772.07	-0.04	0.00	3.40	12872.50
133	266	-13025.49	-2666.10	0.04	0.00	-3.32	-7347.92
134	266	13025.53	2666.10	-0.04	0.00	3.32	7347.91
134	267	-13083.81	-2393.56	0.04	0.00	-3.24	-2043.35
135	267	13083.76	2393.56	-0.04	0.00	3.24	2043.34
135	268	-13100.73	-2130.92	0.04	0.00	-3.16	2461.04
136	268	12034.43	2469.59	-0.04	0.00	3.16	1364.27
136	269	-11419.93	-2561.29	0.04	0.00	-3.08	-2358.65
137	269	11419.92	2561.29	-0.04	0.00	3.08	2358.64
137	270	-13750.89	-2183.71	0.04	0.00	-3.00	1235.64
138	270	13750.84	2183.71	-0.04	0.00	3.00	-1235.64
138	271	-13740.56	-1811.11	0.04	0.00	-2.92	5249.30
139	271	12672.04	2142.75	-0.04	0.00	2.92	-1416.07
139	272	-11883.64	-2272.29	0.04	0.00	-2.84	1660.17
140	272	11883.61	2272.29	-0.04	0.00	2.84	-1660.18
140	273	-14444.53	-1885.29	0.04	0.00	-2.76	2842.22
141	273	14444.49	1885.29	-0.04	0.00	2.76	-2842.19
141	274	-14424.03	-1516.27	0.04	0.00	-2.68	6271.56
142	274	13355.51	1847.62	-0.04	0.00	2.68	-2437.90
142	275	-12402.59	-1979.79	0.04	0.00	-2.59	3862.12
143	275	12402.55	1979.79	-0.04	0.00	2.59	-3862.13
143	276	-15100.96	-1591.54	0.04	0.00	-2.51	2697.62
144	276	15100.95	1591.56	-0.04	0.00	2.51	-2697.65
144	277	-15072.15	-1225.75	0.04	0.00	-2.43	5557.65
145	277	14003.54	1556.97	-0.04	0.00	2.43	-1724.07
145	278	-12918.33	-1685.94	0.04	0.00	-2.35	4287.42
146	278	12918.26	1685.94	-0.04	0.00	2.35	-4287.44
146	279	-15175.54	-1297.81	0.04	0.00	-2.27	-1052.96
147	279	15175.43	1297.81	-0.04	0.00	2.27	1052.98
147	280	-15136.40	-936.02	0.04	0.00	-2.19	1215.34
148	280	14067.82	1267.25	-0.04	0.00	2.19	2618.25
148	281	-12961.66	-1405.22	0.04	0.00	-2.11	1374.86
149	281	12961.65	1405.22	-0.04	0.00	2.11	-1374.85
149	282	-15771.98	-1025.30	0.04	0.00	-2.03	-4661.56
150	282	15772.05	1025.33	-0.04	0.00	2.03	4661.46
150	283	-15722.32	-665.35	0.04	0.00	-1.95	-2931.08
151	283	14653.58	996.48	-0.04	0.00	1.95	6764.79
151	284	-13472.78	-1135.38	0.04	0.00	-1.87	-1562.24
152	284	13472.78	1135.38	-0.04	0.00	1.87	1562.28
152	285	-16343.43	-760.03	0.04	0.00	-1.79	-9874.32
153	285	16343.38	760.02	-0.04	0.00	1.79	9874.26
153	286	-17157.89	-395.34	-1.97	0.02	129.76	-6415.79
154	286	15218.04	729.86	-0.04	0.00	1.71	12503.71
154	287	-15192.03	-671.16	0.04	0.00	-1.63	-10939.10
155	287	15191.99	671.17	-0.04	0.00	1.63	10939.12
155	288	-15057.12	-568.97	0.04	0.00	-1.55	-9577.29
156	288	15057.18	568.94	-0.04	0.00	1.55	9577.27
156	289	-15036.00	-478.33	0.04	0.00	-1.47	-8435.40
157	289	13698.69	478.32	-0.04	0.00	1.47	12851.76
157	290	-14259.73	-379.95	-1.97	0.02	114.00	-10366.74
158	290	14259.71	379.96	1.97	-0.02	-114.00	10366.65
158	291	-14237.28	-276.76	-1.97	0.02	110.06	-9594.70
159	291	14237.21	276.77	1.97	-0.02	-110.06	9594.57
159	292	-14214.91	-173.32	-1.97	0.02	106.12	-9029.96
160	292	14214.99	173.32	1.97	-0.02	-106.12	9029.93
160	293	-14192.81	-69.94	-1.97	0.02	102.19	-8672.06
161	293	14192.78	69.97	1.97	-0.02	-102.19	8672.09
161	294	-9095.92	33.43	-1.97	0.02	98.25	-6644.88

162	294	9095.93	-33.44	1.97	-0.02	-98.25	6644.89
162	295	-9886.25	137.79	0.04	0.00	-1.23	19432.18
163	295	9886.21	-137.76	-0.04	0.00	1.23	-19432.19
163	296	-9913.54	376.36	0.04	0.00	-1.14	28310.93
164	296	9913.54	-376.38	-0.04	0.00	1.14	-28310.88
164	297	-14879.93	615.88	0.04	0.00	-1.06	25384.76
165	297	14879.98	-615.87	-0.04	0.00	1.06	-25384.80
165	298	-14920.14	855.35	0.04	0.00	-0.97	23795.87
166	298	14920.15	-855.37	-0.04	0.00	0.97	-23795.78
166	299	-14960.42	1095.01	-3.12	69.85	324.27	22855.05
167	299	14960.39	-1095.04	3.12	-69.85	-324.27	-22855.08
167	300	-15000.80	1347.37	-0.74	-0.01	398.58	21416.69
168	300	15000.82	-1347.29	0.74	0.01	-398.58	-21416.69
168	301	-15041.44	1600.71	-0.74	-0.01	397.09	18349.72
169	301	16527.34	-1600.76	0.74	0.01	-397.09	-23257.00
169	302	-16572.32	1850.74	-0.74	-0.01	395.60	19695.22
170	302	16572.30	-1850.71	0.74	0.01	-395.60	-19695.13
170	303	-16653.46	2106.24	-0.74	-0.01	394.11	15612.87
171	303	16653.47	-2106.23	0.74	0.02	-394.11	-15612.77
171	304	-13866.46	2307.97	-0.74	-0.02	392.62	38044.95
172	304	14753.35	-2032.96	0.74	0.01	-392.62	-41226.63
172	305	-14793.05	2496.81	-0.74	-0.01	391.13	37024.76
173	305	14792.96	-2496.79	0.74	0.01	-391.13	-37024.78
173	306	-17988.65	3092.97	-0.74	-0.01	389.64	4856.39
174	306	17988.65	-3092.96	0.74	0.02	-389.64	-4856.42
174	307	-13344.97	3018.87	-0.74	-0.02	388.15	32283.93
175	307	14231.78	-2744.04	0.74	0.01	-388.15	-35465.48
175	308	-14269.01	3205.93	-0.74	-0.01	386.66	29865.34
176	308	14269.00	-3205.93	0.74	0.02	-386.66	-29865.39
176	309	-17394.53	3802.03	-0.74	-0.02	385.17	-1814.74
177	309	17394.50	-3802.04	0.74	0.01	-385.17	1814.75
177	310	-12822.87	3733.24	-0.74	-0.01	383.68	22295.85
178	310	13708.94	-3458.59	0.74	0.01	-383.68	-25474.54
178	311	-13743.64	3921.98	-0.74	-0.01	382.20	18464.94
179	311	13743.60	-3921.98	0.74	0.01	-382.19	-18465.01
179	312	-17281.41	4524.65	-0.74	-0.01	380.71	-10741.62
180	312	17281.39	-4524.65	0.74	0.01	-380.71	10741.74
180	313	-12731.47	4465.10	-0.74	-0.01	379.22	9745.07
181	313	13616.94	-4190.63	0.74	0.01	-379.22	-12921.79
181	314	-13656.87	4657.68	-0.74	-0.01	377.73	4450.33
182	314	13657.03	-4657.68	0.74	0.01	-377.73	-4450.36
182	315	-16639.29	5264.87	-0.74	-0.01	376.24	-26081.04
183	315	16639.29	-5264.85	0.74	0.01	-376.24	26081.06
183	316	-12214.97	5207.19	0.04	0.00	0.55	-8522.07
184	316	13105.50	-4931.06	-0.04	0.00	-0.55	5327.29
184	317	-13137.53	5414.78	0.04	0.00	0.63	-15306.46
185	317	13137.50	-5414.79	-0.04	0.00	-0.63	15306.44
185	318	-15952.86	6039.30	0.04	0.00	0.72	-45476.13
186	318	15952.86	-6039.30	-0.04	0.00	-0.72	45476.07
186	319	-11686.07	5983.46	0.04	0.00	0.80	-31810.72
187	319	12584.18	-5704.76	-0.04	0.00	-0.80	28589.41
187	320	-12616.82	6192.22	0.04	0.00	0.89	-40139.49
188	320	12616.76	-6192.22	-0.04	0.00	-0.89	40139.48
188	321	-15181.56	6814.64	0.04	0.00	0.97	-69907.86
189	321	15181.51	-6814.65	-0.04	0.00	-0.97	69907.78
189	322	-13260.83	6804.11	0.04	0.00	1.06	-75028.47
190	322	12019.96	-6510.16	-0.04	0.00	-1.06	56582.59
190	323	-12063.73	6907.35	0.04	0.00	1.14	-69786.23
191	323	12063.67	-6907.35	-0.04	0.00	-1.14	69786.25
191	324	-14394.96	7331.29	0.04	0.00	1.22	-98522.82
192	324	14394.98	-7331.29	-0.04	0.00	-1.22	98522.81
192	325	-14374.20	7596.34	0.04	0.00	1.31	-113548.84
193	325	10707.79	1728.82	-0.09	0.00	12.38	7460.73
193	340	-10693.16	-1622.34	0.09	0.00	-12.20	-4189.15
194	340	10693.14	1622.34	-0.09	0.00	12.20	4189.17
194	341	-10689.73	-1522.42	0.09	0.00	-12.02	-1069.40
195	341	10689.70	1522.42	-0.09	0.00	12.02	1069.41
195	342	-10701.89	-1422.35	0.09	0.00	-11.84	1917.93
196	342	10701.86	1422.35	-0.09	0.00	11.84	-1917.91
196	343	-10708.49	-1322.72	0.09	0.00	-11.65	4681.22
197	343	10708.51	1322.72	-0.09	0.00	11.65	-4681.23
197	344	-10647.62	-1088.36	0.09	0.00	-11.47	3802.84
198	344	10647.67	1088.36	-0.09	0.00	11.47	-3802.84
198	345	-12779.36	-860.11	0.09	0.00	-11.29	6372.25
199	345	9793.74	1136.02	-0.09	0.00	11.29	-2606.29
199	346	-9802.86	-1028.18	0.09	0.00	-11.11	4781.14
200	346	9802.86	1028.18	-0.09	0.00	11.11	-4781.16
200	347	-9786.45	-800.45	0.09	0.00	-10.93	6535.12
201	347	9786.43	800.45	-0.09	0.00	10.93	-6535.13
201	348	-11803.70	-582.25	0.09	0.00	-10.74	8416.03
202	348	8949.73	852.09	-0.09	0.00	10.74	-4855.72
202	349	-8958.14	-740.55	0.09	0.00	-10.56	6451.09
203	349	8958.19	740.55	-0.09	0.00	10.56	-6451.09
203	350	-8908.98	-511.99	0.09	0.00	-10.38	7639.67
204	350	8908.96	511.98	-0.09	0.00	10.38	-7639.67
204	351	-13106.96	-285.14	0.67	0.06	-20.97	5043.88
205	351	8083.06	562.81	-0.09	0.00	10.20	-5397.08
205	352	-8094.82	-451.58	0.09	0.00	-10.02	6409.32
206	352	8094.78	451.57	-0.09	0.00	10.02	-6409.32
206	353	-8082.68	-186.51	0.09	0.00	-9.83	12765.74
207	353	8082.67	186.51	-0.09	0.00	9.83	-12765.74
207	354	-10726.20	98.63	0.04	0.00	-12.78	14392.02
208	354	7259.16	182.21	-0.09	0.00	9.65	-9989.68
208	355	-7265.15	-9.30	0.09	0.00	-9.47	10184.25
209	355	7265.15	9.30	-0.09	0.00	9.47	-10184.25
209	356	-8290.48	301.48	0.04	0.00	-12.61	12685.75
210	356	8290.45	-301.49	-0.04	0.00	12.61	-12685.75
210	357	-10096.65	611.38	0.04	0.00	-12.52	11583.55
211	357	7376.46	-309.04	-0.04	0.00	12.52	-8416.84
211	358	-7389.76	479.03	0.04	0.00	-12.44	7622.68
212	358	7389.77	-479.03	-0.04	0.00	12.44	-7622.68
212	359	-7401.48	672.94	0.04	0.00	-12.36	7955.78
213	359	7401.46	-672.94	-0.04	0.00	12.36	-7955.78
213	360	-7387.11	994.02	0.04	0.00	-12.27	6201.67
214	360	7387.08	-994.02	-0.04	0.00	12.27	-6201.66
214	361	-9017.04	1310.72	0.04	0.00	-12.19	3419.63
215	361	6472.65	-1011.82	-0.04	0.00	12.19	-534.77
215	362	-6483.61	1214.82	0.04	0.00	-12.10	-4444.34
216	362	6483.59	-1214.82	-0.04	0.00	12.10	4444.34
216	363	-6487.09	1466.09	0.04	0.00	-12.02	-7134.51
217	363	6487.05	-1466.09	-0.04	0.00	12.02	7134.51
217	364	-6485.46	1724.07	0.04	0.00	-11.93	-10326.95

218	364	6485.51	-1724.07	-0.04	0.00	11.93	10326.94
218	365	-6858.52	1989.70	0.04	0.00	-11.85	-7974.31
219	365	6858.54	-1989.70	-0.04	0.00	11.85	7974.30
219	366	-6870.52	2256.02	0.04	0.00	-11.76	-12219.22
220	366	6870.47	-2256.02	-0.04	0.00	11.76	12219.22
220	367	-6882.38	2523.49	0.04	0.00	-11.68	-16999.41
221	367	6882.41	-2523.49	-0.04	0.00	11.68	16999.42
221	368	-6894.29	2791.61	0.04	0.00	-11.59	-22314.55
222	368	6894.23	-2791.61	-0.04	0.00	11.59	22314.55
222	369	-6902.88	3055.94	0.04	0.00	-11.51	-28162.13
223	369	5915.23	1360.96	-0.27	-0.01	-13.69	1535.36
223	384	-5918.69	-1242.54	0.27	0.01	14.22	1062.90
224	384	5918.67	1242.54	-0.27	-0.01	-14.22	-1062.91
224	385	-7332.41	-1003.89	0.27	0.01	14.76	4575.95
225	385	7332.40	1003.89	-0.27	-0.01	-14.76	-4575.96
225	386	-7332.08	-765.60	0.27	0.01	15.29	6272.87
226	386	5069.13	1068.09	-0.27	-0.01	-15.29	-2051.10
226	387	-5075.26	-968.11	0.27	0.01	15.82	4093.62
227	387	5075.29	968.11	-0.27	-0.01	-15.82	-4093.62
227	388	-5046.99	-871.60	0.27	0.01	16.36	2537.48
228	388	5047.02	871.60	-0.27	-0.01	-16.36	-2537.48
228	389	-5052.60	-778.55	0.27	0.01	16.89	4180.83
229	389	3987.35	778.55	-0.27	-0.01	-16.89	-663.08
229	390	-3992.16	-685.50	0.27	0.01	17.42	2134.43
230	390	3992.15	685.50	-0.27	-0.01	-17.42	-2134.43
230	391	-3995.61	-592.45	0.27	0.01	17.96	3425.37
231	391	3995.64	592.45	-0.27	-0.01	-17.96	-3425.37
231	392	-3999.13	-499.39	0.27	0.01	18.49	4530.19
232	392	3999.10	499.39	-0.27	-0.01	-18.49	-4530.20
232	393	-4002.63	-406.34	0.27	0.01	19.03	5448.92
233	393	4002.67	406.34	-0.27	-0.01	-19.03	-5448.93
233	394	-3087.17	-313.29	0.27	0.01	19.56	2412.55
234	394	3087.14	313.29	-0.27	-0.01	-19.56	-2412.55
234	395	-3095.10	-219.14	0.27	0.01	20.09	2399.78
235	395	3095.09	219.14	-0.27	-0.01	-20.09	-2399.78
235	396	-3103.08	-120.15	0.27	0.01	20.63	2738.72
236	396	3103.12	120.15	-0.27	-0.01	-20.63	-2738.72
236	397	-2563.32	50.93	1.27	0.04	39.15	7496.76
237	397	2563.28	-50.93	-1.27	-0.04	-39.15	-7496.76
237	398	-4522.68	257.77	0.04	0.00	20.30	21119.32
238	398	4522.66	-257.77	-0.04	0.00	-20.30	-21119.32
238	399	-4523.18	497.26	0.04	0.00	20.38	20367.88
239	399	4523.19	-497.26	-0.04	0.00	-20.38	-20367.88
239	400	-4989.45	736.75	0.04	0.00	20.47	21157.22
240	400	4989.45	-736.75	-0.04	0.00	-20.47	-21157.21
240	401	-5002.46	976.24	0.04	0.00	20.55	19450.48
241	401	5002.46	-976.24	-0.04	0.00	-20.55	-19450.47
241	402	-5015.50	1222.39	0.04	0.00	20.63	19913.00
242	402	5015.52	-1222.39	-0.04	0.00	-20.63	-19913.01
242	403	-5028.61	1475.08	0.04	0.00	20.72	17221.76
243	403	5028.60	-1475.08	-0.04	0.00	-20.72	-17221.76
243	404	-5041.74	1727.77	0.04	0.00	20.80	14025.13
244	404	5041.74	-1727.77	-0.04	0.00	-20.80	-14025.12
244	405	-5054.91	1980.46	0.04	0.00	20.89	10323.09
245	405	5054.91	-1980.46	-0.04	0.00	-20.89	-10323.09
245	406	-5068.12	2226.24	0.04	0.00	20.97	4790.15
246	406	5068.12	-2226.24	-0.04	0.00	-20.97	-4790.15
246	407	-5077.27	2478.93	0.04	0.00	21.06	92.70
247	407	5077.27	-2478.93	-0.04	0.00	-21.06	-92.70
247	408	-5083.83	2731.62	0.04	0.00	21.14	-5109.15
248	408	5083.83	-2731.62	-0.04	0.00	-21.14	5109.15
248	409	-6131.69	2990.72	0.04	0.00	21.23	-6220.10
249	409	6131.69	-2990.72	-0.04	0.00	-21.23	6220.09
249	410	-6150.53	3256.22	0.04	0.00	21.31	-12460.65
250	410	6150.53	-3256.22	-0.04	0.00	-21.31	12460.65
250	411	-6169.41	3521.72	0.04	0.00	21.40	-19232.17
251	411	6169.41	-3521.72	-0.04	0.00	-21.40	19232.19
251	412	-6188.34	3787.22	0.04	0.00	21.48	-26534.70
252	412	6188.34	-3787.22	-0.04	0.00	-21.48	26534.70
252	413	-6201.88	4052.72	0.04	0.00	21.56	-34365.25
253	413	8276.02	677.46	-0.43	0.00	18.10	-8218.86
253	428	-8287.03	-571.07	0.43	0.00	-17.24	9473.63
254	428	8287.03	571.07	-0.43	0.00	17.24	-9473.63
254	429	-8298.08	-471.10	0.43	0.00	-16.38	10528.49
255	429	8298.08	471.10	-0.43	0.00	16.38	-10528.49
255	430	-8309.18	-371.13	0.43	0.00	-15.52	11383.41
256	430	8309.18	371.13	-0.43	0.00	15.52	-11383.41
256	431	-8317.83	-271.16	0.43	0.00	-14.65	12048.63
257	431	8317.82	271.16	-0.43	0.00	14.65	-12048.63
257	432	-9314.52	-174.65	0.43	0.00	-13.79	4178.28
258	432	9314.53	174.65	-0.43	0.00	13.79	-4178.29
258	433	-9316.72	-81.60	0.43	0.00	-12.93	4475.66
259	433	9316.71	81.60	-0.43	0.00	12.93	-4475.65
259	434	-9314.99	11.46	0.43	0.00	-12.07	4587.79
260	434	9314.99	-11.45	-0.43	0.00	12.07	-4587.79
260	435	-9313.31	104.51	0.43	0.00	-11.21	4513.79
261	435	9313.31	-104.51	-0.43	0.00	11.21	-4513.79
261	436	-9311.70	197.55	0.43	0.00	-10.34	4253.65
262	436	9311.70	-197.55	-0.43	0.00	10.34	-4253.65
262	437	-11010.57	292.11	1.40	0.00	-30.72	486.17
263	437	11010.56	-292.11	-1.40	0.00	30.72	-486.17
263	438	-11007.88	395.19	1.40	0.00	-27.93	-155.91
264	438	11007.88	-395.19	-1.40	0.00	27.93	155.91
264	439	-11005.43	570.92	1.40	0.00	-25.14	4030.63
265	439	11005.43	-570.92	-1.40	0.00	25.14	-4030.63
265	440	-9893.40	723.64	-0.04	0.00	0.68	9872.92
266	440	9893.39	-723.64	0.04	0.00	-0.68	-9872.92
266	441	-9221.60	979.33	-0.04	0.00	0.59	9350.58
267	441	9221.61	-979.33	0.04	0.00	-0.59	-9350.57
267	442	-9235.77	1522.44	-0.04	0.00	0.51	7050.13
268	442	9235.76	-1522.44	0.04	0.00	-0.51	-7050.13
268	443	-9083.35	2125.04	-0.04	0.00	0.42	3055.10
269	443	9083.35	-2125.04	0.04	0.00	-0.42	-3055.11
269	444	-8992.45	2527.82	-0.04	0.00	0.34	-1852.00
270	444	8992.45	-2527.82	0.04	0.00	-0.34	1852.00
270	445	-8951.78	2801.42	-0.04	0.00	0.25	307.01
271	445	8951.78	-2801.42	0.04	0.00	-0.25	-307.01
271	446	-8915.94	3069.82	-0.04	0.00	0.17	2312.34
272	446	8915.94	-3069.82	0.04	0.00	-0.17	-2312.34
272	447	-8882.35	3318.70	-0.04	0.00	0.09	-420.66
273	447	8882.35	-3318.70	0.04	0.00	-0.09	420.66
273	448	-8862.37	3526.98	-0.04	0.00	0.00	-4784.53

procr Puente sobre el Ebro (E1 a E2)

HIPOTESIS 123

FUER Y MAX (Envolv. de Proceso)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	184	0.00	164.15	0.00	0.00	0.00	0.00
1	182	0.00	-116.53	0.00	0.00	0.00	277.45
2	182	0.00	116.53	0.00	0.00	0.00	-277.45
2	181	0.00	-72.15	0.00	0.00	0.00	466.13
3	181	0.00	169.72	0.00	0.00	0.00	190.48
3	180	0.00	-125.34	0.00	0.00	0.00	104.59
4	180	0.00	125.34	0.00	0.00	0.00	-104.59
4	179	0.00	-80.96	0.00	0.00	0.00	310.90
5	179	0.00	98.13	0.00	0.00	0.00	736.00
5	178	0.00	-53.75	0.00	0.00	0.00	-584.12
6	178	0.00	175.54	0.00	0.00	0.00	302.23
6	177	0.00	-131.16	0.00	0.00	0.00	4.48
7	177	0.00	131.16	0.00	0.00	0.00	-4.48
7	176	0.00	-86.78	0.00	0.00	0.00	222.42
8	176	0.00	86.78	0.00	0.00	0.00	-222.42
8	175	0.00	-42.40	0.00	0.00	0.00	351.61
9	175	0.00	192.36	0.00	0.00	0.00	661.03
9	173	0.00	-147.98	0.00	0.00	0.00	-320.69
10	173	0.00	255.83	0.00	0.00	0.00	698.38
10	171	0.00	-208.21	0.00	0.00	0.00	-237.58
11	171	0.00	208.21	0.00	0.00	0.00	237.58
11	170	0.00	-163.83	0.00	0.00	0.00	134.45
12	170	0.00	254.60	0.00	0.00	0.00	743.16
12	169	0.00	-210.22	0.00	0.00	0.00	-278.35
13	169	0.00	210.22	0.00	0.00	0.00	278.35
13	168	0.00	-165.84	0.00	0.00	0.00	97.70
14	168	0.00	165.84	0.00	0.00	0.00	-97.70
14	167	0.00	-121.46	0.00	0.00	0.00	385.00
15	167	0.00	256.24	0.00	0.00	0.00	769.64
15	166	0.00	-211.86	0.00	0.00	0.00	-301.53
16	166	0.00	211.86	0.00	0.00	0.00	301.53
16	165	0.00	-167.48	0.00	0.00	0.00	77.82
17	165	0.00	167.48	0.00	0.00	0.00	-77.82
17	164	0.00	-123.10	0.00	0.00	0.00	368.40
18	164	0.00	259.90	0.00	0.00	0.00	845.16
18	163	0.00	-215.52	0.00	0.00	0.00	-369.73
19	163	0.00	215.52	0.00	0.00	0.00	369.73
19	162	0.00	-171.14	0.00	0.00	0.00	16.94
20	162	0.00	171.14	0.00	0.00	0.00	-16.94
20	161	0.00	-126.76	0.00	0.00	0.00	314.84
21	161	0.00	258.91	0.00	0.00	0.00	791.31
21	159	0.00	-214.53	0.00	0.00	0.00	-317.87
22	159	0.00	268.08	0.00	0.00	0.00	1027.03
22	157	0.00	-220.46	0.00	0.00	0.00	-541.73
23	157	0.00	220.46	0.00	0.00	0.00	541.73
23	156	0.00	-176.08	0.00	0.00	0.00	-145.19
24	156	0.00	265.53	0.00	0.00	0.00	1036.52
24	155	0.00	-221.15	0.00	0.00	0.00	-549.84
25	155	0.00	221.15	0.00	0.00	0.00	549.84
25	154	0.00	-176.77	0.00	0.00	0.00	-151.92
26	154	0.00	176.77	0.00	0.00	0.00	151.92
26	153	0.00	-132.39	0.00	0.00	0.00	157.25
27	153	0.00	266.43	0.00	0.00	0.00	1042.91
27	152	0.00	-222.05	0.00	0.00	0.00	-554.43
28	152	0.00	222.05	0.00	0.00	0.00	554.43
28	151	0.00	-177.67	0.00	0.00	0.00	-154.72
29	151	0.00	177.67	0.00	0.00	0.00	154.72
29	150	0.00	-133.29	0.00	0.00	0.00	156.23
30	150	0.00	267.53	0.00	0.00	0.00	1050.03
30	149	0.00	-223.15	0.00	0.00	0.00	-559.36
31	149	0.00	223.15	0.00	0.00	0.00	559.36
31	148	0.00	-178.77	0.00	0.00	0.00	-157.45
32	148	0.00	178.77	0.00	0.00	0.00	157.45
32	147	0.00	-134.39	0.00	0.00	0.00	155.71
33	147	0.00	268.14	0.00	0.00	0.00	1039.39
33	145	0.00	-223.76	0.00	0.00	0.00	-547.48
34	145	0.00	269.22	0.00	0.00	0.00	1061.60
34	143	0.00	-221.60	0.00	0.00	0.00	-574.02
35	143	0.00	221.60	0.00	0.00	0.00	574.02
35	142	0.00	-177.22	0.00	0.00	0.00	-175.21
36	142	0.00	266.52	0.00	0.00	0.00	1067.44
36	141	0.00	-222.14	0.00	0.00	0.00	-578.78
37	141	0.00	222.14	0.00	0.00	0.00	578.78
37	140	0.00	-177.76	0.00	0.00	0.00	-178.87
38	140	0.00	177.76	0.00	0.00	0.00	178.87
38	139	0.00	-133.38	0.00	0.00	0.00	132.28
39	139	0.00	267.32	0.00	0.00	0.00	1071.80
39	138	0.00	-222.94	0.00	0.00	0.00	-581.55
40	138	0.00	222.94	0.00	0.00	0.00	581.55
40	137	0.00	-178.56	0.00	0.00	0.00	-180.05
41	137	0.00	178.56	0.00	0.00	0.00	180.05
41	136	0.00	-134.18	0.00	0.00	0.00	132.69
42	136	0.00	268.11	0.00	0.00	0.00	1071.96
42	135	0.00	-223.73	0.00	0.00	0.00	-580.12
43	135	0.00	223.73	0.00	0.00	0.00	580.12
43	134	0.00	-179.35	0.00	0.00	0.00	-177.04
44	134	0.00	179.35	0.00	0.00	0.00	177.04
44	133	0.00	-134.97	0.00	0.00	0.00	137.28
45	133	0.00	268.82	0.00	0.00	0.00	1065.99
45	131	0.00	-224.44	0.00	0.00	0.00	-572.72
46	131	0.00	268.01	0.00	0.00	0.00	1068.87
46	129	0.00	-220.39	0.00	0.00	0.00	-583.72
47	129	0.00	220.39	0.00	0.00	0.00	583.72
47	128	0.00	-176.01	0.00	0.00	0.00	-187.32
48	128	0.00	266.24	0.00	0.00	0.00	1068.81
48	127	0.00	-221.86	0.00	0.00	0.00	-580.71
49	127	0.00	221.86	0.00	0.00	0.00	580.71
49	126	0.00	-177.48	0.00	0.00	0.00	-181.37

50	126	0.00	177.48	0.00	0.00	0.00	181.37
50	125	0.00	-133.10	0.00	0.00	0.00	129.21
51	125	0.00	266.76	0.00	0.00	0.00	1073.65
51	124	0.00	-222.38	0.00	0.00	0.00	-584.51
52	124	0.00	222.38	0.00	0.00	0.00	584.51
52	123	0.00	-178.00	0.00	0.00	0.00	-184.12
53	123	0.00	178.00	0.00	0.00	0.00	184.12
53	122	0.00	-133.62	0.00	0.00	0.00	127.50
54	122	0.00	267.03	0.00	0.00	0.00	1074.36
54	121	0.00	-222.65	0.00	0.00	0.00	-584.68
55	121	0.00	222.65	0.00	0.00	0.00	584.68
55	120	0.00	-178.27	0.00	0.00	0.00	-183.77
56	120	0.00	178.27	0.00	0.00	0.00	183.77
56	119	0.00	-133.89	0.00	0.00	0.00	128.38
57	119	0.00	267.01	0.00	0.00	0.00	1071.00
57	117	0.00	-222.63	0.00	0.00	0.00	-581.35
58	117	0.00	255.07	0.00	0.00	0.00	1105.20
58	115	0.00	-207.45	0.00	0.00	0.00	-645.92
59	115	0.00	207.45	0.00	0.00	0.00	645.92
59	114	0.00	-163.07	0.00	0.00	0.00	-275.41
60	114	0.00	263.06	0.00	0.00	0.00	1077.67
60	113	0.00	-218.68	0.00	0.00	0.00	-595.93
61	113	0.00	218.68	0.00	0.00	0.00	595.93
61	112	0.00	-174.30	0.00	0.00	0.00	-202.94
62	112	0.00	174.30	0.00	0.00	0.00	202.94
62	111	0.00	-129.92	0.00	0.00	0.00	101.28
63	111	0.00	261.04	0.00	0.00	0.00	1089.61
63	110	0.00	-216.66	0.00	0.00	0.00	-611.91
64	110	0.00	216.66	0.00	0.00	0.00	611.91
64	109	0.00	-172.28	0.00	0.00	0.00	-222.97
65	109	0.00	172.28	0.00	0.00	0.00	222.97
65	108	0.00	-127.90	0.00	0.00	0.00	77.21
66	108	0.00	256.96	0.00	0.00	0.00	1103.06
66	107	0.00	-212.58	0.00	0.00	0.00	-633.51
67	107	0.00	212.58	0.00	0.00	0.00	633.51
67	106	0.00	-168.20	0.00	0.00	0.00	-252.73
68	106	0.00	168.20	0.00	0.00	0.00	252.73
68	105	0.00	-123.82	0.00	0.00	0.00	39.29
69	105	0.00	254.07	0.00	0.00	0.00	1119.74
69	103	0.00	-209.69	0.00	0.00	0.00	-655.98
70	103	0.00	209.69	0.00	0.00	0.00	655.98
70	101	0.00	-162.07	0.00	0.00	0.00	-287.44
71	101	0.00	162.07	0.00	0.00	0.00	287.44
71	100	0.00	-117.69	0.00	0.00	0.00	-7.68
72	100	0.00	257.26	0.00	0.00	0.00	1163.09
72	99	0.00	-212.88	0.00	0.00	0.00	-692.96
73	99	0.00	212.88	0.00	0.00	0.00	692.96
73	98	0.00	-168.50	0.00	0.00	0.00	-311.59
74	98	0.00	168.50	0.00	0.00	0.00	311.59
74	97	0.00	-124.12	0.00	0.00	0.00	-18.98
75	97	0.00	283.38	0.00	0.00	0.00	1243.09
75	96	0.00	-239.00	0.00	0.00	0.00	-720.71
76	96	0.00	239.00	0.00	0.00	0.00	720.71
76	95	0.00	-194.26	0.00	0.00	0.00	-287.44
77	95	0.00	194.26	0.00	0.00	0.00	287.44
77	94	0.00	-148.64	0.00	0.00	0.00	55.46
78	94	0.00	341.51	0.00	0.00	0.00	1380.86
78	93	0.00	-294.29	0.00	0.00	0.00	-745.05
79	93	0.00	294.29	0.00	0.00	0.00	745.05
79	92	0.00	-244.91	0.00	0.00	0.00	-205.85
80	92	0.00	244.91	0.00	0.00	0.00	205.85
80	91	0.00	-192.99	0.00	0.00	0.00	232.05
81	91	0.00	417.38	0.00	0.00	0.00	1532.63
81	89	0.00	-362.68	0.00	0.00	0.00	-752.57
82	89	0.00	982.98	0.00	0.00	0.00	4671.26
82	87	0.00	-917.54	0.00	0.00	0.00	-2778.66
83	87	0.00	917.54	0.00	0.00	0.00	2778.66
83	86	0.00	-857.36	0.00	0.00	0.00	-1003.77
84	86	0.00	992.67	0.00	0.00	0.00	4669.40
84	85	0.00	-926.37	0.00	0.00	0.00	-2750.35
85	85	0.00	926.37	0.00	0.00	0.00	2750.36
85	84	0.00	-845.45	0.00	0.00	0.00	-978.53
86	84	0.00	845.45	0.00	0.00	0.00	978.53
86	83	0.00	-754.83	0.00	0.00	0.00	621.76
87	83	0.00	973.39	0.00	0.00	0.00	4621.53
87	82	0.00	-882.77	0.00	0.00	0.00	-2765.36
88	82	0.00	882.77	0.00	0.00	0.00	2765.36
88	81	0.00	-792.15	0.00	0.00	0.00	-1090.43
89	81	0.00	792.15	0.00	0.00	0.00	1090.43
89	80	0.00	-701.53	0.00	0.00	0.00	403.27
90	80	0.00	931.41	0.00	0.00	0.00	4624.33
90	79	0.00	-840.79	0.00	0.00	0.00	-2852.13
91	79	0.00	840.79	0.00	0.00	0.00	2852.13
91	78	0.00	-750.17	0.00	0.00	0.00	-1261.18
92	78	0.00	750.17	0.00	0.00	0.00	1261.18
92	77	0.00	-659.55	0.00	0.00	0.00	148.54
93	77	0.00	897.22	0.00	0.00	0.00	4606.17
93	76	0.00	-806.60	0.00	0.00	0.00	-2902.33
94	76	0.00	806.60	0.00	0.00	0.00	2902.34
94	75	0.00	-715.98	0.00	0.00	0.00	-1379.74
95	75	0.00	715.98	0.00	0.00	0.00	1379.74
95	74	0.00	-625.36	0.00	0.00	0.00	-38.39
96	74	0.00	869.54	0.00	0.00	0.00	4518.00
96	73	0.00	-778.92	0.00	0.00	0.00	-2869.53
97	73	0.00	778.92	0.00	0.00	0.00	2869.53
97	72	0.00	-688.30	0.00	0.00	0.00	-1402.30
98	72	0.00	688.30	0.00	0.00	0.00	1402.31
98	71	0.00	-593.41	0.00	0.00	0.00	-118.45
99	71	0.00	843.75	0.00	0.00	0.00	4350.38
99	70	0.00	-744.59	0.00	0.00	0.00	-2762.05
100	70	0.00	744.59	0.00	0.00	0.00	2762.05
100	69	0.00	-645.43	0.00	0.00	0.00	-1372.03
101	69	0.00	645.43	0.00	0.00	0.00	1372.04
101	68	0.00	-546.27	0.00	0.00	0.00	-180.34
102	68	0.00	802.57	0.00	0.00	0.00	4204.31
102	66	0.00	-703.41	0.00	0.00	0.00	-2698.33
103	66	0.00	703.41	0.00	0.00	0.00	2698.33
103	64	0.00	-596.33	0.00	0.00	0.00	-1406.50
104	64	0.00	596.33	0.00	0.00	0.00	1406.50
104	63	0.00	-497.17	0.00	0.00	0.00	-313.01
105	63	0.00	758.43	0.00	0.00	0.00	4131.22
105	62	0.00	-659.27	0.00	0.00	0.00	-2713.53

106	62	0.00	659.27	0.00	0.00	0.00	2713.53
106	61	0.00	-560.11	0.00	0.00	0.00	-1494.16
107	61	0.00	560.11	0.00	0.00	0.00	1494.16
107	60	0.00	-465.22	0.00	0.00	0.00	-470.97
108	60	0.00	731.87	0.00	0.00	0.00	4122.20
108	59	0.00	-641.25	0.00	0.00	0.00	-2749.08
109	59	0.00	641.25	0.00	0.00	0.00	2749.08
109	58	0.00	-550.63	0.00	0.00	0.00	-1557.19
110	58	0.00	550.63	0.00	0.00	0.00	1557.20
110	57	0.00	-460.01	0.00	0.00	0.00	-546.55
111	57	0.00	852.50	0.00	0.00	0.00	6825.10
111	56	0.00	-761.88	0.00	0.00	0.00	-5210.72
112	56	0.00	761.88	0.00	0.00	0.00	5210.72
112	55	0.00	-671.26	0.00	0.00	0.00	-3777.57
113	55	0.00	671.26	0.00	0.00	0.00	3777.57
113	54	0.00	-580.64	0.00	0.00	0.00	-2525.67
114	54	0.00	1068.48	0.00	0.00	0.00	8751.29
114	53	0.00	-977.86	0.00	0.00	0.00	-6704.95
115	53	0.00	977.86	0.00	0.00	0.00	6704.95
115	52	0.00	-887.24	0.00	0.00	0.00	-4839.85
116	52	0.00	887.24	0.00	0.00	0.00	4839.85
116	51	0.00	-796.62	0.00	0.00	0.00	-3155.99
117	51	0.00	1251.55	0.00	0.00	0.00	10334.47
117	50	0.00	-1160.93	0.00	0.00	0.00	-7921.98
118	50	0.00	1160.93	0.00	0.00	0.00	7921.98
118	49	0.00	-1070.31	0.00	0.00	0.00	-5690.74
119	49	0.00	1070.31	0.00	0.00	0.00	5690.73
119	48	0.00	-979.69	0.00	0.00	0.00	-3640.73
120	48	0.00	1401.77	0.00	0.00	0.00	11577.49
120	47	0.00	-1311.15	0.00	0.00	0.00	-8864.57
121	47	0.00	1311.15	0.00	0.00	0.00	8864.57
121	46	0.00	-1220.53	0.00	0.00	0.00	-6332.89
122	46	0.00	1220.53	0.00	0.00	0.00	6332.89
122	45	0.00	-1129.91	0.00	0.00	0.00	-3982.45
123	45	0.00	1519.31	0.00	0.00	0.00	12491.04
123	44	0.00	-1428.69	0.00	0.00	0.00	-9543.04
124	44	0.00	1428.69	0.00	0.00	0.00	9543.04
124	43	0.00	-1338.07	0.00	0.00	0.00	-6776.28
125	43	0.00	1338.07	0.00	0.00	0.00	6776.28
125	42	0.00	-1247.45	0.00	0.00	0.00	-4190.76
126	42	0.00	1604.32	0.00	0.00	0.00	13084.06
126	41	0.00	-1513.70	0.00	0.00	0.00	-9966.05
127	41	0.00	1513.70	0.00	0.00	0.00	9966.05
127	40	0.00	-1423.08	0.00	0.00	0.00	-7029.27
128	40	0.00	1423.08	0.00	0.00	0.00	7029.26
128	39	0.00	-1328.19	0.00	0.00	0.00	-4275.87
129	39	0.00	1652.37	0.00	0.00	0.00	13349.17
129	38	0.00	-1553.21	0.00	0.00	0.00	-10143.59
130	38	0.00	1553.21	0.00	0.00	0.00	10143.58
130	37	0.00	-1454.05	0.00	0.00	0.00	-7136.33
131	37	0.00	1454.05	0.00	0.00	0.00	7136.32
131	36	0.00	-1354.89	0.00	0.00	0.00	-4327.38
132	36	0.00	1648.80	0.00	0.00	0.00	13529.26
132	34	0.00	-1549.64	0.00	0.00	0.00	-10330.82
133	34	0.00	2661.16	0.00	0.00	0.00	74800.78
133	32	0.00	-2554.08	0.00	0.00	0.00	-69593.42
134	32	0.00	2554.08	0.00	0.00	0.00	69593.45
134	31	0.00	-2454.92	0.00	0.00	0.00	-64584.40
135	31	0.00	2454.92	0.00	0.00	0.00	64584.09
135	30	0.00	-2355.76	0.00	0.00	0.00	-59773.40
136	30	0.00	2355.76	0.00	0.00	0.00	59773.69
136	29	0.00	-2255.44	0.00	0.00	0.00	-55162.41
137	29	0.00	2255.45	0.00	0.00	0.00	55162.40
137	28	0.00	-2156.88	0.00	0.00	0.00	-50753.34
138	28	0.00	2156.87	0.00	0.00	0.00	50753.08
138	27	0.00	-2066.25	0.00	0.00	0.00	-46529.96
139	27	0.00	2066.25	0.00	0.00	0.00	46529.62
139	26	0.00	-1974.47	0.00	0.00	0.00	-42488.83
140	26	0.00	1974.47	0.00	0.00	0.00	42489.13
140	25	0.00	-1880.18	0.00	0.00	0.00	-38635.58
141	25	0.00	1880.17	0.00	0.00	0.00	38635.67
141	24	0.00	-1789.55	0.00	0.00	0.00	-34965.82
142	24	0.00	1789.55	0.00	0.00	0.00	34965.89
142	23	0.00	-1697.77	0.00	0.00	0.00	-31478.50
143	23	0.00	1697.78	0.00	0.00	0.00	31478.66
143	22	0.00	-1603.48	0.00	0.00	0.00	-28178.66
144	22	0.00	1603.47	0.00	0.00	0.00	28178.36
144	21	0.00	-1512.85	0.00	0.00	0.00	-25062.04
145	21	0.00	1512.85	0.00	0.00	0.00	25061.82
145	20	0.00	-1421.07	0.00	0.00	0.00	-22127.76
146	20	0.00	1421.08	0.00	0.00	0.00	22127.77
146	19	0.00	-1326.78	0.00	0.00	0.00	-19381.11
147	19	0.00	1326.78	0.00	0.00	0.00	19381.46
147	18	0.00	-1236.16	0.00	0.00	0.00	-16818.47
148	18	0.00	1236.16	0.00	0.00	0.00	16818.41
148	17	0.00	-1144.38	0.00	0.00	0.00	-14437.96
149	17	0.00	1144.38	0.00	0.00	0.00	14437.42
149	16	0.00	-1050.08	0.00	0.00	0.00	-12244.13
150	16	0.00	1050.08	0.00	0.00	0.00	12244.40
150	15	0.00	-959.46	0.00	0.00	0.00	-10234.81
151	15	0.00	959.46	0.00	0.00	0.00	10234.95
151	14	0.00	-867.68	0.00	0.00	0.00	-8407.77
152	14	0.00	867.68	0.00	0.00	0.00	8407.69
152	13	0.00	-773.38	0.00	0.00	0.00	-6767.77
153	13	0.00	773.39	0.00	0.00	0.00	6767.62
153	12	0.00	-682.77	0.00	0.00	0.00	-5311.49
154	12	0.00	682.76	0.00	0.00	0.00	5311.52
154	11	0.00	-592.14	0.00	0.00	0.00	-4036.54
155	11	0.00	592.14	0.00	0.00	0.00	4036.76
155	10	0.00	-501.52	0.00	0.00	0.00	-2943.00
156	10	0.00	501.53	0.00	0.00	0.00	2943.11
156	9	0.00	-410.91	0.00	0.00	0.00	-2030.54
157	9	0.00	410.92	0.00	0.00	0.00	2030.54
157	8	0.00	-320.30	0.00	0.00	0.00	-1299.29
158	8	0.00	320.28	0.00	0.00	0.00	1299.25
158	7	0.00	-229.66	0.00	0.00	0.00	-749.31
159	7	0.00	229.66	0.00	0.00	0.00	749.34
159	6	0.00	-139.04	0.00	0.00	0.00	-380.57
160	6	0.00	139.05	0.00	0.00	0.00	380.62
160	5	0.00	-48.43	0.00	0.00	0.00	-193.08

procr Puente sobre el Ebro (E1 a E2)

HIPOTESIS 124

FUER Y MIN (Envolv. de Proceso)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	182	0.00	47.62	0.00	0.00	0.00	-50.86
2	182	0.00	-47.62	0.00	0.00	0.00	50.86
2	181	0.00	92.00	0.00	0.00	0.00	-190.48
3	181	0.00	-92.00	0.00	0.00	0.00	190.48
3	180	0.00	136.38	0.00	0.00	0.00	-418.86
4	180	0.00	-136.38	0.00	0.00	0.00	418.86
4	179	0.00	180.76	0.00	0.00	0.00	-736.00
5	179	0.00	-75.80	0.00	0.00	0.00	106.25
5	178	0.00	120.18	0.00	0.00	0.00	-302.23
6	178	0.00	-60.99	0.00	0.00	0.00	-499.61
6	177	0.00	105.37	0.00	0.00	0.00	333.26
7	177	0.00	-105.37	0.00	0.00	0.00	-333.26
7	176	0.00	149.75	0.00	0.00	0.00	78.14
8	176	0.00	-149.75	0.00	0.00	0.00	-78.14
8	175	0.00	194.13	0.00	0.00	0.00	-265.74
9	175	0.00	-194.13	0.00	0.00	0.00	265.74
9	173	0.00	238.51	0.00	0.00	0.00	-698.38
10	173	0.00	-140.94	0.00	0.00	0.00	-11.05
10	171	0.00	188.56	0.00	0.00	0.00	-321.67
11	171	0.00	-188.56	0.00	0.00	0.00	321.67
11	170	0.00	232.94	0.00	0.00	0.00	-743.16
12	170	0.00	-93.98	0.00	0.00	0.00	-193.65
12	169	0.00	138.36	0.00	0.00	0.00	-38.69
13	169	0.00	-138.36	0.00	0.00	0.00	38.69
13	168	0.00	182.74	0.00	0.00	0.00	-359.78
14	168	0.00	-182.74	0.00	0.00	0.00	359.78
14	167	0.00	227.12	0.00	0.00	0.00	-769.64
15	167	0.00	-77.16	0.00	0.00	0.00	-17.22
15	166	0.00	121.54	0.00	0.00	0.00	-181.48
16	166	0.00	-121.54	0.00	0.00	0.00	181.48
16	165	0.00	165.92	0.00	0.00	0.00	-468.94
17	165	0.00	-165.92	0.00	0.00	0.00	468.94
17	164	0.00	210.30	0.00	0.00	0.00	-845.16
18	164	0.00	-102.45	0.00	0.00	0.00	-502.68
18	163	0.00	146.83	0.00	0.00	0.00	253.39
19	163	0.00	-146.83	0.00	0.00	0.00	-253.39
19	162	0.00	191.21	0.00	0.00	0.00	-84.66
20	162	0.00	-191.21	0.00	0.00	0.00	84.66
20	161	0.00	235.59	0.00	0.00	0.00	-511.47
21	161	0.00	-235.59	0.00	0.00	0.00	511.47
21	159	0.00	279.97	0.00	0.00	0.00	-1027.03
22	159	0.00	-189.20	0.00	0.00	0.00	89.23
22	157	0.00	236.82	0.00	0.00	0.00	-518.49
23	157	0.00	-236.82	0.00	0.00	0.00	518.49
23	156	0.00	281.20	0.00	0.00	0.00	-1036.52
24	156	0.00	-146.42	0.00	0.00	0.00	-235.01
24	155	0.00	190.80	0.00	0.00	0.00	-102.20
25	155	0.00	-190.80	0.00	0.00	0.00	102.20
25	154	0.00	235.18	0.00	0.00	0.00	-528.17
26	154	0.00	-235.18	0.00	0.00	0.00	528.17
26	153	0.00	279.56	0.00	0.00	0.00	-1042.91
27	153	0.00	-142.76	0.00	0.00	0.00	-205.93
27	152	0.00	187.14	0.00	0.00	0.00	-123.96
28	152	0.00	-187.14	0.00	0.00	0.00	123.96
28	151	0.00	231.52	0.00	0.00	0.00	-542.62
29	151	0.00	-231.52	0.00	0.00	0.00	542.62
29	150	0.00	275.90	0.00	0.00	0.00	-1050.03
30	150	0.00	-143.75	0.00	0.00	0.00	-222.51
30	149	0.00	188.13	0.00	0.00	0.00	-109.36
31	149	0.00	-188.13	0.00	0.00	0.00	109.36
31	148	0.00	232.51	0.00	0.00	0.00	-529.99
32	148	0.00	-232.51	0.00	0.00	0.00	529.99
32	147	0.00	276.89	0.00	0.00	0.00	-1039.39
33	147	0.00	-223.34	0.00	0.00	0.00	570.54
33	145	0.00	267.72	0.00	0.00	0.00	-1061.60
34	145	0.00	-187.40	0.00	0.00	0.00	101.57
34	143	0.00	235.02	0.00	0.00	0.00	-527.22
35	143	0.00	-235.02	0.00	0.00	0.00	527.22
35	142	0.00	279.40	0.00	0.00	0.00	-1041.64
36	142	0.00	-145.46	0.00	0.00	0.00	-226.47
36	141	0.00	189.84	0.00	0.00	0.00	-108.84
37	141	0.00	-189.84	0.00	0.00	0.00	108.84
37	140	0.00	234.22	0.00	0.00	0.00	-532.91
38	140	0.00	-234.22	0.00	0.00	0.00	532.91
38	139	0.00	278.60	0.00	0.00	0.00	-1045.73
39	139	0.00	-144.67	0.00	0.00	0.00	-222.37
39	138	0.00	189.05	0.00	0.00	0.00	-111.35
40	138	0.00	-189.05	0.00	0.00	0.00	111.35
40	137	0.00	233.43	0.00	0.00	0.00	-533.82
41	137	0.00	-233.43	0.00	0.00	0.00	533.82
41	136	0.00	277.81	0.00	0.00	0.00	-1045.06
42	136	0.00	-143.80	0.00	0.00	0.00	-222.42
42	135	0.00	188.18	0.00	0.00	0.00	-109.57
43	135	0.00	-188.18	0.00	0.00	0.00	109.57
43	134	0.00	232.56	0.00	0.00	0.00	-530.31
44	134	0.00	-232.56	0.00	0.00	0.00	530.31
44	133	0.00	276.94	0.00	0.00	0.00	-1039.81
45	133	0.00	-222.20	0.00	0.00	0.00	580.08
45	131	0.00	266.58	0.00	0.00	0.00	-1068.87
46	131	0.00	-187.37	0.00	0.00	0.00	102.79
46	129	0.00	234.99	0.00	0.00	0.00	-528.38
47	129	0.00	-234.99	0.00	0.00	0.00	528.38
47	128	0.00	279.37	0.00	0.00	0.00	-1042.73
48	128	0.00	-145.51	0.00	0.00	0.00	-225.05
48	127	0.00	189.89	0.00	0.00	0.00	-110.35
49	127	0.00	-189.89	0.00	0.00	0.00	110.35
49	126	0.00	234.27	0.00	0.00	0.00	-534.51
50	126	0.00	-234.27	0.00	0.00	0.00	534.51

50	125	0.00	278.65	0.00	0.00	0.00	-1047.43
51	125	0.00	-144.77	0.00	0.00	0.00	-219.90
51	124	0.00	189.15	0.00	0.00	0.00	-114.01
52	124	0.00	-189.15	0.00	0.00	0.00	114.01
52	123	0.00	233.53	0.00	0.00	0.00	-536.69
53	123	0.00	-233.53	0.00	0.00	0.00	536.69
53	122	0.00	277.91	0.00	0.00	0.00	-1048.12
54	122	0.00	-143.99	0.00	0.00	0.00	-218.49
54	121	0.00	188.37	0.00	0.00	0.00	-113.87
55	121	0.00	-188.37	0.00	0.00	0.00	113.87
55	120	0.00	232.75	0.00	0.00	0.00	-534.99
56	120	0.00	-232.75	0.00	0.00	0.00	534.99
56	119	0.00	277.13	0.00	0.00	0.00	-1044.87
57	119	0.00	-223.41	0.00	0.00	0.00	613.99
57	117	0.00	267.79	0.00	0.00	0.00	-1105.20
58	117	0.00	-187.70	0.00	0.00	0.00	110.34
58	115	0.00	235.32	0.00	0.00	0.00	-536.59
59	115	0.00	-235.32	0.00	0.00	0.00	536.59
59	114	0.00	279.70	0.00	0.00	0.00	-1051.61
60	114	0.00	-146.10	0.00	0.00	0.00	-212.64
60	113	0.00	190.48	0.00	0.00	0.00	-123.95
61	113	0.00	-190.48	0.00	0.00	0.00	123.95
61	112	0.00	234.86	0.00	0.00	0.00	-549.29
62	112	0.00	-234.86	0.00	0.00	0.00	549.29
62	111	0.00	279.24	0.00	0.00	0.00	-1063.40
63	111	0.00	-145.86	0.00	0.00	0.00	-197.20
63	110	0.00	190.24	0.00	0.00	0.00	-138.89
64	110	0.00	-190.24	0.00	0.00	0.00	138.89
64	109	0.00	234.62	0.00	0.00	0.00	-563.75
65	109	0.00	-234.62	0.00	0.00	0.00	563.75
65	108	0.00	279.00	0.00	0.00	0.00	-1077.36
66	108	0.00	-145.82	0.00	0.00	0.00	-180.30
66	107	0.00	190.20	0.00	0.00	0.00	-155.72
67	107	0.00	-190.20	0.00	0.00	0.00	155.72
67	106	0.00	234.58	0.00	0.00	0.00	-580.50
68	106	0.00	-234.58	0.00	0.00	0.00	580.50
68	105	0.00	278.96	0.00	0.00	0.00	-1094.04
69	105	0.00	-236.35	0.00	0.00	0.00	934.98
69	103	0.00	280.73	0.00	0.00	0.00	-1452.06
70	103	0.00	-192.21	0.00	0.00	0.00	518.93
70	101	0.00	239.83	0.00	0.00	0.00	-954.20
71	101	0.00	-239.83	0.00	0.00	0.00	954.20
71	100	0.00	284.21	0.00	0.00	0.00	-1478.24
72	100	0.00	-152.51	0.00	0.00	0.00	228.05
72	99	0.00	196.89	0.00	0.00	0.00	-577.44
73	99	0.00	-196.89	0.00	0.00	0.00	577.44
73	98	0.00	241.27	0.00	0.00	0.00	-1015.59
74	98	0.00	-241.27	0.00	0.00	0.00	1015.59
74	97	0.00	285.65	0.00	0.00	0.00	-1542.50
75	97	0.00	-156.16	0.00	0.00	0.00	325.52
75	96	0.00	200.54	0.00	0.00	0.00	-682.21
76	96	0.00	-200.54	0.00	0.00	0.00	682.21
76	95	0.00	245.28	0.00	0.00	0.00	-1128.03
77	95	0.00	-245.28	0.00	0.00	0.00	1128.03
77	94	0.00	290.90	0.00	0.00	0.00	-1664.20
78	94	0.00	-220.62	0.00	0.00	0.00	2118.40
78	93	0.00	267.84	0.00	0.00	0.00	-2606.86
79	93	0.00	-267.84	0.00	0.00	0.00	2606.86
79	92	0.00	317.22	0.00	0.00	0.00	-3191.92
80	92	0.00	-317.22	0.00	0.00	0.00	3191.92
80	91	0.00	369.14	0.00	0.00	0.00	-3878.28
81	91	0.00	-369.14	0.00	0.00	0.00	3878.28
81	89	0.00	423.84	0.00	0.00	0.00	-4671.26
82	89	0.00	-325.74	0.00	0.00	0.00	3102.02
82	87	0.00	391.18	0.00	0.00	0.00	-3826.86
83	87	0.00	-391.18	0.00	0.00	0.00	3826.85
83	86	0.00	451.36	0.00	0.00	0.00	-4669.40
84	86	0.00	-286.45	0.00	0.00	0.00	2237.96
84	85	0.00	352.75	0.00	0.00	0.00	-2877.15
85	85	0.00	-352.75	0.00	0.00	0.00	2877.15
85	84	0.00	433.67	0.00	0.00	0.00	-3663.57
86	84	0.00	-433.67	0.00	0.00	0.00	3663.57
86	83	0.00	524.29	0.00	0.00	0.00	-4621.53
87	83	0.00	-326.74	0.00	0.00	0.00	1848.33
87	82	0.00	417.36	0.00	0.00	0.00	-2592.42
88	82	0.00	-417.36	0.00	0.00	0.00	2592.42
88	81	0.00	507.98	0.00	0.00	0.00	-3517.76
89	81	0.00	-507.98	0.00	0.00	0.00	3517.76
89	80	0.00	598.60	0.00	0.00	0.00	-4624.33
90	80	0.00	-366.92	0.00	0.00	0.00	1589.08
90	79	0.00	457.54	0.00	0.00	0.00	-2413.53
91	79	0.00	-457.54	0.00	0.00	0.00	2413.53
91	78	0.00	548.16	0.00	0.00	0.00	-3419.23
92	78	0.00	-548.16	0.00	0.00	0.00	3419.23
92	77	0.00	638.78	0.00	0.00	0.00	-4606.17
93	77	0.00	-378.30	0.00	0.00	0.00	1432.60
93	76	0.00	468.92	0.00	0.00	0.00	-2279.83
94	76	0.00	-468.92	0.00	0.00	0.00	2279.83
94	75	0.00	559.54	0.00	0.00	0.00	-3308.29
95	75	0.00	-559.54	0.00	0.00	0.00	3308.29
95	74	0.00	650.16	0.00	0.00	0.00	-4518.00
96	74	0.00	-369.99	0.00	0.00	0.00	1312.73
96	73	0.00	460.61	0.00	0.00	0.00	-2143.33
97	73	0.00	-460.61	0.00	0.00	0.00	2143.33
97	72	0.00	551.23	0.00	0.00	0.00	-3155.17
98	72	0.00	-551.23	0.00	0.00	0.00	3155.17
98	71	0.00	646.12	0.00	0.00	0.00	-4350.38
99	71	0.00	-472.19	0.00	0.00	0.00	-5292.47
99	70	0.00	571.35	0.00	0.00	0.00	4248.92
100	70	0.00	-571.35	0.00	0.00	0.00	-4248.92
100	69	0.00	670.51	0.00	0.00	0.00	3007.05
101	69	0.00	-670.51	0.00	0.00	0.00	-3007.05
101	68	0.00	769.67	0.00	0.00	0.00	1566.86
102	68	0.00	-769.67	0.00	0.00	0.00	-1566.86
102	66	0.00	868.83	0.00	0.00	0.00	-71.65
103	66	0.00	-733.52	0.00	0.00	0.00	-1404.71
103	64	0.00	840.60	0.00	0.00	0.00	-177.33
104	64	0.00	-840.60	0.00	0.00	0.00	177.33
104	63	0.00	939.76	0.00	0.00	0.00	-1957.68
105	63	0.00	-721.20	0.00	0.00	0.00	-667.32
105	62	0.00	820.36	0.00	0.00	0.00	-874.23
106	62	0.00	-820.36	0.00	0.00	0.00	874.23

106	61	0.00	919.52	0.00	0.00	0.00	-2614.10
107	61	0.00	-919.52	0.00	0.00	0.00	2614.10
107	60	0.00	1014.41	0.00	0.00	0.00	-4550.16
108	60	0.00	-784.53	0.00	0.00	0.00	1302.32
108	59	0.00	875.15	0.00	0.00	0.00	-2962.01
109	59	0.00	-875.15	0.00	0.00	0.00	2962.01
109	58	0.00	965.77	0.00	0.00	0.00	-4802.94
110	58	0.00	-965.77	0.00	0.00	0.00	4802.93
110	57	0.00	1056.39	0.00	0.00	0.00	-6825.10
111	57	0.00	-818.72	0.00	0.00	0.00	3023.41
111	56	0.00	909.34	0.00	0.00	0.00	-4751.47
112	56	0.00	-909.34	0.00	0.00	0.00	4751.46
112	55	0.00	999.96	0.00	0.00	0.00	-6660.76
113	55	0.00	-999.96	0.00	0.00	0.00	6660.76
113	54	0.00	1090.58	0.00	0.00	0.00	-8751.29
114	54	0.00	-883.01	0.00	0.00	0.00	8359.90
114	53	0.00	973.63	0.00	0.00	0.00	-10216.54
115	53	0.00	-973.63	0.00	0.00	0.00	10216.54
115	52	0.00	1064.25	0.00	0.00	0.00	-12254.42
116	52	0.00	-1064.25	0.00	0.00	0.00	12254.42
116	51	0.00	1154.87	0.00	0.00	0.00	-14473.53
117	51	0.00	-1154.87	0.00	0.00	0.00	14473.53
117	50	0.00	1245.49	0.00	0.00	0.00	-16873.89
118	50	0.00	-1245.49	0.00	0.00	0.00	16873.89
118	49	0.00	1336.11	0.00	0.00	0.00	-19455.49
119	49	0.00	-1336.11	0.00	0.00	0.00	19455.49
119	48	0.00	1426.73	0.00	0.00	0.00	-22218.32
120	48	0.00	-1426.73	0.00	0.00	0.00	22218.32
120	47	0.00	1517.35	0.00	0.00	0.00	-25162.39
121	47	0.00	-1517.35	0.00	0.00	0.00	25162.39
121	46	0.00	1607.97	0.00	0.00	0.00	-28287.71
122	46	0.00	-1607.97	0.00	0.00	0.00	28287.71
122	45	0.00	1698.59	0.00	0.00	0.00	-31594.25
123	45	0.00	-1698.59	0.00	0.00	0.00	31594.26
123	44	0.00	1789.21	0.00	0.00	0.00	-35082.04
124	44	0.00	-1789.21	0.00	0.00	0.00	35082.05
124	43	0.00	1879.83	0.00	0.00	0.00	-38751.08
125	43	0.00	-1879.83	0.00	0.00	0.00	38751.07
125	42	0.00	1970.45	0.00	0.00	0.00	-42601.35
126	42	0.00	-1970.45	0.00	0.00	0.00	42601.34
126	41	0.00	2061.07	0.00	0.00	0.00	-46632.86
127	41	0.00	-2061.07	0.00	0.00	0.00	46632.85
127	40	0.00	2151.69	0.00	0.00	0.00	-50845.60
128	40	0.00	-2151.69	0.00	0.00	0.00	50845.60
128	39	0.00	2246.58	0.00	0.00	0.00	-55241.70
129	39	0.00	-2246.58	0.00	0.00	0.00	55241.71
129	38	0.00	2345.74	0.00	0.00	0.00	-59834.01
130	38	0.00	-2345.74	0.00	0.00	0.00	59833.99
130	37	0.00	2444.90	0.00	0.00	0.00	-64624.63
131	37	0.00	-2444.90	0.00	0.00	0.00	64624.63
131	36	0.00	2544.06	0.00	0.00	0.00	-69613.54
132	36	0.00	-2544.06	0.00	0.00	0.00	69613.55
132	34	0.00	2643.22	0.00	0.00	0.00	-74800.77
133	34	0.00	-2347.29	0.00	0.00	0.00	54766.64
133	32	0.00	2454.37	0.00	0.00	0.00	-59576.20
134	32	0.00	-2454.37	0.00	0.00	0.00	59576.19
134	31	0.00	2553.53	0.00	0.00	0.00	-64584.07
135	31	0.00	-1910.34	0.00	0.00	0.00	38392.16
135	30	0.00	2009.50	0.00	0.00	0.00	-42311.98
136	30	0.00	-2009.50	0.00	0.00	0.00	42312.00
136	29	0.00	2109.82	0.00	0.00	0.00	-46431.24
137	29	0.00	-2109.82	0.00	0.00	0.00	46431.25
137	28	0.00	2208.39	0.00	0.00	0.00	-50752.75
138	28	0.00	-1683.86	0.00	0.00	0.00	27708.08
138	27	0.00	1774.48	0.00	0.00	0.00	-31166.42
139	27	0.00	-1774.48	0.00	0.00	0.00	31166.42
139	26	0.00	1866.26	0.00	0.00	0.00	-34807.11
140	26	0.00	-1866.26	0.00	0.00	0.00	34807.10
140	25	0.00	1960.56	0.00	0.00	0.00	-38635.11
141	25	0.00	-1472.72	0.00	0.00	0.00	18517.54
141	24	0.00	1563.34	0.00	0.00	0.00	-21553.61
142	24	0.00	-1563.34	0.00	0.00	0.00	21553.60
142	23	0.00	1655.12	0.00	0.00	0.00	-24772.03
143	23	0.00	-1655.12	0.00	0.00	0.00	24772.02
143	22	0.00	1749.42	0.00	0.00	0.00	-28177.75
144	22	0.00	-1294.49	0.00	0.00	0.00	10789.86
144	21	0.00	1385.11	0.00	0.00	0.00	-13469.45
145	21	0.00	-1385.11	0.00	0.00	0.00	13469.45
145	20	0.00	1476.89	0.00	0.00	0.00	-16331.42
146	20	0.00	-1476.89	0.00	0.00	0.00	16331.42
146	19	0.00	1571.19	0.00	0.00	0.00	-19380.68
147	19	0.00	-1149.11	0.00	0.00	0.00	4525.30
147	18	0.00	1239.73	0.00	0.00	0.00	-6914.14
148	18	0.00	-1239.73	0.00	0.00	0.00	6914.14
148	17	0.00	1331.51	0.00	0.00	0.00	-9485.35
149	17	0.00	-1331.51	0.00	0.00	0.00	9485.36
149	16	0.00	1425.81	0.00	0.00	0.00	-12243.87
150	16	0.00	-1036.41	0.00	0.00	0.00	-275.08
150	15	0.00	1127.03	0.00	0.00	0.00	-1888.36
151	15	0.00	-1127.03	0.00	0.00	0.00	1888.36
151	14	0.00	1218.81	0.00	0.00	0.00	-4234.18
152	14	0.00	-1218.81	0.00	0.00	0.00	4234.18
152	13	0.00	1313.11	0.00	0.00	0.00	-6767.30
153	13	0.00	-956.24	0.00	0.00	0.00	-3610.41
153	12	0.00	1046.86	0.00	0.00	0.00	1607.31
154	12	0.00	-1046.86	0.00	0.00	0.00	-1607.30
154	11	0.00	1137.48	0.00	0.00	0.00	-577.06
155	11	0.00	-1137.48	0.00	0.00	0.00	577.04
155	10	0.00	1228.10	0.00	0.00	0.00	-2942.65
156	10	0.00	-903.92	0.00	0.00	0.00	-5489.95
156	9	0.00	994.54	0.00	0.00	0.00	3591.49
157	9	0.00	-994.54	0.00	0.00	0.00	-3591.49
157	8	0.00	1085.16	0.00	0.00	0.00	1511.78
158	8	0.00	-1085.16	0.00	0.00	0.00	-1511.78
158	7	0.00	1175.78	0.00	0.00	0.00	-749.18
159	7	0.00	-881.87	0.00	0.00	0.00	-5919.98
159	6	0.00	972.49	0.00	0.00	0.00	4065.62
160	6	0.00	-972.49	0.00	0.00	0.00	-4065.60
160	5	0.00	1063.11	0.00	0.00	0.00	2030.00

procr Puente sobre el Ebro (E2 a E1)

HIPOTESIS 123

FUER Y MAX (Envolv. de Proceso)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	121	0.00	562.49	0.00	0.00	0.00	0.00
1	119	0.00	-498.49	0.00	0.00	0.00	1053.06
2	119	0.00	498.49	0.00	0.00	0.00	-1053.06
2	118	0.00	-437.99	0.00	0.00	0.00	1989.53
3	118	0.00	630.60	0.00	0.00	0.00	260.42
3	117	0.00	-563.84	0.00	0.00	0.00	934.04
4	117	0.00	563.84	0.00	0.00	0.00	-934.04
4	116	0.00	-482.34	0.00	0.00	0.00	1980.22
5	116	0.00	482.34	0.00	0.00	0.00	-1980.22
5	115	0.00	-391.72	0.00	0.00	0.00	2854.29
6	115	0.00	748.94	0.00	0.00	0.00	2910.16
6	114	0.00	-658.32	0.00	0.00	0.00	-1502.89
7	114	0.00	658.32	0.00	0.00	0.00	1502.89
7	113	0.00	-567.70	0.00	0.00	0.00	-276.86
8	113	0.00	567.70	0.00	0.00	0.00	276.86
8	112	0.00	-477.08	0.00	0.00	0.00	767.93
9	112	0.00	775.77	0.00	0.00	0.00	3229.97
9	111	0.00	-685.15	0.00	0.00	0.00	-1769.05
10	111	0.00	685.15	0.00	0.00	0.00	1769.05
10	110	0.00	-594.53	0.00	0.00	0.00	-489.38
11	110	0.00	594.53	0.00	0.00	0.00	489.38
11	109	0.00	-503.91	0.00	0.00	0.00	609.06
12	109	0.00	804.00	0.00	0.00	0.00	3599.88
12	108	0.00	-713.38	0.00	0.00	0.00	-2082.49
13	108	0.00	713.38	0.00	0.00	0.00	2082.49
13	107	0.00	-622.76	0.00	0.00	0.00	-746.34
14	107	0.00	622.76	0.00	0.00	0.00	746.34
14	106	0.00	-532.14	0.00	0.00	0.00	408.56
15	106	0.00	825.53	0.00	0.00	0.00	3709.42
15	105	0.00	-734.91	0.00	0.00	0.00	-2148.98
16	105	0.00	734.91	0.00	0.00	0.00	2148.98
16	104	0.00	-644.29	0.00	0.00	0.00	-769.77
17	104	0.00	644.29	0.00	0.00	0.00	769.77
17	103	0.00	-549.40	0.00	0.00	0.00	426.06
18	103	0.00	839.43	0.00	0.00	0.00	3693.56
18	102	0.00	-740.27	0.00	0.00	0.00	-2113.86
19	102	0.00	740.27	0.00	0.00	0.00	2113.86
19	101	0.00	-641.11	0.00	0.00	0.00	-732.47
20	101	0.00	641.11	0.00	0.00	0.00	732.47
20	100	0.00	-541.95	0.00	0.00	0.00	450.60
21	100	0.00	827.81	0.00	0.00	0.00	3630.57
21	98	0.00	-728.65	0.00	0.00	0.00	-2074.11
22	98	0.00	1560.64	0.00	0.00	0.00	13051.75
22	96	0.00	-1453.56	0.00	0.00	0.00	-10045.45
23	96	0.00	1453.56	0.00	0.00	0.00	10045.45
23	95	0.00	-1354.41	0.00	0.00	0.00	-7237.48
24	95	0.00	1507.29	0.00	0.00	0.00	12797.04
24	94	0.00	-1408.13	0.00	0.00	0.00	-9881.62
25	94	0.00	1408.13	0.00	0.00	0.00	9881.62
25	93	0.00	-1308.97	0.00	0.00	0.00	-7164.52
26	93	0.00	1308.97	0.00	0.00	0.00	7164.53
26	92	0.00	-1214.08	0.00	0.00	0.00	-4643.62
27	92	0.00	1442.74	0.00	0.00	0.00	12265.74
27	91	0.00	-1352.12	0.00	0.00	0.00	-9470.88
28	91	0.00	1352.12	0.00	0.00	0.00	9470.88
28	90	0.00	-1261.50	0.00	0.00	0.00	-6857.26
29	90	0.00	1261.50	0.00	0.00	0.00	6857.26
29	89	0.00	-1170.88	0.00	0.00	0.00	-4424.88
30	89	0.00	1408.64	0.00	0.00	0.00	11967.62
30	88	0.00	-1318.02	0.00	0.00	0.00	-9240.96
31	88	0.00	1318.02	0.00	0.00	0.00	9240.96
31	87	0.00	-1227.40	0.00	0.00	0.00	-6695.53
32	87	0.00	1227.40	0.00	0.00	0.00	6695.54
32	86	0.00	-1136.78	0.00	0.00	0.00	-4331.35
33	86	0.00	1379.98	0.00	0.00	0.00	11660.31
33	85	0.00	-1289.36	0.00	0.00	0.00	-8990.97
34	85	0.00	1289.36	0.00	0.00	0.00	8990.97
34	84	0.00	-1198.74	0.00	0.00	0.00	-6502.87
35	84	0.00	1198.74	0.00	0.00	0.00	6502.87
35	83	0.00	-1108.12	0.00	0.00	0.00	-4196.00
36	83	0.00	1357.36	0.00	0.00	0.00	11374.29
36	82	0.00	-1266.74	0.00	0.00	0.00	-8750.19
37	82	0.00	1266.74	0.00	0.00	0.00	8750.18
37	81	0.00	-1176.12	0.00	0.00	0.00	-6307.32
38	81	0.00	1176.12	0.00	0.00	0.00	6307.32
38	80	0.00	-1085.50	0.00	0.00	0.00	-4045.70
39	80	0.00	1340.66	0.00	0.00	0.00	11101.84
39	79	0.00	-1250.04	0.00	0.00	0.00	-8511.14
40	79	0.00	1250.04	0.00	0.00	0.00	8511.14
40	78	0.00	-1159.42	0.00	0.00	0.00	-6101.68
41	78	0.00	1159.42	0.00	0.00	0.00	6101.68
41	77	0.00	-1068.80	0.00	0.00	0.00	-3873.47
42	77	0.00	1330.18	0.00	0.00	0.00	10857.23
42	76	0.00	-1239.56	0.00	0.00	0.00	-8287.50
43	76	0.00	1239.56	0.00	0.00	0.00	8287.50
43	75	0.00	-1148.94	0.00	0.00	0.00	-5899.01
44	75	0.00	1148.94	0.00	0.00	0.00	5899.01
44	74	0.00	-1058.32	0.00	0.00	0.00	-3691.76
45	74	0.00	1326.20	0.00	0.00	0.00	10653.16
45	73	0.00	-1235.58	0.00	0.00	0.00	-8091.38
46	73	0.00	1235.58	0.00	0.00	0.00	8091.38
46	72	0.00	-1144.96	0.00	0.00	0.00	-5710.84
47	72	0.00	1144.96	0.00	0.00	0.00	5710.84
47	71	0.00	-1050.07	0.00	0.00	0.00	-3513.68
48	71	0.00	1324.28	0.00	0.00	0.00	10479.60
48	70	0.00	-1225.12	0.00	0.00	0.00	-7930.19
49	70	0.00	1225.12	0.00	0.00	0.00	7930.19
49	69	0.00	-1125.96	0.00	0.00	0.00	-5579.10

50	69	0.00	1125.96	0.00	0.00	0.00	5579.10
50	68	0.00	-1026.80	0.00	0.00	0.00	-3426.33
51	68	0.00	1305.29	0.00	0.00	0.00	10389.86
51	66	0.00	-1206.13	0.00	0.00	0.00	-7878.43
52	66	0.00	1206.13	0.00	0.00	0.00	7878.43
52	64	0.00	-1099.05	0.00	0.00	0.00	-5581.16
53	64	0.00	1099.05	0.00	0.00	0.00	5581.16
53	63	0.00	-999.89	0.00	0.00	0.00	-3482.21
54	63	0.00	1274.87	0.00	0.00	0.00	10377.98
54	62	0.00	-1175.71	0.00	0.00	0.00	-7927.39
55	62	0.00	1175.71	0.00	0.00	0.00	7927.40
55	61	0.00	-1076.55	0.00	0.00	0.00	-5675.13
56	61	0.00	1076.55	0.00	0.00	0.00	5675.13
56	60	0.00	-981.66	0.00	0.00	0.00	-3619.05
57	60	0.00	981.66	0.00	0.00	0.00	3619.05
57	59	0.00	-891.04	0.00	0.00	0.00	-1746.35
58	59	0.00	891.04	0.00	0.00	0.00	1746.35
58	58	0.00	-800.42	0.00	0.00	0.00	-54.88
59	58	0.00	800.42	0.00	0.00	0.00	54.89
59	57	0.00	-709.80	0.00	0.00	0.00	1455.34
60	57	0.00	911.49	0.00	0.00	0.00	10363.56
60	56	0.00	-820.87	0.00	0.00	0.00	-8631.21
61	56	0.00	820.87	0.00	0.00	0.00	8631.21
61	55	0.00	-730.25	0.00	0.00	0.00	-7080.10
62	55	0.00	730.25	0.00	0.00	0.00	7080.09
62	54	0.00	-639.63	0.00	0.00	0.00	-5710.23
63	54	0.00	1127.37	0.00	0.00	0.00	12284.61
63	53	0.00	-1036.75	0.00	0.00	0.00	-10120.48
64	53	0.00	1036.75	0.00	0.00	0.00	10120.49
64	52	0.00	-946.13	0.00	0.00	0.00	-8137.60
65	52	0.00	946.13	0.00	0.00	0.00	8137.60
65	51	0.00	-855.51	0.00	0.00	0.00	-6335.96
66	51	0.00	1310.39	0.00	0.00	0.00	13864.35
66	50	0.00	-1219.76	0.00	0.00	0.00	-11334.20
67	50	0.00	1219.77	0.00	0.00	0.00	11334.20
67	49	0.00	-1129.14	0.00	0.00	0.00	-8985.29
68	49	0.00	1129.15	0.00	0.00	0.00	8985.29
68	48	0.00	-1038.53	0.00	0.00	0.00	-6817.62
69	48	0.00	1460.52	0.00	0.00	0.00	15102.79
69	47	0.00	-1369.90	0.00	0.00	0.00	-12272.37
70	47	0.00	1369.90	0.00	0.00	0.00	12272.37
70	46	0.00	-1279.28	0.00	0.00	0.00	-9623.18
71	46	0.00	1279.28	0.00	0.00	0.00	9623.18
71	45	0.00	-1188.66	0.00	0.00	0.00	-7155.23
72	45	0.00	1577.72	0.00	0.00	0.00	15995.91
72	44	0.00	-1487.10	0.00	0.00	0.00	-12931.09
73	44	0.00	1487.10	0.00	0.00	0.00	12931.09
73	43	0.00	-1396.48	0.00	0.00	0.00	-10047.51
74	43	0.00	1396.48	0.00	0.00	0.00	10047.51
74	42	0.00	-1305.86	0.00	0.00	0.00	-7345.17
75	42	0.00	1661.90	0.00	0.00	0.00	16539.10
75	41	0.00	-1571.28	0.00	0.00	0.00	-13305.91
76	41	0.00	1571.28	0.00	0.00	0.00	13305.91
76	40	0.00	-1480.66	0.00	0.00	0.00	-10253.97
77	40	0.00	1480.66	0.00	0.00	0.00	10253.98
77	39	0.00	-1385.77	0.00	0.00	0.00	-7385.41
78	39	0.00	1708.77	0.00	0.00	0.00	16732.91
78	38	0.00	-1609.61	0.00	0.00	0.00	-13414.54
79	38	0.00	1609.61	0.00	0.00	0.00	13414.54
79	37	0.00	-1510.45	0.00	0.00	0.00	-10294.49
80	37	0.00	1510.45	0.00	0.00	0.00	10294.49
80	36	0.00	-1411.29	0.00	0.00	0.00	-7372.76
81	36	0.00	1702.54	0.00	0.00	0.00	16754.07
81	34	0.00	-1603.38	0.00	0.00	0.00	-13448.15
82	34	0.00	2661.16	0.00	0.00	0.00	74798.95
82	32	0.00	-2554.08	0.00	0.00	0.00	-69591.66
83	32	0.00	2554.08	0.00	0.00	0.00	69591.65
83	31	0.00	-2454.92	0.00	0.00	0.00	-64582.61
84	31	0.00	2454.92	0.00	0.00	0.00	64582.63
84	30	0.00	-2355.76	0.00	0.00	0.00	-59772.00
85	30	0.00	2355.76	0.00	0.00	0.00	59772.03
85	29	0.00	-2255.44	0.00	0.00	0.00	-55160.77
86	29	0.00	2255.44	0.00	0.00	0.00	55160.77
86	28	0.00	-2156.87	0.00	0.00	0.00	-50751.80
87	28	0.00	2156.87	0.00	0.00	0.00	50751.77
87	27	0.00	-2066.25	0.00	0.00	0.00	-46528.71
88	27	0.00	2066.26	0.00	0.00	0.00	46528.61
88	26	0.00	-1974.48	0.00	0.00	0.00	-42487.90
89	26	0.00	1974.47	0.00	0.00	0.00	42487.98
89	25	0.00	-1880.17	0.00	0.00	0.00	-38634.51
90	25	0.00	1880.18	0.00	0.00	0.00	38634.41
90	24	0.00	-1789.56	0.00	0.00	0.00	-34964.74
91	24	0.00	1789.56	0.00	0.00	0.00	34964.74
91	23	0.00	-1697.78	0.00	0.00	0.00	-31477.43
92	23	0.00	1697.77	0.00	0.00	0.00	31477.52
92	22	0.00	-1603.47	0.00	0.00	0.00	-28177.42
93	22	0.00	1603.48	0.00	0.00	0.00	28177.45
93	21	0.00	-1512.86	0.00	0.00	0.00	-25061.04
94	21	0.00	1512.85	0.00	0.00	0.00	25061.12
94	20	0.00	-1421.07	0.00	0.00	0.00	-22127.13
95	20	0.00	1421.08	0.00	0.00	0.00	22127.14
95	19	0.00	-1326.78	0.00	0.00	0.00	-19380.38
96	19	0.00	1326.78	0.00	0.00	0.00	19380.48
96	18	0.00	-1236.16	0.00	0.00	0.00	-16817.58
97	18	0.00	1236.15	0.00	0.00	0.00	16817.66
97	17	0.00	-1144.37	0.00	0.00	0.00	-14437.01
98	17	0.00	1144.38	0.00	0.00	0.00	14437.01
98	16	0.00	-1050.08	0.00	0.00	0.00	-12243.78
99	16	0.00	1050.07	0.00	0.00	0.00	12243.85
99	15	0.00	-959.45	0.00	0.00	0.00	-10234.33
100	15	0.00	959.46	0.00	0.00	0.00	10234.29
100	14	0.00	-867.68	0.00	0.00	0.00	-8407.15
101	14	0.00	867.68	0.00	0.00	0.00	8407.05
101	13	0.00	-773.38	0.00	0.00	0.00	-6767.23
102	13	0.00	773.38	0.00	0.00	0.00	6767.34
102	12	0.00	-682.76	0.00	0.00	0.00	-5311.18
103	12	0.00	682.76	0.00	0.00	0.00	5311.17
103	11	0.00	-592.14	0.00	0.00	0.00	-4036.32
104	11	0.00	592.14	0.00	0.00	0.00	4036.34
104	10	0.00	-501.52	0.00	0.00	0.00	-2942.71
105	10	0.00	501.52	0.00	0.00	0.00	2942.61
105	9	0.00	-410.90	0.00	0.00	0.00	-2030.29

106	9	0.00	410.91	0.00	0.00	0.00	2030.24
106	8	0.00	-320.29	0.00	0.00	0.00	-1299.15
107	8	0.00	320.29	0.00	0.00	0.00	1299.17
107	7	0.00	-229.67	0.00	0.00	0.00	-749.18
108	7	0.00	229.67	0.00	0.00	0.00	749.23
108	6	0.00	-139.05	0.00	0.00	0.00	-380.48
109	6	0.00	139.05	0.00	0.00	0.00	380.49
109	5	0.00	-48.43	0.00	0.00	0.00	-193.15

HIPOTESIS 124

FUER Y MIN (Envolv. de Proceso)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
1	121	0.00	-123.38	0.00	0.00	0.00	0.00
1	119	0.00	187.38	0.00	0.00	0.00	-318.68
2	119	0.00	-187.38	0.00	0.00	0.00	318.68
2	118	0.00	247.88	0.00	0.00	0.00	-753.94
3	118	0.00	-247.88	0.00	0.00	0.00	753.94
3	117	0.00	314.64	0.00	0.00	0.00	-1316.47
4	117	0.00	-314.64	0.00	0.00	0.00	1316.47
4	116	0.00	396.14	0.00	0.00	0.00	-2027.25
5	116	0.00	-396.14	0.00	0.00	0.00	2027.25
5	115	0.00	486.76	0.00	0.00	0.00	-2910.16
6	115	0.00	-226.23	0.00	0.00	0.00	853.46
6	114	0.00	316.85	0.00	0.00	0.00	-1396.55
7	114	0.00	-309.78	0.00	0.00	0.00	1628.38
7	113	0.00	400.40	0.00	0.00	0.00	-2338.55
8	113	0.00	-400.40	0.00	0.00	0.00	2338.55
8	112	0.00	491.02	0.00	0.00	0.00	-3229.97
9	112	0.00	-203.76	0.00	0.00	0.00	1148.49
9	111	0.00	294.38	0.00	0.00	0.00	-1646.63
10	111	0.00	-265.64	0.00	0.00	0.00	2174.82
10	110	0.00	356.26	0.00	0.00	0.00	-2796.73
11	110	0.00	-356.26	0.00	0.00	0.00	2796.73
11	109	0.00	446.88	0.00	0.00	0.00	-3599.88
12	109	0.00	-344.61	0.00	0.00	0.00	-3075.47
12	108	0.00	435.23	0.00	0.00	0.00	2295.63
13	108	0.00	-435.23	0.00	0.00	0.00	-2295.62
13	107	0.00	525.85	0.00	0.00	0.00	1334.54
14	107	0.00	-525.85	0.00	0.00	0.00	-1334.54
14	106	0.00	616.47	0.00	0.00	0.00	192.21
15	106	0.00	-616.47	0.00	0.00	0.00	-192.21
15	105	0.00	707.09	0.00	0.00	0.00	-1131.36
16	105	0.00	-707.09	0.00	0.00	0.00	1131.36
16	104	0.00	797.71	0.00	0.00	0.00	-2636.17
17	104	0.00	-797.71	0.00	0.00	0.00	2636.17
17	103	0.00	892.60	0.00	0.00	0.00	-4324.35
18	103	0.00	-892.60	0.00	0.00	0.00	4324.35
18	102	0.00	991.76	0.00	0.00	0.00	-6208.72
19	102	0.00	-991.76	0.00	0.00	0.00	6208.72
19	101	0.00	1090.92	0.00	0.00	0.00	-8291.41
20	101	0.00	-1090.92	0.00	0.00	0.00	8291.41
20	100	0.00	1190.08	0.00	0.00	0.00	-10572.42
21	100	0.00	-1190.08	0.00	0.00	0.00	10572.42
21	98	0.00	1289.24	0.00	0.00	0.00	-13051.75

22	98	0.00	-1096.63	0.00	0.00	0.00	7982.22
22	96	0.00	1203.71	0.00	0.00	0.00	-10290.46
23	96	0.00	-1203.71	0.00	0.00	0.00	10290.46
23	95	0.00	1302.87	0.00	0.00	0.00	-12797.03
24	95	0.00	-945.65	0.00	0.00	0.00	5701.55
24	94	0.00	1044.81	0.00	0.00	0.00	-7692.01
25	94	0.00	-1044.81	0.00	0.00	0.00	7692.01
25	93	0.00	1143.97	0.00	0.00	0.00	-9880.78
26	93	0.00	-1143.97	0.00	0.00	0.00	9880.78
26	92	0.00	1238.86	0.00	0.00	0.00	-12265.74
27	92	0.00	-940.17	0.00	0.00	0.00	5511.01
27	91	0.00	1030.79	0.00	0.00	0.00	-7481.97
28	91	0.00	-1030.79	0.00	0.00	0.00	7481.97
28	90	0.00	1121.41	0.00	0.00	0.00	-9634.18
29	90	0.00	-1121.41	0.00	0.00	0.00	9634.18
29	89	0.00	1212.03	0.00	0.00	0.00	-11967.63
30	89	0.00	-911.94	0.00	0.00	0.00	5373.11
30	88	0.00	1002.56	0.00	0.00	0.00	-7287.60
31	88	0.00	-1002.56	0.00	0.00	0.00	7287.60
31	87	0.00	1093.18	0.00	0.00	0.00	-9383.33
32	87	0.00	-1093.18	0.00	0.00	0.00	9383.34
32	86	0.00	1183.80	0.00	0.00	0.00	-11660.31
33	86	0.00	-890.41	0.00	0.00	0.00	5216.27
33	85	0.00	981.03	0.00	0.00	0.00	-7087.70
34	85	0.00	-981.03	0.00	0.00	0.00	7087.70
34	84	0.00	1071.65	0.00	0.00	0.00	-9140.38
35	84	0.00	-1071.65	0.00	0.00	0.00	9140.38
35	83	0.00	1162.27	0.00	0.00	0.00	-11374.29
36	83	0.00	-872.24	0.00	0.00	0.00	5052.83
36	82	0.00	962.86	0.00	0.00	0.00	-6887.93
37	82	0.00	-962.86	0.00	0.00	0.00	6887.93
37	81	0.00	1053.48	0.00	0.00	0.00	-8904.26
38	81	0.00	-1053.48	0.00	0.00	0.00	8904.26
38	80	0.00	1144.10	0.00	0.00	0.00	-11101.84
39	80	0.00	-858.24	0.00	0.00	0.00	4892.20
39	79	0.00	948.86	0.00	0.00	0.00	-6699.31
40	79	0.00	-948.86	0.00	0.00	0.00	6699.31
40	78	0.00	1039.48	0.00	0.00	0.00	-8687.65
41	78	0.00	-1039.48	0.00	0.00	0.00	8687.65
41	77	0.00	1130.10	0.00	0.00	0.00	-10857.23
42	77	0.00	-849.63	0.00	0.00	0.00	4739.80
42	76	0.00	940.25	0.00	0.00	0.00	-6529.68
43	76	0.00	-940.25	0.00	0.00	0.00	6529.68
43	75	0.00	1030.87	0.00	0.00	0.00	-8500.80
44	75	0.00	-1030.87	0.00	0.00	0.00	8500.80
44	74	0.00	1121.49	0.00	0.00	0.00	-10653.16
45	74	0.00	-843.91	0.00	0.00	0.00	4598.44
45	73	0.00	934.53	0.00	0.00	0.00	-6376.87
46	73	0.00	-934.53	0.00	0.00	0.00	6376.87
46	72	0.00	1025.15	0.00	0.00	0.00	-8336.55
47	72	0.00	-1025.15	0.00	0.00	0.00	8336.55
47	71	0.00	1120.04	0.00	0.00	0.00	-10479.60
48	71	0.00	-846.10	0.00	0.00	0.00	-4603.27
48	70	0.00	945.26	0.00	0.00	0.00	2811.92
49	70	0.00	-945.26	0.00	0.00	0.00	-2811.92
49	69	0.00	1044.42	0.00	0.00	0.00	822.25
50	69	0.00	-1044.42	0.00	0.00	0.00	-822.25
50	68	0.00	1143.58	0.00	0.00	0.00	-1365.74
51	68	0.00	-1143.58	0.00	0.00	0.00	1365.74
51	66	0.00	1242.74	0.00	0.00	0.00	-3752.05
52	66	0.00	-1089.85	0.00	0.00	0.00	750.19
52	64	0.00	1196.93	0.00	0.00	0.00	-3044.88
53	64	0.00	-1196.93	0.00	0.00	0.00	3044.89
53	63	0.00	1296.09	0.00	0.00	0.00	-5537.91
54	63	0.00	-1067.43	0.00	0.00	0.00	812.25
54	62	0.00	1166.59	0.00	0.00	0.00	-3046.27
55	62	0.00	-1166.59	0.00	0.00	0.00	3046.27
55	61	0.00	1265.75	0.00	0.00	0.00	-5478.61
56	61	0.00	-1265.75	0.00	0.00	0.00	5478.61
56	60	0.00	1360.64	0.00	0.00	0.00	-8107.13
57	60	0.00	-1122.88	0.00	0.00	0.00	2810.71
57	59	0.00	1213.50	0.00	0.00	0.00	-5147.09
58	59	0.00	-1213.50	0.00	0.00	0.00	5147.09
58	58	0.00	1304.12	0.00	0.00	0.00	-7664.71
59	58	0.00	-1304.12	0.00	0.00	0.00	7664.71
59	57	0.00	1394.74	0.00	0.00	0.00	-10363.56
60	57	0.00	-1151.54	0.00	0.00	0.00	4559.80
60	56	0.00	1242.16	0.00	0.00	0.00	-6953.49
61	56	0.00	-1242.16	0.00	0.00	0.00	6953.49
61	55	0.00	1332.78	0.00	0.00	0.00	-9528.43
62	55	0.00	-1332.78	0.00	0.00	0.00	9528.43
62	54	0.00	1423.40	0.00	0.00	0.00	-12284.61
63	54	0.00	-1174.16	0.00	0.00	0.00	6003.83
63	53	0.00	1264.78	0.00	0.00	0.00	-8442.76
64	53	0.00	-1264.78	0.00	0.00	0.00	8442.76
64	52	0.00	1355.40	0.00	0.00	0.00	-11062.94
65	52	0.00	-1355.40	0.00	0.00	0.00	11062.94
65	51	0.00	1446.02	0.00	0.00	0.00	-13864.35
66	51	0.00	-1190.86	0.00	0.00	0.00	7142.05
66	50	0.00	1281.48	0.00	0.00	0.00	-9614.39
67	50	0.00	-1281.48	0.00	0.00	0.00	9614.39
67	49	0.00	1372.10	0.00	0.00	0.00	-12267.97
68	49	0.00	-1372.10	0.00	0.00	0.00	12267.97
68	48	0.00	1462.72	0.00	0.00	0.00	-15102.79
69	48	0.00	-1365.35	0.00	0.00	0.00	23811.97
69	47	0.00	1455.97	0.00	0.00	0.00	-26633.31
70	47	0.00	-1455.97	0.00	0.00	0.00	26633.31
70	46	0.00	1546.59	0.00	0.00	0.00	-29635.88
71	46	0.00	-1546.59	0.00	0.00	0.00	29635.88
71	45	0.00	1637.21	0.00	0.00	0.00	-32819.68
72	45	0.00	-1637.22	0.00	0.00	0.00	32819.69
72	44	0.00	1727.84	0.00	0.00	0.00	-36184.74
73	44	0.00	-1727.84	0.00	0.00	0.00	36184.73
73	43	0.00	1818.46	0.00	0.00	0.00	-39731.04
74	43	0.00	-1818.45	0.00	0.00	0.00	39731.04
74	42	0.00	1909.07	0.00	0.00	0.00	-43458.55
75	42	0.00	-1909.07	0.00	0.00	0.00	43458.57
75	41	0.00	1999.69	0.00	0.00	0.00	-47367.32
76	41	0.00	-1999.69	0.00	0.00	0.00	47367.32
76	40	0.00	2090.31	0.00	0.00	0.00	-51457.35
77	40	0.00	-2090.32	0.00	0.00	0.00	51457.37
77	39	0.00	2185.21	0.00	0.00	0.00	-55730.72

78	39	0.00	-2185.21	0.00	0.00	0.00	55730.73
78	38	0.00	2284.37	0.00	0.00	0.00	-60200.32
79	38	0.00	-2284.36	0.00	0.00	0.00	60200.31
79	37	0.00	2383.52	0.00	0.00	0.00	-64868.23
80	37	0.00	-2383.52	0.00	0.00	0.00	64868.21
80	36	0.00	2482.69	0.00	0.00	0.00	-69734.41
81	36	0.00	-2482.68	0.00	0.00	0.00	69734.39
81	34	0.00	2581.84	0.00	0.00	0.00	-74798.98
82	34	0.00	-2393.26	0.00	0.00	0.00	54581.36
82	32	0.00	2500.34	0.00	0.00	0.00	-59482.84
83	32	0.00	-2500.34	0.00	0.00	0.00	59482.85
83	31	0.00	2599.50	0.00	0.00	0.00	-64582.70
84	31	0.00	-1948.65	0.00	0.00	0.00	38161.38
84	30	0.00	2047.81	0.00	0.00	0.00	-42157.82
85	30	0.00	-2047.81	0.00	0.00	0.00	42157.82
85	29	0.00	2148.13	0.00	0.00	0.00	-46353.75
86	29	0.00	-2148.13	0.00	0.00	0.00	46353.74
86	28	0.00	2246.70	0.00	0.00	0.00	-50751.86
87	28	0.00	-1686.99	0.00	0.00	0.00	27688.79
87	27	0.00	1777.61	0.00	0.00	0.00	-31153.39
88	27	0.00	-1777.61	0.00	0.00	0.00	31153.38
88	26	0.00	1869.39	0.00	0.00	0.00	-34800.35
89	26	0.00	-1869.39	0.00	0.00	0.00	34800.34
89	25	0.00	1963.69	0.00	0.00	0.00	-38634.60
90	25	0.00	-1535.02	0.00	0.00	0.00	18143.47
90	24	0.00	1625.64	0.00	0.00	0.00	-21304.14
91	24	0.00	-1625.64	0.00	0.00	0.00	21304.14
91	23	0.00	1717.42	0.00	0.00	0.00	-24647.17
92	23	0.00	-1717.42	0.00	0.00	0.00	24647.17
92	22	0.00	1811.72	0.00	0.00	0.00	-28177.50
93	22	0.00	-1293.66	0.00	0.00	0.00	10794.75
93	21	0.00	1384.28	0.00	0.00	0.00	-13472.68
94	21	0.00	-1384.28	0.00	0.00	0.00	13472.68
94	20	0.00	1476.06	0.00	0.00	0.00	-16332.99
95	20	0.00	-1476.06	0.00	0.00	0.00	16332.99
95	19	0.00	1570.36	0.00	0.00	0.00	-19380.59
96	19	0.00	-1146.88	0.00	0.00	0.00	4538.68
96	18	0.00	1237.50	0.00	0.00	0.00	-6923.06
97	18	0.00	-1237.50	0.00	0.00	0.00	6923.06
97	17	0.00	1329.28	0.00	0.00	0.00	-9489.81
98	17	0.00	-1329.28	0.00	0.00	0.00	9489.81
98	16	0.00	1423.58	0.00	0.00	0.00	-12243.87
99	16	0.00	-1033.06	0.00	0.00	0.00	-254.94
99	15	0.00	1123.68	0.00	0.00	0.00	-1901.81
100	15	0.00	-1123.68	0.00	0.00	0.00	1901.81
100	14	0.00	1215.46	0.00	0.00	0.00	-4240.92
101	14	0.00	-1215.46	0.00	0.00	0.00	4240.92
101	13	0.00	1309.76	0.00	0.00	0.00	-6767.33
102	13	0.00	-952.13	0.00	0.00	0.00	-3585.69
102	12	0.00	1042.75	0.00	0.00	0.00	1590.80
103	12	0.00	-1042.75	0.00	0.00	0.00	-1590.80
103	11	0.00	1133.37	0.00	0.00	0.00	-585.32
104	11	0.00	-1133.37	0.00	0.00	0.00	585.32
104	10	0.00	1223.99	0.00	0.00	0.00	-2942.69
105	10	0.00	-899.36	0.00	0.00	0.00	-5462.57
105	9	0.00	989.98	0.00	0.00	0.00	3573.22
106	9	0.00	-989.98	0.00	0.00	0.00	-3573.23
106	8	0.00	1080.60	0.00	0.00	0.00	1502.63
107	8	0.00	-1080.60	0.00	0.00	0.00	-1502.64
107	7	0.00	1171.22	0.00	0.00	0.00	-749.18
108	7	0.00	-878.81	0.00	0.00	0.00	-5901.58
108	6	0.00	969.43	0.00	0.00	0.00	4053.35
109	6	0.00	-969.43	0.00	0.00	0.00	-4053.34
109	5	0.00	1060.05	0.00	0.00	0.00	2023.86

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO ____ FECHA ____

XAVS DE 2001

Caracterización de [illegible]

km	Ax	Dx	Ix	V	V'	Cota
1- [illegible]	7.7230	182.0	[illegible]	[illegible]	[illegible]	[illegible]
77	8.07576	199.77	[illegible]	1.723	0.817	2.54
78	8.3835	204.990	5.16337	1.9384	[illegible]	2.85
79	8.828	225.34	[illegible]	2.2276	1.0424	3.27
80	9.3073	241.85	12.07465	2.5911	1.209	[illegible]
81	9.8825	276.870	18.21104	3.03	1.41	4.44
82	10.4407	307.893	26.51179	3.503	1.647	5.21
83	10.9776	340.195	38.82.71	4.1875	1.9125	6.10
84	12.2126	403.705	63.736	4.742	2.325	7.13
85	15.1276	507.401	132.709	4.87	3.43	8.30
	15.2433	513.178	135.614		3.47	8.34
	12.7969	414.036	65.877		2.476	7.19
	11.0427	344.008	40.3777		1.96	6.19
	10.1636	297.109	26.1777		1.608	5.31

distancia [illegible] 2.377 1-V

[illegible] 1.747 m

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAN
1	0.00	AB	25.62	0.00	0.00	0.00	39.01	0.00	0.00	0.00	0.18	0.00	25.62
	0.00	AB	32.76C	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	11.12	0.00	0.12	2.03	6.36	0.00	0.00	0.00	0.13	0.00	11.36
	0.00	AB	32.76C	0.00	0.14	2.40	4.67	0.00	0.00	0.00	0.02	0.00	0.28
8	0.00	AB	11.81	0.00	0.00	0.00	6.53	0.00	0.00	0.00	0.14	0.00	11.81
	0.00	AB	32.76C	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.10	1.70	0.07	0.00	0.00	0.00	0.00	0.00	0.20
	0.00	AB	10.82	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.14	0.00	10.82
9	0.00	AB	32.76C	0.00	0.00	0.00	4.28	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.19	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.07	1.23	0.69	0.00	0.00	0.00	0.01	0.00	0.14
	0.00	AB	32.76C	0.00	0.00	0.00	4.21	0.00	0.00	0.00	0.09	0.00	0.00
10	0.00	AB	32.76C	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	7.54	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.04	0.76	1.44	0.00	0.00	0.00	0.03	0.00	0.09
	0.00	AB	32.76C	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.04	0.00	0.00
11	0.00	AB	32.76C	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	12.65	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.02	0.29	2.20	0.00	0.00	0.00	0.05	0.00	0.03
	0.00	AB	32.76C	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.00	0.00
12	0.00	AB	32.76C	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	2.86	0.00	0.00	0.00	5.06	0.00	0.00	0.00	0.11	0.00	2.86
	0.00	AB	32.76C	0.00	0.00	0.00	14.49	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.05	0.00	0.00
13	0.00	AB	32.76C	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	13.35	0.00	0.00	0.00	32.24	0.00	0.00	0.00	0.17	0.00	13.35
	0.00	AB	32.76C	0.00	0.00	0.00	18.20	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	1.26	0.00	0.00	0.00	4.81	0.00	0.00	0.00	0.11	0.00	1.26
14	0.00	AB	32.76C	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	24.21	0.00	0.00	0.00	42.19	0.00	0.00	0.00	0.22	0.00	24.21
	0.00	AB	11.78	0.00	0.00	0.00	30.19	0.00	0.00	0.00	0.15	0.00	11.78
	0.00	AB	3.08	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.12	0.00	3.08
15	0.00	AB	32.76C	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	35.06	0.00	0.00	0.00	52.13	0.00	0.00	0.00	0.28	0.00	35.06
	0.00	C	32.15	191.08	0.00	0.00	36.13	0.00	0.00	0.00	0.18	0.00	32.15
	0.00	AB	8.21	0.00	0.00	0.00	27.57	0.00	0.00	0.00	0.15	0.00	8.21
16	0.00	AB	32.76C	0.00	0.00	0.00	3.41	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	70.41	272.49	0.00	0.00	62.08	0.00	0.00	0.00	0.33	0.00	70.41
	0.00	C	71.26	266.67	0.00	0.00	61.78	0.00	0.00	0.00	0.32	0.00	71.26

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAN
	0.00	AB	32.76C	0.00	0.00	0.00	17.03	0.00	0.00	0.00	0.09	0.00	0.00
16	0.00	C	77.56	300.17	0.00	0.00	68.38	0.00	0.00	0.00	0.36	0.00	77.56
	0.00	AB	32.76C	0.00	0.00	0.00	14.79	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	78.52	291.27	0.00	0.00	67.77	0.00	0.00	0.00	0.35	0.00	78.52
	0.00	AB	32.76C	0.00	0.00	0.00	17.82	0.00	0.00	0.00	0.09	0.00	0.00
31	0.00	AB	41.51	0.00	0.00	0.00	58.17	0.00	0.00	0.00	0.31	0.00	41.51
	0.00	AB	32.76C	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	43.41	0.00	0.00	0.00	57.57	0.00	0.00	0.00	0.30	0.00	43.41
	0.00	AB	32.76C	0.00	0.00	0.00	14.31	0.00	0.00	0.00	0.08	0.00	0.00
32	0.00	AB	30.65	0.00	0.00	0.00	48.23	0.00	0.00	0.00	0.26	0.00	30.65
	0.00	AB	32.76C	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	9.85	0.00	0.00	0.00	28.58	0.00	0.00	0.00	0.15	0.00	9.85
	0.00	AB	6.35	0.00	0.00	0.00	5.87	0.00	0.00	0.00	0.14	0.00	6.35
33	0.00	AB	22.41	0.00	0.00	0.00	38.29	0.00	0.00	0.00	0.19	0.00	22.41
	0.00	AB	32.76C	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	C	0.25	120.37	0.00	0.00	14.97	0.00	0.00	0.00	0.07	0.00	0.25
	0.00	AB	11.96	0.00	0.00	0.00	6.63	0.00	0.00	0.00	0.14	0.00	11.96
34	0.00	AB	10.18	0.00	0.00	0.00	6.43	0.00	0.00	0.00	0.14	0.00	10.18
	0.00	AB	32.76C	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	C	32.76C	110.72	0.00	0.00	11.26	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.37	0.00	0.00	0.00	0.09	0.00	0.00
35	0.00	AB	32.76C	0.00	0.00	0.00	4.17	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	5.11	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.67	0.00	0.00	0.00	0.06	0.00	0.00
36	0.00	AB	32.76C	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.01	0.00	0.00
37	0.00	AB	32.76C	0.00	0.00	0.00	4.14	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.53	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.63	0.00	0.00	0.00	0.03	0.00	0.00
38	0.00	AB	32.76C	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	7.07	0.00	0.00	0.00	5.78	0.00	0.00	0.00	0.12	0.00	7.07
	0.00	C	32.76C	108.28	0.00	0.00	10.42	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.30	0.00	0.00	0.00	0.07	0.00	0.00
39	0.00	AB	32.76C	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	17.71	0.00	0.00	0.00	8.04	0.00	0.00	0.00	0.18	0.00	17.71

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRA
	0.00	AB	32.76C	0.00	0.00	0.00	14.50	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	4.40	0.00	0.00	0.00	5.48	0.00	0.00	0.00	0.13	0.00	4.40
40	0.00	AB	32.76C	0.00	0.00	0.00	5.91	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	29.14	0.00	0.00	0.00	45.38	0.00	0.00	0.00	0.23	0.00	29.14
	0.00	AB	9.68	0.00	0.00	0.00	28.47	0.00	0.00	0.00	0.15	0.00	9.68
	0.00	AB	2.46	0.00	0.00	0.00	5.07	0.00	0.00	0.00	0.12	0.00	2.46
41	0.00	AB	32.76C	0.00	0.00	0.00	9.26	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	40.55	0.00	0.00	0.00	55.32	0.00	0.00	0.00	0.28	0.00	40.55
	0.00	AB	36.88	0.00	0.00	0.00	52.13	0.00	0.00	0.00	0.27	0.00	36.88
	0.00	AB	32.76C	0.00	0.00	0.00	10.58	0.00	0.00	0.00	0.06	0.00	0.00
42	0.00	AB	32.76C	0.00	0.00	0.00	12.33	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	C	74.97	282.90	0.00	0.00	65.27	0.00	0.00	0.00	0.34	0.00	74.97
	0.00	C	74.62	281.57	0.00	0.00	64.96	0.00	0.00	0.00	0.33	0.00	74.62
	0.00	AB	32.76C	0.00	0.00	0.00	13.93	0.00	0.00	0.00	0.07	0.00	0.00
42	0.00	C	75.84	289.79	0.00	0.00	66.44	0.00	0.00	0.00	0.34	0.00	75.84
	0.00	AB	32.76C	0.00	0.00	0.00	11.98	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	C	75.64	289.02	0.00	0.00	66.26	0.00	0.00	0.00	0.34	0.00	75.64
	0.00	AB	32.76C	0.00	0.00	0.00	14.69	0.00	0.00	0.00	0.08	0.00	0.00
57	0.00	AB	41.25	0.00	0.00	0.00	56.23	0.00	0.00	0.00	0.29	0.00	41.25
	0.00	AB	32.76C	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	37.72	0.00	0.00	0.00	53.14	0.00	0.00	0.00	0.28	0.00	37.72
	0.00	AB	32.76C	0.00	0.00	0.00	11.18	0.00	0.00	0.00	0.06	0.00	0.00
58	0.00	AB	29.89	0.00	0.00	0.00	46.29	0.00	0.00	0.00	0.24	0.00	29.89
	0.00	AB	32.76C	0.00	0.00	0.00	5.12	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	8.44	0.00	0.00	0.00	27.46	0.00	0.00	0.00	0.14	0.00	8.44
	0.00	AB	2.40	0.00	0.00	0.00	5.05	0.00	0.00	0.00	0.12	0.00	2.40
59	0.00	AB	20.35	0.00	0.00	0.00	8.24	0.00	0.00	0.00	0.18	0.00	20.35
	0.00	AB	32.76C	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	12.96	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	8.03	0.00	0.00	0.00	5.99	0.00	0.00	0.00	0.13	0.00	8.03
60	0.00	AB	7.92	0.00	0.00	0.00	5.99	0.00	0.00	0.00	0.13	0.00	7.92
	0.00	AB	32.76C	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	9.25	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.74	0.00	0.00	0.00	0.08	0.00	0.00
61	0.00	AB	32.76C	0.00	0.00	0.00	3.73	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.94	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.18	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.04	0.00	0.00
62	0.00	AB	32.76C	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.03	0.00	0.00

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAI
	0.00	AB	32.76C	0.00	0.00	0.00	2.08	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
63	0.00	AB	32.76C	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.20	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	6.21	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.05	0.00	0.00
64	0.00	AB	32.76C	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.94	0.00	0.00	0.00	6.45	0.00	0.00	0.00	0.14	0.00	9.94
	0.00	AB	32.76C	0.00	0.00	0.00	12.30	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.01	0.00	0.00	0.00	0.09	0.00	0.00
65	0.00	AB	32.76C	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	19.26	0.00	0.00	0.00	38.39	0.00	0.00	0.00	0.21	0.00	19.26
	0.00	AB	32.76C	0.00	0.08	1.43	14.22	0.00	0.00	0.00	0.07	0.00	0.17
	0.00	AB	8.11	0.00	0.00	0.00	6.31	0.00	0.00	0.00	0.15	0.00	8.11
66	0.00	AB	32.76C	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	29.67	0.00	0.00	0.00	48.34	0.00	0.00	0.00	0.26	0.00	29.67
	0.00	AB	10.98	0.00	0.00	0.00	29.88	0.00	0.00	0.00	0.16	0.00	10.98
	0.00	AB	4.72	0.00	0.00	0.00	5.58	0.00	0.00	0.00	0.13	0.00	4.72
67	0.00	AB	32.76C	0.00	0.00	0.00	10.85	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	40.07	0.00	0.00	0.00	58.28	0.00	0.00	0.00	0.32	0.00	40.07
	0.00	AB	39.08	0.00	0.00	0.00	55.06	0.00	0.00	0.00	0.29	0.00	39.08
	0.00	AB	8.16	0.00	0.00	0.00	27.90	0.00	0.00	0.00	0.15	0.00	8.16
68	0.00	AB	32.76C	0.00	0.00	0.00	14.21	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	77.39	299.48	0.00	0.00	68.23	0.00	0.00	0.00	0.37	0.00	77.39
	0.00	C	77.03	298.09	0.00	0.00	67.91	0.00	0.00	0.00	0.36	0.00	77.03
	0.00	AB	32.76C	0.00	0.00	0.00	16.97	0.00	0.00	0.00	0.09	0.00	0.00
68	0.00	C	76.87	297.50	0.00	0.00	67.77	0.00	0.00	0.00	0.37	0.00	76.87
	0.00	AB	32.76C	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	76.71	296.86	0.00	0.00	67.63	0.00	0.00	0.00	0.36	0.00	76.71
	0.00	AB	32.76C	0.00	0.00	0.00	16.05	0.00	0.00	0.00	0.09	0.00	0.00
83	0.00	AB	38.90	0.00	0.00	0.00	57.57	0.00	0.00	0.00	0.32	0.00	38.90
	0.00	AB	32.76C	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	38.02	0.00	0.00	0.00	54.51	0.00	0.00	0.00	0.29	0.00	38.02
	0.00	AB	6.99	0.00	0.00	0.00	26.73	0.00	0.00	0.00	0.15	0.00	6.99
84	0.00	AB	28.55	0.00	0.00	0.00	47.62	0.00	0.00	0.00	0.26	0.00	28.55
	0.00	AB	32.76C	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.79	0.00	0.00	0.00	28.94	0.00	0.00	0.00	0.15	0.00	9.79
	0.00	AB	3.54	0.00	0.00	0.00	5.32	0.00	0.00	0.00	0.13	0.00	3.54
85	0.00	AB	20.74	0.00	0.00	0.00	37.68	0.00	0.00	0.00	0.19	0.00	20.74

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAN
	0.00	AB	32.76C	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	C	32.76C	126.06	0.00	0.00	14.66	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	9.12	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.13	0.00	9.12
86	0.00	AB	9.03	0.00	0.00	0.00	6.29	0.00	0.00	0.00	0.14	0.00	9.03
	0.00	AB	32.76C	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	10.95	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.93	0.00	0.00	0.00	0.08	0.00	0.00
87	0.00	AB	32.76C	0.00	0.00	0.00	4.04	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.88	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.21	0.00	0.00	0.00	0.05	0.00	0.00
88	0.00	AB	32.76C	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.81	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
89	0.00	AB	32.76C	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.94	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.05	0.00	0.00
90	0.00	AB	32.76C	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.13	0.00	0.00	0.00	6.20	0.00	0.00	0.00	0.13	0.00	9.13
	0.00	AB	32.76C	0.00	0.00	0.00	10.59	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.82	0.00	0.00	0.00	0.08	0.00	0.00
91	0.00	AB	32.76C	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	19.29	0.00	0.00	0.00	8.45	0.00	0.00	0.00	0.19	0.00	19.29
	0.00	AB	32.76C	0.00	0.00	0.00	14.33	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	6.99	0.00	0.00	0.00	6.07	0.00	0.00	0.00	0.15	0.00	6.99
92	0.00	AB	32.76C	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	30.42	0.00	0.00	0.00	47.20	0.00	0.00	0.00	0.25	0.00	30.42
	0.00	AB	9.49	0.00	0.00	0.00	28.52	0.00	0.00	0.00	0.15	0.00	9.49
	0.00	AB	3.10	0.00	0.00	0.00	5.23	0.00	0.00	0.00	0.13	0.00	3.10
93	0.00	AB	32.76C	0.00	0.00	0.00	9.50	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	41.52	0.00	0.00	0.00	57.14	0.00	0.00	0.00	0.30	0.00	41.52
	0.00	AB	38.10	0.00	0.00	0.00	54.08	0.00	0.00	0.00	0.28	0.00	38.10
	0.00	AB	6.52	0.00	0.00	0.00	26.33	0.00	0.00	0.00	0.14	0.00	6.52
94	0.00	AB	32.76C	0.00	0.00	0.00	12.85	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	76.09	294.48	0.00	0.00	67.09	0.00	0.00	0.00	0.35	0.00	76.09
	0.00	C	75.93	293.83	0.00	0.00	66.94	0.00	0.00	0.00	0.35	0.00	75.93
	0.00	AB	32.76C	0.00	0.00	0.00	15.51	0.00	0.00	0.00	0.09	0.00	0.00
94	0.00	C	76.71	296.87	0.00	0.00	67.63	0.00	0.00	0.00	0.37	0.00	76.71

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAI
	0.00	AB	32.76C	0.00	0.00	0.00	13.35	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	76.44	295.82	0.00	0.00	67.39	0.00	0.00	0.00	0.36	0.00	76.44
	0.00	AB	32.76C	0.00	0.00	0.00	16.00	0.00	0.00	0.00	0.09	0.00	0.00
109	0.00	AB	38.70	0.00	0.00	0.00	57.42	0.00	0.00	0.00	0.32	0.00	38.70
	0.00	AB	32.76C	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	37.71	0.00	0.00	0.00	54.27	0.00	0.00	0.00	0.29	0.00	37.71
	0.00	AB	6.99	0.00	0.00	0.00	26.71	0.00	0.00	0.00	0.15	0.00	6.99
110	0.00	AB	28.38	0.00	0.00	0.00	47.48	0.00	0.00	0.00	0.26	0.00	28.38
	0.00	AB	32.76C	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.89	0.00	0.00	0.00	29.05	0.00	0.00	0.00	0.15	0.00	9.89
	0.00	AB	3.51	0.00	0.00	0.00	5.31	0.00	0.00	0.00	0.13	0.00	3.51
111	0.00	AB	20.51	0.00	0.00	0.00	37.54	0.00	0.00	0.00	0.19	0.00	20.51
	0.00	AB	32.76C	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	C	32.76C	126.66	0.00	0.00	14.70	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	8.76	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.13	0.00	8.76
112	0.00	AB	8.83	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.14	0.00	8.83
	0.00	AB	32.76C	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	10.99	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.86	0.00	0.00	0.00	0.08	0.00	0.00
113	0.00	AB	32.76C	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.89	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.05	0.00	0.00
114	0.00	AB	32.76C	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.86	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	AB	32.76C	0.00	0.00	0.00	4.06	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.52	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.05	0.00	0.00
116	0.00	AB	32.76C	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.48	0.00	0.00	0.00	6.25	0.00	0.00	0.00	0.13	0.00	9.48
	0.00	AB	32.76C	0.00	0.00	0.00	10.59	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.88	0.00	0.00	0.00	0.08	0.00	0.00
117	0.00	AB	32.76C	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	19.62	0.00	0.00	0.00	8.51	0.00	0.00	0.00	0.20	0.00	19.62
	0.00	AB	32.76C	0.00	0.08	1.44	12.92	0.00	0.00	0.00	0.07	0.00	0.17
	0.00	AB	7.21	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.15	0.00	7.21
118	0.00	AB	32.76C	0.00	0.00	0.00	5.99	0.00	0.00	0.00	0.03	0.00	0.00

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAN
	0.00	AB	30.77	0.00	0.00	0.00	47.46	0.00	0.00	0.00	0.25	0.00	30.77
	0.00	AB	9.68	0.00	0.00	0.00	28.68	0.00	0.00	0.00	0.15	0.00	9.68
	0.00	AB	3.08	0.00	0.00	0.00	23.02	0.00	0.00	0.00	0.13	0.00	3.08
119	0.00	AB	32.76C	0.00	0.00	0.00	9.34	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	41.89	0.00	0.00	0.00	57.40	0.00	0.00	0.00	0.30	0.00	41.89
	0.00	AB	38.48	0.00	0.00	0.00	54.36	0.00	0.00	0.00	0.28	0.00	38.48
	0.00	AB	32.76C	0.00	0.00	0.00	11.93	0.00	0.00	0.00	0.07	0.00	0.00
120	0.00	AB	32.76C	0.00	0.00	0.00	12.69	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	76.39	295.63	0.00	0.00	67.35	0.00	0.00	0.00	0.35	0.00	76.39
	0.00	C	76.25	295.08	0.00	0.00	67.22	0.00	0.00	0.00	0.35	0.00	76.25
	0.00	AB	32.76C	0.00	0.00	0.00	15.28	0.00	0.00	0.00	0.08	0.00	0.00
120	0.00	C	76.34	295.44	0.00	0.00	67.31	0.00	0.00	0.00	0.36	0.00	76.34
	0.00	AB	32.76C	0.00	0.00	0.00	12.40	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	76.26	295.11	0.00	0.00	67.23	0.00	0.00	0.00	0.36	0.00	76.26
	0.00	AB	32.76C	0.00	0.00	0.00	13.80	0.00	0.00	0.00	0.08	0.00	0.00
135	0.00	AB	40.73	0.00	0.00	0.00	57.10	0.00	0.00	0.00	0.30	0.00	40.73
	0.00	AB	32.76C	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	37.49	0.00	0.00	0.00	54.15	0.00	0.00	0.00	0.29	0.00	37.49
	0.00	AB	32.76C	0.00	0.00	0.00	10.29	0.00	0.00	0.00	0.06	0.00	0.00
136	0.00	AB	29.77	0.00	0.00	0.00	47.15	0.00	0.00	0.00	0.25	0.00	29.77
	0.00	AB	32.76C	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	11.19	0.00	0.00	0.00	30.24	0.00	0.00	0.00	0.16	0.00	11.19
	0.00	AB	1.91	0.00	0.00	0.00	4.96	0.00	0.00	0.00	0.12	0.00	1.91
137	0.00	AB	21.27	0.00	0.00	0.00	37.21	0.00	0.00	0.00	0.18	0.00	21.27
	0.00	AB	32.76C	0.00	0.00	0.01	0.67	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	C	32.76C	126.80	0.00	0.00	14.70	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	7.04	0.00	0.00	0.00	5.81	0.00	0.00	0.00	0.12	0.00	7.04
138	0.00	AB	8.93	0.00	0.00	0.00	6.19	0.00	0.00	0.00	0.13	0.00	8.93
	0.00	AB	32.76C	0.00	0.00	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	10.99	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.55	0.00	0.00	0.00	0.08	0.00	0.00
139	0.00	AB	32.76C	0.00	0.00	0.00	3.93	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.01	0.85	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.35	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.96	0.00	0.00	0.00	0.04	0.00	0.00
140	0.00	AB	32.76C	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.00	0.00
141	0.00	AB	32.76C	0.00	0.00	0.01	3.17	0.00	0.00	0.00	0.02	0.00	0.00

proc Viaducto sobre el rio Ebro

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRA
	0.00	AB	32.76C	0.00	0.00	0.00	4.18	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.82	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.36	0.00	0.00	0.00	0.05	0.00	0.00
142	0.00	AB	32.76C	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.92	0.00	0.00	0.00	6.44	0.00	0.00	0.00	0.14	0.00	9.92
	0.00	AB	32.76C	0.00	0.00	0.00	11.02	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.05	0.00	0.00	0.00	0.09	0.00	0.00
143	0.00	AB	32.76C	0.00	0.00	0.01	0.80	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	19.28	0.00	0.00	0.00	38.32	0.00	0.00	0.00	0.21	0.00	19.28
	0.00	AB	32.76C	0.00	0.00	0.00	14.47	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	8.28	0.00	0.00	0.00	6.36	0.00	0.00	0.00	0.15	0.00	8.28
144	0.00	AB	32.76C	0.00	0.00	0.01	6.88	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	29.75	0.00	0.00	0.00	48.26	0.00	0.00	0.00	0.26	0.00	29.75
	0.00	AB	9.24	0.00	0.00	0.00	28.27	0.00	0.00	0.00	0.15	0.00	9.24
	0.00	AB	4.62	0.00	0.00	0.00	5.56	0.00	0.00	0.00	0.13	0.00	4.62
145	0.00	AB	32.76C	0.00	0.00	0.01	10.23	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	40.20	0.00	0.00	0.00	58.20	0.00	0.00	0.00	0.32	0.00	40.20
	0.00	AB	41.91	0.00	0.00	0.00	57.36	0.00	0.00	0.00	0.30	0.00	41.91
	0.00	AB	32.76C	0.00	0.00	0.00	13.15	0.00	0.00	0.00	0.07	0.00	0.00
146	0.00	AB	32.76C	0.00	0.00	0.01	13.58	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	77.30	299.14	0.00	0.00	68.15	0.00	0.00	0.00	0.37	0.00	77.30
	0.00	C	76.34	295.44	0.00	0.00	67.31	0.00	0.00	0.00	0.35	0.00	76.34
	0.00	AB	32.76C	0.00	0.00	0.00	16.50	0.00	0.00	0.00	0.09	0.00	0.00
146	0.00	C	83.74	324.09	0.00	0.00	73.83	0.00	0.00	0.00	0.41	0.00	83.74
	0.00	AB	32.76C	0.00	0.00	0.00	3.65	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	80.23	310.51	0.00	0.00	70.74	0.00	0.00	0.00	0.37	0.00	80.23
	0.00	AB	1.07	0.00	0.00	0.00	21.07	0.00	0.00	0.00	0.11	0.00	1.07
161	0.00	AB	44.95	0.00	0.00	0.00	63.62	0.00	0.00	0.00	0.35	0.00	44.95
	0.00	AB	32.76C	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	41.96	0.00	0.00	0.00	58.30	0.00	0.00	0.00	0.31	0.00	41.96
	0.00	AB	8.98	0.00	0.00	0.00	28.58	0.00	0.00	0.00	0.16	0.00	8.98
162	0.00	AB	34.65	0.00	0.00	0.00	53.68	0.00	0.00	0.00	0.30	0.00	34.65
	0.00	AB	32.76C	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	19.99	0.00	0.00	0.00	38.30	0.00	0.00	0.00	0.20	0.00	19.99
	0.00	AB	6.02	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.14	0.00	6.02
163	0.00	AB	27.69	0.00	0.00	0.00	43.74	0.00	0.00	0.00	0.22	0.00	27.69
	0.00	AB	32.76C	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	8.49	0.00	0.00	0.00	27.32	0.00	0.00	0.00	0.14	0.00	8.49
	0.00	AB	3.88	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.11	0.00	3.88
164	0.00	AB	16.04	0.00	0.00	0.00	7.67	0.00	0.00	0.00	0.17	0.00	16.04

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRAI
	0.00	AB	32.76C	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	18.13	0.00	0.00	0.00	0.09	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	4.23	0.00	0.00	0.00	0.09	0.00	0.00
165	0.00	AB	5.18	0.00	0.00	0.00	5.56	0.00	0.00	0.00	0.13	0.00	5.18
	0.00	AB	32.76C	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	9.27	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.07	0.00	0.00
166	0.00	AB	32.76C	0.00	0.00	0.00	19.94	0.00	0.00	0.00	0.10	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	2.74	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.09	0.00	0.00	0.00	0.02	0.00	0.00
167	0.00	AB	32.76C	0.00	0.00	0.00	3.68	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	AB	2.54	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.11	0.00	2.54
	0.00	AB	32.76C	0.00	0.00	0.00	1.59	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.03	0.00	0.00
168	0.00	AB	32.76C	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.84	0.00	0.00	0.00	26.54	0.00	0.00	0.00	0.13	0.00	9.84
	0.00	AB	32.76C	0.00	0.00	0.00	10.68	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.01	0.00	0.00
169	0.00	AB	32.76C	0.00	0.01	0.10	1.61	0.00	0.00	0.00	0.04	0.00	0.01
	0.00	C	28.60	214.08	0.00	0.00	30.77	0.00	0.00	0.00	0.16	0.00	28.60
	0.00	C	25.71	221.24	0.00	0.00	29.77	0.00	0.00	0.00	0.16	0.00	25.71
	0.00	AB	32.76C	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.02	0.00	0.00
170	0.00	AB	32.76C	0.00	0.01	0.13	3.79	0.00	0.00	0.00	0.02	0.00	0.02
	0.00	C	33.88	251.84	0.00	0.00	32.82	0.00	0.00	0.00	0.17	0.00	33.88
	0.00	C	30.79	261.48	0.00	0.00	31.96	0.00	0.00	0.00	0.17	0.00	30.79
	0.00	AB	32.76C	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.01	0.00	0.00
171	0.00	AB	11.27	0.00	0.01	0.16	26.80	0.00	0.00	0.00	0.14	0.00	11.28
	0.00	C	32.76C	182.44	0.00	0.00	11.86	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	C	32.76C	182.44	0.00	0.00	11.86	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.06	0.00	0.00	0.00	25.34	0.00	0.00	0.00	0.14	0.00	9.06
172	0.00	AB	1.12	0.00	0.01	0.16	18.81	0.00	0.00	0.00	0.10	0.00	1.14
	0.00	C	6.48	238.30	0.00	0.00	16.21	0.00	0.00	0.00	0.09	0.00	6.48
	0.00	C	6.48	238.30	0.00	0.00	16.21	0.00	0.00	0.00	0.09	0.00	6.48
	0.00	AB	32.76C	0.00	0.00	0.00	17.44	0.00	0.00	0.00	0.10	0.00	0.00
172	0.00	C	110.20	746.39	0.00	0.00	80.80	0.00	0.00	0.00	0.45	0.00	110.20
	0.00	AB	4.93	0.00	0.00	0.00	21.22	0.00	0.00	0.00	0.11	0.00	4.93
	0.00	C	103.40	629.06	0.00	0.00	71.85	0.00	0.00	0.00	0.39	0.00	103.40
	0.00	AB	31.86	0.00	0.00	0.00	40.67	0.00	0.00	0.00	0.22	0.00	31.86
187	0.00	AB	62.46	0.00	0.00	0.00	61.57	0.00	0.00	0.00	0.35	0.00	62.46

proc Viaducto sobre el rio Ebro

ARMADURA

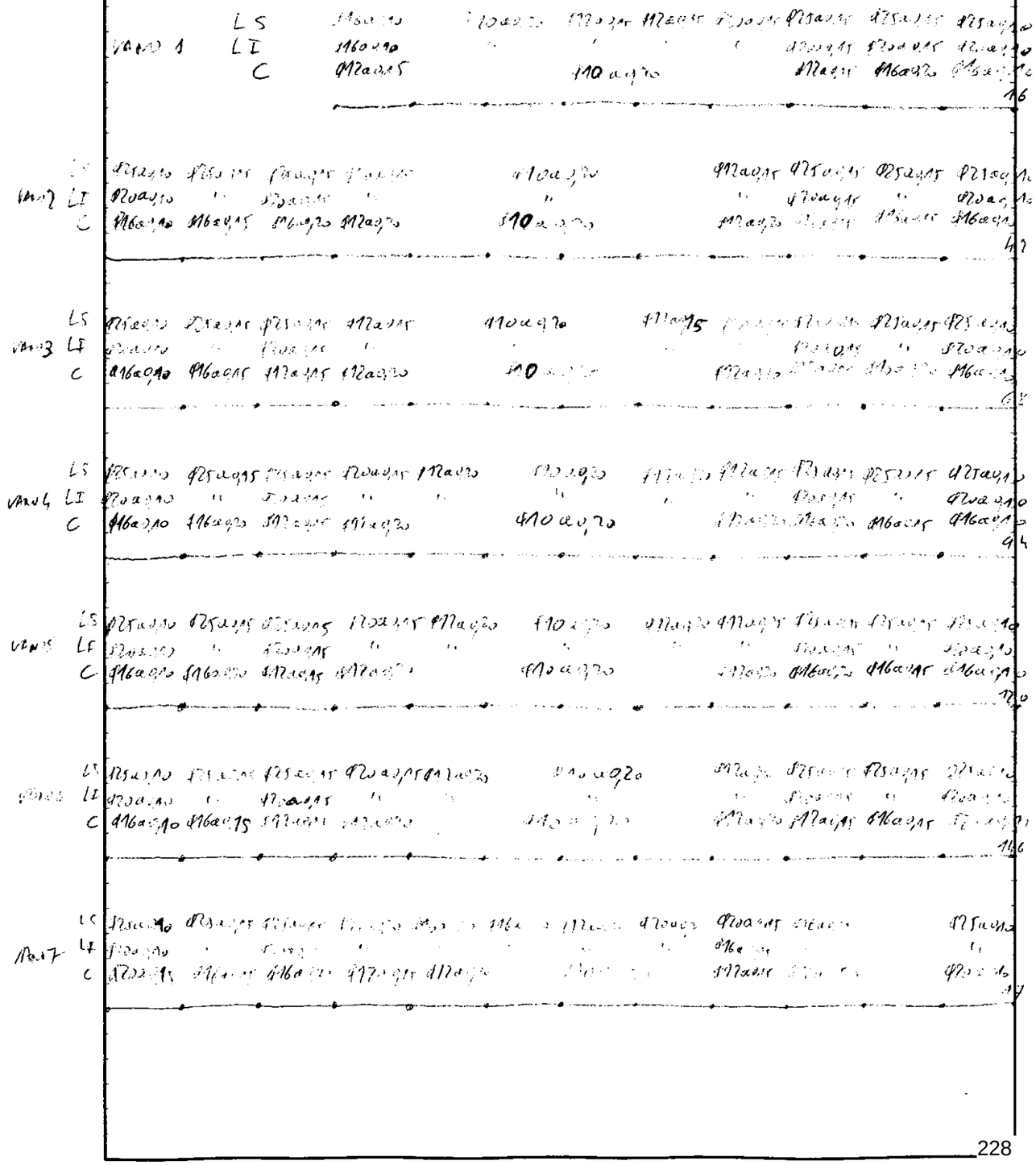
SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRA
	0.00	AB	32.76C	0.00	0.00	0.05	14.62	0.00	0.00	0.00	0.08	0.00	0.01
	0.00	AB	29.14	0.00	0.00	0.00	37.06	0.00	0.00	0.00	0.20	0.00	29.14
	0.00	AB	31.61	0.00	0.00	0.00	10.14	0.00	0.00	0.00	0.22	0.00	31.61
188	0.00	AB	45.11	0.00	0.00	0.00	47.50	0.00	0.00	0.00	0.27	0.00	45.11
	0.00	AB	32.76C	0.00	0.02	0.29	2.28	0.00	0.00	0.00	0.05	0.00	0.03
	0.00	AB	0.62	0.00	0.00	0.00	17.52	0.00	0.00	0.00	0.10	0.00	0.62
	0.00	AB	38.98	0.00	0.00	0.00	11.34	0.00	0.00	0.00	0.24	0.00	38.98
189	0.00	AB	30.22	0.00	0.00	0.00	9.79	0.00	0.00	0.00	0.21	0.00	30.22
	0.00	AB	32.76C	0.00	0.00	0.02	1.91	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	32.76C	0.00	0.00	0.00	12.12	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	23.25	0.00	0.00	0.00	8.26	0.00	0.00	0.00	0.17	0.00	23.25

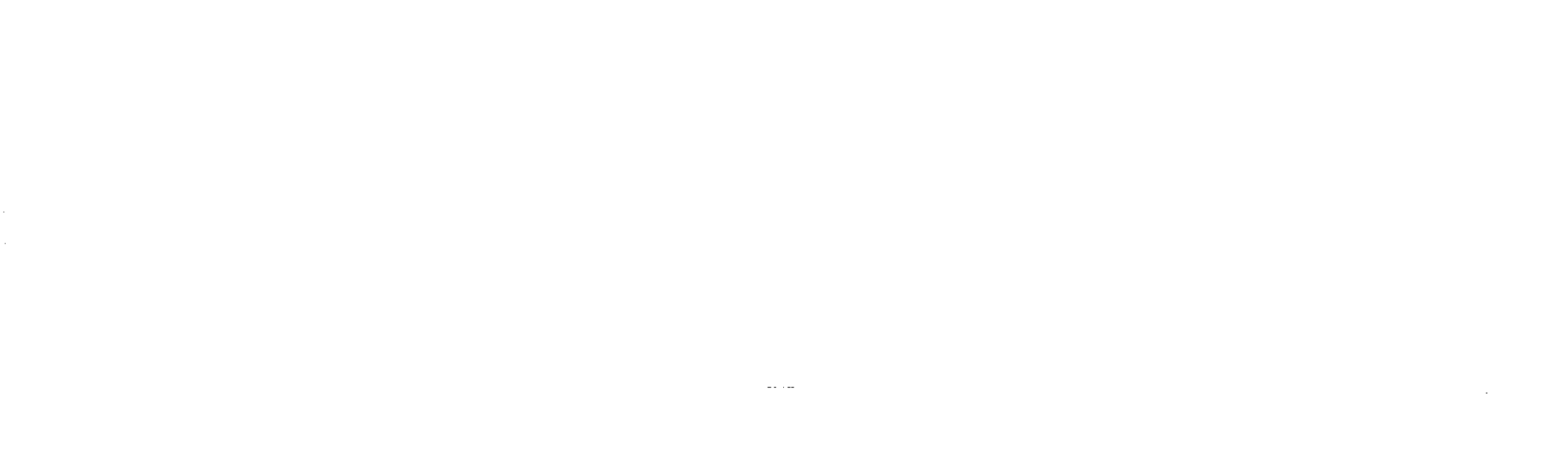
CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA _____ DE _____

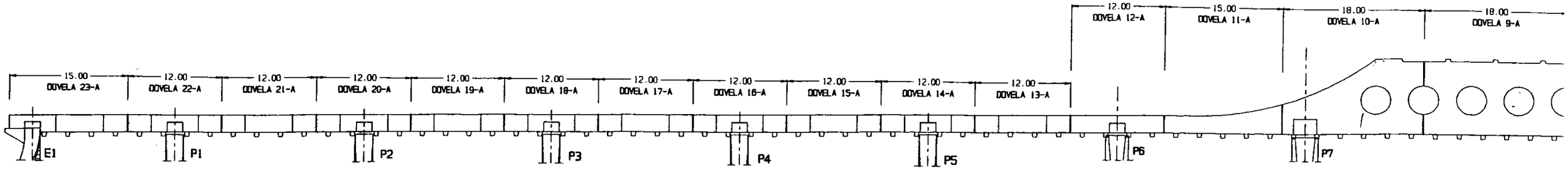
PROYECTO _____ FECHA _____

Distribución de armadura transversal




A2
P1
φ20c.c.20
φ16c.c.20.
A1
8φ20
P2
φ20c.c.20 +
φ12c.c.20
φ16c.c.20+φ12c.c.20

S : 1/50.



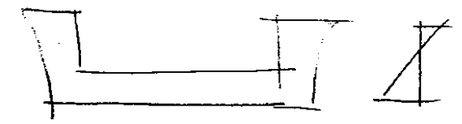
ALZADO

ESCALA 1:250

A																
B																
C																
D																
E																
F																
G																
H																
I																
J																
K																
L																
M																
N																
O																
P																

Cálculo de la armadura de flexión

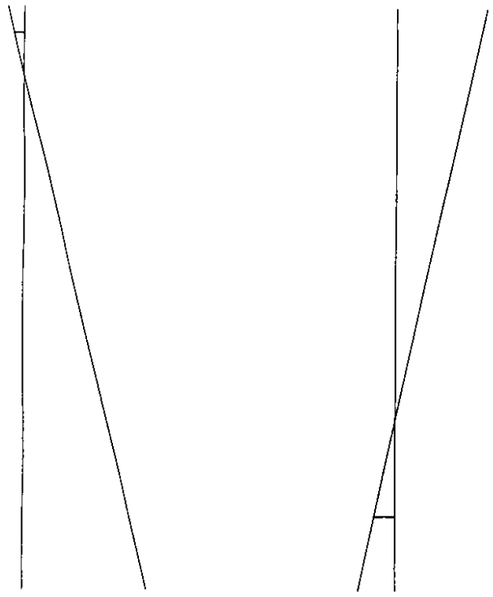
Viaducto de Acceso

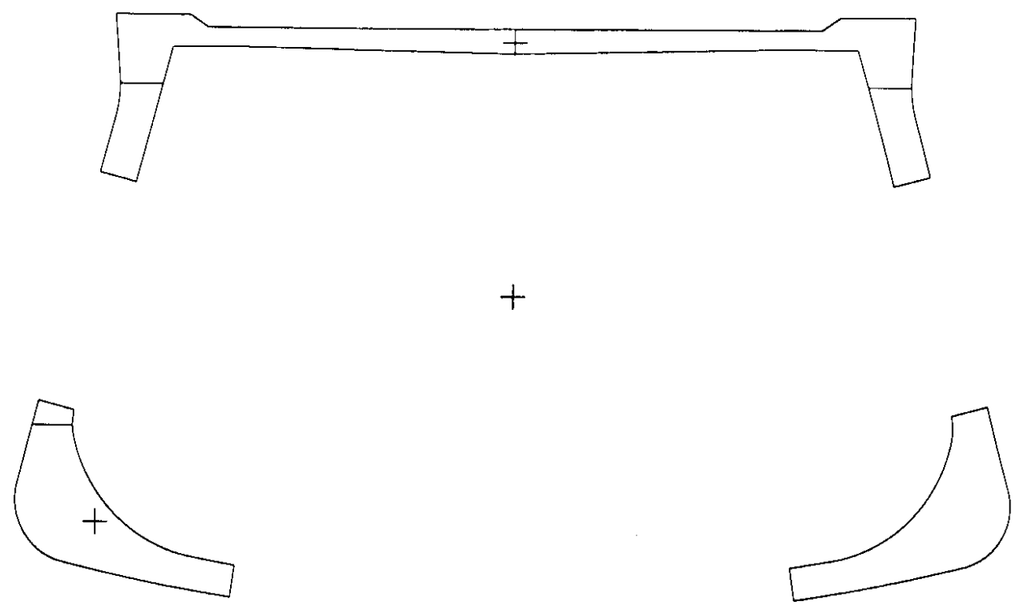


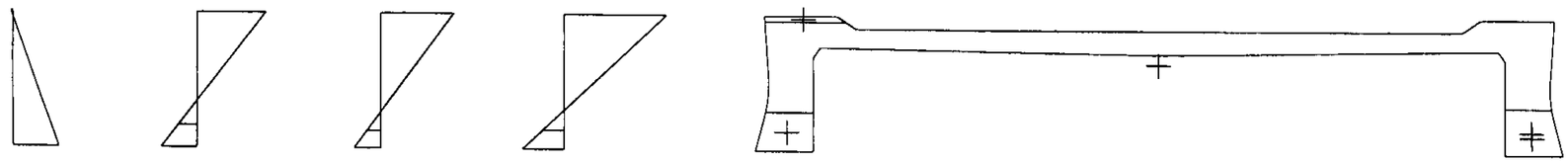
Sección (barra-nudo)	σ_{sup}	σ_{inf}	A	σ_n	M_1	$A_s(cm^2)$
9 - 16	−68.20	166.8	1.103	35.10	581.	131
18.19.	−43.24	119.3	1.020	22.24	340.3.	76,73
80 - 170	−58.07	111.6	1.282	30.14	579.	131
91. 181	75.0	−13.1	0.24	1.64	5.90	1.16

Puente Principal

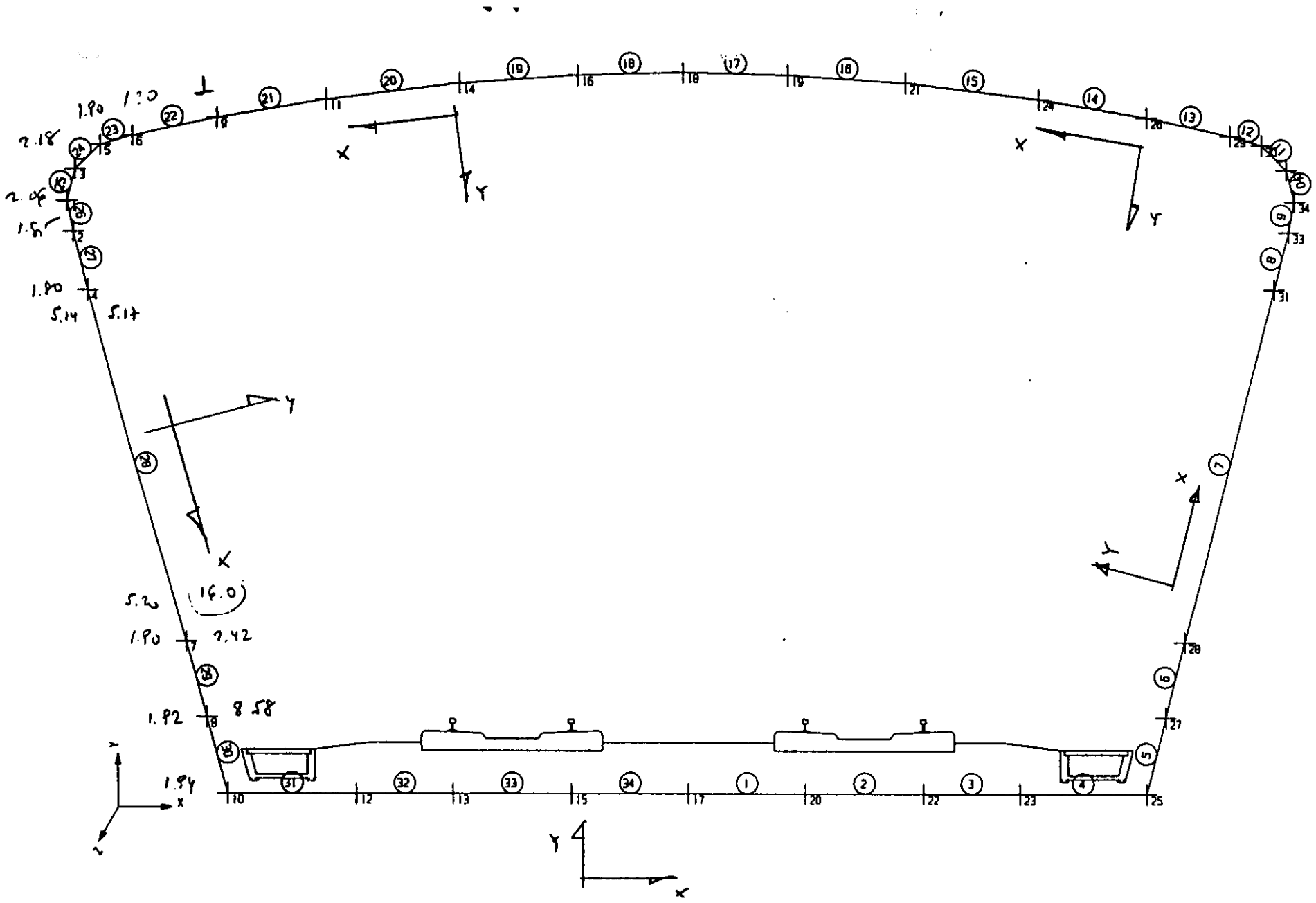
Sección	σ_{sup}	σ_{inf}	A	σ_n	M_1	$A_s(cm^2)$
132.151	−42.4	202				
252.413	−11.88	82.61				
213. 418	−59.09	145.53	7.52	33.51	3780.	852
162.291	139	−17.38				L: 20. 2 ϕ12 c/10
223 418	201	−27.0	5.13.	16.92	1454.	328
						ϕ12 c/12 + ϕ12 c/24 + ϕ12 c/24





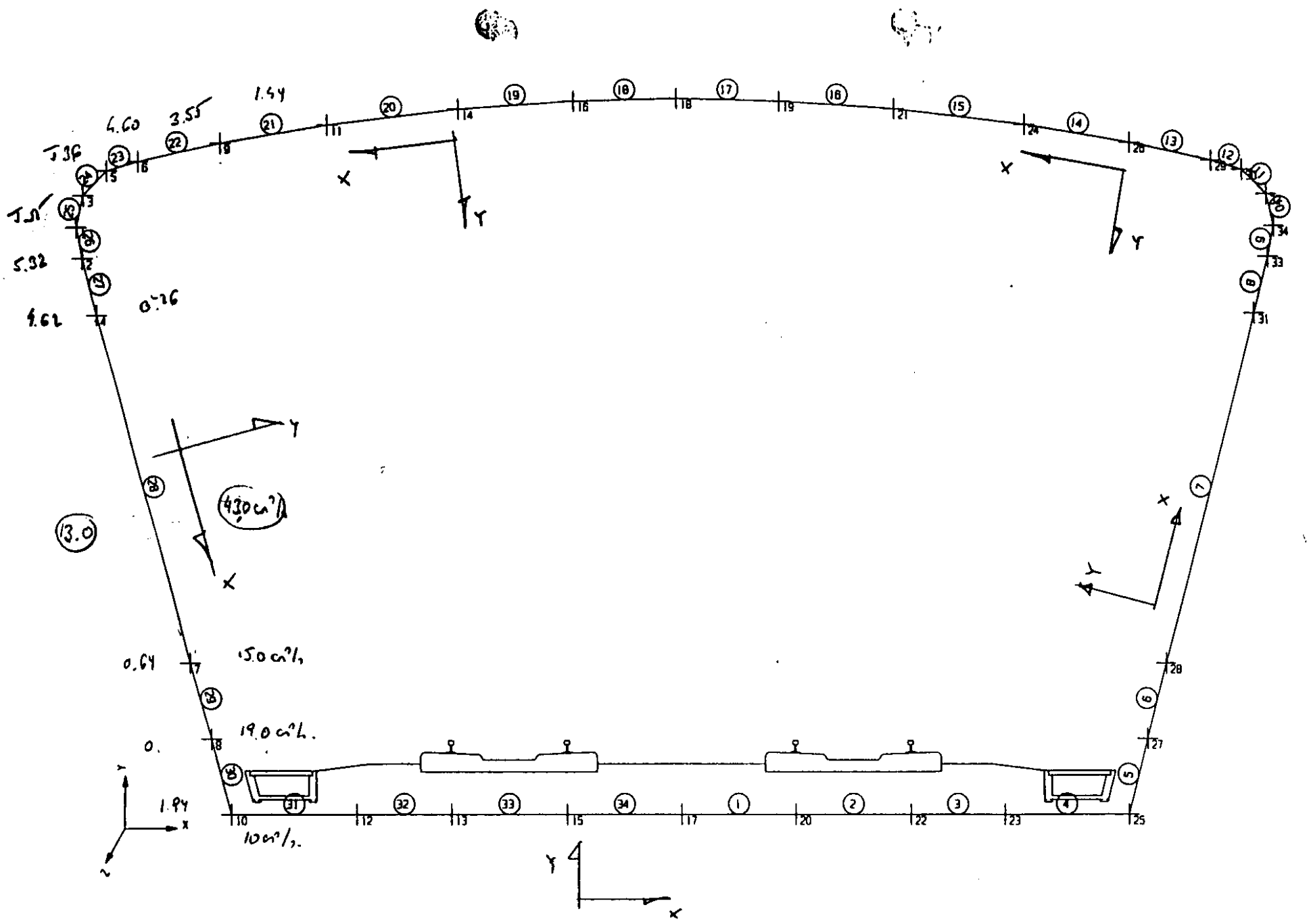


Armadura de flexion transversal



(VALORES EN CM^2/M)

ARMADURA FLEXION TRANSVERSAL
(CON PRETENSADO DE ALMAS)
N=4

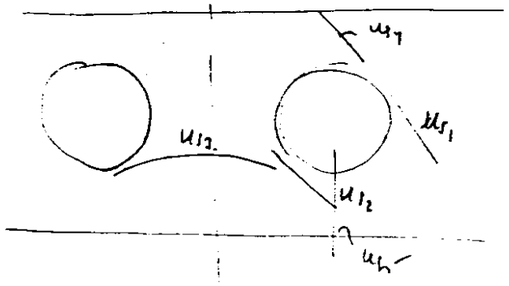


ARMADURA FLEXION TRANSVERSAL
(SIN PRETENSADO DE ALMAS)

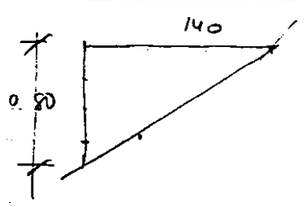
Armadura longitudinal

ARMADURA ESPECIAL EN ZONA DE APOYOS

Pila P-2 - Hipótesis de Viento



- Armadura U_{I1}



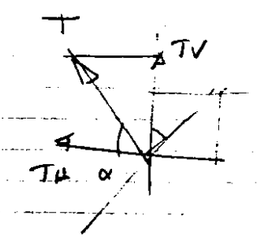
$U_{I1} = 1.5 \cdot 140 \cdot \frac{1}{2} \cdot 0.80 \cdot 0.50 = 42 \text{ T}$

$A_{I1} = 1.00 \text{ cm}^2$ → 2 capas 10 ϕ 25 + capa ϕ 20

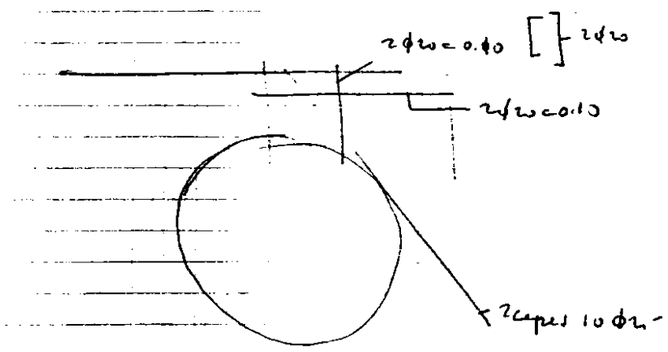
- Armadura U_{I4}

$\sigma_t = 70 \text{ kp/cm}^2$. $U_{I4} = 1.5 \cdot 70 \cdot 0.50 = 52.5 \text{ T/m} \Rightarrow$ $A_s = 125 \text{ cm}^2/\text{m}$.

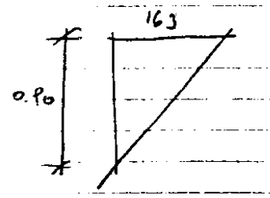
(2 ϕ 20 c a 15)
en cada cara



$T_V = \frac{T \cos \alpha}{\text{Sen } \alpha}$ $\alpha = 45°$ $T_V = T_H = T$ en T/m



- Armadura U_{I2}



$U_{I2} = \frac{1}{2} 1.5 \cdot 163 \cdot 0.80 \cdot 0.50 = 55.0 \text{ T}$

$A_s = 13.1 \text{ cm}^2$ 3 capas. 10 ϕ 20

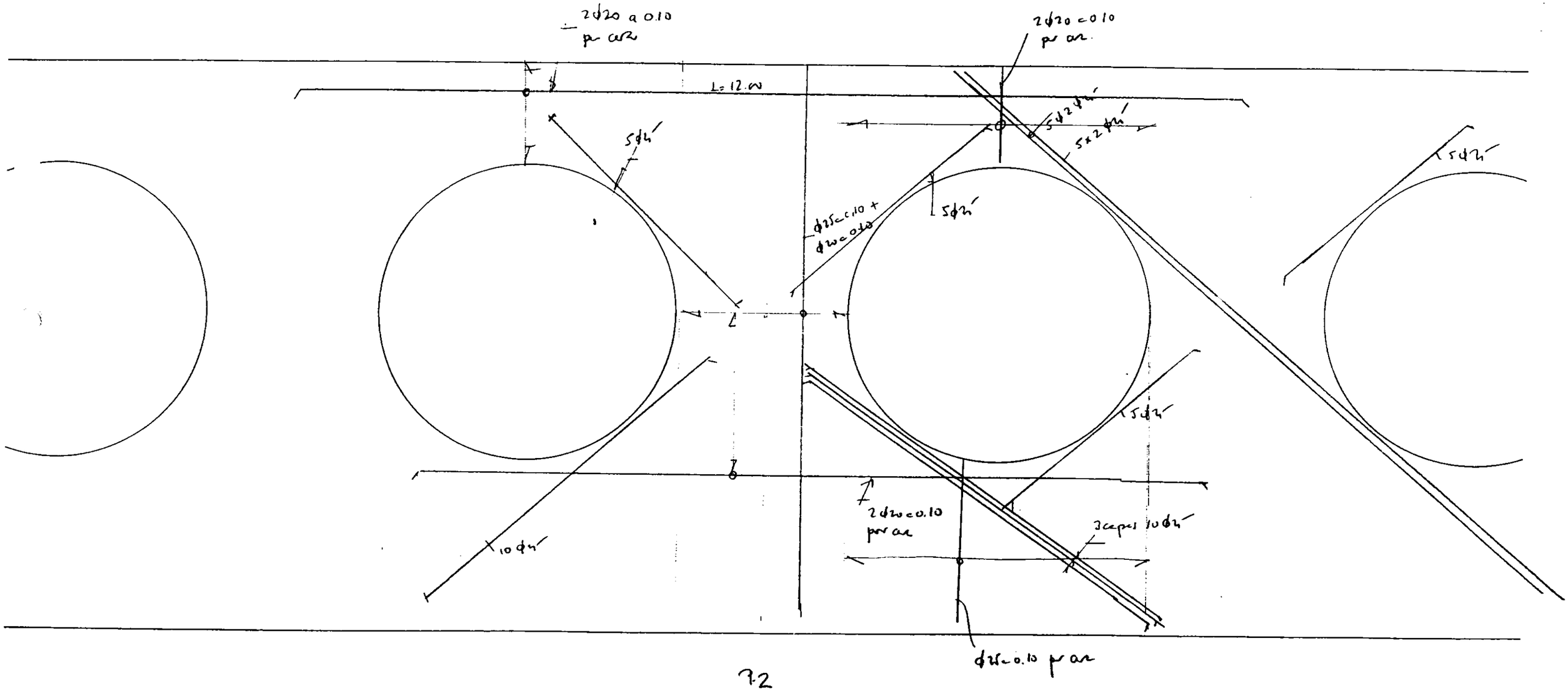
- Armadura U_{I3}

$\sigma_t = 60 \text{ kp/cm}^2$ → $U_{I3} = 1.5 \cdot 60 \cdot 0.50 = 45.0 \text{ T/m}$ → $A_s = 10.7 \text{ cm}^2/\text{m}$.

2 ϕ 20 c 0.20 por cara

- Armadura U_{I4}

$\sigma_t = 50 \text{ kp/cm}^2$ $U_{I4} = 1.5 \cdot 50 \cdot 0.50 = 37.5 \text{ T/m}$ $A_s = 8.28 \text{ cm}^2/\text{m}$.



P2

ARMADURA DE ALA EN P2

E 1/50

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

ESTUDIO DE LA ARMADURA LONGITUDINAL

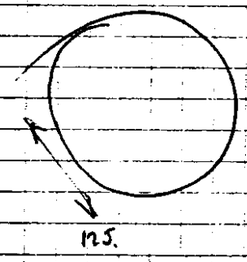
. Zonas especiales

La zona de apoyo sobre pilas. Separa cuadro especial

. La parte de apoyo

. La pila en tramos longitudinales no acopla por el momento dichos.

. La zona de alejamiento antes del empalme



$M_f = 1,50 \cdot 1250 \cdot 0,50 \cdot 0,50 = 470 \, T$ $A_s = 111,61 \, cm^2$

ANALISIS DE TENSIONES

PROCESO CONSTRUCTIVO

Hipo 531 : Flect Z. Max. (Envolvente)

Barra	28	en 59	−6.35	131,23
"	29	en 59	"	"
"	29	en 58	−12,81	135,28

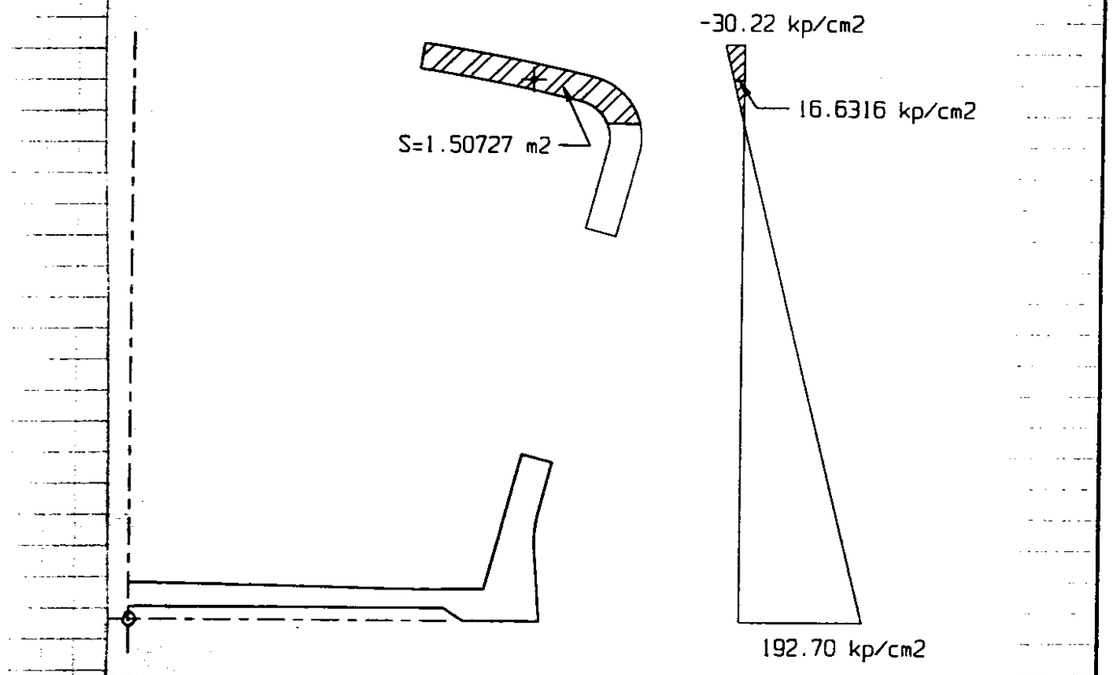
SERVICIO

Hip. 98 : Flect. Z. Max. (T=∞)

Barra	Nudo	σsup.	σinf.
50	55	−13,89	181,63
51	55	−13,89	181,63
51	56	−30,22	192,70
52	56	−30,12	192,67
52	59	+0,72	172,95

ARMADURA POR VOLUMEN DE TRACCION

Para σsup = −30,22 y σinf = 192,70 m.



$V = 1,5073\ m^2 \times 16,63\ Tn/m^2 \times 10 = 250,66\ Tn.$

$\omega = \frac{250,66 \times 1,50 \times 1,15}{5,1} = 84,78\ cm^2$

$\frac{84,78}{4,91} = 17,26$

Se reforzará con **20 ϕ 25**

(Longitud 12,00 m)

(8 + 4)

ARMADURA DE COSTILLAS



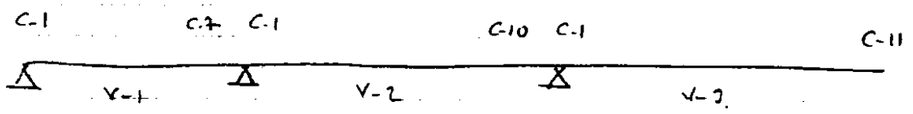
DIMENSIONAMIENTO DE LAS CAPITELAS SUPERIORES

Elementos 1291 a 1293.

VANO 3 C-1 a C-11 ✓ 378 — 1290

VANO 2 C-1 a C-10. 2581 a 2593. 1632,

VANO 1 C-1 a C-7 3484 — 3496, 2962 a 3357



Pilares: 6, 7, 10, 11

Pilares	b	h
6	0.20	0.41
7	0.40	0.41
10	0.20	0.40
11	0.40	0.40

Elemento con b=0.20 3484 a 3496 1288 a 1290

COMPROBACIÓN DE ESTRUCTURAS COMPLEMENTARIAS

Si bien los capiteles en la zona de apoyo de encuentro forjado son macizos, en la zona de apoyo, en la sección recta en la capitela de apoyo de encuentro empotrado, dada la esbeltez de los pilares es conveniente analizar los pilares de 2º orden.

- Esbeltez mecánica $l = 9.15$

$$\lambda = \frac{l}{i} \qquad \left| \begin{array}{l} l = 9.15 \\ i = \sqrt{\frac{I}{A}} = \sqrt{\frac{\frac{1}{12}0.40^4}{0.40^2}} = \frac{0.40}{\sqrt{12}} = 0.12 \end{array} \right\} \quad \lambda = \frac{9.15}{0.12} = 80$$

- $\lambda < 100$ Es aplicable el método simplificado de la EH.91.

- Excentricidad adicional

$$e_a = \left(0.8 + \frac{f_{yd}}{12000}\right) \frac{h + 20 e_0}{h + 10 e_0} \frac{l_0^2}{i} 10^{-4}$$

e_0 = excentricidad 1º orden

$$f_{yd} = \frac{4200}{\sqrt{3}} = 443 \text{ kp/cm}^2$$

$$e_a = \left(0.8 + \frac{443}{12000}\right) \frac{9.15^2}{0.12} 10^{-4} \frac{0.40 + 20 e_0}{0.40 + 10 e_0} = 0.085 \frac{0.40 + 20 e_0}{0.40 + 10 e_0}$$

Por tanto

Si $\eta_{d_i} \leq 0 \Rightarrow \eta^*_{d_i} = \eta_{d_i} + \text{Sign}(\eta_{d_i}) \cdot \eta_{d_i}$ la

Apr 21 09:06 1995 armacos.a Page 1

```
# programa que calcula la armadura de la salida del elefin
# con elementos lamina (caso especial costillas superiores)
#
BEGIN{
fcd=6000/1.5
fyd=5./1.15
fydc=4.
b=1.00
bb=1.0
h=0.40
r=0.03
cm=1.5
cn=1.0
ind=1
inde=0
ipan=1
}
{
if (ind==1 && $1!="ESFUERZOS") print $0
}
/ESFUERZOS/,/RESULTANTES/{
if(ind)
   {
   ind=0
   printf"ARMADURA EN ELEMENTOS \n\n"
   printf"fcd=%6.0f    fyd=%6.1f\n",fcd,fyd
   printf"Cm =%6.1f    Cn =%6.1f\n\n",cm,cn
   printf"ELEM.  P.      X       Y      Mx      My     Mxy     Nx"
   printf"      Ny      Nxy    AsupX.   AinfX.   AsupY.   AinfY.\n\n"
   }
if (NF==12 && $1!="ELEM.")
   {
   bb=0.40
   if($1>=3484 && $1<=3486) bb=0.20
   if($1>=1288 && $1<=1290) bb=0.20
   d=h-r
   dr=d-r
   uc=fcd*b*d
   umf=0.04*uc
   mp=0.35*uc*d
   mx=$5
   my=$6
   mt=abs($7)
   q=0.5*(mx-my)
   p=sqrt(q*q+mxy*mxy)
   q=0.5*(mx+my)
```

```
   m1=q+p
   m2=q-p
   max=abs(m1)
   if(abs(m2)>max)max=abs(m2)
   nx= -$(10)
   ny= -$(11)
   nxy=$(12)
   mdx=cm*(mx+sign(mx)*mt)
   if(mx*my<0.)
     mdx=cm*(mx+sign(mx)*mt*mt/abs(my))
   if(abs(mdx)>cm*max)mdx=cm*max*sign(mx)
   ndx=cn*nx
#
# excentricidad adicional por pandeo
#
   if(ndx>0.&& ipan==1)
      {
      e0=abs(mdx/ndx)
      ea=0.085*(0.40+20*e0)/(0.40+10*e0)
      mdx=mdx+sign(mdx)*ndx*ea
      }
 armad(ndx,mdx)
 if(asup<amin)
   {
   asx=amin
   csx="*"
   }
 else
   {
   asx=asup
   csx=" "
   }
 if(ainf<amin)
   {
   aix=amin
   cix="*"
   }
 else
   {
   aix=ainf
   cix=" "
   }
mdy=cm*(my+sign(my)*mt)
if(mx*my<0.)
  mdy=cm*($6+sign(my)*mt*mt/abs(mx))
if(abs(mdy)>cm*max)mdy=cm*max*sign(my)
```



```
   ndy=cn*ny
#
# excentricidad adicional por pandeo
#
   if(ndy>0.&& ipan==1)
      {
      e0=abs(mdy/ndy)
      ea=0.085*(0.40+20*e0)/(0.40+10*e0)
      mdy=mdy+sign(mdy)*ndy*ea
      }
   armad(ndy,mdy)
   if(asup<amin)
     {
     asy=amin
     csy="*"
     }
   else
     {
     asy=asup
     csy=" "
     }
    if(ainf<amin)
     {
     aiy=amin
     ciy="*"
     }
    else
     {
     aiy=ainf
     ciy=" "
     }
    asx=asx*bb
    asy=asy*bb
    aix=aix*bb
    aiy=aiy*bb
    printf"%5d%4d%8.2f%8.2f%8.1f%8.1f%8.1f",$1,$2,$3,$4,$5,$6,$7
    printf"%8.1f%8.1f%8.1f",-nx,-ny,nxy
    printf"%9.2f%s%8.2f%s%8.2f%s%8.2f%s\n",asx,csx,aix,cix,asy,csy,aiy,ciy
    }
}
function armad(ax,fl)
{
f=fyd
if(ax==0.)
  {
  umc=0.
```

```
  p=(abs(fl)-mp)/dr
  u2=0.
  if(p>0.)u2=p
  p=1.-2.*(abs(fl)-u2*dr)/uc/d
  u1=uc*(1.-sqrt(p))+u2
  )
else
  {
  umc=0.05*abs(ax)
  e=abs(fl)/ax+0.5*dr
  u2=(ax*e-mp)/dr
  if(u2<0.)u2=0.
  if(u2<umc)u2=umc
  if(ax*e<0.)
    {
    umc=0.
    umf=0.04*fcd*b*h
    u1=abs(ax)*(dr-e)/dr
    u2=abs(ax)-u1
    }
   else
    {
    if(ax-u2>0.7*uc)
      {
      u1=ax-0.7*uc-u2
      f=fydc
      }
    if(ax-u2<=0.45*uc)
      {
      p=1.-2.*(ax*e-u2*dr)/uc/d
      u1=uc*(1.-sqrt(p))+u2-ax
      }
    if(ax-u2>0.45*uc && ax-u2<=0.7*uc)
      {
      u1=umf
      if(umc>umf)u1=umc
      }
    }
  }
asup=u1/f
if(fl>0.)asup=u2/fydc
ainf=u1/f
if(fl<0.)ainf=u2/fydc
amin=umc/fydc
if(umf>umc)amin=umf/fyd
}
```



```
function abs(x)
{
a=x
if(x<0.)
  a = -x
return a
}
function sign(x)
{
a=1.
if(x<0.)
  a = -1.
return a
}
```

Hipótesis de máxima flexión

HIPOTESIS NUMERO 7

hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	NXY
379	1	0.36	0.08	7.74	0.06	0.78	25.84	3.57	207.90	9.49	-3.58
379	2	1.35	0.08	40.41	-0.55	-7.79	35.29	-32.54	208.35	81.02	-24.60
379	3	1.35	0.32	38.17	-2.61	6.27	28.18	27.33	230.33	-47.25	24.47
379	4	0.36	0.32	9.19	0.41	-0.39	35.23	1.80	231.07	11.26	2.43
380	1	0.32	0.08	-24.22	-0.57	0.38	14.89	1.56	208.46	1.81	-2.85
380	2	1.19	0.08	-7.81	0.95	1.00	19.95	4.62	209.15	-18.81	15.32
380	3	1.19	0.32	-8.99	1.16	-1.79	16.57	-8.50	232.50	6.30	-15.72
380	4	0.32	0.32	-33.43	-0.43	-0.26	19.49	1.22	232.35	1.27	-1.55
381	1	0.28	0.08	30.76	-0.09	-0.97	6.85	1.33	208.69	0.76	0.32
381	2	1.06	0.08	35.57	-0.03	0.19	4.48	0.75	208.33	0.00	3.66
381	3	1.06	0.32	35.44	-0.10	-0.15	6.02	0.60	234.66	1.92	-3.56
381	4	0.28	0.32	31.34	0.13	0.68	5.55	-2.31	234.27	-5.33	-0.70
382	1	0.36	0.08	4.70	-0.22	0.33	-2.62	0.16	-27.52	18.96	-13.62
382	2	1.35	0.08	8.55	0.96	-1.85	6.21	-2.38	-27.07	18.95	9.47
382	3	1.35	0.32	6.33	-1.03	0.48	-0.96	-0.60	-15.94	-59.54	-8.61
382	4	0.36	0.32	6.15	0.13	0.07	5.49	2.10	-15.20	20.76	13.68
383	1	0.32	0.08	2.98	-0.19	0.14	-1.14	0.61	-28.22	10.24	-10.08
383	2	1.19	0.08	4.98	0.05	-0.15	3.24	-1.12	-27.53	-29.16	15.34
383	3	1.19	0.32	3.79	0.23	-0.51	0.16	-1.71	-14.88	-4.00	-15.54
383	4	0.32	0.32	3.76	-0.05	-0.04	2.41	0.47	-14.05	5.42	9.38
384	1	0.28	0.08	-3.22	-0.13	-0.26	1.21	0.71	-28.53	-3.58	-8.81
384	2	1.06	0.08	-2.57	0.04	0.05	-0.44	0.00	-28.88	0.99	8.90
384	3	1.06	0.32	-2.70	-0.02	-0.07	0.26	-0.04	-13.21	2.85	-8.70
384	4	0.28	0.32	-2.65	0.09	0.08	0.51	-0.23	-13.59	-10.66	8.93
385	1	0.36	0.08	5.54	-0.31	0.08	-16.58	0.98	-146.78	34.68	-26.38
385	2	1.35	0.08	-5.69	1.51	1.01	-9.17	5.36	-146.36	-15.99	36.73
385	3	1.35	0.32	-7.59	-0.16	-2.08	-15.47	-11.33	-144.23	-84.27	-36.86
385	4	0.36	0.32	6.77	-0.01	0.28	-10.46	2.09	-143.53	36.05	26.25
386	1	0.32	0.08	19.30	0.00	0.00	-9.07	-0.02	-148.13	19.72	-19.10
386	2	1.19	0.08	13.75	-0.41	-0.60	-5.53	-3.73	-147.48	-40.42	23.59
386	3	1.19	0.32	12.74	-0.25	0.10	-8.07	1.85	-143.74	-21.02	-23.78
386	4	0.32	0.32	19.96	0.12	0.07	-6.66	2.58	-142.99	19.07	18.91
387	1	0.28	0.08	-22.92	-0.12	0.09	-1.73	-0.57	-148.72	-10.90	-18.44
387	2	1.06	0.08	-24.46	0.08	-0.03	-2.91	0.42	-149.04	2.67	16.09
387	3	1.06	0.32	-24.57	0.02	-0.02	-2.76	-0.42	-142.37	4.12	-16.00
387	4	0.28	0.32	-22.44	0.06	-0.20	-2.04	0.68	-142.74	-16.38	18.55
514	1	0.36	0.08	7.61	-0.34	0.04	-18.60	0.31	-169.27	47.71	-35.65
514	2	1.35	0.08	-7.39	1.49	1.56	-13.39	9.02	-169.38	-32.90	46.28
514	3	1.35	0.32	-8.62	0.44	-2.23	-17.82	-12.86	-171.91	-102.13	-46.30
514	4	0.36	0.32	8.43	-0.15	0.23	-14.99	1.63	-171.74	49.10	35.66
515	1	0.32	0.08	24.71	0.01	0.01	-10.41	-0.17	-170.41	26.51	-25.85
515	2	1.19	0.08	17.23	-0.46	-0.62	-7.82	-4.46	-169.88	-51.65	33.11
515	3	1.19	0.32	16.56	-0.37	0.32	-9.62	3.31	-172.31	-31.96	-33.26
515	4	0.32	0.32	25.15	0.09	0.04	-9.06	0.51	-171.63	25.85	25.68
516	1	0.28	0.08	-28.93	-0.12	0.13	-2.45	-0.80	-170.97	-15.70	-24.76
516	2	1.06	0.08	-31.05	0.09	-0.01	-3.42	0.53	-171.16	3.87	21.89
516	3	1.06	0.32	-31.13	0.06	-0.03	-3.45	-0.54	-171.34	5.39	-21.83

516	4	0.28	0.32	-28.61	0.00	-0.18	-2.60	0.82	-171.57	-21.24	24.82
643	1	0.36	0.08	10.09	-0.26	-0.03	-17.16	-0.47	-166.94	59.40	-43.16
643	2	1.35	0.08	-5.26	1.08	1.82	-14.49	9.10	-167.06	-91.64	50.57
643	3	1.35	0.32	-5.78	0.66	-1.67	-16.23	-10.34	-170.31	-80.88	-50.60
643	4	0.36	0.32	10.42	-0.18	0.14	-15.91	1.09	-170.14	59.39	43.17
644	1	0.32	0.08	26.84	0.01	-0.01	-9.79	-0.43	-168.08	31.51	-31.30
644	2	1.19	0.08	19.14	-0.42	-0.42	-8.31	-3.80	-167.63	-50.81	41.84
644	3	1.19	0.32	18.87	-0.39	0.32	-8.88	2.60	-170.61	-51.03	-41.96
644	4	0.32	0.32	27.02	0.09	0.02	-9.43	0.35	-170.02	31.53	31.15
645	1	0.28	0.08	-30.78	-0.07	0.12	-2.56	-0.73	-168.62	-22.41	-29.54
645	2	1.06	0.08	-32.99	0.08	-0.01	-3.31	0.65	-168.78	5.68	26.69
645	3	1.06	0.32	-33.02	0.07	-0.02	-3.48	-0.59	-169.77	5.67	-26.63
645	4	0.28	0.32	-30.65	-0.03	-0.13	-2.41	0.61	-169.98	-22.33	29.60
772	1	0.36	0.08	11.31	0.20	-0.07	-15.83	-0.90	-160.85	64.95	-46.87
772	2	1.35	0.08	-3.69	0.81	1.26	-14.46	8.63	-160.98	-87.96	51.48
772	3	1.35	0.32	-3.79	0.74	-1.28	-14.86	-8.66	-164.72	-87.87	-51.49
772	4	0.36	0.32	11.38	-0.19	0.09	-15.83	0.84	-164.56	64.97	46.87
773	1	0.32	0.08	27.28	0.01	-0.02	-9.17	-0.53	-161.88	34.12	-33.98
773	2	1.19	0.08	19.74	-0.39	-0.29	-8.18	-3.36	-161.53	-55.46	46.52
773	3	1.19	0.32	19.68	-0.39	0.29	-8.24	3.47	-164.98	-55.43	-46.62
773	4	0.32	0.32	27.31	0.02	0.01	-9.26	0.34	-164.43	34.12	33.86
774	1	0.28	0.08	-30.93	-0.04	0.11	-2.46	-0.57	-162.36	-24.29	-31.30
774	2	1.06	0.08	-33.11	0.07	-0.02	-3.20	0.62	-162.49	6.20	29.09
774	3	1.06	0.32	-33.11	0.07	-0.01	-3.37	-0.59	-164.31	6.20	-29.05
774	4	0.28	0.32	-30.90	-0.03	-0.10	-2.26	0.52	-164.48	-24.26	31.85
901	1	0.36	0.08	12.21	-0.16	-0.04	-13.13	-0.99	-140.40	67.29	-48.15
901	2	1.35	0.08	-0.54	0.59	0.74	-12.26	6.50	-140.53	-99.50	49.00
901	3	1.35	0.32	-0.49	0.63	-0.66	-12.29	-6.00	-145.40	-90.49	-49.02
901	4	0.36	0.32	12.18	-0.17	0.05	-13.71	0.70	-145.26	67.32	48.16
902	1	0.32	0.08	25.66	-0.02	0.00	-7.69	-0.55	-141.22	34.94	-34.92
902	2	1.19	0.08	19.25	-0.31	-0.14	-6.90	-2.75	-140.96	-57.34	49.04
902	3	1.19	0.32	19.27	-0.31	0.19	-6.79	3.02	-145.59	-57.07	-49.12
902	4	0.32	0.32	25.65	-0.02	-0.01	-8.04	0.28	-145.20	34.93	34.82
903	1	0.28	0.08	-28.72	-0.03	0.06	-2.04	-0.45	-141.60	-24.91	-32.36
903	2	1.06	0.08	-30.58	0.07	-0.01	-2.73	0.60	-141.69	6.41	30.02
903	3	1.06	0.32	-30.57	0.07	-0.02	-2.94	-0.58	-145.07	6.43	-29.99
3	4	0.28	0.32	-28.73	-0.03	-0.03	-1.80	0.26	-145.21	-24.97	32.40
030	1	0.36	0.08	13.15	-0.14	0.01	-9.38	-1.10	-111.22	69.68	-49.28
1030	2	1.35	0.08	3.78	0.33	-0.01	-9.01	3.49	-111.37	-92.15	44.67
1030	3	1.35	0.32	3.97	0.53	0.17	-8.40	-2.41	-116.01	-91.03	-44.67
1030	4	0.36	0.32	13.03	-0.17	-0.05	-10.40	0.36	-115.86	69.66	49.29
1031	1	0.32	0.08	22.92	-0.08	0.03	-5.57	-0.44	-111.80	35.58	-35.74
1031	2	1.19	0.08	18.19	-0.17	0.02	-5.04	-1.83	-111.65	-58.69	51.93
1031	3	1.19	0.32	18.28	-0.20	0.07	-4.63	2.44	-116.05	-59.00	-51.98
1031	4	0.32	0.32	22.85	-0.09	-0.06	-6.14	0.16	-115.76	35.59	35.68
1032	1	0.28	0.08	-25.10	-0.02	-0.03	-1.47	-0.05	-112.07	-25.57	-32.68
1032	2	1.06	0.08	-26.48	0.06	0.01	-2.05	0.51	-112.13	6.66	30.92
1032	3	1.06	0.32	-26.47	0.07	-0.05	-2.36	-0.45	-115.65	6.63	-30.90
1032	4	0.28	0.32	-25.15	-0.04	0.02	-1.10	-0.13	-115.75	-25.47	32.21
1159	1	0.36	0.08	13.43	-0.17	0.06	-9.14	-0.59	-105.50	78.26	-55.03
1159	2	1.35	0.08	5.48	0.44	-0.42	-7.35	1.42	-105.66	-103.24	46.96
1159	3	1.35	0.32	5.31	0.28	0.30	-7.78	-2.07	-102.86	-100.81	-46.95
1159	4	0.36	0.32	13.53	-0.14	-0.04	-8.38	0.96	-102.73	78.21	55.05
1160	1	0.32	0.08	22.07	-0.11	0.06	-5.42	-0.24	-105.78	39.64	-39.92
1160	2	1.19	0.08	18.05	-0.17	0.00	-4.10	-2.19	-105.76	-65.54	58.94
1	3	1.19	0.32	17.96	-0.15	-0.06	-4.28	1.88	-103.00	-66.24	-58.96
1160	4	0.32	0.32	22.13	-0.10	-0.06	-5.01	0.38	-102.84	39.66	39.89
1161	1	0.28	0.08	-24.10	-0.03	-0.10	-1.07	0.10	-105.94	-28.60	-36.27
1161	2	1.06	0.08	-25.26	0.07	0.03	-2.07	0.56	-105.96	7.48	34.64
1161	3	1.06	0.32	-25.27	0.06	-0.04	-1.91	-0.52	-102.65	7.44	-34.62
1161	4	0.28	0.32	-24.06	-0.02	0.07	-1.05	-0.03	-102.91	-28.41	36.28
1288	1	0.36	0.04	-9.70	0.00	0.02	144.74	-2.76	-240.23	3.22	9.47
1288	2	1.35	0.04	-10.03	-1.69	4.04	-105.24	8.79	-284.74	-219.33	33.45
1288	3	1.35	0.16	-8.86	-1.46	3.96	-76.32	9.71	-277.75	-217.93	23.07
1288	4	0.36	0.16	-8.53	0.23	-0.06	144.67	3.06	-233.24	9.62	-0.92
1289	1	0.32	0.04	-17.00	0.24	0.03	210.98	-5.54	-264.01	-0.78	-3.09
1289	2	1.19	0.04	-17.17	-0.60	-1.09	-175.44	-2.02	-252.20	58.29	-13.98
1289	3	1.19	0.16	-17.54	-0.68	-1.13	-184.38	1.50	-255.81	57.55	-10.85
1289	4	0.32	0.16	-17.37	0.16	-0.02	210.10	5.39	-267.62	-1.50	0.05
1290	1	0.28	0.04	-23.78	-0.34	0.11	244.47	-6.85	-258.95	3.18	2.66
1290	2	1.06	0.04	-23.86	-0.70	0.33	-236.02	-5.32	-262.56	-14.89	5.11
1290	3	1.06	0.16	-23.78	-0.69	0.30	-233.87	6.90	-261.65	-19.71	9.09
1290	4	0.28	0.16	-23.70	-0.32	0.09	245.05	6.46	-258.04	2.37	1.59
1291	1	0.36	0.08	12.89	0.42	1.09	59.33	1.59	458.69	29.44	-13.49
1291	2	1.35	0.08	72.28	-3.16	-13.06	60.58	-53.96	459.19	-18.76	-61.05
1291	3	1.35	0.32	72.27	-3.17	13.05	60.59	53.86	456.96	-17.92	60.90
291	4	0.36	0.32	12.89	0.42	-1.09	59.43	-1.52	457.75	29.42	13.33
1292	1	0.32	0.08	-49.36	-0.94	0.59	33.53	1.22	459.21	7.49	-10.24
1292	2	1.19	0.08	-19.66	2.00	2.57	34.66	12.53	460.66	-19.92	37.16
1292	3	1.19	0.32	-19.66	2.00	-2.58	34.67	-12.60	460.81	-20.15	-37.38
1292	4	0.32	0.32	-49.37	-0.94	-0.60	33.67	-1.18	461.72	7.46	10.02
1293	1	0.28	0.08	63.33	0.06	-1.53	11.50	5.45	460.51	-6.97	-2.85
1293	2	1.06	0.08	71.90	-0.12	0.32	10.48	-1.23	460.13	2.75	11.19
1293	3	1.06	0.32	71.90	-0.12	-0.32	10.59	1.24	463.69	2.75	-11.08
1293	4	0.28	0.32	63.33	0.06	1.52	11.48	-5.41	463.27	-6.86	2.97
1672	1	0.36	0.08	7.89	-0.11	0.25	-2.51	1.63	-33.56	25.00	-17.27
1672	2	1.35	0.08	10.38	0.58	-1.91	4.30	-7.27	-31.80	-36.04	14.86
1672	3	1.35	0.32	8.78	-0.90	0.89	-0.69	1.14	-24.07	-29.07	-15.29
1672	4	0.36	0.32	8.90	0.14	0.03	3.72	1.88	-22.03	24.90	17.32
1673	1	0.32	0.08	6.94	-0.17	0.10	-1.36	0.55	-35.59	12.62	-12.38
1673	2	1.19	0.08	8.21	0.05	0.02	2.33	-0.63	-24.39	-20.02	18.64
1673	3	1.19	0.32	7.40	0.21	-0.55	0.10	-1.88	-20.96	-22.00	-19.00
1673	4	0.32	0.32	7.47	-0.07	-0.03	1.67	0.57	-19.61	12.70	12.55
1674	1	0.28	0.08	-7.17	-0.07	-0.26	1.10	0.88	-36.06	-9.41	-11.49
1674	2	1.06	0.08	-6.76	0.03	0.04	-0.74	-0.02	-36.30	2.44	11.09
674	3	1.06	0.32	-6.85	-0.02	-0.02	0.22	-0.07	-18.27	2.33	-11.04
1674	4	0.28	0.32	-6.78	0.08	0.08	0.28	-0.26	-19.04	-8.82	11.58
1675	1	0.36	0.08	8.04	-0.25	0.19	-11.39	1.59	-105.59	10.03	-8.48
1675	2	1.35	0.08	1.12	1.23	-0.11	-5.16	1.45	-103.93	-19.33	19.20
1675	3	1.35	0.32	-0.37	-0.13	-0.77	-10.12	-6.84	-104.57	-13.58	-19.59
1675	4	0.36	0.32	8.98	-0.02	0.10	-6.21	1.45	-102.64	9.95	8.94
1676	1	0.32	0.08	16.88	-0.08	0.10	-6.40	0.50	-108.86	6.30	-6.16
1676	2	1.19	0.08	13.43	-0.14	-0.39	-3.12	-2.58	-107.03	-8.40	4.74
1676	3	1.19	0.32	12.67	-0.01	-0.06	-5.25	0.49	-101.74	-10.06	-5.25
1676	4	0.32	0.32	17.38	0.01	-0.01	-4.00	0.38	-99.77	6.37	5.67
1677	1	0.28	0.08	-19.28	-0.13	-0.10	-0.72	0.03	-109.74	-4.53	-6.38
1677	2	1.06	0.08	-20.22	0.05	0.06	-2.27	0.68	-109.93	1.02	4.89
1677	3	1.06	0.32	-20.31	0.01	-0.05	-1.64	-0.15	-98.90	0.92	-4.76
1677	4	0.28	0.32	-18.92	0.01	-0.04	-1.38	0.41	-99.13	-4.05	6.46
1678	1	0.36	0.08	9.40	-0.25	0.05	-16.26	0.77	-152.74	17.45	-14.50
1678	2	1.35	0.08	-3.74	1.25	0.98	-11.98	6.78	-151.11	-26.46	31.84
1678	3	1.35	0.32	-4.66	0.43	-1.54	-14.94	-10.09	-153.56	-30.16	-32.23
1678	4	0.36	0.32	9.98	-0.11	0.11	-12.98	1.08	-151.66	17.55	14.07
1679	1	0.32	0.08	24.22	-0.01	0.04	-9.29	0.18	-156.29	10.91	-10.69
1679	2	1.19	0.08	17.63	-0.28	-0.50	-6.90	-3.34	-154.50	-16.55	8.85
1679	3	1.19	0.32	17.17	-0.20	0.21	-8.11	2.08	-150.92	-15.48	-9.35

1679	4	0.32	0.32	24.52	0.05	0.00	-7.74	0.35	-148.99	10.89	10.00
1680	1	0.28	0.08	-27.80	-0.11	0.03	-1.92	-0.44	-157.27	-7.26	-10.95
1680	2	1.06	0.08	-29.66	0.06	0.04	-3.23	0.25	-157.47	1.64	8.32
1680	3	1.06	0.32	-29.71	0.03	-0.03	-2.81	-0.28	-148.22	1.73	8.28
1680	4	0.28	0.32	-27.58	-0.02	-0.12	-2.31	0.71	-148.45	-7.56	11.04
1807	1	0.36	0.08	10.22	-0.24	-0.03	-17.64	0.00	-175.02	18.77	-15.43
1807	2	1.35	0.08	-6.21	1.10	1.63	-15.93	10.37	-175.10	-31.55	35.46
1807	3	1.35	0.32	-6.37	0.98	-1.74	-16.38	-10.97	-174.98	-29.74	-35.49
1807	4	0.36	0.32	10.32	-0.22	0.05	-16.98	0.33	-174.78	18.74	15.45
1808	1	0.32	0.08	27.65	0.03	0.02	-10.18	-0.04	-176.71	11.77	-11.20
1808	2	1.19	0.08	19.46	-0.31	-0.50	-8.90	-3.52	-175.86	-16.99	9.44
1808	3	1.19	0.32	19.38	-0.30	0.44	-9.06	3.28	-175.16	-17.53	-9.66
1808	4	0.32	0.32	27.70	0.04	-0.02	-9.82	0.14	-174.17	11.82	10.94
1809	1	0.28	0.08	-31.63	-0.09	0.10	-2.54	-0.73	-177.44	-8.09	-11.91
1809	2	1.06	0.08	-33.98	0.06	0.04	-3.57	0.33	-177.74	1.85	8.98
1809	3	1.06	0.32	-33.99	0.05	-0.04	-3.45	-0.34	-173.61	1.79	-8.89
1809	4	0.28	0.32	-31.60	-0.08	-0.12	-2.65	0.80	-173.95	-7.92	12.01
[illegible]36	1	0.36	0.08	16.57	-0.18	-0.06	-15.08	-0.37	-159.53	24.65	-18.82
1936	2	1.35	0.08	-4.41	0.79	1.39	-14.83	9.23	-159.61	-72.49	35.77
1936	3	1.35	0.32	-4.14	0.99	1.24	-13.61	-8.48	-160.13	-0.88	-35.81
1936	4	0.36	0.32	10.37	-0.23	0.00	-15.87	0.05	-159.93	23.25	18.84
1937	1	0.32	0.08	26.04	0.02	0.02	-8.88	-0.09	-161.15	13.81	-13.67
1937	2	1.19	0.08	18.54	-0.26	-0.35	-8.15	-2.90	-160.34	-11.25	13.89
1937	3	1.19	0.32	18.71	-0.27	0.40	-7.73	3.03	-160.20	-31.67	-14.10
1937	4	0.32	0.32	25.92	0.00	-0.03	-9.04	0.13	-159.24	14.52	13.41
1938	1	0.28	0.08	-29.45	-0.06	0.08	-2.22	-0.54	-161.84	-12.64	-13.94
1938	2	1.06	0.08	-31.61	0.05	0.05	-3.25	0.31	-162.13	3.08	11.21
[illegible]38	3	1.06	0.32	-31.60	0.05	-0.03	-3.09	-0.33	-158.67	1.53	-11.12
1938	4	0.28	0.32	-29.53	-0.08	-0.08	-2.31	0.63	-159.00	-6.87	14.03
2065	1	0.36	0.08	9.88	-0.12	-0.10	-11.93	-0.84	-141.56	22.90	-17.33
2065	2	1.35	0.08	-3.57	0.41	1.29	-13.86	8.97	-141.65	-69.23	31.96
2065	3	1.35	0.32	-2.63	1.20	-0.78	-10.58	-6.14	-143.30	1.83	-31.99
2065	4	0.36	0.32	9.25	-0.27	-0.10	-14.81	-0.56	-143.11	21.50	17.35
2066	1	0.32	0.08	23.07	0.03	0.02	-7.29	-0.15	-143.14	12.67	-12.60
2066	2	1.19	0.08	16.32	-0.18	-0.21	-7.42	-2.24	-142.36	-9.69	13.10
2066	3	1.19	0.32	16.84	-0.24	0.44	-6.07	3.03	-143.21	-29.94	-13.30
[illegible]66	4	0.32	0.32	22.73	-0.04	-0.06	-8.24	-0.02	-142.28	13.36	12.35
[illegible]67	1	0.28	0.08	-25.79	-0.02	0.06	-1.90	-0.45	-143.78	-11.84	-12.76
2067	2	1.06	0.08	-27.76	0.03	0.07	-2.86	0.26	-144.07	2.90	10.36
2067	3	1.06	0.32	-27.71	0.06	-0.03	-2.73	-0.28	-141.70	1.38	-10.27
2067	4	0.28	0.32	-26.05	-0.11	-0.03	-1.86	0.49	-142.02	-6.13	12.84
2194	1	0.36	0.08	7.92	-0.01	-0.17	-6.14	-1.73	-105.31	18.69	-13.74
2194	2	1.35	0.08	-2.21	-0.22	1.11	-11.37	8.15	-105.40	-72.28	23.97
2194	3	1.35	0.32	-0.31	1.42	-0.03	-4.76	-1.82	-110.76	19.14	-24.01
2194	4	0.36	0.32	6.68	-0.30	-0.23	-12.30	-1.62	-110.56	16.87	13.75
2195	1	0.32	0.08	16.66	0.03	-0.01	-4.23	-0.37	-106.86	9.83	-10.02
2195	2	1.19	0.08	11.54	-0.05	0.03	-5.83	-0.83	-106.10	-2.77	10.78
2195	3	1.19	0.32	12.57	-0.19	0.47	-2.96	2.95	-110.35	-28.79	-10.98
2195	4	0.32	0.32	15.99	-0.09	-0.10	-6.60	-0.36	-109.44	10.73	9.78
2196	1	0.28	0.08	-18.13	0.03	0.06	-1.36	-0.37	-107.44	-10.80	-9.99
2196	2	1.06	0.08	-19.66	0.01	0.07	-1.94	0.20	-107.72	2.69	8.27
2196	3	1.06	0.32	-19.55	0.06	-0.03	-2.13	-0.18	-108.78	0.72	-8.18
2196	4	0.28	0.32	-18.63	-0.15	0.06	-0.88	0.15	-109.09	-3.44	10.08
2323	1	0.36	0.08	7.37	0.19	-0.06	8.79	-2.27	9.97	14.18	-8.97
2323	2	1.35	0.08	9.87	-1.33	-1.03	1.01	-1.21	10.53	-61.18	3.25
[illegible]23	3	1.35	0.32	12.48	1.00	2.61	9.60	10.36	-8.36	28.96	-3.41
2323	4	0.36	0.32	5.66	-0.21	-0.43	-0.58	-2.70	-7.51	12.35	8.81
2324	1	0.32	0.08	2.16	-0.08	0.05	4.11	-0.44	8.43	5.83	-6.59
2324	2	1.19	0.08	3.33	0.36	0.69	1.32	2.65	9.25	1.94	10.7[illegible]
2324	3	1.19	0.32	4.72	0.14	0.07	5.10	2.65	-6.26	-23.79	-11.02
2324	4	0.32	0.32	1.23	-0.25	-0.18	0.18	-0.81	-5.28	6.71	6.35
2325	1	0.28	0.08	-0.30	0.11	-0.15	0.90	0.45	7.98	-8.23	-5.43
2325	2	1.06	0.08	-0.05	-0.04	0.09	0.72	-0.06	7.57	2.24	5.83
2325	3	1.06	0.32	0.10	0.04	-0.06	0.05	0.13	-4.16	0.31	-5.72
2325	4	0.28	0.32	-0.98	-0.15	0.35	1.77	-0.98	-4.61	-0.98	5.56
2452	1	0.36	0.08	9.79	0.44	0.44	37.96	-1.70	255.59	7.77	-1.52
2452	2	1.35	0.08	41.23	-2.80	-6.81	30.69	-25.57	256.14	3.22	-38.86
2452	3	1.35	0.32	43.56	-0.64	8.38	37.90	24.92	225.35	-1.33	38.70
2452	4	0.36	0.32	8.29	0.07	-0.82	28.23	-3.69	226.19	7.81	1.35
2453	1	0.32	0.08	-25.49	-0.47	0.28	20.96	-0.14	255.21	-0.16	-1.38
2453	2	1.19	0.08	-9.82	1.26	1.91	17.99	9.14	256.01	-4.61	14.08
2453	3	1.19	0.32	-8.60	1.04	-1.10	21.42	-5.22	228.65	-3.22	-14.31
2453	4	0.32	0.32	-26.31	-0.61	-0.41	16.32	-1.64	229.61	-0.19	1.15
2454	1	0.28	0.08	34.02	0.14	-0.75	6.00	2.57	255.24	-0.55	2.40
2454	2	1.06	0.08	38.46	-0.11	0.16	6.44	-0.67	254.83	0.65	2.46
2454	3	1.06	0.32	38.61	-0.04	-0.20	4.97	0.94	231.27	0.77	-2.34
154	4	0.28	0.32	33.42	-0.09	1.03	7.32	-3.56	230.82	-0.90	-2.26
2581	1	0.36	0.08	9.06	0.09	0.29	11.63	0.22	[illegible]7.47	33.60	-22.36
2581	2	1.35	0.08	21.64	-0.73	-3.68	13.41	-14.36	[illegible]9.34	-39.24	3.74
2581	3	1.35	0.32	21.45	-0.90	3.57	12.91	13.76	62.86	-90.12	-9.21
2581	4	0.36	0.32	9.17	0.12	-0.27	12.29	0.12	65.01	33.60	21.88
2582	1	0.32	0.08	-3.89	-0.27	0.15	6.42	0.18	65.51	15.48	-16.29
2582	2	1.19	0.08	2.40	0.46	0.72	7.74	2.84	66.79	-27.43	28.27
2582	3	1.19	0.32	2.31	0.48	-0.78	7.61	-3.06	66.85	-27.13	-28.65
2582	4	0.32	0.32	-3.89	-0.27	-0.15	6.80	-0.09	68.28	15.95	15.95
2583	1	0.28	0.08	6.73	0.02	-0.42	2.79	1.55	65.16	-11.45	-13.28
2583	2	1.06	0.08	8.54	-0.01	0.07	1.76	-0.17	64.91	3.15	14.52
2583	3	1.06	0.32	8.53	-0.02	-0.07	1.89	0.17	69.42	3.23	-14.47
2583	4	0.28	0.32	6.76	0.04	0.40	2.75	-1.49	69.14	-11.49	13.38
2962	1	0.36	0.08	11.44	-0.04	0.13	-3.11	0.27	-54.08	21.80	-15.97
2962	2	1.35	0.08	9.35	0.12	-1.26	-1.55	-2.76	-51.87	-29.44	16.91
2962	3	1.35	0.32	9.27	0.03	1.16	-1.62	2.04	-56.84	-29.54	-17.44
2962	4	0.36	0.32	11.47	-0.03	-0.13	-2.37	0.26	-54.36	21.83	15.40
2963	1	0.32	0.08	13.75	-0.13	0.09	-2.06	0.23	-57.78	11.42	-11.62
2963	2	1.19	0.08	12.70	0.10	0.16	-0.70	-0.19	-55.73	-18.62	15.38
963	3	1.19	0.32	12.68	0.12	-0.29	-0.72	-0.28	-52.73	-18.58	-15.95
2963	4	0.32	0.32	13.76	-0.12	-0.09	-1.41	0.07	-50.54	11.46	11.06
2964	1	0.28	0.08	-14.31	-0.03	-0.20	0.18	0.58	-58.58	-8.14	-10.57
2964	2	1.06	0.08	-14.61	0.01	0.07	-1.07	0.01	-58.69	2.09	9.77
2964	3	1.06	0.32	-14.61	0.01	-0.05	-0.63	-0.05	-49.61	2.07	-9.75
2964	4	0.28	0.32	-14.30	-0.02	0.15	-0.06	-0.34	-49.75	-8.13	10.62
2965	1	0.36	0.08	10.39	-0.11	0.07	-7.58	0.22	-91.42	16.25	-12.61
2965	2	1.35	0.08	3.73	0.45	-0.23	-6.16	1.88	-89.26	-20.90	19.29
2965	3	1.35	0.32	3.68	0.38	0.17	-6.21	-2.42	-95.58	-27.10	-19.80
2965	4	0.36	0.32	10.41	-0.10	-0.07	-7.10	0.19	-93.16	16.38	12.06
2966	1	0.32	0.08	17.47	-0.07	0.07	-4.59	0.18	-95.22	9.20	-9.16
2966	2	1.19	0.08	14.14	-0.03	-0.07	-3.32	-1.29	-93.22	-15.26	10.14
2966	3	1.19	0.32	14.13	-0.02	0.01	-3.33	0.92	-91.74	-13.33	-10.69
2966	4	0.32	0.32	17.47	-0.07	-0.07	-4.10	0.06	-89.61	9.18	8.62
2967	1	0.28	0.08	-19.09	-0.05	-0.10	-0.68	0.12	-96.10	-6.15	-8.80
2967	2	1.06	0.08	-20.05	0.02	0.07	-1.87	0.09	-96.20	1.48	7.46
2967	3	1.06	0.32	-20.06	0.02	-0.04	-1.51	-0.12	-88.78	1.63	-7.44
2967	4	0.28	0.32	-19.09	-0.05	0.06	-0.88	0.08	-88.91	-6.65	8.85
2968	1	0.36	0.08	9.85	-0.06	-0.02	-7.41	-0.60	-94.24	30.32	-22.58
2968	2	1.35	0.08	2.18	0.20	0.13	-7.52	3.21	-92.15	-38.57	28.14
2968	3	1.35	0.32	2.55	0.51	0.08	-6.19	-2.00	-103.50	-45.89	-28.63

2968	4	0.36	0.32	9.60	-0.12	-0.06	-8.63	-0.01	-101.14	30.48	22.04
2969	1	0.32	0.08	12.61	0.03	0.01	-4.58	-0.18	-98.55	16.38	-16.43
2969	2	1.19	0.08	13.74	-0.09	0.00	-9.09	-1.09	-96.28	-27.27	20.69
2969	3	1.19	0.32	13.95	-0.11	0.08	-3.39	1.49	-99.58	-25.13	-21.31
2969	4	0.32	0.32	17.47	-0.06	-0.05	-4.92	0.06	-97.17	16.34	15.81
2970	1	0.28	0.08	-19.27	-0.01	-0.02	-0.95	-0.05	-99.65	-11.28	-15.38
2970	2	1.06	0.08	-20.39	0.03	0.03	-1.85	0.22	-99.90	2.81	13.76
2970	3	1.06	0.32	-20.37	0.04	-0.02	-1.78	-0.22	-96.00	2.99	-13.70
2970	4	0.28	0.32	-19.38	-0.04	0.04	-0.86	0.03	-96.28	-11.84	15.49
3097	1	0.36	0.08	9.67	-0.02	0.01	-3.53	-0.70	-66.61	25.72	-18.87
3097	2	1.35	0.08	4.98	-0.08	-0.35	-4.82	1.25	-64.60	-34.11	20.71
3097	3	1.35	0.32	5.70	0.54	0.76	-2.27	1.12	-76.30	-35.82	-21.18
3097	4	0.36	0.32	9.19	-0.14	-0.16	-5.88	-0.52	-74.03	25.76	18.34
3098	1	0.32	0.08	13.93	-0.07	0.06	-2.47	-0.12	-70.68	13.58	-13.76
3098	2	1.19	0.08	11.54	0.04	0.14	-2.45	-0.29	-68.49	-22.26	18.06
3098	3	1.19	0.32	11.94	-0.01	0.04	-1.25	1.07	-72.35	-21.74	-18.67
3098	4	0.32	0.32	13.66	-0.11	-0.09	-3.26	-0.13	-70.02	13.55	13.16
99	1	0.28	0.08	-14.70	0.00	-0.09	-0.39	0.19	-71.69	-9.58	-12.60
99	2	1.06	0.08	-15.41	0.01	0.06	-1.22	0.13	-71.93	2.43	11.58
3099	3	1.06	0.32	-15.37	0.03	0.04	-1.20	-0.12	-68.83	2.49	-11.53
3099	4	0.28	0.32	-14.90	-0.07	0.12	-0.21	-0.24	-69.11	-9.70	12.70
3226	1	0.36	0.08	8.49	0.04	0.00	-0.72	-0.70	-45.09	21.95	-15.95
3226	2	1.35	0.08	6.40	-0.34	-0.68	-2.32	-0.64	-43.16	-28.41	15.80
3226	3	1.35	0.32	7.25	0.40	1.13	0.67	3.17	-52.70	-30.31	-16.26
3226	4	0.36	0.32	7.93	-0.10	-0.18	-3.24	-0.54	-50.49	21.98	15.44
3227	1	0.32	0.08	9.90	-0.07	0.09	-0.98	-0.08	-48.92	11.40	-11.65
3227	2	1.19	0.08	8.81	0.10	0.25	-0.96	0.35	-46.81	-18.94	15.74
27	3	1.19	0.32	9.27	0.04	-0.06	0.37	0.37	-48.76	-18.37	-16.33
3227	4	0.32	0.32	9.59	-0.12	-0.09	-1.69	-0.10	-46.51	11.39	11.08
3228	1	0.28	0.08	-10.00	0.03	-0.12	0.15	0.38	-49.84	-8.04	-10.48
3228	2	1.06	0.08	-10.34	0.00	0.05	-0.79	0.05	-50.07	2.06	9.84
3228	3	1.06	0.32	-10.29	0.02	-0.02	-0.63	-0.07	-45.32	2.14	-9.79
3228	4	0.28	0.32	-10.23	-0.05	0.14	0.25	-0.35	-45.59	-8.19	10.58
3355	1	0.36	0.08	8.37	0.09	0.05	4.19	-1.02	-8.95	18.41	-12.93
3355	2	1.35	0.08	10.35	-0.66	-1.35	1.64	-3.14	-7.00	-23.58	8.04
3355	3	1.35	0.32	11.42	0.36	2.00	5.34	7.06	-20.91	-23.00	-8.53
55	4	0.36	0.32	7.67	-0.08	-0.27	0.39	-1.15	-18.67	18.39	12.43
56	1	0.32	0.08	5.28	-0.11	0.06	1.90	-0.20	-11.62	9.08	-9.38
3356	2	1.19	0.08	6.23	0.25	0.46	1.30	1.57	-10.27	-15.26	14.23
3356	3	1.19	0.32	6.80	0.15	-0.15	3.05	-0.09	-16.97	-15.39	-14.62
3356	4	0.32	0.32	4.89	-0.18	-0.14	0.33	-0.41	-15.48	9.06	9.02
3357	1	0.28	0.08	-4.31	0.04	-0.17	0.77	0.52	-12.20	-6.61	-8.07
3357	2	1.06	0.08	-4.08	-0.02	0.06	0.20	-0.02	-12.46	1.75	8.12
3357	3	1.06	0.32	-4.02	0.02	-0.06	-0.10	0.07	-14.45	1.76	-8.06
3357	4	0.28	0.32	-4.60	-0.07	0.26	1.23	-0.79	-14.74	-6.57	8.17
3484	1	0.36	0.04	-6.19	0.21	1.54	113.97	-4.77	-99.02	7.97	-8.15
3484	2	1.35	0.04	-6.18	0.28	-2.43	-46.73	-10.03	-165.63	-325.10	23.48
3484	3	1.35	0.16	-7.34	0.05	-2.43	-106.27	-5.47	-156.41	-323.25	7.94
3484	4	0.36	0.16	-7.35	-0.02	1.55	83.10	-0.41	-89.80	9.81	-23.69
3485	1	0.32	0.04	-10.87	0.04	0.22	131.64	-4.20	-143.13	-4.68	-20.36
3485	2	1.19	0.04	-10.99	-0.56	0.55	-114.86	1.81	-124.70	87.47	15.37
3485	3	1.19	0.16	-10.88	-0.54	0.52	-117.92	6.74	-112.85	89.84	20.25
3485	4	0.32	0.16	-10.76	0.06	0.19	126.18	2.44	-131.28	-2.31	-15.47
3486	1	0.28	0.04	-14.21	-0.18	0.19	147.39	-3.96	-132.45	4.86	-18.98
3486	2	1.06	0.04	-14.25	-0.36	-0.87	-139.82	-3.37	-138.52	-25.49	20.78
3	3	1.06	0.16	-14.34	-0.38	-0.08	-144.31	4.11	-123.77	-22.54	18.98
3486	4	0.28	0.16	-14.31	-0.20	0.18	144.75	4.05	-117.70	7.81	-20.78

HIPOTESIS NUMERO 7

hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cn = 1.5 Cn = 1.5

ELEM.	P.	X	Y	Mx	My	Mxy	Nx	Ny	Nxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	7.7	0.1	0.8	207.9	9.5	-3.6	12.18	17.49	5.89*	5.89*
379	2	1.35	0.08	40.4	-0.6	-7.8	208.3	41.0	-34.6	5.45*	30.73	5.89*	5.89*
379	3	1.35	0.32	38.2	-2.6	6.3	230.3	-47.3	34.5	5.89*	31.39	5.89*	5.89*
379	4	0.36	0.32	9.2	0.4	-0.4	231.1	11.3	3.4	13.28	19.67	5.89*	5.89*
380	1	0.32	0.08	-24.2	-0.6	0.4	208.5	1.8	-2.9	24.21	5.89*	5.65*	5.89*
380	2	1.19	0.08	-7.8	0.9	1.0	209.2	-18.8	15.5	17.60	12.24	5.89*	5.89*
380	3	1.19	0.32	-9.0	1.2	-1.8	232.5	6.3	-15.7	19.69	13.47	5.89*	5.89*
380	4	0.32	0.32	-23.4	-0.4	-0.3	233.3	1.0	2.6	25.61	7.16	5.89*	5.89*
381	1	0.28	0.08	30.8	-0.1	-1.0	208.7	1.8	0.8	5.89*	26.88	5.89*	5.89*
381	2	1.06	0.08	35.6	0.0	0.2	208.3	0.0	3.7	5.45*	28.93	5.45*	5.45*
381	3	1.06	0.32	35.4	-0.1	-0.1	234.7	1.9	-3.6	5.89*	30.58	5.89*	5.89*
381	4	0.28	0.32	31.3	0.1	0.7	234.3	-5.3	-0.7	5.89*	23.88	5.89*	5.89*
382	1	0.36	0.08	4.7	-0.2	0.3	-27.5	19.0	-13.8	5.45*	5.45*	5.89*	5.89*
382	2	1.35	0.08	8.6	1.0	-1.9	-27.1	18.9	9.5	5.45*	5.45*	5.89*	5.89*
382	3	1.35	0.32	6.3	-1.0	0.5	-15.9	-69.5	-9.6	5.45*	5.45*	5.45*	5.45*
382	4	0.36	0.32	6.2	0.1	0.1	-15.2	20.8	13.7	5.45*	5.45*	5.89*	5.89*
383	1	0.32	0.08	3.0	-0.2	0.1	-28.2	10.2	-10.1	5.45*	5.45*	5.89*	5.89*
383	2	1.19	0.08	5.0	0.1	-0.1	-27.5	-29.2	15.3	5.45*	5.45*	5.45*	5.45*
383	3	1.19	0.32	3.8	0.2	-0.5	-14.9	-4.0	-15.5	5.45*	5.45*	5.45*	5.45*
383	4	0.32	0.32	3.8	-0.1	0.0	-14.1	9.4	9.9	5.45*	5.45*	5.89*	5.89*
384	1	0.28	0.08	-3.2	-0.1	-0.3	-28.5	-3.6	-8.8	5.45*	5.45*	5.45*	5.45*
384	2	1.06	0.08	-2.6	0.0	0.1	-28.9	0.9	8.8	5.45*	5.45*	5.89*	5.89*
384	3	1.06	0.32	-2.7	0.0	-0.1	-13.2	2.9	-8.7	5.45*	5.45*	5.89*	5.89*
384	4	0.28	0.32	-2.6	0.1	0.1	-13.6	-10.7	8.9	5.45*	5.45*	5.45*	5.45*
385	1	0.36	0.08	5.5	-0.3	0.1	-146.8	34.7	-26.4	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-5.7	1.5	1.0	-146.4	-15.9	36.7	5.45*	5.45*	5.45*	5.45*
385	3	1.35	0.32	-7.6	-0.2	-2.1	-144.2	-84.2	-36.9	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	6.8	0.0	0.3	-143.5	36.0	26.3	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	19.3	0.0	0.0	-148.1	19.7	-19.1	5.45*	7.10	5.89*	5.89*
386	2	1.19	0.08	13.8	-0.4	-0.6	-147.5	-40.4	23.6	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	12.7	-0.2	0.1	-143.7	-21.0	-23.8	5.45*	5.45*	5.45*	5.45*
386	4	0.32	0.32	28.8	0.1	0.1	-142.9	19.1	18.9	5.45*	7.43	5.89*	5.89*
387	1	0.28	0.08	-22.9	-0.1	0.1	-148.7	-10.9	-18.4	8.97	5.45*	5.45*	5.45*
387	2	1.06	0.08	-24.5	0.1	0.0	-149.0	2.7	16.1	9.77	5.45*	5.89*	5.89*
387	3	1.06	0.32	-24.6	0.0	0.0	-142.4	4.1	-16.0	9.77	5.45*	5.89*	5.89*
387	4	0.28	0.32	-22.4	0.1	-0.2	-142.7	-16.4	18.6	8.69	5.45*	5.45*	5.45*
514	1	0.36	0.08	7.6	-0.3	0.0	-169.3	47.7	-35.6	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-7.4	1.5	1.6	-169.4	-32.9	46.3	5.45*	5.45*	5.45*	5.45*
514	3	1.35	0.32	-8.8	0.4	-2.2	-171.9	-102.1	-46.3	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	8.4	-0.1	0.2	-171.7	49.1	35.7	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	24.7	0.0	0.0	-170.4	26.5	-25.9	5.45*	10.10	5.89*	5.89*
515	2	1.19	0.08	17.2	-0.5	-0.6	-169.9	-51.6	33.1	5.45*	6.04	5.45*	5.45*
515	3	1.19	0.32	16.6	-0.4	0.3	-172.3	-32.0	-33.3	5.45*	5.67	5.45*	5.45*
515	4	0.32	0.32	29.1	0.1	0.0	-171.6	25.9	25.7	5.45*	10.35	5.89*	5.89*

V-3

C-2

C-3

C-4

C-5

516	1	0.28	0.08	-28.9	-0.1	0.1	-171.0	-15.7	-24.8	12.38	5.45*	5.45*	5.45*
516	2	1.06	0.08	-31.1	0.1	0.0	-171.2	-5.9	21.9	13.53	5.45*	5.89*	5.89*
516	3	1.06	0.32	-31.1	0.1	0.0	-171.3	-5.4	21.8	13.58	5.45*	5.89*	5.89*
516	4	0.28	0.32	-28.6	0.0	0.2	-171.6	-21.2	24.8	12.22	5.45*	5.45*	5.45*
643	1	0.36	0.08	10.1	-0.3	0.0	-166.9	59.9	-43.2	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-5.3	1.1	1.4	-167.1	-81.6	50.6	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-5.8	0.7	-1.7	-170.3	-80.9	-50.6	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	10.4	-0.2	0.1	-170.1	59.4	43.2	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	26.8	0.0	0.0	-168.1	31.5	-31.3	5.45*	11.22	5.89*	5.89*
644	2	1.19	0.08	19.1	-0.4	-0.4	-167.6	-50.8	41.8	5.45*	7.08	5.45*	5.45*
644	3	1.19	0.32	19.9	-0.4	0.3	-170.6	-51.0	-42.0	5.45*	6.99	5.45*	5.45*
644	4	0.32	0.32	27.0	0.0	0.0	-170.0	31.5	31.1	5.45*	11.34	5.89*	5.89*
645	1	0.28	0.08	-30.8	-0.1	0.1	-168.6	-22.4	-29.5	13.34	5.45*	5.45*	5.45*
645	2	1.06	0.08	-33.0	0.1	0.0	-168.8	5.7	26.7	14.54	5.45*	5.89*	5.89*
645	3	1.06	0.32	-33.0	0.1	0.0	-169.8	5.2	-26.6	14.57	5.45*	5.89*	5.89*
645	4	0.28	0.32	-30.6	0.0	-0.1	-170.0	-22.3	29.6	13.29	5.45*	5.45*	5.45*
772	1	0.36	0.08	11.3	-0.2	-0.1	-160.8	65.0	-46.9	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-3.7	0.8	1.3	-161.0	-88.0	51.5	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-3.8	0.7	-1.3	-164.7	-87.9	-51.5	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	11.4	-0.2	-0.1	-164.6	65.0	46.9	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	27.3	0.0	0.0	-161.9	34.1	-34.0	5.45*	11.37	5.89*	5.89*
773	2	1.19	0.08	19.7	-0.4	-0.3	-161.5	-55.5	46.5	5.45*	7.38	5.45*	5.45*
773	3	1.19	0.32	19.7	-0.4	0.3	-165.0	-55.5	-46.6	5.45*	7.36	5.45*	5.45*
773	4	0.32	0.32	27.2	0.0	0.0	-164.5	34.1	33.9	5.45*	11.42	5.89*	5.89*
774	1	0.28	0.08	-30.9	0.0	0.1	-162.4	-24.3	-31.8	13.31	5.45*	5.45*	5.45*
774	2	1.06	0.08	-33.1	0.1	0.0	-162.5	6.2	29.1	14.48	5.45*	5.89*	5.89*
774	3	1.06	0.32	-33.1	0.1	0.0	-164.3	6.2	-29.1	14.51	5.45*	5.89*	5.89*
774	4	0.28	0.32	-30.9	0.0	-0.1	-164.5	-24.3	31.9	13.33	5.45*	5.45*	5.45*
901	1	0.36	0.08	12.2	-0.2	0.0	-140.4	67.3	-48.1	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-0.5	0.6	0.7	-140.5	-89.5	49.0	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-0.5	0.6	-0.7	-145.4	-90.4	-49.0	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	12.2	-0.2	0.1	-145.3	67.3	48.2	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	25.7	0.0	0.0	-141.2	34.9	-34.9	5.45*	10.31	5.89*	5.89*
902	2	1.19	0.08	19.3	-0.3	-0.1	-141.0	-57.3	49.0	5.45*	7.07	5.45*	5.45*
902	3	1.19	0.32	19.3	-0.3	0.2	-145.6	-57.1	-49.1	5.45*	7.08	5.45*	5.45*
902	4	0.32	0.32	25.6	0.0	0.0	-145.2	34.9	34.8	5.45*	10.34	5.89*	5.89*
903	1	0.28	0.08	-28.7	0.0	0.1	-141.6	-24.9	-32.4	11.87	5.45*	5.45*	5.45*
903	2	1.06	0.08	-30.6	0.1	0.0	-141.7	6.4	30.0	12.82	5.45*	5.89*	5.89*
903	3	1.06	0.32	-30.6	0.1	0.0	-145.1	6.4	-30.0	12.86	5.45*	5.89*	5.89*
903	4	0.28	0.32	-28.7	0.0	0.0	-145.2	-25.0	32.4	11.92	5.45*	5.45*	5.45*
1030	1	0.36	0.08	13.2	-0.1	0.0	-111.2	69.7	-49.3	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.8	0.3	0.0	-111.4	-92.2	44.7	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	4.0	0.5	0.2	-116.0	-91.0	-44.7	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	13.0	-0.2	-0.1	-115.9	69.7	49.3	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	22.9	-0.1	0.0	-111.8	35.6	-35.7	5.45*	8.80	5.89*	5.89*
1031	2	1.19	0.08	18.2	-0.2	0.0	-111.7	-58.7	51.9	5.45*	6.55	5.45*	5.45*
1031	3	1.19	0.32	18.3	-0.2	0.1	-116.0	-59.0	-52.0	5.45*	6.58	5.45*	5.45*
1031	4	0.32	0.32	22.9	-0.1	-0.1	-115.8	35.6	35.7	5.45*	8.78	5.89*	5.89*
1032	1	0.28	0.08	-25.1	0.0	0.0	-112.1	-25.6	-32.7	9.84	5.45*	5.45*	5.45*
1032	2	1.06	0.08	-26.5	0.1	0.0	-112.1	6.7	30.9	10.50	5.45*	5.89*	5.89*
1032	3	1.06	0.32	-26.5	0.1	-0.1	-115.7	6.6	-30.9	10.52	5.45*	5.89*	5.89*
1032	4	0.28	0.32	-25.1	0.0	0.1	-115.7	-25.5	32.7	9.89	5.45*	5.45*	5.45*
1159	1	0.36	0.08	13.4	-0.2	0.1	-105.5	78.1	-55.0	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	5.5	0.4	-0.4	-105.7	-103.2	47.0	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	5.3	0.3	0.3	-102.9	-100.8	-47.0	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	13.5	-0.1	0.0	-102.7	78.2	55.0	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	22.1	-0.1	0.1	-105.8	39.6	-39.9	5.45*	8.39	5.89*	5.89*
1160	2	1.19	0.08	18.1	-0.2	0.0	-105.8	-65.5	58.9	5.45*	6.49	5.45*	5.45*
1160	3	1.19	0.32	18.0	-0.1	-0.1	-103.0	-66.2	-59.0	5.45*	6.46	5.45*	5.45*
1160	4	0.32	0.32	22.1	-0.1	-0.1	-102.8	39.7	39.9	5.45*	8.41	5.89*	5.89*
1161	1	0.28	0.08	-24.1	0.0	-0.1	-105.9	-28.6	-36.3	9.34	5.45*	5.45*	5.45*
1161	2	1.06	0.08	-25.3	0.1	0.0	-106.0	7.5	34.6	9.89	5.45*	5.89*	5.89*
1161	3	1.06	0.32	-25.3	0.1	0.0	-102.8	7.4	-34.6	9.88	5.45*	5.89*	5.89*
1161	4	0.28	0.32	-24.1	0.0	0.1	-102.9	-28.4	36.3	9.31	5.45*	5.45*	5.45*
1288	1	0.36	0.04	-9.7	0.0	0.0	-240.2	3.2	9.5	2.72*	2.72*	2.94*	2.94*
1288	2	1.35	0.04	-10.0	-1.7	4.0	-288.7	-219.3	33.5	2.72*	2.72*	2.72*	2.72*
1288	3	1.35	0.16	-8.9	-1.5	4.0	-277.7	-217.9	23.1	2.72*	2.72*	2.72*	2.72*
1288	4	0.36	0.16	-8.5	0.2	-0.1	-233.2	4.6	-0.9	2.72*	2.72*	2.94*	2.94*
1289	1	0.32	0.04	-17.0	0.2	0.0	-264.0	-0.8	-3.1	3.27	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-17.2	-0.6	-1.1	-252.2	58.3	-14.0	3.26	2.72*	2.94*	2.94*
1289	3	1.19	0.16	-17.5	-0.7	-1.1	-255.8	57.5	-10.8	3.41	2.72*	2.94*	2.94*
1289	4	0.32	0.16	-17.4	0.2	0.0	-267.6	-1.5	0.1	3.43	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-23.8	-0.3	0.1	-258.9	3.2	2.2	5.53	2.72*	2.94*	2.94*
1290	2	1.06	0.04	-23.9	-0.7	0.3	-262.6	-14.9	5.1	5.61	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-23.8	-0.7	0.3	-261.6	-14.7	4.0	5.57	2.72*	2.72*	2.72*
1290	4	0.28	0.16	-23.7	-0.3	0.1	-258.0	3.4	1.6	5.50	2.72*	2.94*	2.94*
291	1	0.36	0.08	12.9	0.4	1.1	458.7	29.4	-13.5	28.71	36.88	5.89*	5.89*
1291	2	1.35	0.08	72.3	-3.2	-13.1	459.2	-18.8	-61.0	5.89*	60.02	5.89*	5.89*
1291	3	1.35	0.32	72.3	-3.2	13.1	457.0	-17.9	60.9	5.89*	60.86	5.89*	5.89*
1291	4	0.36	0.32	12.9	0.4	-1.1	457.7	29.4	13.3	28.64	36.82	5.89*	5.89*
1292	1	0.32	0.08	-49.4	-0.9	0.6	459.9	7.4	-10.2	51.77	12.72	5.89*	5.89*
1292	2	1.19	0.08	-19.7	2.0	2.6	460.7	-19.9	37.2	39.77	25.88	5.89*	5.89*
1292	3	1.19	0.32	-19.7	2.0	-2.6	460.8	-20.1	-37.4	39.79	25.89	5.89*	5.89*
1292	4	0.32	0.32	-49.4	-0.9	-0.6	461.7	7.5	10.0	51.90	12.85	5.89*	5.89*
1293	1	0.28	0.08	63.3	0.1	-1.5	460.5	-7.0	-2.9	6.60	57.48	5.89*	5.89*
1293	2	1.06	0.08	71.9	-0.1	0.3	460.1	2.8	11.2	5.89*	60.93	5.89*	5.89*
1293	3	1.06	0.32	71.9	-0.1	-0.3	463.7	2.8	-11.1	5.89*	61.19	5.89*	5.89*
1293	4	0.28	0.32	63.3	0.1	1.5	463.7	-6.9	3.0	6.81	57.67	5.89*	5.89*
1672	1	0.36	0.08	7.9	-0.1	0.2	-33.6	25.0	-17.8	5.45*	5.45*	5.89*	5.89*
1672	2	1.35	0.08	10.4	0.6	-1.9	-31.8	-36.0	14.9	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	8.8	-0.9	0.9	-24.1	-29.1	-15.3	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	8.9	0.1	0.0	-22.0	24.9	17.3	5.45*	5.45*	5.89*	5.89*
1673	1	0.32	0.08	6.9	-0.2	0.1	-35.6	12.6	-12.9	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	8.2	0.1	0.0	-34.4	-20.0	18.6	5.45*	5.45*	5.45*	5.45*
1673	3	1.19	0.32	7.4	0.2	-0.6	-21.0	-22.0	-19.0	5.45*	5.45*	5.45*	5.45*
673	4	0.32	0.32	7.5	-0.1	0.0	-19.6	12.7	12.6	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	-7.2	-0.1	-0.3	-36.1	-9.4	-11.5	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	-6.8	0.0	0.0	-36.3	2.4	11.1	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	-6.8	0.0	0.0	-18.8	2.3	-11.0	5.45*	5.45*	5.89*	5.89*
1674	4	0.28	0.32	-6.8	0.1	0.1	-19.0	-8.8	11.6	5.45*	5.45*	5.45*	5.45*
1675	1	0.36	0.08	8.0	-0.2	0.2	-105.6	10.0	-8.5	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	1.1	1.2	-0.1	-103.9	-19.3	19.2	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	-0.4	-0.1	-0.8	-104.6	-13.6	-19.6	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	9.0	0.0	0.1	-102.6	9.9	8.0	5.45*	5.45*	5.89*	5.89*
1676	1	0.32	0.08	16.9	-0.1	0.1	-108.9	6.3	-6.2	5.45*	5.93	5.89*	5.89*
1676	2	1.19	0.08	13.4	-0.1	-0.4	-107.0	-8.4	4.7	5.45*	5.45*	5.45*	5.45*
1676	3	1.19	0.32	12.7	0.0	-0.1	-101.7	-10.1	-5.2	5.45*	5.45*	5.45*	5.45*
1676	4	0.32	0.32	17.4	0.0	0.0	-99.8	6.4	5.7	5.45*	6.20	5.89*	5.89*
1677	1	0.28	0.08	-19.3	-0.1	-0.1	-109.7	-4.5	-6.4	7.07	5.45*	5.45*	5.45*
1677	2	1.06	0.08	-20.2	0.1	0.1	-109.9	1.0	4.8	7.52	5.45*	5.89*	5.89*
1677	3	1.06	0.32	-20.3	0.0	-0.1	-98.9	0.9	-4.8	7.56	5.45*	5.89*	5.89*
1677	4	0.28	0.32	-19.9	0.0	0.0	-99.1	-4.0	6.5	6.91	5.45*	5.45*	5.45*
1678	1	0.36	0.08	9.4	-0.2	0.1	-152.7	17.4	-14.5	5.45*	5.45*	5.89*	5.89*
1678	2	1.35	0.08	-3.7	1.2	1.0	-151.1	-26.5	31.8	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-4.7	0.4	-1.5	-153.6	-30.2	-32.2	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	10.0	-0.1	0.1	-151.7	17.6	14.1	5.45*	5.45*	5.89*	5.89*

1679	1	0.32	0.08	24.2	0.0	0.0	-156.3	10.9	-10.5	5.45*	9.70	5.89*	5.89*
1679	2	1.19	0.08	12.6	-0.3	0.5	-154.5	-16.6	8.8	5.45*	6.24	5.45*	5.45*
1679	3	1.19	0.32	17.2	-0.2	0.2	-150.9	-15.5	-9.3	5.45*	6.00	5.45*	5.45*
1679	4	0.32	0.32	24.5	0.1	0.0	-149.0	10.9	10.0	5.45*	9.80	5.89*	5.89*
1680	1	0.28	0.08	-27.9	-0.1	0.0	-157.3	-7.3	-10.9	11.59	5.45*	5.45*	5.45*
1680	2	1.06	0.08	-29.7	0.1	0.0	-157.5	1.6	8.3	12.56	5.45*	5.89*	5.89*
1680	3	1.06	0.32	-29.7	0.0	0.0	-148.2	1.7	-8.3	12.46	5.45*	5.89*	5.89*
1680	4	0.28	0.32	-27.6	0.0	-0.1	-148.4	-7.6	11.0	11.36	5.45*	5.45*	5.45*
1807	1	0.36	0.08	10.2	-0.2	0.0	-175.0	13.8	-15.4	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-6.2	1.1	1.6	-175.1	-31.6	35.5	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-6.4	1.0	-1.7	-175.0	-29.7	-35.5	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	10.3	-0.2	0.1	-174.8	18.7	15.4	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	27.6	0.0	0.0	-176.7	11.8	-11.2	5.45*	11.78	5.89*	5.89*
1808	2	1.19	0.08	19.5	-0.3	-0.5	-175.9	-17.0	9.4	5.45*	7.29	5.45*	5.45*
1808	3	1.19	0.32	19.4	-0.3	0.4	-175.2	-17.5	-9.7	5.45*	7.24	5.45*	5.45*
1808	4	0.32	0.32	27.7	0.0	0.0	-174.2	11.8	10.9	5.45*	11.77	5.89*	5.89*
1809	1	0.28	0.08	-31.6	-0.1	0.1	-177.4	-8.1	-11.9	13.97	5.45*	5.45*	5.45*
09	2	1.06	0.08	-34.0	0.1	0.0	-177.7	1.9	9.0	15.27	5.45*	5.89*	5.89*
09	3	1.06	0.32	-34.0	0.1	0.0	-173.6	1.8	-8.9	15.19	5.45*	5.89*	5.89*
1809	4	0.28	0.32	-31.6	-0.1	-0.1	-173.9	-7.9	12.0	13.88	5.45*	5.45*	5.45*
1936	1	0.36	0.08	10.6	-0.2	-0.1	-159.5	24.6	-18.8	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-4.4	0.8	1.4	-159.6	-72.5	35.8	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-4.1	1.0	-1.2	-160.1	-0.9	-35.8	5.45*	5.45*	5.45*	5.45*
1936	4	0.36	0.32	10.4	-0.2	0.0	-159.9	23.3	18.8	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	26.0	0.0	0.0	-161.2	13.8	-13.7	5.45*	10.71	5.89*	5.89*
1937	2	1.19	0.08	18.5	-0.3	-0.3	-160.3	-11.3	13.9	5.45*	6.73	5.45*	5.45*
1937	3	1.19	0.32	18.7	-0.3	0.4	-160.2	-31.7	-14.1	5.45*	6.82	5.45*	5.45*
37	4	0.32	0.32	25.9	0.0	0.0	-159.2	14.5	13.4	5.45*	10.62	5.89*	5.89*
1938	1	0.28	0.08	-29.4	-0.1	0.1	-161.8	-12.6	-13.9	12.52	5.45*	5.45*	5.45*
1938	2	1.06	0.08	-31.6	0.1	0.1	-162.1	3.1	11.2	13.67	5.45*	5.89*	5.89*
1938	3	1.06	0.32	-31.6	0.1	0.0	-158.7	1.5	-11.1	13.61	5.45*	5.89*	5.89*
1938	4	0.28	0.32	-29.5	-0.1	-0.1	-159.0	-6.9	14.0	12.52	5.45*	5.45*	5.45*
2065	1	0.36	0.08	9.9	-0.1	-0.1	-141.6	22.9	-17.3	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-3.6	0.4	1.3	-141.7	-69.2	32.0	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-2.6	1.2	-0.8	-143.3	1.8	-32.0	5.45*	5.45*	5.45*	5.45*
2065	4	0.36	0.32	9.2	-0.3	-0.1	-143.1	21.5	17.4	5.45*	5.45*	5.89*	5.89*
66	1	0.32	0.08	23.1	0.0	0.0	-143.1	12.7	-12.6	5.45*	9.01	5.89*	5.89*
66	2	1.19	0.08	16.3	-0.2	-0.2	-142.4	-9.7	13.1	5.45*	5.56	5.45*	5.45*
2066	3	1.19	0.32	16.8	-0.2	0.4	-143.2	-29.9	-13.3	5.45*	5.83	5.45*	5.45*
2066	4	0.32	0.32	22.7	0.0	-0.1	-142.3	13.4	12.3	5.45*	8.84	5.89*	5.89*
2067	1	0.28	0.08	-25.8	0.0	0.1	-143.8	-11.8	-12.8	10.40	5.45*	5.45*	5.45*
2067	2	1.06	0.08	-27.9	0.0	0.1	-144.1	2.9	10.4	11.41	5.45*	5.89*	5.89*
2067	3	1.06	0.32	-27.7	0.1	0.0	-141.7	1.4	-10.3	11.36	5.45*	5.89*	5.89*
2067	4	0.28	0.32	-26.1	-0.1	0.0	-142.0	-6.1	12.8	10.52	5.45*	5.45*	5.45*
2194	1	0.36	0.08	7.9	0.0	-0.2	-105.3	18.7	-13.7	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-2.2	-0.2	1.1	-105.4	-72.3	24.0	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-0.3	1.4	0.0	-110.8	19.1	-24.0	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	6.7	-0.3	-0.2	-110.6	16.9	13.8	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	16.7	0.0	0.0	-106.9	9.8	-10.0	5.45*	5.83	5.89*	5.89*
2195	2	1.19	0.08	11.5	-0.1	0.0	-106.1	-2.8	10.8	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	12.6	-0.2	0.5	-110.7	-28.8	-11.0	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	16.0	-0.1	-0.1	-109.4	10.7	9.8	5.45*	5.50	5.89*	5.89*
2196	1	0.28	0.08	-18.1	0.0	0.1	-107.4	-10.8	-10.0	6.53	5.45*	5.45*	5.45*
2196	2	1.06	0.08	-19.7	0.0	0.1	-107.7	2.7	8.3	7.25	5.45*	5.89*	5.89*
2196	3	1.06	0.32	-19.6	0.1	0.0	-108.8	0.7	-8.2	7.20	5.45*	5.89*	5.89*
96	4	0.28	0.32	-18.6	-0.1	0.1	-109.1	-3.4	10.1	6.76	5.45*	5.45*	5.45*
2323	1	0.36	0.08	7.4	0.2	-0.1	10.0	14.2	-9.0	5.45*	5.45*	5.89*	5.89*
2323	2	1.35	0.08	9.9	-1.3	-1.0	10.5	-61.2	3.2	5.45*	5.45*	5.45*	5.45*
2323	3	1.35	0.32	12.5	1.0	2.6	-8.4	29.0	-3.4	5.45*	5.45*	5.89*	5.89*
2323	4	0.36	0.32	5.7	-0.2	-0.4	-7.5	12.3	3.8	5.45*	5.45*	5.89*	5.89*
2324	1	0.32	0.08	2.2	-0.1	0.1	3.4	5.8	-6.6	5.45*	5.45*	5.89*	5.89*
2324	2	1.19	0.08	3.3	0.4	0.7	9.2	1.9	10.8	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	4.7	0.1	0.1	-6.3	-23.7	-11.0	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	1.2	-0.2	-0.2	-5.3	6.7	6.3	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	-0.3	0.1	-0.1	8.0	-8.2	-5.4	5.89*	5.89*	5.89*	5.89*
2325	2	1.06	0.08	-0.1	0.0	0.1	7.6	2.2	5.8	5.89*	5.89*	5.89*	5.89*
2325	3	1.06	0.32	0.1	0.0	-0.1	-4.2	0.3	-5.7	5.45*	5.45*	5.45*	5.45*
2325	4	0.28	0.32	-1.0	-0.1	0.3	-4.6	-1.0	5.6	5.45*	5.45*	5.45*	5.45*
2452	1	0.36	0.08	9.8	0.4	0.4	255.6	7.8	-1.5	14.85	21.61	5.89*	5.89*
2452	2	1.35	0.08	41.2	-2.8	-6.8	256.1	3.2	-38.9	5.89*	34.41	5.89*	5.89*
2452	3	1.35	0.32	43.6	-0.6	8.4	225.3	-1.3	38.7	5.45*	33.18	5.45*	5.45*
2452	4	0.36	0.32	8.3	0.1	-0.8	226.2	7.8	1.4	13.31	18.97	5.89*	5.89*
2453	1	0.32	0.08	-25.5	-0.5	0.3	255.2	-0.2	-1.4	27.96	7.90	5.89*	5.89*
2453	2	1.19	0.08	-9.8	1.3	1.9	256.0	-4.6	14.1	21.65	14.87	5.89*	5.89*
2453	3	1.19	0.32	-9.6	1.0	-1.1	228.7	-3.2	-14.3	19.27	13.35	5.89*	5.89*
2453	4	0.32	0.32	-26.3	-0.6	-0.4	229.6	-0.2	1.1	26.52	5.89*	5.89*	5.89*
154	1	0.28	0.08	34.0	0.1	-0.8	255.2	-0.6	2.4	5.89*	31.42	5.89*	5.89*
2454	2	1.06	0.08	38.5	-0.1	0.2	254.8	0.7	2.5	5.89*	33.19	5.89*	5.89*
2454	3	1.06	0.32	38.6	0.0	-0.2	231.3	0.8	-2.3	5.89*	31.63	5.89*	5.89*
2454	4	0.28	0.32	33.4	-0.1	1.0	230.8	-0.9	-2.3	5.89*	29.49	5.89*	5.89*
2581	1	0.36	0.08	9.1	0.1	0.3	67.5	33.6	-22.4	5.89*	8.33	5.89*	5.89*
2581	2	1.35	0.08	21.6	-0.7	-3.7	69.3	-39.2	3.7	5.45*	13.32	5.45*	5.45*
2581	3	1.35	0.32	21.4	-0.9	3.6	62.9	-40.1	-4.2	5.45*	12.77	5.45*	5.45*
2581	4	0.36	0.32	9.2	0.1	-0.3	65.0	33.6	21.9	5.89*	8.21	5.89*	5.89*
2582	1	0.32	0.08	-3.9	-0.3	0.1	65.5	15.5	-16.3	6.10	5.89*	5.89*	5.89*
2582	2	1.19	0.08	2.4	0.5	0.7	66.8	-27.4	28.3	5.89*	5.89*	5.89*	5.89*
2582	3	1.19	0.32	2.3	0.5	-0.8	66.8	-27.2	-28.6	5.89*	5.89*	5.89*	5.89*
2582	4	0.32	0.32	-3.8	-0.3	-0.1	68.3	15.5	15.9	6.27	5.89*	5.89*	5.89*
2583	1	0.28	0.08	6.7	0.0	-0.4	65.2	-11.4	-13.3	5.89*	7.23	5.89*	5.89*
2583	2	1.06	0.08	8.5	0.0	0.1	64.9	3.1	14.5	5.89*	7.95	5.89*	5.89*
2583	3	1.06	0.32	8.5	0.0	-0.1	69.4	3.2	-14.5	5.89*	8.25	5.89*	5.89*
2583	4	0.28	0.32	6.8	0.0	0.4	69.1	-11.5	13.4	5.89*	7.51	5.89*	5.89*
2962	1	0.36	0.08	11.4	0.0	0.1	-54.1	21.8	-16.0	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	9.3	0.1	-1.3	-51.9	-29.4	16.9	5.45*	5.45*	5.45*	5.45*
962	3	1.35	0.32	9.3	0.0	1.2	-56.8	-29.5	-17.4	5.45*	5.45*	5.45*	5.45*
962	4	0.36	0.32	11.5	0.0	-0.1	-54.4	21.8	15.4	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	13.8	-0.1	0.1	-57.8	11.4	-11.6	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	12.7	0.1	0.2	-55.7	-18.6	15.4	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	12.7	0.1	-0.2	-52.7	-18.6	-15.9	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	13.8	-0.1	-0.1	-50.5	11.5	11.1	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	-14.3	0.0	-0.2	-58.6	-8.1	-10.6	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	-14.6	0.0	0.1	-58.7	2.1	9.8	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	-14.6	0.0	-0.1	-49.6	2.1	-9.8	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	-14.3	0.0	0.1	-49.8	-8.1	10.6	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	10.4	-0.1	0.1	-91.4	16.3	-12.6	5.45*	5.45*	5.89*	5.89*
2965	2	1.35	0.08	3.7	0.5	-0.2	-89.3	-20.4	19.3	5.45*	5.45*	5.45*	5.45*
2965	3	1.35	0.32	3.7	0.4	0.2	-95.6	-27.1	-19.8	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	10.4	-0.1	-0.1	-93.2	16.4	12.1	5.45*	5.45*	5.89*	5.89*
2966	1	0.32	0.08	17.5	-0.1	0.1	-95.2	9.2	-9.2	5.45*	6.25	5.89*	5.89*
2966	2	1.19	0.08	16.1	0.0	-0.1	-93.2	-15.3	10.1	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	16.1	0.0	0.0	-91.7	-13.3	-10.7	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	17.5	-0.1	-0.1	-89.6	9.2	8.6	5.45*	6.27	5.89*	5.89*
2967	1	0.28	0.08	-19.1	-0.1	-0.1	-96.1	-6.2	-8.8	7.00	5.45*	5.45*	5.45*
2967	2	1.06	0.08	-20.1	0.0	0.1	-96.2	1.5	7.5	7.44	5.45*	5.89*	5.89*
2967	3	1.06	0.32	-20.1	0.0	0.0	-88.8	1.6	-7.4	7.45	5.45*	5.89*	5.89*
2967	4	0.28	0.32	-19.1	-0.1	0.1	-88.9	-6.7	8.8	7.01	5.45*	5.45*	5.45*

2968	1	0.36	0.08	9.8	-0.1	0.0	-94.2	30.3	-22.6	5.45*	5.45*	5.89*	5.89*
2968	2	1.35	0.08	2.2	0.2	0.1	-92.2	-38.6	28.1	5.45*	5.45*	5.45*	5.45*
2968	3	1.35	0.32	2.5	0.5	0.1	-103.5	-45.9	-28.6	5.45*	5.45*	5.45*	5.45*
2968	4	0.36	0.32	9.6	-0.1	-0.1	-101.1	30.5	22.0	5.45*	5.45*	5.89*	5.89*
2969	1	0.32	0.08	17.6	0.0	0.0	-98.5	16.4	-16.4	5.45*	6.31	5.89*	5.89*
2969	2	1.19	0.08	13.7	-0.1	0.0	-96.3	-27.3	20.7	5.45*	5.45*	5.45*	5.45*
2969	3	1.19	0.32	13.9	-0.1	0.1	-99.6	-25.1	-21.3	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	17.5	-0.1	-0.1	-97.2	16.3	15.8	5.45*	6.25	5.89*	5.89*
2970	1	0.28	0.08	-19.3	0.0	0.0	-99.7	-11.3	-15.4	7.08	5.45*	5.45*	5.45*
2970	2	1.06	0.08	-20.4	0.0	0.0	-99.9	2.8	13.8	7.60	5.45*	5.89*	5.89*
2970	3	1.06	0.32	-20.4	0.0	0.0	-96.0	3.0	-13.7	7.59	5.45*	5.89*	5.89*
2970	4	0.28	0.32	-19.4	0.0	0.0	-96.3	-11.8	15.5	7.13	5.45*	5.45*	5.45*
3097	1	0.36	0.08	9.7	0.0	0.0	-66.6	25.7	-18.9	5.45*	5.45*	5.89*	5.89*
3097	2	1.35	0.08	5.0	-0.1	-0.3	-64.6	-34.1	20.7	5.45*	5.45*	5.45*	5.45*
3097	3	1.35	0.32	5.7	0.5	0.8	-76.3	-35.8	-21.2	5.45*	5.45*	5.45*	5.45*
3097	4	0.36	0.32	9.2	-0.1	-0.2	-74.0	25.8	18.3	5.45*	5.45*	5.89*	5.89*
3098	1	0.32	0.08	13.9	-0.1	0.0	-70.7	13.6	-13.8	5.45*	5.45*	5.89*	5.89*
3098	2	1.19	0.08	11.5	0.0	0.1	-69.5	-22.3	18.1	5.45*	5.45*	5.45*	5.45*
3098	3	1.19	0.32	11.9	0.0	0.0	-72.3	-21.2	-18.7	5.45*	5.45*	5.45*	5.45*
3098	4	0.32	0.32	13.7	-0.1	-0.1	-70.0	13.6	13.2	5.45*	5.45*	5.89*	5.89*
3099	1	0.28	0.08	-14.7	0.0	-0.1	-71.7	-9.6	-12.6	5.45*	5.45*	5.45*	5.45*
3099	2	1.06	0.08	-15.4	0.0	0.1	-71.9	2.4	11.6	5.45*	5.45*	5.89*	5.89*
3099	3	1.06	0.32	-15.4	0.0	0.0	-68.8	2.5	-11.5	5.45*	5.45*	5.89*	5.89*
3099	4	0.28	0.32	-14.9	-0.1	0.1	-69.1	-9.7	12.7	5.45*	5.45*	5.45*	5.45*
3226	1	0.36	0.08	8.5	0.0	0.0	-45.1	21.9	-15.9	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	6.4	-0.3	-0.7	-43.2	-28.4	15.8	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	7.2	0.4	1.1	-52.7	-30.3	-16.3	5.45*	5.45*	5.45*	5.45*
3226	4	0.36	0.32	7.9	-0.1	-0.2	-50.5	22.0	15.4	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	9.9	-0.1	0.0	-48.9	11.4	-11.7	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	8.8	0.1	0.2	-46.8	-18.9	15.7	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	9.3	0.0	-0.1	-48.8	-18.4	-16.3	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	9.6	-0.1	-0.1	-46.5	11.4	11.1	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	-10.0	0.0	-0.1	-49.8	-8.0	-10.5	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	-10.3	0.0	0.1	-50.1	2.1	9.8	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	-10.3	0.0	0.0	-45.3	2.1	-9.8	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	-10.2	-0.1	0.1	-45.6	-8.2	10.6	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	8.4	0.1	0.1	-8.9	18.4	-12.9	5.45*	5.45*	5.89*	5.89*
3355	2	1.35	0.08	10.3	-0.7	-1.4	-7.0	-23.6	8.0	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	11.4	0.4	2.0	-20.9	-23.0	-8.5	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	7.7	-0.1	-0.3	-18.7	18.4	12.4	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	5.3	-0.1	0.1	-11.6	9.1	-9.4	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	6.2	0.2	0.5	-10.3	-15.3	14.2	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	6.8	0.1	-0.1	-17.0	-15.4	-14.6	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	4.9	-0.2	-0.1	-15.5	9.1	9.0	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	-4.3	0.0	-0.2	-12.2	-6.6	-8.1	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	-4.1	0.0	0.1	-12.5	1.8	8.1	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	-4.0	0.0	-0.1	-14.4	1.8	-8.1	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	-4.6	-0.1	0.3	-14.7	-6.6	8.2	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	-6.2	0.2	1.5	-99.0	8.0	-8.2	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	-6.2	0.3	-2.4	-165.6	-325.1	23.5	2.72*	2.72*	3.72*	2.72*
3484	3	1.35	0.16	-7.3	0.1	-2.4	-156.4	-323.2	7.9	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	-7.3	0.0	1.6	-89.8	9.8	-23.7	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-10.9	0.0	0.2	-143.1	-4.7	-20.4	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-11.0	-0.6	0.6	-124.7	87.5	15.4	2.72*	2.72*	3.24	3.04
3485	3	1.19	0.16	-10.9	-0.5	0.5	-112.8	89.8	20.3	2.72*	2.72*	3.31	3.14
3485	4	0.32	0.16	-10.8	0.1	0.2	-131.3	-2.3	-15.5	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-14.2	-0.2	0.2	-132.4	4.9	-19.0	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-14.3	-0.4	-0.1	-138.5	-25.5	20.8	2.72*	2.72*	2.72*	2.72*
3486	3	1.06	0.16	-14.3	-0.4	-0.1	-123.8	-22.5	19.0	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-14.3	-0.2	0.2	-117.7	7.8	-20.8	2.72*	2.72*	2.94*	2.94*

C-4

C-5

C-6

C-7

Y-1

C-1

HIPOTESIS NUMERO 7

hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 1.3
Cn = 1.5 Cn = 1.0

ELEM.	P.	X	Y	Nx	Ny	Nxy	Mx	My	Mxy	Asup#	Ainf#	asup/	Ainf/
379	1	0.36	0.08	7.7	0.1	0.8	207.9	9.5	-3.6	6.98	12.70	5.89*	5.89*
379	2	1.35	0.08	40.4	-0.6	-7.8	208.3	41.0	-34.6	5.45*	25.62	5.89*	5.89*
379	3	1.35	0.32	38.2	-2.6	6.3	230.3	-47.3	34.5	5.45*	25.82	5.45*	5.45*
379	4	0.36	0.32	9.2	0.4	-0.4	231.1	11.3	3.4	7.50	14.36	5.89*	5.89*
380	1	0.32	0.08	-24.2	-0.6	3.4	208.5	-1.6	-2.9	19.43	5.45*	5.45*	5.45*
380	2	1.19	0.08	-7.8	0.9	1.0	209.2	-18.8	15.5	12.79	7.01	5.89*	5.89*
380	3	1.19	0.32	-9.0	1.2	-1.8	232.5	6.3	-15.7	14.34	7.66	5.89*	5.89*
380	4	0.32	0.32	-23.4	-0.4	-0.3	233.3	1.0	2.6	20.24	5.89*	5.89*	5.89*
381	1	0.28	0.08	30.8	-0.1	-1.0	208.7	1.8	0.8	5.45*	21.94	5.89*	5.89*
381	2	1.06	0.08	35.6	0.0	0.2	208.3	0.0	3.7	5.45*	23.75	5.45*	5.45*
381	3	1.06	0.32	35.4	-0.1	-0.1	234.7	1.9	-3.6	5.45*	25.00	5.89*	5.89*
381	4	0.28	0.32	31.3	0.1	0.7	234.2	-5.3	-0.7	5.45*	23.43	5.45*	5.45*
382	1	0.36	0.08	4.7	-0.2	0.3	-27.5	19.0	-13.8	5.45*	5.45*	5.89*	5.89*
382	2	1.35	0.08	8.6	1.0	-1.9	-27.1	18.9	9.5	5.45*	5.45*	5.45*	5.45*
382	3	1.35	0.32	6.3	-1.0	0.5	-15.9	-69.5	-9.6	5.45*	5.45*	5.45*	5.45*
382	4	0.36	0.32	6.2	0.1	0.1	-15.2	20.8	13.7	5.45*	5.45*	5.89*	5.89*
383	1	0.32	0.08	3.0	-0.2	0.1	-28.2	10.2	-10.1	5.45*	5.45*	5.89*	5.89*
383	2	1.19	0.08	5.0	0.1	-0.1	-27.5	-29.2	15.3	5.45*	5.45*	5.45*	5.45*
383	3	1.19	0.32	3.8	0.2	-0.5	-14.9	-4.0	-15.5	5.45*	5.45*	5.45*	5.45*
383	4	0.32	0.32	3.8	-0.1	0.0	-14.1	9.4	9.9	5.45*	5.45*	5.89*	5.89*
384	1	0.28	0.08	-3.2	-0.1	-0.3	-28.5	-3.6	-8.8	5.45*	5.45*	5.45*	5.45*
384	2	1.06	0.08	-2.6	0.0	0.1	-28.9	0.9	8.8	5.45*	5.45*	5.89*	5.89*
384	3	1.06	0.32	-2.7	0.0	-0.1	-13.2	2.9	-8.7	5.45*	5.45*	5.89*	5.89*
384	4	0.28	0.32	-2.6	0.1	0.1	-13.6	-10.7	8.9	5.45*	5.45*	5.45*	5.45*
385	1	0.36	0.08	5.5	-0.3	0.1	-146.8	34.7	-26.4	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-5.7	1.5	1.0	-146.4	-15.9	36.7	5.45*	5.45*	5.45*	5.45*
385	3	1.35	0.32	-7.6	-0.2	-2.1	-144.2	-84.2	-36.9	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	6.8	0.0	0.3	-143.5	36.0	26.3	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	19.3	0.0	0.0	-148.1	19.7	-19.1	5.45*	7.09	5.89*	5.89*
386	2	1.19	0.08	13.8	-0.4	-0.6	-147.5	-40.4	23.6	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	12.7	-0.2	0.1	-143.7	-21.0	-23.8	5.45*	5.45*	5.45*	5.45*
386	4	0.32	0.32	20.0	0.1	0.1	-142.9	19.1	18.9	5.45*	7.40	5.89*	5.89*
387	1	0.28	0.08	-22.9	-0.1	0.1	-148.7	-10.9	-18.4	8.77	5.45*	5.45*	5.45*
387	2	1.06	0.08	-24.5	0.1	0.0	-149.0	2.7	16.1	9.49	5.45*	5.89*	5.89*
387	3	1.06	0.32	-24.6	0.0	0.0	-142.4	4.1	-16.0	9.52	5.45*	5.89*	5.89*
387	4	0.28	0.32	-22.4	0.1	-0.2	-142.7	-16.4	18.6	8.54	5.45*	5.45*	5.45*
514	1	0.36	0.08	7.6	-0.3	0.0	-169.3	47.7	-35.6	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-7.4	1.5	1.6	-169.4	-32.9	46.3	5.45*	5.45*	5.45*	5.45*
514	3	1.35	0.32	-8.6	0.4	-2.2	-171.9	-102.1	-46.3	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	8.4	-0.1	0.2	-171.7	49.1	35.7	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	24.7	0.0	0.0	-170.4	26.5	-25.9	5.45*	9.66	5.89*	5.89*
515	2	1.19	0.08	17.2	-0.5	-0.6	-169.9	-51.6	33.1	5.45*	6.08	5.45*	5.45*
515	3	1.19	0.32	16.6	-0.4	0.3	-172.3	-32.0	-33.3	5.45*	5.76	5.45*	5.45*
515	4	0.32	0.32	25.1	0.1	0.0	-171.6	25.9	25.7	5.45*	9.88	5.89*	5.89*
516	1	0.28	0.08	-28.9	-0.1	0.1	-171.0	-15.7	-24.8	11.69	5.45*	5.45*	5.45*
516	2	1.06	0.08	-31.1	0.1	0.0	-171.2	3.9	21.9	12.72	5.45*	5.89*	5.89*
516	3	1.06	0.32	-31.1	0.1	0.0	-171.7	5.4	-21.8	12.76	5.45*	5.89*	5.89*
516	4	0.28	0.32	-28.6	0.0	-0.2	-171.6	-21.2	24.8	11.58	5.45*	5.45*	5.45*
643	1	0.36	0.08	10.1	-0.3	0.0	-166.9	59.4	-43.2	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-5.3	1.1	1.4	-167.1	-91.6	50.6	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-5.6	0.7	-1.7	-170.3	-80.9	-50.6	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	10.4	-0.2	0.1	-170.1	59.4	43.2	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	26.8	0.0	0.0	-168.1	31.5	-31.3	5.45*	10.67	5.89*	5.89*
644	2	1.19	0.08	19.1	-0.4	-0.4	-167.6	-50.8	41.8	5.45*	7.00	5.45*	5.45*
644	3	1.19	0.32	18.9	-0.4	0.3	-170.6	-51.0	-42.0	5.45*	6.87	5.45*	5.45*
644	4	0.32	0.32	27.0	0.0	0.0	-170.0	31.5	31.1	5.45*	10.77	5.89*	5.89*
645	1	0.28	0.08	-30.8	-0.1	0.1	-168.6	-22.4	-29.5	12.57	5.45*	5.45*	5.45*
645	2	1.06	0.08	-33.0	0.1	0.0	-168.8	5.7	26.7	13.64	5.45*	5.89*	5.89*
645	3	1.06	0.32	-33.0	0.1	0.0	-169.8	5.7	-26.6	13.66	5.45*	5.89*	5.89*
645	4	0.28	0.32	-30.6	0.0	-0.1	-170.0	-22.3	29.6	12.52	5.45*	5.45*	5.45*
772	1	0.36	0.08	11.3	-0.2	-0.1	-160.8	65.0	-46.9	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-3.7	0.8	1.3	-161.0	-88.0	51.5	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-3.8	0.7	-1.3	-164.7	-87.9	-51.5	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	11.4	-0.2	0.1	-164.6	65.0	46.9	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	27.3	0.0	0.0	-161.9	34.1	-34.0	5.45*	10.86	5.89*	5.89*
773	2	1.19	0.08	19.7	-0.4	-0.3	-161.5	-55.5	46.5	5.45*	7.29	5.45*	5.45*
773	3	1.19	0.32	19.7	-0.4	0.3	-165.0	-55.5	-46.6	5.45*	7.26	5.45*	5.45*
773	4	0.32	0.32	27.3	0.0	0.0	-164.5	34.1	33.9	5.45*	10.88	5.89*	5.89*
774	1	0.28	0.08	-30.9	0.0	0.1	-162.4	-24.3	-31.8	12.60	5.45*	5.45*	5.45*
774	2	1.06	0.08	-33.1	0.1	0.0	-162.5	6.2	29.1	13.65	5.45*	5.89*	5.89*
774	3	1.06	0.32	-33.1	0.1	0.0	-164.3	6.2	-29.1	13.66	5.45*	5.89*	5.89*
774	4	0.28	0.32	-30.9	0.0	-0.1	-164.5	-24.3	31.9	12.60	5.45*	5.45*	5.45*
901	1	0.36	0.08	12.2	-0.2	0.0	-140.4	67.3	-48.1	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-0.5	0.6	0.7	-140.5	-89.5	49.0	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-0.5	0.6	-0.7	-145.4	-90.4	-49.0	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	12.2	-0.2	0.1	-145.3	67.3	48.2	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	25.7	0.0	0.0	-141.2	34.9	-34.9	5.45*	10.02	5.89*	5.89*
902	2	1.19	0.08	19.3	-0.3	-0.1	-141.0	-57.3	49.0	5.45*	7.08	5.45*	5.45*
902	3	1.19	0.32	19.3	-0.3	0.2	-145.6	-57.1	-49.1	5.45*	7.08	5.45*	5.45*
902	4	0.32	0.32	25.6	0.0	0.0	-145.2	34.9	34.8	5.45*	10.03	5.89*	5.89*
903	1	0.28	0.08	-28.7	0.0	0.1	-141.6	-24.9	-32.4	11.44	5.45*	5.45*	5.45*
903	2	1.06	0.08	-30.6	0.1	0.0	-141.7	6.4	30.0	12.31	5.45*	5.89*	5.89*
903	3	1.06	0.32	-30.6	0.1	0.0	-145.1	6.4	-30.0	12.33	5.45*	5.89*	5.89*
903	4	0.28	0.32	-28.7	0.0	0.0	-145.2	-25.0	32.4	11.46	5.45*	5.45*	5.45*
1030	1	0.36	0.08	13.2	-0.1	0.0	-111.2	69.7	-49.3	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.8	0.3	0.0	-111.4	-92.2	44.7	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	4.0	0.5	0.2	-116.0	-91.0	-44.7	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	13.0	-0.2	-0.1	-115.9	69.7	49.3	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	22.9	-0.1	0.0	-111.8	35.6	-35.7	5.45*	8.74	5.89*	5.89*
1031	2	1.19	0.08	18.2	-0.2	0.0	-111.7	-58.7	51.9	5.45*	6.65	5.45*	5.45*
1031	3	1.19	0.32	18.3	-0.2	0.1	-116.0	-59.0	-52.0	5.45*	6.68	5.45*	5.45*
1031	4	0.32	0.32	22.9	-0.1	-0.1	-115.8	35.6	35.7	5.45*	8.71	5.89*	5.89*
1032	1	0.28	0.08	-25.1	0.0	0.0	-112.1	-25.6	-32.7	9.71	5.45*	5.45*	5.45*
1032	2	1.06	0.08	-26.5	0.1	0.0	-112.1	6.7	30.9	10.33	5.45*	5.89*	5.89*
1032	3	1.06	0.32	-26.5	0.1	-0.1	-115.7	6.6	-30.9	10.33	5.45*	5.89*	5.89*
1032	4	0.28	0.32	-25.1	0.0	0.1	-115.7	-25.5	32.7	9.74	5.45*	5.45*	5.45*
1159	1	0.36	0.08	13.4	-0.2	0.1	-105.5	78.3	-55.0	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	5.5	0.4	-0.4	-105.7	-103.2	47.0	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	5.3	0.3	0.3	-102.9	-100.8	-47.0	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	13.5	-0.1	0.0	-102.7	78.2	55.0	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	22.1	-0.1	0.1	-105.8	39.6	-39.9	5.45*	8.37	5.89*	5.89*
1160	2	1.19	0.08	18.1	-0.2	0.0	-105.8	-65.5	58.9	5.45*	6.60	5.45*	5.45*

1160	3	1.19	0.32	18.0	-0.1	-0.1	-103.0	-66.2	-59.0	5.45*	6.57	5.45*	5.45*
1160	4	0.32	0.32	22.1	-0.1	-0.1	-102.8	39.7	39.9	5.45*	8.40	5.89*	5.89*
1161	1	0.28	0.08	-24.1	0.0	-0.1	-105.9	-28.6	-36.3	9.26	5.45*	5.45*	5.45*
1161	2	1.06	0.08	-25.3	0.1	0.0	-106.0	7.5	34.6	9.78	5.45*	5.89*	5.89*
1161	3	1.06	0.32	-25.3	0.1	0.0	-102.8	7.4	-34.6	9.78	5.45*	5.89*	5.89*
1161	4	0.28	0.32	-24.1	0.0	0.1	-102.9	-28.4	36.3	9.24	5.45*	5.45*	5.45*
1288	1	0.36	0.04	-9.7	0.0	0.0	-240.2	3.2	9.5	2.72*	2.72*	2.94*	2.94*
1288	2	1.35	0.04	-10.0	-1.7	4.0	-284.7	-219.2	33.5	2.72*	2.72*	2.72*	2.72*
1288	3	1.35	0.16	-8.9	-1.5	4.0	-277.7	-217.9	23.1	2.72*	2.72*	2.72*	2.72*
1288	4	0.36	0.16	-8.5	0.2	-0.1	-233.2	4.6	-0.9	2.72*	2.72*	2.94*	2.94*
1289	1	0.32	0.04	-17.0	0.2	0.0	-264.0	-0.8	-3.1	2.96	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-17.2	-0.6	-1.1	-252.2	58.3	-14.0	3.00	2.72*	2.94*	2.94*
1289	3	1.19	0.16	-17.5	-0.7	-1.1	-255.8	57.5	-10.8	3.11	2.72*	2.94*	2.94*
1289	4	0.32	0.16	-17.4	0.2	0.0	-267.6	-1.5	0.1	3.07	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-23.8	-0.3	0.1	-258.9	3.2	2.7	4.81	2.72*	2.72*	2.72*
1290	2	1.06	0.04	-23.9	-0.7	0.3	-262.6	-14.9	5.1	4.85	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-23.8	-0.7	0.3	-261.6	-14.7	4.9	4.82	2.72*	2.72*	2.72*
1290	4	0.28	0.16	-23.7	-0.3	0.1	-258.0	3.4	1.6	4.79	2.72*	2.72*	2.72*
1291	1	0.36	0.08	12.9	0.4	1.1	458.7	29.4	-13.5	17.25	26.33	5.89*	5.89*
1291	2	1.35	0.08	72.3	-3.2	-13.1	459.2	-18.8	-61.0	5.45*	50.09	5.45*	5.45*
1291	3	1.35	0.32	72.3	-3.2	13.1	457.0	-17.9	60.9	5.45*	49.97	5.45*	5.45*
1291	4	0.36	0.32	12.9	0.4	-1.1	457.7	29.4	13.3	17.20	26.29	5.89*	5.89*
1292	1	0.32	0.08	-49.4	-0.9	0.6	459.9	7.4	-10.2	41.19	5.89*	5.89*	5.89*
1292	2	1.19	0.08	-19.7	2.0	2.6	460.7	-19.9	37.2	29.17	14.36	5.89*	5.89*
1292	3	1.19	0.32	-19.7	2.0	-2.6	460.8	-20.1	-37.4	29.18	14.37	5.89*	5.89*
1292	4	0.32	0.32	-49.4	-0.9	-0.6	461.7	7.5	10.0	41.28	5.89*	5.89*	5.89*
1293	1	0.28	0.08	63.3	0.1	-1.5	460.5	-7.0	-2.9	5.45*	46.71	5.45*	5.45*
1293	2	1.06	0.08	71.9	-0.1	0.3	460.1	2.8	11.2	5.45*	49.98	5.89*	5.89*
1293	3	1.06	0.32	71.9	-0.1	-0.3	463.7	2.8	-11.1	5.45*	50.15	5.89*	5.89*
1293	4	0.28	0.32	63.3	0.1	1.5	463.3	-6.9	3.0	5.45*	46.85	5.45*	5.45*
1672	1	0.36	0.08	7.9	-0.1	0.2	-33.6	25.0	-17.8	5.45*	5.45*	5.89*	5.89*
1672	2	1.35	0.08	10.4	0.6	-1.9	-31.8	-36.0	14.9	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	8.8	-0.9	0.9	-24.1	-29.1	-15.3	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	8.9	0.1	0.0	-22.0	24.9	17.3	5.45*	5.45*	5.89*	5.89*
1673	1	0.32	0.08	6.9	-0.2	0.1	-35.6	12.6	-12.9	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	9.2	0.1	0.0	-34.4	-20.0	18.6	5.45*	5.45*	5.45*	5.45*
1673	3	1.19	0.32	7.4	0.2	-0.6	-21.0	-22.0	-19.0	5.45*	5.45*	5.45*	5.45*
1673	4	0.32	0.32	7.5	-0.1	0.0	-19.6	12.7	12.6	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	-7.2	-0.1	-0.3	-36.1	-9.4	-11.5	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	-6.8	0.0	0.0	-36.3	2.4	11.1	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	-6.8	0.0	0.0	-18.8	2.3	-11.0	5.45*	5.45*	5.89*	5.89*
1674	4	0.28	0.32	-6.8	0.1	0.1	-19.0	-8.8	11.6	5.45*	5.45*	5.45*	5.45*
1675	1	0.36	0.08	0.9	-0.2	0.2	-105.6	10.0	-8.5	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	1.1	1.2	-0.1	-102.9	-19.2	19.2	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	-0.4	-0.1	-0.8	-104.6	-13.6	-19.6	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	0.0	0.0	0.1	-102.6	9.9	8.0	5.45*	5.45*	5.89*	5.89*
1676	1	0.32	0.08	16.9	-0.1	0.1	-108.9	6.3	-6.2	5.45*	6.08	5.89*	5.89*
1676	2	1.19	0.08	13.4	-0.1	-0.4	-107.0	-8.4	4.7	5.45*	5.45*	5.45*	5.45*
1676	3	1.19	0.32	12.7	0.0	-0.1	-101.7	-10.1	-5.2	5.45*	5.45*	5.45*	5.45*
1676	4	0.32	0.32	12.4	0.0	0.0	-99.8	6.4	5.7	5.45*	6.32	5.89*	5.89*
1677	1	0.28	0.08	-19.2	-0.1	-0.1	-109.7	-4.5	-6.4	7.13	5.45*	5.45*	5.45*
1677	2	1.06	0.08	-20.2	0.1	0.1	-109.9	1.0	4.8	7.55	5.45*	5.89*	5.89*
1677	3	1.06	0.32	-20.3	0.0	-0.1	-98.9	0.9	-4.8	7.60	5.45*	5.89*	5.89*
1677	4	0.28	0.32	-19.9	0.0	0.0	-99.1	-4.0	5.5	7.08	5.45*	5.45*	5.45*
1678	1	0.36	0.08	9.4	-0.2	0.1	-152.7	17.4	-14.5	5.45*	5.45*	5.89*	5.89*
1678	2	1.35	0.08	-2.7	1.2	1.0	-151.1	-26.5	31.8	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-4.7	0.4	-1.5	-153.6	-20.2	-32.2	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	10.0	-0.1	0.1	-151.7	17.6	14.1	5.45*	5.45*	5.89*	5.89*
1679	1	0.32	0.08	24.2	0.0	0.0	-156.3	10.9	-10.5	5.45*	9.39	5.89*	5.89*
1679	2	1.19	0.08	17.6	-0.3	-0.5	-154.5	-16.6	8.8	5.45*	6.30	5.45*	5.45*
1679	3	1.19	0.32	17.2	-0.2	0.2	-150.9	-15.5	-9.3	5.45*	6.09	5.45*	5.45*
1679	4	0.32	0.32	24.5	0.1	0.0	-149.0	10.9	10.0	5.45*	9.52	5.89*	5.89*
1680	1	0.28	0.08	-27.8	-0.1	0.0	-157.3	-7.3	-10.9	11.08	5.45*	5.45*	5.45*
1680	2	1.06	0.08	-29.7	0.1	0.0	-157.5	1.6	8.3	11.96	5.45*	5.89*	5.89*
1680	3	1.06	0.32	-29.7	0.0	0.0	-148.2	1.7	-8.3	11.94	5.45*	5.89*	5.89*
1680	4	0.28	0.32	-27.6	0.0	-0.1	-148.4	-7.6	11.0	10.94	5.45*	5.45*	5.45*
1807	1	0.36	0.08	10.2	-0.2	0.0	-175.0	18.4	-15.4	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-6.2	1.1	1.6	-175.1	-31.6	35.5	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-6.4	1.0	-1.7	-175.0	-29.7	-35.5	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	10.3	-0.2	0.1	-174.8	18.7	15.4	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	27.6	0.0	0.0	-176.7	11.8	-11.2	5.45*	11.11	5.89*	5.89*
1808	2	1.19	0.08	19.5	-0.3	-0.5	-175.9	-17.0	9.4	5.45*	7.15	5.45*	5.45*
1808	3	1.19	0.32	19.4	-0.3	0.4	-175.2	-17.5	-9.7	5.45*	7.11	5.45*	5.45*
1808	4	0.32	0.32	27.7	0.0	0.0	-174.2	11.8	10.9	5.45*	11.12	5.89*	5.89*
1809	1	0.28	0.08	-31.6	-0.1	0.1	-177.4	-8.1	-11.9	13.05	5.45*	5.45*	5.45*
1809	2	1.06	0.08	-34.0	0.1	0.0	-177.7	1.9	9.0	14.20	5.45*	5.89*	5.89*
809	3	1.06	0.32	-34.0	0.1	0.0	-173.6	1.8	-8.9	14.17	5.45*	5.89*	5.89*
1809	4	0.28	0.32	-31.6	-0.1	-0.1	-173.9	-7.9	12.0	13.00	5.45*	5.45*	5.45*
1936	1	0.36	0.08	10.6	-0.2	-0.1	-159.5	24.6	-18.8	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-4.4	0.8	1.4	-159.6	-72.5	35.8	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-4.1	1.0	-1.2	-160.1	-0.9	-35.8	5.45*	5.45*	5.45*	5.45*
1936	4	0.36	0.32	10.4	-0.2	0.0	-159.9	23.3	18.8	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	26.0	0.0	0.0	-161.2	13.8	-13.7	5.45*	10.26	5.89*	5.89*
1937	2	1.19	0.08	18.5	-0.3	-0.3	-160.3	-11.3	13.9	5.45*	6.72	5.45*	5.45*
1937	3	1.19	0.32	18.2	-0.3	0.4	-160.2	-31.7	-14.1	5.45*	6.80	5.45*	5.45*
1937	4	0.32	0.32	25.9	0.0	0.0	-159.2	14.5	13.4	5.45*	10.20	5.89*	5.89*
1938	1	0.28	0.08	-29.4	-0.1	0.1	-161.8	-12.6	-13.9	11.89	5.45*	5.45*	5.45*
1938	2	1.06	0.08	-31.6	0.1	0.1	-162.1	3.1	11.2	12.92	5.45*	5.89*	5.89*
1938	3	1.06	0.32	-31.6	0.1	0.0	-158.7	1.5	-11.1	12.90	5.45*	5.89*	5.89*
1938	4	0.28	0.32	-29.5	-0.1	-0.1	-159.0	-6.9	14.0	11.91	5.45*	5.45*	5.45*
2065	1	0.36	0.08	9.9	-0.1	-0.1	-141.6	22.9	-17.3	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-3.6	0.4	1.3	-141.7	-69.2	32.0	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-2.6	1.2	-0.8	-143.3	1.8	-32.0	5.45*	5.45*	5.45*	5.45*
2065	4	0.36	0.32	9.2	-0.3	-0.1	-143.1	21.5	17.4	5.45*	5.45*	5.89*	5.89*
2066	1	0.32	0.08	23.1	0.0	0.0	-143.1	12.7	-12.6	5.45*	8.83	5.89*	5.89*
2066	2	1.19	0.08	16.3	-0.2	-0.2	-142.4	-9.7	13.1	5.45*	5.72	5.45*	5.45*
2066	3	1.19	0.32	16.8	-0.2	0.4	-143.2	-29.9	-13.3	5.45*	5.96	5.45*	5.45*
2066	4	0.32	0.32	22.7	0.0	-0.1	-142.3	13.4	12.3	5.45*	8.68	5.89*	5.89*
2067	1	0.28	0.08	-25.9	0.0	0.1	-143.8	-11.8	-12.8	10.09	5.45*	5.45*	5.45*
2067	2	1.06	0.08	-27.8	0.0	0.1	-144.1	2.9	10.4	11.01	5.45*	5.89*	5.89*
2067	3	1.06	0.32	-27.7	0.1	0.0	-141.7	1.4	-10.3	10.98	5.45*	5.89*	5.89*
2067	4	0.28	0.32	-26.1	-0.1	0.0	-142.0	-6.1	12.8	10.21	5.45*	5.45*	5.45*
2194	1	0.36	0.08	7.9	0.0	-0.2	-105.3	18.7	-13.7	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-2.2	-0.2	1.1	-105.4	-72.3	24.0	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-0.3	1.4	0.0	-110.8	19.1	-24.0	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	8.7	-0.3	-0.2	-110.6	16.9	13.8	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	16.2	0.0	0.0	-106.9	9.8	-10.0	5.45*	5.99	5.89*	5.89*
2195	2	1.19	0.08	11.5	-0.1	0.0	-106.1	-2.8	10.8	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	12.6	-0.2	0.5	-110.3	-28.8	-11.0	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	16.0	-0.1	-0.1	-109.4	10.7	9.8	5.45*	5.69	5.89*	5.89*
2196	1	0.28	0.08	-18.1	0.0	0.1	-107.4	-10.0	-10.0	6.63	5.45*	5.45*	5.45*
2196	2	1.06	0.08	-19.7	0.0	0.1	-107.7	2.7	8.3	7.31	5.45*	5.89*	5.89*
2196	3	1.06	0.32	-19.6	0.1	0.0	-108.8	0.7	-8.2	7.26	5.45*	5.89*	5.89*
2196	4	0.28	0.32	-18.6	-0.1	0.1	-109.1	-3.4	10.1	6.85	5.45*	5.45*	5.45*
2323	1	0.36	0.08	2.4	0.2	-0.1	10.0	14.2	-9.0	5.45*	5.45*	5.89*	5.89*
2323	2	1.35	0.08	5.9	-1.3	-1.0	10.5	-61.2	3.2	5.45*	5.45*	5.45*	5.45*

2323	3	1.35	0.32	12.5	1.0	2.6	-8.4	29.0	-3.4	5.45*	5.45*	5.45*	5.45*
2323	4	0.36	0.32	3.7	-0.2	-0.4	-7.5	12.3	8.8	5.45*	5.45*	5.89*	5.89*
2324	1	0.32	0.08	2.2	-0.1	0.1	6.4	5.8	-6.6	5.45*	5.45*	5.89*	5.89*
2324	2	1.19	0.08	3.3	0.4	0.7	9.2	1.9	10.8	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	4.7	0.1	0.1	-6.3	-23.7	-11.0	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	1.2	-0.2	-0.2	-5.3	6.7	6.3	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	-0.3	0.1	-0.1	8.0	-8.2	-5.4	5.89*	5.89*	5.89*	5.89*
2325	2	1.06	0.08	-0.1	0.0	0.1	7.6	2.2	5.8	5.89*	5.89*	5.89*	5.89*
2325	3	1.06	0.32	0.1	0.0	-0.1	4.2	0.3	-5.7	5.45*	5.45*	5.45*	5.45*
2325	4	0.28	0.32	-1.0	-0.1	0.3	-4.6	-1.0	5.6	5.45*	5.45*	5.45*	5.45*
2452	1	0.36	0.08	9.9	0.4	0.4	255.6	7.8	-1.5	8.46	15.73	5.89*	5.89*
2452	2	1.35	0.08	41.2	-2.9	-6.8	256.1	3.2	-28.9	5.45*	28.26	5.45*	5.45*
2452	3	1.35	0.32	43.6	-0.6	8.4	225.3	-1.3	38.7	5.45*	27.67	5.45*	5.45*
2452	4	0.36	0.32	8.3	0.1	-0.8	226.2	7.8	1.4	7.65	13.77	5.89*	5.89*
2453	1	0.32	0.08	-25.5	-0.5	0.3	255.2	-0.2	-1.4	22.09	5.89*	5.89*	5.89*
2453	2	1.19	0.08	-9.8	1.3	1.9	256.0	-4.6	14.1	15.76	2.47	5.89*	5.89*
2453	3	1.19	0.32	-8.6	1.0	-1.1	228.7	-3.2	-14.3	14.01	7.64	5.89*	5.89*
'53	4	0.32	0.32	-26.3	-0.6	-0.4	229.6	-0.2	1.1	21.32	5.45*	5.45*	5.45*
454	1	0.28	0.08	34.0	0.1	-0.8	255.2	-0.6	2.4	5.45*	25.48	5.45*	5.45*
2454	2	1.06	0.08	38.5	-0.1	0.2	254.8	3.7	2.5	5.45*	27.14	5.45*	5.45*
2454	3	1.06	0.32	38.6	0.0	-0.2	231.3	0.8	-2.3	5.45*	26.04	5.89*	5.89*
2454	4	0.28	0.32	33.4	-0.1	1.0	230.8	-0.9	-2.3	5.45*	24.04	5.45*	5.45*
2581	1	0.36	0.08	9.1	0.1	0.2	67.5	33.6	-22.4	5.45*	6.76	5.89*	5.89*
2581	2	1.35	0.08	21.6	-0.7	-3.7	69.3	-39.2	3.7	5.45*	11.63	5.45*	5.45*
2581	3	1.35	0.32	21.4	-0.9	3.6	62.9	-40.1	-4.2	5.45*	11.25	5.45*	5.45*
2581	4	0.36	0.32	9.2	0.1	-0.3	65.0	33.6	21.9	5.45*	6.68	5.89*	5.89*
2582	1	0.32	0.08	-3.9	-0.3	0.1	65.5	15.5	-16.3	5.89*	5.89*	5.89*	5.89*
:2	2	1.19	0.08	2.4	0.5	0.7	66.8	-27.4	28.3	5.89*	5.89*	5.89*	5.89*
2582	3	1.19	0.32	2.3	0.5	-0.8	66.8	-27.2	-28.6	5.89*	5.89*	5.89*	5.89*
2582	4	0.32	0.32	-3.8	-0.3	-0.1	68.3	15.5	15.9	5.89*	5.89*	5.89*	5.89*
2583	1	0.28	0.08	6.7	0.0	-0.4	65.2	-11.4	-13.3	5.89*	5.89*	5.89*	5.89*
2583	2	1.06	0.08	8.5	0.0	0.1	64.9	3.1	14.5	5.45*	6.44	5.89*	5.89*
2583	3	1.06	0.32	8.5	0.0	-0.1	69.4	3.2	-14.5	5.45*	6.66	5.89*	5.89*
2583	4	0.28	0.32	6.8	0.0	0.4	69.1	-11.5	13.4	5.89*	5.92	5.89*	5.89*
2962	1	0.36	0.08	11.9	0.0	0.1	-54.1	21.8	-16.0	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	9.3	0.1	-1.3	-51.9	-29.4	16.9	5.45*	5.45*	5.45*	5.45*
62	3	1.35	0.32	9.3	0.0	1.2	-56.8	-29.5	-17.4	5.45*	5.45*	5.45*	5.45*
.962	4	0.36	0.32	11.5	0.0	-0.1	-54.4	21.8	15.4	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	13.8	-0.1	0.1	-57.8	11.4	-11.6	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	12.7	0.1	0.2	-55.7	-18.6	15.4	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	12.7	0.1	-0.2	-52.7	-18.6	-15.9	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	13.8	-0.1	-0.1	-50.5	11.5	11.1	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	-14.3	0.0	-0.2	-58.6	-8.1	-10.6	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	-14.6	0.0	0.1	-58.7	2.1	9.8	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	-14.6	0.0	-0.1	-49.6	2.1	-9.8	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	-14.3	0.0	0.1	-49.8	-8.1	10.6	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	10.4	-0.1	0.1	-91.4	16.3	-12.6	5.45*	5.45*	5.89*	5.89*
2965	2	1.35	0.08	3.7	0.5	-0.2	-89.3	-20.4	19.3	5.45*	5.45*	5.45*	5.45*
2965	3	1.35	0.32	3.7	0.4	0.2	-95.6	-27.1	-19.8	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	10.4	-0.1	-0.1	-93.2	16.4	12.1	5.45*	5.45*	5.89*	5.89*
2966	1	0.32	0.08	17.5	-0.1	0.1	-95.2	9.2	-9.2	5.45*	6.38	5.89*	5.89*
2966	2	1.19	0.08	14.1	0.0	-0.1	-93.2	-15.3	10.1	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	14.1	0.0	0.0	-91.7	-13.3	-10.7	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	17.5	-0.1	-0.1	-89.6	9.2	8.6	5.45*	6.40	5.89*	5.89*
2967	1	0.28	0.08	-19.1	-0.1	-0.1	-96.1	-6.2	-8.8	7.08	5.45*	5.45*	5.45*
7	2	1.06	0.08	-20.1	0.0	0.1	-96.2	1.5	7.5	7.49	5.45*	5.89*	5.89*
2967	3	1.06	0.32	-20.1	0.0	0.0	-88.8	1.6	-7.4	7.51	5.45*	5.89*	5.89*
2967	4	0.28	0.32	-19.1	-0.1	0.1	-88.9	-6.7	8.8	7.09	5.45*	5.45*	5.45*

2968	1	0.36	0.08	9.8	-0.1	0.0	-94.2	30.3	-22.6	5.45*	5.45*	5.89*	5.89*
2968	2	1.35	0.08	2.2	0.2	0.1	-92.2	-38.6	28.1	5.45*	5.45*	5.45*	5.45*
2968	3	1.35	0.32	2.5	0.5	0.1	-103.5	-45.4	-28.6	5.45*	5.45*	5.45*	5.45*
2968	4	0.36	0.32	9.6	-0.1	-0.1	-101.1	30.5	42.0	5.45*	5.45*	5.89*	5.89*
2969	1	0.32	0.08	17.6	0.0	0.0	-98.5	16.6	-16.4	5.45*	5.45	5.89*	5.89*
2969	2	1.19	0.08	13.7	-0.1	0.0	-96.3	-27.3	20.7	5.45*	5.45*	5.45*	5.45*
2969	3	1.19	0.32	13.9	-0.1	0.1	-99.6	-25.1	-21.3	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	17.5	-0.1	-0.1	-97.2	16.3	15.8	5.45*	5.45*	5.89*	5.89*
2970	1	0.28	0.08	-19.3	0.0	0.0	-99.7	-11.3	-15.4	7.15	5.45*	5.45*	5.45*
2970	2	1.06	0.08	-20.4	0.0	0.0	-99.9	2.8	13.8	7.64	5.45*	5.89*	5.89*
2970	3	1.06	0.32	-20.4	0.0	0.0	-96.0	3.0	-13.7	7.63	5.45*	5.89*	5.89*
2970	4	0.28	0.32	-19.4	0.0	0.0	-96.3	-11.8	15.5	7.20	5.45*	5.45*	5.45*
3097	1	0.36	0.08	9.7	0.0	0.0	-66.6	25.7	-18.9	5.45*	5.45*	5.89*	5.89*
3097	2	1.35	0.08	5.0	-0.1	-0.3	-64.6	-34.1	20.7	5.45*	5.45*	5.45*	5.45*
3097	3	1.35	0.32	5.7	0.5	0.3	-76.3	-35.8	-21.2	5.45*	5.45*	5.45*	5.45*
3097	4	0.36	0.32	9.2	-0.1	-0.2	-74.0	25.8	18.3	5.45*	5.45*	5.89*	5.89*
3098	1	0.32	0.08	13.9	-0.1	0.0	-70.7	13.6	-13.8	5.45*	5.45*	5.89*	5.89*
3098	2	1.19	0.08	11.5	0.0	0.1	-68.5	-22.3	18.1	5.45*	5.45*	5.45*	5.45*
)98	3	1.19	0.32	11.9	0.0	0.0	-72.3	-21.7	-18.7	5.45*	5.45*	5.45*	5.45*
3098	4	0.32	0.32	13.7	-0.1	0.1	-70.0	13.6	13.2	5.45*	5.45*	5.89*	5.89*
3099	1	0.28	0.08	-14.7	0.0	-0.1	-71.7	-9.6	-12.6	5.45*	5.45*	5.45*	5.45*
3099	2	1.06	0.08	-15.4	0.0	0.1	-71.9	2.4	11.6	5.59	5.45*	5.89*	5.89*
3099	3	1.06	0.32	-15.4	0.0	0.0	-68.8	2.5	-11.5	5.58	5.45*	5.89*	5.89*
3099	4	0.28	0.32	-14.9	-0.1	0.1	-69.1	-9.7	12.7	5.45*	5.45*	5.45*	5.45*
3226	1	0.36	0.08	8.5	0.0	0.0	-45.1	21.9	-15.9	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	6.4	-0.3	-0.7	-43.2	-28.4	15.8	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	7.2	0.4	1.1	-52.7	-30.3	-16.3	5.45*	5.45*	5.45*	5.45*
3226	4	0.36	0.32	7.9	-0.1	-0.2	-50.5	22.0	15.4	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	9.9	-0.1	0.0	-48.9	11.4	-11.7	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	8.8	0.1	0.2	-46.8	-18.9	15.7	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	9.3	0.0	-0.1	-48.8	-18.4	-16.3	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	9.6	-0.1	-0.1	-46.5	11.4	11.1	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	-10.0	0.0	-0.1	-49.8	-8.0	-10.5	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	-10.3	0.0	0.1	-50.1	2.1	9.8	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	-10.3	0.0	0.0	-45.3	2.1	-9.8	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	-10.2	-0.1	0.1	-45.6	-8.2	10.6	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	8.4	0.1	0.1	-8.9	18.4	-12.9	5.45*	5.45*	5.89*	5.89*
355	2	1.35	0.08	10.3	-0.7	-1.4	-7.0	-23.6	8.0	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	11.4	0.4	2.0	-20.9	-23.0	-8.5	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	7.7	-0.1	-0.3	-18.7	18.4	12.4	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	5.3	-0.1	0.1	-11.6	9.1	-9.4	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	6.2	0.2	0.5	-10.3	-15.3	14.2	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	6.8	0.1	-0.1	-17.0	-15.4	-14.6	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	4.9	-0.2	-0.1	-15.5	9.1	9.0	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	-4.3	0.0	-0.2	-12.2	-6.6	-8.1	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	-4.1	0.0	0.1	-12.5	1.8	8.1	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	-4.9	0.0	-0.1	-14.4	1.8	-8.1	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	-4.6	-0.1	0.3	-14.7	-6.6	8.2	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	-6.2	0.2	1.5	-99.0	9.8	-8.2	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	-6.2	0.3	-2.4	-165.6	-325.1	23.5	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	-7.3	0.1	-2.4	-156.4	-323.2	7.9	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	-7.3	0.0	1.6	-89.8	9.8	-23.7	2.72*	2.72*	2.72*	2.72*
3485	1	0.32	0.04	-10.9	0.0	0.2	-143.1	-4.7	-20.4	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-11.0	-0.6	0.6	-124.7	87.5	13.4	2.72*	2.72*	2.94*	2.94*
3485	3	1.19	0.16	-10.9	-0.5	0.5	-112.8	89.8	20.3	2.72*	2.72*	2.94*	2.94*
3485	4	0.32	0.16	-10.8	0.1	0.2	-131.7	-2.3	-15.5	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-14.2	-0.2	0.2	-132.4	4.9	-19.0	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-14.3	-0.4	-0.1	-138.5	-25.5	20.8	2.72*	2.72*	2.72*	2.72*

3486	3	1.06	0.16	-14.3	-0.4	-0.1	-123.9	-22.5	19.6	2.72*	2.72*	2.72*	2.72*
3486	4	2.23	0.16	-14.5	-0.4	-0.1	-123.5	-22.5	19.6	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 1

hipo 1 carga permanente + s. de uso

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	N
1291	1	0.36	0.08	12.97	0.37	1.16	57.06	2.59	437.50	-43.30	35
1291	2	1.35	0.08	69.61	-2.81	-12.54	57.70	-50.90	437.66	71.27	-85
1291	3	1.35	0.32	69.77	-2.66	12.65	58.18	51.48	434.79	71.85	85
1291	4	0.36	0.32	12.87	0.34	-1.19	56.42	-2.92	435.23	-43.31	-36

HIPOTESIS NUMERO 2

hipo 2 pretensado almas desarrollado (t=0)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	NXY
1291	1	0.36	0.08	-0.12	0.03	-0.06	-1.37	-0.19	-10.93	6.00	-4.3
1291	2	1.35	0.08	-1.36	-0.03	0.25	-1.23	0.71	-10.95	-8.24	5.1
1291	3	1.35	0.32	-1.39	-0.06	-0.28	-1.33	-0.86	-10.19	-8.20	-5.1
1291	4	0.36	0.32	-0.10	0.04	0.06	-1.19	0.28	-10.20	6.00	4.3

HIPOTESIS NUMERO 3

hipo 3 pret. long. proceso (t=0)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	N
1291	1	0.36	0.08	-0.21	-0.04	-0.03	-1.74	-0.27	-13.93	17.51	-12
1291	2	1.35	0.08	-1.91	0.09	0.35	-1.73	1.44	-13.72	-22.37	8
1291	3	1.35	0.32	-1.92	0.08	-0.35	-1.73	-1.44	-14.81	-22.37	-8
1291	4	0.36	0.32	-0.20	-0.04	0.03	-1.72	0.27	-14.60	17.50	12

HIPOTESIS NUMERO 4

hipo 4 pret. long. servicio (t=0) (superior)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	NXY
1291	1	0.36	0.08	0.85	0.10	0.15	12.21	-0.19	102.36	39.92	-25.6
1291	2	1.35	0.08	13.31	-0.71	-2.49	12.67	-10.88	102.38	-45.39	-2.3
1291	3	1.35	0.32	13.17	-0.83	2.41	12.28	10.40	103.81	-45.33	2.3
1291	4	0.36	0.32	0.94	0.12	-0.13	12.74	0.45	103.84	39.92	25.6

HIPOTESIS NUMERO 5

hipo 5 pret. long. servicio (t=0) (inferior)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	N
1291	1	0.36	0.08	-0.61	-0.03	-0.15	-6.33	-0.53	-51.71	22.26	-1€
1291	2	1.35	0.08	-6.79	0.24	1.26	-6.23	5.06	-51.51	-30.01	1€
1291	3	1.35	0.32	-6.81	0.21	-1.28	-6.28	-5.21	-51.91	-29.80	-1€
1291	4	0.36	0.32	-0.60	-0.02	0.15	-6.18	0.64	-51.72	22.25	1ᵹ

HIPOTESIS NUMERO 6

hipo 6 c.p. + s.uso + pret. almas (t=0) + pret. long. (t=0)

ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	NXY
1291	1	0.36	0.08	12.88	0.43	1.08	59.84	1.42	463.29	42.40	-22.2
1291	2	1.35	0.08	72.86	-3.23	-13.18	61.18	-54.57	463.86	-34.74	-56.9
1291	3	1.35	0.32	72.82	-3.26	13.14	61.12	54.36	461.69	-33.86	56.7
1291	4	0.36	0.32	12.90	0.43	-1.08	60.07	-1.28	462.55	42.37	22.1

HIPOTESIS NUMERO 7

hipo 7 c.p. + s.uso + pret. almas (t=inf.) + pret. long. (t=inf.)

ESFUERZOS EN ELEMENTOS

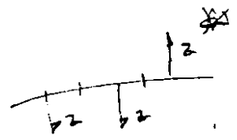
ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	NX	NY	
1291	1	0.36	0.08	12.89	0.42	1.09	59.33	1.59	458.69	29.44	-1
1291	2	1.35	0.08	72.28	-3.16	-13.06	60.58	-53.96	459.19	-18.76	-6
1291	3	1.35	0.32	72.27	-3.17	13.05	60.59	53.86	456.96	-17.92	6
1291	4	0.36	0.32	12.89	0.42	-1.09	59.43	-1.52	457.75	29.42	1

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO_____ HOJA____ DE____
FECHA_____

ARMADURA TOTAL DE CORTILLAS SUPERIORES

Hipótesis de viga viga tabla



Vano	Cortillas	Asup		Ainf	
3	1	62	5 x 3 ϕ12	62	5 x 3 ϕ12
	2	32	5+2 ϕ12	31	5+2 ϕ12
	3	6	5ϕ20	6	5ϕ20
	4	10	5ϕ20	6	"
	5	11	5ϕ20	14	"
	6	15	5ϕ20	6	"
	7	15	5ϕ20	12	"
	8	13	5ϕ20	6	"
	9	11	5ϕ20	6	"
	10	10	5ϕ20	6	"
	11	12	5ϕ20	6	5ϕ20
2	1	9		6	
	2	6		6	
	3	8		6	
	4	12		6	
	5	6		12	
	6	14		6	
	7	11		6	
	8	6		6	

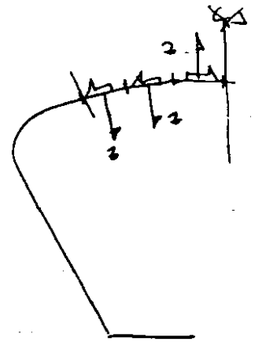
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PROYECTO_____ HOJA____ DE____
FECHA_____

Vano	Cortillas	Asup	Ainf
2	9	6	6
	10	35	27
1	1		
	2	6	6
	3	8	6
	4	6	6
	5	6	6
	6	6	6
	7		

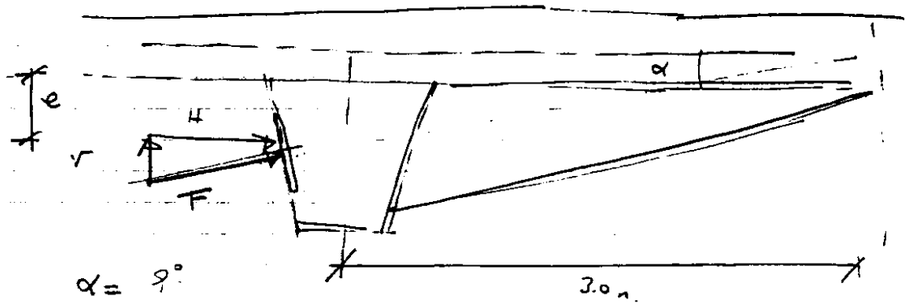
OBSERVACIONES

Desde la arranque de los elementos finales, en los 2 primeros elementos de cuadros inf corresponde al lado opuesto a la cabilla. El 3er elemento se invierte orientado con forma de sombrero hexagonal



Hipótesis de proceso constructivo

DIMENSIONAMIENTO DE LAS CARTELAS INFERIORES



$\alpha = 9°$

$H = F\cos\alpha$

$V = F\,\mathrm{sen}\,\alpha$

$b = 1.0\,m \quad e = 0.26$

Vols $24\phi 0.6''$ $\quad F = 2.486\,T$ $\quad \begin{cases} H = 2.486 \cdot \cos 9 = 960\,T \\ V = 2.486 \cdot \mathrm{sen}\,9 = 153.T \end{cases}$

a) Armadura de flexión

$M_d = 1.5 \cdot 960 \cdot 0.26 = 374.40\,mT$

$\mu = \dfrac{374.40}{2.80^2 \cdot 1 \cdot \frac{60}{1.5}} = 0.0119 \qquad \omega = 0.012$

$A_s = 0.012 \cdot 2.80 \cdot 1 \cdot \frac{60}{1.5} = 134.40\,T \rightarrow 32\,cm^2$

b) Armadura de cortante

$A_{sv} = \dfrac{V_d}{f_{yd}\cos\theta} \qquad \cos\theta = 1.40 \qquad A_{sv} = \dfrac{1.5 \cdot 960}{4.2 \cdot 1.40} = 245\,cm^2$

. Armadura principal

$A_s = \frac{2}{3} A_N = \frac{2}{3} 241 = 163\,cm^2$ $\quad 34\phi 24''$ $\quad 2 \times 18\phi 24''$

. Armadura tendel

$A_s = \frac{1}{3} \cdot A_N = \frac{241}{3} = 82\,cm^2 \qquad a_1 = \frac{\pi}{3} \cdot 17.33\,cm^2$

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OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

COMPARACIÓN DE COTILLAS EN PROYECTO CONSTRUCCIÓN

OBJETO

Debido a que las cotillas toman puntuales en hipótesis cuando la encuentra en la fase de apoyo y cuando en la hipótesis de pilar propia cotilla trabajando en flexión transversal (en la propia hipótesis) se tiende a comprimir las cotillas, el cumplimiento exigiría las diferentes hipótesis de construcción, redujendo las cotillas que la encuentra sobre los apoyos.

METODOLOGÍA

Se redujeron en cada hipótesis las cotillas que se encuentra sobre los apoyos, por ampliar la hipótesis a la envolvente aspecto en hipótesis de tracción

Proceso Constructivo (Comprobación de hipótesis estudiadas).

Hipótesis	Vano	Castilla	Element	Asup	Ainf
1	3	1	1291-93.	33.	20
	2	1	2581-93.	-	-
	1	1	3494-96	-	-
3	3	1	1291-93.	42	36 ←
	3	11	1288-90	-	-
4	3.	6	643-64.	12.	12.
	2	6	1936-38	09.	21.
	1	6	3226-28	15.	15.
5	3	4	385-391	21.	21
	2	4	1678-80	14.	14
	1	4	2968-70	1.-	1.-
6	3	3	382-384	33	33 ←
	2	3	1675-77	13.	13.
	1	3	2966-67	12.	12.

Proceso Constructivo (Estudio a la envolvente).

Vano	Castilla	N (T/m) ref	Nact	Asuma	Asup	Ainf
3	1	353	"	48	36	36
	2	"	317	42		
	3	"	281	36		
	4		244	30		
	5		208	24		
	6		209	18.		
	7					
	8					
	9					
	10					
	11			18.		
2	1	140		48		
	2	"				
	3					
	4					
	5					
	6	"		18		
	7			26		
	8			34		
	9			41		
	10	353		48		

HIPOTESIS NUMERO 1

hipo 1 p. propio (proceso hipo-1) (voladizo de 57.0) + pret (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cn = 1.5 Cn = 1.5

ELEM.	P.	X	Y	Mx	My	Mxy	Nx	Ny	Nxy	Asup X	Ainf X	Asup Y	Ainf Y
379	1	0.36	0.08	0.1	0.2	0.6	251.8	21.3	-11.2	18.81	17.45	5.89*	5.89*
379	2	1.35	0.08	35.9	-1.5	-7.0	251.5	37.3	-33.6	5.89*	31.91	5.89*	5.89*
379	3	1.35	0.32	35.0	-2.2	6.5	258.2	-71.6	33.7	5.89*	32.04	5.89*	5.89*
379	4	0.36	0.32	0.7	0.3	-0.5	258.2	23.4	11.4	19.07	18.08	5.89*	5.89*
380	1	0.32	0.08	-36.5	-0.5	0.3	254.0	-7.4	-8.4	32.36	5.89*	5.89*	5.89*
380	2	1.19	0.08	-18.6	1.0	1.2	253.7	-31.5	25.9	25.05	10.83	5.89*	5.89*
380	3	1.19	0.32	-19.1	1.1	-1.5	259.4	-0.5	-25.8	25.63	11.05	5.89*	5.89*
380	4	0.32	0.32	-36.2	-0.4	-0.2	259.1	6.3	8.5	32.58	5.89*	5.89*	5.89*
381	1	0.28	0.08	44.5	0.0	-0.8	254.9	-1.5	-4.0	5.45*	35.75	5.45*	5.45*
381	2	1.06	0.08	49.7	-0.1	0.1	255.0	0.9	8.7	5.45*	37.71	5.89*	5.89*
381	3	1.06	0.32	49.6	-0.1	-0.1	259.5	3.3	-8.8	5.45*	38.02	5.89*	5.89*
381	4	0.28	0.32	44.7	0.1	0.7	259.6	-10.2	3.9	5.45*	36.20	5.45*	5.45*
382	1	0.36	0.08	-2.7	-0.1	0.4	83.0	9.4	-5.6	6.83	5.89*	5.89*	5.89*
382	2	1.35	0.08	13.9	0.0	-3.1	82.7	45.0	-12.3	5.89*	11.33	5.89*	5.89*
382	3	1.35	0.32	12.4	-1.3	2.2	97.2	-62.9	12.3	5.89*	11.74	5.89*	5.89*
382	4	0.36	0.32	-1.7	0.2	-0.1	97.1	11.6	5.7	7.40	6.52	5.89*	5.89*
383	1	0.32	0.08	-18.5	-0.3	0.2	84.6	4.1	-4.2	13.27	5.45*	5.89*	5.89*
383	2	1.19	0.08	-10.2	0.4	0.2	84.2	-23.1	11.5	9.94	5.89*	5.89*	5.89*
383	3	1.19	0.32	-11.0	0.5	-0.7	97.3	7.6	-11.4	11.17	5.89*	5.89*	5.89*
383	4	0.32	0.32	-18.0	-0.2	-0.1	97.1	3.0	4.2	14.01	5.45*	5.89*	5.89*
384	1	0.28	0.08	21.6	-0.1	-0.4	85.1	1.4	-2.4	5.45*	14.49	5.89*	5.89*
384	2	1.06	0.08	24.1	0.0	0.1	85.3	-0.2	4.2	5.45*	15.44	5.45*	5.45*
384	3	1.06	0.32	24.0	0.0	-0.1	97.0	2.1	-4.2	5.45*	16.27	5.89*	5.89*
384	4	0.28	0.32	22.0	0.1	0.2	97.2	-7.3	2.3	5.45*	15.53	5.45*	5.45*
385	1	0.36	0.08	-4.6	-0.2	0.1	-55.5	10.2	-8.2	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-5.5	0.6	0.6	-55.9	26.1	11.4	5.45*	5.45*	5.89*	5.89*
385	3	1.35	0.32	-6.5	-0.2	-1.2	-48.6	-57.3	-11.3	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	-4.0	0.0	0.1	-48.7	11.9	8.2	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	-2.7	0.0	0.0	-54.8	6.5	-5.9	5.45*	5.45*	5.89*	5.89*
386	2	1.19	0.08	-3.1	-0.1	-0.4	-55.1	-21.4	7.5	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	-3.6	-0.1	0.1	-49.1	2.3	-7.4	5.45*	5.45*	5.89*	5.89*
386	4	0.32	0.32	-2.4	0.1	0.0	-49.3	5.6	6.0	5.45*	5.45*	5.89*	5.89*
387	1	0.28	0.08	2.0	-0.1	0.0	-54.5	-0.9	-5.8	5.45*	5.45*	5.45*	5.45*
387	2	1.06	0.08	1.9	0.0	0.0	-54.4	0.2	5.0	5.45*	5.45*	5.45*	5.45*
387	3	1.06	0.32	1.9	0.0	0.0	-49.6	1.9	-5.0	5.45*	5.45*	5.89*	5.89*
387	4	0.28	0.32	2.2	0.0	-0.1	-49.5	-7.6	5.7	5.45*	5.45*	5.45*	5.45*
514	1	0.36	0.08	-3.9	-0.1	-0.1	-82.5	15.7	-12.6	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-9.4	0.5	1.5	-82.7	18.1	20.2	5.45*	5.45*	5.89*	5.89*
514	3	1.35	0.32	-9.6	0.3	-1.6	-85.4	-66.3	-20.2	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	-3.8	-0.1	0.1	-85.3	17.3	12.6	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	2.2	0.1	-0.1	-82.2	9.8	-9.0	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-0.6	-0.2	-0.4	-82.6	-26.5	10.5	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-0.7	-0.2	0.3	-85.5	-2.5	-10.4	5.45*	5.45*	5.45*	5.45*
515	4	0.32	0.32	2.2	0.1	0.1	-85.8	8.9	9.1	5.45*	5.45*	5.89*	5.89*
516	1	0.28	0.08	-3.6	0.0	0.2	-82.2	-3.1	-9.1	5.45*	5.45*	5.45*	5.45*
516	2	1.06	0.08	-4.4	0.0	0.0	-82.0	0.7	7.5	5.45*	5.45*	5.89*	5.89*
516	3	1.06	0.32	-4.4	0.0	0.0	-86.0	2.5	-7.6	5.45*	5.45*	5.89*	5.89*
516	4	0.28	0.32	-3.6	0.0	-0.2	-86.0	-9.9	9.0	5.45*	5.45*	5.45*	5.45*
643	1	0.36	0.08	-3.3	-0.1	-0.1	-73.4	18.6	-13.9	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-7.9	0.3	1.3	-73.6	-25.9	19.9	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-7.9	0.3	-1.3	-76.3	-27.0	-19.9	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	-3.3	-0.1	0.1	-76.2	18.6	13.9	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	1.6	0.1	-0.1	-73.0	10.3	-10.0	5.45*	5.45*	5.89*	5.89*
644	2	1.19	0.08	-0.7	-0.2	-0.3	-73.5	-16.4	12.4	5.45*	5.45*	5.45*	5.45*
644	3	1.19	0.32	-0.7	-0.2	0.3	-76.3	-16.0	-12.3	5.45*	5.45*	5.45*	5.45*
644	4	0.32	0.32	1.6	0.1	0.0	-76.6	10.2	10.1	5.45*	5.45*	5.89*	5.89*
645	1	0.28	0.08	-2.7	0.0	0.1	-73.0	-7.1	-9.8	5.45*	5.45*	5.45*	5.45*
645	2	1.06	0.08	-3.4	0.0	0.0	-72.8	1.8	8.4	5.45*	5.45*	5.89*	5.89*
645	3	1.06	0.32	-3.4	0.0	0.0	-76.9	1.8	-8.5	5.45*	5.45*	5.89*	5.89*
645	4	0.28	0.32	-2.8	0.0	-0.1	-76.8	-7.2	9.8	5.45*	5.45*	5.45*	5.45*
772	1	0.36	0.08	-2.9	-0.1	-0.1	-59.0	17.1	-12.7	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-6.0	0.1	1.0	-59.2	-23.3	16.7	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-5.8	0.3	-0.9	-62.4	-24.7	-16.7	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	-3.1	-0.1	0.1	-62.3	17.1	12.6	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	0.2	0.1	-0.1	-58.6	9.3	-9.1	5.45*	5.45*	5.89*	5.89*
773	2	1.19	0.08	-1.4	-0.1	-0.1	-59.0	-15.0	11.7	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	-1.3	-0.2	0.2	-62.4	-14.6	-11.6	5.45*	5.45*	5.45*	5.45*
773	4	0.32	0.32	0.1	0.0	0.0	-62.7	9.3	9.2	5.45*	5.45*	5.89*	5.89*
774	1	0.28	0.08	-0.9	0.0	0.1	-58.5	-6.5	-8.8	5.45*	5.45*	5.45*	5.45*
774	2	1.06	0.08	-1.4	0.0	0.0	-58.3	1.6	7.7	5.45*	5.45*	5.89*	5.89*
774	3	1.06	0.32	-1.4	0.0	0.0	-63.0	1.6	-7.8	5.45*	5.45*	5.89*	5.89*
774	4	0.28	0.32	-0.9	0.0	-0.1	-62.9	-6.6	8.8	5.45*	5.45*	5.45*	5.45*
901	1	0.36	0.08	-2.1	0.0	0.0	-30.2	14.9	-10.7	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-2.0	-0.1	0.3	-30.4	-19.0	11.3	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-1.9	0.1	-0.1	-34.7	-21.1	-11.2	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	-2.5	0.0	0.0	-34.6	14.9	10.7	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	-2.8	0.0	0.0	-29.6	7.8	-7.7	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	-2.7	0.0	0.0	-30.1	-13.0	10.9	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	-2.6	-0.1	0.1	-34.5	-12.4	-10.8	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	-2.9	0.0	0.0	-34.8	7.8	7.8	5.45*	5.45*	5.89*	5.89*
903	1	0.28	0.08	2.9	0.0	0.1	-29.4	-5.5	-7.2	5.45*	5.45*	5.45*	5.45*
903	2	1.06	0.08	2.9	0.0	0.0	-29.3	1.4	6.7	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	2.9	0.0	0.0	-35.1	1.4	-6.7	5.45*	5.45*	5.89*	5.89*
903	4	0.28	0.32	2.8	0.0	0.0	-35.0	-5.7	7.2	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-1.4	0.0	0.0	2.1	16.7	-11.4	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.0	-0.3	-0.7	2.0	-21.3	6.3	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	3.0	-0.3	0.7	-0.7	-20.4	-6.3	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-1.4	0.0	0.0	-0.6	16.6	11.4	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	-6.0	-0.1	0.0	2.9	8.1	-8.2	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	-3.8	0.1	0.2	2.5	-13.7	13.3	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	-3.8	0.1	-0.1	-0.4	-13.9	-13.2	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	-6.0	-0.1	0.0	-0.8	8.1	8.3	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	6.9	0.0	-0.1	3.2	-5.9	-7.2	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	7.5	0.0	0.0	3.4	1.4	7.3	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	7.5	0.0	0.0	-0.9	1.4	-7.3	5.45*	5.45*	5.89*	5.89*
1032	4	0.28	0.32	6.9	0.0	0.1	-0.8	-5.9	7.2	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-1.3	-0.1	0.1	-26.1	30.1	-21.0	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	1.3	0.3	-0.6	-26.3	-40.4	16.5	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	0.5	-0.7	-0.1	-14.0	-37.3	-16.5	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	-0.6	0.1	0.1	-13.9	30.1	21.0	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	-3.1	-0.1	0.0	-25.1	15.1	-15.2	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	-1.7	-0.1	-0.1	-25.6	-24.8	23.0	5.45*	5.45*	5.45*	5.45*

1160	3	1.19	0.32	-2.2	0.0	-0.3	-14.1	-25.7	-22.9	5.45*	5.45*	5.45*	5.45*
1160	4	0.32	0.32	-2.7	0.0	0.0	-14.5	15.1	15.3	5.45*	5.45*	5.89*	5.89*
1161	1	0.28	0.08	3.1	0.0	-0.1	-24.8	-11.0	-13.7	5.45*	5.45*	5.45*	5.45*
1161	2	1.06	0.08	3.5	0.0	0.0	-24.6	2.9	13.3	5.45*	5.45*	5.89*	5.89*
1161	3	1.06	0.32	3.5	0.0	0.0	-14.8	2.9	-13.3	5.45*	5.45*	5.89*	5.89*
1161	4	0.28	0.32	3.4	0.1	-0.1	-14.7	-10.8	13.7	5.45*	5.45*	5.45*	5.45*
1288	1	0.36	0.04	1.1	0.4	0.7	-289.3	-0.9	-6.1	2.72*	2.72*	2.72*	2.72*
1288	2	1.35	0.04	1.4	1.9	-2.1	-284.1	25.1	4.8	2.72*	2.72*	2.94*	2.94*
1288	3	1.35	0.16	0.6	1.7	-2.1	-280.9	25.8	6.0	2.72*	2.72*	2.94*	2.94*
1288	4	0.36	0.16	0.3	0.2	0.8	-286.1	-0.3	-4.9	2.72*	2.72*	2.72*	2.72*
1289	1	0.32	0.04	-5.7	0.2	-0.1	-287.3	-0.1	-5.6	2.72*	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-5.9	-1.1	0.4	-288.8	-7.4	5.9	2.72*	2.72*	2.72*	2.72*
1289	3	1.19	0.16	-5.8	-1.0	0.3	-284.9	-6.7	5.5	2.72*	2.72*	2.72*	2.72*
1289	4	0.32	0.16	-5.5	0.2	-0.1	-283.5	0.7	-6.0	2.72*	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-10.2	-0.1	0.0	-289.2	-1.0	-6.6	2.72*	2.72*	2.72*	2.72*
1290	2	1.06	0.04	-10.2	-0.2	-0.1	-288.8	1.4	6.4	2.72*	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-10.2	-0.2	-0.1	-283.9	2.4	6.6	2.72*	2.72*	2.94*	2.94*
290	4	0.28	0.16	-10.2	-0.1	0.0	-284.4	0.0	-6.5	2.72*	2.72*	2.72*	2.72*
291	1	0.36	0.08	0.8	0.3	0.5	289.9	30.7	-16.6	21.38	20.33	5.89*	5.89*
1291	2	1.35	0.08	39.5	-2.3	-7.4	289.6	-25.3	-35.1	5.89*	36.00	5.89*	5.89*
1291	3	1.35	0.32	39.8	-1.9	-7.6	285.0	-27.6	35.1	5.89*	35.83	5.89*	5.89*
1291	4	0.36	0.32	0.6	0.3	-0.6	284.9	30.7	16.6	21.11	19.90	5.89*	5.89*
1292	1	0.32	0.08	-40.1	-0.5	0.3	291.9	10.5	-12.3	36.40	5.89*	5.89*	5.89*
1292	2	1.19	0.08	-20.7	1.1	1.6	291.6	-22.8	33.4	28.53	12.73	5.89*	5.89*
1292	3	1.19	0.32	-20.5	1.1	-1.5	286.6	-22.4	-33.3	28.11	12.43	5.89*	5.89*
1292	4	0.32	0.32	-40.2	-0.5	-0.3	286.4	10.5	12.4	36.07	5.89*	5.89*	5.89*
1293	1	0.28	0.08	49.3	0.1	-0.8	292.7	-8.5	-7.0	5.89*	40.21	5.89*	5.89*
93	2	1.06	0.08	54.9	-0.1	0.1	292.9	2.9	12.3	5.45*	42.48	5.89*	5.89*
1293	3	1.06	0.32	54.9	-0.1	-0.1	286.9	2.9	-12.3	5.45*	42.04	5.89*	5.89*
1293	4	0.28	0.32	49.2	0.1	0.9	287.0	-8.6	6.9	5.45*	39.94	5.45*	5.45*
1672	1	0.36	0.08	-2.0	0.0	0.1	16.8	33.0	-22.4	5.89*	5.89*	5.89*	5.89*
1672	2	1.35	0.08	4.9	-0.3	-1.1	16.8	-44.2	11.1	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	4.7	-0.5	0.9	19.9	-37.3	-11.2	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	-1.8	0.0	-0.1	20.2	32.9	22.3	5.89*	5.89*	5.89*	5.89*
1673	1	0.32	0.08	-8.9	-0.1	0.0	17.0	15.8	-16.3	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	-5.5	0.1	0.2	17.0	-26.2	26.9	5.45*	5.45*	5.45*	5.45*
673	3	1.19	0.32	-5.6	0.1	-0.3	20.6	-28.2	-26.5	5.45*	5.45*	5.45*	5.45*
673	4	0.32	0.32	-8.8	-0.1	0.0	20.9	15.9	16.2	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	10.4	0.0	-0.1	17.1	-11.8	-14.1	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	11.4	0.0	0.0	17.1	3.2	14.4	5.45*	5.57	5.89*	5.89*
1674	3	1.06	0.32	11.4	0.0	0.0	21.1	3.1	-14.3	5.45*	5.85	5.89*	5.89*
1674	4	0.28	0.32	10.4	0.0	0.1	21.0	-11.3	14.1	5.45*	5.50	5.45*	5.45*
1675	1	0.36	0.08	-2.6	-0.1	0.0	-24.3	11.0	-7.6	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	-0.5	0.1	-0.1	-24.3	-17.6	5.9	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	-0.7	-0.1	0.0	-19.5	-10.5	-6.0	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	-2.5	0.0	0.0	-19.2	10.8	7.6	5.45*	5.45*	5.89*	5.89*
1676	1	0.32	0.08	-4.5	0.0	0.0	-24.2	5.4	-5.5	5.45*	5.45*	5.89*	5.89*
1676	2	1.19	0.08	-3.5	0.0	-0.1	-24.2	-8.1	8.3	5.45*	5.45*	5.45*	5.45*
1676	3	1.19	0.32	-3.6	0.0	0.0	-19.0	-10.2	-8.3	5.45*	5.45*	5.45*	5.45*
1676	4	0.32	0.32	-4.4	0.0	0.0	-18.8	5.5	5.5	5.45*	5.45*	5.89*	5.89*
1677	1	0.28	0.08	4.8	0.0	0.0	-24.1	-4.2	-5.0	5.45*	5.45*	5.45*	5.45*
1677	2	1.06	0.08	5.2	0.0	0.0	-24.1	1.1	4.8	5.45*	5.45*	5.89*	5.89*
1677	3	1.06	0.32	5.1	0.0	0.0	-18.7	1.0	-4.8	5.45*	5.45*	5.89*	5.89*
1677	4	0.28	0.32	4.9	0.0	0.0	-18.7	-3.7	5.0	5.45*	5.45*	5.45*	5.45*
1678	1	0.36	0.08	-3.5	-0.1	-0.1	-72.6	15.6	-11.8	5.45*	5.45*	5.89*	5.89*
8	2	1.35	0.08	-7.4	0.4	1.1	-72.7	-20.4	17.9	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-7.7	0.1	-1.3	-70.1	-24.7	-17.9	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	-3.3	-0.1	0.1	-69.8	15.7	11.8	5.45*	5.45*	5.89*	5.89*
1679	1	0.32	0.08	1.0	0.1	0.0	-72.8	8.7	-8.5	5.45*	5.45*	5.89*	5.89*
1679	2	1.19	0.08	-0.9	-0.2	-0.3	-72.7	-14.3	10.1	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	-1.1	-0.2	0.2	-69.9	-13.0	-10.2	5.45*	5.45*	5.45*	5.45*
1679	4	0.32	0.32	1.1	0.1	0.1	-69.8	8.7	8.5	5.45*	5.45*	5.89*	5.89*
1680	1	0.28	0.08	-2.1	0.0	0.1	-72.8	-5.9	-8.9	5.45*	5.45*	5.45*	5.45*
1680	2	1.06	0.08	-2.7	0.0	0.0	-72.8	1.4	7.1	5.45*	5.45*	5.89*	5.89*
1680	3	1.06	0.32	-2.7	0.0	0.0	-69.7	1.5	-7.1	5.45*	5.45*	5.89*	5.89*
1680	4	0.28	0.32	-2.0	0.0	-0.2	-69.8	-6.3	8.4	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	-3.5	-0.1	-0.1	-84.9	16.0	-12.1	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-9.3	0.4	1.6	-85.0	-24.4	19.3	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-9.2	0.5	-1.5	-84.4	-22.2	-19.3	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	-3.5	-0.1	0.1	-84.3	15.9	12.1	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	2.6	0.1	0.0	-85.0	9.0	-8.8	5.45*	5.45*	5.89*	5.89*
1808	2	1.19	0.08	-0.3	-0.2	-0.4	-85.1	-13.7	10.2	5.45*	5.45*	5.45*	5.45*
1808	3	1.19	0.32	-0.3	-0.2	0.4	-84.4	-14.3	-10.2	5.45*	5.45*	5.45*	5.45*
1808	4	0.32	0.32	2.6	0.1	0.0	-84.3	9.0	8.8	5.45*	5.45*	5.89*	5.89*
1809	1	0.28	0.08	-4.0	0.0	0.1	-85.1	-6.4	-8.7	5.45*	5.45*	5.45*	5.45*
1809	2	1.06	0.08	-4.8	0.0	0.0	-85.1	1.6	7.3	5.45*	5.45*	5.89*	5.89*
809	3	1.06	0.32	-4.8	0.0	0.0	-84.3	1.5	-7.3	5.45*	5.45*	5.89*	5.89*
1809	4	0.28	0.32	-4.0	0.0	-0.1	-84.4	-6.2	8.2	5.45*	5.45*	5.45*	5.45*
1936	1	0.36	0.08	-3.1	-0.1	-0.1	-61.4	24.3	-16.9	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-6.2	0.2	1.0	-61.5	-74.5	19.2	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-6.0	0.3	-0.9	-60.3	10.8	-19.2	5.45*	5.45*	5.89*	5.89*
1936	4	0.36	0.32	-3.2	-0.1	0.0	-60.2	22.6	16.9	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	0.6	0.0	0.0	-61.3	11.9	-12.3	5.45*	5.45*	5.89*	5.89*
1937	2	1.19	0.08	-1.6	-0.2	-0.2	-61.4	-7.9	16.7	5.45*	5.45*	5.45*	5.45*
1937	3	1.19	0.32	-1.4	-0.2	0.2	-60.2	-32.2	-16.7	5.45*	5.45*	5.45*	5.45*
1937	4	0.32	0.32	-0.1	0.0	0.0	-60.1	12.8	12.3	5.45*	5.45*	5.89*	5.89*
1938	1	0.28	0.08	-0.7	0.0	0.1	-61.4	-12.2	-11.6	5.45*	5.45*	5.45*	5.45*
1938	2	1.06	0.08	-1.1	0.0	0.0	-61.4	3.1	10.5	5.45*	5.45*	5.89*	5.89*
1938	3	1.06	0.32	-1.1	0.0	0.0	-60.1	1.3	-10.5	5.45*	5.45*	5.89*	5.89*
1938	4	0.28	0.32	-0.7	0.0	-0.1	-60.1	-5.3	11.6	5.45*	5.45*	5.45*	5.45*
2065	1	0.36	0.08	-3.2	-0.1	-0.1	-47.2	26.7	-18.4	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-8.6	0.0	0.7	-47.4	-76.8	17.5	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-8.3	0.2	-0.6	-45.3	8.4	-17.5	5.45*	5.45*	5.89*	5.89*
2065	4	0.36	0.32	-3.4	-0.1	0.0	-45.2	25.0	18.4	5.45*	5.45*	5.89*	5.89*
2066	1	0.32	0.08	-1.9	0.0	0.0	-47.1	12.9	-13.3	5.45*	5.45*	5.89*	5.89*
166	2	1.19	0.08	-2.6	-0.1	-0.1	-47.2	-9.8	19.1	5.45*	5.45*	5.45*	5.45*
2066	3	1.19	0.32	-2.5	-0.1	0.2	-45.2	-34.0	-19.1	5.45*	5.45*	5.45*	5.45*
2066	4	0.32	0.32	-2.0	0.0	0.0	-45.1	13.2	13.3	5.45*	5.45*	5.89*	5.89*
2067	1	0.28	0.08	1.7	0.0	0.1	-47.1	-12.9	-12.3	5.45*	5.45*	5.45*	5.45*
2067	2	1.06	0.08	1.4	0.0	0.0	-47.1	3.4	11.5	5.45*	5.45*	5.89*	5.89*
2067	3	1.06	0.32	1.5	0.0	0.0	-45.1	1.6	-11.5	5.45*	5.45*	5.89*	5.89*
2067	4	0.28	0.32	1.6	0.0	-0.1	-45.1	-6.1	12.3	5.45*	5.45*	5.45*	5.45*
2194	1	0.36	0.08	-3.6	0.0	-0.1	-33.7	29.3	-19.8	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-7.6	-0.2	0.5	-33.9	-91.5	15.9	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-7.1	0.2	-0.3	-31.8	18.4	-15.9	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	-4.0	-0.1	0.0	-31.7	27.1	19.8	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	-4.4	0.0	0.0	-33.5	13.7	-14.3	5.45*	5.45*	5.89*	5.89*
2195	2	1.19	0.08	-4.1	-0.1	0.0	-33.7	-8.0	21.5	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	-3.8	-0.1	0.1	-31.6	-39.4	-21.4	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	-4.3	0.0	0.0	-31.6	14.8	14.3	5.45*	5.45*	5.89*	5.89*
2196	1	0.28	0.08	4.3	0.0	0.1	-33.5	-14.7	-13.0	5.45*	5.45*	5.45*	5.45*
2196	2	1.06	0.08	4.3	0.0	0.0	-33.4	3.9	12.4	5.45*	5.45*	5.89*	5.89*
2196	3	1.06	0.32	4.3	0.0	0.0	-31.6	1.5	-12.5	5.45*	5.45*	5.89*	5.89*
2196	4	0.28	0.32	4.2	0.0	-0.1	-31.6	-5.8	13.0	5.45*	5.45*	5.45*	5.45*
2323	1	0.36	0.08	-4.0	0.1	0.0	18.9	31.3	-20.2	5.45*	5.45*	5.89*	5.89*
2323	2	1.35	0.08	1.9	-0.6	-0.5	18.7	-90.8	7.3	5.89*	5.89*	5.89*	5.89*

2323	3	1.35	0.32	2.6	0.0	0.9	13.1	17.5	-7.3	5.45*	5.45*	5.89*	5.89*
2323	4	0.36	0.32	-4.5	-0.1	-0.1	13.2	23.1	20.3	5.45*	5.45*	5.89*	5.89*
2324	1	0.32	0.08	-10.8	0.0	0.0	19.4	13.8	-14.7	5.52	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-7.9	0.1	0.3	19.2	-9.4	24.8	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	-7.5	0.1	0.0	13.6	-40.2	-24.8	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	-11.1	-0.1	0.0	13.5	14.8	14.8	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	12.5	0.1	0.0	19.6	-14.8	-12.6	5.45*	6.19	5.45*	5.45*
2325	2	1.06	0.08	13.3	0.0	0.0	19.7	4.0	13.1	5.45*	6.51	5.89*	5.89*
2325	3	1.06	0.32	13.4	0.0	0.0	13.6	1.7	-13.1	5.45*	6.07	5.89*	5.89*
2325	4	0.28	0.32	12.3	0.0	0.1	13.6	-6.1	12.6	5.45*	5.67	5.45*	5.45*
2452	1	0.36	0.08	-1.6	0.2	0.2	149.3	25.0	-14.7	10.94	10.50	5.89*	5.89*
2452	2	1.35	0.08	19.0	-1.6	-3.4	149.1	-23.2	-15.7	5.89*	18.00	5.89*	5.89*
2452	3	1.35	0.32	20.2	-6.5	4.2	134.9	-26.4	15.7	5.89*	17.51	5.89*	5.89*
2452	4	0.36	0.32	-2.3	0.0	-0.4	135.0	25.0	14.8	10.26	9.09	5.89*	5.89*
2453	1	0.32	0.08	-24.3	-0.2	0.1	150.4	9.8	-10.8	20.25	5.89*	5.89*	5.89*
2453	2	1.19	0.08	-14.1	0.6	1.0	150.2	-19.7	24.7	16.06	5.89*	5.89*	5.89*
2453	3	1.19	0.32	-13.4	0.5	-0.6	136.1	-18.7	-24.7	14.84	5.89*	5.89*	5.89*
153	4	0.32	0.32	-24.7	-0.3	-0.2	136.0	9.8	10.9	19.45	5.45*	5.89*	5.89*
154	1	0.28	0.08	29.7	0.1	-0.3	150.8	-7.5	-7.5	5.45*	22.42	5.45*	5.45*
2454	2	1.06	0.08	32.6	0.0	-0.1	150.9	8.3	10.3	5.45*	23.53	5.89*	5.89*
2454	3	1.06	0.32	32.7	0.0	-0.1	136.3	2.4	-10.3	5.45*	22.47	5.89*	5.89*
2454	4	0.28	0.32	29.4	0.0	0.5	136.3	-7.8	7.4	5.45*	21.23	5.45*	5.45*
2581	1	0.36	0.08	-2.3	0.0	0.0	16.9	34.9	-23.7	5.89*	5.89*	5.89*	5.89*
2581	2	1.35	0.08	4.0	-0.4	-0.9	17.1	-42.5	11.3	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	4.0	-0.4	0.9	12.8	-43.6	-11.3	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-2.3	0.0	0.0	13.3	34.9	23.6	5.45*	5.45*	5.89*	5.89*
2582	1	0.32	0.08	-8.8	-0.1	0.0	16.9	16.8	-17.2	5.45*	5.45*	5.89*	5.89*
2582	2	1.19	0.08	-5.7	0.1	0.2	17.0	-29.0	28.1	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-5.7	0.1	-0.2	13.8	-28.7	-28.2	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	-8.8	-0.1	0.0	14.1	16.8	17.2	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	10.3	0.0	-0.1	16.9	-12.2	-14.9	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	11.2	0.0	0.0	16.9	3.3	15.2	5.45*	5.48	5.89*	5.89*
2583	3	1.06	0.32	11.2	0.0	0.0	14.4	3.3	-15.2	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	10.3	0.0	0.1	14.4	-12.3	14.9	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-0.9	0.1	-0.1	19.0	27.5	-18.8	5.89*	5.89*	5.89*	5.89*
2962	2	1.35	0.08	4.3	-1.9	-0.6	20.1	-34.3	8.8	5.45*	5.45*	5.45*	5.45*
962	3	1.35	0.32	5.7	0.2	1.4	9.9	-33.6	-9.1	5.45*	5.45*	5.45*	5.45*
162	4	0.36	0.32	-1.8	-0.1	-0.2	11.2	27.5	18.5	5.89*	5.89*	5.89*	5.89*
2963	1	0.32	0.08	-7.6	0.0	0.0	17.8	13.2	-13.7	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-5.1	0.2	0.4	18.4	-22.6	22.1	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-4.4	0.1	0.0	12.5	-22.8	-22.3	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-8.1	-0.1	-0.1	13.3	13.2	13.5	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	9.5	0.1	-0.1	17.5	-9.7	-11.7	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	10.2	0.0	0.0	17.2	2.6	12.0	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	10.2	0.0	0.0	14.2	2.6	-11.9	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	9.1	0.0	0.2	13.9	-9.6	11.8	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.6	0.1	0.0	14.3	15.2	-10.1	5.45*	5.45*	5.89*	5.89*
2965	2	1.35	0.08	3.0	-0.5	-0.7	14.9	-14.1	1.4	5.45*	5.45*	5.45*	5.45*
2965	3	1.35	0.32	3.4	-0.2	0.9	12.1	-21.8	-1.6	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	-2.9	0.0	-0.1	12.9	15.4	9.9	5.45*	5.45*	5.89*	5.89*
2966	1	0.32	0.08	-8.9	0.0	0.0	13.5	7.1	-7.4	5.45*	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-6.1	0.1	0.2	14.1	-13.5	12.9	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	-5.9	0.1	-0.1	13.8	-11.3	-13.1	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	-9.0	-0.1	0.0	14.5	7.0	7.2	5.45*	5.45*	5.89*	5.89*
2967	1	0.28	0.08	10.4	0.0	-0.1	13.4	-4.9	-6.0	5.45*	5.45*	5.45*	5.45*
2967	2	1.06	0.08	11.2	0.0	0.0	13.4	1.4	6.6	5.45*	5.45*	5.89*	5.89*
2967	3	1.06	0.32	11.2	0.0	0.0	14.9	1.5	-6.6	5.45*	5.45*	5.89*	5.89*
2967	4	0.28	0.32	10.3	0.0	0.1	14.9	-5.5	6.0	5.45*	5.45*	5.45*	5.45*
2968	1	0.36	0.08	-3.5	0.1	0.0	13.3	31.4	-21.5	5.45*	5.45*	5.89*	5.89*
2968	2	1.35	0.08	2.0	-0.5	-0.5	13.8	-35.1	10.9	5.89*	5.89*	5.89*	5.89*
2968	3	1.35	0.32	2.2	-0.3	0.7	9.0	-42.9	-11.0	5.45*	5.45*	5.45*	5.45*
2968	4	0.36	0.32	-3.7	0.0	0.0	9.8	31.6	21.3	5.45*	5.45*	5.89*	5.89*
2969	1	0.32	0.08	-9.6	0.0	0.0	12.5	15.3	-15.7	5.45*	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-6.8	0.0	0.2	13.1	-27.1	25.1	5.45*	5.45*	5.45*	5.45*
2969	3	1.19	0.32	-6.7	0.0	-0.2	10.7	-24.9	-25.3	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	-9.6	0.0	0.0	11.4	15.2	15.5	5.45*	5.45*	5.89*	5.89*
2970	1	0.28	0.08	10.9	0.1	0.0	12.3	-10.8	-13.5	5.45*	5.45*	5.45*	5.45*
2970	2	1.06	0.08	11.7	0.0	0.0	12.3	2.9	13.7	5.45*	5.45*	5.89*	5.89*
2970	3	1.06	0.32	11.8	0.0	0.0	11.9	3.1	-13.7	5.45*	5.45*	5.89*	5.89*
2970	4	0.28	0.32	10.9	0.0	0.0	11.8	-11.4	13.5	5.45*	5.45*	5.45*	5.45*
3097	1	0.36	0.08	-3.3	0.0	0.1	23.8	28.7	-19.3	5.89*	5.89*	5.89*	5.89*
3097	2	1.35	0.08	3.9	-0.4	-0.9	24.2	-34.5	6.7	5.89*	5.89*	5.89*	5.89*
3097	3	1.35	0.32	3.8	-0.5	0.9	22.3	-35.1	-6.8	5.45*	5.45*	5.45*	5.45*
3097	4	0.36	0.32	-3.2	0.1	0.0	23.0	28.8	19.2	5.89*	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-10.8	-0.1	0.0	23.2	13.6	-14.1	5.79	5.45*	5.89*	5.89*
3098	2	1.19	0.08	-7.1	0.1	0.2	23.7	-23.6	23.6	5.45*	5.45*	5.45*	5.45*
098	3	1.19	0.32	-7.2	0.1	-0.2	23.8	-23.5	-23.7	5.45*	5.45*	5.45*	5.45*
3098	4	0.32	0.32	-10.8	-0.1	0.0	24.4	13.6	13.9	5.36	5.45*	5.89*	5.89*
3099	1	0.28	0.08	12.4	0.0	-0.1	23.1	-9.9	-11.9	5.45*	5.40	5.45*	5.45*
3099	2	1.06	0.08	13.4	0.0	0.0	23.1	2.7	12.5	5.45*	6.79	5.89*	5.89*
3099	3	1.06	0.32	13.4	0.0	0.0	24.9	2.7	-12.4	5.45*	6.92	5.89*	5.89*
3099	4	0.28	0.32	12.4	0.1	0.1	24.8	-10.0	11.9	5.45*	6.53	5.45*	5.45*
3226	1	0.36	0.08	-3.5	0.0	0.1	-1.6	28.7	-19.7	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	1.6	0.0	-0.6	-1.3	-35.7	10.9	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	0.9	-0.7	0.2	3.6	-36.0	-11.0	5.45*	5.45*	5.45*	5.45*
3226	4	0.36	0.32	-3.1	0.1	0.1	4.2	28.7	19.6	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	-8.1	0.0	0.0	-2.0	13.9	-14.3	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-5.5	0.0	0.0	-1.6	-23.8	22.8	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	-5.9	0.0	-0.3	4.7	-23.8	-22.9	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	-7.9	0.0	0.1	5.2	13.9	14.2	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	8.9	0.0	-0.1	-2.0	-10.1	-12.4	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	9.7	0.0	0.0	-2.1	2.7	12.6	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	9.6	0.0	0.1	5.5	2.7	-12.6	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	9.1	0.1	0.0	5.5	-10.2	12.5	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	-3.9	-0.1	0.0	-34.7	24.6	-17.2	5.45*	5.45*	5.89*	5.89*
355	2	1.35	0.08	-3.5	0.1	0.4	-34.5	-32.5	13.5	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	-3.6	0.1	-0.5	-36.7	-31.1	-13.6	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.8	-0.1	0.0	-36.2	24.6	17.1	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	-4.1	0.0	0.0	-35.1	12.3	-12.5	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-3.9	-0.1	-0.1	-34.9	-20.4	18.7	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-4.0	-0.1	0.1	-35.8	-20.8	-18.8	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	-4.0	0.0	0.0	-35.5	12.4	12.4	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	4.1	0.0	0.0	-35.2	-9.0	-11.2	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	4.1	0.0	0.0	-35.2	2.4	10.8	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	4.1	0.0	0.0	-35.3	2.3	-10.8	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	4.1	0.0	0.0	-35.3	-8.8	11.3	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	1.4	0.2	0.1	-205.8	8.7	-16.9	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	1.8	2.0	3.3	-281.9	-371.9	34.6	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	2.7	2.2	3.4	-266.9	-368.9	16.9	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	2.4	0.3	0.2	-190.8	11.7	-34.6	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-3.0	0.2	0.9	-257.4	-5.9	-32.1	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-3.2	-1.0	-0.1	-236.4	99.3	26.6	2.72*	2.72*	3.64	3.49
3485	3	1.19	0.16	-3.5	-1.0	-0.1	-216.9	103.2	32.1	2.72*	2.72*	3.80	3.61
3485	4	0.32	0.16	-3.3	0.2	0.8	-237.9	-2.0	-26.6	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-6.6	-0.1	0.4	-246.0	4.8	-31.4	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-6.6	-0.1	0.0	-253.0	-29.8	33.4	2.72*	2.72*	2.72*	2.72*

3486	3	1.06	0.16	-6.7	-0.1	0.0	-228.9	-25.6	31.4	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-6.7	-0.1	0.4	-222.0	9.6	-33.4	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 2

hipo 2 p. propio (proceso hipo-2) (voladizo de 64.0) + pret. (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cn = 1.5 Cm = 1.5

ELEM	P.	X	Y	Mx	My	Mxy	Nx	Ny	Nxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	-1.4	0.1	0.6	186.9	10.8	-5.0	13.46	13.40	5.89*	5.89*
379	2	1.35	0.08	27.6	-0.7	-5.7	186.5	47.7	-29.2	5.89*	24.09	5.89*	5.89*
379	3	1.35	0.32	26.2	-2.1	4.7	201.7	-60.1	29.3	5.89*	24.54	5.89*	5.89*
379	4	0.36	0.32	-6.4	0.3	-0.3	201.6	13.0	5.0	14.08	14.94	5.89*	5.89*
380	1	0.32	0.08	-30.3	-0.4	0.3	188.9	3.1	-3.8	25.33	5.89*	5.89*	5.89*
380	2	1.19	0.08	-15.7	0.7	0.8	188.5	-23.1	15.9	19.39	7.20	5.89*	5.89*
380	3	1.19	0.32	-16.5	0.9	-1.3	202.4	7.5	-15.9	20.67	7.90	5.89*	5.89*
380	4	0.32	0.32	-29.8	-0.3	-0.2	202.2	2.6	3.9	26.04	5.89*	5.89*	5.89*
381	1	0.28	0.08	36.4	0.0	-0.7	189.6	1.8	-0.6	5.45*	27.81	5.89*	5.89*
381	2	1.06	0.08	40.6	0.0	0.1	189.7	-0.1	4.3	5.45*	29.43	5.45*	5.45*
381	3	1.06	0.32	40.5	-0.1	-0.1	202.4	2.3	-4.4	5.45*	30.33	5.89*	5.89*
381	4	0.28	0.32	36.8	0.1	0.5	202.5	-6.9	0.6	5.45*	28.93	5.45*	5.45*
382	1	0.36	0.08	-3.5	-0.1	0.3	30.1	9.4	-6.5	5.89*	5.89*	5.89*	5.89*
382	2	1.35	0.08	6.3	0.3	-1.7	29.7	42.6	-2.8	5.45*	5.45*	5.89*	5.89*
382	3	1.35	0.32	5.0	-0.9	0.9	39.4	-65.3	2.9	5.89*	5.89*	5.89*	5.89*
382	4	0.36	0.32	-2.6	0.1	0.0	39.4	11.6	6.6	5.89*	5.89*	5.89*	5.89*
383	1	0.32	0.08	-12.4	-0.2	0.1	31.3	5.0	-4.8	7.01	5.45*	5.89*	5.89*
383	2	1.19	0.08	-7.4	0.2	0.0	30.9	-23.6	9.7	5.45*	5.45*	5.45*	5.45*
383	3	1.19	0.32	-8.2	0.3	-0.4	39.4	7.1	-9.6	6.01	5.45*	5.89*	5.89*
383	4	0.32	0.32	-11.9	-0.1	-0.1	39.2	3.9	4.8	7.41	5.45*	5.89*	5.89*
384	1	0.28	0.08	14.0	-0.1	-0.2	31.6	0.9	-3.6	5.45*	7.65	5.89*	5.89*
384	2	1.06	0.08	15.5	0.0	0.1	31.8	-0.2	4.4	5.45*	8.23	5.45*	5.45*
384	3	1.06	0.32	15.4	0.0	-0.1	39.0	2.1	-4.4	5.45*	8.73	5.89*	5.89*
384	4	0.28	0.32	14.4	0.1	0.1	39.2	-7.7	3.6	5.45*	8.34	5.45*	5.45*
385	1	0.36	0.08	-4.4	-0.2	0.0	-71.8	11.4	-9.3	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-7.5	0.7	1.0	-72.2	23.7	15.0	5.45*	5.45*	5.89*	5.89*
385	3	1.35	0.32	-8.3	0.0	-1.5	-67.6	-59.6	-15.0	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	-2.9	-0.1	0.1	-67.7	13.1	9.3	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	-0.3	0.0	0.0	-71.2	7.3	-6.7	5.45*	5.45*	5.89*	5.89*
386	2	1.19	0.08	-1.9	-0.2	-0.4	-71.5	-22.6	7.8	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	-2.3	-0.1	0.2	-68.0	1.1	-7.7	5.45*	5.45*	5.45*	5.45*
386	4	0.32	0.32	-0.1	0.1	0.0	-68.3	6.5	6.8	5.45*	5.45*	5.89*	5.89*
387	1	0.28	0.08	-0.8	-0.1	0.1	-71.0	-1.5	-6.7	5.45*	5.45*	5.45*	5.45*
387	2	1.06	0.08	-1.2	0.0	0.0	-70.9	0.3	5.6	5.45*	5.45*	5.89*	5.89*
387	3	1.06	0.32	-1.2	0.0	0.0	-68.6	2.1	-5.6	5.45*	5.45*	5.89*	5.89*
387	4	0.28	0.32	-0.6	0.0	-0.1	-68.5	-0.2	6.7	5.45*	5.45*	5.45*	5.45*
514	1	0.36	0.08	-2.7	-0.1	-0.1	-84.5	16.4	-13.1	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-9.5	0.1	1.6	-84.6	17.8	21.0	5.45*	5.45*	5.89*	5.89*
514	3	1.35	0.32	-9.6	0.1	-1.6	-88.3	-67.1	-21.0	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	-3.6	-0.1	0.1	-88.1	10.1	13.1	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	-2.7	0.1	-0.1	-84.2	10.2	-9.4	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-0.3	-0.2	-0.2	-84.6	-27.2	11.0	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-0.3	-0.3	0.4	-88.4	-3.1	-10.9	5.45*	5.45*	5.45*	5.45*
515	4	0.32	0.32	2.8	0.1	0.1	-88.6	9.3	9.5	5.45*	5.45*	5.89*	5.89*

516	1	0.28	0.08	-4.2	0.0	0.2	-84.2	-3.4	-9.4	5.45*	5.45*	5.45*	5.45*	1160	3	1.19	0.32	-2.2	0.0	-0.3	-14.3	-25.7	-22.9	5.45*	5.45*	5.45*	5.45*
516	2	1.06	0.08	-5.1	0.0	0.0	-84.1	0.8	7.9	5.45*	5.45*	5.89*	5.89*	1160	4	0.32	0.32	-2.7	0.0	0.0	-14.7	15.1	15.2	5.45*	5.45*	5.89*	5.89*
516	3	1.06	0.32	-5.1	0.0	0.0	-88.9	2.6	-7.9	5.45*	5.45*	5.89*	5.89*	1161	1	0.28	0.08	3.1	0.0	-0.1	-25.0	-11.0	-13.8	5.45*	5.45*	5.45*	5.45*
516	4	0.28	0.32	-4.2	0.0	-0.2	-88.8	-10.2	9.4	5.45*	5.45*	5.45*	5.45*	1161	2	1.06	0.08	3.5	0.0	0.0	-24.9	2.9	13.3	5.45*	5.45*	5.89*	5.89*
643	1	0.36	0.08	-3.2	-0.1	-0.1	-72.1	18.9	-14.1	5.45*	5.45*	5.89*	5.89*	1161	3	1.06	0.32	3.4	0.0	0.0	-15.0	2.8	-13.3	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-7.7	0.2	1.3	-72.2	-26.3	19.9	5.45*	5.45*	5.45*	5.45*	1161	4	0.28	0.32	3.4	0.1	-0.1	-14.9	-10.8	13.7	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-7.6	0.3	-1.2	-75.2	-27.4	-19.9	5.45*	5.45*	5.45*	5.45*	1288	1	0.36	0.04	1.1	0.4	0.7	-289.9	-1.0	-6.2	2.72*	2.72*	2.72*	2.72*
643	4	0.36	0.32	-3.2	-0.1	0.1	-75.1	18.9	14.1	5.45*	5.45*	5.89*	5.89*	1288	2	1.35	0.04	1.4	1.9	-2.1	-284.6	25.1	4.9	2.72*	2.72*	2.94*	2.94*
644	1	0.32	0.08	1.6	0.1	-0.1	-71.7	10.4	-10.1	5.45*	5.45*	5.89*	5.89*	1288	3	1.35	0.16	0.6	1.7	-2.1	-281.4	25.8	6.1	2.72*	2.72*	2.94*	2.94*
644	2	1.19	0.08	-0.7	-0.2	-0.2	-72.1	-16.6	12.7	5.45*	5.45*	5.45*	5.45*	1288	4	0.36	0.16	0.3	0.2	0.8	-286.6	-0.3	-4.9	2.72*	2.72*	2.72*	2.72*
644	3	1.19	0.32	-0.7	-0.2	0.3	-75.2	-16.3	-12.6	5.45*	5.45*	5.45*	5.45*	1289	1	0.32	0.04	-5.7	0.2	-0.1	-287.9	-0.1	-5.6	2.72*	2.72*	2.72*	2.72*
644	4	0.32	0.32	1.6	0.1	0.0	-75.5	10.9	10.2	5.45*	5.45*	5.89*	5.89*	1289	2	1.19	0.04	-6.0	-1.1	0.9	-289.4	-7.9	6.0	2.72*	2.72*	2.72*	2.72*
645	1	0.28	0.08	-2.7	0.0	0.1	-71.7	-7.3	-9.9	5.45*	5.45*	5.45*	5.45*	1289	3	1.19	0.16	-5.8	-1.0	0.3	-285.5	-6.7	5.6	2.72*	2.72*	2.72*	2.72*
645	2	1.06	0.08	-3.4	0.0	0.0	-71.5	1.8	8.6	5.45*	5.45*	5.89*	5.89*	1289	4	0.32	0.16	-5.6	0.2	-0.1	-284.0	0.7	-6.0	2.72*	2.72*	2.72*	2.72*
645	3	1.06	0.32	-3.4	0.0	0.0	-75.9	1.8	-8.6	5.45*	5.45*	5.89*	5.89*	1290	1	0.28	0.04	-10.2	-0.1	0.0	-289.8	-1.0	-6.7	2.72*	2.72*	2.72*	2.72*
645	4	0.28	0.32	-2.7	0.0	-0.1	-75.7	-7.4	9.9	5.45*	5.45*	5.45*	5.45*	1290	2	1.06	0.04	-10.2	-0.2	-0.1	-289.3	1.4	6.5	2.72*	2.72*	2.72*	2.72*
772	1	0.36	0.08	-2.9	0.0	-0.1	-57.6	17.2	-12.7	5.45*	5.45*	5.89*	5.89*	1290	3	1.06	0.16	-10.3	-0.2	-0.1	-284.5	2.4	6.6	2.72*	2.72*	2.94*	2.94*
772	2	1.35	0.08	-5.8	0.1	1.0	-57.8	-23.4	16.6	5.45*	5.45*	5.45*	5.45*	1290	4	0.28	0.16	-10.2	-0.1	0.0	-284.9	0.0	-6.5	2.72*	2.72*	2.72*	2.72*
772	3	1.35	0.32	-5.6	0.3	-0.8	-61.0	-24.8	-16.5	5.45*	5.45*	5.45*	5.45*	291	1	0.36	0.08	1.8	0.3	0.7	348.8	28.7	-14.4	25.38	24.78	5.89*	5.89*
772	4	0.36	0.32	-3.0	-0.1	0.1	-60.9	17.7	12.7	5.45*	5.45*	5.89*	5.89*	1291	2	1.35	0.08	48.3	-2.4	-9.1	348.5	-21.2	-44.9	5.89*	43.65	5.89*	5.89*
773	1	0.32	0.08	0.1	0.1	0.1	-57.2	9.3	-9.1	5.45*	5.45*	5.89*	5.89*	1291	3	1.35	0.32	48.1	-2.5	9.0	350.8	-21.4	45.0	5.89*	43.75	5.89*	5.89*
773	2	1.19	0.08	-1.4	-0.1	-0.1	-57.6	-15.1	11.8	5.45*	5.45*	5.45*	5.45*	1291	4	0.36	0.32	1.9	0.3	-0.7	350.8	28.7	14.4	25.49	24.96	5.89*	5.89*
773	3	1.19	0.32	-1.3	-0.2	0.2	-60.9	-14.7	-11.8	5.45*	5.45*	5.45*	5.45*	1292	1	0.32	0.08	-46.9	-0.6	0.4	351.2	8.6	-10.7	43.26	5.89*	5.89*	5.89*
773	4	0.32	0.32	0.0	0.0	0.0	-61.2	9.3	9.2	5.45*	5.45*	5.89*	5.89*	1292	2	1.19	0.08	-23.6	1.4	1.8	350.9	-20.3	33.5	33.78	15.92	5.89*	5.89*
774	1	0.28	0.08	-0.7	0.0	0.1	-57.1	-6.5	-8.8	5.45*	5.45*	5.45*	5.45*	1292	3	1.19	0.32	-23.7	1.4	-1.9	352.6	-20.4	-33.5	33.93	16.01	5.89*	5.89*
774	2	1.06	0.08	-1.2	0.0	0.0	-56.9	1.6	7.8	5.45*	5.45*	5.89*	5.89*	1292	4	0.32	0.32	-46.8	-0.6	-0.4	352.4	8.6	10.8	43.32	5.89*	5.89*	5.89*
774	3	1.06	0.32	-1.2	0.0	0.0	-61.5	1.7	-7.8	5.45*	5.45*	5.89*	5.89*	1293	1	0.28	0.08	57.7	0.1	-1.0	352.2	-7.4	-4.8	5.89*	47.74	5.89*	5.89*
774	4	0.28	0.32	-0.8	0.0	-0.1	-61.4	-6.6	8.8	5.45*	5.45*	5.45*	5.45*	1293	2	1.06	0.08	64.5	-0.1	0.2	352.3	2.7	11.2	5.45*	50.52	5.89*	5.89*
901	1	0.36	0.08	-2.4	0.0	0.0	-29.4	14.9	-10.7	5.45*	5.45*	5.89*	5.89*	1293	3	1.06	0.32	64.5	-0.1	-0.2	353.1	2.7	-11.2	5.45*	50.57	5.89*	5.89*
901	2	1.35	0.08	-2.0	-0.1	0.3	-29.6	-19.0	11.1	5.45*	5.45*	5.45*	5.45*	1293	4	0.28	0.32	57.8	0.1	1.0	353.2	-7.4	4.8	5.89*	47.82	5.89*	5.89*
901	3	1.35	0.32	-1.8	0.0	-0.1	-33.9	-21.1	-11.1	5.45*	5.45*	5.45*	5.45*	1672	1	0.36	0.08	-2.6	-0.1	0.0	-21.8	31.9	-22.1	5.45*	5.45*	5.89*	5.89*
901	4	0.36	0.32	-2.5	0.0	0.0	-33.8	14.9	10.7	5.45*	5.45*	5.89*	5.89*	1672	2	1.35	0.08	0.0	0.1	-0.3	-21.9	-44.3	16.4	5.45*	5.45*	5.45*	5.45*
902	1	0.32	0.08	-2.9	0.0	0.0	-28.9	7.8	-7.7	5.45*	5.45*	5.89*	5.89*	1672	3	1.35	0.32	-0.4	-0.4	0.0	-16.2	-37.3	-16.4	5.45*	5.45*	5.45*	5.45*
902	2	1.19	0.08	-2.7	0.0	0.0	-29.3	-13.0	10.9	5.45*	5.45*	5.45*	5.45*	1672	4	0.36	0.32	-2.3	0.0	0.0	-16.0	31.8	22.1	5.45*	5.45*	5.89*	5.89*
902	3	1.19	0.32	-2.6	-0.1	0.1	-33.7	-12.4	-10.8	5.45*	5.45*	5.45*	5.45*	1673	1	0.32	0.08	-4.8	0.0	0.0	-21.6	15.8	-16.1	5.45*	5.45*	5.89*	5.89*
902	4	0.32	0.32	-2.9	0.0	0.0	-34.0	7.7	7.8	5.45*	5.45*	5.89*	5.89*	1673	2	1.19	0.08	-3.5	-0.1	0.0	-21.6	-25.6	24.5	5.45*	5.45*	5.45*	5.45*
903	1	0.28	0.08	3.0	0.0	0.1	-28.7	-5.5	-7.2	5.45*	5.45*	5.45*	5.45*	1673	3	1.19	0.32	-3.7	0.0	-0.1	-15.8	-27.6	-24.5	5.45*	5.45*	5.45*	5.45*
903	2	1.06	0.08	3.0	0.0	0.0	-28.5	1.4	6.6	5.45*	5.45*	5.89*	5.89*	1673	4	0.32	0.32	-4.7	0.0	0.0	-15.7	15.9	16.1	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	3.0	0.0	0.0	-34.2	1.5	-6.7	5.45*	5.45*	5.89*	5.89*	1674	1	0.28	0.08	5.2	0.0	0.0	-21.5	-11.8	-14.4	5.45*	5.45*	5.45*	5.45*
903	4	0.28	0.32	2.9	0.0	0.0	-34.1	-5.6	7.2	5.45*	5.45*	5.45*	5.45*	1674	2	1.06	0.08	5.6	0.0	0.0	-21.5	3.1	14.0	5.45*	5.45*	5.89*	5.89*
1030	1	0.36	0.08	-1.5	0.0	0.0	2.3	16.7	-11.4	5.45*	5.45*	5.89*	5.89*	1674	3	1.06	0.32	5.6	0.0	0.0	-15.6	3.0	-14.0	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.0	-0.3	-0.7	2.1	-21.2	6.3	5.45*	5.45*	5.45*	5.45*	1674	4	0.28	0.32	5.3	0.0	0.0	-15.7	-11.2	14.4	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	3.0	-0.3	0.7	-0.5	-20.3	-6.3	5.45*	5.45*	5.45*	5.45*	1675	1	0.36	0.08	-2.7	-0.1	0.0	-48.2	12.2	-8.8	5.45*	5.45*	5.89*	5.89*
1030	4	0.36	0.32	-1.5	0.0	0.0	-0.4	16.6	11.4	5.45*	5.45*	5.89*	5.89*	1675	2	1.35	0.08	-3.6	0.2	0.5	-48.3	-20.1	10.8	5.45*	5.45*	5.45*	5.45*
1031	1	0.32	0.08	-6.0	-0.1	0.0	3.1	8.1	-8.2	5.45*	5.45*	5.89*	5.89*	1675	3	1.35	0.32	-3.8	0.0	-0.6	-45.5	-13.2	-10.8	5.45*	5.45*	5.45*	5.45*
1031	2	1.19	0.08	-3.8	0.1	0.2	2.6	-13.7	13.3	5.45*	5.45*	5.45*	5.45*	1675	4	0.36	0.32	-2.6	-0.1	0.0	-45.3	12.0	8.8	5.45*	5.45*	5.89*	5.89*
1031	3	1.19	0.32	-3.8	0.1	-0.1	-0.2	-13.9	-13.2	5.45*	5.45*	5.45*	5.45*	1676	1	0.32	0.08	-4.5	0.0	0.0	-48.0	6.4	-6.4	5.45*	5.45*	5.89*	5.89*
1031	4	0.32	0.32	-6.0	-0.1	0.0	-0.6	8.1	8.3	5.45*	5.45*	5.89*	5.89*	1676	2	1.19	0.08	-4.7	-0.1	-0.2	-48.1	-9.4	8.4	5.45*	5.45*	5.45*	5.45*
1032	1	0.28	0.08	6.9	0.0	-0.1	3.3	-5.9	-7.2	5.45*	5.45*	5.45*	5.45*	1676	3	1.19	0.32	-4.6	-0.1	0.1	-45.3	-11.4	-8.4	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	7.5	0.0	0.0	3.5	1.6	7.3	5.45*	5.45*	5.89*	5.89*	1676	4	0.32	0.32	-4.4	0.0	0.0	-45.2	6.5	6.4	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	7.5	0.0	0.0	-0.7	1.6	-7.3	5.45*	5.45*	5.89*	5.89*	1677	1	0.28	0.08	-1.1	0.0	0.0	-48.0	-4.8	-6.1	5.45*	5.45*	5.45*	5.45*
1032	4	0.28	0.32	7.0	0.0	0.1	-0.6	-5.8	7.2	5.45*	5.45*	5.45*	5.45*	1677	2	1.06	0.08	-1.0	0.0	0.0	-48.0	1.2	5.4	5.45*	5.45*	5.89*	5.89*
1159	1	0.36	0.08	-1.4	-0.1	0.1	-26.3	30.1	-21.0	5.45*	5.45*	5.89*	5.89*	1677	3	1.06	0.32	-1.0	0.0	0.0	-45.2	1.1	-5.4	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	1.5	0.3	-0.6	-26.5	-40.4	16.5	5.45*	5.45*	5.45*	5.45*	1677	4	0.28	0.32	-1.2	0.0	-0.1	-45.2	-4.3	6.1	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	0.4	-0.7	-0.1	-14.2	-37.3	-16.5	5.45*	5.45*	5.45*	5.45*	1678	1	0.36	0.08	-8.3	-0.1	-0.1	-79.5	15.2	-11.6	5.45*	5.45*	5.89*	5.89*
1159	4	0.36	0.32	-0.7	0.1	0.1	-14.2	30.1	21.0	5.45*	5.45*	5.89*	5.89*	1678	2	1.35	0.08	-8.2	0.4	1.3	-79.6	-20.0	19.1	5.45*	5.45*	5.45*	5.45*
1160	1	0.32	0.08	-3.0	-0.1	0.0	-25.4	15.1	-15.2	5.45*	5.45*	5.89*	5.89*	1678	3	1.35	0.32	-8.4	0.2	-1.4	-77.4	-24.8	-19.1	5.45*	5.45*	5.45*	5.45*
1160	2	1.19	0.08	-1.7	-0.1	-0.1	-25.9	-24.8	23.0	5.45*	5.45*	5.45*	5.45*	1678	4	0.36	0.32	-7.2	-0.1	0.1	-77.2	15.2	11.6	5.45*	5.45*	5.89*	5.89*

1679	1	0.32	0.08	2.1	0.1	0.0	-79.4	8.7	-8.4	5.45*	5.45*	5.89*	5.89*
1679	2	1.19	0.08	-0.4	-0.2	-0.3	-79.5	-14.1	9.6	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	-0.5	-0.2	-0.3	-77.5	-12.8	-9.6	5.45*	5.45*	5.45*	5.45*
1679	4	0.32	0.32	2.1	0.1	0.1	-77.5	8.6	8.4	5.45*	5.45*	5.89*	5.89*
1680	1	0.28	0.08	-3.4	0.0	0.1	-79.5	-5.8	-8.4	5.45*	5.45*	5.45*	5.45*
1680	2	1.06	0.08	-4.1	0.0	0.0	-79.4	1.4	7.0	5.45*	5.45*	5.89*	5.89*
1680	3	1.06	0.32	-4.1	0.0	0.0	-77.5	1.5	-7.0	5.45*	5.45*	5.89*	5.89*
1680	4	0.28	0.32	-3.3	0.0	-0.2	-77.5	-6.2	8.4	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	-3.4	-0.1	-0.1	-86.9	13.5	-10.4	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-9.5	0.4	1.6	-87.0	-21.1	18.7	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-9.3	0.6	-1.5	-86.5	-19.4	-18.7	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	-3.5	-0.1	0.1	-96.3	13.9	10.4	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	3.0	0.1	0.0	-86.9	7.8	-7.5	5.45*	5.45*	5.89*	5.89*
1808	2	1.19	0.08	-0.1	-0.2	-0.4	-87.0	-11.7	8.1	5.45*	5.45*	5.45*	5.45*
1808	3	1.19	0.32	0.0	-0.2	0.4	-86.5	-12.2	-8.1	5.45*	5.45*	5.45*	5.45*
1808	4	0.32	0.32	2.9	0.1	0.0	-86.5	7.8	7.5	5.45*	5.45*	5.89*	5.89*
1809	1	0.28	0.08	-4.4	0.0	0.1	-87.0	-5.5	-7.7	5.45*	5.45*	5.45*	5.45*
809	2	1.06	0.08	-5.3	0.0	0.0	-87.0	1.3	6.2	5.45*	5.45*	5.89*	5.89*
809	3	1.06	0.32	-5.3	0.0	0.0	-86.5	1.3	-6.2	5.45*	5.45*	5.89*	5.89*
1809	4	0.28	0.32	-4.4	0.0	-0.1	-86.5	-5.3	7.7	5.45*	5.45*	5.45*	5.45*
1936	1	0.36	0.08	-3.1	-0.1	-0.1	-62.0	19.5	-13.7	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-6.3	0.2	1.0	-62.2	-68.4	17.5	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-6.1	0.3	-0.9	-60.9	16.5	-17.5	5.45*	5.45*	5.89*	5.89*
1936	4	0.36	0.32	-3.3	-0.1	0.0	-60.8	17.8	13.7	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	0.0	0.0	0.0	-62.0	9.6	-9.9	5.45*	5.45*	5.89*	5.89*
1937	2	1.19	0.08	-1.6	-0.1	-0.2	-62.1	-4.0	12.9	5.45*	5.45*	5.45*	5.45*
1937	3	1.19	0.32	-1.4	-0.1	0.3	-60.8	-28.2	-12.9	5.45*	5.45*	5.45*	5.45*
37	4	0.32	0.32	-0.1	0.0	0.0	-60.8	10.5	9.9	5.45*	5.45*	5.89*	5.89*
1938	1	0.28	0.08	-0.7	0.0	0.1	-61.9	-10.5	-9.5	5.45*	5.45*	5.45*	5.45*
1938	2	1.06	0.08	-1.2	0.0	0.0	-61.9	2.7	8.4	5.45*	5.45*	5.89*	5.89*
1938	3	1.06	0.32	-1.2	0.0	0.0	-60.8	0.9	-8.4	5.45*	5.45*	5.89*	5.89*
1938	4	0.28	0.32	-0.8	0.0	-0.1	-60.8	-3.7	9.5	5.45*	5.45*	5.45*	5.45*
2065	1	0.36	0.08	-3.3	-0.1	-0.1	-45.5	19.6	-13.5	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-4.7	0.0	0.7	-45.7	-67.8	14.6	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-4.3	0.3	-0.5	-44.0	17.0	-14.5	5.45*	5.45*	5.89*	5.89*
2065	4	0.36	0.32	-3.6	-0.1	0.0	-43.8	18.0	13.5	5.45*	5.45*	5.89*	5.89*
66	1	0.32	0.08	-2.3	0.0	0.0	-45.4	9.4	-9.8	5.45*	5.45*	5.89*	5.89*
66	2	1.19	0.08	-3.0	-0.1	-0.1	-45.5	-4.0	13.6	5.45*	5.45*	5.45*	5.45*
2066	3	1.19	0.32	-2.7	-0.1	0.2	-43.8	-28.1	-13.5	5.45*	5.45*	5.45*	5.45*
2066	4	0.32	0.32	-2.4	0.0	0.0	-43.8	10.2	9.8	5.45*	5.45*	5.89*	5.89*
2067	1	0.28	0.08	2.1	0.0	0.1	-45.3	-10.4	-9.2	5.45*	5.45*	5.45*	5.45*
2067	2	1.06	0.08	1.9	0.0	0.0	-45.3	2.7	8.4	5.45*	5.45*	5.89*	5.89*
2067	3	1.06	0.32	1.9	0.0	0.0	-43.8	0.9	-8.4	5.45*	5.45*	5.89*	5.89*
2067	4	0.28	0.32	2.0	0.0	-0.1	-43.8	-3.6	9.2	5.45*	5.45*	5.45*	5.45*
2194	1	0.36	0.08	-3.9	0.0	-0.1	-23.2	19.9	-13.2	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-2.8	-0.3	0.4	-23.3	-79.2	10.6	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-2.2	0.3	0.0	-22.7	30.4	-10.6	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	-4.3	-0.1	-0.1	-22.6	17.8	13.2	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	-5.6	0.0	0.0	-22.9	9.0	-9.6	5.45*	5.45*	5.89*	5.89*
2195	2	1.19	0.08	-5.1	0.0	0.0	-23.1	-0.2	14.4	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	-4.8	-0.1	0.1	-22.4	-31.4	-14.3	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	-5.9	0.0	0.0	-22.4	10.0	9.6	5.45*	5.45*	5.89*	5.89*
2196	1	0.28	0.08	6.2	0.0	0.0	-22.8	-11.2	-8.7	5.45*	5.45*	5.45*	5.45*
2196	2	1.06	0.08	6.3	0.0	0.0	-22.8	3.0	8.3	5.45*	5.45*	5.89*	5.89*
2196	3	1.06	0.32	6.3	0.0	0.0	-22.4	0.6	-8.3	5.45*	5.45*	5.89*	5.89*
)	4	0.28	0.32	6.0	0.0	0.0	-22.4	-2.4	8.6	5.45*	5.45*	5.45*	5.45*
2323	1	0.36	0.08	-4.0	0.1	0.1	57.4	20.0	-11.9	5.89*	5.89*	5.89*	5.89*
2323	2	1.35	0.08	6.1	-0.9	-1.2	57.2	-75.2	-3.4	5.89*	6.44	5.89*	5.89*
2323	3	1.35	0.32	7.0	-0.2	1.8	47.9	33.4	3.4	5.89*	6.14	5.89*	5.89*
2323	4	0.36	0.32	-4.6	0.0	-0.2	48.0	17.8	11.9	5.89*	5.89*	5.89*	5.89*
2324	1	0.32	0.08	-15.4	-0.1	0.1	58.1	7.7	-8.7	10.13	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-10.4	0.3	0.5	57.9	0.4	17.1	6.22	5.45*	5.45*	5.45*
2324	3	1.19	0.32	-9.9	0.2	-0.2	48.5	-30.5	-17.0	7.35	5.45*	5.45*	5.45*
2324	4	0.32	0.32	-15.8	-0.1	-0.1	48.5	8.7	8.8	9.54	5.45*	5.89*	5.89*
2325	1	0.28	0.08	18.2	0.1	-0.1	58.4	-10.5	-6.8	5.45*	11.21	5.45*	5.45*
2325	2	1.06	0.08	19.6	0.0	0.0	58.5	3.0	8.0	5.45*	11.76	5.89*	5.89*
2325	3	1.06	0.32	19.7	0.0	0.0	48.6	0.6	-8.0	5.45*	11.06	5.89*	5.89*
2325	4	0.28	0.32	18.0	0.0	0.2	48.6	-1.8	6.8	5.45*	10.41	5.45*	5.45*
2452	1	0.36	0.08	-0.5	0.3	0.4	226.3	16.4	-7.7	15.82	16.76	5.89*	5.89*
2452	2	1.35	0.08	29.2	-2.1	-5.3	226.1	-9.2	-31.4	5.89*	27.47	5.89*	5.89*
2452	3	1.35	0.32	30.4	-1.0	6.1	210.1	-12.5	31.4	5.89*	26.83	5.89*	5.89*
2452	4	0.36	0.32	-1.2	0.1	-0.6	210.1	16.4	7.7	14.99	15.22	5.89*	5.89*
2453	1	0.32	0.08	-32.8	-0.4	0.2	227.8	4.4	-5.8	23.02	5.89*	5.89*	5.89*
2453	2	1.19	0.08	-17.9	0.9	1.4	227.5	-11.8	20.2	22.97	9.16	5.89*	5.89*
2453	3	1.19	0.32	-17.3	0.8	-0.9	211.6	-10.8	-20.2	21.63	8.22	5.89*	5.89*
2453	4	0.32	0.32	-33.2	-0.4	-0.3	211.5	4.4	5.8	28.06	5.89*	5.89*	5.89*
154	1	0.28	0.08	40.3	0.1	-0.6	228.4	-3.8	-2.0	5.45*	32.20	5.45*	5.45*
2454	2	1.06	0.08	44.6	-0.1	0.1	228.5	1.5	6.2	5.45*	33.79	5.89*	5.89*
2454	3	1.06	0.32	44.6	0.0	-0.1	212.6	1.6	-6.2	5.45*	32.59	5.89*	5.89*
2454	4	0.28	0.32	40.0	0.0	0.2	212.0	-4.1	2.0	5.45*	30.86	5.45*	5.45*
2581	1	0.36	0.08	-2.3	0.0	0.1	14.5	36.8	-25.0	5.89*	5.89*	5.89*	5.89*
2581	2	1.35	0.08	4.1	-0.3	-0.9	14.6	-45.3	12.4	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	3.9	-0.5	0.8	13.5	-45.9	-12.5	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-2.1	0.0	0.0	13.8	36.8	25.0	5.89*	5.89*	5.89*	5.89*
2582	1	0.32	0.08	-8.7	-0.1	0.0	14.7	17.8	-18.2	5.45*	5.45*	5.89*	5.89*
2582	2	1.19	0.08	-5.5	0.1	0.2	14.8	-30.5	29.6	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-5.6	0.1	-0.2	14.2	-30.4	-29.6	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	-8.6	-0.1	0.0	14.4	17.8	18.2	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	10.0	0.0	-0.1	14.8	-12.9	-15.8	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	10.9	0.0	0.0	14.3	3.5	16.1	5.45*	5.45*	5.89*	5.89*
2583	3	1.06	0.32	10.9	0.0	0.0	14.7	3.5	-16.1	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	10.1	0.1	0.1	14.6	-13.0	15.8	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-1.2	0.1	-0.1	6.3	26.4	-18.1	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	2.8	-0.8	-0.4	7.2	-33.3	10.0	5.45*	5.45*	5.45*	5.45*
2962	3	1.35	0.32	3.9	0.2	1.1	-0.3	-32.5	-10.2	5.45*	5.45*	5.45*	5.45*
162	4	0.36	0.32	-1.9	-0.1	-0.2	0.9	26.3	17.9	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	-6.5	0.0	0.0	5.2	12.8	-13.2	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-4.5	0.1	0.3	5.8	-21.8	20.9	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-3.9	0.0	0.0	1.9	-21.9	-21.1	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-6.9	-0.1	-0.1	2.6	12.8	13.0	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	7.9	0.1	0.0	5.0	-9.4	-11.4	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	8.5	0.0	0.0	4.8	2.5	11.6	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	8.5	0.0	0.0	3.4	2.5	-11.5	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	7.7	0.0	0.1	3.1	-9.3	11.5	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.0	0.1	0.0	3.3	15.9	-10.7	5.45*	5.45*	5.89*	5.89*
2965	2	1.35	0.08	1.5	-0.4	-0.4	3.7	-15.4	3.6	5.45*	5.45*	5.45*	5.45*
2965	3	1.35	0.32	-1.9	-0.1	0.6	0.5	-23.1	-3.7	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	-7.1	0.0	-0.1	1.2	16.0	10.6	5.45*	5.45*	5.89*	5.89*
2966	1	0.32	0.08	-7.6	0.0	0.0	2.6	7.6	-7.8	5.45*	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-5.5	0.1	0.2	3.1	-14.2	13.1	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	-5.3	0.1	-0.1	1.9	-12.0	-13.2	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	-7.8	-0.1	0.0	2.6	7.5	7.7	5.45*	5.45*	5.89*	5.89*
2967	1	0.28	0.08	-8.8	0.0	0.0	2.5	-5.2	-6.6	5.45*	5.45*	5.45*	5.45*
2967	2	1.06	0.08	9.4	0.0	0.0	2.5	1.4	6.9	5.45*	5.45*	5.89*	5.89*
2967	3	1.06	0.32	9.4	0.0	0.0	2.9	1.6	-6.9	5.45*	5.45*	5.89*	5.89*
2967	4	0.28	0.32	8.7	0.0	0.1	2.9	-5.8	6.6	5.45*	5.45*	5.45*	5.45*

2968	1	0.36	0.08	-3.5	0.1	0.0	10.0	32.0	-22.0	5.45*	5.45*	5.89*	5.89*
2968	2	1.35	0.08	-1.5	-0.5	-0.6	10.4	-36.0	11.7	5.89*	5.89*	5.89*	5.89*
2968	3	1.35	0.32	-1.8	-0.7	-0.6	5.3	-43.9	-11.9	5.45*	5.45*	5.45*	5.45*
2968	4	0.36	0.32	-3.7	0.0	0.0	0.0	32.2	21.8	5.45*	5.45*	5.89*	5.89*
2969	1	0.32	0.08	-9.1	0.0	0.0	9.3	15.6	-16.0	5.45*	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-6.6	0.0	0.2	9.8	-27.7	25.6	5.45*	5.45*	5.45*	5.45*
2969	3	1.19	0.32	-6.4	0.0	-0.1	6.7	-25.5	-25.7	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	-9.2	0.0	0.0	9.4	15.5	15.8	5.45*	5.45*	5.89*	5.89*
2970	1	0.28	0.08	10.4	0.1	0.0	9.2	-11.0	-13.9	5.45*	5.45*	5.45*	5.45*
2970	2	1.06	0.08	11.1	0.0	0.0	9.2	3.0	14.0	5.45*	5.45*	5.89*	5.89*
2970	3	1.06	0.32	11.2	0.0	0.0	7.9	3.1	-14.0	5.45*	5.45*	5.89*	5.89*
2970	4	0.28	0.32	10.3	0.0	0.0	7.7	-11.7	13.9	5.45*	5.45*	5.45*	5.45*
3097	1	0.36	0.08	-3.3	0.0	0.0	26.6	28.9	-19.4	5.89*	5.89*	5.89*	5.89*
3097	2	1.35	0.08	4.2	-0.5	-1.0	26.9	-34.6	6.3	5.89*	5.89*	5.89*	5.89*
3097	3	1.35	0.32	4.2	-0.5	-1.0	24.8	-35.3	-6.4	5.89*	5.89*	5.89*	5.89*
3097	4	0.36	0.32	-3.3	0.1	0.0	25.3	28.9	19.3	5.89*	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-11.1	-0.1	0.0	26.3	13.6	-14.1	6.13	5.45*	5.89*	5.89*
3098	2	1.19	0.08	-7.3	0.1	0.2	26.6	-23.8	23.8	5.45*	5.45*	5.45*	5.45*
3098	3	1.19	0.32	-7.3	0.1	-0.2	26.0	-23.6	-24.0	5.45*	5.45*	5.45*	5.45*
3098	4	0.32	0.32	-11.1	-0.1	0.0	26.6	13.6	14.0	6.15	5.45*	5.89*	5.89*
3099	1	0.28	0.08	12.8	0.0	-0.1	26.3	-10.0	-11.9	5.45*	6.79	5.45*	5.45*
3099	2	1.06	0.08	13.9	0.0	0.0	26.2	2.7	12.5	5.45*	7.19	5.89*	5.89*
3099	3	1.06	0.32	13.9	0.0	0.0	27.0	2.8	-12.5	5.45*	7.25	5.89*	5.89*
3099	4	0.28	0.32	12.8	0.0	0.1	26.9	-10.0	11.9	5.45*	6.83	5.45*	5.45*
3226	1	0.36	0.08	-3.4	0.0	0.1	9.0	28.7	-19.5	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	2.9	-0.1	-0.9	9.2	-35.2	9.2	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	2.2	-0.7	0.5	13.7	-35.6	-9.2	5.89*	5.89*	5.89*	5.89*
3226	4	0.36	0.32	-3.0	0.1	0.1	14.1	28.2	19.4	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	-9.3	-0.1	0.0	8.9	13.8	-14.2	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-6.2	0.0	0.1	9.2	-23.7	23.1	5.45*	5.95*	5.45*	5.45*
3227	3	1.19	0.32	-6.5	0.1	-0.3	14.5	-23.7	-23.2	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	-9.1	0.0	0.0	14.9	13.9	14.1	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	10.4	0.0	-0.1	8.9	-10.1	-12.2	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	11.4	0.0	0.0	8.9	2.7	12.5	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	11.3	0.0	0.0	15.3	2.7	-12.5	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	10.6	0.1	0.0	15.2	-10.1	12.2	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	-3.7	-0.1	0.0	-19.1	25.9	-17.8	5.45*	5.45*	5.89*	5.89*
3355	2	1.35	0.08	-1.2	0.1	0.0	-19.0	-33.4	11.5	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	-1.5	-0.1	-0.1	-20.1	-31.9	-11.5	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.5	0.0	0.0	-19.7	25.8	17.8	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	-5.8	0.0	0.0	-19.2	12.7	-13.0	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-4.6	0.0	-0.1	-19.1	-21.3	20.2	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-4.8	0.0	0.0	-19.4	-21.7	-20.2	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	-5.8	0.0	0.0	-19.1	12.7	12.9	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	6.2	0.0	0.0	-19.2	-9.3	-11.4	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	6.6	0.0	0.0	-19.3	2.5	11.3	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	6.6	0.0	0.0	-18.9	2.4	-11.3	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	6.3	0.0	0.0	-18.9	-9.2	11.5	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	1.5	0.1	0.2	-170.9	8.7	-16.8	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	1.8	1.8	1.0	-247.7	-375.1	34.7	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	2.6	1.9	1.1	-232.6	-372.1	16.8	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	2.3	0.3	0.2	-155.9	11.7	-34.7	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-2.0	0.2	0.9	-222.7	-6.0	-32.1	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-2.2	-0.8	-0.1	-201.5	100.2	26.5	2.72*	2.72*	3.63	3.57
3485	3	1.19	0.16	-2.5	-0.9	-0.1	-182.1	104.1	32.1	2.72*	2.72*	3.79	3.68
3485	4	0.32	0.16	-2.3	0.1	0.3	-203.3	-2.1	-26.5	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-5.0	-0.1	0.3	-211.2	4.9	-31.4	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-5.0	0.0	0.0	-218.2	-30.1	33.4	2.72*	2.72*	2.72*	2.72*
3486	3	1.06	0.16	-5.1	-0.1	0.0	-194.1	-25.3	31.4	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-5.1	-0.1	0.4	-187.1	-9.2	-33.4	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 3

hipo 3 p. propio (proceso hipo-3) + pret. (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cn = 1.5 Cn = 1.5

ELEM	P	X	Y	Nx	Ny	Nxy	Mx	My	Mxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	-1.7	0.1	0.4	142.8	32.4	-20.4	10.55	9.94	5.89*	5.89*
379	2	1.35	0.08	21.7	-0.7	-4.5	142.4	19.1	-13.3	5.89*	18.63	5.89*	5.89*
379	3	1.35	0.32	20.4	-1.8	3.6	154.8	-99.3	13.4	5.89*	18.97	5.89*	5.89*
379	4	0.36	0.32	-0.9	0.3	-0.2	154.8	34.5	20.5	11.04	11.21	5.89*	5.89*
380	1	0.32	0.08	-24.9	-0.3	0.2	144.5	14.3	-15.0	20.17	5.45*	5.89*	5.89*
380	2	1.19	0.08	-13.2	-0.5	0.7	144.2	-41.6	31.6	15.30	5.89*	5.89*	5.89*
380	3	1.19	0.32	-13.9	0.6	-1.1	155.3	-10.7	-31.5	16.35	5.89*	5.89*	5.89*
380	4	0.32	0.32	-24.5	-0.2	-0.1	155.2	13.3	15.0	20.65	5.89*	5.89*	5.89*
381	1	0.28	0.08	29.8	0.0	-0.5	145.1	-6.2	-11.0	5.45*	22.02	5.45*	5.45*
381	2	1.06	0.08	33.2	0.0	0.1	145.3	2.0	13.9	5.45*	23.33	5.89*	5.89*
381	3	1.06	0.32	33.1	-0.1	-0.1	155.3	4.3	-14.0	5.45*	24.04	5.89*	5.89*
381	4	0.28	0.32	30.1	0.1	0.4	155.4	-14.9	11.0	5.45*	22.91	5.45*	5.45*
382	1	0.36	0.08	-3.3	-0.1	0.2	17.2	29.1	-20.2	5.45*	5.45*	5.89*	5.89*
382	2	1.35	0.08	4.6	0.1	-1.3	16.8	17.7	7.2	5.45*	5.45*	5.89*	5.89*
382	3	1.35	0.32	3.5	-0.8	0.6	23.6	-90.8	-7.1	5.89*	5.89*	5.89*	5.89*
382	4	0.36	0.32	-2.6	0.1	0.0	23.5	31.2	20.2	5.89*	5.89*	5.89*	5.89*
383	1	0.32	0.08	-10.4	-0.1	0.1	18.3	14.8	-14.7	5.45*	5.45*	5.89*	5.89*
383	2	1.19	0.08	-6.4	0.1	0.0	17.9	-40.2	24.9	5.45*	5.45*	5.45*	5.45*
383	3	1.19	0.32	-7.0	0.1	-0.3	23.5	-9.3	-24.8	5.45*	5.45*	5.45*	5.45*
383	4	0.32	0.32	-10.0	-0.1	0.0	23.2	13.7	14.8	5.50	5.45*	5.89*	5.89*
384	1	0.28	0.08	11.7	0.0	-0.1	18.6	-6.1	-12.5	5.45*	5.80	5.45*	5.45*
384	2	1.06	0.08	12.9	0.0	0.0	18.8	1.7	13.0	5.45*	6.26	5.89*	5.89*
384	3	1.06	0.32	12.8	0.0	0.0	23.1	1.0	-13.1	5.45*	6.55	5.89*	5.89*
384	4	0.28	0.32	12.0	0.1	0.1	23.2	-14.8	12.5	5.45*	6.24	5.45*	5.45*
385	1	0.36	0.08	-3.7	-0.1	0.0	-58.6	29.4	-21.5	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-5.5	0.4	0.7	-59.1	2.0	20.5	5.45*	5.45*	5.45*	5.45*
385	3	1.35	0.32	-6.1	-0.1	-1.1	-55.4	-82.1	-20.4	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	-3.3	0.0	0.1	-55.6	31.1	21.5	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	-1.2	0.0	0.0	-57.9	16.0	-15.5	5.45*	5.45*	5.89*	5.89*
386	2	1.19	0.08	-2.0	-0.2	-0.3	-58.4	-37.6	22.4	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	-2.4	-0.1	0.1	-55.9	-13.7	-22.3	5.45*	5.45*	5.45*	5.45*
386	4	0.32	0.32	-0.9	0.1	0.0	-56.2	15.2	15.6	5.45*	5.45*	5.89*	5.89*
387	1	0.28	0.08	0.4	0.0	0.1	-57.7	-7.8	-14.4	5.45*	5.45*	5.45*	5.45*
387	2	1.06	0.08	0.2	0.0	0.0	-57.5	2.0	13.4	5.45*	5.45*	5.89*	5.89*
387	3	1.06	0.32	0.1	0.0	0.0	-56.6	3.8	-13.5	5.45*	5.45*	5.89*	5.89*
387	4	0.28	0.32	0.6	0.0	-0.1	-56.4	-14.5	14.3	5.45*	5.45*	5.45*	5.45*
514	1	0.36	0.08	-3.5	-0.1	-0.1	-85.2	30.3	-22.5	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-9.4	0.3	1.6	-85.3	0.0	26.0	5.45*	5.45*	5.45*	5.45*
514	3	1.35	0.32	-9.4	0.3	-1.6	-87.2	-84.8	-26.0	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	-3.4	-0.1	0.1	-87.1	31.9	22.5	5.45*	5.45*	5.89*	5.89*
5	1	0.32	0.08	2.8	0.1	-0.1	-84.3	16.9	-16.3	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-0.1	-0.3	-0.3	-85.2	-38.7	22.1	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-0.2	-0.3	0.3	-87.3	-14.5	-22.0	5.45*	5.45*	5.45*	5.45*
515	4	0.32	0.32	2.9	0.1	0.1	-87.6	16.0	16.4	5.45*	5.45*	5.89*	5.89*
516	1	0.28	0.08	-4.3	0.0	0.2	-84.7	-8.3	-15.4	5.45*	5.45*	5.45*	5.45*
516	2	1.06	0.08	-5.2	0.0	-0.1	-84.5	2.1	13.9	5.45*	5.45*	5.89*	5.89*
516	3	1.06	0.32	-5.2	0.0	0.0	-88.0	2.9	-13.9	5.45*	5.45*	5.89*	5.89*
516	4	0.28	0.32	-4.3	0.0	0.2	-87.9	-15.1	15.4	5.45*	5.45*	5.45*	5.45*
643	1	0.36	0.08	-3.2	-0.1	-0.1	-77.1	30.9	-22.3	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-8.3	0.2	1.4	-77.3	-41.2	25.2	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-8.2	0.3	-1.3	-79.8	-42.8	-25.2	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	-3.2	-0.1	0.1	-79.7	30.9	22.3	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	2.2	0.1	-0.1	-76.7	16.3	-16.1	5.45*	5.45*	5.89*	5.89*
644	2	1.19	0.08	-0.4	-0.3	-0.2	-77.2	-26.6	22.0	5.45*	5.45*	5.45*	5.45*
644	3	1.19	0.32	-0.4	-0.3	0.3	-79.9	-26.2	-21.9	5.45*	5.45*	5.45*	5.45*
644	4	0.32	0.32	2.1	0.1	0.1	-80.3	16.3	16.2	5.45*	5.45*	5.89*	5.89*
645	1	0.28	0.08	-3.4	0.0	0.2	-76.5	-11.5	-15.2	5.45*	5.45*	5.45*	5.45*
645	2	1.06	0.08	-4.1	0.0	0.0	-76.4	2.9	13.8	5.45*	5.45*	5.89*	5.89*
645	3	1.06	0.32	-4.1	0.0	0.0	-80.7	3.0	-13.8	5.45*	5.45*	5.89*	5.89*
645	4	0.28	0.32	-3.4	0.0	-0.1	-80.5	-11.6	15.2	5.45*	5.45*	5.45*	5.45*
772	1	0.36	0.08	-2.9	0.0	-0.1	-61.5	26.7	-19.2	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-6.3	0.1	1.1	-61.7	-35.0	20.7	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-6.0	0.3	-0.9	-64.6	-37.0	-20.7	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	-3.1	-0.1	0.1	-64.5	26.7	19.2	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	0.5	0.1	-0.1	-61.0	14.0	-13.8	5.45*	5.45*	5.89*	5.89*
773	2	1.19	0.08	-1.2	-0.2	-0.1	-61.5	-23.0	19.3	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	-1.1	-0.2	0.2	-64.7	-22.5	-19.1	5.45*	5.45*	5.45*	5.45*
773	4	0.32	0.32	0.4	0.1	0.0	-65.1	13.9	14.0	5.45*	5.45*	5.89*	5.89*
774	1	0.28	0.08	-1.2	0.0	0.1	-60.8	-9.9	-13.0	5.45*	5.45*	5.45*	5.45*
774	2	1.06	0.08	-1.7	0.0	0.0	60.6	2.5	11.9	5.45*	5.45*	5.89*	5.89*
774	3	1.06	0.32	-1.7	0.0	0.0	-65.5	2.6	-11.9	5.45*	5.45*	5.89*	5.89*
774	4	0.28	0.32	-1.3	0.0	-0.1	-65.3	-10.0	13.0	5.45*	5.45*	5.45*	5.45*
901	1	0.36	0.08	-2.5	0.0	-0.1	-30.9	21.4	-15.2	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-2.4	-0.2	0.4	-31.1	-26.9	13.8	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-2.1	0.1	-0.1	-35.4	-29.5	-13.7	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	-2.7	0.0	0.0	-35.3	21.5	15.2	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	-2.9	0.0	0.0	-30.2	11.0	-10.9	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	-2.8	-0.1	0.0	-30.8	-18.5	16.1	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	-2.7	-0.1	0.1	-35.3	-17.7	-15.9	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	-3.0	0.0	0.0	-35.7	10.9	11.1	5.45*	5.45*	5.89*	5.89*
903	1	0.28	0.08	3.0	0.0	0.1	-29.9	-7.7	-10.1	5.45*	5.45*	5.45*	5.45*
03	2	1.06	0.08	3.0	0.0	0.0	-29.7	2.0	9.5	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	3.0	0.0	0.0	-36.0	2.1	-9.5	5.45*	5.45*	5.89*	5.89*
903	4	0.28	0.32	2.9	0.0	0.0	-35.9	-8.0	10.0	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-1.7	0.0	0.0	8.7	20.0	-13.5	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.2	-0.5	-0.7	8.5	-24.7	6.4	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	3.5	-0.2	0.8	4.8	-24.5	-6.4	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-1.9	0.0	-0.1	4.9	19.9	13.5	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	-7.1	-0.1	0.0	9.6	9.6	-9.8	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	-4.6	0.1	0.2	9.0	-16.4	16.2	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	-4.5	0.1	-0.1	5.1	-16.5	-16.1	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	-7.2	-0.1	0.0	4.6	9.6	9.9	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	8.3	0.0	0.0	10.0	-7.0	-8.5	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	9.0	0.0	0.0	10.2	1.9	8.2	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	9.0	0.0	0.0	4.3	1.9	-8.2	5.45*	5.45*	5.89*	5.89*
1032	4	0.28	0.32	8.3	0.0	0.1	4.5	-7.0	8.4	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-1.6	0.0	0.1	0.3	30.6	-20.9	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	3.9	0.0	-1.0	0.1	-39.5	12.2	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	3.2	-0.7	0.5	9.7	-37.0	-12.2	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	-1.2	0.1	0.0	9.8	30.6	20.9	5.89*	5.89*	5.89*	5.89*
1160	1	0.32	0.08	-6.7	-0.1	0.0	1.6	14.9	-15.1	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	-3.9	0.0	0.1	0.9	-25.0	24.3	5.45*	5.45*	5.45*	5.45*

1160	3	1.19	0.32	-4.2	0.1	-0.3	9.8	-25.7	-24.1	5.45*	5.45*	5.45*	5.45*
1160	4	0.32	0.32	-6.4	0.0	0.0	9.7	14.9	15.3	5.45*	5.45*	5.89*	5.89*
1161	1	0.28	0.08	7.6	0.0	-0.1	2.0	-10.9	-11.3	5.45*	5.45*	5.45*	5.45*
1161	2	1.06	0.08	8.4	0.0	0.0	3.2	2.9	13.3	5.45*	5.45*	5.89*	5.89*
1161	3	1.06	0.32	8.3	0.0	0.0	9.9	2.9	-13.4	5.45*	5.45*	5.89*	5.89*
1161	4	0.28	0.32	7.7	0.1	0.0	9.1	-10.7	13.3	5.45*	5.45*	5.45*	5.45*
1288	1	0.36	0.04	2.0	0.3	0.6	-197.7	-0.6	-2.4	2.72*	2.72*	2.72*	2.72*
1288	2	1.35	0.04	2.3	1.4	-2.1	-193.8	18.6	1.4	2.72*	2.72*	2.94*	2.94*
1288	3	1.35	0.16	1.5	1.2	-2.0	-192.7	18.9	2.3	2.72*	2.72*	2.94*	2.94*
1288	4	0.36	0.16	1.3	0.1	0.7	-196.6	-0.9	-1.5	2.72*	2.72*	2.72*	2.72*
1289	1	0.32	0.04	-2.1	0.1	-0.1	-195.9	0.1	-1.8	2.72*	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-2.3	-0.7	0.3	-196.9	-5.3	2.0	2.72*	2.72*	2.72*	2.72*
1289	3	1.19	0.16	-2.2	-0.7	0.3	-195.7	-5.0	1.7	2.72*	2.72*	2.72*	2.72*
1289	4	0.32	0.16	-2.0	0.2	-0.2	-194.6	0.3	-2.1	2.72*	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-4.7	-0.1	0.0	-197.1	-0.5	-2.3	2.72*	2.72*	2.72*	2.72*
1290	2	1.06	0.04	-4.7	-0.1	-0.1	-196.7	1.2	2.2	2.72*	2.72*	2.94*	2.94*
1290	3	1.06	0.16	-4.7	-0.1	-0.1	-195.0	1.6	2.3	2.72*	2.72*	2.94*	2.94*
290	4	0.28	0.16	-4.7	-0.1	0.0	-195.4	-0.2	-2.2	2.72*	2.72*	2.72*	2.72*
1291	1	0.36	0.08	1.0	0.3	0.6	283.2	48.6	-29.0	20.81	19.93	5.89*	5.89*
1291	2	1.35	0.08	39.7	-2.1	-7.5	282.9	-49.4	-26.8	5.89*	35.62	5.89*	5.89*
1291	3	1.35	0.32	39.5	-2.2	7.4	285.3	-48.9	26.6	5.89*	35.73	5.89*	5.89*
1291	4	0.36	0.32	1.1	0.3	-0.5	285.3	48.6	29.0	20.92	20.13	5.89*	5.89*
1292	1	0.32	0.08	-39.4	-0.5	0.3	285.3	19.3	-21.3	35.69	5.89*	5.89*	5.89*
1292	2	1.19	0.08	-20.1	1.1	1.6	285.0	-37.5	47.4	27.80	12.53	5.89*	5.89*
1292	3	1.19	0.32	-20.1	1.1	-1.6	286.8	-37.6	-47.3	27.97	12.63	5.89*	5.89*
1292	4	0.32	0.32	-39.4	-0.5	-0.3	286.7	19.4	21.4	35.76	5.89*	5.89*	5.89*
293	1	0.28	0.08	48.4	0.1	-0.8	286.1	-15.0	-15.0	5.89*	39.40	5.89*	5.89*
293	2	1.06	0.08	54.0	-0.1	0.1	286.2	4.6	20.1	5.45*	41.66	5.89*	5.89*
1293	3	1.06	0.32	54.0	-0.1	-0.1	287.3	4.6	-20.1	5.45*	41.74	5.89*	5.89*
1293	4	0.28	0.32	48.5	0.1	0.8	287.3	-15.0	14.9	5.89*	39.50	5.89*	5.89*
1672	1	0.36	0.08	-2.8	-0.1	0.0	-23.6	31.8	-22.1	5.45*	5.45*	5.89*	5.89*
1672	2	1.35	0.08	-0.6	0.0	-0.1	-23.4	-44.4	16.8	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	-0.9	-0.3	-0.1	-19.6	-37.1	-16.9	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	-2.6	0.0	0.0	-19.1	31.6	22.0	5.45*	5.45*	5.89*	5.89*
1673	1	0.32	0.08	-4.8	0.0	0.0	-23.9	15.9	-16.1	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	-3.7	-0.1	-0.1	-23.7	-25.5	24.3	5.45*	5.45*	5.45*	5.45*
673	3	1.19	0.32	-3.8	0.0	-0.1	-18.7	-27.6	-24.3	5.45*	5.45*	5.45*	5.45*
673	4	0.32	0.32	-4.7	0.0	0.0	-18.4	15.9	16.0	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	5.1	0.0	0.0	-24.0	-11.7	-14.4	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	5.4	0.0	0.0	-24.0	3.1	14.0	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	5.4	0.0	0.0	-18.1	2.9	-14.0	5.45*	5.45*	5.89*	5.89*
1674	4	0.28	0.32	5.2	0.0	0.0	-18.2	-11.1	14.4	5.45*	5.45*	5.45*	5.45*
1675	1	0.36	0.08	-2.6	-0.1	0.0	-38.8	13.1	-9.4	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	-2.9	0.1	0.4	-38.5	-20.6	9.8	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	-3.0	0.1	-0.4	-39.5	-14.4	-9.8	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	-2.6	-0.1	0.0	-39.0	13.0	9.3	5.45*	5.45*	5.89*	5.89*
1676	1	0.32	0.08	-2.3	0.0	0.0	-39.3	6.8	-6.8	5.45*	5.45*	5.89*	5.89*
1676	2	1.19	0.08	-2.4	-0.1	-0.1	-39.0	-10.2	9.4	5.45*	5.45*	5.45*	5.45*
1676	3	1.19	0.32	-2.4	-0.1	0.1	-38.7	-12.0	-9.5	5.45*	5.45*	5.45*	5.45*
1676	4	0.32	0.32	-2.3	0.0	0.0	-38.2	6.8	6.7	5.45*	5.45*	5.89*	5.89*
1677	1	0.28	0.08	2.2	0.0	0.0	-39.4	-5.1	-6.3	5.45*	5.45*	5.45*	5.45*
1677	2	1.06	0.08	2.1	0.0	0.0	-39.5	1.3	5.8	5.45*	5.45*	5.89*	5.89*
1677	3	1.06	0.32	2.1	0.0	0.0	-38.0	1.2	-5.8	5.45*	5.45*	5.89*	5.89*
1677	4	0.28	0.32	2.2	0.0	0.0	-38.0	-4.6	6.3	5.45*	5.45*	5.45*	5.45*
1678	1	0.36	0.08	-3.2	-0.1	-0.1	-60.1	19.1	-14.1	5.45*	5.45*	5.89*	5.89*
78	2	1.35	0.08	-5.8	0.2	0.9	-60.0	-24.4	17.5	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-6.0	0.1	-1.0	-59.4	-28.7	-17.6	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	-3.1	-0.1	0.1	-59.0	19.2	14.0	5.45*	5.45*	5.89*	5.89*
1679	1	0.32	0.08	-0.2	0.0	0.0	-60.6	10.3	-10.2	5.45*	5.45*	5.89*	5.89*
1679	2	1.19	0.08	-1.5	-0.2	-0.2	-60.4	-17.1	13.2	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	-1.6	-0.1	0.2	-58.8	-15.9	-13.3	5.45*	5.45*	5.45*	5.45*
1679	4	0.32	0.32	-0.2	0.1	0.1	-58.4	10.3	10.1	5.45*	5.45*	5.89*	5.89*
1680	1	0.28	0.08	-0.5	0.0	0.1	-60.8	-7.1	-9.7	5.45*	5.45*	5.45*	5.45*
1680	2	1.06	0.08	-0.9	0.0	0.0	-60.8	1.8	8.6	5.45*	5.45*	5.89*	5.89*
1680	3	1.06	0.32	-0.9	0.0	0.0	-58.2	1.9	-8.6	5.45*	5.45*	5.89*	5.89*
1680	4	0.28	0.32	-0.5	0.0	-0.1	-58.3	-7.4	9.7	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	-3.4	-0.1	-0.1	-75.6	19.0	-14.1	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-8.1	0.3	1.3	-75.7	-27.9	18.8	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-8.0	0.4	-1.3	-74.6	-25.5	-19.8	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	-3.5	-0.1	0.1	-74.5	19.0	14.1	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	1.5	0.1	0.0	-75.8	10.3	-10.2	5.45*	5.45*	5.89*	5.89*
1808	2	1.19	0.08	-0.8	-0.2	-0.3	-75.8	-16.1	12.9	5.45*	5.45*	5.45*	5.45*
1808	3	1.19	0.32	-0.8	-0.2	0.3	-74.5	-16.6	-12.9	5.45*	5.45*	5.45*	5.45*
1808	4	0.32	0.32	1.5	0.1	0.0	-74.3	10.3	10.1	5.45*	5.45*	5.89*	5.89*
1809	1	0.28	0.08	-2.6	0.0	0.1	-75.9	-7.4	-9.8	5.45*	5.45*	5.45*	5.45*
1809	2	1.06	0.08	-3.3	0.0	0.0	-76.0	1.8	8.6	5.45*	5.45*	5.89*	5.89*
309	3	1.06	0.32	-3.3	0.0	0.0	-74.3	1.8	-8.6	5.45*	5.45*	5.89*	5.89*
1809	4	0.28	0.32	-2.6	0.0	-0.1	-74.3	-7.2	9.8	5.45*	5.45*	5.45*	5.45*
1936	1	0.36	0.08	-3.2	-0.1	-0.1	-60.4	27.9	-19.4	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-6.1	0.2	1.0	-60.5	-79.0	20.3	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-6.0	0.2	-0.9	-58.9	6.5	-20.3	5.45*	5.45*	5.89*	5.89*
1936	4	0.36	0.32	-3.3	-0.1	0.1	-58.8	26.2	19.4	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	-0.3	0.0	0.0	-60.5	13.7	-14.1	5.45*	5.45*	5.89*	5.89*
1937	2	1.19	0.08	-1.7	-0.2	-0.2	-60.5	-10.8	19.6	5.45*	5.45*	5.45*	5.45*
1937	3	1.19	0.32	-1.6	-0.2	0.2	-58.8	-35.2	-19.6	5.45*	5.45*	5.45*	5.45*
1937	4	0.32	0.32	-0.3	0.0	0.0	-58.6	14.5	14.0	5.45*	5.45*	5.89*	5.89*
1938	1	0.28	0.08	-0.4	0.0	0.1	-60.6	-13.5	-13.1	5.45*	5.45*	5.45*	5.45*
1938	2	1.06	0.08	-0.8	0.0	0.0	-60.6	3.5	12.1	5.45*	5.45*	5.89*	5.89*
1938	3	1.06	0.32	-0.8	0.0	0.0	-58.5	1.6	-12.0	5.45*	5.45*	5.89*	5.89*
1938	4	0.28	0.32	-0.4	0.0	-0.1	-58.6	-4.6	13.1	5.45*	5.45*	5.45*	5.45*
2065	1	0.36	0.08	-3.4	-0.1	-0.1	-49.8	31.0	-21.4	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-5.2	0.0	0.8	-49.9	-82.4	19.5	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-4.8	0.2	-0.7	-48.3	3.0	-19.5	5.45*	5.45*	5.89*	5.89*
2065	4	0.36	0.32	-3.6	-0.1	0.0	-48.1	29.3	21.4	5.45*	5.45*	5.89*	5.89*
2066	1	0.32	0.08	-1.8	0.0	0.0	-49.8	15.0	-15.5	5.45*	5.45*	5.89*	5.89*
066	2	1.19	0.08	-2.7	-0.1	-0.1	-49.8	-13.3	22.4	5.45*	5.45*	5.45*	5.45*
2066	3	1.19	0.32	-2.5	-0.2	0.2	-48.1	-37.7	-22.5	5.45*	5.45*	5.45*	5.45*
2066	4	0.32	0.32	-1.9	0.0	0.0	-48.0	15.8	15.5	5.45*	5.45*	5.89*	5.89*
2067	1	0.28	0.08	1.5	0.0	0.1	-49.8	-14.5	-14.2	5.45*	5.45*	5.45*	5.45*
2067	2	1.06	0.08	1.2	0.0	0.0	-49.8	3.8	13.4	5.45*	5.45*	5.89*	5.89*
2067	3	1.06	0.32	1.2	0.0	0.0	-47.9	2.0	-13.4	5.45*	5.45*	5.89*	5.89*
2067	4	0.28	0.32	1.4	0.0	-0.1	-47.9	-7.6	14.2	5.45*	5.45*	5.45*	5.45*
2194	1	0.36	0.08	-3.5	0.0	-0.1	-22.8	33.8	-22.6	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-2.4	-0.3	0.3	-22.9	-96.6	15.7	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-1.9	0.1	0.0	-24.1	13.4	-15.7	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	-3.9	-0.1	0.0	-23.9	31.6	22.6	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	-5.2	0.0	0.0	-22.7	15.7	-16.4	5.45*	5.45*	5.89*	5.89*
2195	2	1.19	0.08	-4.7	-0.1	0.1	-22.7	-11.6	25.4	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	-4.3	-0.1	0.1	-23.7	-43.0	-25.4	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	-5.4	0.0	0.0	-23.6	16.7	16.4	5.45*	5.45*	5.89*	5.89*
2196	1	0.28	0.08	5.7	0.1	0.1	-22.6	-16.1	-14.6	5.45*	5.45*	5.45*	5.45*
2196	2	1.06	0.08	5.8	0.0	0.0	-22.6	4.3	14.4	5.45*	5.45*	5.89*	5.89*
2196	3	1.06	0.32	5.8	0.0	0.0	-23.5	1.9	-14.7	5.45*	5.45*	5.89*	5.89*
2196	4	0.28	0.32	5.5	0.0	0.0	-23.6	-7.3	14.6	5.45*	5.45*	5.45*	5.45*
2323	1	0.36	0.08	-2.6	0.1	0.1	66.1	38.5	-24.5	5.89*	5.89*	5.89*	5.89*
2323	2	1.35	0.08	8.6	-1.0	-1.6	65.9	-98.5	3.0	5.89*	8.06	5.89*	5.89*

2323	3	1.35	0.32	9.6	-0.2	2.2	59.0	10.9	-3.0	5.89*	7.95	5.89*	5.89*
2323	4	0.36	0.32	-3.2	0.0	-0.2	59.2	36.3	24.5	5.89*	5.89*	5.89*	5.89*
2324	1	0.32	0.08	-15.3	-0.1	0.1	66.6	16.6	-17.9	10.74	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-9.7	0.3	0.5	66.5	-14.7	31.9	8.54	5.89*	5.89*	5.89*
2324	3	1.19	0.32	-9.2	0.2	-0.2	59.9	-45.9	-31.9	7.88	5.89*	5.89*	5.89*
2324	4	0.32	0.32	-15.7	-0.2	-0.1	59.9	17.6	17.9	10.36	5.45*	5.89*	5.89*
2325	1	0.28	0.08	18.4	0.1	-0.2	66.9	-17.1	-14.7	5.45*	11.92	5.45*	5.45*
2325	2	1.06	0.08	20.0	0.0	0.0	66.9	4.7	16.1	5.45*	12.53	5.89*	5.89*
2325	3	1.06	0.32	20.1	0.0	0.0	60.1	2.4	-16.1	5.45*	12.05	5.89*	5.89*
2325	4	0.28	0.32	18.2	0.0	0.3	60.1	-8.3	14.7	5.45*	11.33	5.45*	5.45*
2452	1	0.36	0.08	-9.7	0.3	0.3	189.5	36.8	-22.2	13.34	13.93	5.89*	5.89*
2452	2	1.35	0.08	25.1	-1.9	-4.6	189.3	-36.6	-17.7	5.89*	23.25	5.89*	5.89*
2452	3	1.35	0.32	26.0	-1.0	5.2	177.3	-39.1	17.7	5.89*	22.80	5.89*	5.89*
2452	4	0.36	0.32	-1.2	0.1	-0.4	177.4	36.8	22.2	12.75	12.75	5.89*	5.89*
2453	1	0.32	0.08	-28.6	-0.3	0.1	190.7	14.9	-16.3	24.75	5.89*	5.89*	5.89*
2453	2	1.19	0.08	-15.7	0.7	1.2	190.6	-29.0	35.4	19.51	7.38	5.89*	5.89*
2453	3	1.19	0.32	-15.2	0.6	-0.9	178.7	-28.2	-35.3	18.50	6.69	5.89*	5.89*
53	4	0.32	0.32	-28.9	-0.4	-0.2	178.6	14.9	16.3	24.04	5.89*	5.89*	5.89*
54	1	0.28	0.08	35.0	0.1	-0.5	191.3	-11.4	-11.7	5.45*	27.44	5.45*	5.45*
2454	2	1.06	0.08	32.7	-0.1	0.1	191.3	3.4	15.3	5.45*	28.83	5.89*	5.89*
2454	3	1.06	0.32	38.8	0.0	-0.1	179.1	3.5	-15.3	5.45*	27.94	5.89*	5.89*
2454	4	0.28	0.32	34.8	0.0	0.6	179.1	-11.6	11.7	5.45*	26.44	5.45*	5.45*
2581	1	0.36	0.08	-2.6	0.0	0.1	8.5	33.2	-22.6	5.45*	5.45*	5.89*	5.89*
2581	2	1.35	0.08	3.2	-0.2	-0.8	8.9	-41.0	11.5	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	2.9	-0.5	0.7	7.8	-41.3	-11.6	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-2.4	0.0	0.0	8.5	33.2	22.5	5.45*	5.45*	5.89*	5.89*
82	1	0.32	0.08	-8.2	-0.1	0.0	8.2	16.0	-16.4	5.45*	5.45*	5.89*	5.89*
82	2	1.19	0.08	-5.4	0.0	0.1	8.5	-27.5	26.5	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-5.5	0.1	-0.2	9.1	-27.4	-26.6	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	-8.2	-0.1	0.0	9.5	16.0	16.4	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	9.4	0.0	-0.1	8.2	-11.7	-14.2	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	10.3	0.0	0.0	8.2	3.1	14.5	5.45*	5.45*	5.89*	5.89*
2583	3	1.06	0.32	10.2	0.0	0.0	9.9	3.2	-14.5	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	9.5	0.1	0.1	9.8	-11.7	14.3	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-1.0	0.1	-0.1	-9.7	25.1	-17.6	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	0.4	-0.9	0.1	-8.9	-31.6	12.7	5.45*	5.45*	5.45*	5.45*
62	3	1.35	0.32	1.8	0.4	0.7	-21.2	-32.8	-12.9	5.45*	5.45*	5.45*	5.45*
62	4	0.36	0.32	-1.9	-0.1	-0.1	-20.1	25.1	17.3	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	-3.8	0.0	-0.1	-11.3	12.5	-12.8	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-3.2	0.1	0.3	-10.5	-21.2	19.3	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-2.4	-0.1	0.1	-19.0	-20.8	-19.5	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-4.3	-0.1	-0.1	-18.0	12.5	12.6	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	4.8	0.1	0.1	-11.6	-9.0	-11.3	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	5.0	0.0	0.0	-11.6	2.4	11.1	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	5.0	0.0	0.0	-17.5	2.4	-11.1	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	4.4	0.0	0.1	-17.6	-9.1	11.3	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.4	0.1	0.0	21.8	14.1	-9.3	5.89*	5.89*	5.89*	5.89*
2965	2	1.35	0.08	3.7	-0.7	-0.7	22.5	-12.3	0.3	5.89*	5.89*	5.89*	5.89*
2965	3	1.35	0.32	4.4	-0.1	1.1	16.2	-20.5	-0.8	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	-2.9	0.0	-0.1	17.2	14.3	9.1	5.89*	5.89*	5.89*	5.89*
2966	1	0.32	0.08	-9.4	0.0	0.0	20.6	6.4	-6.8	5.45*	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-6.4	0.2	0.3	21.4	-12.6	12.1	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	-6.0	0.1	-0.1	18.3	-10.2	-12.3	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	-9.7	-0.1	-0.1	19.2	6.4	6.6	5.45*	5.45*	5.89*	5.89*
2967	1	0.28	0.08	11.2	0.1	-0.1	20.5	-4.5	-5.4	5.45*	5.74	5.45*	5.45*
7	2	1.06	0.08	12.0	0.0	0.0	20.5	1.2	6.1	5.45*	6.06	5.89*	5.89*
2967	3	1.06	0.32	12.1	0.0	0.0	19.7	1.4	-6.0	5.45*	6.02	5.89*	5.89*
2967	4	0.28	0.32	11.0	0.0	0.1	19.6	-5.1	5.5	5.45*	5.60	5.45*	5.45*
2968	1	0.36	0.08	-3.4	0.1	0.0	33.1	28.3	-19.1	5.89*	5.89*	5.89*	5.89*
2968	2	1.35	0.08	4.3	-0.7	-0.9	33.7	-30.2	6.5	5.89*	5.89*	5.89*	5.89*
2968	3	1.35	0.32	4.7	-0.4	1.2	27.9	-38.4	-6.7	5.89*	5.89*	5.89*	5.89*
2968	4	0.36	0.32	-3.7	0.0	-0.1	28.8	28.4	18.9	5.89*	5.89*	5.89*	5.89*
2969	1	0.32	0.08	-11.9	-0.1	0.0	32.0	13.6	-13.9	6.86	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-8.0	0.1	0.3	32.8	-24.4	23.3	5.45	5.45*	5.45*	5.45*
2969	3	1.19	0.32	-7.8	0.1	-0.2	29.9	-22.1	-23.5	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	-12.0	-0.1	0.0	30.9	13.3	13.7	6.82	5.45*	5.89*	5.89*
2970	1	0.28	0.08	13.9	0.1	-0.1	31.8	-9.5	-11.7	5.45*	7.59	5.45*	5.45*
2970	2	1.06	0.08	15.0	0.0	0.0	31.7	2.6	12.3	5.45*	8.01	5.89*	5.89*
2970	3	1.06	0.32	15.0	0.0	0.0	31.5	2.8	-12.3	5.45*	8.00	5.89*	5.89*
2970	4	0.28	0.32	13.8	0.0	0.1	31.4	-10.1	11.8	5.45*	7.53	5.45*	5.45*
3097	1	0.36	0.08	-3.5	0.1	0.1	42.6	23.5	-15.4	5.89*	5.89*	5.89*	5.89*
3097	2	1.35	0.08	6.0	-0.5	-1.3	43.2	-27.0	1.4	5.89*	5.89*	5.89*	5.89*
3097	3	1.35	0.32	5.9	-0.6	1.3	40.3	-27.7	-1.5	5.89*	5.89*	5.89*	5.89*
3097	4	0.36	0.32	-3.4	0.1	-0.1	41.2	23.5	15.2	5.89*	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-13.3	-0.1	0.0	41.8	10.7	-11.3	8.10	5.45*	5.89*	5.89*
3098	2	1.19	0.08	-8.5	0.2	0.3	42.5	-19.1	20.0	6.38	5.45*	5.45*	5.45*
3098	3	1.19	0.32	-8.6	0.2	-0.3	42.2	-18.9	-20.2	6.37	5.45*	5.45*	5.45*
3098	4	0.32	0.32	-13.3	-0.1	0.0	43.1	10.7	11.1	8.19	5.45*	5.89*	5.89*
3099	1	0.28	0.08	15.4	0.0	-0.1	41.7	-7.9	-9.2	5.45*	8.92	5.45*	5.45*
3099	2	1.06	0.08	16.8	0.0	0.0	41.6	2.2	10.1	5.45*	9.43	5.89*	5.89*
3099	3	1.06	0.32	16.8	0.0	0.0	43.7	2.2	-10.1	5.45*	9.58	5.89*	5.89*
3099	4	0.28	0.32	15.4	0.0	0.1	43.6	-8.0	9.2	5.45*	9.06	5.45*	5.45*
3226	1	0.36	0.08	-3.2	0.0	0.1	31.0	23.7	-15.8	5.89*	5.89*	5.89*	5.89*
3226	2	1.35	0.08	5.6	-0.2	-1.4	31.5	-28.1	3.6	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	4.9	-0.9	0.9	33.6	-28.5	-3.7	5.89*	5.89*	5.89*	5.89*
3226	4	0.36	0.32	-2.8	0.1	0.0	34.4	23.8	15.6	5.89*	5.89*	5.89*	5.89*
3227	1	0.32	0.08	-11.8	-0.1	0.0	30.5	11.0	-11.5	6.70	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-7.3	0.1	0.2	31.1	-19.4	19.8	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	-7.7	0.2	-0.4	35.1	-19.3	-20.0	5.51	5.45*	5.45*	5.45*
3227	4	0.32	0.32	-11.5	0.0	0.0	35.9	11.0	11.4	7.01	5.45*	5.89*	5.89*
3228	1	0.28	0.08	13.5	0.0	-0.1	30.4	-8.1	-9.6	5.45*	7.34	5.45*	5.45*
3228	2	1.06	0.08	14.8	0.0	0.0	30.3	2.2	10.2	5.45*	7.83	5.89*	5.89*
3228	3	1.06	0.32	14.7	0.0	0.0	36.4	2.3	-10.2	5.45*	8.26	5.89*	5.89*
3228	4	0.28	0.32	13.7	0.1	0.1	36.3	-8.1	9.6	5.45*	7.84	5.45*	5.45*
3355	1	0.36	0.08	-3.1	-0.1	0.1	3.7	22.8	-15.4	5.45*	5.45*	5.89*	5.89*
3355	2	1.35	0.08	2.2	0.0	-0.7	4.2	-29.4	6.8	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	1.9	-0.3	0.5	5.0	-26.4	-7.0	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-2.9	0.0	-0.1	5.8	22.7	15.3	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	-8.3	-0.1	0.1	3.3	10.9	-11.2	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-5.7	0.1	0.0	3.6	-18.3	18.3	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-5.8	0.1	-0.1	6.4	-19.2	-18.4	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	-8.2	-0.1	-0.1	6.9	10.9	11.1	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	9.4	0.0	-0.1	3.2	-8.1	-9.6	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	10.2	0.0	0.0	3.2	2.2	9.9	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	10.2	0.0	0.0	7.3	2.1	-9.9	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	9.5	0.0	0.1	7.2	-7.8	9.7	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	0.6	0.2	0.1	-243.5	8.8	-14.0	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	1.0	2.2	1.1	-219.4	-370.5	31.6	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	1.9	2.4	3.2	-306.1	-367.8	13.9	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	1.5	0.4	0.2	-230.2	11.5	-31.7	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-4.7	0.2	0.8	-295.0	-5.7	-29.0	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-5.0	-1.1	-0.1	-274.0	99.2	23.4	2.72*	2.72*	3.67	3.45
3485	3	1.19	0.16	-5.3	-1.2	-0.2	-256.6	102.6	29.0	2.72*	2.72*	3.81	3.55
3485	4	0.32	0.16	-5.0	0.2	0.8	-277.6	-2.2	-23.5	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-9.1	-0.1	0.3	-283.6	5.1	-28.0	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-9.1	-0.1	0.0	-290.5	-29.5	30.0	2.72*	2.72*	2.72*	2.72*

3486	3	1.06	0.16	-9.2	-0.2	0.0	-268.9	-25.2	28.0	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-9.2	-0.1	0.3	-262.0	0.4	-30.0	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 4

hipo 4 p. propio (proceso hipo-4) + pret (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cn = 1.5 Cn = 1.5

ELEM	P	X	Y	Mx	My	Mxy	Nx	Ny	Nxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	-2.9	0.0	-0.1	-17.7	65.0	-45.4	5.45*	5.45*	5.89*	5.89*
379	2	1.35	0.08	-0.3	-0.2	-0.1	-18.1	-27.8	27.6	5.45*	5.45*	5.45*	5.45*
379	3	1.35	0.32	-0.5	-0.4	0.0	-18.7	-138.5	-27.6	5.45*	5.45*	5.45*	5.45*
379	4	0.36	0.32	-2.8	0.0	0.1	-18.8	67.2	45.4	5.45*	5.45*	5.89*	5.89*
380	1	0.32	0.08	-5.4	0.0	-0.1	-16.9	32.9	-32.9	5.45*	5.45*	5.89*	5.89*
380	2	1.19	0.08	-4.1	-0.2	0.1	-17.3	-70.7	52.1	5.45*	5.45*	5.45*	5.45*
380	3	1.19	0.32	-4.2	-0.2	-0.2	-18.9	-39.1	-52.0	5.45*	5.45*	5.45*	5.45*
380	4	0.32	0.32	-5.3	0.0	0.1	-19.1	31.8	33.0	5.45*	5.45*	5.89*	5.89*
381	1	0.28	0.08	5.9	0.1	0.1	-16.6	-19.0	-29.1	5.45*	5.45*	5.45*	5.45*
381	2	1.06	0.08	6.3	0.0	-0.1	-16.4	5.1	28.9	5.45*	5.45*	5.89*	5.89*
381	3	1.06	0.32	6.3	0.0	0.1	-19.4	7.5	-28.9	5.45*	5.45*	5.89*	5.89*
381	4	0.28	0.32	6.0	0.1	-0.1	-19.2	-27.9	29.0	5.45*	5.45*	5.45*	5.45*
382	1	0.36	0.08	-2.9	0.0	0.0	-24.5	52.2	-36.8	5.45*	5.45*	5.89*	5.89*
382	2	1.35	0.08	-1.5	-0.2	0.1	-25.0	-11.9	24.3	5.45*	5.45*	5.45*	5.45*
382	3	1.35	0.32	-1.4	-0.1	-0.1	-27.2	-123.2	-24.2	5.45*	5.45*	5.45*	5.45*
382	4	0.36	0.32	-3.0	0.0	0.1	-27.4	54.4	36.8	5.45*	5.45*	5.89*	5.89*
383	1	0.32	0.08	-4.5	0.0	0.0	-23.6	26.8	-26.7	5.45*	5.45*	5.89*	5.89*
383	2	1.19	0.08	-3.7	-0.1	0.1	-24.1	-60.3	41.7	5.45*	5.45*	5.45*	5.45*
383	3	1.19	0.32	-3.7	-0.1	0.0	-27.5	-28.6	-41.6	5.45*	5.45*	5.45*	5.45*
383	4	0.32	0.32	-4.5	0.0	0.0	-27.9	25.8	26.8	5.45*	5.45*	5.89*	5.89*
384	1	0.28	0.08	4.8	0.0	0.1	-22.4	-14.6	-23.7	5.45*	5.45*	5.45*	5.45*
384	2	1.06	0.08	5.0	0.0	0.0	-23.1	3.9	23.4	5.45*	5.45*	5.89*	5.89*
384	3	1.06	0.32	5.0	0.0	0.0	-28.3	6.3	-23.4	5.45*	5.45*	5.89*	5.89*
384	4	0.28	0.32	4.8	0.0	0.0	-28.1	-23.5	23.7	5.45*	5.45*	5.45*	5.45*
385	1	0.36	0.08	-3.3	0.0	-0.1	-22.4	38.1	-26.9	5.45*	5.45*	5.89*	5.89*
385	2	1.35	0.08	-2.0	-0.3	0.3	-22.9	-6.1	18.1	5.45*	5.45*	5.45*	5.45*
385	3	1.35	0.32	-1.5	0.2	0.0	-25.7	-92.8	-18.0	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	-3.6	-0.1	0.0	-25.9	39.8	27.0	5.45*	5.45*	5.89*	5.89*
386	1	0.32	0.08	-5.1	0.0	0.0	-21.4	19.7	-19.5	5.45*	5.45*	5.89*	5.89*
386	2	1.19	0.08	-4.4	-0.1	0.1	-22.0	-44.8	30.4	5.45*	5.45*	5.45*	5.45*
386	3	1.19	0.32	-4.2	-0.1	0.1	-26.0	-20.1	-30.3	5.45*	5.45*	5.45*	5.45*
386	4	0.32	0.32	-5.2	0.0	0.0	-26.4	18.8	19.6	5.45*	5.45*	5.89*	5.89*
387	1	0.28	0.08	5.6	0.0	0.0	-21.1	-10.4	-17.4	5.45*	5.45*	5.45*	5.45*
387	2	1.06	0.08	5.8	0.0	0.0	-20.8	2.8	17.1	5.45*	5.45*	5.89*	5.89*
387	3	1.06	0.32	5.8	0.0	0.0	-26.9	4.6	-17.1	5.45*	5.45*	5.89*	5.89*
387	4	0.28	0.32	5.5	0.0	0.0	-26.6	-17.4	17.2	5.45*	5.45*	5.45*	5.45*
514	1	0.36	0.08	-3.2	0.1	-0.1	17.3	28.6	-19.8	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	1.9	-0.8	-0.4	17.1	7.6	8.6	5.89*	5.89*	5.89*	5.89*
514	3	1.35	0.32	2.9	0.1	1.0	8.1	-79.6	-8.5	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	-3.8	-0.1	-0.1	8.2	30.3	19.8	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	-9.4	0.0	0.0	18.1	14.5	-14.4	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-6.8	0.1	0.2	17.6	-26.6	23.9	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-6.4	0.0	0.0	8.6	-11.8	-23.8	5.45*	5.45*	5.45*	5.45*
515	4	0.32	0.32	-9.7	-0.1	0.0	8.1	13.6	14.5	5.45*	5.45*	5.89*	5.89*

516	1	0.28	0.08	11.0	0.1	0.0	18.5	-6.8	-12.4	5.45*	5.52	5.45*	5.45*
516	2	1.06	0.08	11.7	0.0	0.0	18.7	1.9	12.8	5.45*	5.80	5.89*	5.89*
516	3	1.06	0.32	11.7	0.0	0.0	7.9	3.7	-12.8	5.45*	5.45*	5.89*	5.89*
516	4	0.28	0.32	10.8	0.0	0.1	8.0	-13.8	12.4	5.45*	5.45*	5.45*	5.45*
643	1	0.36	0.08	-3.0	0.1	0.1	72.4	27.9	-18.1	6.19	5.89*	5.89*	5.89*
643	2	1.35	0.08	9.8	-0.8	-2.0	72.2	-30.9	0.0	5.89*	8.96	5.89*	5.89*
643	3	1.35	0.32	10.0	-0.7	2.1	70.5	-33.4	0.0	5.89*	8.91	5.89*	5.89*
643	4	0.36	0.32	-3.0	0.1	-0.1	70.6	27.9	18.1	6.11	5.89*	5.89*	5.89*
644	1	0.32	0.08	-16.4	-0.1	0.1	73.7	12.6	-13.1	11.66	5.45*	5.89*	5.89*
644	2	1.19	0.08	-10.0	0.3	0.5	73.1	-22.9	24.3	9.12	5.89*	5.89*	5.89*
644	3	1.19	0.32	-10.0	0.3	-0.4	71.0	-22.2	-24.2	8.95	5.89*	5.89*	5.89*
644	4	0.32	0.32	-16.5	-0.1	-0.1	70.6	12.5	13.3	11.45	5.45*	5.89*	5.89*
645	1	0.28	0.08	19.4	0.1	-0.2	74.3	-9.3	-10.7	5.45*	12.84	5.45*	5.45*
645	2	1.06	0.08	21.3	0.0	0.0	74.5	2.6	11.9	5.45*	13.55	5.89*	5.89*
645	3	1.06	0.32	21.3	0.0	0.0	70.4	2.7	-12.0	5.45*	13.26	5.89*	5.89*
645	4	0.28	0.32	19.4	0.0	0.2	70.5	-9.5	10.6	5.45*	12.56	5.45*	5.45*
772	1	0.36	0.08	-3.6	0.0	0.1	29.4	15.6	-10.1	5.89*	5.89*	5.89*	5.89*
772	2	1.35	0.08	5.0	-0.2	-1.3	29.2	-17.3	0.2	5.89*	5.89*	5.89*	5.89*
772	3	1.35	0.32	4.4	-0.7	0.9	34.7	-18.6	-0.2	5.89*	5.89*	5.89*	5.89*
772	4	0.36	0.32	-3.3	0.1	0.0	34.8	15.6	10.1	5.89*	5.89*	5.89*	5.89*
773	1	0.32	0.08	-12.1	-0.1	0.1	30.7	7.0	-7.3	6.84	5.45*	5.89*	5.89*
773	2	1.19	0.08	-7.8	0.1	0.1	30.1	-12.7	13.6	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	-8.0	0.2	-0.3	34.9	-12.4	-13.4	5.62	5.45*	5.45*	5.45*
773	4	0.32	0.32	-11.9	-0.1	0.0	34.4	7.0	7.5	7.03	5.45*	5.89*	5.89*
774	1	0.28	0.08	13.8	0.0	-0.1	31.2	-5.2	-6.0	5.45*	7.52	5.45*	5.45*
774	2	1.06	0.08	15.1	0.0	0.0	31.5	1.5	6.6	5.45*	8.02	5.89*	5.89*
774	3	1.06	0.32	15.0	0.0	0.0	34.0	1.5	-6.7	5.45*	8.20	5.89*	5.89*
774	4	0.28	0.32	13.9	0.1	0.1	34.2	-5.3	5.9	5.45*	7.80	5.45*	5.45*
901	1	0.36	0.08	-3.5	0.0	0.1	-0.8	11.5	-7.8	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	1.2	0.0	-0.5	-1.0	-13.3	4.0	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	0.7	-0.5	0.2	0.4	-15.1	-4.0	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	-3.2	0.1	0.0	0.5	11.5	7.8	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	-7.9	-0.1	0.0	0.4	5.5	-5.6	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	-5.5	0.0	0.0	-0.3	-9.7	9.3	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	-5.8	0.1	-0.1	0.6	-9.2	-9.1	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	-7.7	0.0	0.0	0.0	5.5	5.8	5.45*	5.45*	5.89*	5.89*
903	1	0.28	0.08	8.7	0.0	-0.1	0.8	-4.0	-4.9	5.45*	5.45*	5.45*	5.45*
903	2	1.06	0.08	9.4	0.0	0.0	1.0	1.1	5.0	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	9.4	0.0	0.0	-0.4	1.1	-5.0	5.45*	5.45*	5.89*	5.89*
903	4	0.28	0.32	8.9	0.0	0.0	-0.2	-4.1	4.9	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-2.2	0.0	0.1	5.4	14.6	-9.9	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	3.2	-0.1	-0.8	5.2	-18.5	4.6	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	2.7	-0.5	0.6	9.0	-17.4	-4.5	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-1.9	0.1	0.0	5.1	14.6	9.8	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	-7.3	-0.1	0.0	6.5	7.0	-7.1	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	-4.6	0.1	0.1	5.9	-11.9	11.9	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	-4.8	0.1	-0.2	5.2	-12.2	-11.7	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	-7.1	0.0	0.0	4.7	7.0	7.3	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	8.3	0.0	-0.1	7.0	-5.2	-4.2	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	9.1	0.0	0.0	7.2	1.4	6.3	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	9.0	0.0	0.0	4.3	1.4	-6.4	5.45*	5.45*	5.89*	5.89*
1032	4	0.28	0.32	8.4	0.0	0.1	4.5	-5.1	6.1	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-1.6	-0.1	0.1	-32.4	29.5	-20.6	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	0.2	0.5	-0.5	-32.5	-39.9	17.1	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	-0.6	-0.2	-0.3	-18.9	-26.6	-17.1	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	-0.8	0.1	0.1	-18.8	29.4	20.6	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	-2.2	-0.1	0.0	-21.1	14.8	-14.9	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	-1.5	-0.1	-0.2	-21.8	-24.3	22.4	5.45*	5.45*	5.45*	5.45*
1160	3	1.19	0.32	-2.2	0.0	-0.2	-19.1	-25.3	-22.2	5.45*	5.45*	5.45*	5.45*
1160	4	0.32	0.32	-2.3	0.0	0.1	-19.7	14.9	15.1	5.45*	5.45*	5.89*	5.89*
1161	1	0.28	0.08	2.6	0.0	-0.1	-20.6	-10.8	-13.6	5.45*	5.45*	5.45*	5.45*
1161	2	1.06	0.08	3.0	0.0	0.0	-20.4	2.9	13.0	5.45*	5.45*	5.89*	5.89*
1161	3	1.06	0.32	2.9	0.0	0.0	-20.3	2.8	-13.0	5.45*	5.45*	5.89*	5.89*
1161	4	0.28	0.32	2.9	0.1	-0.1	-20.0	-10.6	13.5	5.45*	5.45*	5.45*	5.45*
1288	1	0.36	0.04	1.1	0.4	0.7	-308.5	-1.6	-6.8	2.72*	2.72*	2.72*	2.72*
1288	2	1.35	0.04	1.4	2.0	-2.2	-303.0	26.5	5.5	2.72*	2.72*	2.94*	2.94*
1288	3	1.35	0.16	0.6	1.8	-2.1	-299.4	27.2	6.7	2.72*	2.72*	2.94*	2.94*
1288	4	0.36	0.16	0.2	0.2	0.8	-304.9	-0.3	-5.6	2.72*	2.72*	2.72*	2.72*
1289	1	0.32	0.04	-6.2	0.2	-0.1	-306.5	-0.1	-6.4	2.72*	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-6.5	-1.1	0.4	-308.0	-7.9	6.7	2.72*	2.72*	2.72*	2.72*
1289	3	1.19	0.16	-6.2	-1.1	0.3	-303.7	-7.8	6.3	2.72*	2.72*	2.72*	2.72*
1289	4	0.32	0.16	-6.1	0.2	-0.1	-302.1	0.3	-6.8	2.72*	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-11.1	-0.2	0.0	-308.6	-1.1	-7.5	2.72*	2.72*	2.72*	2.72*
1290	2	1.06	0.04	-11.1	-0.2	-0.1	-308.1	1.4	7.3	2.72*	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-11.1	-0.2	-0.1	-302.6	2.5	7.5	2.72*	2.72*	2.94*	2.94*
1290	4	0.28	0.16	-11.1	-0.2	0.0	-303.1	0.9	-7.4	2.72*	2.72*	2.72*	2.72*
291	1	0.36	0.08	-2.5	0.1	0.0	13.5	74.8	-50.9	5.45*	5.45*	5.89*	5.89*
1291	2	1.35	0.08	4.0	-0.5	-0.9	13.2	-93.2	26.4	5.45*	5.45*	5.45*	5.45*
1291	3	1.35	0.32	3.8	-0.7	0.8	15.6	-92.5	-26.4	5.45*	5.45*	5.45*	5.45*
1291	4	0.36	0.32	-2.4	0.1	0.1	15.5	74.8	50.9	5.89*	5.89*	5.89*	5.89*
1292	1	0.32	0.08	-9.1	-0.1	-0.1	14.2	36.2	-37.0	5.45*	5.45*	5.89*	5.89*
1292	2	1.19	0.08	-5.8	-0.1	0.3	14.0	-61.8	59.9	5.45*	5.45*	5.45*	5.45*
1292	3	1.19	0.32	-5.9	-0.1	-0.3	15.7	-62.0	-59.9	5.45*	5.45*	5.45*	5.45*
1292	4	0.32	0.32	-9.1	0.0	0.1	15.6	36.2	37.0	5.45*	5.45*	5.89*	5.89*
1293	1	0.28	0.08	10.5	0.1	0.0	14.5	-26.4	-32.2	5.45*	5.45*	5.45*	5.45*
1293	2	1.06	0.08	11.5	0.0	-0.1	14.6	7.1	32.6	5.45*	5.45*	5.89*	5.89*
1293	3	1.06	0.32	11.5	0.0	0.1	15.5	7.1	-32.6	5.45*	5.48	5.89*	5.89*
1293	4	0.28	0.32	10.6	0.1	0.0	15.6	-26.3	32.2	5.45*	5.45*	5.45*	5.45*
1672	1	0.36	0.08	-3.7	-0.1	-0.1	-95.7	32.1	-23.5	5.45*	5.45*	5.89*	5.89*
1672	2	1.35	0.08	-10.6	0.4	1.8	-95.4	-47.6	29.7	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	-10.6	0.3	-1.8	-94.9	-41.1	-29.4	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	-3.7	-0.1	0.1	-94.3	32.0	23.4	5.45*	5.45*	5.89*	5.89*
1673	1	0.32	0.08	3.5	0.1	-0.1	-96.4	17.1	-17.0	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	0.1	-0.3	-0.4	-96.2	-26.7	22.1	5.45*	5.45*	5.45*	5.45*
1673	3	1.19	0.32	0.1	-0.3	0.3	-94.3	-28.5	-22.2	5.45*	5.45*	5.45*	5.45*
673	4	0.32	0.32	3.5	0.1	0.1	-93.9	17.2	16.9	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	-5.2	0.0	0.2	-96.6	-12.4	-16.2	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	-6.2	0.0	0.0	-96.6	3.1	14.4	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	-6.2	0.0	0.0	-93.8	3.0	-14.4	5.45*	5.45*	5.89*	5.89*
1674	4	0.28	0.32	-5.2	0.0	-0.2	-93.9	-11.9	16.2	5.45*	5.45*	5.45*	5.45*
1675	1	0.36	0.08	-3.2	-0.1	-0.1	-68.3	8.0	-6.4	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	-7.8	0.1	1.4	-68.1	-14.9	13.0	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	-7.1	0.7	-1.0	-73.6	-10.0	-13.1	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	-3.6	-0.2	0.0	-73.0	7.9	6.3	5.45*	5.45*	5.89*	5.89*
1676	1	0.32	0.08	-3.1	0.1	0.0	-69.2	4.8	-4.6	5.45*	5.45*	5.89*	5.89*
1676	2	1.19	0.08	-3.2	-0.1	-0.2	-68.8	-6.5	6.3	5.45*	5.45*	5.45*	5.45*
1676	3	1.19	0.32	-4.9	-0.1	0.4	-72.7	-7.9	-4.4	5.45*	5.45*	5.45*	5.45*
1676	4	0.32	0.32	0.8	0.0	0.0	-72.2	4.8	4.5	5.45*	5.45*	5.89*	5.89*
1677	1	0.28	0.08	-1.9	0.0	0.1	-69.4	-3.5	-4.8	5.45*	5.45*	5.45*	5.45*
1677	2	1.06	0.08	-2.4	0.0	0.0	-69.5	0.8	3.7	5.45*	5.45*	5.89*	5.89*
1677	3	1.06	0.32	-2.5	0.0	0.0	-72.0	0.7	-3.7	5.45*	5.45*	5.89*	5.89*
1677	4	0.28	0.32	-2.1	-0.1	-0.1	-72.1	-3.1	4.8	5.45*	5.45*	5.45*	5.45*
1678	1	0.36	0.08	-3.0	0.0	-0.1	-34.0	-6.4	-6.0	5.45*	5.45*	5.89*	5.89*
1678	2	1.35	0.08	-4.9	-0.3	0.9	-33.7	-6.5	8.4	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-7.9	0.6	-0.3	-42.0	-12.5	-8.4	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	-4.5	-0.1	-0.1	-41.5	-6.5	4.9	5.45*	5.45*	5.89*	5.89*

1679	1	0.32	0.08	-3.9	0.1	0.0	-34.7	3.7	-3.6	5.45*	5.45*	5.89*	5.89*
1679	2	1.19	0.08	-4.4	0.0	0.0	-34.4	-6.5	3.9	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	-3.8	-0.1	0.3	-41.0	-4.8	-4.0	5.45*	5.45*	5.45*	5.45*
1679	4	0.32	0.32	-4.2	0.0	0.0	-40.5	3.6	3.5	5.45*	5.45*	5.89*	5.89*
1680	1	0.28	0.08	4.1	0.0	0.1	-34.9	-2.3	-3.6	5.45*	5.45*	5.45*	5.45*
1680	2	1.06	0.08	3.9	0.0	0.0	-34.9	0.6	3.0	5.45*	5.45*	5.89*	5.89*
1680	3	1.06	0.32	4.0	0.0	0.0	-40.2	0.7	-3.0	5.45*	5.45*	5.89*	5.89*
1680	4	0.28	0.32	3.8	-0.1	0.0	-40.3	-2.8	3.6	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	-3.6	0.1	0.0	52.2	3.2	-1.3	5.89*	5.89*	5.89*	5.89*
1807	2	1.35	0.08	5.2	-1.0	-0.9	52.0	-2.1	-8.0	5.89*	5.89*	5.89*	5.89*
1807	3	1.35	0.32	6.5	0.2	1.9	40.6	-1.2	7.9	5.89*	5.89*	5.89*	5.89*
1807	4	0.36	0.32	-4.4	-0.1	-0.3	40.8	3.2	1.3	5.89*	5.89*	5.89*	5.89*
1808	1	0.32	0.08	-14.1	-0.1	0.0	52.2	0.7	-1.1	9.19	5.45*	5.45*	5.45*
1808	2	1.19	0.08	-9.7	0.3	0.4	52.3	-2.0	4.3	7.56	5.45*	5.45*	5.45*
1808	3	1.19	0.32	-9.1	0.2	0.0	41.6	-2.2	-4.3	6.50	5.45*	5.45*	5.45*
1808	4	0.32	0.32	-14.6	-0.2	-0.1	41.8	0.7	1.0	8.59	5.45*	5.45*	5.45*
1809	1	0.28	0.08	16.8	0.1	-0.1	52.3	-0.7	-0.1	5.45*	10.21	5.45*	5.45*
309	2	1.06	0.08	18.0	0.0	0.1	52.2	0.3	1.2	5.45*	10.67	5.89*	5.89*
309	3	1.06	0.32	18.1	0.0	-0.1	42.3	0.3	-1.2	5.45*	9.97	5.45*	5.45*
1809	4	0.28	0.32	16.4	-0.1	-0.3	42.2	-0.7	0.2	5.45*	9.34	5.45*	5.45*
1936	1	0.36	0.08	-2.9	0.2	0.3	146.5	-20.7	-11.4	11.27	9.72	5.89*	5.89*
1936	2	1.35	0.08	18.9	-1.3	-3.7	146.4	-62.0	-15.4	5.89*	17.75	5.89*	5.89*
1936	3	1.35	0.32	19.0	-1.2	3.8	146.7	24.2	15.4	5.89*	17.85	5.89*	5.89*
1936	4	0.36	0.32	-3.0	0.1	-0.3	146.8	19.0	11.4	11.35	9.69	5.89*	5.89*
1937	1	0.32	0.08	-25.8	-0.3	0.1	147.3	7.0	-8.4	20.68	5.45*	5.89*	5.89*
1937	2	1.19	0.08	-14.9	0.6	0.8	147.4	-2.3	20.2	16.23	5.89*	5.89*	5.89*
1937	3	1.19	0.32	-14.8	0.6	-0.8	147.9	-67.3	-20.2	16.21	5.89*	5.89*	5.89*
937	4	0.32	0.32	-25.6	-0.3	-0.2	148.1	7.9	8.4	20.76	5.45*	5.89*	5.89*
1938	1	0.28	0.08	30.9	0.1	-0.4	147.6	-9.3	-5.5	5.45*	22.63	5.45*	5.45*
1938	2	1.06	0.08	34.0	0.0	0.1	147.6	2.8	8.1	5.45*	23.80	5.89*	5.89*
1938	3	1.06	0.32	34.0	0.0	-0.1	148.7	0.9	-8.1	5.45*	23.89	5.89*	5.89*
1938	4	0.28	0.32	30.9	0.1	0.4	148.6	-2.4	5.5	5.45*	22.68	5.45*	5.45*
2065	1	0.36	0.08	-4.1	0.0	0.2	92.0	22.5	-13.4	7.31	5.89*	5.89*	5.89*
2065	2	1.35	0.08	11.5	-0.4	-2.6	91.8	-67.3	-7.0	5.89*	10.30	5.89*	5.89*
2065	3	1.35	0.32	10.6	-1.2	2.0	93.7	20.9	7.0	5.89*	10.77	5.89*	5.89*
2065	4	0.36	0.32	-2.5	0.1	-0.1	93.9	20.8	13.4	7.92	5.89*	5.89*	5.89*
066	1	0.32	0.08	-19.4	-0.2	0.1	92.7	8.7	-9.8	13.48	5.45*	5.89*	5.89*
066	2	1.19	0.08	-11.7	0.3	0.3	92.8	-4.5	20.1	10.46	5.89*	5.89*	5.89*
2066	3	1.19	0.32	-12.1	0.4	-0.6	94.4	-29.6	-20.2	11.43	5.89*	5.89*	5.89*
2066	4	0.32	0.32	-19.2	-0.1	-0.1	94.6	9.5	9.8	14.26	5.45*	5.89*	5.89*
2067	1	0.28	0.08	22.6	0.0	-0.3	83.0	-10.5	-7.3	5.45*	14.71	5.45*	5.45*
2067	2	1.06	0.08	24.9	0.0	0.1	83.0	3.0	9.1	5.45*	15.56	5.89*	5.89*
2067	3	1.06	0.32	24.8	0.0	0.0	95.0	1.1	-9.1	5.45*	16.43	5.89*	5.89*
2067	4	0.28	0.32	22.9	0.1	0.2	94.9	-3.4	7.3	5.45*	15.67	5.45*	5.45*
2194	1	0.36	0.08	-4.5	-0.1	0.1	13.1	36.4	-23.8	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	2.6	0.1	-0.9	12.9	-99.7	9.5	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	1.7	-0.8	0.4	20.8	13.5	-9.5	5.89*	5.89*	5.89*	5.89*
2194	4	0.36	0.32	-4.0	0.1	0.1	20.9	34.2	23.8	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	-11.0	-0.1	0.0	13.5	16.3	-17.3	5.45*	5.45*	5.89*	5.89*
2195	2	1.19	0.08	-7.4	0.0	0.0	13.5	-12.9	28.8	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	-7.9	0.1	-0.3	21.1	-45.2	-28.8	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	-10.7	0.0	0.0	21.3	17.4	17.3	5.60	5.45*	5.89*	5.89*
2196	1	0.28	0.08	12.2	0.0	-0.1	13.6	-16.8	-14.8	5.45*	5.60	5.45*	5.45*
2196	2	1.06	0.08	13.2	0.0	0.0	13.6	4.6	15.3	5.45*	6.00	5.89*	5.89*
2196	3	1.06	0.32	13.1	0.0	0.0	21.5	2.1	-15.3	5.45*	6.56	5.89*	5.89*
96	4	0.28	0.32	12.4	0.1	0.0	21.4	-7.8	14.8	5.45*	6.26	5.45*	5.45*
23	1	0.36	0.08	-3.3	0.0	0.1	16.1	57.7	-38.4	5.45*	5.45*	5.89*	5.89*
2323	2	1.35	0.08	3.7	-0.2	-0.9	16.0	-126.1	18.3	5.45*	5.45*	5.45*	5.45*
2323	3	1.35	0.32	3.3	-0.6	0.7	18.5	-13.5	-18.3	5.45*	5.45*	5.45*	5.45*
2323	4	0.36	0.32	-3.1	0.0	0.0	18.6	55.5	38.4	5.89*	5.89*	5.89*	5.89*
2324	1	0.32	0.08	-10.2	-0.1	0.0	16.6	26.7	-27.9	5.45*	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-6.7	0.0	0.2	16.5	-30.7	45.6	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	-6.9	0.0	-0.3	19.0	-62.8	-45.6	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	-10.1	-0.1	0.0	19.1	27.8	27.9	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	11.7	0.0	-0.1	16.7	-24.4	-24.1	5.45*	5.65	5.45*	5.45*
2325	2	1.06	0.08	12.7	0.0	0.0	16.7	6.6	24.6	5.45*	6.04	5.89*	5.89*
2325	3	1.06	0.32	12.7	0.0	0.0	19.3	4.2	-24.6	5.45*	6.22	5.89*	5.89*
2325	4	0.28	0.32	11.8	0.1	0.1	19.2	-15.3	24.1	5.45*	5.87	5.45*	5.45*
2452	1	0.36	0.08	-2.6	0.0	0.0	16.1	67.6	-45.9	5.89*	5.89*	5.89*	5.89*
2452	2	1.35	0.08	4.1	-0.9	-0.9	15.9	-83.6	22.5	5.45*	5.45*	5.45*	5.45*
2452	3	1.35	0.32	3.9	-0.6	0.8	17.0	-83.4	-22.5	5.45*	5.45*	5.45*	5.45*
2452	4	0.36	0.32	-2.5	0.1	0.0	17.1	67.6	45.9	5.89*	5.89*	5.89*	5.89*
2453	1	0.32	0.08	-9.5	-0.1	0.0	16.7	32.5	-33.4	5.45*	5.45*	5.89*	5.89*
2453	2	1.19	0.08	-6.1	0.0	0.3	16.6	-55.8	54.4	5.45*	5.45*	5.45*	5.45*
2453	3	1.19	0.32	-6.2	0.0	-0.3	17.4	-55.9	-54.3	5.45*	5.45*	5.45*	5.45*
2453	4	0.32	0.32	-9.4	-0.1	0.0	17.4	32.5	33.4	5.45*	5.45*	5.89*	5.89*
2454	1	0.28	0.08	11.0	0.1	-0.1	16.9	-23.8	-28.9	5.45*	5.45*	5.45*	5.45*
2454	2	1.06	0.08	12.0	0.0	-0.1	17.0	6.4	29.4	5.45*	5.79	5.89*	5.89*
2454	3	1.06	0.32	12.0	0.0	0.0	17.5	6.4	-29.4	5.45*	5.81	5.89*	5.89*
2454	4	0.28	0.32	11.0	0.1	0.1	17.5	-23.7	28.9	5.45*	5.46	5.45*	5.45*
2581	1	0.36	0.08	-4.0	-0.1	-0.1	-82.8	32.5	-23.5	5.45*	5.45*	5.89*	5.89*
2581	2	1.35	0.08	-8.8	0.5	1.4	-82.4	-43.9	25.7	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	-9.3	0.0	-1.6	-81.4	-44.1	-25.8	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-3.7	0.0	0.2	-80.7	32.5	23.4	5.45*	5.45*	5.89*	5.89*
2582	1	0.32	0.08	1.7	0.1	-0.1	-83.5	17.1	-17.0	5.45*	5.45*	5.89*	5.89*
2582	2	1.19	0.08	-0.7	-0.3	-0.3	-83.3	-27.8	23.2	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-1.0	-0.3	0.2	-80.6	-27.7	-23.4	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	1.9	0.1	0.1	-80.1	17.1	16.9	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	-3.1	0.0	0.2	-83.8	-12.1	-15.9	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	-3.8	0.0	-0.1	-83.8	3.1	14.5	5.45*	5.45*	5.89*	5.89*
2583	3	1.06	0.32	-3.8	0.0	0.1	-80.0	3.1	-14.5	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	-3.0	0.0	-0.2	-80.0	-12.2	15.9	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-1.0	0.1	-0.2	-21.2	24.9	-17.6	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	-1.1	-0.8	0.4	-20.3	-31.6	14.6	5.45*	5.45*	5.45*	5.45*
2962	3	1.35	0.32	0.5	0.6	0.5	-32.8	-33.0	-14.8	5.45*	5.45*	5.45*	5.45*
2962	4	0.36	0.32	-2.0	-0.1	-0.1	-31.7	24.8	17.3	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	-2.4	0.0	-0.1	-22.8	12.6	-12.8	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-2.5	0.0	0.3	-22.0	-21.1	18.6	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-1.7	-0.1	0.2	-30.6	-20.7	-18.9	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-2.9	-0.1	0.0	-29.7	12.6	12.5	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	3.1	0.1	0.1	-23.1	-9.0	-11.4	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	3.0	0.0	0.0	-23.1	2.4	11.0	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	3.1	0.0	0.0	-29.2	2.4	-11.0	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	2.7	-0.1	0.1	-29.2	-9.1	11.5	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.5	0.1	0.0	15.9	11.9	-7.9	5.89*	5.89*	5.89*	5.89*
2965	2	1.35	0.08	2.5	-0.7	-0.5	16.6	-9.6	0.3	5.89*	5.89*	5.89*	5.89*
2965	3	1.35	0.32	3.5	0.1	1.0	8.7	-18.2	-0.5	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	-2.2	-0.1	-0.1	9.7	12.1	7.7	5.45*	5.45*	5.89*	5.89*
2966	1	0.32	0.08	-8.8	0.0	0.0	14.7	5.5	-5.8	5.45*	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-6.3	0.2	0.3	15.4	-10.9	10.2	5.45*	5.45*	5.45*	5.45*
2966	3	1.19	0.32	-5.8	0.1	0.0	10.8	-8.4	-10.4	5.45*	5.45*	5.45*	5.45*
2966	4	0.32	0.32	-9.1	-0.1	-0.1	11.7	5.4	5.6	5.45*	5.45*	5.89*	5.89*
2967	1	0.28	0.08	10.4	0.1	-0.1	14.5	-3.7	-4.6	5.45*	5.45*	5.45*	5.45*
2967	2	1.06	0.08	11.1	0.0	0.0	14.5	1.0	5.1	5.45*	5.45*	5.89*	5.89*
2967	3	1.06	0.32	11.2	0.0	0.0	12.2	1.2	-5.1	5.45*	5.45*	5.89*	5.89*
2967	4	0.28	0.32	10.2	0.0	0.1	12.1	-4.4	4.6	5.45*	5.45*	5.45*	5.45*

2968	1	0.36	0.08	-3.4	0.1	0.0	50.5	25.6	-17.0	5.89*	5.89*	5.89*	5.89*
2968	2	1.35	0.08	6.0	-0.9	-1.2	51.2	-26.1	2.7	5.89*	5.97	5.89*	5.89*
2968	3	1.35	0.32	6.7	-0.4	1.6	42.2	-34.5	-2.9	5.89*	5.89*	5.89*	5.89*
2968	4	0.36	0.32	-3.9	0.0	-0.1	43.1	25.8	16.8	5.89*	5.89*	5.89*	5.89*
2969	1	0.32	0.08	-13.9	-0.1	0.0	69.4	11.9	-12.4	8.92	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-9.2	0.2	0.5	50.2	-22.1	21.6	7.22	5.45*	5.45*	5.45*
2969	3	1.19	0.32	-8.9	0.1	-0.2	44.4	-19.6	-21.9	6.65	5.45*	5.45*	5.45*
2969	4	0.32	0.32	-14.2	-0.1	0.0	45.4	11.6	12.2	8.71	5.45*	5.89*	5.89*
2970	1	0.28	0.08	16.4	0.1	-0.1	49.2	-8.4	-10.2	5.45*	9.86	5.45*	5.45*
2970	2	1.06	0.08	17.8	0.0	0.0	49.1	2.3	11.1	5.45*	10.36	5.89*	5.89*
2970	3	1.06	0.32	17.8	0.0	0.0	46.1	2.5	-11.1	5.45*	10.15	5.89*	5.89*
2970	4	0.28	0.32	16.3	0.0	0.1	45.9	-9.1	10.2	5.45*	9.56	5.45*	5.45*
3097	1	0.36	0.08	-3.1	0.1	0.1	88.6	22.6	-14.1	7.36	5.89*	5.89*	5.89*
3097	2	1.35	0.08	11.7	-0.9	-2.4	89.2	-24.0	-6.2	5.89*	10.89	5.89*	5.89*
3097	3	1.35	0.32	11.7	-0.9	2.4	84.3	-24.8	6.0	5.89*	10.56	5.89*	5.89*
3097	4	0.36	0.32	-3.1	0.1	-0.2	85.1	22.6	13.9	7.13	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-18.5	-0.1	0.1	87.9	9.6	-10.4	13.52	5.45*	5.89*	5.89*
3098	2	1.19	0.08	-11.1	0.3	0.6	88.7	-17.9	20.7	10.64	5.89*	5.89*	5.89*
3098	3	1.19	0.32	-11.1	0.3	-0.5	86.4	-17.7	-20.9	10.48	5.89*	5.89*	5.89*
3098	4	0.32	0.32	-18.5	-0.1	-0.1	87.3	9.6	10.2	13.48	5.45*	5.89*	5.89*
3099	1	0.28	0.08	22.0	0.1	-0.2	87.9	-7.2	-7.8	5.45*	14.82	5.45*	5.45*
3099	2	1.06	0.08	24.1	0.0	0.0	87.8	2.1	9.5	5.45*	15.61	5.89*	5.89*
3099	3	1.06	0.32	24.1	0.0	0.0	88.0	2.1	-9.5	5.45*	15.63	5.89*	5.89*
3099	4	0.28	0.32	22.0	0.1	0.2	87.9	-7.3	7.8	5.45*	14.82	5.45*	5.45*
3226	1	0.36	0.08	-2.9	0.0	0.2	66.0	25.2	-16.3	5.89*	5.89*	5.89*	5.89*
3226	2	1.35	0.08	10.9	-0.3	-2.5	66.5	-28.9	-1.5	5.89*	9.00	5.89*	5.89*
3226	3	1.35	0.32	9.6	-1.4	1.7	72.0	-28.6	1.3	5.89*	8.95	5.89*	5.89*
3226	4	0.36	0.32	-2.1	0.2	0.0	73.8	25.3	16.1	5.94	5.89*	5.89*	5.89*
3227	1	0.32	0.08	-16.0	-0.2	0.1	65.7	11.2	-11.9	10.92	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-9.1	0.2	0.3	66.3	-20.2	22.1	8.27	5.89*	5.89*	5.89*
3227	3	1.19	0.32	-9.7	0.3	-0.7	74.7	-20.3	-22.3	9.10	5.89*	5.89*	5.89*
3227	4	0.32	0.32	-15.6	-0.1	0.0	75.4	11.2	11.8	11.49	5.45*	5.89*	5.89*
3228	1	0.28	0.08	18.6	0.0	-0.3	65.7	-8.4	-9.4	5.45*	11.90	5.45*	5.45*
3228	2	1.06	0.08	20.6	0.0	0.0	65.7	2.4	10.8	5.45*	12.67	5.89*	5.89*
3228	3	1.06	0.32	20.6	0.0	0.0	76.0	2.4	-10.8	5.45*	13.40	5.89*	5.89*
3228	4	0.28	0.32	18.9	0.1	0.1	75.9	-8.4	9.5	5.45*	12.77	5.45*	5.45*
3355	1	0.36	0.08	-3.7	-0.2	0.1	-31.8	23.4	-16.3	5.45*	5.45*	5.89*	5.89*
3355	2	1.35	0.08	-1.6	0.5	-0.1	-31.3	-32.0	12.3	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	-2.6	-0.4	-0.5	-22.5	-28.0	-12.4	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.1	0.0	0.1	-21.8	23.3	16.2	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	-4.9	-0.1	0.0	-32.2	11.7	-11.9	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-3.8	-0.1	-0.2	-31.9	-19.0	17.8	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-4.3	0.0	-0.1	-21.4	-20.1	-17.9	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	-4.5	0.0	0.0	-20.9	11.7	11.8	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	4.9	-0.1	-0.1	-32.3	-8.6	-10.6	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	5.2	0.0	0.0	-32.4	2.2	10.3	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	5.2	0.0	0.0	-20.6	2.2	-10.3	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	5.1	0.0	-0.1	-20.7	-8.3	10.6	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	0.4	0.2	0.1	-263.9	8.9	-12.9	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	0.8	2.3	3.1	-339.5	-369.1	30.4	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	1.7	2.5	3.2	-326.9	-366.5	12.8	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	1.3	0.4	0.2	-251.3	11.4	-30.5	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-5.6	0.3	0.8	-315.2	-5.6	-27.8	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-5.9	-1.2	-0.1	-294.3	98.9	22.2	2.72*	2.72*	3.68	3.42
3485	3	1.19	0.16	-6.2	-1.3	-0.2	-277.7	102.2	27.7	2.72*	2.72*	3.82	3.51
3485	4	0.32	0.16	-5.9	0.2	0.7	-298.6	-2.3	-22.3	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-10.4	-0.1	0.3	-301.7	5.1	-26.6	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-10.4	-0.2	0.0	-310.6	-29.3	28.6	2.72*	2.72*	2.72*	2.72*
3486	3	1.06	0.16	-10.5	-0.2	0.0	-290.1	-25.2	26.6	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-10.5	-0.2	0.3	-283.2	9.2	-28.6	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 5

hipo 5 p. propio (proceso hipo-5) + pret. (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Cm = 1.5 Cn = 1.5

ELEM.	P.	X	Y	Nx	Ny	Nxy	Mx	My	Mxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	-2.8	0.1	0.0	35.3	46.6	-31.9	5.89*	5.89*	5.89*	5.89*
379	2	1.35	0.08	5.2	-0.7	-1.1	34.9	-1.8	11.6	5.89*	5.89*	5.89*	5.89*
379	3	1.35	0.32	5.6	-0.3	1.3	28.6	-113.9	-11.6	5.45*	5.45*	5.45*	5.45*
379	4	0.36	0.32	-3.1	0.0	-0.1	28.5	48.8	32.0	5.89*	5.89*	5.89*	5.89*
380	1	0.32	0.08	-11.7	-0.1	0.0	36.3	13.1	-23.2	7.09	5.45*	5.89*	5.89*
380	2	1.19	0.08	-7.6	0.1	0.4	35.9	-55.1	39.2	5.53	5.45*	5.45*	5.45*
380	3	1.19	0.32	-7.4	0.0	-0.2	28.7	-23.1	-39.1	5.45*	5.45*	5.45*	5.45*
380	4	0.32	0.32	-11.8	-0.1	0.0	28.4	22.0	23.3	6.55	5.45*	5.89*	5.89*
381	1	0.28	0.08	13.7	0.1	-0.1	36.6	-12.0	-19.9	5.45*	7.89	5.45*	5.45*
381	2	1.06	0.08	14.9	0.0	0.0	36.8	3.3	20.6	5.45*	8.35	5.89*	5.89*
381	3	1.06	0.32	14.9	0.0	0.0	28.3	5.7	-20.7	5.45*	7.73	5.89*	5.89*
381	4	0.28	0.32	13.6	0.0	0.1	28.4	-21.1	19.8	5.45*	7.25	5.45*	5.45*
382	1	0.36	0.08	-1.4	0.1	0.2	110.5	31.4	-20.4	8.18	7.69	5.89*	5.89*
382	2	1.35	0.08	15.3	-1.2	-2.8	110.0	20.3	-5.8	5.89*	13.78	5.89*	5.89*
382	3	1.35	0.32	15.9	-0.6	3.3	99.2	-92.1	5.9	5.89*	13.28	5.89*	5.89*
382	4	0.36	0.32	-1.7	0.1	-0.3	99.0	33.5	20.5	7.53	6.66	5.89*	5.89*
383	1	0.32	0.08	-19.3	-0.2	0.1	111.9	14.6	-14.9	15.63	5.45*	5.89*	5.89*
383	2	1.19	0.08	-11.0	0.5	0.8	111.4	-41.8	29.4	12.16	5.89*	5.89*	5.89*
383	3	1.19	0.32	-10.7	0.4	-0.5	99.6	-9.8	-29.2	11.23	5.89*	5.89*	5.89*
383	4	0.32	0.32	-19.5	-0.2	-0.1	99.3	13.5	15.1	14.75	5.45*	5.89*	5.89*
384	1	0.28	0.08	23.5	0.1	-0.3	112.5	-6.1	-11.7	5.45*	17.22	5.45*	5.45*
384	2	1.06	0.08	25.9	0.0	0.0	112.7	1.9	13.7	5.45*	18.14	5.89*	5.89*
384	3	1.06	0.32	25.9	0.0	-0.1	99.2	4.3	-13.8	5.45*	17.15	5.89*	5.89*
384	4	0.28	0.32	23.4	0.0	0.4	99.4	-15.1	11.6	5.45*	16.20	5.45*	5.45*
385	1	0.36	0.08	-0.6	0.1	0.4	156.7	27.4	-16.9	11.07	11.48	5.89*	5.89*
385	2	1.35	0.08	22.7	-1.2	-4.4	156.2	14.0	-14.3	5.89*	20.00	5.89*	5.89*
385	3	1.35	0.32	22.8	-1.1	4.4	158.1	-71.7	14.4	5.89*	20.15	5.89*	5.89*
385	4	0.36	0.32	-0.6	0.1	-0.4	157.9	29.1	17.0	11.15	11.56	5.89*	5.89*
386	1	0.32	0.08	-25.1	-0.3	0.2	158.6	11.8	-12.4	21.14	5.89*	5.89*	5.89*
386	2	1.19	0.08	-13.4	0.7	0.8	158.1	-34.1	27.3	16.35	5.94	5.89*	5.89*
386	3	1.19	0.32	-13.4	0.7	-0.8	158.6	-9.7	-27.2	16.39	5.98	5.89*	5.89*
386	4	0.32	0.32	-25.1	-0.3	-0.2	158.2	10.9	12.5	21.11	5.89*	5.89*	5.89*
387	1	0.28	0.08	30.6	0.0	-0.5	159.3	-5.3	-6.9	5.45*	23.38	5.45*	5.45*
387	2	1.06	0.08	34.0	0.0	0.1	159.6	1.7	11.7	5.45*	24.67	5.89*	5.89*
387	3	1.06	0.32	34.0	0.0	-0.1	158.2	3.6	-11.8	5.45*	24.57	5.89*	5.89*
387	4	0.28	0.32	30.6	0.0	0.5	158.4	-12.2	8.8	5.45*	23.31	5.45*	5.45*
514	1	0.36	0.08	-3.3	0.0	0.1	37.0	15.2	-10.2	5.89*	5.89*	5.89*	5.89*
514	2	1.35	0.08	6.4	-0.3	-1.6	36.8	24.1	-1.5	5.45*	5.45*	5.89*	5.89*
514	3	1.35	0.32	5.9	-0.8	1.1	45.6	-60.2	1.5	5.89*	5.89*	5.89*	5.89*
514	4	0.36	0.32	-2.9	0.1	0.0	45.7	16.8	10.2	5.89*	5.89*	5.89*	5.89*
515	1	0.32	0.08	-12.9	-0.1	0.1	38.2	-7.5	-7.4	7.70	5.45*	5.89*	5.89*
515	2	1.19	0.08	-8.0	0.2	0.2	37.7	-24.8	14.2	5.82	5.45*	5.45*	5.45*
515	3	1.19	0.32	-8.3	0.2	-0.4	45.9	-0.8	-14.1	6.56	5.45*	5.45*	5.45*
515	4	0.32	0.32	-12.7	-0.1	0.0	45.5	6.6	7.5	8.16	5.45*	5.89*	5.89*
516	1	0.28	0.08	14.9	0.0	-0.2	38.7	-1.9	-5.9	5.45*	8.48	5.45*	5.45*
516	2	1.06	0.08	16.3	0.0	0.0	38.9	0.6	6.8	5.45*	9.04	5.89*	5.89*
516	3	1.06	0.32	16.1	0.0	0.0	45.3	2.4	-6.8	5.45*	9.50	5.89*	5.89*
516	4	0.28	0.32	15.0	0.1	0.1	45.5	-2.7	5.9	5.45*	9.04	5.45*	5.45*
643	1	0.36	0.08	-4.4	-0.1	0.0	-34.1	15.1	-10.8	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-3.4	0.3	0.3	-34.3	-19.7	10.8	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-4.0	-0.2	-0.6	-30.3	-20.5	-10.8	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	-4.0	0.0	0.1	-30.2	15.1	10.8	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	-4.8	0.0	0.0	-33.2	7.8	-7.7	5.45*	5.45*	5.89*	5.89*
644	2	1.19	0.08	-4.2	-0.1	-0.2	-33.8	-12.9	11.1	5.45*	5.45*	5.45*	5.45*
644	3	1.19	0.32	-4.6	0.0	0.0	-30.9	-12.7	-11.0	5.45*	5.45*	5.45*	5.45*
644	4	0.32	0.32	-4.5	0.0	0.0	-30.8	7.8	7.9	5.45*	5.45*	5.89*	5.89*
645	1	0.28	0.08	4.6	0.0	0.0	-32.9	-5.5	-7.3	5.45*	5.45*	5.45*	5.45*
645	2	1.06	0.08	4.8	0.0	0.0	-32.7	1.4	6.7	5.45*	5.45*	5.89*	5.89*
645	3	1.06	0.32	4.8	0.0	0.0	-31.2	1.4	-6.7	5.45*	5.45*	5.89*	5.89*
645	4	0.28	0.32	4.8	0.0	-0.1	-31.0	-5.6	7.2	5.45*	5.45*	5.45*	5.45*
772	1	0.36	0.08	-3.8	-0.1	0.0	-52.6	14.7	-10.8	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-5.6	0.3	0.8	-52.8	-19.9	14.2	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-5.8	0.1	-0.9	-53.2	-21.1	-14.2	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	-3.6	-0.1	0.1	-53.1	14.7	10.8	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	-1.6	0.0	0.0	-51.9	8.0	-7.8	5.45*	5.45*	5.89*	5.89*
773	2	1.19	0.08	-2.5	-0.1	-0.2	-52.5	-12.9	10.1	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	-2.6	-0.1	0.2	-53.2	-12.5	-10.0	5.45*	5.45*	5.45*	5.45*
773	4	0.32	0.32	-1.6	0.1	0.0	-53.7	7.9	7.9	5.45*	5.45*	5.89*	5.89*
774	1	0.28	0.08	1.1	0.0	0.1	-51.6	-5.6	-7.6	5.45*	5.45*	5.45*	5.45*
774	2	1.06	0.08	0.8	0.0	0.0	-51.4	1.4	6.6	5.45*	5.45*	5.89*	5.89*
774	3	1.06	0.32	0.8	0.0	0.0	-54.1	1.4	-6.7	5.45*	5.45*	5.89*	5.89*
774	4	0.28	0.32	1.1	0.0	-0.1	-53.9	-5.7	7.5	5.45*	5.45*	5.45*	5.45*
901	1	0.36	0.08	-2.0	0.0	0.0	-33.5	13.7	-9.9	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-2.6	0.0	0.3	-33.6	-17.6	11.1	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-2.7	0.0	-0.3	-37.0	-19.6	-11.1	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	-2.8	0.0	0.0	-36.8	13.7	9.9	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	-2.9	0.0	0.0	-32.7	7.2	-7.1	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	-2.8	-0.1	0.0	-33.3	-12.0	9.8	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	-2.8	-0.1	0.1	-36.9	-11.4	-9.7	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	-2.9	0.0	0.0	-37.3	7.2	7.2	5.45*	5.45*	5.89*	5.89*
903	1	0.28	0.08	2.9	0.0	0.1	-32.4	-5.0	-6.8	5.45*	5.45*	5.45*	5.45*
903	2	1.06	0.08	2.9	0.0	0.0	-32.2	1.3	6.1	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	2.9	0.0	0.0	-37.7	1.3	-6.2	5.45*	5.45*	5.89*	5.89*
903	4	0.28	0.32	2.9	0.0	0.0	-37.6	-5.2	6.7	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-1.6	0.0	0.0	-2.0	16.2	-11.1	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	-1.5	-0.2	-0.6	-2.2	-20.9	6.8	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	-2.4	-0.3	0.6	-4.6	-19.9	-6.8	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-1.5	0.0	0.0	-4.5	16.2	11.1	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	-5.6	-0.1	0.0	-1.1	7.9	-8.0	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	-3.6	0.1	0.1	-1.7	-13.3	12.8	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	-4.7	0.1	-0.1	-4.4	-13.6	-12.7	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	-5.6	0.0	0.0	-4.9	7.9	8.2	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	6.8	0.0	0.0	-0.7	-5.8	-7.1	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	7.1	0.0	0.0	-0.5	1.6	7.1	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	7.1	0.0	0.0	-5.2	1.5	-7.1	5.45*	5.45*	5.89*	5.89*
1032	4	0.28	0.32	6.8	0.0	0.1	-5.0	-5.7	7.1	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-1.8	-0.1	0.1	-28.9	30.0	-21.0	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	-1.4	0.3	-0.6	-29.1	-40.5	16.9	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	-2.2	-0.7	-0.1	-16.7	-37.3	-16.9	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	-0.6	0.1	0.1	-16.6	30.0	21.0	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	-2.8	-0.1	0.0	-27.8	15.1	-15.2	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	-1.5	-0.1	-0.1	-28.4	-24.8	22.9	5.45*	5.45*	5.45*	5.45*

1160	3	1.19	0.32	-2.8	0.0	-0.2	-16.9	-25.7	-22.8	5.45*	5.45*	5.45*	5.45*	1679	1	0.32	0.08	-18.1	-0.2	0.1	87.4	6.2	-6.8	13.34	5.45*	5.89*	5.89*
1160	4	0.32	0.32	-2.4	0.0	0.0	-17.4	15.1	15.3	5.45*	5.45*	5.89*	5.89*	1679	2	1.19	0.08	-18.8	0.4	0.5	87.8	-12.4	14.5	10.41	5.89*	5.89*	5.89*
1161	1	0.28	0.08	2.8	0.0	-0.1	-27.4	-11.0	-13.8	5.45*	5.45*	5.45*	5.45*	1679	3	1.19	0.32	-18.7	0.4	-0.5	87.5	-11.1	-14.6	10.39	5.89*	5.89*	5.89*
1161	2	1.06	0.08	3.2	0.0	0.0	-27.1	2.9	13.2	5.45*	5.45*	5.89*	5.89*	1679	4	0.32	0.32	-18.2	-0.2	-0.1	88.0	6.1	6.7	13.40	5.45*	5.89*	5.89*
1161	3	1.06	0.32	3.1	0.0	0.0	-17.9	2.8	-13.3	5.45*	5.45*	5.89*	5.89*	1680	1	0.28	0.08	21.6	0.1	-0.3	87.5	-4.5	-4.8	5.45*	14.66	5.45*	5.45*
1161	4	0.28	0.32	3.0	0.1	-0.1	-17.7	-10.8	13.7	5.45*	5.45*	5.45*	5.45*	1680	2	1.06	0.08	23.7	0.0	0.0	87.5	1.4	6.3	5.45*	15.46	5.89*	5.89*
1288	1	0.36	0.04	1.1	0.4	0.7	-292.0	-1.0	-6.3	2.72*	2.72*	2.72*	2.72*	1680	3	1.06	0.32	23.7	0.0	0.0	88.5	1.5	-6.3	5.45*	15.53	5.89*	5.89*
1288	2	1.35	0.04	1.4	1.9	-2.1	-286.7	25.3	5.0	2.72*	2.72*	2.94*	2.94*	1680	4	0.28	0.32	21.6	0.0	0.3	88.5	-4.9	4.8	5.45*	14.72	5.45*	5.45*
1288	3	1.35	0.16	0.6	1.7	-2.0	-283.4	25.9	6.2	2.72*	2.72*	2.94*	2.94*	1807	1	0.36	0.08	-4.0	-0.1	0.2	22.7	10.3	-6.5	5.45*	5.45*	5.89*	5.89*
1288	4	0.36	0.16	0.3	0.2	0.8	-288.7	-0.3	-5.1	2.72*	2.72*	2.72*	2.72*	1807	2	1.35	0.08	4.0	-0.1	-1.1	22.6	-13.3	-1.9	5.45*	5.45*	5.45*	5.45*
1289	1	0.32	0.04	-5.8	0.2	-0.1	-290.0	-0.1	-5.8	2.72*	2.72*	2.72*	2.72*	1807	3	1.35	0.32	3.5	-0.6	0.7	30.7	-9.4	1.8	5.89*	5.89*	5.89*	5.89*
1289	2	1.19	0.04	-6.0	-1.1	0.4	-291.5	-7.5	6.2	2.72*	2.72*	2.72*	2.72*	1807	4	0.36	0.32	-3.6	0.0	-0.1	30.8	10.2	6.5	5.89*	5.89*	5.89*	5.89*
1289	3	1.19	0.16	-5.9	-1.0	0.3	-287.5	-6.7	5.8	2.72*	2.72*	2.72*	2.72*	1808	1	0.32	0.08	-11.7	-0.1	0.1	23.1	4.4	-4.8	6.14	5.45*	5.89*	5.89*
1289	4	0.32	0.16	-5.6	0.2	-0.1	-286.0	0.7	-6.2	2.72*	2.72*	2.72*	2.72*	1808	2	1.19	0.08	-7.7	0.2	0.0	23.2	-7.6	9.2	5.45*	5.45*	5.45*	5.45*
1290	1	0.28	0.04	-10.3	-0.1	0.0	-292.0	-1.0	-6.9	2.72*	2.72*	2.72*	2.72*	1808	3	1.19	0.32	-8.0	0.2	-0.3	31.1	-8.2	-9.3	5.45*	5.45*	5.45*	5.45*
1290	2	1.06	0.04	-10.3	-0.2	-0.1	-291.5	1.4	6.7	2.72*	2.72*	2.72*	2.72*	1808	4	0.32	0.32	-11.5	-0.1	-0.1	31.4	4.5	4.7	6.68	5.45*	5.89*	5.89*
1290	3	1.06	0.16	-10.4	-0.2	-0.1	-286.4	2.4	6.9	2.72*	2.72*	2.94*	2.94*	1809	1	0.28	0.08	13.3	0.0	-0.2	23.2	-3.5	-3.7	5.45*	6.74	5.45*	5.45*
70	4	0.28	0.16	-10.4	-0.1	0.0	-286.9	0.0	-6.8	2.72*	2.72*	2.72*	2.72*	1809	2	1.06	0.08	14.5	0.0	0.1	23.1	1.0	4.3	5.45*	7.19	5.89*	5.89*
1291	1	0.36	0.08	-2.7	0.1	0.0	26.6	62.8	-43.2	5.89*	5.89*	5.89*	5.89*	309	3	1.06	0.32	14.4	0.0	0.0	31.7	0.9	-4.3	5.45*	7.80	5.89*	5.89*
1291	2	1.35	0.08	5.0	-0.7	-1.0	26.2	-78.2	19.9	5.45*	5.45*	5.45*	5.45*	1809	4	0.28	0.32	13.4	0.0	0.1	31.6	-3.2	3.7	5.45*	7.42	5.45*	5.45*
1291	3	1.35	0.32	5.2	-0.5	1.2	27.0	-78.9	-19.9	5.45*	5.45*	5.45*	5.45*	1936	1	0.36	0.08	-4.3	-0.1	0.1	-21.4	23.8	-15.9	5.45*	5.45*	5.89*	5.89*
1291	4	0.36	0.32	-2.8	0.1	0.0	26.9	63.8	43.2	5.89*	5.89*	5.89*	5.89*	1936	2	1.35	0.08	-1.6	0.2	-0.1	-21.6	-72.9	11.3	5.45*	5.45*	5.45*	5.45*
1292	1	0.32	0.08	-10.8	-0.1	0.0	27.4	30.6	-31.4	6.11	5.45*	5.89*	5.89*	1936	3	1.35	0.32	-2.2	-0.3	-0.3	-15.3	14.4	-11.3	5.45*	5.45*	5.89*	5.89*
1292	2	1.19	0.08	-7.0	0.0	0.4	27.1	-52.8	51.6	5.45*	5.45*	5.45*	5.45*	1936	4	0.36	0.32	-3.9	0.0	0.1	-15.1	22.1	15.9	5.45*	5.45*	5.89*	5.89*
1292	3	1.19	0.32	-6.9	0.0	-0.3	27.2	-52.5	-51.6	5.45*	5.45*	5.45*	5.45*	1937	1	0.32	0.08	-6.4	0.0	0.0	-21.3	10.9	-11.6	5.45*	5.45*	5.89*	5.89*
1292	4	0.32	0.32	-10.9	-0.1	0.0	27.0	30.6	31.5	6.11	5.45*	5.89*	5.89*	1937	2	1.19	0.08	-5.0	-0.1	-0.1	-21.2	-6.7	17.7	5.45*	5.45*	5.45*	5.45*
1293	1	0.28	0.08	12.7	0.1	-0.1	27.7	-22.3	-27.1	5.45*	6.84	5.45*	5.45*	1937	3	1.19	0.32	-5.3	0.0	-0.1	-15.0	-11.6	-17.7	5.45*	5.45*	5.45*	5.45*
1293	2	1.06	0.08	13.8	0.0	0.0	27.9	6.0	27.8	5.45*	7.28	5.89*	5.89*	1937	4	0.32	0.32	-6.2	0.0	0.0	-14.8	11.8	11.5	5.45*	5.45*	5.89*	5.89*
1293	3	1.06	0.32	13.8	0.0	0.1	26.9	6.1	-27.8	5.45*	7.21	5.89*	5.89*	1938	1	0.28	0.08	6.7	0.0	0.0	-21.3	-11.7	-10.3	5.45*	5.45*	5.45*	5.45*
1293	4	0.28	0.32	12.6	0.1	0.1	27.0	-22.4	27.1	5.45*	6.77	5.45*	5.45*	1938	2	1.06	0.08	7.0	0.0	0.0	-21.3	3.1	10.1	5.45*	5.45*	5.89*	5.89*
1672	1	0.36	0.08	-3.5	0.0	-0.1	-47.4	28.4	-28.3	5.45*	5.45*	5.89*	5.89*	1938	3	1.06	0.32	7.0	0.0	0.0	-14.6	1.2	-10.1	5.45*	5.45*	5.89*	5.89*
1672	2	1.35	0.08	-5.5	-0.2	1.0	-47.1	-40.5	19.9	5.45*	5.45*	5.45*	5.45*	1938	4	0.28	0.32	6.8	0.0	0.0	-14.7	-4.7	10.3	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	-4.8	0.4	-0.5	-53.0	-34.9	-20.1	5.45*	5.45*	5.45*	5.45*	2065	1	0.36	0.08	-3.9	-0.1	0.0	-39.7	25.9	-24.5	5.45*	5.45*	5.89*	5.89*
1672	4	0.36	0.32	-4.0	-0.1	0.0	-52.4	28.3	20.1	5.45*	5.45*	5.89*	5.89*	2065	2	1.35	0.08	-3.9	0.2	0.5	-39.8	-88.8	19.3	5.45*	5.45*	5.45*	5.45*
1673	1	0.32	0.08	-2.0	0.1	0.0	-48.0	14.6	-14.7	5.45*	5.45*	5.89*	5.89*	2065	3	1.35	0.32	-4.1	-0.1	-0.6	-36.2	-1.7	-19.3	5.45*	5.45*	5.45*	5.45*
1673	2	1.19	0.08	-3.0	-0.1	-0.1	-47.8	-23.2	20.7	5.45*	5.45*	5.45*	5.45*	2065	4	0.36	0.32	-3.8	0.0	0.1	-36.1	34.2	24.5	5.45*	5.45*	5.89*	5.89*
73	3	1.19	0.32	-2.7	-0.2	0.3	-52.0	-24.8	-20.9	5.45*	5.45*	5.45*	5.45*	2066	1	0.32	0.08	-3.6	0.0	0.0	-39.6	17.2	-17.8	5.45*	5.45*	5.89*	5.89*
673	4	0.32	0.32	-2.3	0.0	0.0	-51.5	14.7	14.6	5.45*	5.45*	5.89*	5.89*	166	2	1.19	0.08	-3.6	-0.1	-0.1	-39.6	-17.0	26.7	5.45*	5.45*	5.45*	5.45*
1674	1	0.28	0.08	1.8	0.0	0.1	-48.2	-10.7	-13.5	5.45*	5.45*	5.45*	5.45*	2066	3	1.19	0.32	-3.7	-0.1	0.1	-36.0	-41.8	-26.7	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	1.5	0.0	0.0	-48.2	2.8	12.6	5.45*	5.45*	5.89*	5.89*	2066	4	0.32	0.32	-3.5	0.0	0.0	-35.9	18.8	17.8	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	1.6	0.0	0.0	-51.3	2.6	-12.6	5.45*	5.45*	5.89*	5.89*	2067	1	0.28	0.08	3.4	0.0	0.0	-39.7	-16.2	-16.0	5.45*	5.45*	5.45*	5.45*
1674	4	0.28	0.32	1.6	0.0	-0.1	-51.4	-10.2	13.6	5.45*	5.45*	5.45*	5.45*	2067	2	1.06	0.08	3.4	0.0	0.0	-39.7	4.3	19.4	5.45*	5.45*	5.89*	5.89*
1675	1	0.36	0.08	-2.3	0.1	0.0	37.4	5.4	-3.0	5.89*	5.89*	5.89*	5.89*	2067	3	1.06	0.32	3.4	0.0	0.0	-39.7	2.4	-19.4	5.45*	5.45*	5.89*	5.89*
1675	2	1.35	0.08	4.8	-0.9	-0.8	37.6	-7.1	-5.2	5.89*	5.89*	5.89*	5.89*	2067	4	0.28	0.32	3.5	0.0	-0.1	-35.8	-9.2	16.0	5.45*	5.45*	5.45*	5.45*
1675	3	1.35	0.32	6.0	0.1	1.6	25.4	-2.6	5.1	5.45*	5.45*	5.45*	5.45*	2194	1	0.36	0.08	-3.4	0.0	-0.1	-34.4	48.4	-32.8	5.45*	5.45*	5.89*	5.89*
1675	4	0.36	0.32	-3.1	-0.1	-0.2	26.0	5.3	2.9	5.89*	5.89*	5.89*	5.89*	2194	2	1.35	0.08	-1.6	-0.1	0.4	-34.5	-116.2	23.2	5.45*	5.45*	5.45*	5.45*
1676	1	0.32	0.08	-11.0	-0.1	0.0	36.8	1.9	-2.3	6.09	5.45*	5.89*	5.89*	2194	3	1.35	0.32	-2.1	-0.1	-0.4	-32.8	-4.5	-23.2	5.45*	5.45*	5.45*	5.45*
1676	2	1.19	0.08	-7.8	0.3	0.4	37.2	-3.4	5.6	5.97	5.45*	5.45*	5.45*	2194	4	0.36	0.32	-3.4	0.0	0.1	-32.7	46.2	32.8	5.45*	5.45*	5.89*	5.89*
1676	3	1.19	0.32	-4.6	0.2	0.0	27.0	-4.6	-5.7	5.45*	5.45*	5.45*	5.45*	2195	1	0.32	0.08	-3.7	0.0	-0.1	-34.3	22.9	-23.0	5.45*	5.45*	5.89*	5.89*
1676	4	0.32	0.32	-11.4	-0.1	-0.1	27.5	1.9	2.2	6.76	5.45*	5.89*	5.89*	2195	2	1.19	0.08	-3.3	-0.2	0.0	-34.3	-23.6	36.6	5.45*	5.45*	5.45*	5.45*
1677	1	0.28	0.08	13.7	0.1	-0.1	36.7	-1.7	-1.3	5.45*	7.73	5.45*	5.45*	2195	3	1.19	0.32	-3.1	-0.2	0.0	-32.6	-55.4	-36.6	5.45*	5.45*	5.45*	5.45*
1677	2	1.06	0.08	14.3	0.0	0.0	36.7	0.6	2.2	5.45*	8.10	5.89*	5.89*	2195	4	0.32	0.32	-3.5	0.0	0.1	-32.5	24.0	23.0	5.45*	5.45*	5.89*	5.89*
1677	3	1.06	0.32	14.3	0.0	-0.1	28.0	0.5	-2.2	5.45*	7.49	5.89*	5.89*	2196	1	0.28	0.08	-3.7	0.0	0.1	-34.3	-21.4	-21.2	5.45*	5.45*	5.45*	5.45*
1677	4	0.28	0.32	13.0	-0.1	0.2	27.9	-1.4	1.4	5.45*	6.97	5.45*	5.45*	2196	2	1.06	0.08	-3.3	0.0	0.0	-34.3	5.7	20.8	5.45*	5.45*	5.89*	5.89*
1678	1	0.36	0.08	-2.7	0.1	0.2	87.4	13.1	-9.2	7.11	5.89*	5.89*	5.89*	2196	3	1.06	0.32	-3.2	0.0	0.0	-32.4	2.3	-20.8	5.45*	5.45*	5.89*	5.89*
78	2	1.35	0.08	12.0	-0.8	-2.4	87.6	-13.3	-7.2	5.89*	10.93	5.89*	5.89*	2196	4	0.28	0.32	-3.5	0.0	-0.1	-32.4	-12.5	21.2	5.45*	5.45*	5.45*	5.45*
78	3	1.35	0.32	12.1	-0.8	2.5	86.0	-17.9	7.2	5.89*	10.86	5.89*	5.89*	2321	1	0.36	0.08	-2.1	0.0	0.0	-1.1	62.6	-62.0	5.45*	5.45*	5.89*	5.89*
1678	4	0.36	0.32	-2.7	0.1	-0.2	86.5	13.2	-9.1	7.08	5.89*	5.89*	5.89*	2321	2	1.35	0.08	-1.7	-0.3	0.9	-137.1	-77.2	5.45*	5.45*	5.45*	5.45*

2323	3	1.35	0.32	2.2	-0.3	0.6	1.6	-21.1	-23.2	5.45*	5.45*	5.45*	5.45*
2323	4	0.36	0.32	-2.7	0.0	0.0	1.7	60.4	42.0	5.45*	5.45*	5.89*	5.89*
2324	1	0.32	0.08	-7.6	0.0	0.0	1.5	29.3	-30.5	5.45*	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-5.2	-0.1	0.2	1.4	-35.1	48.9	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	-5.2	-0.1	-0.2	2.0	-66.8	-48.9	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	-7.6	-0.1	0.0	2.0	30.4	30.5	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	8.7	0.1	0.0	1.6	-26.2	-26.7	5.45*	5.45*	5.45*	5.45*
2325	2	1.06	0.08	9.4	0.0	0.0	1.6	7.0	26.9	5.45*	5.45*	5.89*	5.89*
2325	3	1.06	0.32	9.4	0.0	0.0	2.1	4.6	-26.9	5.45*	5.45*	5.89*	5.89*
2325	4	0.28	0.32	8.7	0.0	0.0	2.1	-17.3	26.7	5.45*	5.45*	5.45*	5.45*
2452	1	0.36	0.08	-2.5	0.1	0.0	15.0	64.6	-43.9	5.89*	5.89*	5.89*	5.89*
2452	2	1.35	0.08	3.8	-0.6	-0.8	14.7	-79.3	21.7	5.45*	5.45*	5.45*	5.45*
2452	3	1.35	0.32	4.0	-0.4	0.9	15.3	-80.4	-21.6	5.45*	5.45*	5.45*	5.45*
2452	4	0.36	0.32	-2.6	0.0	0.0	15.3	64.6	43.9	5.89*	5.89*	5.89*	5.89*
2453	1	0.32	0.08	-9.2	-0.1	0.0	15.6	31.1	-31.9	5.45*	5.45*	5.89*	5.89*
2453	2	1.19	0.08	-6.0	0.0	0.3	15.4	-53.5	51.9	5.45*	5.45*	5.45*	5.45*
2453	3	1.19	0.32	-5.9	0.0	-0.3	15.5	-53.2	-51.9	5.45*	5.45*	5.45*	5.45*
'53	4	0.32	0.32	-9.2	-0.1	0.0	15.4	31.1	31.9	5.45*	5.45*	5.89*	5.89*
2454	1	0.28	0.08	10.7	0.1	-0.1	15.8	-22.6	-27.7	5.45*	5.45*	5.45*	5.45*
2454	2	1.06	0.08	11.6	0.0	0.0	15.9	6.1	28.1	5.45*	5.56	5.89*	5.89*
2454	3	1.06	0.32	11.6	0.0	0.1	15.5	6.1	-28.1	5.45*	5.53	5.89*	5.89*
2454	4	0.28	0.32	10.7	0.1	0.1	15.5	-22.7	27.6	5.45*	5.45*	5.45*	5.45*
2581	1	0.36	0.08	-4.1	-0.1	-0.2	-86.0	32.5	-23.6	5.45*	5.45*	5.89*	5.89*
2581	2	1.35	0.08	-10.1	0.2	1.7	-85.6	-43.8	26.6	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	-10.0	0.3	-1.6	-89.2	-44.8	-26.7	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-4.1	-0.1	0.1	-88.5	32.6	23.5	5.45*	5.45*	5.89*	5.89*
2582	1	0.32	0.08	2.2	0.1	-0.1	-86.8	17.2	-17.1	5.45*	5.45*	5.89*	5.89*
82	2	1.19	0.08	-0.8	-0.3	-0.3	-88.5	-28.0	23.1	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-0.8	-0.3	0.3	-88.3	-27.7	-23.2	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	2.2	0.1	0.1	-87.9	17.2	17.0	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	-3.6	0.0	0.2	-87.1	-12.2	-16.1	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	-4.5	0.0	-0.1	-87.1	3.1	14.6	5.45*	5.45*	5.89*	5.89*
2583	3	1.06	0.32	-4.5	0.0	0.1	-87.7	3.1	-14.6	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	-3.6	0.0	-0.2	-87.8	-12.3	16.1	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-1.0	0.1	-0.2	-14.9	24.2	-17.0	5.45*	5.45*	5.89*	5.89*
2962	2	1.35	0.08	-0.6	-1.0	0.4	-13.5	-30.5	13.3	5.45*	5.45*	5.45*	5.45*
62	3	1.35	0.32	1.1	0.6	0.7	-28.4	-32.1	-13.5	5.45*	5.45*	5.45*	5.45*
962	4	0.36	0.32	-2.1	-0.1	-0.2	-27.3	24.2	16.8	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	-3.2	0.0	-0.1	-16.1	12.2	-12.4	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-3.0	0.1	0.3	-15.3	-20.6	18.3	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-2.1	-0.1	0.2	-26.1	-20.1	-18.6	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-3.8	-0.1	-0.1	-25.1	12.2	12.2	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	4.1	0.1	0.1	-16.4	-8.7	-11.0	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	4.1	0.0	0.0	-16.5	2.3	10.7	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	4.2	0.0	0.0	-24.6	2.3	-10.7	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	3.6	-0.1	0.1	-24.7	-8.8	11.1	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.2	0.1	0.0	44.7	11.8	-7.4	5.89*	5.89*	5.89*	5.89*
2965	2	1.35	0.08	6.1	-1.0	-1.1	45.5	-8.3	-4.3	5.89*	5.89*	5.89*	5.89*
2965	3	1.35	0.32	7.1	0.0	1.7	35.3	-17.0	4.1	5.45*	5.45*	5.45*	5.45*
2965	4	0.36	0.32	-2.9	0.0	-0.2	36.4	12.0	7.2	5.89*	5.89*	5.89*	5.89*
2966	1	0.32	0.08	-12.0	-0.1	0.0	43.6	5.0	-5.5	7.75	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-7.9	0.3	0.5	44.4	-10.6	11.0	6.26	5.45*	5.45*	5.45*
2966	3	1.19	0.32	-7.3	0.2	-0.1	37.6	-8.1	-11.3	5.55	5.45*	5.45*	5.45*
2966	4	0.32	0.32	-12.4	-0.1	-0.1	38.6	4.9	5.3	7.52	5.45*	5.89*	5.89*
2967	1	0.28	0.08	14.4	0.1	-0.1	43.4	-3.5	-4.6	5.45*	8.67	5.45*	5.45*
7	2	1.06	0.08	15.6	0.0	0.0	43.4	1.0	5.0	5.45*	9.10	5.89*	5.89*
7	3	1.06	0.32	15.6	0.0	0.0	39.2	1.2	-5.0	5.45*	8.81	5.89*	5.89*
2967	4	0.28	0.32	14.2	0.0	0.2	39.1	-4.1	4.0	5.45*	8.24	5.45*	5.45*

2968	1	0.36	0.08	-3.0	0.2	0.1	82.8	29.4	-19.1	6.92	5.89*	5.89*	5.89*
2968	2	1.35	0.08	10.8	-1.1	-2.1	83.5	-29.8	-0.2	5.89*	10.12	5.89*	5.89*
2968	3	1.35	0.32	11.1	-0.8	2.3	77.0	-37.6	0.5	5.89*	9.81	5.89*	5.89*
2968	4	0.36	0.32	-3.2	0.1	-0.1	78.0	29.6	18.9	6.68	5.89*	5.89*	5.89*
2969	1	0.32	0.08	-17.7	-0.1	0.0	81.9	13.3	-14.0	12.75	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-10.8	0.3	0.6	82.7	-24.9	25.6	10.09	5.89*	5.89*	5.89*
2969	3	1.19	0.32	-10.6	0.3	-0.5	79.4	-22.6	-25.9	9.79	5.89*	5.89*	5.89*
2969	4	0.32	0.32	-17.8	-0.1	-0.1	80.4	13.2	13.8	12.68	5.45*	5.89*	5.89*
2970	1	0.28	0.08	21.0	0.1	-0.2	81.7	-9.5	-11.2	5.45*	14.00	5.45*	5.45*
2970	2	1.06	0.08	23.0	0.0	0.0	81.7	2.7	12.6	5.45*	14.74	5.89*	5.89*
2970	3	1.06	0.32	23.0	0.0	0.0	81.2	2.9	-12.6	5.45*	14.71	5.89*	5.89*
2970	4	0.28	0.32	20.9	0.1	0.2	81.1	-10.2	11.2	5.45*	13.92	5.45*	5.45*
3097	1	0.36	0.08	-3.3	0.1	0.2	65.8	24.3	-15.6	5.89*	5.89*	5.89*	5.89*
3097	2	1.35	0.08	9.6	-0.5	-2.1	66.5	-27.4	-2.4	5.89*	6.48	5.89*	5.89*
3097	3	1.35	0.32	9.0	-1.0	1.8	67.9	-27.3	2.2	5.89*	6.35	5.89*	5.89*
3097	4	0.36	0.32	-2.9	0.1	-0.1	68.8	24.3	15.4	5.94	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-16.2	-0.1	0.1	65.2	10.7	-11.4	10.95	5.45*	5.89*	5.89*
3098	2	1.19	0.08	-9.8	0.2	0.3	65.9	-19.4	21.4	8.51	5.89*	5.89*	5.89*
398	3	1.19	0.32	-10.0	0.3	-0.5	69.9	-19.4	-21.6	8.89	5.89*	5.89*	5.89*
3098	4	0.32	0.32	-16.0	-0.1	0.0	70.8	10.7	11.2	11.30	5.45*	5.89*	5.89*
3099	1	0.28	0.08	18.9	0.0	-0.2	65.1	-8.0	-8.9	5.45*	11.93	5.45*	5.45*
3099	2	1.06	0.08	20.8	0.0	0.0	65.0	2.2	10.3	5.45*	12.68	5.89*	5.89*
3099	3	1.06	0.32	20.8	0.0	0.0	71.4	2.3	-10.3	5.45*	13.14	5.89*	5.89*
3099	4	0.28	0.32	19.1	0.1	0.2	71.3	-8.0	9.0	5.45*	12.49	5.45*	5.45*
3226	1	0.36	0.08	-3.5	-0.1	0.1	5.0	26.0	-17.7	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	3.0	0.2	-1.0	5.6	-32.3	8.2	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	1.8	-1.0	0.2	13.0	-31.9	-8.5	5.89*	5.89*	5.89*	5.89*
3226	4	0.36	0.32	-2.7	0.1	0.1	13.8	26.0	17.5	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	-9.0	-0.1	0.0	4.4	12.5	-12.9	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-5.7	0.0	0.0	5.1	-21.4	20.9	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	-6.4	0.1	-0.4	14.4	-21.5	-21.1	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	-8.6	0.0	0.1	15.2	12.5	12.7	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	9.9	0.0	-0.1	4.3	-9.1	-11.1	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	10.9	0.0	0.0	4.2	2.5	11.3	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	10.8	0.0	0.0	15.6	2.5	-11.3	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	10.2	0.1	0.0	15.5	-9.1	11.1	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	-4.2	-0.2	0.0	-76.6	26.0	-18.9	5.45*	5.45*	5.89*	5.89*
355	2	1.35	0.08	-8.0	0.6	1.1	-76.2	-37.0	21.1	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	-8.6	0.1	-1.5	-71.0	-33.6	-21.2	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.8	-0.1	0.1	-70.3	26.0	18.7	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	6.5	0.0	0.0	-77.4	13.7	-13.7	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-1.4	-0.2	-0.4	-77.0	-21.8	18.4	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-1.7	-0.2	0.2	-70.1	-22.7	-18.6	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	0.6	0.1	0.0	-69.6	13.7	13.6	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	-1.7	0.0	0.1	-77.6	-9.9	-12.8	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	-2.2	0.1	0.0	-77.7	2.5	11.6	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	-2.2	0.0	0.0	-69.3	2.5	-11.6	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	-1.5	0.0	-0.2	-69.4	-9.6	12.8	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	0.4	0.2	0.0	-283.8	8.8	-12.8	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	0.8	2.5	3.2	-359.0	-367.3	30.2	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	1.8	2.6	3.4	-346.5	-364.8	12.7	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	1.3	0.4	0.1	-271.3	11.3	-30.3	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-6.0	0.3	0.8	-335.0	-5.6	-27.6	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-6.3	-1.3	-0.1	-314.2	98.4	22.1	2.72*	2.72*	3.68	3.38
3485	3	1.19	0.16	-6.7	-1.4	-0.2	-297.7	101.7	27.6	2.72*	2.72*	3.82	3.47
3485	4	0.32	0.16	-6.3	0.2	0.8	-318.5	-2.3	-22.1	2.72*	2.72*	2.72*	2.72*
3486	1	0.28	0.04	-11.2	-0.2	0.3	-323.6	5.1	-26.5	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-11.2	-0.2	0.1	-330.5	-29.1	28.5	2.72*	2.72*	2.72*	2.72*

3486	3	1.06	0.16	-11.3	-0.2	0.6	-310.1	-25.1	26.5	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-11.3	-0.2	0.3	-302.2	9.2	-28.5	2.72*	2.72*	2.94*	2.94*

HIPOTESIS NUMERO 6

hipo 6 p. propio (proceso hipo-6) + pret.proc (t=0)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Ch = 1.5 Cn = 1.5

ELEM.	P.	X	Y	Nx	Ny	Nxy	Mx	My	Mxy	AsupX.	AinfX.	AsupY.	AinfY.
379	1	0.36	0.08	-1.2	0.2	0.2	147.6	32.9	-20.9	10.68	10.53	5.89*	5.89*
379	2	1.35	0.08	19.8	-1.5	-3.7	147.2	20.1	-11.8	5.89*	18.20	5.89*	5.89*
379	3	1.35	0.32	20.4	-0.9	4.1	135.4	-92.4	11.9	5.89*	17.62	5.89*	5.89*
379	4	0.36	0.32	-1.6	0.1	-0.3	135.2	35.1	21.0	9.97	9.46	5.89*	5.89*
380	1	0.32	0.08	-23.8	-0.2	0.1	149.1	14.7	-15.3	19.95	5.89*	5.89*	5.89*
380	2	1.19	0.08	-13.3	0.6	1.0	148.7	-42.8	31.8	15.64	5.89*	5.89*	5.89*
380	3	1.19	0.32	-13.0	0.5	-0.7	136.1	-10.7	-31.8	14.67	5.89*	5.89*	5.89*
380	4	0.32	0.32	-24.0	-0.3	-0.1	135.9	13.6	15.4	19.16	5.45*	5.89*	5.89*
381	1	0.28	0.08	29.0	0.1	-0.4	149.6	-6.3	-11.4	5.45*	22.05	5.45*	5.45*
381	2	1.06	0.08	32.0	0.6	0.0	149.8	2.0	14.2	5.45*	23.21	5.89*	5.89*
381	3	1.06	0.32	32.0	0.0	-0.1	136.0	4.4	-14.3	5.45*	22.19	5.89*	5.89*
381	4	0.28	0.32	28.9	0.0	0.5	136.1	-15.4	11.4	5.45*	21.00	5.45*	5.45*
382	1	0.36	0.08	0.4	0.1	0.5	217.6	29.2	-17.4	16.14	15.18	5.89*	5.89*
382	2	1.35	0.08	31.1	-1.5	-5.9	217.1	26.4	-23.2	5.89*	27.61	5.89*	5.89*
382	3	1.35	0.32	30.9	-1.6	5.8	216.7	-84.2	23.2	5.89*	27.50	5.89*	5.89*
382	4	0.36	0.32	0.6	0.2	-0.5	216.6	31.4	17.5	16.00	15.17	5.89*	5.89*
383	1	0.32	0.08	-31.6	-0.4	0.3	219.7	11.9	-12.8	27.97	5.89*	5.89*	5.89*
383	2	1.19	0.08	-16.2	0.9	1.1	219.2	-38.8	30.8	21.68	9.31	5.89*	5.89*
383	3	1.19	0.32	-16.3	0.9	-1.2	217.6	-7.2	-30.6	21.63	9.13	5.89*	5.89*
383	4	0.32	0.32	-31.5	-0.4	-0.3	217.3	10.9	12.9	27.76	5.89*	5.89*	5.89*
384	1	0.28	0.08	38.6	0.0	-0.7	220.5	-4.6	-8.4	5.45*	30.98	5.45*	5.45*
384	2	1.06	0.08	43.1	0.6	0.1	220.7	1.7	12.3	5.45*	32.66	5.89*	5.89*
384	3	1.06	0.32	43.1	-0.1	-0.1	217.5	4.0	-12.4	5.45*	32.41	5.89*	5.89*
384	4	0.28	0.32	38.7	0.1	0.7	217.7	-13.5	8.4	5.45*	30.79	5.45*	5.45*
385	1	0.36	0.08	-2.3	0.0	0.3	85.1	13.0	-7.9	6.79	5.89*	5.89*	5.89*
385	2	1.35	0.08	14.0	-0.2	-3.0	84.6	28.7	-11.0	5.89*	11.53	5.89*	5.89*
385	3	1.35	0.32	13.1	-1.1	2.4	98.4	-54.9	11.1	5.89*	12.10	5.89*	5.89*
385	4	0.36	0.32	-1.6	0.1	-0.2	98.2	14.6	8.0	7.44	6.64	5.89*	5.89*
386	1	0.32	0.08	-18.4	-0.2	0.2	86.8	5.6	-5.8	13.37	5.45*	5.89*	5.89*
386	2	1.19	0.08	-10.2	0.4	0.3	86.2	-22.4	14.1	10.07	5.89*	5.89*	5.89*
386	3	1.19	0.32	-10.7	0.5	-0.7	98.4	1.4	-14.0	11.12	5.89*	5.89*	5.89*
386	4	0.32	0.32	-18.0	-0.2	-0.1	98.1	6.8	3.9	14.09	5.45*	5.89*	5.89*
387	1	0.28	0.08	21.2	0.0	-0.4	87.3	-0.7	-3.8	5.45*	14.66	5.45*	5.45*
387	2	1.06	0.08	24.1	0.0	0.1	87.6	-0.4	5.6	5.45*	15.89	5.45*	5.45*
387	3	1.06	0.32	24.0	0.0	-0.1	97.9	2.3	-5.7	5.45*	16.22	5.89*	5.89*
387	4	0.28	0.32	21.9	0.1	0.3	98.1	-7.3	3.8	5.45*	15.55	5.45*	5.45*
514	1	0.36	0.08	-4.2	-0.1	0.0	-37.4	12.1	-8.4	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-3.5	0.3	0.3	-37.6	24.1	-18.0	5.45*	5.45*	5.89*	5.89*
514	3	1.35	0.32	-4.1	-0.2	-0.7	-32.3	-39.7	-18.0	5.45*	5.45*	5.89*	5.45*
514	4	0.36	0.32	-3.8	0.0	0.1	-32.3	14.4	8.4	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	-4.2	0.0	0.0	-36.6	-7.1	-6.8	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-3.8	-0.1	-0.2	-37.1	-23.2	0.5	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-4.2	-0.1	0.0	-32.5	0.8	-0.4	5.45*	5.45*	5.89*	5.89*
515	4	0.32	0.32	-4.0	0.0	0.0	-32.8	6.9	6.9	5.45*	5.45*	5.89*	5.89*

516	1	0.28	0.08	4.0	0.0	0.0	-36.4	-1.5	-6.4	5.45*	5.45*	5.45*	5.45*
516	2	1.06	0.08	4.1	0.0	0.0	-36.2	0.3	5.8	5.45*	5.45*	5.89*	5.89*
516	3	1.06	0.32	4.1	0.0	0.0	-33.2	2.2	-5.9	5.45*	5.45*	5.89*	5.89*
516	4	0.28	0.32	4.2	0.0	-0.1	-33.0	-8.3	6.3	5.45*	5.45*	5.45*	5.45*
643	1	0.36	0.08	-4.0	-0.1	0.0	-67.0	16.9	-12.2	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-7.5	0.4	1.1	-67.2	-22.8	17.5	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-7.8	0.1	-1.3	-67.3	-23.8	-17.5	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	-3.8	-0.1	0.1	-67.2	16.4	12.2	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	-0.1	0.1	0.0	-66.5	9.0	-8.8	5.45*	5.45*	5.89*	5.89*
644	2	1.19	0.08	-1.8	-0.2	-0.3	-67.0	-14.4	10.9	5.45*	5.45*	5.45*	5.45*
644	3	1.19	0.32	-1.9	-0.2	0.2	-67.4	-14.1	-10.8	5.45*	5.45*	5.45*	5.45*
644	4	0.32	0.32	0.1	0.1	0.0	-67.8	9.0	8.9	5.45*	5.45*	5.89*	5.89*
645	1	0.28	0.08	-1.0	0.0	0.1	-66.3	-6.3	-8.7	5.45*	5.45*	5.45*	5.45*
645	2	1.06	0.08	-1.4	0.0	0.0	-66.1	1.6	7.4	5.45*	5.45*	5.89*	5.89*
645	3	1.06	0.32	-1.5	0.0	0.0	-68.2	1.6	-7.5	5.45*	5.45*	5.89*	5.89*
645	4	0.28	0.32	-0.9	0.0	-0.1	-68.0	-6.4	8.6	5.45*	5.45*	5.45*	5.45*
772	1	0.36	0.08	-3.3	-0.1	-0.1	-62.0	16.1	-11.9	5.45*	5.45*	5.89*	5.89*
772	2	1.35	0.08	-6.5	0.2	1.1	-62.2	-22.1	16.6	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-6.5	0.2	-1.0	-64.5	-23.4	-16.6	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	-3.3	-0.1	0.1	-64.4	16.1	11.9	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	0.1	0.1	0.0	-61.5	8.8	-8.6	5.45*	5.45*	5.89*	5.89*
773	2	1.19	0.08	-1.5	-0.2	-0.2	-62.0	-14.2	10.8	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	-1.5	-0.2	0.2	-64.6	-13.8	-10.7	5.45*	5.45*	5.45*	5.45*
773	4	0.32	0.32	0.1	0.1	0.0	-65.0	8.8	8.7	5.45*	5.45*	5.89*	5.89*
774	1	0.28	0.08	-0.9	0.0	0.1	-61.3	-6.2	-8.4	5.45*	5.45*	5.45*	5.45*
774	2	1.06	0.08	-1.4	0.0	0.0	-61.1	1.5	7.2	5.45*	5.45*	5.89*	5.89*
774	3	1.06	0.32	-1.4	0.0	0.0	-65.3	1.6	-7.3	5.45*	5.45*	5.89*	5.89*
774	4	0.28	0.32	-0.9	0.0	-0.1	-65.2	-6.2	8.4	5.45*	5.45*	5.45*	5.45*
901	1	0.36	0.08	-2.5	0.0	0.0	-34.0	14.5	-10.5	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-2.6	-0.1	0.4	-34.2	-18.7	11.7	5.45*	5.45*	5.45*	5.45*
901	3	1.35	0.32	-2.5	0.1	-0.3	-38.3	-20.8	-11.7	5.45*	5.45*	5.45*	5.45*
901	4	0.36	0.32	-2.6	0.0	0.0	-38.2	14.6	10.5	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	-2.5	0.0	0.0	-33.3	7.7	-7.5	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	-2.5	-0.1	0.0	-33.9	-12.7	10.4	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	-2.5	-0.1	0.1	-38.2	-12.1	-10.3	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	-2.5	0.0	0.0	-38.6	7.6	7.7	5.45*	5.45*	5.89*	5.89*
903	1	0.28	0.08	2.5	0.0	0.1	-33.1	-5.3	-7.2	5.45*	5.45*	5.45*	5.45*
903	2	1.06	0.08	2.5	0.0	0.0	-32.9	1.4	6.5	5.45*	5.45*	5.89*	5.89*
903	3	1.06	0.32	2.5	0.0	0.0	-38.9	1.4	-6.5	5.45*	5.45*	5.89*	5.89*
903	4	0.28	0.32	2.5	0.0	0.0	-38.8	-5.5	7.1	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-1.4	0.0	0.0	-0.2	16.6	-11.4	5.45*	5.45*	5.89*	5.89*
1030	2	1.35	0.08	2.8	-0.3	-0.6	-0.4	-21.3	6.7	5.45*	5.45*	5.45*	5.45*
1030	3	1.35	0.32	2.7	-0.3	0.6	-3.1	-20.4	-6.7	5.45*	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-1.4	0.0	0.0	-3.0	16.6	11.3	5.45*	5.45*	5.89*	5.89*
1031	1	0.32	0.08	-5.7	-0.1	0.0	0.7	8.1	-8.2	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	-3.6	0.1	0.2	0.1	-13.7	13.2	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	-3.6	0.1	-0.1	-2.8	-13.9	-13.1	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	-5.7	0.0	0.0	-3.2	8.1	8.3	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	6.6	0.0	0.0	1.0	-5.9	-7.2	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	7.2	0.0	0.0	1.2	1.6	7.2	5.45*	5.45*	5.89*	5.89*
1032	3	1.06	0.32	7.2	0.0	0.0	-3.5	1.6	-7.3	5.45*	5.45*	5.89*	5.89*
1032	4	0.28	0.32	6.6	0.0	0.1	-3.4	-5.9	7.2	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-1.2	-0.1	0.1	-26.9	30.1	-21.0	5.45*	5.45*	5.89*	5.89*
1159	2	1.35	0.08	1.5	0.3	-0.6	-27.1	-40.5	16.6	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	0.4	-0.7	-0.1	-14.8	-37.3	-16.6	5.45*	5.45*	5.45*	5.45*
1159	4	0.36	0.32	-0.6	0.1	0.1	-14.8	30.1	21.0	5.45*	5.45*	5.89*	5.89*
1160	1	0.32	0.08	-3.0	-0.1	0.0	-25.8	15.1	-15.2	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	-1.6	-0.1	-0.1	-26.4	-24.8	23.0	5.45*	5.45*	5.45*	5.45*
1160	3	1.19	0.32	-2.1	0.0	-0.3	-14.9	-25.7	-22.9	5.45*	5.45*	5.45*	5.45*
1160	4	0.32	0.32	-2.6	0.0	0.0	-15.4	15.1	15.3	5.45*	5.45*	5.89*	5.89*
1161	1	0.28	0.08	3.0	0.0	-0.1	-25.4	-11.0	-13.8	5.45*	5.45*	5.45*	5.45*
1161	2	1.06	0.08	3.5	0.0	0.0	-25.3	2.9	13.3	5.45*	5.45*	5.89*	5.89*
1161	3	1.06	0.32	3.4	0.0	0.0	-15.8	2.8	-13.3	5.45*	5.45*	5.89*	5.89*
1161	4	0.28	0.32	3.3	0.1	-0.1	-15.7	-10.8	13.7	5.45*	5.45*	5.45*	5.45*
1288	1	0.36	0.04	1.1	0.4	0.7	-289.0	-0.9	-6.1	2.72*	2.72*	2.72*	2.72*
1288	2	1.35	0.04	1.4	1.8	-2.1	-283.8	25.1	4.8	2.72*	2.72*	2.94*	2.94*
1288	3	1.35	0.16	0.6	1.7	-2.0	-280.6	25.7	6.1	2.72*	2.72*	2.94*	2.94*
1288	4	0.36	0.16	0.3	0.2	0.8	-285.8	-0.3	-4.9	2.72*	2.72*	2.72*	2.72*
1289	1	0.32	0.04	-5.7	0.2	-0.1	-287.0	-0.1	-5.7	2.72*	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-5.9	-1.1	0.4	-288.5	-7.4	6.0	2.72*	2.72*	2.72*	2.72*
1289	3	1.19	0.16	-5.8	-1.0	0.3	-284.7	-6.7	5.6	2.72*	2.72*	2.72*	2.72*
1289	4	0.32	0.16	-5.5	0.2	-0.1	-283.2	0.7	-6.0	2.72*	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-10.2	-0.1	0.0	-289.0	-1.0	-6.7	2.72*	2.72*	2.72*	2.72*
1290	2	1.06	0.04	-10.2	-0.2	-0.1	-288.5	1.4	6.5	2.72*	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-10.2	-0.2	-0.1	-283.6	2.4	6.7	2.72*	2.72*	2.94*	2.94*
1290	4	0.28	0.16	-10.2	-0.1	0.0	-284.1	0.0	-6.5	2.72*	2.72*	2.72*	2.72*
291	1	0.36	0.08	-2.4	0.2	0.1	75.3	48.8	-32.1	6.17	5.89*	5.89*	5.89*
1291	2	1.35	0.08	10.4	-1.1	-2.0	75.0	-57.0	6.0	5.89*	9.38	5.89*	5.89*
1291	3	1.35	0.32	11.0	-0.5	2.4	70.5	-58.5	-6.0	5.89*	9.33	5.89*	5.89*
1291	4	0.36	0.32	-2.8	0.1	-0.2	70.4	48.8	32.2	6.00	5.89*	5.89*	5.89*
1292	1	0.32	0.08	-16.4	-0.1	0.0	76.3	22.6	-23.4	11.85	5.45*	5.89*	5.89*
1292	2	1.19	0.08	-10.0	0.2	0.6	76.0	-39.9	41.2	9.30	5.89*	5.89*	5.89*
1292	3	1.19	0.32	-9.7	0.2	-0.4	71.0	-39.5	-41.2	8.83	5.89*	5.89*	5.89*
1292	4	0.32	0.32	-16.6	-0.2	-0.1	70.8	22.5	23.5	11.53	5.45*	5.89*	5.89*
1293	1	0.28	0.08	19.7	0.1	-0.2	76.7	-16.6	-19.5	5.45*	13.12	5.45*	5.45*
1293	2	1.06	0.08	21.5	0.0	0.0	76.8	4.6	21.0	5.45*	13.82	5.89*	5.89*
1293	3	1.06	0.32	21.6	0.0	0.0	70.9	4.6	-21.0	5.45*	13.40	5.89*	5.89*
1293	4	0.28	0.32	19.5	0.0	0.2	71.0	-16.7	19.5	5.45*	12.63	5.45*	5.45*
1672	1	0.36	0.08	-2.4	0.0	0.0	16.7	28.7	-19.5	5.89*	5.89*	5.89*	5.89*
1672	2	1.35	0.08	2.1	-0.6	-0.6	16.9	-38.2	9.8	5.45*	5.45*	5.45*	5.45*
1672	3	1.35	0.32	2.8	0.1	1.1	9.3	-32.6	-9.8	5.45*	5.45*	5.45*	5.45*
1672	4	0.36	0.32	-2.9	-0.1	-0.1	9.8	28.5	19.4	5.45*	5.45*	5.89*	5.89*
1673	1	0.32	0.08	-8.8	-0.1	0.0	16.4	13.8	-14.2	5.45*	5.45*	5.89*	5.89*
1673	2	1.19	0.08	-6.1	0.1	0.3	16.6	-22.9	22.9	5.45*	5.45*	5.45*	5.45*
1673	3	1.19	0.32	-5.7	0.1	0.0	10.6	-24.4	-23.0	5.45*	5.45*	5.45*	5.45*
1673	4	0.32	0.32	-9.1	-0.1	-0.1	10.9	13.8	14.1	5.45*	5.45*	5.89*	5.89*
1674	1	0.28	0.08	10.5	0.1	-0.1	16.4	-10.3	-12.3	5.45*	5.45*	5.45*	5.45*
1674	2	1.06	0.08	11.2	0.0	0.0	16.3	2.8	12.5	5.45*	5.45*	5.89*	5.89*
1674	3	1.06	0.32	11.3	0.0	0.0	11.3	2.7	-12.5	5.45*	5.45*	5.89*	5.89*
1674	4	0.28	0.32	10.3	0.0	0.1	11.2	-9.8	12.3	5.45*	5.45*	5.45*	5.45*
1675	1	0.36	0.08	-1.7	0.1	0.1	71.9	13.1	-7.8	5.89*	5.89*	5.89*	5.89*
1675	2	1.35	0.08	10.8	-0.9	-2.1	72.0	-16.1	-7.3	5.89*	9.35	5.89*	5.89*
1675	3	1.35	0.32	11.2	-0.6	2.3	68.9	-10.3	7.2	5.89*	9.31	5.89*	5.89*
1675	4	0.36	0.32	-1.9	0.1	-0.2	69.3	13.0	7.7	5.89*	5.89*	5.89*	5.89*
1676	1	0.32	0.08	-13.1	-0.1	0.1	71.7	5.2	-5.8	11.04	5.45*	5.89*	5.89*
1676	2	1.19	0.08	-10.9	0.4	0.5	72.6	-9.2	12.7	8.58	5.89*	5.89*	5.89*
1676	3	1.19	0.32	-9.7	0.3	-0.4	70.3	-10.9	-12.8	8.37	5.89*	5.89*	5.89*
1676	4	0.32	0.32	-15.3	-0.2	-0.1	70.8	5.2	5.7	11.02	5.45*	5.89*	5.89*
1677	1	0.28	0.08	18.7	0.1	-0.2	71.8	-4.3	-4.0	5.45*	12.21	5.45*	5.45*
1677	2	1.06	0.08	20.0	0.0	0.0	71.8	1.3	5.4	5.45*	12.88	5.89*	5.89*
1677	3	1.06	0.32	20.0	0.0	0.0	71.3	1.2	-5.4	5.45*	12.85	5.89*	5.89*
1677	4	0.28	0.32	18.1	0.0	0.3	71.2	-3.8	4.0	5.45*	12.13	5.45*	5.45*
1678	1	0.36	0.08	-2.3	0.0	0.1	8.9	12.6	-8.5	5.45*	5.45*	5.89*	5.89*
1678	2	1.35	0.08	2.9	0.0	-0.9	9.0	-13.6	2.9	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	2.7	-0.6	0.5	15.4	-17.1	-2.9	5.89*	5.89*	5.89*	5.89*
1678	4	0.36	0.32	-2.1	0.1	0.0	15.8	12.7	8.4	5.45*	5.45*	5.89*	5.89*

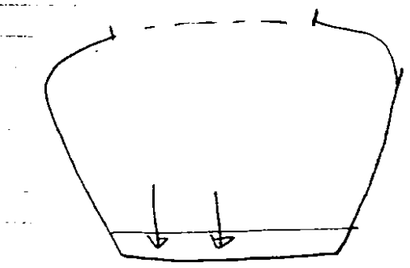
1679	1	0.32	0.08	-9.5	-0.1	0.1	8.8	6.0	-6.2	5.45*	5.45*	5.89*	5.89*
1679	2	1.19	0.08	-6.3	0.1	0.0	9.1	-10.9	10.4	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	-6.6	0.1	-0.3	16.2	-9.9	-10.5	5.45*	5.45*	5.45*	5.45*
1679	4	0.32	0.32	-9.3	0.0	0.0	16.6	6.0	6.1	5.45*	5.45*	5.89*	5.89*
1680	1	0.28	0.08	10.6	0.0	-0.1	8.9	-4.2	-5.2	5.45*	5.45*	5.45*	5.45*
1680	2	1.06	0.08	11.6	0.0	0.0	8.8	1.2	5.5	5.45*	5.45*	5.89*	5.89*
1680	3	1.06	0.32	11.5	0.0	0.0	16.9	1.2	-5.5	5.45*	5.61	5.89*	5.89*
1680	4	0.28	0.32	10.8	0.1	0.0	16.9	-4.5	5.2	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	-4.2	-0.1	0.0	-51.1	14.2	-10.7	5.45*	5.45*	5.89*	5.89*
1807	2	1.35	0.08	-5.4	0.4	0.7	-51.3	-21.7	12.4	5.45*	5.45*	5.45*	5.45*
1807	3	1.35	0.32	-5.8	0.1	-1.0	-46.8	-18.4	-12.4	5.45*	5.45*	5.45*	5.45*
1807	4	0.36	0.32	-3.9	-0.1	0.1	-46.6	14.6	10.7	5.45*	5.45*	5.89*	5.89*
1808	1	0.32	0.08	-2.5	0.0	0.0	-51.2	7.8	-7.7	5.45*	5.45*	5.89*	5.89*
1808	2	1.19	0.08	-3.1	-0.1	-0.3	-51.1	-12.1	10.3	5.45*	5.45*	5.45*	5.45*
1808	3	1.19	0.32	-3.3	-0.1	0.1	-46.7	-13.1	-10.4	5.45*	5.45*	5.45*	5.45*
1808	4	0.32	0.32	-2.4	0.0	0.0	-46.4	7.8	7.7	5.45*	5.45*	5.89*	5.89*
1809	1	0.28	0.08	2.0	0.0	0.0	-51.2	-5.7	-7.3	5.45*	5.45*	5.45*	5.45*
19	2	1.06	0.08	1.8	0.0	0.0	-51.2	1.4	6.6	5.45*	5.45*	5.89*	5.89*
809	3	1.06	0.32	1.8	0.0	0.0	-46.3	1.4	-6.6	5.45*	5.45*	5.89*	5.89*
1809	4	0.28	0.32	2.1	0.0	0.1	-46.4	-5.4	7.3	5.45*	5.45*	5.45*	5.45*
1936	1	0.36	0.08	-3.7	-0.1	0.0	-53.2	28.6	-19.8	5.45*	5.45*	5.89*	5.89*
1936	2	1.35	0.08	-5.4	0.3	0.8	-53.3	-80.1	19.1	5.45*	5.45*	5.45*	5.45*
1936	3	1.35	0.32	-5.6	0.1	-0.9	-50.8	6.4	-19.1	5.45*	5.45*	5.89*	5.89*
1936	4	0.36	0.32	-3.6	-0.1	0.1	-50.6	26.9	19.8	5.45*	5.45*	5.89*	5.89*
1937	1	0.32	0.08	-1.6	0.0	0.0	-53.2	13.9	-14.3	5.45*	5.45*	5.89*	5.89*
1937	2	1.19	0.08	-2.5	-0.2	-0.2	-53.2	-11.2	20.4	5.45*	5.45*	5.45*	5.45*
1937	3	1.19	0.32	-2.6	-0.1	0.1	-50.6	-35.9	-20.5	5.45*	5.45*	5.45*	5.45*
[illegible]7	4	0.32	0.32	-1.6	0.0	0.0	-50.5	14.7	14.3	5.45*	5.45*	5.89*	5.89*
1938	1	0.28	0.08	1.1	0.0	0.1	-53.3	-13.7	-13.2	5.45*	5.45*	5.45*	5.45*
1938	2	1.06	0.08	0.9	0.0	0.0	-53.3	3.6	12.3	5.45*	5.45*	5.89*	5.89*
1938	3	1.06	0.32	0.8	0.0	0.0	-50.3	1.7	-12.3	5.45*	5.45*	5.89*	5.89*
1938	4	0.28	0.32	1.1	0.0	-0.1	-50.4	-6.8	13.2	5.45*	5.45*	5.45*	5.45*
2065	1	0.36	0.08	-3.4	-0.1	-0.1	-48.7	37.2	-25.6	5.45*	5.45*	5.89*	5.89*
2065	2	1.35	0.08	-4.7	0.1	0.7	-48.9	-90.5	21.7	5.45*	5.45*	5.45*	5.45*
2065	3	1.35	0.32	-4.7	0.1	-0.7	-46.6	-4.2	-21.7	5.45*	5.45*	5.45*	5.45*
2065	4	0.36	0.32	-3.4	-0.1	0.1	-46.5	35.5	25.6	5.45*	5.45*	5.89*	5.89*
[illegible]6	1	0.32	0.08	-1.9	0.0	0.0	-48.7	18.0	-18.5	5.45*	5.45*	5.89*	5.89*
066	2	1.19	0.08	-2.6	-0.2	-0.1	-48.7	-18.3	27.4	5.45*	5.45*	5.45*	5.45*
2066	3	1.19	0.32	-2.5	-0.2	0.1	-46.4	-42.9	-27.4	5.45*	5.45*	5.45*	5.45*
2066	4	0.32	0.32	-1.9	0.0	0.0	-46.3	18.8	18.5	5.45*	5.45*	5.89*	5.89*
2067	1	0.28	0.08	1.5	0.0	0.1	-48.8	-16.7	-16.8	5.45*	5.45*	5.45*	5.45*
2067	2	1.06	0.08	1.3	0.0	0.0	-48.8	4.4	16.1	5.45*	5.45*	5.89*	5.89*
2067	3	1.06	0.32	1.3	0.0	0.0	-46.2	2.5	-16.1	5.45*	5.45*	5.89*	5.89*
2067	4	0.28	0.32	1.5	0.0	-0.1	-46.3	-9.8	16.9	5.45*	5.45*	5.45*	5.45*
2194	1	0.36	0.08	-3.1	0.0	-0.1	-35.9	45.6	-30.9	5.45*	5.45*	5.89*	5.89*
2194	2	1.35	0.08	-3.1	-0.1	0.4	-36.0	-112.4	22.5	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-3.0	0.0	-0.4	-34.6	-1.4	-22.5	5.45*	5.45*	5.45*	5.45*
2194	4	0.36	0.32	-3.2	0.0	0.1	-34.5	43.4	30.9	5.45*	5.45*	5.89*	5.89*
2195	1	0.32	0.08	-3.2	0.0	-0.1	-35.8	21.6	-22.4	5.45*	5.45*	5.89*	5.89*
2195	2	1.19	0.08	-3.2	-0.2	0.0	-35.8	-21.4	34.3	5.45*	5.45*	5.45*	5.45*
2195	3	1.19	0.32	-3.2	-0.2	0.0	-34.4	-53.0	-34.3	5.45*	5.45*	5.45*	5.45*
2195	4	0.32	0.32	-3.3	0.0	0.0	-34.3	22.7	22.4	5.45*	5.45*	5.89*	5.89*
2196	1	0.28	0.08	3.3	0.0	0.1	-35.7	-20.4	-20.1	5.45*	5.45*	5.45*	5.45*
2196	2	1.06	0.08	3.2	0.0	0.0	-35.7	5.4	19.6	5.45*	5.45*	5.89*	5.89*
2196	3	1.06	0.32	3.2	0.0	0.0	-34.2	3.0	-19.6	5.45*	5.45*	5.89*	5.89*
[illegible]3	4	0.28	0.32	3.2	0.0	-0.1	-34.3	-11.5	20.1	5.45*	5.45*	5.45*	5.45*
[illegible]	1	0.36	0.08	-2.7	0.0	0.0	2.2	55.5	-37.1	5.45*	5.45*	5.89*	5.89*
2323	2	1.35	0.08	2.0	-0.4	-0.5	2.0	-123.1	20.3	5.45*	5.45*	5.45*	5.45*
2323	3	1.35	0.32	2.2	-0.2	0.7	2.6	-12.6	-20.3	5.45*	5.45*	5.45*	5.45*
2323	4	0.36	0.32	-2.9	0.0	0.0	2.6	53.4	37.2	5.45*	5.45*	5.89*	5.89*
2324	1	0.32	0.08	-7.8	0.0	0.0	2.6	25.9	-27.0	5.45*	5.45*	5.89*	5.89*
2324	2	1.19	0.08	-5.5	0.0	0.2	2.5	-29.4	43.4	5.45*	5.45*	5.45*	5.45*
2324	3	1.19	0.32	-5.3	0.0	-0.1	2.9	-60.8	-43.4	5.45*	5.45*	5.45*	5.45*
2324	4	0.32	0.32	-7.9	-0.1	0.0	2.9	27.0	27.0	5.45*	5.45*	5.89*	5.89*
2325	1	0.28	0.08	9.0	0.1	0.0	2.8	-23.7	-23.6	5.45*	5.45*	5.45*	5.45*
2325	2	1.06	0.08	9.6	0.0	0.0	2.8	6.4	23.8	5.45*	5.45*	5.89*	5.89*
2325	3	1.06	0.32	9.6	0.0	0.0	3.0	4.0	-23.8	5.45*	5.45*	5.89*	5.89*
2325	4	0.28	0.32	8.9	0.0	0.1	3.0	-14.8	23.6	5.45*	5.45*	5.45*	5.45*
2452	1	0.36	0.08	-2.6	0.1	0.0	27.3	53.3	-35.9	5.89*	5.89*	5.89*	5.89*
2452	2	1.35	0.08	4.8	-0.7	-1.0	27.0	-64.3	15.2	5.45*	5.45*	5.45*	5.45*
2452	3	1.35	0.32	5.2	-0.3	1.2	25.8	-66.1	-15.1	5.45*	5.45*	5.45*	5.45*
2452	4	0.36	0.32	-2.9	0.0	-0.1	25.8	53.2	35.9	5.89*	5.89*	5.89*	5.89*
2453	1	0.32	0.08	-10.8	-0.1	0.0	27.9	25.4	-26.1	6.14	5.45*	5.89*	5.89*
2453	2	1.19	0.08	-7.1	0.1	0.4	27.7	-44.1	43.3	5.45*	5.45*	5.45*	5.45*
2453	3	1.19	0.32	-6.9	0.0	-0.2	26.1	-43.6	-43.3	5.45*	5.45*	5.45*	5.45*
2453	4	0.32	0.32	-10.9	-0.1	0.0	26.0	25.4	26.2	6.05	5.45*	5.89*	5.89*
454	1	0.28	0.08	12.7	0.1	-0.1	28.2	-18.5	-22.5	5.45*	6.89	5.45*	5.45*
2454	2	1.06	0.08	13.8	0.0	0.0	28.3	5.0	23.1	5.45*	7.30	5.89*	5.89*
2454	3	1.06	0.32	13.8	0.0	0.0	26.0	5.1	-23.1	5.45*	7.14	5.89*	5.89*
2454	4	0.28	0.32	12.6	0.0	0.1	26.1	-18.7	22.4	5.45*	6.69	5.45*	5.45*
2581	1	0.36	0.08	-3.7	0.0	-0.1	-54.3	30.9	-22.0	5.45*	5.45*	5.89*	5.89*
2581	2	1.35	0.08	-6.3	-0.1	1.1	-53.9	-40.2	20.7	5.45*	5.45*	5.45*	5.45*
2581	3	1.35	0.32	-6.0	0.2	-0.8	-60.8	-41.5	-20.8	5.45*	5.45*	5.45*	5.45*
2581	4	0.36	0.32	-3.9	-0.1	0.1	-60.1	20.9	21.9	5.45*	5.45*	5.89*	5.89*
2582	1	0.32	0.08	-1.2	0.1	-0.1	-55.0	15.9	-15.9	5.45*	5.45*	5.89*	5.89*
2582	2	1.19	0.08	-2.6	-0.2	-0.1	-54.7	-26.4	22.8	5.45*	5.45*	5.45*	5.45*
2582	3	1.19	0.32	-2.4	-0.2	0.2	-59.8	-25.9	-22.9	5.45*	5.45*	5.45*	5.45*
2582	4	0.32	0.32	-1.4	0.1	0.1	-59.4	15.9	15.8	5.45*	5.45*	5.89*	5.89*
2583	1	0.28	0.08	0.8	0.0	0.1	-55.1	-11.3	-14.6	5.45*	5.45*	5.45*	5.45*
2583	2	1.06	0.08	0.3	0.0	0.0	-55.2	2.9	13.7	5.45*	5.45*	5.89*	5.89*
2583	3	1.06	0.32	0.4	0.0	0.0	-59.1	3.0	-13.7	5.45*	5.45*	5.89*	5.89*
2583	4	0.28	0.32	0.2	0.0	-0.1	-59.2	-11.4	14.7	5.45*	5.45*	5.45*	5.45*
2962	1	0.36	0.08	-0.7	0.2	-0.2	9.8	25.1	-17.3	5.89*	5.89*	5.89*	5.89*
2962	2	1.35	0.08	2.3	-1.2	-0.1	9.6	-30.7	10.1	5.45*	5.45*	5.45*	5.45*
2962	3	1.35	0.32	4.1	0.5	1.3	-7.0	-32.4	-10.3	5.45*	5.45*	5.45*	5.45*
962	4	0.36	0.32	-1.9	-0.1	-0.2	-5.9	25.1	17.1	5.45*	5.45*	5.89*	5.89*
2963	1	0.32	0.08	-5.7	0.0	-0.1	7.2	12.3	-12.6	5.45*	5.45*	5.89*	5.89*
2963	2	1.19	0.08	-4.2	0.1	0.5	8.0	-21.1	19.7	5.45*	5.45*	5.45*	5.45*
2963	3	1.19	0.32	-3.2	0.0	0.1	-4.6	-20.6	-20.0	5.45*	5.45*	5.45*	5.45*
2963	4	0.32	0.32	-6.3	-0.1	-0.1	-3.6	12.3	12.4	5.45*	5.45*	5.89*	5.89*
2964	1	0.28	0.08	7.2	0.1	0.0	6.9	-8.8	-10.9	5.45*	5.45*	5.45*	5.45*
2964	2	1.06	0.08	7.6	0.0	0.0	6.8	2.4	11.0	5.45*	5.45*	5.89*	5.89*
2964	3	1.06	0.32	7.7	0.0	0.0	-3.0	2.4	-11.0	5.45*	5.45*	5.89*	5.89*
2964	4	0.28	0.32	6.8	-0.1	0.2	-3.1	-9.0	11.0	5.45*	5.45*	5.45*	5.45*
2965	1	0.36	0.08	-2.8	0.1	0.1	62.6	15.7	-9.8	5.89*	5.89*	5.89*	5.89*
2965	2	1.35	0.08	3.0	-1.0	-1.7	63.4	-12.7	-5.4	5.89*	8.02	5.89*	5.89*
2965	3	1.35	0.32	3.7	-0.4	2.1	56.9	-20.8	3.2	5.45*	7.90	5.45*	5.45*
2965	4	0.36	0.32	-2.5	0.0	-0.2	57.9	15.8	9.6	5.89*	5.89*	5.89*	5.89*
2966	1	0.32	0.08	-14.1	-0.1	0.0	61.7	6.6	-7.2	9.91	5.45*	5.89*	5.89*
2966	2	1.19	0.08	-8.7	0.3	0.5	62.4	-13.5	14.6	7.83	5.89*	5.89*	5.89*
2966	3	1.19	0.32	-8.3	0.3	-0.3	59.2	-11.2	-14.8	7.45	5.89*	5.89*	5.89*
2966	4	0.32	0.32	-14.4	-0.1	-0.1	60.1	6.5	7.8	9.88	5.45*	5.89*	5.89*
2967	1	0.28	0.08	17.0	0.1	-0.2	61.6	-4.7	-5.3	5.45*	11.00	5.45*	5.45*
2967	2	1.06	0.08	18.6	0.0	0.0	61.6	1.4	6.6	5.45*	11.58	5.89*	5.89*
2967	3	1.06	0.32	18.6	0.0	0.0	60.7	1.6	-6.6	5.45*	11.53	5.89*	5.89*
2967	4	0.28	0.32	16.8	0.0	0.2	60.6	-5.3	5.3	5.45*	10.85	5.45*	5.45*

2968	1	0.36	0.08	-3.4	0.1	0.1	50.6	28.5	-18.9	5.89*	5.89*	5.89*	5.89*
2968	2	1.35	0.08	7.0	-0.7	-1.5	51.3	-29.9	3.3	5.89*	6.38	5.89*	5.89*
2968	3	1.35	0.32	7.0	-0.7	1.5	48.6	-27.4	-3.5	5.89*	6.20	5.89*	5.89*
2968	4	0.36	0.32	-3.4	0.1	-0.1	49.5	28.6	18.7	5.89*	5.89*	5.89*	5.89*
2969	1	0.32	0.08	-14.2	-0.1	0.0	49.7	13.2	-13.8	9.04	5.45*	5.89*	5.89*
2969	2	1.19	0.08	-9.0	0.2	0.4	50.5	-24.2	24.0	7.15	5.45*	5.45*	5.45*
2969	3	1.19	0.32	-9.0	0.2	-0.4	50.6	-22.1	-24.2	7.16	5.45*	5.45*	5.45*
2969	4	0.32	0.32	-14.2	-0.1	0.0	51.6	13.1	13.6	9.18	5.45*	5.89*	5.89*
2970	1	0.28	0.08	16.6	0.1	-0.1	49.5	-9.4	-11.3	5.45*	9.94	5.45*	5.45*
2970	2	1.06	0.08	18.1	0.0	0.0	49.5	2.6	12.3	5.45*	10.50	5.89*	5.89*
2970	3	1.06	0.32	18.1	0.0	0.0	52.3	2.8	-12.3	5.45*	10.71	5.89*	5.89*
2970	4	0.28	0.32	16.6	0.1	0.1	52.1	-10.0	11.4	5.45*	10.13	5.45*	5.45*
3097	1	0.36	0.08	-3.5	0.0	0.1	33.6	26.0	-17.3	5.89*	5.89*	5.89*	5.89*
3097	2	1.35	0.08	5.4	-0.3	-1.3	34.2	-30.9	3.7	5.89*	5.89*	5.89*	5.89*
3097	3	1.35	0.32	4.9	-0.7	1.0	34.3	-31.0	-3.8	5.89*	5.89*	5.89*	5.89*
3097	4	0.36	0.32	-3.2	0.1	0.0	35.2	26.1	17.1	5.89*	5.89*	5.89*	5.89*
3098	1	0.32	0.08	-12.3	-0.1	0.0	32.9	12.1	-12.7	7.07	5.45*	5.89*	5.89*
098	2	1.19	0.08	-7.8	0.1	0.2	33.5	-21.2	21.8	5.45*	5.45*	5.45*	5.45*
098	3	1.19	0.32	-8.1	0.2	-0.3	36.1	-21.2	-22.0	5.72	5.45*	5.45*	5.45*
3098	4	0.32	0.32	-12.1	-0.1	0.0	36.9	12.1	12.4	7.31	5.45*	5.89*	5.89*
3099	1	0.28	0.08	14.1	0.0	-0.1	32.7	-8.9	-10.4	5.45*	7.76	5.45*	5.45*
3099	2	1.06	0.08	15.4	0.0	0.0	32.7	2.5	11.2	5.45*	8.24	5.89*	5.89*
3099	3	1.06	0.32	15.4	0.0	0.0	37.5	2.5	-11.2	5.45*	8.59	5.89*	5.89*
3099	4	0.28	0.32	14.2	0.1	0.1	37.4	-8.9	10.5	5.45*	8.14	5.45*	5.45*
3226	1	0.36	0.08	-3.4	-0.1	0.1	-8.0	27.7	-19.1	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	1.2	0.2	-0.6	-7.5	-34.9	11.4	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	0.2	-0.8	0.0	-2.0	-34.9	-11.6	5.45*	5.45*	5.45*	5.45*
26	4	0.36	0.32	-2.8	0.1	0.1	-1.2	27.8	19.0	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	-7.2	-0.1	0.0	-8.7	13.6	-13.9	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	-4.9	-0.1	-0.1	-8.1	-23.1	21.8	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	-5.4	0.0	-0.3	-0.7	-23.1	-22.0	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	-6.9	0.0	0.1	0.0	13.6	13.8	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	7.8	0.0	-0.1	-8.8	-9.9	-12.2	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	8.5	0.0	0.0	-8.8	2.6	12.2	5.45*	5.45*	5.89*	5.89*
3228	3	1.06	0.32	8.4	0.0	0.1	0.4	2.6	-12.2	5.45*	5.45*	5.89*	5.89*
3228	4	0.28	0.32	8.1	0.1	-0.1	0.3	-9.8	12.2	5.45*	5.45*	5.45*	5.45*
55	1	0.36	0.08	-4.1	-0.1	-0.1	-71.6	26.0	-18.8	5.45*	5.45*	5.89*	5.89*
55	2	1.35	0.08	-7.7	0.6	1.1	-71.2	-36.6	20.3	5.45*	5.45*	5.45*	5.45*
3355	3	1.35	0.32	-8.0	0.2	-1.3	-68.1	-33.6	-20.5	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.9	-0.1	0.1	-67.3	25.9	18.6	5.45*	5.45*	5.89*	5.89*
3356	1	0.32	0.08	0.0	0.0	0.0	-72.4	13.6	-13.6	5.45*	5.45*	5.89*	5.89*
3356	2	1.19	0.08	-1.8	-0.2	-0.3	-72.0	-21.7	18.6	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-1.9	-0.2	0.2	-67.1	-22.6	-18.7	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	0.1	0.1	0.0	-66.6	13.6	13.5	5.45*	5.45*	5.89*	5.89*
3357	1	0.28	0.08	-1.0	0.0	0.1	-72.6	-9.8	-12.7	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	-1.5	0.0	0.0	-72.6	2.5	11.6	5.45*	5.45*	5.89*	5.89*
3357	3	1.06	0.32	-1.5	0.0	0.0	-66.4	2.5	-11.6	5.45*	5.45*	5.89*	5.89*
3357	4	0.28	0.32	-0.9	0.0	-0.1	-66.5	-9.6	12.7	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	0.6	0.2	0.0	-289.1	8.7	-14.1	2.72*	2.72*	2.94*	2.94*
3484	2	1.35	0.04	1.0	2.6	1.5	-364.1	-366.2	31.5	2.72*	2.72*	2.72*	2.72*
3484	3	1.35	0.16	2.0	2.8	3.6	-350.8	-363.5	14.1	2.72*	2.72*	2.72*	2.72*
3484	4	0.36	0.16	1.6	0.5	0.1	-275.8	11.4	-31.6	2.72*	2.72*	2.94*	2.94*
3485	1	0.32	0.04	-5.9	0.3	0.9	-340.3	-5.7	-29.2	2.72*	2.72*	2.72*	2.72*
3485	2	1.19	0.04	-6.2	-1.3	-0.1	-319.6	98.0	23.6	2.72*	2.72*	3.67	3.35
3485	3	1.19	0.16	-6.5	-1.4	-0.2	-302.1	101.5	29.1	2.72*	2.72*	3.83	3.45
5	4	0.32	0.16	-6.2	0.2	0.8	-322.8	-2.1	-23.7	2.72*	2.72*	2.72*	2.72*
6	1	0.28	0.04	-11.1	-0.2	0.3	-329.1	5.0	-28.1	2.72*	2.72*	2.94*	2.94*
3486	2	1.06	0.04	-11.1	-0.2	0.1	-335.9	-29.2	30.2	2.72*	2.72*	2.72*	2.72*
3486	3	1.06	0.16	-11.3	-0.2	0.1	-314.3	-24.9	28.1	2.72*	2.72*	2.72*	2.72*
3486	4	0.28	0.16	-11.2	-0.2	0.3	-307.4	9.3	-30.2	2.72*	2.72*	2.94*	2.94*

Hipótesis de máxima torsión

COMPROBACIÓN DE HIPÓTESIS DE CARGA NO SÍSMICAS

Con el fin de evaluar el comportamiento de los estribos frente a las cargas no sísmicas se estudia la hipótesis más desfavorable en cada uno de ellos.



a) Axiles y momentos en los estribos

Los valores en cimiento son ligeramente inferiores y en axiles negativos: (Elemento 1291)

N x (tn pet) =	571 T/m
pet + hs.	-11
pet long (prec)	-1,5
pet long Fp.	104
pet long inf	-52
	597 T/m

$V_s = 0.60 \cdot 597 \cdot 1.5 = 358\ T \qquad A_s = \frac{358}{5.1} 1.15 = 81\ cm^2$

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____

FECHA _____

b) Esfuerzo cortante

Elemento 1281 N_{eq} = 56.

V_{d1} = 1.5 · 0.40 · 56 = 33.60 (b = 0.50)

V_{d2} = 67.20 (b = 0.80)

HIPOTESIS NUMERO 3

hipo 3 c.permanente + s.uso (1 via) (simetrico + antimetrico)

ARMADURA EN ELEMENTOS

fcd= 4000 fyd= 4.3
Ct = 1.5 Cs = 1.5

ELEM.	P.	x	y	Mx	My	Mxy	Nx	Ny	Nxy	AsupX	AinfX	AsupY	AinfY
379	1	0.36	0.08	3.6	-0.1	0.6	309.3	-59.8	30.8	21.61	22.80	5.89*	5.89*
379	2	1.35	0.08	35.0	0.1	-7.4	320.3	97.1	-52.2	8.21	16.62	5.89*	9.05
379	3	1.35	0.32	32.9	-2.7	5.2	258.7	87.3	49.6	5.89*	31.20	7.47	5.89*
379	4	0.36	0.32	5.3	0.4	-0.7	270.1	-59.7	-33.4	17.90	20.80	5.89*	5.89*
380	1	0.32	0.08	-27.7	-0.6	0.0	294.4	-33.8	21.8	31.57	9.85	5.89*	5.89*
380	2	1.19	0.08	-11.3	1.0	0.4	304.3	52.6	-28.2	25.60	17.32	5.89*	5.89*
380	3	1.19	0.32	-12.7	1.3	-1.9	278.7	52.4	25.6	24.38	15.31	5.89*	5.89*
380	4	0.32	0.32	-26.9	-0.4	-0.6	288.8	-33.7	-24.4	30.86	9.78	5.89*	5.89*
381	1	0.28	0.08	34.4	-0.2	-1.2	288.7	23.6	24.4	6.46	33.89	5.89*	5.89*
381	2	1.06	0.08	39.6	0.0	-0.2	280.0	-5.6	-18.0	5.89*	35.40	5.89*	5.89*
381	3	1.06	0.32	39.6	-0.1	-0.6	304.9	-5.9	20.5	5.89*	37.12	5.89*	5.89*
381	4	0.28	0.32	35.0	0.1	0.3	296.1	23.6	-21.8	6.78	34.62	5.89*	5.89*
382	1	0.36	0.08	0.9	-0.2	0.0	39.0	-41.5	19.1	5.89*	5.89*	5.89*	5.89*
382	2	1.35	0.08	8.9	1.2	-2.4	49.4	52.5	-15.8	5.45*	7.04	5.89*	5.89*
382	3	1.35	0.32	6.4	-1.3	0.4	-16.3	53.4	13.4	5.45*	5.45*	5.89*	5.89*
382	4	0.36	0.32	2.4	0.2	-0.4	-5.5	-41.4	-21.6	5.45*	5.45*	5.45*	5.45*
383	1	0.32	0.08	-5.1	-0.2	-0.3	23.3	-20.8	13.5	5.45*	5.45*	5.45*	5.45*
383	2	1.19	0.08	-1.1	0.2	-0.6	32.7	34.9	-23.9	5.89*	5.89*	5.89*	5.89*
383	3	1.19	0.32	-2.3	0.5	-0.9	1.6	34.5	21.4	5.45*	5.45*	5.89*	5.89*
383	4	0.32	0.32	-4.5	-0.1	-0.6	11.3	-20.7	-16.0	5.45*	5.45*	5.45*	5.45*
384	1	0.28	0.08	6.8	-0.2	-0.8	17.2	15.1	14.3	5.45*	5.45*	5.89*	5.89*
384	2	1.06	0.08	7.2	0.0	-0.4	9.0	-4.1	-11.5	5.45*	5.45*	5.45*	5.45*
384	3	1.06	0.32	7.3	0.0	-0.6	26.0	-4.4	13.9	5.45*	5.45*	5.45*	5.45*
384	4	0.28	0.32	6.5	0.1	-0.3	17.7	15.1	-11.9	5.45*	5.45*	5.89*	5.89*
385	1	0.36	0.08	-0.7	-0.2	-0.3	-92.4	-10.5	2.6	5.45*	5.45*	5.45*	5.45*
385	2	1.35	0.08	-6.8	1.2	0.5	-81.9	8.2	9.7	5.45*	5.45*	5.89*	5.89*
385	3	1.35	0.32	-7.6	-0.4	-2.0	-162.8	8.1	-12.1	5.45*	5.45*	5.45*	5.45*
385	4	0.36	0.32	-0.2	0.1	-0.2	-151.9	-10.5	-5.0	5.45*	5.45*	5.45*	5.45*
386	1	0.32	0.08	-4.9	0.1	-0.5	-109.2	-7.4	1.6	5.45*	5.45*	5.45*	5.45*
386	2	1.19	0.08	-7.8	-0.3	-0.9	-99.7	7.5	-9.7	5.45*	5.45*	5.89*	5.89*
386	3	1.19	0.32	-8.2	-0.1	-0.3	-145.2	7.5	7.2	5.45*	5.45*	5.89*	5.89*
386	4	0.32	0.32	-5.3	0.1	-0.5	-135.5	-3.2	-4.1	5.45*	5.45*	5.45*	5.45*
387	1	0.28	0.08	-3.1	-0.1	-0.4	-115.7	2.0	2.6	5.45*	5.45*	5.89*	5.89*
387	2	1.06	0.08	-3.6	0.4	-0.5	-124.0	-0.9	-1.6	5.45*	5.45*	5.45*	5.45*
387	3	1.06	0.32	-3.7	0.0	-0.5	-121.0	-1.1	4.1	5.45*	5.45*	5.45*	5.45*
387	4	0.28	0.32	-3.2	0.1	-0.6	-129.7	2.0	-0.1	5.45*	5.45*	5.89*	5.89*
514	1	0.36	0.08	-0.9	-0.2	-0.4	-117.6	17.5	-11.4	5.45*	5.45*	5.89*	5.89*
514	2	1.35	0.08	-8.9	1.1	1.5	-188.1	-27.6	21.3	5.45*	5.45*	5.89*	5.89*
514	3	1.35	0.32	-10.4	0.0	-2.5	-189.3	28.5	-23.6	5.45*	5.45*	5.45*	5.45*
514	4	0.36	0.32	-2.4	0.0	-0.1	-179.4	17.5	9.1	5.45*	5.45*	5.89*	5.89*
515	1	0.32	0.08	-10.5	0.1	-0.5	-133.7	11.0	-8.4	5.45*	5.45*	5.89*	5.89*
515	2	1.19	0.08	-14.1	-0.4	-0.9	-124.6	-16.2	5.4	5.45*	5.45*	5.45*	5.45*
515	3	1.19	0.32	-14.5	-0.2	0.0	-173.4	-16.0	-7.8	5.45*	5.45*	5.45*	5.45*
515	4	0.32	0.32	-11.1	0.2	-0.4	-164.2	11.1	6.8	5.45*	5.45*	5.89*	5.89*

516	1	0.28	0.08	-13.4	0.0	-0.2	-139.9	-7.7	-6.5	5.45*	5.45*	5.45*	5.45*
516	2	1.06	0.08	-15.9	-0.1	-0.5	-147.8	2.3	6.8	5.45*	5.45*	5.45*	5.45*
516	3	1.06	0.32	-15.8	-0.1	-0.5	-150.5	2.1	-4.5	5.45*	5.45*	5.45*	5.45*
516	4	0.28	0.32	-13.3	0.1	-0.6	-158.4	-7.8	8.8	5.45*	5.45*	5.45*	5.45*
643	1	0.36	0.08	-2.2	-0.1	-0.5	-125.5	40.6	-22.8	5.45*	5.45*	5.89*	5.89*
643	2	1.35	0.08	-13.2	0.8	2.1	-116.4	-56.5	28.9	5.45*	5.45*	5.45*	5.45*
643	3	1.35	0.32	-13.7	0.2	-2.8	-196.1	-57.9	-31.1	5.45*	5.45*	5.45*	5.45*
643	4	0.36	0.32	-2.0	0.0	-0.1	-186.7	40.6	20.6	5.45*	5.45*	5.89*	5.89*
644	1	0.32	0.08	11.3	0.2	-0.5	-141.0	22.6	-16.6	5.45*	5.45*	5.89*	5.89*
644	2	1.19	0.08	4.7	-0.6	-0.8	-132.3	-35.6	18.4	5.45*	5.45*	5.45*	5.45*
644	3	1.19	0.32	4.5	-0.5	0.1	-180.9	-35.2	-20.7	5.45*	5.45*	5.45*	5.45*
644	4	0.32	0.32	11.2	0.2	-0.3	-172.1	22.7	14.3	5.45*	5.45*	5.89*	5.89*
645	1	0.28	0.08	-14.8	0.1	-0.1	-147.0	-16.3	-13.7	5.45*	5.45*	5.45*	5.45*
645	2	1.06	0.08	-18.1	-0.1	-0.5	-154.5	5.2	13.6	6.48	5.45*	5.89*	5.89*
645	3	1.06	0.32	-17.9	-0.1	-0.4	-159.1	5.0	-11.4	6.41	5.45*	5.89*	5.89*
645	4	0.28	0.32	-14.9	0.1	-0.6	-166.6	-16.4	15.9	5.45*	5.45*	5.45*	5.45*
772	1	0.36	0.08	-3.5	0.0	-0.6	-127.1	59.2	-31.8	5.45*	5.45*	5.89*	5.89*
7	2	1.35	0.08	-15.4	0.6	2.5	-119.0	-79.7	34.2	5.45*	5.45*	5.45*	5.45*
772	3	1.35	0.32	-15.6	0.3	-3.0	-191.3	-81.3	-36.2	5.45*	5.45*	5.45*	5.45*
772	4	0.36	0.32	-3.5	0.0	0.0	-182.8	59.3	29.9	5.45*	5.45*	5.89*	5.89*
773	1	0.32	0.08	10.8	0.3	-0.5	-141.1	32.0	-23.0	5.45*	5.45*	5.89*	5.89*
773	2	1.19	0.08	3.5	-0.7	-0.8	-133.4	-51.2	29.1	5.45*	5.45*	5.45*	5.45*
773	3	1.19	0.32	3.6	-0.6	0.2	-177.7	-50.8	-31.2	5.45*	5.45*	5.45*	5.45*
773	4	0.32	0.32	10.7	0.3	-0.2	-169.7	32.0	20.9	5.45*	5.45*	5.89*	5.89*
774	1	0.28	0.08	-14.7	0.1	0.0	-146.6	-23.3	-19.4	5.45*	5.45*	5.45*	5.45*
774	2	1.06	0.08	-18.5	-0.1	-0.5	-153.3	7.6	18.9	6.71	5.45*	5.89*	5.89*
77	3	1.06	0.32	-18.4	-0.1	-0.3	-158.2	7.5	-17.0	6.64	5.45*	5.89*	5.89*
;	4	0.28	0.32	-14.8	0.1	-0.6	-164.9	-23.5	21.4	5.45*	5.45*	5.45*	5.45*
901	1	0.36	0.08	-4.7	0.0	-0.5	-127.3	73.3	-38.5	5.45*	5.45*	5.89*	5.89*
901	2	1.35	0.08	-16.7	0.5	2.8	-120.7	-97.0	37.8	5.82	5.45*	5.45*	5.45*
901	3	1.35	0.32	-16.9	0.3	-3.1	-190.6	-98.6	-39.4	5.85	5.45*	5.45*	5.45*
901	4	0.36	0.32	-4.7	0.0	0.1	-173.6	73.3	37.0	5.45*	5.45*	5.89*	5.89*
902	1	0.32	0.08	10.0	0.3	-0.4	-139.0	39.0	-27.7	5.45*	5.45*	5.89*	5.89*
902	2	1.19	0.08	2.5	-0.7	-0.7	-132.6	-62.9	37.4	5.45*	5.45*	5.45*	5.45*
902	3	1.19	0.32	2.5	-0.7	0.3	-169.4	-62.5	-39.1	5.45*	5.45*	5.45*	5.45*
902	4	0.32	0.32	9.9	0.3	-0.1	-162.9	39.0	26.0	5.45*	5.45*	5.89*	5.89*
'	1	0.28	0.08	-14.1	0.2	0.1	-143.6	-28.6	-23.7	5.45*	5.45*	5.45*	5.45*
03	2	1.06	0.08	-18.3	-0.1	-0.4	-149.1	9.6	22.8	6.57	5.45*	5.89*	5.89*
903	3	1.06	0.32	-18.1	-0.1	-0.2	-153.4	9.4	-21.2	6.50	5.45*	5.89*	5.89*
903	4	0.28	0.32	-14.2	0.2	-0.6	-159.0	-28.8	25.4	5.45*	5.45*	5.45*	5.45*
1030	1	0.36	0.08	-5.3	0.0	-0.4	-126.7	83.0	-43.0	5.45*	5.45*	6.04	5.90
1030	2	1.35	0.08	-16.9	0.4	2.9	-122.0	-108.9	39.9	5.92	5.45*	5.45*	5.45*
1030	3	1.35	0.32	-17.1	0.2	-3.0	-165.6	-110.2	-41.1	5.95	5.45*	5.45*	5.45*
1030	4	0.36	0.32	-5.3	0.0	0.2	-160.5	83.0	41.9	5.45*	5.45*	6.22	5.89*
1031	1	0.32	0.08	9.2	0.3	-0.3	-135.2	43.8	-30.8	5.45*	5.45*	5.89*	5.89*
1031	2	1.19	0.08	1.8	-0.7	-0.6	-130.7	-70.9	43.3	5.45*	5.45*	5.45*	5.45*
1031	3	1.19	0.32	1.8	-0.7	0.4	-157.7	-70.6	-44.5	5.45*	5.45*	5.45*	5.45*
1031	4	0.32	0.32	9.2	0.3	0.0	-152.9	43.8	29.6	5.45*	5.45*	5.89*	5.89*
1032	1	0.28	0.08	-13.4	0.2	0.2	-138.6	-32.3	-26.7	5.45*	5.45*	5.45*	5.45*
1032	2	1.06	0.08	-17.7	-0.2	-0.3	-142.6	10.9	25.3	6.25	5.45*	5.89*	5.89*
1032	3	1.06	0.32	-17.6	-0.1	0.0	-146.2	10.9	-24.2	6.21	5.45*	5.89*	5.89*
1032	4	0.28	0.32	-13.5	0.2	-0.5	-150.2	-32.4	27.9	5.45*	5.45*	5.45*	5.45*
1159	1	0.36	0.08	-4.5	0.0	-0.2	-123.0	89.2	-45.7	5.45*	5.45*	6.68	6.17
1159	2	1.35	0.08	-15.0	0.3	2.7	-120.4	-116.4	40.6	5.45*	5.45*	5.45*	5.45*
1159	3	1.35	0.32	-15.3	0.1	-2.6	-145.8	-117.2	-41.3	5.45*	5.45*	5.45*	5.45*
11	4	0.36	0.32	-4.4	0.1	0.5	-142.8	89.2	45.1	5.45*	5.45*	6.65	6.19
11	1	0.32	0.08	8.8	0.3	-0.1	-127.9	46.7	-32.6	5.45*	5.45*	5.89*	5.89*
1160	2	1.19	0.08	2.1	-0.7	-0.3	-125.4	-75.9	42.3	5.45*	5.45*	5.45*	5.45*
1160	3	1.19	0.32	2.0	-0.7	0.5	-141.5	-75.7	-48.0	5.45*	5.45*	5.45*	5.45*
1160	4	0.32	0.32	8.9	0.3	0.2	-138.8	46.7	31.9	5.45*	5.45*	5.89*	5.89*
1161	1	0.28	0.08	-12.8	0.2	0.4	-130.0	-34.6	-28.6	5.45*	5.45*	5.45*	5.45*
1161	2	1.06	0.08	-16.7	-0.2	-0.1	-132.2	11.8	26.8	5.78	5.45*	5.89*	5.89*
1161	3	1.06	0.32	-16.7	-0.2	0.2	-135.1	11.8	-26.1	5.78	5.45*	5.89*	5.89*
1161	4	0.28	0.32	-12.8	0.2	-0.3	-137.4	-34.7	29.3	5.45*	5.45*	5.45*	5.45*
1288	1	0.36	0.04	0.0	0.4	0.1	-164.9	7.8	12.1	2.72*	2.72*	2.94*	2.94*
1288	2	1.35	0.04	-0.5	-1.8	-1.7	-242.0	-377.9	22.3	2.72*	2.72*	2.72*	2.72*
1288	3	1.35	0.16	-1.0	-1.9	-1.8	-237.9	-377.1	9.1	2.72*	2.72*	2.72*	2.72*
1288	4	0.36	0.16	-0.6	0.3	0.1	-160.8	8.6	-1.1	2.72*	2.72*	2.94*	2.94*
1289	1	0.32	0.04	-6.1	0.2	0.0	-210.9	-2.0	-4.0	2.72*	2.72*	2.72*	2.72*
1289	2	1.19	0.04	-6.2	0.0	0.5	-190.2	101.8	-12.5	2.72*	2.72*	3.90	3.52
1289	3	1.19	0.16	-6.0	0.1	0.5	-194.0	101.0	-8.4	2.72*	2.72*	3.77	3.50
1289	4	0.32	0.16	-6.0	0.3	-0.1	-214.7	-2.7	0.1	2.72*	2.72*	2.72*	2.72*
1290	1	0.28	0.04	-11.6	-0.1	0.2	-200.6	5.2	2.6	2.72*	2.72*	2.94*	2.94*
1290	2	1.06	0.04	-11.7	-0.6	-0.1	-206.9	-26.5	5.3	2.72*	2.72*	2.72*	2.72*
1290	3	1.06	0.16	-11.8	-0.7	-0.1	-205.6	-26.2	4.0	2.72*	2.72*	2.72*	2.72*
1290	4	0.28	0.16	-11.7	-0.1	0.1	-199.3	5.4	1.2	2.72*	2.72*	2.94*	2.94*
291	1	0.36	0.08	6.7	0.4	0.8	557.9	-42.8	24.3	38.87	41.23	5.89*	5.89*
1291	2	1.35	0.08	56.0	-2.5	-10.2	571.1	77.1	-69.3	18.11	82.15	7.08	5.89*
1291	3	1.35	0.32	55.9	-2.7	10.3	459.9	70.6	66.3	9.31	84.44	6.74	5.89*
1291	4	0.36	0.32	6.7	0.4	-1.0	473.5	-42.7	-27.4	32.56	35.38	5.89*	5.89*
1292	1	0.32	0.08	-45.5	-0.7	0.2	540.3	-28.1	17.1	55.75	20.45	5.89*	5.89*
1292	2	1.19	0.08	-20.5	1.7	2.0	552.0	39.3	-14.7	46.42	32.35	5.89*	5.89*
1292	3	1.19	0.32	-20.4	1.8	-2.1	485.3	41.1	11.6	41.77	27.39	5.89*	5.89*
1292	4	0.32	0.32	-45.7	-0.8	-0.6	497.2	-28.1	-20.2	52.86	12.13	5.89*	5.89*
1293	1	0.28	0.08	57.8	0.0	-1.3	533.8	18.8	22.7	14.55	40.27	5.89*	5.89*
1293	2	1.06	0.08	65.5	-0.1	0.0	523.4	-3.2	-13.4	10.37	62.68	5.89*	5.89*
1293	3	1.06	0.32	65.7	0.0	-0.4	516.8	-3.3	16.5	9.78	62.32	5.89*	5.89*
1293	4	0.28	0.32	57.5	0.0	1.0	506.3	18.2	-19.6	12.59	58.30	5.89*	5.89*
1672	1	0.36	0.08	-3.3	-0.1	0.2	18.5	-4.2	2.2	5.45*	5.45*	5.45*	5.45*
1672	2	1.35	0.08	2.8	0.4	-1.0	18.6	5.7	-3.9	5.89*	5.89*	5.89*	5.89*
1672	3	1.35	0.32	1.2	-1.0	0.1	28.7	6.6	3.8	5.89*	5.89*	5.89*	5.89*
1672	4	0.36	0.32	-2.3	0.2	0.1	29.2	-4.1	-2.3	5.89*	5.89*	5.89*	5.89*
1673	1	0.32	0.08	-7.2	0.0	0.1	18.9	-2.5	1.6	5.45*	5.45*	5.45*	5.45*
1673	2	1.19	0.08	-4.7	0.8	-0.1	19.0	3.9	-1.8	5.45*	5.45*	5.89*	5.89*
1673	3	1.19	0.32	-5.6	0.2	-0.3	29.5	3.6	1.8	5.45*	5.45*	5.89*	5.89*
673	4	0.32	0.32	-6.7	0.1	0.0	29.8	-2.5	-1.6	5.45*	5.45*	5.45*	5.45*
1674	1	0.28	0.08	7.3	0.0	-0.2	18.8	1.8	1.6	5.45*	5.45*	5.89*	5.89*
1674	2	1.06	0.08	7.2	-0.1	0.0	18.6	-0.7	-1.1	5.45*	5.45*	5.45*	5.45*
1674	3	1.06	0.32	7.1	-0.1	0.0	30.4	-0.8	1.2	5.45*	5.45*	5.45*	5.45*
1674	4	0.28	0.32	7.7	0.1	0.0	30.1	1.9	-1.5	5.45*	5.45*	5.89*	5.89*
1675	1	0.36	0.08	-1.6	-0.1	0.1	-74.8	-7.0	2.6	5.45*	5.45*	5.45*	5.45*
1675	2	1.35	0.08	-3.7	0.9	0.3	-74.1	5.5	6.2	5.45*	5.45*	5.89*	5.89*
1675	3	1.35	0.32	-5.2	-0.5	-1.2	-71.8	5.8	-6.4	5.45*	5.45*	5.45*	5.45*
1675	4	0.36	0.32	-0.6	0.1	0.2	-70.7	-6.9	-2.8	5.45*	5.45*	5.45*	5.45*
1676	1	0.32	0.08	2.9	0.0	0.0	-75.8	-2.7	1.7	5.45*	5.45*	5.45*	5.45*
1676	2	1.19	0.08	1.4	-0.2	-0.4	-75.1	5.3	-5.6	5.45*	5.45*	5.89*	5.89*
1676	3	1.19	0.32	0.6	0.0	-0.1	-70.5	5.2	5.4	5.45*	5.45*	5.89*	5.89*
1676	4	0.32	0.32	3.4	0.1	0.0	-69.7	-2.7	-1.9	5.45*	5.45*	5.45*	5.45*
1677	1	0.28	0.08	-4.6	0.0	-0.1	-76.4	2.5	0.8	5.45*	5.45*	5.89*	5.89*
1677	2	1.06	0.08	-5.7	0.0	0.0	-77.0	-1.7	-1.3	5.45*	5.45*	5.45*	5.45*
1677	3	1.06	0.32	-5.8	-0.1	0.0	-68.5	-1.7	1.5	5.45*	5.45*	5.45*	5.45*
1677	4	0.28	0.32	-4.3	0.1	-0.1	-69.3	2.6	-0.6	5.45*	5.45*	5.89*	5.89*
1678	1	0.36	0.08	0.0	-0.1	0.0	-121.4	-6.7	-1.8	5.45*	5.45*	5.45*	5.45*
1678	2	1.35	0.08	-7.1	0.9	1.2	-119.1	3.6	12.4	5.45*	5.45*	5.45*	5.45*
1678	3	1.35	0.32	-8.1	0.1	-1.7	-133.9	2.3	-12.0	5.45*	5.45*	5.45*	5.45*
1678	4	0.36	0.32	-0.6	0.0	0.1	-121.2	-6.7	-2.3	5.45*	5.45*	5.45*	5.45*

1679	1	0.32	0.08	9.2	0.1	0.0	-125.3	-1.9	1.0	5.45*	5.45*	5.45*	5.45*	2323	3	1.35	0.32	11.0	1.1	2.8	-61.5	74.0	18.6	5.45*	5.45*	5.89*	6.67
1679	2	1.19	0.08	5.1	-0.3	-0.5	-133.2	4.4	6.9	5.45*	5.45*	5.89*	5.89*	2323	4	0.36	0.32	3.0	-0.2	-0.3	-46.6	-63.7	-33.0	5.45*	5.45*	5.45*	5.45*
1679	3	1.19	0.32	4.7	-0.2	0.2	-130.2	4.7	5.3	5.45*	5.45*	5.89*	5.89*	2324	1	0.32	0.08	-2.2	-0.1	0.2	44.8	-32.1	20.7	5.89*	5.89*	5.89*	5.89*
1679	4	0.32	0.32	9.5	0.1	0.0	-127.9	-1.9	-1.6	5.45*	5.45*	5.45*	5.45*	2324	2	1.19	0.08	-0.1	0.5	0.8	57.6	51.6	-37.1	5.89*	5.89*	5.89*	5.89*
1680	1	0.28	0.08	-11.9	0.0	0.1	-126.9	2.4	-0.1	5.45*	5.45*	5.89*	5.89*	2324	3	1.19	0.32	1.2	0.4	0.4	-36.2	55.3	33.6	5.45*	5.45*	5.89*	5.89*
1680	2	1.06	0.08	-13.7	0.0	0.0	-128.8	-2.2	-0.6	5.45*	5.45*	5.45*	5.45*	2324	4	0.32	0.32	-3.2	-0.3	-0.1	-23.1	-32.1	-24.1	5.45*	5.45*	5.45*	5.45*
1680	3	1.06	0.32	-13.7	-0.1	0.0	-124.7	-2.2	1.1	5.45*	5.45*	5.45*	5.45*	2325	1	0.28	0.08	4.8	0.0	-0.1	36.5	24.4	21.3	5.89*	5.89*	5.89*	5.89*
1680	4	0.28	0.32	-11.7	0.1	-0.2	-126.7	2.3	0.6	5.45*	5.45*	5.89*	5.89*	2325	2	1.06	0.08	5.5	0.0	0.2	25.1	-7.8	-17.1	5.45*	5.45*	5.45*	5.45*
1807	1	0.36	0.08	1.2	-0.1	0.0	-141.2	-6.9	2.3	5.45*	5.45*	5.45*	5.45*	2325	3	1.06	0.32	5.8	0.1	-0.1	-2.9	-7.8	20.5	5.45*	5.45*	5.45*	5.45*
1807	2	1.35	0.08	-8.6	0.8	1.7	-136.7	6.0	15.0	5.45*	5.45*	5.45*	5.45*	2325	4	0.28	0.32	3.9	-0.2	0.5	-14.4	23.3	-17.9	5.45*	5.45*	5.89*	5.89*
1807	3	1.35	0.32	-9.1	0.4	-1.8	-172.3	2.6	-16.1	5.45*	5.45*	5.45*	5.45*	2452	1	0.36	0.08	6.3	0.4	0.4	345.5	-70.9	35.7	23.14	26.39	5.89*	5.89*
1807	4	0.36	0.32	1.5	-0.1	0.2	-167.5	-9.8	-3.3	5.45*	5.45*	5.45*	5.45*	2452	2	1.35	0.08	33.4	-2.5	-5.2	360.5	107.0	-54.9	12.31	38.42	9.72	6.58
1808	1	0.32	0.08	12.7	0.1	0.0	-148.6	-2.6	1.2	5.45*	5.45*	5.45*	5.45*	2452	3	1.35	0.32	36.1	6.0	7.5	203.0	94.0	51.4	5.45*	28.73	7.14	6.35
1808	2	1.19	0.08	7.2	-0.3	-0.4	-140.6	5.6	-9.1	5.45*	5.45*	5.89*	5.89*	2452	4	0.36	0.32	4.4	-0.1	-0.8	218.4	-70.7	-39.2	14.44	16.85	5.89*	5.89*
1808	3	1.19	0.32	7.1	-0.2	0.4	-165.1	6.5	3.0	5.45*	5.45*	5.89*	5.89*	2453	1	0.32	0.08	-25.5	-0.4	0.2	323.3	-39.3	25.1	32.65	13.01	5.89*	5.89*
1808	4	0.32	0.32	12.8	0.1	0.0	-160.9	-2.6	-2.3	5.45*	5.45*	5.45*	5.45*	2453	2	1.19	0.08	-11.7	1.3	1.7	336.7	59.8	-35.0	27.98	20.08	5.89*	5.89*
1809	1	0.28	0.08	-15.6	0.0	0.1	-151.5	3.2	0.3	5.45*	5.45*	5.89*	5.89*	2453	3	1.19	0.32	-10.1	1.1	-0.6	230.8	63.6	31.5	20.03	12.85	5.89*	5.89*
1	2	1.06	0.08	-17.9	-0.1	0.0	-155.1	-2.8	-0.7	6.36	5.45*	5.45*	5.45*	2453	4	0.32	0.32	-26.7	-0.6	-0.4	244.3	-39.3	-28.6	27.69	6.56	5.89*	5.89*
09	3	1.06	0.32	-17.8	-0.1	0.0	-154.7	-2.8	1.8	6.34	5.45*	5.45*	5.45*	154	1	0.28	0.08	33.9	0.1	-0.6	315.2	28.4	27.9	8.69	35.51	5.89*	5.89*
1809	4	0.28	0.32	-15.6	0.0	-0.1	-158.4	2.9	0.8	5.45*	5.45*	5.89*	5.89*	2454	2	1.06	0.08	38.2	-0.1	0.2	303.4	-7.5	-20.5	5.90	6.44	5.89*	5.89*
1936	1	0.36	0.08	2.2	-0.1	0.0	-141.8	-15.6	5.1	5.45*	5.45*	5.45*	5.45*	2454	3	1.06	0.32	38.6	0.1	-0.2	265.9	-7.5	-24.0	5.89*	34.03	5.89*	5.89*
1936	2	1.35	0.08	-8.5	0.7	1.9	-134.8	15.1	14.0	5.45*	5.45*	5.89*	5.89*	2454	4	0.28	0.32	32.9	-0.2	0.9	254.0	27.3	-24.4	5.89*	30.89	5.89*	5.89*
1936	3	1.35	0.32	-8.6	0.6	-1.5	-193.8	9.3	-15.7	5.45*	5.45*	5.89*	5.89*	2581	1	0.36	0.08	-3.4	0.2	0.1	107.6	9.4	-3.8	8.81	6.56	5.89*	5.89*
1936	4	0.36	0.32	2.2	-0.1	0.2	-186.4	-15.4	-6.8	5.45*	5.45*	5.45*	5.45*	2581	2	1.35	0.08	8.2	-0.9	-1.7	109.3	-7.6	-7.6	5.89*	10.78	5.89*	5.89*
1937	1	0.32	0.08	14.1	0.1	0.1	-153.2	-5.8	3.2	5.45*	5.45*	5.45*	5.45*	2581	3	1.35	0.32	8.2	-0.9	1.7	101.1	-8.6	7.4	5.89*	10.28	5.89*	5.89*
1937	2	1.19	0.08	8.3	-0.3	-0.3	-146.9	10.7	-13.7	5.45*	5.45*	5.89*	5.89*	2581	4	0.36	0.32	-3.4	0.2	-0.1	102.2	9.5	3.6	8.43	6.16	5.89*	5.89*
19	3	1.19	0.32	8.3	-0.2	0.5	-132.3	12.3	11.7	5.45*	5.45*	5.89*	5.89*	2582	1	0.32	0.08	-14.6	0.0	0.0	107.1	3.4	-2.7	12.33	5.89*	5.89*	5.89*
1	4	0.32	0.32	14.0	0.1	0.1	-175.8	-5.8	-4.9	5.45*	5.45*	5.45*	5.45*	2582	2	1.19	0.08	-9.5	0.2	0.5	107.8	-7.2	7.2	11.28	5.89*	5.89*	5.89*
1938	1	0.28	0.08	-16.9	0.0	0.2	-157.6	5.8	2.4	5.86	5.45*	5.89*	5.89*	2582	3	1.19	0.32	-9.5	0.2	-0.4	193.5	-6.9	-7.4	10.99	5.89*	5.89*	5.89*
1938	2	1.06	0.08	-19.2	-0.1	0.1	-163.3	-3.6	-2.3	7.08	5.45*	5.45*	5.45*	2582	4	0.32	0.32	-14.6	0.0	0.0	104.4	3.4	2.5	13.15	5.89*	5.89*	5.89*
1938	3	1.06	0.32	-19.1	0.0	0.1	-166.2	-3.7	4.0	7.03	5.45*	5.45*	5.45*	2583	1	0.28	0.08	16.7	0.1	-0.2	106.9	-2.9	-1.3	5.89*	14.16	5.89*	5.89*
1938	4	0.28	0.32	-17.0	0.0	-0.1	-171.9	5.2	-0.7	5.93	5.45*	5.89*	5.89*	2583	2	1.06	0.08	17.3	-0.1	0.0	106.2	1.4	2.6	5.89*	14.36	5.89*	5.89*
2065	1	0.36	0.08	3.1	-0.1	0.1	-123.8	-27.5	10.2	5.45*	5.45*	5.45*	5.45*	2583	3	1.06	0.32	17.3	-0.1	0.0	105.9	1.4	-2.4	5.89*	14.35	5.89*	5.89*
2065	2	1.35	0.08	-7.0	0.5	1.8	-114.2	31.6	9.3	5.45*	5.45*	5.89*	5.89*	2583	4	0.28	0.32	16.7	0.1	0.2	105.2	-3.0	1.5	5.89*	14.04	5.89*	5.89*
2065	3	1.35	0.32	-6.4	0.9	-0.9	-198.3	23.1	-11.6	5.45*	5.45*	5.89*	5.89*	2962	1	0.36	0.08	-2.4	-0.1	0.1	-51.0	-0.8	0.4	5.45*	5.45*	5.45*	5.45*
2065	4	0.36	0.32	2.7	-0.2	0.2	-198.2	-27.3	-13.0	5.45*	5.45*	5.45*	5.45*	2962	2	1.35	0.08	-0.8	0.9	-0.5	-53.4	-2.0	3.2	5.45*	5.45*	5.45*	5.45*
7	1	0.32	0.08	13.5	0.1	0.1	-139.4	-11.8	7.2	5.45*	5.45*	5.45*	5.45*	2962	3	1.35	0.32	-2.7	-0.8	-0.9	-17.9	1.5	-2.7	5.45*	5.45*	5.45*	5.45*
66	2	1.19	0.08	8.1	-0.1	-0.1	-130.8	20.4	-20.2	5.45*	5.45*	5.89*	5.89*	962	4	0.36	0.32	-1.1	0.1	0.1	-20.0	-0.8	0.2	5.45*	5.45*	5.45*	5.45*
2066	3	1.19	0.32	8.5	-0.2	0.7	-182.2	22.7	17.9	5.45*	5.45*	5.89*	5.89*	2963	1	0.32	0.08	-1.4	0.0	0.0	-47.0	-0.1	0.3	5.45*	5.45*	5.45*	5.45*
2066	4	0.32	0.32	13.1	0.0	0.1	-173.3	-11.8	-9.5	5.45*	5.45*	5.45*	5.45*	2963	2	1.19	0.08	-1.0	-0.1	-0.5	-49.0	0.9	-0.8	5.45*	5.45*	5.45*	5.45*
2067	1	0.28	0.08	-15.7	0.0	0.2	-145.3	10.2	6.5	5.45*	5.45*	5.89*	5.89*	2963	3	1.19	0.32	-2.0	0.1	-0.3	-21.7	-0.1	1.3	5.45*	5.45*	5.45*	5.45*
2067	2	1.06	0.08	-17.6	0.0	0.1	-153.1	-4.9	-5.7	6.21	5.45*	5.45*	5.45*	2963	4	0.32	0.32	-0.9	0.1	0.0	-23.6	-0.1	0.2	5.45*	5.45*	5.45*	5.45*
2067	3	1.06	0.32	-17.4	0.0	0.1	-160.1	-4.9	8.0	6.12	5.45*	5.45*	5.45*	2964	1	0.28	0.08	0.4	-0.1	-0.2	-45.6	0.1	-0.6	5.45*	5.45*	5.45*	5.45*
2067	4	0.28	0.32	-15.9	-0.1	0.1	-167.9	9.5	-4.2	5.45*	5.45*	5.89*	5.89*	2964	2	1.06	0.08	-0.1	0.0	-0.1	-43.8	-0.4	-0.2	5.45*	5.45*	5.45*	5.45*
2194	1	0.36	0.08	3.6	0.0	0.1	-72.3	-44.0	19.0	5.45*	5.45*	5.45*	5.45*	2964	3	1.06	0.32	-0.2	-0.1	-0.1	-26.7	-0.5	-0.3	5.45*	5.45*	5.45*	5.45*
2194	2	1.35	0.08	-3.1	-0.1	1.3	-60.3	55.2	-0.7	5.45*	5.45*	5.89*	5.89*	2964	4	0.28	0.32	0.9	0.1	-0.2	-24.9	0.4	0.0	5.45*	5.45*	5.45*	5.45*
2194	3	1.35	0.32	-1.8	1.1	0.2	-170.7	44.7	-2.2	5.45*	5.45*	5.89*	5.89*	2965	1	0.36	0.08	-1.3	-0.2	0.0	-134.6	5.3	-3.7	5.45*	5.45*	5.89*	5.89*
2194	4	0.36	0.32	2.6	-0.2	0.0	-158.3	-43.8	-21.9	5.45*	5.45*	5.45*	5.45*	2965	2	1.35	0.08	-0.1	1.0	1.2	-136.1	-12.7	16.0	5.45*	5.45*	5.45*	5.45*
2195	1	0.32	0.08	9.3	0.1	0.1	-91.6	-20.4	13.1	5.45*	5.45*	5.45*	5.45*	2965	3	1.35	0.32	-0.8	0.0	-2.0	-117.3	-10.8	-15.6	5.45*	5.45*	5.45*	5.45*
2195	2	1.19	0.08	5.8	0.1	0.2	-80.8	34.1	-28.9	5.45*	5.45*	5.89*	5.89*	2965	4	0.36	0.32	-0.6	0.0	0.1	-118.5	5.3	4.0	5.45*	5.45*	5.89*	5.89*
2195	3	1.19	0.32	6.7	0.0	0.7	-150.3	37.1	26.0	5.45*	5.45*	5.89*	5.89*	2966	1	0.32	0.08	-2.0	0.1	0.0	-132.5	4.2	-2.7	5.45*	5.45*	5.89*	5.89*
2195	4	0.32	0.32	8.6	-0.1	0.0	-139.2	-20.4	-16.0	5.45*	5.45*	5.45*	5.45*	2966	2	1.19	0.08	-2.9	-0.3	-0.6	-133.8	-5.2	0.4	5.45*	5.45*	5.45*	5.45*
2196	1	0.28	0.08	-18.0	0.0	0.2	-98.8	16.4	12.7	5.45*	5.45*	5.89*	5.89*	2966	3	1.19	0.32	-2.9	-0.2	0.2	-119.9	-5.8	-0.1	5.45*	5.45*	5.45*	5.45*
2196	2	1.06	0.08	-11.1	0.0	0.2	-108.5	-6.3	-10.8	5.45*	5.45*	5.45*	5.45*	2966	4	0.32	0.32	-2.1	0.1	0.0	-121.1	4.2	3.0	5.45*	5.45*	5.89*	5.89*
2196	3	1.06	0.32	-10.9	0.1	0.1	-122.5	-6.3	13.6	5.45*	5.45*	5.45*	5.45*	2967	1	0.28	0.08	-16.7	0.0	0.0	-131.9	-2.6	-3.9	5.45*	5.45*	5.45*	5.45*
21	4	0.28	0.32	-10.6	-0.1	0.2	-132.2	15.5	-9.8	5.45*	5.45*	5.89*	5.89*	2967	2	1.06	0.08	-12.5	0.0	0.0	-130.7	-0.1	2.2	5.45*	5.45*	5.45*	5.45*
23	1	0.36	0.08	4.7	0.1	0.2	67.2	-64.0	29.6	5.89*	6.54	5.89*	5.89*	2967	3	1.06	0.32	-12.6	-0.1	-0.1	-123.2	-0.1	-2.5	5.45*	5.45*	5.45*	5.45*
2323	2	1.35	0.08	8.7	-1.0	-0.6	81.7	87.1	-22.0	5.89*	9.15	6.42	6.08	2967	4	0.28	0.32	-10.4	0.1	-0.2	-122.1	-2.4	3.6	5.45*	5.45*	5.45*	5.45*

2968	1	0.36	0.08	-0.5	-0.1	-0.1	-153.1	8.7	-5.8	5.45*	5.45*	5.89*	5.89*
2968	2	1.35	0.08	-10.5	0.7	1.9	-153.6	-17.4	20.0	5.45*	5.45*	5.45*	5.45*
2968	3	1.35	0.32	-10.7	0.5	-2.0	-150.3	-17.1	-19.9	5.45*	5.45*	5.45*	5.45*
2968	4	0.36	0.32	-0.4	-0.1	0.1	-150.4	8.7	5.9	5.45*	5.45*	5.89*	5.89*
2969	1	0.32	0.08	11.1	0.1	0.0	-153.1	6.3	-4.2	5.45*	5.45*	5.89*	5.89*
2969	2	1.19	0.08	5.5	-0.3	-0.5	-153.4	-8.6	1.6	5.45*	5.45*	5.45*	5.45*
2969	3	1.19	0.32	5.4	-0.3	0.4	-151.1	-8.6	-1.8	5.45*	5.45*	5.45*	5.45*
2969	4	0.32	0.32	11.1	0.1	0.0	-151.3	6.3	4.3	5.45*	5.45*	5.89*	5.89*
2970	1	0.28	0.08	-14.1	0.0	0.2	-153.1	-3.9	-5.3	5.45*	5.45*	5.45*	5.45*
2970	2	1.06	0.08	-16.5	-0.1	0.0	-152.8	0.2	3.5	5.62	5.45*	5.45*	5.45*
2970	3	1.06	0.32	-16.5	-0.1	0.0	-152.0	0.2	-3.6	5.64	5.45*	5.45*	5.45*
2970	4	0.28	0.32	-14.1	0.0	-0.2	-151.7	-3.9	5.2	5.45*	5.45*	5.45*	5.45*
3097	1	0.36	0.08	-0.3	0.0	-0.1	-129.7	7.3	-5.1	5.45*	5.45*	5.89*	5.89*
3097	2	1.35	0.08	-9.5	0.2	1.9	-129.2	-14.1	17.5	5.45*	5.45*	5.45*	5.45*
3097	3	1.35	0.32	-8.9	0.8	-1.4	-139.5	-15.5	-17.6	5.45*	5.45*	5.45*	5.45*
3097	4	0.36	0.32	-0.7	-0.1	0.1	-138.5	7.3	4.9	5.45*	5.45*	5.89*	5.89*
3098	1	0.32	0.08	9.5	0.1	0.0	-131.3	5.4	-3.7	5.45*	5.45*	5.89*	5.89*
3098	2	1.19	0.08	4.3	-0.3	-0.3	-130.7	-7.5	1.1	5.45*	5.45*	5.45*	5.45*
3098	3	1.19	0.32	4.7	-0.2	0.5	-138.3	-7.1	-1.3	5.45*	5.45*	5.45*	5.45*
3098	4	0.32	0.32	9.3	0.1	0.0	-137.6	5.4	3.5	5.45*	5.45*	5.89*	5.89*
3099	1	0.28	0.08	-11.9	0.1	0.2	-131.9	-3.2	-4.5	5.45*	5.45*	5.45*	5.45*
3099	2	1.06	0.08	-14.2	-0.1	0.0	-132.5	0.1	3.1	5.45*	5.45*	5.45*	5.45*
3099	3	1.06	0.32	-14.1	0.0	0.0	-136.8	0.1	-3.0	5.45*	5.45*	5.45*	5.45*
3099	4	0.28	0.32	-12.1	0.0	-0.1	-137.4	-3.3	4.7	5.45*	5.45*	5.45*	5.45*
3226	1	0.36	0.08	-0.9	0.1	-0.2	-69.3	2.9	-2.4	5.45*	5.45*	5.89*	5.89*
3226	2	1.35	0.08	-6.0	-0.4	1.4	-68.0	-5.5	9.5	5.45*	5.45*	5.45*	5.45*
3226	3	1.35	0.32	-4.6	0.9	-0.4	-89.6	-8.1	-9.9	5.45*	5.45*	5.45*	5.45*
3226	4	0.36	0.32	-1.9	-0.1	-0.1	-88.0	2.9	2.0	5.45*	5.45*	5.89*	5.89*
3227	1	0.32	0.08	3.7	0.1	0.0	-71.9	2.4	-1.8	5.45*	5.45*	5.89*	5.89*
3227	2	1.19	0.08	0.6	-0.1	0.0	-70.7	-3.5	-0.2	5.45*	5.45*	5.45*	5.45*
3227	3	1.19	0.32	1.4	-0.2	0.5	-86.8	-2.7	-0.1	5.45*	5.45*	5.45*	5.45*
3227	4	0.32	0.32	3.2	0.0	0.0	-85.5	2.4	1.4	5.45*	5.45*	5.89*	5.89*
3228	1	0.28	0.08	-4.7	0.1	0.2	-72.8	-1.2	-2.0	5.45*	5.45*	5.45*	5.45*
3228	2	1.06	0.08	-6.4	-0.1	0.0	-73.9	-0.2	1.5	5.45*	5.45*	5.45*	5.45*
3228	3	1.06	0.32	-6.3	0.0	0.0	-83.5	-0.1	-1.2	5.45*	5.45*	5.45*	5.45*
3228	4	0.28	0.32	-5.1	0.0	0.0	-84.7	-1.5	2.4	5.45*	5.45*	5.45*	5.45*
3355	1	0.36	0.08	-2.4	0.2	-0.1	33.1	0.9	-0.4	5.89*	5.89*	5.89*	5.89*
3355	2	1.35	0.08	1.0	-1.0	0.0	34.5	1.2	-2.4	5.89*	5.89*	5.89*	5.89*
3355	3	1.35	0.32	2.5	0.4	1.0	8.8	-1.8	2.0	5.45*	5.45*	5.45*	5.45*
3355	4	0.36	0.32	-3.4	-0.1	-0.2	10.6	1.0	0.0	5.45*	5.45*	5.45*	5.45*
3356	1	0.32	0.08	-6.6	0.1	0.0	30.7	0.1	-0.4	5.45*	5.45*	5.45*	5.45*
3356	2	1.19	0.08	-5.5	0.1	0.3	32.0	-1.0	0.8	5.45*	5.45*	5.45*	5.45*
3356	3	1.19	0.32	-4.7	0.0	0.1	12.4	-0.1	-1.2	5.45*	5.45*	5.45*	5.45*
3356	4	0.32	0.32	-7.1	0.0	-0.1	13.9	0.1	0.0	5.45*	5.45*	5.45*	5.45*
3357	1	0.28	0.08	7.5	0.2	0.0	29.9	0.0	0.2	5.45*	5.45*	5.45*	5.45*
3357	2	1.06	0.08	6.9	-0.1	0.0	28.6	0.0	0.5	5.45*	5.45*	5.45*	5.45*
3357	3	1.06	0.32	7.8	-0.1	0.0	16.3	0.1	-0.1	5.45*	5.45*	5.45*	5.45*
3357	4	0.28	0.32	7.1	0.0	0.1	15.0	-0.3	0.1	5.45*	5.45*	5.45*	5.45*
3484	1	0.36	0.04	1.8	-0.2	-0.1	267.4	1.0	5.6	9.64	9.58	2.94*	2.94*
3484	2	1.35	0.04	1.5	-1.4	-0.7	261.6	-28.1	-7.0	9.47	9.34	2.94*	2.94*
3484	3	1.35	0.16	1.4	-1.5	-0.7	258.5	-28.7	-8.0	9.37	9.22	2.94*	2.94*
3484	4	0.36	0.16	1.6	-0.2	-0.2	264.3	0.3	4.6	9.56	9.44	2.94*	2.94*
3485	1	0.32	0.04	7.1	-0.1	-0.2	264.5	-0.1	1.9	8.36	10.57	2.94*	2.94*
3485	2	1.19	0.04	7.3	0.9	0.1	266.2	8.1	-4.6	8.37	10.67	2.94*	2.94*
3485	3	1.19	0.16	7.4	0.9	0.1	264.6	7.7	-4.3	8.29	10.63	2.94*	2.94*
3485	4	0.32	0.16	7.2	-0.1	-0.1	262.9	-0.5	2.2	8.28	10.53	2.94*	2.94*
3486	1	0.28	0.04	10.8	0.2	0.0	264.9	0.2	-1.7	7.55	11.33	2.94*	2.94*
3486	2	1.06	0.04	10.8	0.2	0.1	264.4	-2.2	-0.6	7.53	11.32	2.94*	2.94*
3486	3	1.06	0.16	10.8	0.2	0.1	265.5	-2.0	-0.7	7.57	11.36	2.94*	2.94*
3486	4	0.28	0.16	10.8	0.2	0.0	266.0	0.5	-1.8	7.59	11.37	2.94*	2.94*

Armadura total

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PROYECTO _____ HOJA ____ DE ____

FECHA _____

El vano 1 rep ire cuadar a pros con las
cabezas 2 del vano 2

CRITERIOS DE ARMADO - FLEXIÓN

Todas las hipótesis fx cuadrarme el cuadro.
es la hacer dcha c/ apoyo. sin en cada apoyo.

$A_{sup} = A_{inf} = 0,75\ A_{STOTAL}$
$A_{cabeza} = 0,25\ A_{STOTAL}$ }

ARMADURAS DE CORTANTE

* El cálculo resistente hipótesis anteriores:

$b = 0.40$ $Vd_1 = 31.60$

$V_{cu_1} = 5\sqrt{f_{cd}}\ b.d = 5\sqrt{\frac{60}{1.5}} \cdot 0.40 \cdot 0.38 = 15.2\ T$

$V_{su_1} = 31.60 - 15.2 = 18.40 \rightarrow A_s = \frac{18.40}{0.9 \cdot 0.38\ 4.2} = 12.81 \rightarrow$

$b = 0.80$ $Vd_2 = 67.20$

$V_{cu_2} = 5\sqrt{f_{cd}}\ b.d = 5\sqrt{\frac{60}{1.5}}\ 0.80\ 0.38 = 30.4\ T$

$V_{su_2} = 67.2 - 30.40 = 36,80$ $A_{s_2} = \frac{36.8}{0.9 \cdot 0.38\ 4.2} = 25.61 \rightarrow$

* Hf. cubrir resto a la capitela hacia

N_d = 61.71 t.

V_{d1} = 1.5 · 61.050 = 37 T

V_{cu} = 15.20

V_{su} = 37 − 15.20 = 21.80 T $A_s = \frac{21.80}{0.9 \cdot 0.38 \cdot 4.2} = 15.18\ cm^2/m.$

- Capacidad de cortante cubrir c ϕ12 c 20

V_{cu} = $A_s \cdot f_{yd} \cdot 0.9 \cdot d$ = 2.5.65 · 4.2 · 0.9 · 0.38 = 16,23 T

$V_d = V_{su} + V_{cu}$ = 16,23 + 15,20 = 31,43 T

$N_d = \frac{31.43}{1.5 \cdot 0.40}$ = 53 T/m (2 ramas)

V-3 C-1 C-2 ϕ20 c 0.40 + ϕ16 c 0.40
resto c ϕ12 c 20

V-2 C-1 C-10 ϕ20 c 0.40 + ϕ16 c 0.40
resto c ϕ12 c 20

V-1 C-1 cd 20 c 0.40 + ϕ16 c 0.40
resto c ϕ12 c 20

VANO	CAPITEL	A_s TOTAL	$A_{sup} = A_{inf}$	A_{alma}
3	x 1	62	10 ϕ25	5ϕ25
	x x 2	42	7ϕ25	4ϕ20
	x x 3	36	7ϕ25	4ϕ20
	4	30	5ϕ25	3ϕ20
	5	24	5ϕ25	3ϕ20
	6	18	5ϕ20	3ϕ20
	7		"	"
	8			
	9			
	10			
	11		5ϕ20	3ϕ20
2	x 1		5ϕ20	3ϕ20
	x x 2		"	"
	3		"	"
	4		"	"
	5		"	"
	6	19	5ϕ20	3ϕ20
	7	26	5ϕ25	3ϕ20
	8	34	7ϕ25	4ϕ20
	x x 9	41	7ϕ25	4ϕ20
	x x 10	48	7ϕ25	4ϕ20

VARO	CASTILLO	Asuperior	Alados
1	1 a 7	5 ϕ 20	3 ϕ 20.

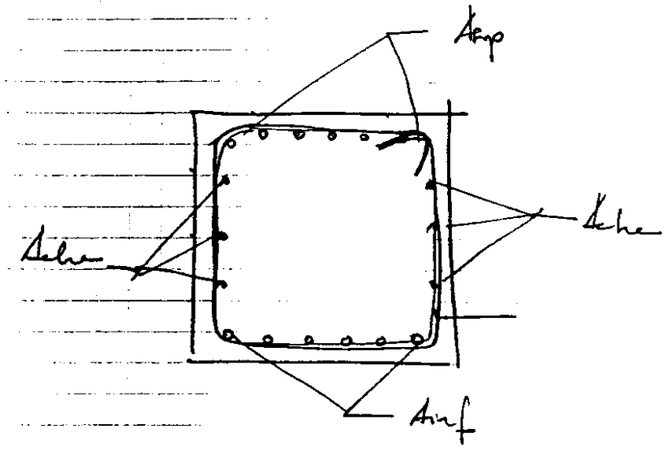
(*) Indicar si se incrementan las dimensiones de la estribadura hasta 0.80 x 0.40

(**) Las dimensiones a incrementar 0.60 x 0.40

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PROYECTO

HOJA ____ DE ____
FECHA



ARMADURA DE COSIDO DE VUELOS

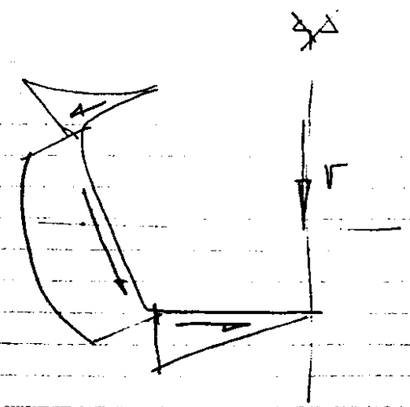
ESTUDIO DEL FLUJO DE TENSIONES TANGENCIALES

OBJETO.

Con el fin de estudiar la cuantía transversal ~~en~~ mínima en las juntas de losa flexión transversal es importante la obtención del flujo de tensiones actuantes en la base de la sección

METODOLOGÍA

Tenemos en cuenta para el cumplimiento final de acciones frontales o cargas una sección choque en tensión sobre un eje de simetría



$$\tau = \frac{V \cdot m}{I \cdot b} \qquad R_q = \frac{V \cdot \pi}{I} = \alpha(s) \cdot V$$

CÁLCULO DE ESFUERZOS RASANTES

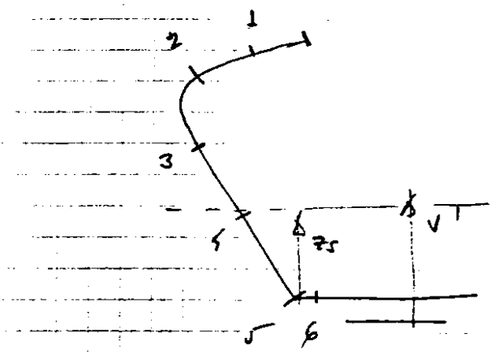
a) Datos de la sección

$e = 0.40$ $\quad \pm = 156.48,4$

$V = 5.37 \quad V' = 3.57$

$e = 0.50$ $\quad \pm = 167.08$

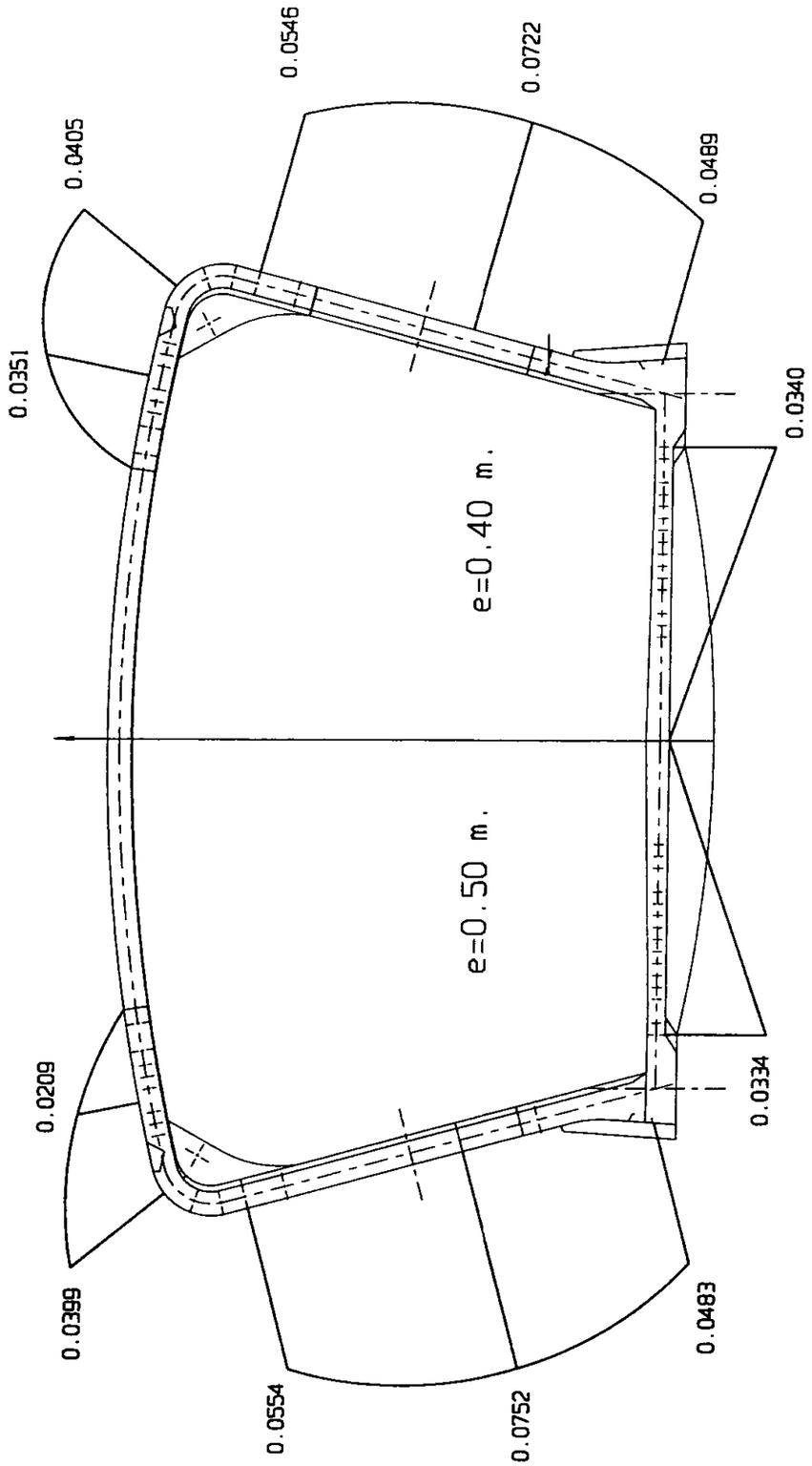
$V = 5.63 \quad V' = 3.68$



$$\eta(i) = A(i) \cdot (Z(i) + 0.40 - V')$$

	e = 0.50				e = 0.40			
Sección	A	Zs	η(i)	α(i)	A	Zs	η(i)	α(i)
1	0.658	8.58	3.487	0.0209	0.623	8.59	5.601	0.0351
2	1.294	8.43	6.665	0.0399	1.227	8.44	6.466	0.0401
3	1.915	8.11	9.245	0.0554	1.749	8.12	8.710	0.0546
4	3.384	6.60	12.563	0.0752	3.244	6.72	11.516	0.0722
5	2.416	-0.06	8.069	0.0483	2.416	-0.06	7.804	0.0489
6	1.688	-0.03	5.587	0.0334	1.688	-0.03	5.402	0.0340

COEFICIENTES DE ESFUERZOS RASANTES (a)
R=a*Vd



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PROYECTO _____ HOJA ____ DE ____
FECHA _____

ARMADURA DE COSIDO DE VUELTA (Semiais).

(sin mayor)

VANO	ALMA	Vd	Sección	Rg	As	Sección	Rg	As
3	2 (0.5)	42m	⊄	210.42	50.10			
	3 (0.5)	37m	⊄	185.37	44.13			
	4 (0.5)	32m	⊥	160.32	38.89	2	192	45.60
	5	2750	⊥	144.38	34.38	2	167.06	39.78
	6	2250	⊥	118.46	28.20	2	136.68	32.54
	7	1850	⊥	97.40	23.19	2	112.38	26.76
	8	1450	⊥	73.71	17.55	2	85.01	20.24
	9	1050						
	10	550						
	11	—						
2	1	—	⊥			2		
	2	1350	⊥	68.4	16.4	2	78.98	18.80
	3	850	⊥			2		
	4	450	⊥			2		
	5	650	⊥			2		
	6	1050	⊥			2		
	7	1550	⊥	78.7	18.7	2	91.12	21.69
	8	1950	⊄	96.9	23.07			
	9 (0.5)	2450	⊄	120.24	28.63			
	10 (0.5)	2900	⊄	145.29	34.59			

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PROYECTO _____ HOJA ____ DE ____
FECHA _____

VANO	ALMA	Vd (sin reguv)	Seccion	Mf	Ms	Seccion	Mf	Ms
1	1	—						
	2	12m	1	63.0	15.0	2	72.80	19.36
	3	7m	1			2		
	4	3m	1			2		
	5	5m	1			2		
	6	850	1			2		
	7 (0.50)	1.50	1	65.81	16.	2	75.94	18.08

OBSERVACIONES

Las secciones comprendidas entre el signo de los momentos flectores en obra, la pantalla estará dentro de la comprimida.

La sección 6 está formada por la armadura de base y 3 redondos

Ø16 cm	10.05	24.18 cm²/m
Ø16 c/0.40 + Ø12 c/0.40	7.54	
redondo Ø12	6.1.14 / 3	

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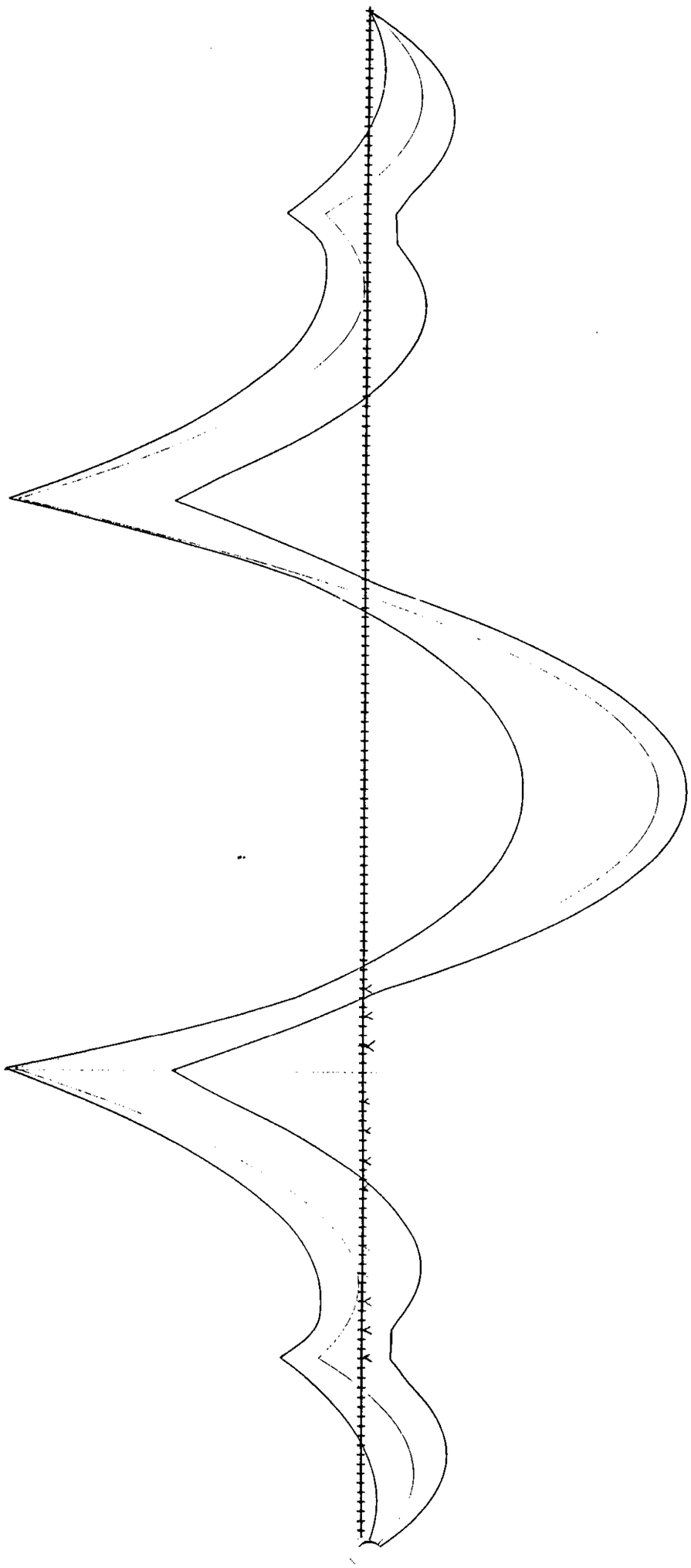
PROYECTO _____ HOJA ____ DE ____
FECHA _____

ARMADURA DE COSIDO DE VUELOS (Proceso constructivo)

VANO	ALMA	Vd (sin reguv)	S-1 Mf	S-1 Ms	S-2 Mf	S-2 Ms	S-6 Mf	S-6 Ms
3	1 (0.50)	2200	68	16.42	132	31.42	110	26.19
	2 (0.50)	2m						
	3 (0.50)	1750						
	4 (0.50)	15m						
	5	13m						
	6	1000	52.50	12.50	60.5	14.96	51.0	12.14
	7	11m						
	8 a 11	1m						
2	1 (0.50)	2000	41.80	9.8				
	2 (0.50)	1700						
	3	15m						
	4	1250						
	5	1m						
	6	9m						
	7	850						
	8	8m						
	9 (0.50)	1m						
3	1 a 4	750						
	Ja 7	950						

proc Puente sobre el Ebro (L.A.V. Zaragoza-LLeida)

Flectores Z Max. Tot. (T=Indef.) (sin Pret.)	M. Z 10000.0
Flectores Z Min. Tot. (T=Indef.) (sin Pret.)	M. Z 10000.0
hipo 279 C.P. (sin P.P. de pilas) +Tren B (2 vias)	M. Z 10000.0



ESTUDIO DE LA ZONA DE APOYOS

OBJETO

La concentración de importantes cargas en la zona de apoyo obliga a un estudio de detalle que permita tener en cuenta las singularidades geométricas y de cargas

METODOLOGÍA

Dado que en el cálculo de E. Finits tradicional se recoge la concentración producida por las compresiones, se plantea sobre la concentración transversal de las vigas

Por ello se realiza un modelo plano de Element finit que permite analizar la posición exacta del apoyo de neopreno teflón.

Sobre el modelo se aplica la carga viva del apoyo, repartida en la longitud y el ancho, mediante cuñas a los lados del eje.

MODELO DE ELEMENTOS FINITOS

a) Geometría adoptada

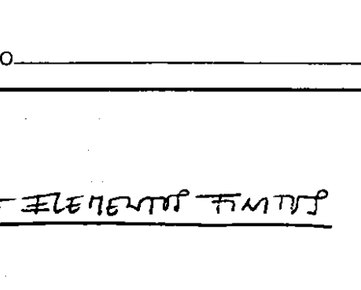
- Sección de viga $b = 2.0$ m
- Sección de cable $b = 0.80$ m

b) Características de los materiales

$E = 3677000.7$ t/m²

$\nu = 0.2$

c) Condiciones de contorno



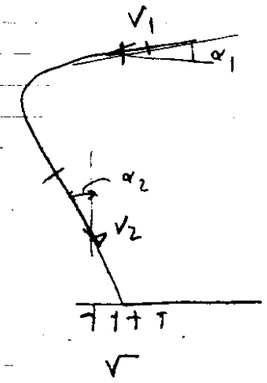
Las hipótesis de cálculo introducen dos fases: una para la viga aislada y otra para el conjunto completo

Nudos A: 1227 1228 1229 1231 1232 1234 1235 1237 1238

Nudos B: 1826 1827 1823 1824 1820 1821 1815 1816 1817

d) Hipótesis de carga

La carga vertical del puente $N = 3750$ T



$\alpha_1 = 10.88°$

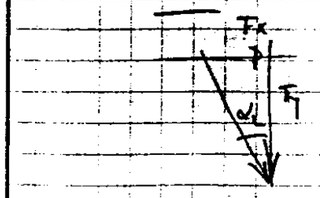
$\alpha_2 = 14.87°$

$V_2 = \frac{N}{\cos \alpha_2} = \frac{3750}{\cos 14.87} = 3880$ T

- Nudos de cable

92, 125, 126, 161, 166, 201, 206, 241, 246, 277, 286, 321, 326, 361, 366
401 406 433 434 461, 462, 489, 490, 517, 518, 545, 546, 573, 574, 601, 602
629 630 657 658 685 686 713 714 741 742 769 770 797 798 825 826
853 854 881 882 909 910 937 965 966 993 994 1021 1022 1049 1050
1077 1078 1105 1106 1133 1134 1162 1189 1190 1217 1218 1246

Nº nudos: 74



$F_y = -\frac{3750}{74} = -50.68$ T

$F_x = \frac{3880}{74} \operatorname{sen} \alpha_2 = \frac{3880}{74} \operatorname{sen} 14.87 = 13.46$ T

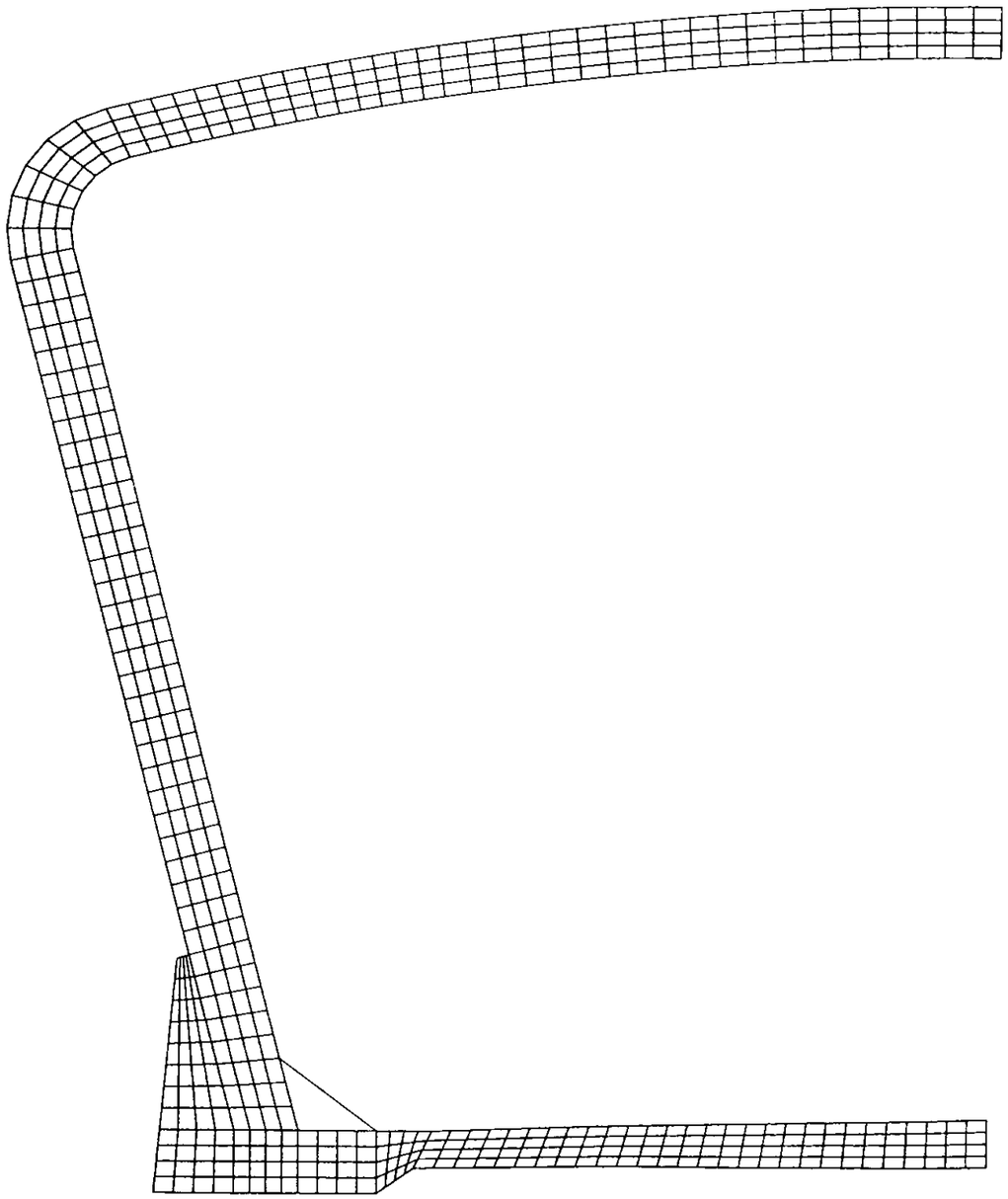
. Nudos de apoyo

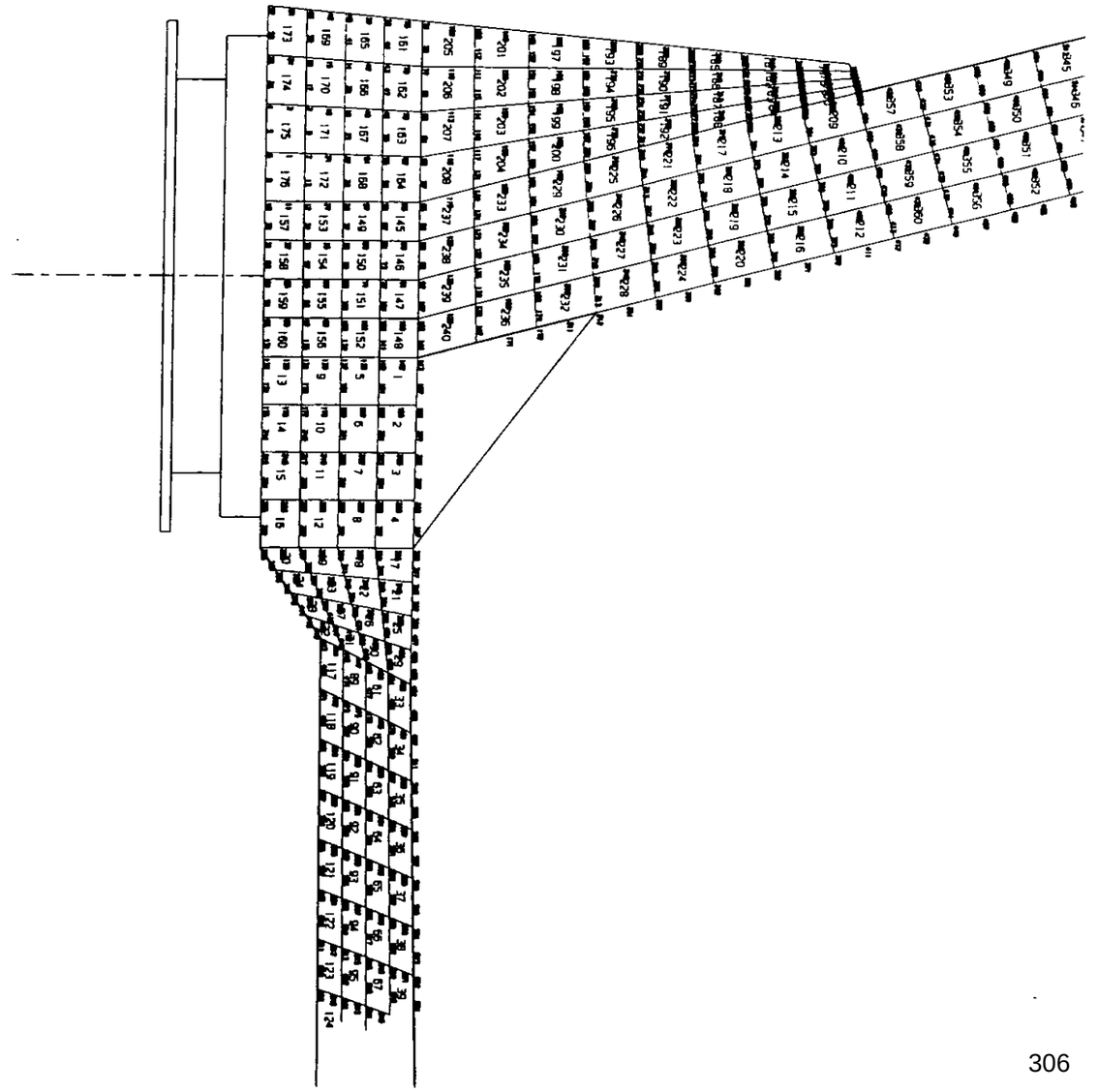
26, 4 5 6 9 10 30 31 63 64 84 91 131 132 134 175 214 215
254

$T_1 = \frac{3750}{19} = 197,38\ T.$

DIMENSIONADO DE LOS APOYOS

APOYOS TIPO PL PU-40m





```
elef
 1828  525    3    2 2     8 1
null
coor
```

1	0.4894	0.0638
2	0.3313	0.1275
3	0.3283	0.0638
4	0.3253	0.0000
5	0.4066	0.0000
6	0.4880	0.0000
7	0.4909	0.1275
8	0.4111	0.1275
9	0.5693	0.0000
10	0.6506	0.0000
11	0.6506	0.0638
12	0.6506	0.1275
13	0.5708	0.1275
14	0.1806	0.2550
15	0.1761	0.1913
16	0.1716	0.1275
17	0.2514	0.1275
18	0.3343	0.1913
19	0.3373	0.2550
20	0.2589	0.2550
21	0.4924	0.1913
22	0.4939	0.2550
23	0.4156	0.2550
24	0.1671	0.0638
25	0.1627	0.0000
26	0.2440	0.0000
27	0.6506	0.1913
28	0.6506	0.2550
29	0.5723	0.2550
30	0.7153	0.0000
31	0.7799	0.0000
32	0.7799	0.0638
33	0.7799	0.1275
34	0.7153	0.1275
35	0.7799	0.1913
36	0.7799	0.2550
37	0.7153	0.2550
38	0.0358	0.3825
39	0.0299	0.3187
40	0.0239	0.2550
41	0.1022	0.2550
42	0.1851	0.3187
43	0.1895	0.3825
44	0.1127	0.3825
45	0.3402	0.3187
46	0.3432	0.3825
47	0.2664	0.3825
48	0.0179	0.1913
49	0.0119	0.1275
50	0.0918	0.1275
1	0.0060	0.0638
52	0.0000	0.0000
53	0.0813	0.0000
54	0.4954	0.3187
55	0.4969	0.3825
56	0.4201	0.3825
57	0.6506	0.3187
58	0.6506	0.3825
59	0.5738	0.3825
60	0.7799	0.3187
61	0.7799	0.3825
62	0.7153	0.3825
63	0.8446	0.0000
64	0.9093	0.0000
65	0.9093	0.0638
66	0.9093	0.1275
67	0.8446	0.1275
68	0.9093	0.1913
69	0.9093	0.2550
70	0.8446	0.2550
71	0.9093	0.3187
72	0.9093	0.3825
73	0.8446	0.3825
74	0.0478	0.5100
75	0.0418	0.4463
76	0.1940	0.4463
77	0.1985	0.5100
78	0.1231	0.5100
79	0.3462	0.4463
80	0.3492	0.5100
81	0.2738	0.5100
82	0.4984	0.4463
83	0.4999	0.5100
84	0.4246	0.5100
85	0.6506	0.4463
86	0.6506	0.5100
87	0.5753	0.5100
88	0.7799	0.4463
89	0.7799	0.5100
90	0.7153	0.5100
91	0.9093	0.4463
92	0.9093	0.5100
93	0.8446	0.5100
94	0.9739	0.0000
95	1.0386	0.0000
96	1.0386	0.0638
97	1.0386	0.1275
98	0.9739	0.1275
99	1.0386	0.1913
100	1.0386	0.2550
101	0.9739	0.2550
102	1.0386	0.3187
103	1.0386	0.3825
104	0.9739	0.3825
105	1.0386	0.4463
106	1.0386	0.5100
107	0.9739	0.5100
108	0.0641	0.6838
109	0.0559	0.5969
110	0.1987	0.5973
111	0.1990	0.6846
112	0.1315	0.6842

113	0.3415	0.5977
114	0.3339	0.6854
115	0.2664	0.6850
116	0.4843	0.5981
117	0.4687	0.6862
118	0.4013	0.6858
119	0.6271	0.5985
120	0.6036	0.6870
121	0.5362	0.6866
122	0.7559	0.6005
123	0.7319	0.6910
124	0.6678	0.6890
125	0.8847	0.6025
126	0.8602	0.6950
127	0.7960	0.6930
128	1.0135	0.6045
129	0.9884	0.6990
130	0.9243	0.6970
131	1.1033	0.0000
132	1.1679	0.0000
133	1.1679	0.0638
134	1.1679	0.1275
135	1.1033	0.1275
136	1.1679	0.1913
137	1.1679	0.2550
138	1.1033	0.2550
139	1.1679	0.3187
140	1.1679	0.3825
141	1.1033	0.3825
142	1.1679	0.4463
143	1.1679	0.5100
144	1.1033	0.5100
145	1.1423	0.6065
146	1.1167	0.7030
147	1.0525	0.7010
148	0.0804	0.8576
149	0.0722	0.7707
150	0.1992	0.7719
151	0.1994	0.8592
152	0.1399	0.8584
153	0.3262	0.7731
154	0.3185	0.8608
155	0.2590	0.8600
156	0.4532	0.7743
157	0.4376	0.8624
158	0.3780	0.8616
159	0.5801	0.7755
160	0.5566	0.8640
161	0.4971	0.8632
162	0.7079	0.7815
163	0.6838	0.8720
164	0.6202	0.8680
165	0.8356	0.7875
166	0.8110	0.8800
167	0.7474	0.8760
168	0.9633	0.7935
169	0.9382	0.8881
170	0.8746	0.8841
171	1.0911	0.7996
172	1.0654	0.8961
173	1.0018	0.8921
174	1.2469	0.0000
175	1.3259	0.0000
176	1.3259	0.0636
177	1.3259	0.1271
178	1.2469	0.1273
179	1.3259	0.1907
180	1.3259	0.2543
181	1.2469	0.2546
182	1.3259	0.3178
183	1.3259	0.3814
184	1.2469	0.3820
185	1.3259	0.4450
186	1.3259	0.5085
187	1.2469	0.5093
188	0.0967	1.0314
189	0.0885	0.9445
190	0.1997	0.9465
191	0.1999	1.0338
192	0.1483	1.0326
193	0.3108	0.9485
194	0.3032	1.0362
195	0.2515	1.0350
196	0.4220	0.9505
197	0.4064	1.0386
198	0.3548	1.0374
199	0.5331	0.9525
200	0.5097	1.0410
201	0.4580	1.0398
202	0.6598	0.9625
203	0.6358	1.0530
204	0.5727	1.0470
205	0.7865	0.9726
206	0.7619	1.0651
207	0.6989	1.0591
208	0.9132	0.9826
209	0.8881	1.0771
210	0.8250	1.0711
211	1.0398	0.9926
212	1.0142	1.0891
213	0.9511	1.0831
214	1.4049	0.0000
215	1.4840	0.0000
216	1.4840	0.0634
217	1.4840	0.1268
218	1.4049	0.1270
219	1.4840	0.1902
220	1.4840	0.2535
221	1.4049	0.2539
222	1.4840	0.3169
223	1.4840	0.3803
224	1.4049	0.3809
225	1.4840	0.4437
226	1.4840	0.5071
227	1.4049	0.5078
228	0.1129	1.2052

229	0.1048	1.1183
230	0.2001	1.1211
231	0.2004	1.2084
232	0.1567	1.2068
233	0.2955	1.1239
234	0.2878	1.2116
235	0.2441	1.2100
236	0.3908	1.1267
237	0.3752	1.2148
238	0.3315	1.2132
239	0.4862	1.1295
240	0.4627	1.2180
241	0.4190	1.2164
242	0.6118	1.1436
243	0.5877	1.2341
244	0.5252	1.2260
245	0.7374	1.1576
246	0.7128	1.2501
247	0.6503	1.2421
248	0.8630	1.1716
249	0.8379	1.2661
250	0.7754	1.2581
251	0.9886	1.1856
252	0.9630	1.2822
253	0.9004	1.2741
254	1.5630	0.0000
255	1.6420	0.0000
256	1.6420	0.0632
257	1.6420	0.1264
258	1.5630	0.1266
259	1.6420	0.1896
260	1.6420	0.2528
261	1.5630	0.2532
262	1.6420	0.3160
263	1.6420	0.3792
264	1.5630	0.3798
265	1.6420	0.4424
266	1.6420	0.5056
267	1.5630	0.5063
268	0.1292	1.3790
269	0.1211	1.2921
270	0.2006	1.2957
271	0.2008	1.3830
272	0.1650	1.3810
273	0.2801	1.2993
274	0.2725	1.3870
275	0.2366	1.3850
276	0.3597	1.3029
277	0.3441	1.3910
278	0.3083	1.3890
279	0.4392	1.3065
280	0.4157	1.3950
281	0.3799	1.3930
282	0.5637	1.3246
283	0.5397	1.4151
284	0.4777	1.4051
285	0.6883	1.3426
286	0.6637	1.4351
287	0.6017	1.4251
288	0.8128	1.3606
289	0.7877	1.4552
290	0.7257	1.4451
291	0.9373	1.3787
292	0.9117	1.4752
293	0.8497	1.4652
294	1.7210	0.0000
295	1.8000	0.0000
296	1.8000	0.0630
297	1.8000	0.1260
298	1.7210	0.1262
299	1.8000	0.1891
300	1.8000	0.2521
301	1.7210	0.2524
302	1.8000	0.3151
303	1.8000	0.3781
304	1.7210	0.3787
305	1.8000	0.4411
306	1.8000	0.5042
307	1.7210	0.5049
308	0.1455	1.3528
309	0.1374	1.4659
310	0.2011	1.4703
311	0.2013	1.5576
312	0.1734	1.5552
313	0.2648	1.4747
314	0.2571	1.5624
315	0.2292	1.5600
316	0.3285	1.4791
317	0.3129	1.5672
318	0.2850	1.5648
319	0.3922	1.4835
320	0.3687	1.5720
321	0.3408	1.5696
322	0.5157	1.5056
323	0.4917	1.5961
324	0.4302	1.5841
325	0.6392	1.5276
326	0.6146	1.6201
327	0.5531	1.6081
328	0.7626	1.5497
329	0.7375	1.6442
330	0.6761	1.6322
331	0.8861	1.5717
332	0.8605	1.6682
333	0.7990	1.6562
334	1.8375	0.0250
335	1.8750	0.0500
336	1.8797	0.1066
337	1.8844	0.1633
338	1.8422	0.1447
339	1.8891	0.2199
340	1.8937	0.2766
341	1.8469	0.2643
342	1.8984	0.3332
343	1.9031	0.3898
344	1.8516	0.3840

345	1.9078	0.4465
346	1.9125	0.5031
347	1.8562	0.5036
348	0.1618	1.7266
349	0.1537	1.6397
350	0.2015	1.6449
351	0.2018	1.7322
352	0.1818	1.7294
353	0.2494	1.6501
354	0.2418	1.7378
355	0.2218	1.7350
356	0.2973	1.6553
357	0.2817	1.7434
358	0.2618	1.7406
359	0.3452	1.6605
360	0.3217	1.7490
361	0.3017	1.7462
362	0.4676	1.6866
363	0.4436	1.7771
364	0.3827	1.7631
365	0.5900	1.7127
366	0.5655	1.8052
367	0.5045	1.7911
368	0.7125	1.7387
369	0.6874	1.8332
370	0.6264	1.8192
371	0.8349	1.7648
372	0.8092	1.8613
373	0.7483	1.8473
374	1.9125	0.0750
375	1.9500	0.1000
376	1.9594	0.1503
377	1.9687	0.2005
378	1.9266	0.1819
379	1.9781	0.2508
380	1.9875	0.3010
381	1.9406	0.2888
382	1.9969	0.3513
383	2.0062	0.4016
384	1.9547	0.3957
385	2.0156	0.4518
386	2.0250	0.5021
387	1.9687	0.5026
388	0.1781	1.9004
389	0.1699	1.8135
390	0.2020	1.8195
391	0.2022	1.9068
392	0.1902	1.9036
393	0.2341	1.8255
394	0.2264	1.9132
395	0.2143	1.9100
396	0.2662	1.8315
397	0.2506	1.9196
398	0.2385	1.9164
399	0.2982	1.8376
400	0.2747	1.9261
401	0.2627	1.9228
402	0.4196	1.8676
403	0.3956	1.9581
404	0.3351	1.9421
405	0.5409	1.8977
406	0.5164	1.9902
407	0.4560	1.9742
408	0.6623	1.9277
409	0.6372	2.0223
410	0.5768	2.0062
411	0.7836	1.9578
412	0.7580	2.0543
413	0.6976	2.0383
414	1.9875	0.1250
415	2.0250	0.1500
416	2.0391	0.1939
417	2.0531	0.2378
418	2.0109	0.2191
419	2.0672	0.2816
420	2.0812	0.3255
421	2.0344	0.3133
422	2.0953	0.3694
423	2.1094	0.4133
424	2.0578	0.4074
425	2.1234	0.4572
426	2.1375	0.5010
427	2.0812	0.5016
428	0.2249	2.1140
429	0.2498	2.0200
430	0.3706	2.0520
431	0.3457	2.1458
432	0.2853	2.1299
433	0.4915	2.0839
434	0.4666	2.1777
435	0.4062	2.1618
436	0.6123	2.1159
437	0.5875	2.2096
438	0.5270	2.1936
439	0.7332	2.1479
440	0.7083	2.2414
441	0.6479	2.2255
442	2.0625	0.1750
443	2.1000	0.2000
444	2.1187	0.2375
445	2.1375	0.2750
446	2.0953	0.2564
447	2.1562	0.3125
448	2.1750	0.3500
449	2.1281	0.3378
450	2.1937	0.3875
451	2.2125	0.4250
452	2.1609	0.4191
453	2.2312	0.4625
454	2.2500	0.5000
455	2.1937	0.5005
456	0.1750	2.3019
457	0.1999	2.2080
458	0.3208	2.2397
459	0.2959	2.3336
460	0.2354	2.3177

461	0.4417	2.2715
462	0.4168	2.3652
463	0.3564	2.3494
464	0.5626	2.3032
465	0.5378	2.3968
466	0.4773	2.3810
467	0.6835	2.3349
468	0.6587	2.4285
469	0.5982	2.4127
470	2.1830	0.2000
471	2.2661	0.2000
472	2.2842	0.2379
473	2.3022	0.2758
474	2.2199	0.2754
475	2.3203	0.3137
476	2.3384	0.3516
477	2.2567	0.3508
478	2.3565	0.3895
479	2.3746	0.4274
480	2.2935	0.4262
481	2.3926	0.4653
482	2.4107	0.5032
483	2.3304	0.5016
484	0.1251	2.4899
485	0.1500	2.3959
486	0.2710	2.4274
487	0.2461	2.5213
488	0.1856	2.5056
489	0.3919	2.4590
490	0.3671	2.5527
491	0.3066	2.5370
492	0.5129	2.4905
493	0.4880	2.5841
494	0.4276	2.5684
495	0.6339	2.5220
496	0.6090	2.6156
497	0.5485	2.5999
498	2.3491	0.2000
499	2.4321	0.2000
500	2.4496	0.2383
501	2.4670	0.2766
502	2.3846	0.2762
503	2.4844	0.3149
504	2.5018	0.3532
505	2.4201	0.3524
506	2.5192	0.3915
507	2.5366	0.4298
508	2.4556	0.4286
509	2.5540	0.4681
510	2.5714	0.5064
511	2.4911	0.5048
512	0.0752	2.6778
513	0.1001	2.5838
514	0.2212	2.6151
515	0.1962	2.7090
516	0.1357	2.6934
517	0.3422	2.6465
518	0.3173	2.7402
519	0.2568	2.7246
520	0.4632	2.6778
521	0.4383	2.7714
522	0.3778	2.7558
523	0.5842	2.7091
524	0.5594	2.8026
525	0.4989	2.7870
526	2.5152	0.2000
527	2.5982	0.2000
528	2.6150	0.2387
529	2.6317	0.2774
530	2.5493	0.2770
531	2.6484	0.3161
532	2.6652	0.3548
533	2.5835	0.3540
534	2.6819	0.3935
535	2.6987	0.4322
536	2.6176	0.4310
537	2.7154	0.4709
538	2.7321	0.5096
539	2.6518	0.5080
540	0.0253	2.8657
541	0.0503	2.7718
542	0.1713	2.8029
543	0.1464	2.8967
544	0.0859	2.8812
545	0.2924	2.8340
546	0.2675	2.9277
547	0.2070	2.9122
548	0.4135	2.8651
549	0.3886	2.9587
550	0.3281	2.9432
551	0.5345	2.8962
552	0.5097	2.9897
553	0.4492	2.9742
554	2.6812	0.2000
555	2.7643	0.2000
556	2.7804	0.2391
557	2.7964	0.2782
558	2.7141	0.2778
559	2.8125	0.3173
560	2.8286	0.3564
561	2.7469	0.3556
562	2.8446	0.3955
563	2.8607	0.4346
564	2.7797	0.4334
565	2.8768	0.4737
566	2.8929	0.5129
567	2.8125	0.5112
568	-0.0246	3.0537
569	0.0004	2.9597
570	0.1215	2.9906
571	0.0966	3.0844
572	0.0360	3.0691
573	0.2426	3.0215
574	0.2177	3.1152
575	0.1572	3.0998
576	0.3638	3.0524

577	0.3389	3.1460
578	0.2783	3.1306
579	0.4849	3.0833
580	0.4601	3.1768
581	0.3995	3.1614
582	2.8473	0.2000
583	2.9304	0.2000
584	2.9458	0.2395
585	2.9612	0.2790
586	2.8788	0.2786
587	2.9766	0.3185
588	2.9920	0.3580
589	2.9103	0.3572
590	3.0074	0.3975
591	3.0228	0.4371
592	2.9417	0.4358
593	3.0382	0.4766
594	3.0536	0.5161
595	2.9732	0.5145
596	-0.0744	3.2416
597	-0.0495	3.1476
598	0.0717	3.1783
599	0.0468	3.2722
600	-0.0138	3.2569
601	0.1929	3.2090
602	0.1680	3.3027
603	0.1074	3.2875
604	0.3140	3.2397
605	0.2892	3.3333
606	0.2286	3.3180
607	0.4352	3.2703
608	0.4104	3.3639
609	0.3498	3.3486
610	3.0134	0.2000
611	3.0964	0.2000
612	3.1112	0.2399
613	3.1259	0.2798
614	3.0435	0.2794
615	3.1406	0.3197
616	3.1554	0.3596
617	3.0737	0.3588
618	3.1701	0.3996
619	3.1848	0.4395
620	3.1038	0.4383
621	3.1996	0.4794
622	3.2143	0.5193
623	3.1339	0.5177
624	-0.1243	3.4295
625	-0.0994	3.3356
626	0.0219	3.3660
627	-0.0031	3.4599
628	-0.0637	3.4447
629	0.1431	3.3965
630	0.1182	3.4902
631	0.0576	3.4751
632	0.2643	3.4270
633	0.2395	3.5206
634	0.1788	3.5054

635	0.3856	3.4574
636	0.3607	3.5510
637	0.3001	3.5358
638	3.1795	0.2000
639	3.2625	0.2000
640	3.2766	0.2403
641	3.2906	0.2806
642	3.2083	0.2802
643	3.3047	0.3209
644	3.3187	0.3612
645	3.2371	0.3604
646	3.3328	0.4016
647	3.3469	0.4419
648	3.2658	0.4407
649	3.3609	0.4822
650	3.3750	0.5225
651	3.2946	0.5209
652	-0.1742	3.6175
653	-0.1493	3.5235
654	-0.0280	3.5538
655	-0.0529	3.6476
656	-0.1136	3.6325
657	0.0933	3.5840
658	0.0684	3.6778
659	0.0078	3.6627
660	0.2146	3.6143
661	0.1898	3.7079
662	0.1291	3.6928
663	0.3359	3.6445
664	0.3111	3.7380
665	0.2504	3.7230
666	3.3455	0.2000
667	3.4286	0.2000
668	3.4420	0.2407
669	3.4554	0.2814
670	3.3730	0.2810
671	3.4687	0.3221
672	3.4821	0.3629
673	3.4004	0.3621
674	3.4955	0.4036
675	3.5089	0.4443
676	3.4279	0.4431
677	3.5223	0.4850
678	3.5357	0.5257
679	3.4554	0.5241
680	-0.2241	3.8054
681	-0.1992	3.7114
682	-0.0778	3.7415
683	-0.1027	3.8353
684	-0.1634	3.8204
685	0.0436	3.7715
686	0.0187	3.8653
687	-0.0420	3.8503
688	0.1649	3.8015
689	0.1401	3.8952
690	0.0794	3.8802
691	0.2863	3.8316
692	0.2614	3.9251

693	0.2007	3.9102
694	3.5116	0.2000
695	3.5946	0.2000
696	3.6074	0.2411
697	3.6201	0.2822
698	3.5377	0.2818
699	3.6328	0.3233
700	3.6455	0.3645
701	3.5638	0.3637
702	3.6583	0.4056
703	3.6710	0.4467
704	3.5900	0.4455
705	3.6837	0.4878
706	3.6964	0.5289
707	3.6161	0.5273
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709	-0.2490	3.8994
10	-0.1276	3.9292
711	-0.1525	4.0231
712	-0.2133	4.0082
713	-0.0062	3.9590
714	-0.0311	4.0528
715	-0.0918	4.0379
716	0.1152	3.9888
717	0.0903	4.0825
718	0.0296	4.0676
9	0.2366	4.0187
20	0.2118	4.1122
721	0.1511	4.0973
722	3.6777	0.2000
723	3.7607	0.2000
724	3.7728	0.2415
725	3.7848	0.2830
726	3.7025	0.2826
727	3.7969	0.3246
728	3.8089	0.3661
29	3.7272	0.3653
730	3.8210	0.4076
731	3.8330	0.4491
732	3.7520	0.4479
733	3.8451	0.4906
734	3.8571	0.5321
735	3.7768	0.5305
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737	-0.2989	4.0873
738	-0.1775	4.1169
739	-0.2024	4.2108
740	-0.2631	4.1960
741	-0.0560	4.1465
742	-0.0809	4.2403
743	-0.1416	4.2255
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745	0.0406	4.2698
746	-0.0201	4.2550
747	0.1870	4.2057
8	0.1621	4.2993
749	0.1014	4.2845
750	3.8437	0.2000
751	3.9268	0.2000
752	3.9382	0.2419
753	3.9496	0.2838
754	3.8672	0.2834
755	3.9609	0.3258
756	3.9723	0.3677
757	3.8906	0.3669
758	3.9837	0.4096
759	3.9951	0.4515
760	3.9141	0.4503
761	4.0065	0.4934
762	4.0179	0.5354
763	3.9375	0.5337
764	-0.3738	4.3692
765	-0.3488	4.2752
766	-0.2273	4.3046
767	-0.2522	4.3985
768	-0.3130	4.3839
769	-0.1058	4.3340
770	-0.1306	4.4278
771	-0.1914	4.4131
772	0.0158	4.3634
773	-0.0091	4.4571
774	-0.0699	4.4424
775	0.1373	4.3928
776	0.1125	4.4864
777	0.0517	4.4717
778	4.0098	0.2000
779	4.0929	0.2000
780	4.1036	0.2423
781	4.1143	0.2846
782	4.0319	0.2842
783	4.1250	0.3270
784	4.1357	0.3693
785	4.0540	0.3685
786	4.1464	0.4116
787	4.1571	0.4539
788	4.0761	0.4527
789	4.1679	0.4962
790	4.1786	0.5386
791	4.0982	0.5370
792	-0.4236	4.3571
793	-0.3987	4.4632
794	-0.2771	4.4924
795	-0.3020	4.5862
796	-0.3628	4.5717
797	-0.1555	4.5215
798	-0.1804	4.6153
799	-0.2412	4.6008
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801	-0.0588	4.6444
802	-0.1196	4.6298
803	0.0876	4.5799
804	0.0628	4.6734
805	0.0020	4.6589
806	4.1759	0.2000
807	4.2589	0.2000
808	4.2698	0.2427

809	4.2790	0.2854
810	4.1967	0.2850
811	4.2891	0.3282
812	4.2991	0.3709
813	4.2174	0.3701
814	4.3092	0.4136
815	4.3192	0.4563
816	4.2382	0.4551
817	4.3292	0.4991
818	4.3393	0.5418
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826	-0.2302	4.8028
827	-0.2910	4.7884
828	-0.0837	4.7380
829	-0.1085	4.8317
830	-0.1694	4.8172
831	0.0380	4.7670
832	0.0132	4.8605
833	-0.0477	4.8461
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836	4.4344	0.2431
837	4.4437	0.2863
838	4.3614	0.2858
839	4.4531	0.3294
840	4.4625	0.3725
841	4.3808	0.3717
842	4.4719	0.4156
843	4.4812	0.4588
844	4.4002	0.4575
845	4.4906	0.5019
846	4.5000	0.5450
847	4.4196	0.5434
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850	-0.3768	4.8678
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852	-0.4625	4.9473
853	-0.2551	4.8966
854	-0.2800	4.9903
855	-0.3408	4.9760
856	-0.1334	4.9253
857	-0.1582	5.0190
858	-0.2191	5.0046
859	-0.0117	4.9541
860	-0.0365	5.0476
861	-0.0974	5.0333
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863	4.5911	0.2000
864	4.5998	0.2435
865	4.6085	0.2871
866	4.5261	0.2867
867	4.6172	0.3306
868	4.6259	0.3741
869	4.5442	0.3733
870	4.6346	0.4176
871	4.6433	0.4612
872	4.5623	0.4600
873	4.6520	0.5047
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877	-0.5483	5.0270
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879	-0.4515	5.1494
880	-0.5124	5.1352
881	-0.3048	5.0841
882	-0.3297	5.1778
883	-0.3906	5.1636
884	-0.1831	5.1126
885	-0.2079	5.2062
886	-0.2688	5.1920
887	-0.0613	5.1411
888	-0.0862	5.2347
889	-0.1471	5.2205
890	4.6741	0.2000
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892	4.7652	0.2439
893	4.7732	0.2879
894	4.6908	0.2875
895	4.7812	0.3318
896	4.7893	0.3757
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899	4.8054	0.4636
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913	-0.2577	5.3935
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916	-0.1358	5.4218
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921	4.9379	0.2887
922	4.8556	0.2883
923	4.9453	0.3330
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925	4.8710	0.3765
926	4.9600	0.4217
927	4.9674	0.4660
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946	5.0062	0.2000
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948	5.0960	0.2447
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967	-0.5400	5.7264
968	-0.3322	5.6745
969	-0.3571	5.7681
970	-0.4181	5.7542
971	-0.2103	5.7024
972	-0.2351	5.7959
973	-0.2961	5.7820
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976	5.2614	0.2451
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982	5.2855	0.4257
983	5.2915	0.4708
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985	5.2975	0.5159
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1004	5.4268	0.2455
1005	5.4321	0.2911
1006	5.3498	0.2907
1007	5.4375	0.3366
1008	5.4429	0.3821
1009	5.3612	0.3813
1010	5.4482	0.4277
1011	5.4536	0.4732
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1376	0.1492	8.6689
1377	0.1287	8.5018
1378	0.2138	8.5208
1379	0.1917	8.5702
1380	0.1732	8.8362
1381	0.2609	8.8554
1382	0.2406	8.9050
1383	0.2207	8.9246
1384	0.1318	8.9352
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1386	0.3012	8.7562
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1394	0.3487	8.8741
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763	5.7271	9.4251
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773	6.0657	9.5386
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1781	6.0703	9.3309
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1825	6.6371	9.2342
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  2 4
3677000. 0.20 0.8 4
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apoy
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hipo 1 carga maxima en apoyo
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fin
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CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

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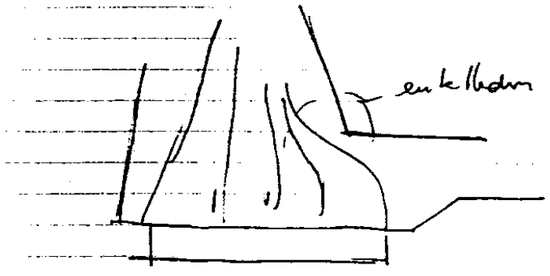
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ANALISIS DE LOS RESULTADOS

. Se han introducido 2 modelos con ligeras variaciones a la geometría

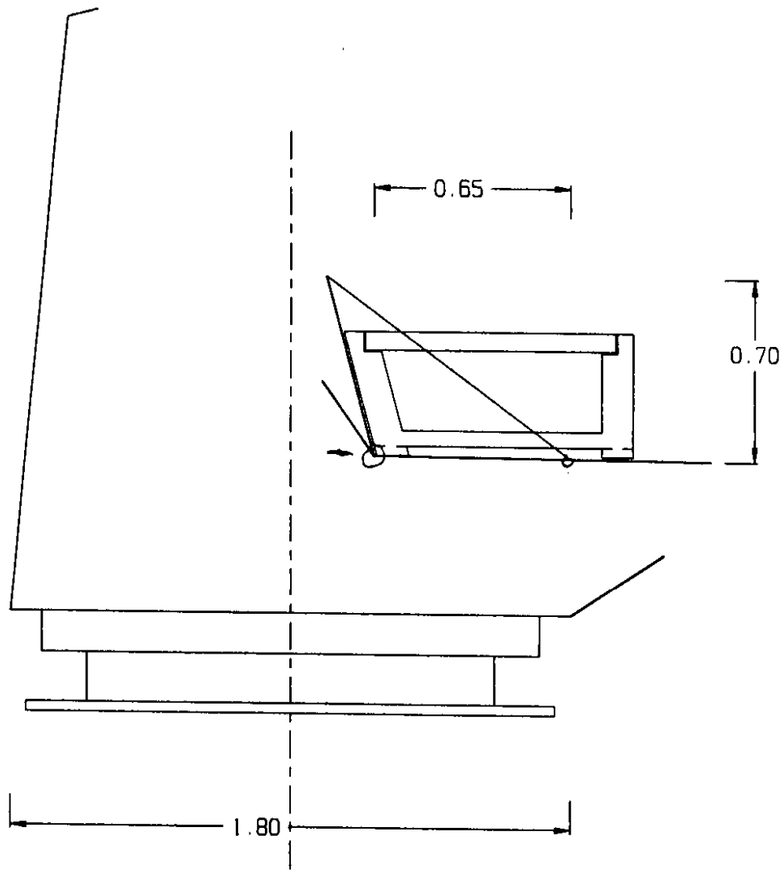
a) Modelo-1 : Se ha realizado la geometría del ajuste estudiado en la fase anterior

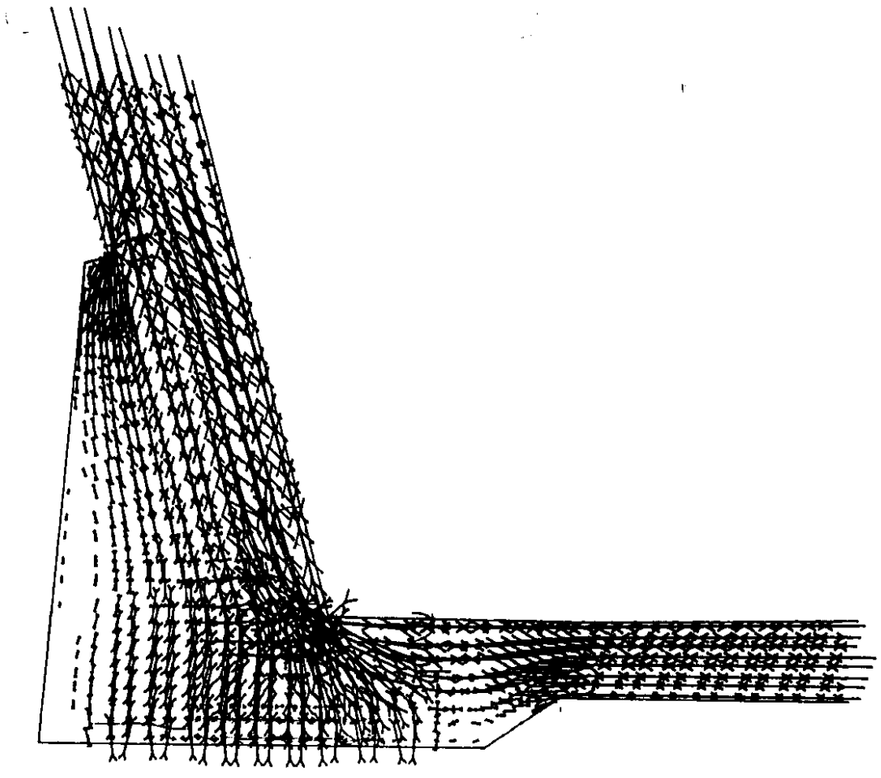
En los resultados obtenidos se observa una importante concentración de tensiones provocada por la entalladura y el estrangulamiento



b) Modelo 2 se ha reforzado el encuentro derecha y la base inferior mediante un acartelamiento especial

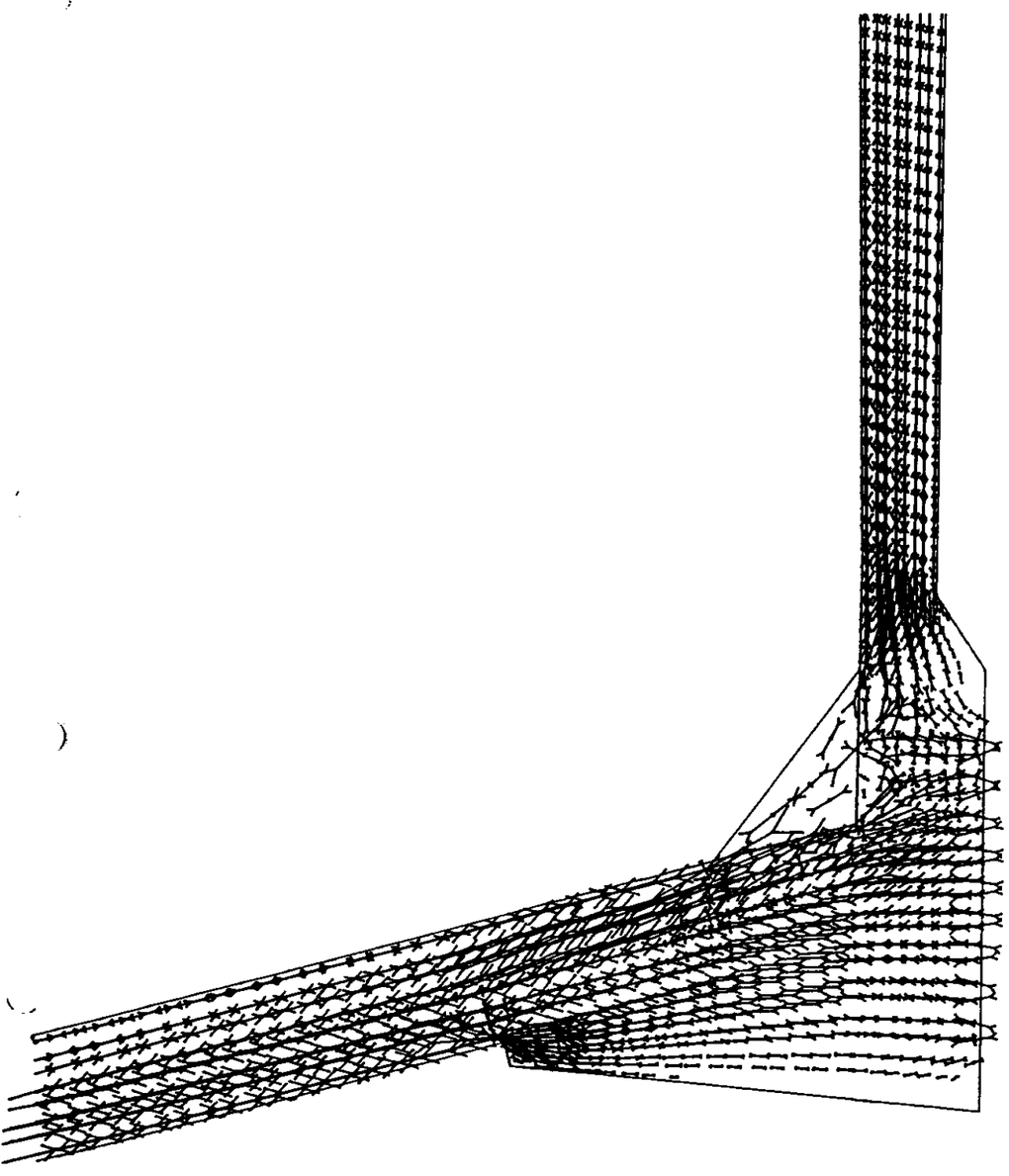
La concentración de tensiones de compresión sobre dicha base y cerca se observa en los distintos modelos de ajustes.





DISTRIBUCION DE TENSIONES

⟷ 200 kg/cm²

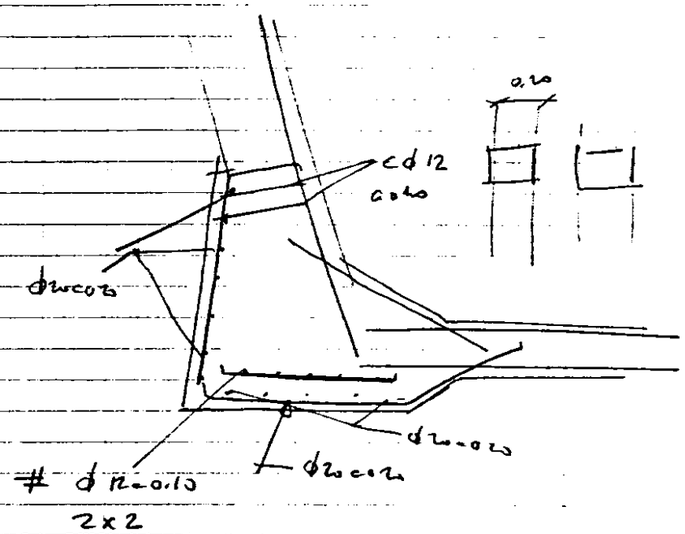


CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

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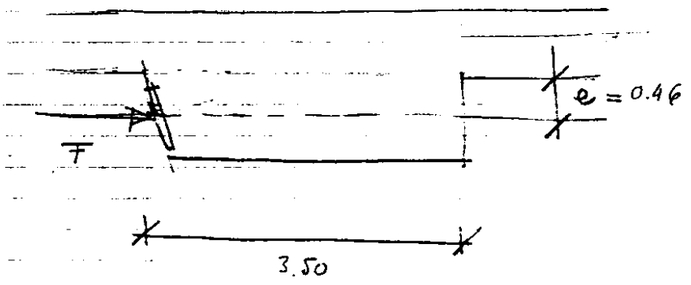
PROYECTO _____ FECHA _____

Disposición en la armadura local



REFUERZO DE CAJETINES

DIMENSIONAMIENTO DE LOS CAJETINES DE ANCLAJE



F = 486 T (24 ϕ 0.6")
b = 1.75 m.

1.- Dimensionamiento del refuerzo debido al pretensado longitudinal

a) Armadura de flexión

$M_d = F_d \cdot e = 1.5 \cdot 486 \cdot 0.46 = 335$ m.T

$\mu = \frac{335}{3.50^2 \cdot 1.75 \cdot \frac{500}{1.5}} = 0.0050$ $\quad \omega = 1 - \sqrt{1-2\mu} = 0.005 < 0.04$

$U_1 = 0.04 \cdot 3.50 \cdot 1.75 \cdot \frac{500}{1.5} = 793.3$ T → $A_s = 180 cm^2 \Rightarrow 38 \phi 25$ (como mínimo)

b) Armadura de cortante

$A_{sv} = \frac{V_d}{f_{sd} \cdot \cot g \theta} = \frac{486 \cdot 1.5}{4.2 \quad 1.4} = 124 cm^2$ →

$\cot g \theta = 1.4$ (barras poco inclinadas)

$\frac{2}{3} A_{sv} = 83 cm^2$ $\quad 28 \phi 20$

Armadura principal

$A_s = \frac{2}{3} A_{sv} = 83 cm^2 \Rightarrow$ 28 ϕ 20 → 5 capas 3c ϕ 20

3 capas 10 ϕ 20

Armadura secundaria

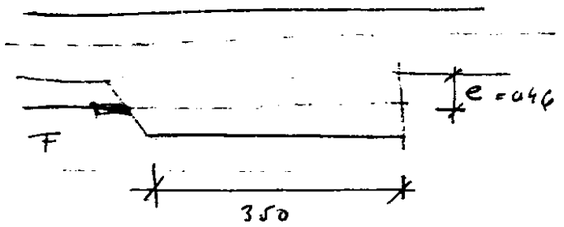
$A_{sc} = \frac{1}{3} A_{sv} = \frac{1}{3} 124 = 41,33 cm^2$

distribuida en $\frac{2}{3} d = \frac{2}{3} 340 = 2,27$ m

$a_s = \frac{41.33}{2.27} = 18,21 cm^2/m$

c ϕ 16 c/20

DIMENSIONAMIENTO DE LOS CORTINAS DE ANCLAJE SUPERIOR



b = 1.75

ϕ 0.6"

Vd	F
31	628
37	750

a) Armadura de flexión

$M_d = F_d \cdot e$ | $F = 628$ $\quad M_d = 1.50 \cdot 628 \cdot 0.46 = 433.32$ m.T

$F = 750$ $\quad M_d = 1.50 \cdot 750 \cdot 0.46 = 518$ m.T

$$\mu_1 = \frac{433.32}{3.50^2 \cdot 1.75 \cdot \frac{60}{1.5}} = 0.0054$$

$$A_{s1} = 0.0054 \cdot 3.50 \cdot 1.75 \cdot \frac{60}{1.5} \cdot \frac{1}{4.2} = 30.60 \text{ cm}^2.$$

$$\mu_2 = \frac{518}{3.50^2 \cdot 1.75 \cdot \frac{60}{1.5}} = 0.0064$$

b) Armadura de cálculo

$$A_{sv} = \frac{V_d}{f_{yd} \cot\theta} \qquad \cot\theta = 1.40 \text{ (Cercha real)}$$

$V_{d1} = 628 \cdot 1.5 = 942$ T $\Rightarrow$ $A_{sv} = \frac{942}{4.2 \cdot 1.40} = 160.20 \text{ cm}^2$

$V_{d2} = 750 \cdot 1.5 = 1125$ T $\quad A_{sv} = \frac{1125}{4.2 \cdot 1.40} = 191.32 \text{ cm}^2$

Armadura principal

$$A_s = \frac{2}{3} A_{sv}$$

$A_{s1} = \frac{2}{3} 160.20 = 106.80 \text{ cm}^2 \Rightarrow$ 14 ϕ 20 + 14 ϕ 25

$A_{s2} = \frac{2}{3} 191.32 = 127.55 \text{ cm}^2 \Rightarrow$ 14 ϕ 25 + 14 ϕ 25

Armadura secundaria

$$A_{se} = \frac{1}{3} A_{sv}$$

$A_{se1} = \frac{1}{3} 160.20 = 53.50 \text{ cm}^2$ $\quad a_s = \frac{5340}{2.27} = 23.52 \text{ cm}^2/\text{m}.$

$A_{se2} = \frac{1}{3} 191.32 = 63.77 \text{ cm}^2$ $\quad a_s = \frac{6377}{2.27} = 28.09 \text{ cm}^2/\text{m}.$

con dos ϕ 16 a c/m.

4.3.3.3 Estudio de la flexión transversal

4.3.3.3 ESTUDIO DE LA FLEXIÓN TRANSVERSAL

ÍNDICE

MODELO DE SEMI-PÓRTICO ESPACIAL
- ESQUEMA DEL MODELO
- CARACTERÍSTICAS DE BARRAS
- ÁNGULO BETA EN BARRAS
- VALORES DE LAS ACCIONES
- LISTADO DE DATOS
- LISTADO DE RESULTADOS
- LEYES GRÁFICAS
- RESUMEN DE ESFUERZOS

CÁLCULO DE LA CONSTANTE DE MUELLE PARA ESTUDIO DE SECCIONES TRANSVERSALES SIN COSTILLAS
- ESQUEMA DEL MODELO
- LISTADO DE DATOS
- LISTADO DE RESULTADOS

MODELO DE BARRAS PLANO
- MÓDULO INTERMEDIO ENTRE ALIGERAMIENTOS
- ESQUEMA DEL MÓDELO
- CARACTERÍTICAS DE BARRAS
- VALORES DE LAS ACCIONES
- CÁLCULO DEL COEFICIENTE DE IMPACTO
- CÁLCULO DE LOS MODOS DE VIBRACIÓN EN LA SECCIÓN TRANSVERSAL

AJUSTES DEL TREN A DE CARGAS

COMPARACIÓN DE RESULTADOS DEL MODELO ESPACIAL Y EL TRANSVERSAL
- LISTADO DE DATOS

ESTUDIO SIN PRETENSADO DE ALMAS
- COMBINACIÓN DE HIPÓTESIS
- LEYES DE ESFUERZO
- ESTUDIO DE LAS COSTILLAS INFERIORES
  - Puente principal
  - Cálculo de tensiones (sin pretensado de almas)
  - Vanos de acceso
  - Cálculo de armadura (sin pretensado de almas)
- ESTUDIO DE LAS ALMAS
  - Cálculo de armadura (sin pret. de almas)
  - Estudio de las hipótesis de carga antimétrica

ESTUDIO CON PRETENSADO DE ALMAS
- LEYES DE ESFUERZO
- COMBINACIÓN DE HIPÓTESIS
- ESTUDIO DE LAS COSTILLAS INFERIORES
  - Cálculo de tensiones (con pret. de almas)
  - Cálculo de armadura (con pret. de almas)
- ESTUDIO DE LAS ALMAS
  - Cálculo de tensiones (con pret. de almas)
  - Cálculo de armadura (con pret. de almas)

FLEXIÓN LONGITUDINAL DE LA LOSA INFERIOR
- CÁLCULO DE ESFUERZOS SEGÚN EL MODELO ESPACIAL
  - Puente principal
  - Vanos de acceso
- CÁLCULO DE LA ARMADURA

DESCARRILAMIENTOS FERROVIARIOS

MODELO DE CÁLCULO

CÁLCULO DE TENSIONES

CÁLCULO DE ARMADURA

MÓDULO INTERMEDIO (BAJO ALIGERAMIENTOS)

ESQUEMA DEL MODELO

CARACTERÍSTICAS DE BARRAS

VALORES DE LAS ACCIONES

MÓDULO EXTREMO

ESQUEMA DEL MODELO

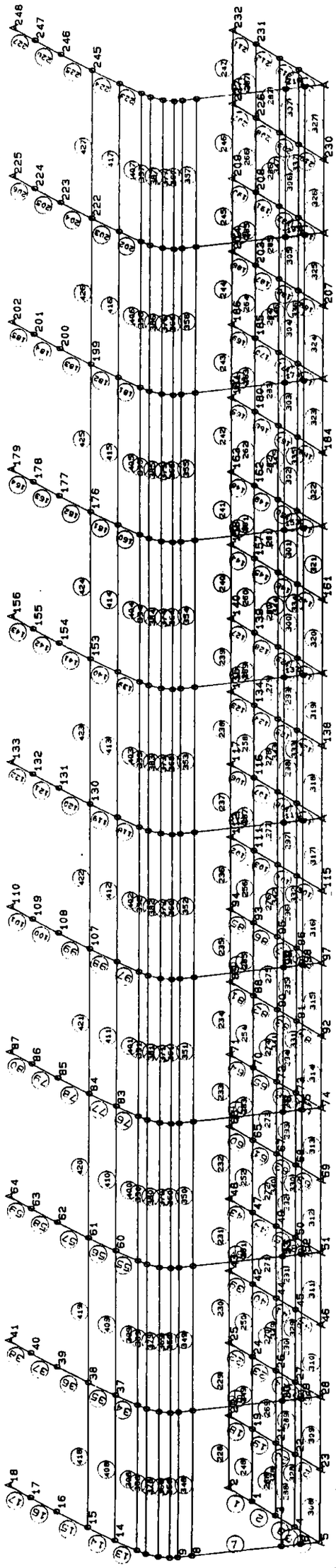
CARACTERÍSTICAS DE BARRAS

VALORES DE LAS ACCIONES

MODELO DE SEMI-PORTICO ESPACIAL

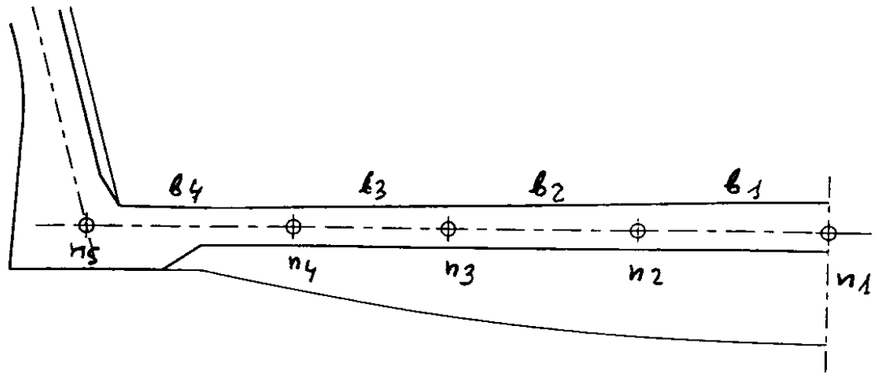
Esquema del modelo

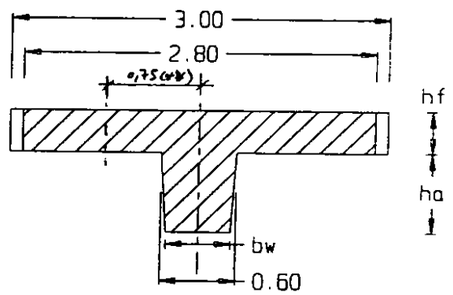
estr Modelo espacial (calculo de la secc. transversal)



Caracteristicas de barras

CUADRO DE VALORES DE LAS SECC. TRANSV.



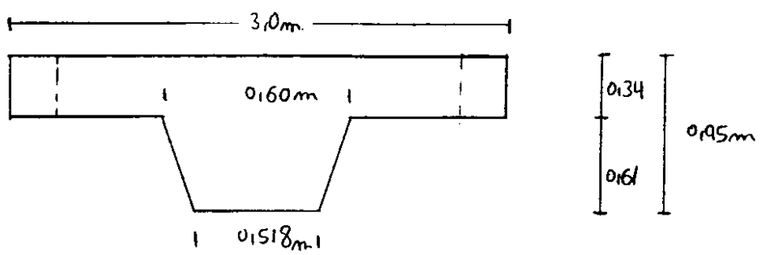


	Secc.	bw	hf	ha	
CENTROS DE BARRAS	b_1	0,5016	0,3772	0,7376	
	b_2	0,5150	0,3472	0,6375	
	b_3	0,5389	0,3198	0,4580	
	b_4	0,5733	0,3006	0,2000	
NUDOS	n_1	0,5000	0,3922	0,7500	
	n_2	0,5066	0,3632	0,7003	
	n_3	0,5268	0,3321	0,5491	
	n_4	0,5534	0,3075	0,3495	
	n_5	2,8000	0,5070	——	(*)

(*) Secc. rectangular

BARRAS TRANSVERSALES INFERIORES

CALCULO DEL ANCHO EFICAZ "be"



$\ell = 9{,}50$, $b = 3{,}00$, $h_f = 0{,}34$, $b_w = 0{,}56$, $h = 0{,}95$

Segun la tabla de la Norma AEH-91.

$\frac{2\ell}{b-b_w} = \frac{2 \times 9{,}50}{3 - 0{,}56} = 7{,}79 \simeq 8{,}00$

$\frac{h_f}{h} = \frac{0{,}34}{0{,}495} = 0{,}36 \simeq 0{,}30$

$\frac{\ell}{b_w} = \frac{9{,}50}{0{,}56} = 16{,}96 \simeq 17{,}00$

$\frac{be - b_w}{b - b_w} = 0{,}9235$ segun la tabla, luego be:

$be = 0{,}9235\ (3 - 0{,}56) + 0{,}56 = 2{,}80$ m.

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

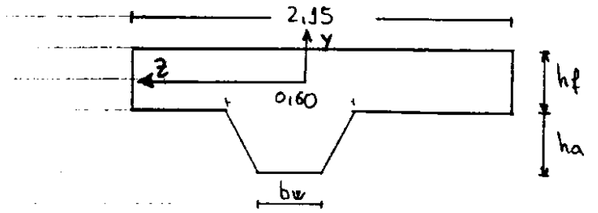
PROYECTO

HOJA ____ DE ____
FECHA

CARACTERISTICAS DE BARRAS:

BARRAS TRANSVERSALES DE LOSA INFERIOR

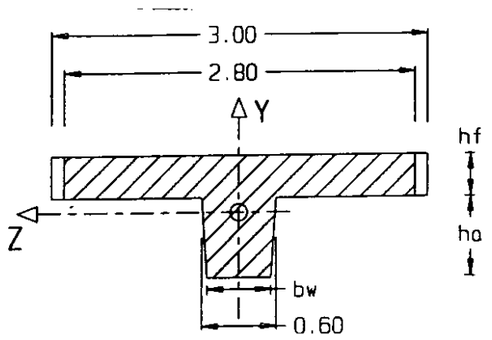
BARRAS DE BORDE:



A_x = Calculado con cadkey.
$A_y = b_w (h_f + h_a)$
$A_z = 2{,}15 \times h_f$
$I_x = \frac{1}{3}\left[h_f^3 \times 2{,}15 + b_w^3 \times h_a\right]$
I_y = Calculado con cadkey
I_z = " " "

SECC	A_x	A_y	A_z	I_x	I_y	I_z
b_1	1,2173.	0,5592	0,8110	0,0695	0,3513	0,1088
b_2	1,1019.	0,5071	0,7465	0,0590	0,3222	0,0760
b_3	0,9484.	0,4192	0,6876	0,0473	0,2919	0,0384
b_4	0,7636.	0,2870	0,6463	0,0320.	0,2628	0,0114
n_1	1,2557	0,5711	0,8432	0,0745	0,3646	0,1169
n_2	1,1684.	0,5388	0,7809	0,0647	0,3381	0,0949
n_3	1,0234	0,4642	0,7140	0,0530.	0,3061	0,0551
n_4	0,8627	0,3636	0,6611	0,0406.	0,2766	0,0237
n_5	1,0900	0,9238	0,9238	0,0795	0,4199	0,0233

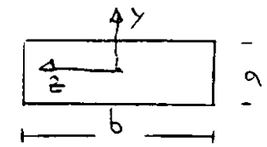
BARRAS INTERMEDIAS



AX = Calculado con CADKEY
AY = $b_w (h_f + h_a)$
AZ = $2{,}80 \times h_f$
IX = $\frac{1}{3}\left[h_f^3 \times 2{,}80 + b_w^3 \times h_a\right]$
IY = Calculado con CADKEY
IZ = " " "

Secc.	Ax	AY	AZ	IX	IY	IZ
b_1	1,4624	0,5592	1,0562	0,0811	0,7004	0,1185
b_2	1,3276	0,5071	0,9722.	0,0681	0,6444	0,0828
b_3	1,1563	0,4192	0,8954	0,0544.	0,5921	0,0421
b_4	0,9590	0,2870	0,8417	0,0379.	0,5533	0,0131
n_1	1,5107	0,5711	1,0982	0,0876	0,7279	0,1273
n_2	1,4045	0,5388	1,0170	0,0751	0,6744	0,1034
n_3	1,2393	0,4642	0,9299.	0,0609	0,6157	0,0602
n_4	1,0626	0,3636	0,8610.	0,0469.	0,5681	0,0262
n_5	1,4196	1,2031	1,2031	0,1078	0,9275	0,0304

CARACTERISTICAS DE BARRAS (Cont)



Barras 5

a = 0,64 m, b = 3,75 m

$A_x = 2{,}4000\ m^2$, $A_y = A_z = 2{,}0339\ m^2$

$I_x = 0{,}2194\ m^4$, $I_y = 2{,}8125\ m^4$, $I_z = 0{,}0819\ m^4$

Barras 6, y 8 a 14

a = 0,40 m., b = 3,75 m.

$A_x = 1{,}5000\ m^2$, $A_y = A_z = 1{,}2712\ m^2$

$I_x = 0{,}0560\ m^4$, $I_y = 1{,}7578\ m^4$, $I_z = 0{,}0200\ m^4$

Barras 7.

a = 0,40, b = [(6,00 - 3,80) x 1,2]/2 + 0,75 = 2,07

$A_x = 0{,}8280\ m^2$, $A_y = A_z = 0{,}7017\ m^2$

$I_x = 0{,}0291\ m^4$, $I_y = 0{,}2957\ m^4$, $I_z = 0{,}0110\ m^4$

CARACTERISTICAS DE BARRAS. (Cont.)

Barras 15 a 17

a = 0,40m ; b = 0,95 = (0,120 + 0,75)

$A_x = 0,3800\ m^2$, $A_y = A_z = 0,3220\ m^2$

$I_x = 0,0149\ m^4$, $I_y = 0,0286$; $I_z = 0,0051\ m^4$

Barras 26, 47... y similares

a = 0,64 m , b = 6,0 m

$A_x = 3,8400\ m^2$, $A_y = A_z = 3,2542\ m^2$

$I_x = 0,2446\ m^4$, $I_y = 11,5200\ m^4$, $I_z = 0,1311\ m^4$

Barras 27, 48, 29 a 35 y similares.

a = 0,40m , b = 6,0 m

$A_x = 2,4000\ m^2$, $A_y = A_z = 2,0339\ m^2$

$I_x = 0,0613\ m^4$, $I_y = 7,2000\ m^4$, $I_z = 0,0320\ m^4$

CARACTERISTICAS DE BARRAS (Cont.)

Barras 28, 49 y similares.

a = 0,40 m , b = (6,0 - 3,8) x 1,2 = 2,64 m

$A_x = 1,0560\ m^2$, $A_y = A_z = 0,2949\ m^2$

$I_x = 0,0255\ m^4$, $I_y = 0,6133\ m^4$, $I_z = 0,0141\ m^4$

Barras 36 a 38 y similares

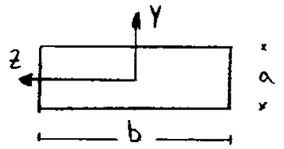
a = 0,40 m , b = 0,40 m.

$A_x = 0,1600\ m^2$, $A_y = A_z = 0,1356\ m^2$

$I_x = 0,0036\ m^4$, $I_y = I_z = 0,0021\ m^4$

CARACTERISTICAS DE BARRAS

LONGITUDINALES.



Barras 228 a 247.

a = 0,49 m; b = 0,67 m

$A_x = 0{,}3283\ m^2$, $A_y = A_z = 0{,}2782\ m^2$

$I_x = 0{,}0073\ m^4$, $I_y = 0{,}0123\ m^4$, $I_z = 0{,}0066$

Barras 248 a 267

a = 0,45 m b = 1,43 m

$A_x = 0{,}6435\ m^2$, $A_y = A_z = 0{,}5453\ m^2$

$I_x = 0{,}0174\ m^4$, $I_y = 0{,}1097\ m^4$, $I_z = 0{,}0109\ m^4$

Barras 268 a 287

a = 0,44 m b = 1,44 m

$A_x = 0{,}6336\ m^2$, $A_y = A_z = 0{,}5369\ m^2$

$I_x = 0{,}0165\ m^4$; $I_y = 0{,}1095\ m^4$, $I_z = 0{,}0102$

CARACTERISTICAS DE BARRAS (Cont.)

Barras 288 a 307

a = 0,41 m b = 1,44 m

$A_x = 0{,}5904\ m^2$, $A_y = A_z = 0{,}5003\ m^2$

$I_x = 0{,}0136\ m^4$, $I_y = 0{,}1020\ m^4$, $I_z = 0{,}0083\ m^4$

Barras 308 a 327

$A_x = 1{,}0387\ m^2$, $A_y = A_z = 0{,}7322$

$I_x = 0{,}0383\ m^4$ $I_y = 0{,}1602\ m^4$ $I_z = 0{,}0536\ m^4$

Para el cálculo de A_y, A_z e I_x se ha considerado un rectángulo de a = 0,60 y b = 1,44 m

Barras 328 a 337.

$A_x = 0{,}4838$; $A_y = A_z = 0{,}41\ m^2$

$I_x = 0{,}0080\ m^4$ $I_y = 0{,}0399\ m^4$ $I_z = 0{,}0109\ m^4$

CARACTERISTICAS DE BARRAS (Cont.)

Barras 338 a 347.

$A_x = 0,36\ m^2$, $A_y = A_z = 0,3051\ m^2$

$I_x = 0,0069\ m^4$ $I_y = 0,0243\ m^4$ $I_z = 0,0048\ m^4$

Barras 348 a 357

$A_x = 0,32\ m^2$, $A_y = A_z = 0,2712\ m^2$

$I_x = 0,0059\ m^4$ $I_y = 0,0171\ m^4$ $I_z = 0,0043\ m^4$

Barras 358 a 367

$A_x = 0,2305\ m^2$ $A_y = A_z = 0,1953\ m^2$

$I_x = 0,0036\ m^4$ $I_y = 0,0064\ m^4$ $I_z = 0,0031\ m^4$

Barras 368 a 397

$A_x = 0,1739\ m^2$; $A_y = A_z = 0,1474\ m^2$

$I_x = 0,0021\ m^4$ $I_y = 0,0029\ m^4$ $I_z = 0,0022\ m^4$

CARACTERISTICAS DE BARRAS. (Cont.)

Barras 398 a 407

$a = 0,40$; $b = 0,75$

$A_x = 0,30\ m^2$; $A_y = A_z = 0,2542\ m^2$

$I_x = 0,0054\ m^4$; $I_y = 0,0141\ m^4$ $I_z = 0,004\ m^4$

Barras 408 a 417

$a = 0,40$, $b = 1,24$

$A_x = 0,496\ m^2$, $A_y = A_z = 0,4203\ m^2$

$I_x = 0,0106\ m^4$, $I_y = 0,0636\ m^4$, $I_z = 0,0066\ m^4$

Barras 418 a 427.

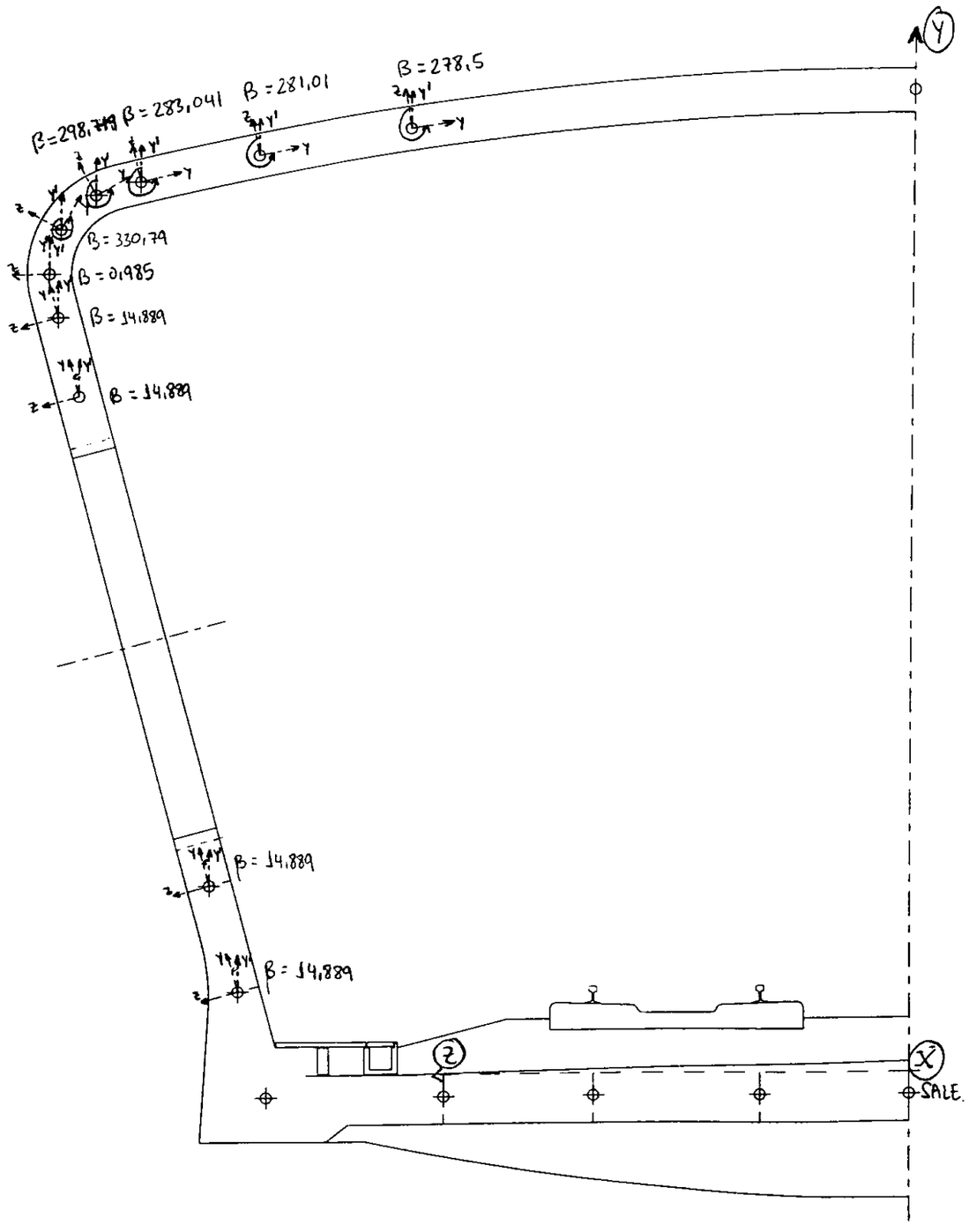
$a = 0,40$, $b = 0,70$

$A_x = 0,28\ m^2$, $A_y = A_z = 0,2373\ m^2$

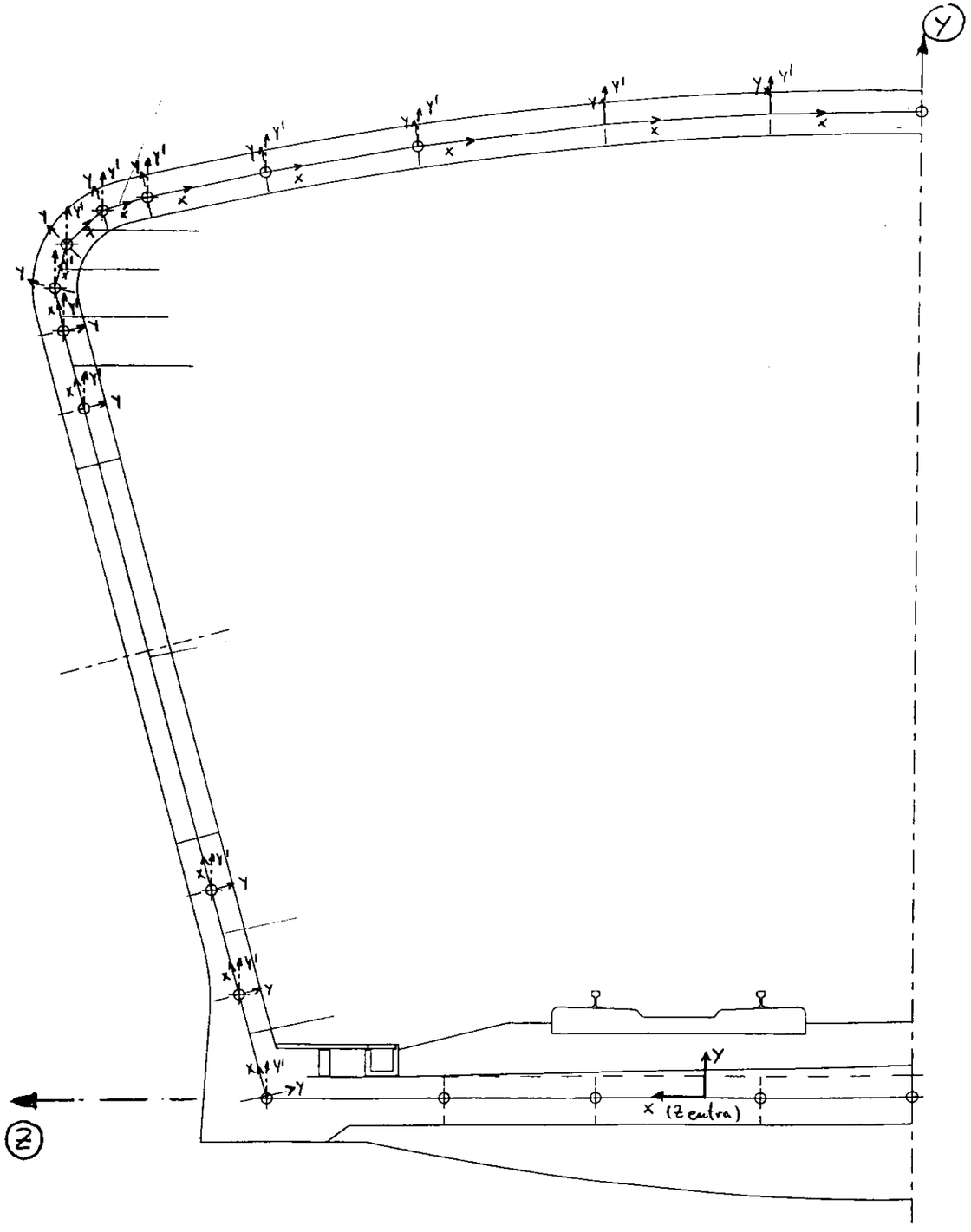
$I_x = 0,0072\ m^4$; $I_y = 0,0114\ m^4$, $I_z = 0,0037\ m^4$

Angulo "BETA" de las barras

ANGULO β DE BARRAS LONGITUDINALES.



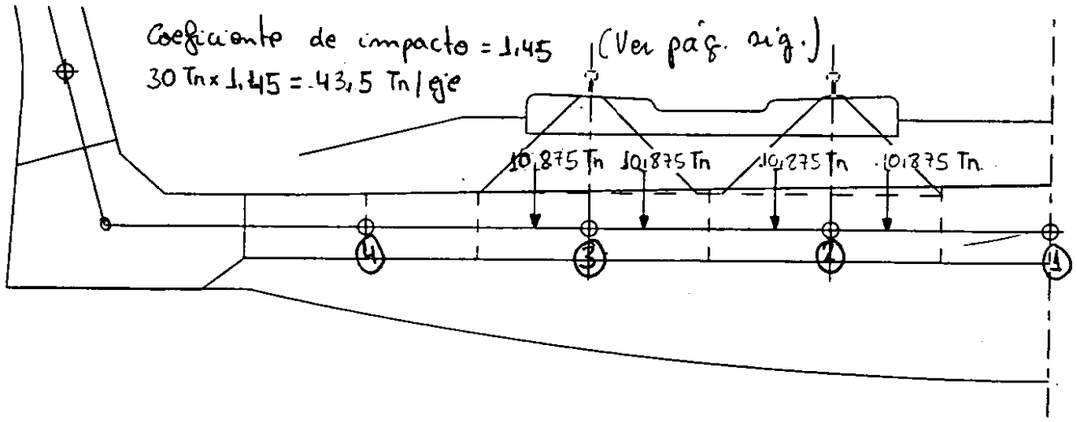
Ejs de Barras transversales

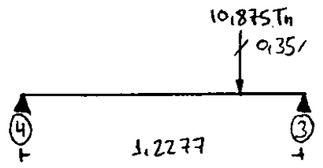


Valores de las acciones

SOBRECARGAS MOVILES DE USO.

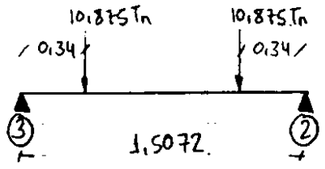
- TREN TIPO-A. (3 ejs de 30 Tn.)



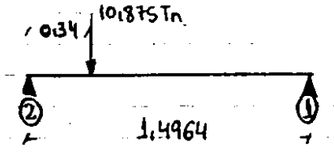


$R_4 = \frac{10,875 \times 0,135}{1,2277} = 3,10$ Tn

$R_3 = 7,775$ Tn.



$R_3 = R_2 = 10,875$ Tn.



$R_2 = \frac{10,875 \times 1,1564}{1,4964} = 8,404$ Tn

$R_1 = 2,471$ Tn.

TOTALES

$R_1 = 2,47$	=	2,47 Tn/eje.
$R_2 = 8,404 + 10,875$	=	19,28 Tn./eje.
$R_3 = 10,875 + 7,775$	=	18,65 Tn./eje.
$R_4 = 3,10$	=	3,10 Tn/eje.

CALCULO DEL COEFICIENTE DE IMPACTO

Si $V \leq 200$ km/h (Según "INSTRUCCION ..." M.O.P.U.)

$$I = \frac{114\sqrt{L}}{3,10 - 1,76\sqrt{L} + L}$$

$L = 11,70$

$I = 44,57\ \%$

El coeficiente de impacto es 1,45

Si $V > 200$ km/h (Según U.I.C.)

$$k = 0,73 + \frac{2,16}{\sqrt{L} - 0,2} \quad \text{para } 3,6 < L < 67$$

$L = 11,70$m, $k = 0,73 + \frac{2,16}{\sqrt{11,70} - 0,2} = 1,40$

El coeficiente de impacto es 1,40

Luego escogemos como coeficiente de impacto el resultante de considerar $V \leq 200$ km/h.

C. Impacto = 1,45.

Listado de datos

```
estr Modelo espacial (calculo de la secc. transversal)
nume de nudo  248
nume de barr  427
nume de hipo   13
nume de apoy   53
tipo port espa
list nada
coor de nudo
      1      0.0000      0.0000      1.4964
      2      0.0000      0.0000      0.0000 desp z giro x y
      3      0.0000      0.0000      3.0036
      4      0.0000      0.0000      4.2313
      5      0.0000      0.0000      5.8500 desp x y z
      6      0.0000      0.9604      6.1049
      7      0.0000      1.9270      6.3615
      8      0.0000      6.4020      7.5493
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     23      3.0000      0.0000      5.8500 desp y
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         43 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
         44 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
         45 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
         46 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
         47 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
         48 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
         49 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
   50 a  56 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
   57 a  59 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
         60 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
         61 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
         62 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
         63 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
         64 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
         65 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
         66 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
         67 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
         68 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
         69 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
         70 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
   71 a  77 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
   78 a  80 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
         81 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
         82 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
         83 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
         84 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
         85 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
         86 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
         87 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
         88 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
         89 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
         90 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
         91 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
   92 a  98 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
   99 a 101 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
        102 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
        103 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
        104 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
        105 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
        106 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
        107 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
```

	108	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	109	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	110	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	111	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	112	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
113 a	119	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
120 a	122	0.1600	0.1356	0.1356	0.0036	0.0021	0.0021		
	123	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	124	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	125	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	126	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	127	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	128	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	129	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	130	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	131	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	132	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	133	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
34 a	140	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
141 a	143	0.1600	0.1356	0.1356	0.0036	0.0021	0.0021		
	144	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	145	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	146	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	147	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	148	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	149	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	150	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	151	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	152	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	153	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	154	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
155 a	161	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
162 a	164	0.1600	0.1356	0.1356	0.0036	0.0021	0.0021		
	165	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	166	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	167	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	168	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	169	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	170	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	171	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	172	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	173	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	174	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	175	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
176 a	182	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
183 a	185	0.1600	0.1356	0.1356	0.0036	0.0021	0.0021		
	186	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	187	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	188	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	189	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	190	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	191	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	192	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	193	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	194	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	195	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	196	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
197 a	203	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
204 a	206	0.1600	0.1356	0.1356	0.0036	0.0021	0.0021		
	207	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	208	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	209	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	210	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	211	1.4624	0.5592	1.0562	0.0811	0.7004	0.1185		
	212	1.3276	0.5071	0.9722	0.0681	0.6444	0.0828		
	213	1.1563	0.4192	0.8954	0.0544	0.5921	0.0421		
	214	0.9590	0.2870	0.8417	0.0379	0.5533	0.0131		
	215	3.8400	3.2542	3.2542	0.2446	11.520	0.1311		
	216	2.4000	2.0339	2.0339	0.0613	7.2000	0.0320		
	217	1.0560	0.8949	0.8949	0.0255	0.6133	0.0141		
218 a	224	1.5000	1.2712	1.2712	0.0560	1.7578	0.0200		
225 a	227	0.3800	0.3220	0.3220	0.0149	0.0286	0.0051		
228 a	247	0.3283	0.2788	0.2788	0.0073	0.0123	0.0066		
248 a	267	0.6435	0.5453	0.5453	0.0174	0.1097	0.0109		
268 a	287	0.6336	0.5369	0.5369	0.0165	0.1095	0.0102		
288 a	307	0.5904	0.5003	0.5003	0.0136	0.1020	0.0083		
308 a	327	1.0387	0.7322	0.7322	0.0383	0.1602	0.0536		
328 a	337	0.4838	0.4100	0.4100	0.0080	0.0399	0.0109	beta	14.889
338 a	347	0.3600	0.3051	0.3051	0.0069	0.0243	0.0048	beta	14.889
348 a	357	0.3200	0.2712	0.2712	0.0059	0.0171	0.0043	beta	14.889
358 a	367	0.2305	0.1953	0.1953	0.0036	0.0064	0.0031	beta	14.889
368 a	377	0.1739	0.1474	0.1474	0.0021	0.0029	0.0022	beta	0.985
378 a	387	0.1739	0.1474	0.1474	0.0021	0.0029	0.0022	beta	330.790
388 a	397	0.1739	0.1474	0.1474	0.0021	0.0029	0.0022	beta	298.719
398 a	407	0.3000	0.2542	0.2542	0.0054	0.0141	0.0040	beta	283.041
408 a	417	0.4960	0.4203	0.4203	0.0106	0.0636	0.0066	beta	281.010
418 a	427	0.2800	0.2373	0.2373	0.0072	0.0114	0.0037	beta	278.500

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tama de nudo
  4 0. 0.255
 21 0. 0.255
 25 0. 0.255
 42 0. 0.255
 46 0. 0.255
 63 0. 0.255
 67 0. 0.255
 84 0. 0.255
 88 0. 0.255
105 0. 0.255
109 0. 0.255
126 0. 0.255
130 0. 0.255
147 0. 0.255
151 0. 0.255
168 0. 0.255
172 0. 0.255
189 0. 0.255
193 0. 0.255
210 0. 0.255
214 0. 0.255
cons de mate
    1 3000000. 1250000. 2.5
hipo  1 Tren-A (sobre viga transv-1)
carg en barr
* trans-1
228 fuer y conc  -2.47  0.001
228 mome z conc   1.85  0.001
```

```
 248 fuer y conc -19.28  0.001
 248 mome z conc  14.46  0.001
 268 fuer y conc -18.65  0.001
 268 mome z conc  13.99  0.001
 288 fuer y conc  -3.10  0.001
 288 mome z conc   2.33  0.001
 228 fuer y conc  -2.47  0.75
 248 fuer y conc -19.28  0.75
 268 fuer y conc -18.65  0.75
 288 fuer y conc  -3.10  0.75
 228 fuer y conc  -2.47  2.25
 248 fuer y conc -19.28  2.25
 268 fuer y conc -18.65  2.25
 288 fuer y conc  -3.10  2.25
hipo  2 Tren-A (sobre viga transv-2)
carg en barr
* trans-2
 ?8 fuer y conc  -2.47 -1.500
 248 fuer y conc -19.28 -1.500
 268 fuer y conc -18.65 -1.500
 288 fuer y conc  -3.10 -1.500
 229 fuer y conc  -2.47  0.001
 249 fuer y conc -19.28  0.001
 269 fuer y conc -18.65  0.001
 289 fuer y conc  -3.10  0.001
 229 fuer y conc  -2.47  1.500
 2?9 fuer y conc -19.28  1.500
   9 fuer y conc -18.65  1.500
 289 fuer y conc  -3.10  1.500
hipo  3 Tren-A (sobre viga transv-3)
carg en barr
* trans-3
 229 fuer y conc  -2.47 -1.500
 249 fuer y conc -19.28 -1.500
 269 fuer y conc -18.65 -1.500
 289 fuer y conc  -3.10 -1.500
  '0 fuer y conc  -2.47  0.001
 .50 fuer y conc -19.28  0.001
 270 fuer y conc -18.65  0.001
 290 fuer y conc  -3.10  0.001
 230 fuer y conc  -2.47  1.500
 250 fuer y conc -19.28  1.500
 270 fuer y conc -18.65  1.500
 290 fuer y conc  -3.10  1.500
hipo  4 Tren-A (sobre viga transv-4)
carg en barr
* trans-4
 230 fuer y conc  -2.47 -1.500
 250 fuer y conc -19.28 -1.500
 270 fuer y conc -18.65 -1.500
 290 fuer y conc  -3.10 -1.500
 231 fuer y conc  -2.47  0.001
 251 fuer y conc -19.28  0.001
 271 fuer y conc -18.65  0.001
 291 fuer y conc  -3.10  0.001
 2   fuer y conc  -2.47  1.500
 2?1 fuer y conc -19.28  1.500
 271 fuer y conc -18.65  1.500
 291 fuer y conc  -3.10  1.500
hipo  5 Tren-A (sobre viga transv-5)
carg en barr
* trans-5
 231 fuer y conc  -2.47 -1.500
 251 fuer y conc -19.28 -1.500
 271 fuer y conc -18.65 -1.500
 291 fuer y conc  -3.10 -1.500
 232 fuer y conc  -2.47  0.001
 252 fuer y conc -19.28  0.001
 272 fuer y conc -18.65  0.001
 292 fuer y conc  -3.10  0.001
 232 fuer y conc  -2.47  1.500
 252 fuer y conc -19.28  1.500
 272 fuer y conc -18.65  1.500
 292 fuer y conc  -3.10  1.500
hipo  6 Tren-A (sobre viga transv-6)
carg en barr
* trans-6
 232 fuer y conc  -2.47 -1.500
 252 fuer y conc -19.28 -1.500
 272 fuer y conc -18.65 -1.500
 292 fuer y conc  -3.10 -1.500
 233 fuer y conc  -2.47  0.001
 253 fuer y conc -19.28  0.001
 273 fuer y conc -18.65  0.001
 293 fuer y conc  -3.10  0.001
 233 fuer y conc  -2.47  1.500
 253 fuer y conc -19.28  1.500
 273 fuer y conc -18.65  1.500
 293 fuer y conc  -3.10  1.500
hipo  7 Tren-A (sobre viga transv-7)
carg en barr
* trans-7
 233 fuer y conc  -2.47 -1.500
 253 fuer y conc -19.28 -1.500
 273 fuer y conc -18.65 -1.500
  93 fuer y conc  -3.10 -1.500
 234 fuer y conc  -2.47  0.001
 254 fuer y conc -19.28  0.001
 274 fuer y conc -18.65  0.001
 294 fuer y conc  -3.10  0.001
 234 fuer y conc  -2.47  1.500
 254 fuer y conc -19.28  1.500
 274 fuer y conc -18.65  1.500
 294 fuer y conc  -3.10  1.500
hipo  8 Tren-A (sobre viga transv-8)
carg en barr
* trans-8
 234 fuer y conc  -2.47 -1.500
 254 fuer y conc -19.28 -1.500
 274 fuer y conc -18.65 -1.500
 294 fuer y conc  -3.10 -1.500
 235 fuer y conc  -2.47  0.001
 255 fuer y conc -19.28  0.001
 275 fuer y conc -18.65  0.001
 295 fuer y conc  -3.10  0.001
 235 fuer y conc  -2.47  1.500
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 255 fuer y conc -19.28  1.500
 275 fuer y conc -18.65  1.500
 295 fuer y conc  -3.10  1.500
 hipo  9 Tren-A (sobre viga transv-9)
 carg en barr
 * trans-9
 235 fuer y conc  -2.47 -1.500
 255 fuer y conc -19.28 -1.500
 275 fuer y conc -18.65 -1.500
 295 fuer y conc  -3.10 -1.500
 236 fuer y conc  -2.47  0.001
 256 fuer y conc -19.28  0.001
 276 fuer y conc -18.65  0.001
 296 fuer y conc  -3.10  0.001
 236 fuer y conc  -2.47  1.500
 256 fuer y conc -19.28  1.500
 276 fuer y conc -18.65  1.500
   6 fuer y conc  -3.10  1.500
 ipo 10 Tren-A (sobre viga transv-10)
 carg en barr
 * trans-10
 236 fuer y conc  -2.47 -1.500
 256 fuer y conc -19.28 -1.500
 276 fuer y conc -18.65 -1.500
 296 fuer y conc  -3.10 -1.500
 237 fuer y conc  -2.47  0.001
 2?7 fuer y conc -19.28  0.001
 ? 7 fuer y conc -18.65  0.001
 297 fuer y conc  -3.10  0.001
 237 fuer y conc  -2.47  1.500
 257 fuer y conc -19.28  1.500
 277 fuer y conc -18.65  1.500
 297 fuer y conc  -3.10  1.500
 hipo 11 Tren-A (sobre viga transv-11)
 carg en barr
 * trans-11
   7 fuer y conc  -2.47 -1.500
 :57 fuer y conc -19.28 -1.500
 277 fuer y conc -18.65 -1.500
 297 fuer y conc  -3.10 -1.500
 238 fuer y conc  -2.47  0.001
 258 fuer y conc -19.28  0.001
 278 fuer y conc -18.65  0.001
 298 fuer y conc  -3.10  0.001
 238 fuer y conc  -2.47  1.500
 258 fuer y conc -19.28  1.500
 278 fuer y conc -18.65  1.500
 298 fuer y conc  -3.10  1.500
 hipo 12 Tren-A (sobre viga transv-12)
 carg en barr
 * trans-12
 238 fuer y conc  -2.47 -1.500
 258 fuer y conc -19.28 -1.500
 278 fuer y conc -18.65 -1.500
 298 fuer y conc  -3.10 -1.500
 2   fuer y conc  -2.47  0.001
 25? fuer y conc -19.28  0.001
 279 fuer y conc -18.65  0.001
 299 fuer y conc  -3.10  0.001
 239 fuer y conc  -2.47  1.500
 259 fuer y conc -19.28  1.500
 279 fuer y conc -18.65  1.500
 299 fuer y conc  -3.10  1.500
 hipo 13 Tren-A (sobre viga transv-13)
 carg en barr
 * trans-13
 239 fuer y conc  -2.47 -1.500
 259 fuer y conc -19.28 -1.500
 279 fuer y conc -18.65 -1.500
 299 fuer y conc  -3.10 -1.500
 240 fuer y conc  -2.47  0.001
 260 fuer y conc -19.28  0.001
 280 fuer y conc -18.65  0.001
 300 fuer y conc  -3.10  0.001
 240 fuer y conc  -2.47  1.500
 260 fuer y conc -19.28  1.500
 280 fuer y conc -18.65  1.500
 300 fuer y conc  -3.10  1.500
 calc y alma
 2 2 2
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Listado de resultados

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 1

hipo 1 Tren-A (sobre viga transv-1)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
1	2	0.474	-2.847	0.185	4.71	-0.04	-195.93
1	1	-0.474	2.847	-0.185	-4.71	-0.24	191.67
2	1	0.430	-39.126	0.808	13.82	0.28	-194.51
2	3	-0.430	39.126	-0.808	-13.82	-1.50	135.54
3	3	0.147	-76.469	2.360	19.15	1.98	-141.50
3	4	-0.147	76.469	-2.360	-19.15	-4.88	47.62
4	4	-0.763	-84.679	5.217	17.85	6.72	-54.71
4	5	0.763	84.679	-5.217	-17.85	-15.16	-82.36
18	20	-0.286	-1.786	0.068	3.90	0.47	-119.36
18	19	0.286	1.786	-0.068	-3.90	-0.58	116.68
19	19	-0.422	-19.235	-0.103	16.16	0.92	-115.91
19	21	0.422	19.235	0.103	-16.16	-0.77	86.92
20	21	-0.672	-34.654	-1.505	24.88	1.84	-85.39
20	22	0.672	34.654	1.505	-24.88	0.01	42.85
21	22	-0.854	-33.478	-5.073	23.75	2.13	-41.40
21	23	0.854	33.478	5.073	-23.75	6.08	-12.79

HIPOTESIS 2

hipo 2 Tren-A (sobre viga transv-2)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
18	20	-1.949	3.255	0.056	0.87	0.69	-126.17
18	19	1.949	-3.255	-0.056	-0.87	-0.78	131.04
19	19	-1.876	-22.162	0.010	2.37	0.89	-132.31
19	21	1.876	22.162	-0.010	-2.37	-0.91	98.91
20	21	-1.670	-48.202	-0.617	3.59	1.31	-102.29
20	22	1.670	48.202	0.617	-3.59	-0.55	43.11
21	22	-1.267	-46.355	-2.161	4.46	1.37	-47.99
21	23	1.267	46.355	2.161	-4.46	2.13	-27.04

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 3

hipo 3 Tren-A (sobre viga transv-3)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
22	25	-10.288	2.817	-0.025	0.24	0.16	-122.15
22	24	10.288	-2.817	0.025	-0.24	-0.12	126.36
23	24	-10.739	-24.206	-0.028	0.63	0.21	-128.65
23	26	10.739	24.206	0.028	-0.63	-0.17	92.17
24	26	-11.724	-55.056	0.134	0.95	0.37	-97.48
24	27	11.724	55.056	-0.134	-0.95	-0.53	29.89
25	27	-13.187	-61.408	0.535	1.24	0.90	-36.28
25	28	13.187	61.408	-0.535	-1.24	-1.77	-63.12

HIPOTESIS 4

hipo 4 Tren-A (sobre viga transv-4)

ESFUERZOS EN BARRAS

ARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
39	43	-2.054	3.854	0.009	0.06	-0.03	-110.75
39	42	2.054	-3.854	-0.009	-0.06	0.02	116.52
40	42	-1.808	-20.391	0.036	0.14	-0.05	-118.02
40	44	1.808	20.391	-0.036	-0.14	0.00	87.29
41	44	-1.309	-45.263	0.069	0.20	-0.05	-91.07
41	45	1.309	45.263	-0.069	-0.20	-0.03	35.50
42	45	-0.696	-42.611	0.038	0.27	-0.03	-40.81
42	46	0.696	42.611	-0.038	-0.27	-0.04	-28.17

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 5

hipo 5 Tren-A (sobre viga transv-5)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
43	48	-10.462	3.045	0.018	0.02	-0.07	-117.95
43	47	10.462	-3.045	-0.018	-0.02	0.04	122.51
44	47	-10.945	-23.622	0.054	0.03	-0.07	-124.81
44	49	10.945	23.622	-0.054	-0.03	-0.01	89.20
45	49	-11.992	-54.207	0.092	0.05	-0.05	-94.53
45	50	11.992	54.207	-0.092	-0.05	-0.07	27.98
46	50	-13.529	-60.410	0.126	0.09	0.02	-34.43
46	51	13.529	60.410	-0.126	-0.09	-0.22	-63.35

HIPOTESIS 6

hipo 6 Tren-A (sobre viga transv-6)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
60	66	-2.108	3.885	0.012	0.00	-0.05	-109.87
60	65	2.108	-3.885	-0.012	0.00	0.03	115.68
61	65	-1.855	-20.308	0.035	0.00	-0.05	-117.20
61	67	1.855	20.308	-0.035	0.00	0.00	86.59
62	67	-1.339	-45.132	0.051	0.00	-0.04	-90.39
62	68	1.339	45.132	-0.051	0.00	-0.02	34.99
63	68	-0.703	-42.438	0.053	0.01	-0.02	-40.32
63	69	0.703	42.438	-0.053	-0.01	-0.06	-28.38

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 7

hipo 7 Tren-A (sobre viga transv-7)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
64	71	-10.517	3.048	0.008	0.00	-0.03	-117.78
64	70	10.517	-3.048	-0.008	0.00	0.02	122.34
65	70	-11.000	-23.616	0.021	0.00	-0.04	-124.64
65	72	11.000	23.616	-0.021	0.00	0.00	89.05
66	72	-12.048	-54.203	0.031	0.00	-0.03	-94.38
66	73	12.048	54.203	-0.031	0.00	-0.01	27.84
67	73	-13.586	-60.414	0.038	0.01	-0.03	-34.30
67	74	13.586	60.414	-0.038	-0.01	-0.03	-63.49

HIPOTESIS 8

hipo 8 Tren-A (sobre viga transv-8)

ESFUERZOS EN BARRAS

ARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
81	89	-2.119	3.885	0.005	0.00	-0.02	-109.82
81	88	2.119	-3.885	-0.005	0.00	0.01	115.64
82	88	-1.864	-20.306	0.014	0.00	-0.02	-117.15
82	90	1.864	20.306	-0.014	0.00	0.00	86.54
83	90	-1.344	-45.127	0.022	-0.01	-0.02	-90.35
83	91	1.344	45.127	-0.022	0.01	-0.01	34.95
84	91	-0.705	-42.430	0.026	-0.01	-0.01	-40.28
84	92	0.705	42.430	-0.026	0.01	-0.03	-28.40

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 9

hipo 9 Tren-A (sobre viga transv-9)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
85	94	-10.527	3.048	0.003	0.00	-0.01	-117.77
85	93	10.527	-3.048	-0.003	0.00	0.01	122.33
86	93	-11.009	-23.616	0.008	0.00	-0.01	-124.63
86	95	11.009	23.616	-0.008	0.00	0.00	89.03
87	95	-12.056	-54.204	0.011	-0.01	-0.01	-94.37
87	96	12.056	54.204	-0.011	0.01	0.00	27.83
88	96	-13.593	-60.415	0.014	0.00	-0.01	-34.29
88	97	13.593	60.415	-0.014	0.00	-0.01	-63.50

HIPOTESIS 10

hipo 10 Tren-A (sobre viga transv-10)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
102	112	-2.123	3.885	0.001	0.00	-0.01	-109.82
102	111	2.123	-3.885	-0.001	0.00	0.00	115.63
103	111	-1.868	-20.306	0.004	0.00	-0.01	-117.15
103	113	1.868	20.306	-0.004	0.00	0.00	86.54
104	113	-1.347	-45.127	0.006	-0.01	-0.01	-90.35
104	114	1.347	45.127	-0.006	0.01	0.00	34.95
105	114	-0.706	-42.429	0.007	-0.01	0.00	-40.28
105	115	0.706	42.429	-0.007	0.01	-0.01	-28.40

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 11

hipo 11 Tren-A (sobre viga transv-11)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
106	117	-10.529	3.048	0.000	0.00	0.00	-117.77
106	116	10.529	-3.048	0.000	0.00	0.00	122.33
107	116	-11.011	-23.616	0.000	0.00	0.00	-124.63
107	118	11.011	23.616	0.000	0.00	0.00	89.03
108	118	-12.058	-54.204	0.000	-0.01	0.00	-94.37
108	119	12.058	54.204	0.000	0.01	0.00	27.83
109	119	-13.595	-60.415	0.000	-0.01	0.00	-34.29
109	120	13.595	60.415	0.000	0.01	0.00	-63.51

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 13

hipo 13 Tren-A (sobre viga transv-13)

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
127	140	-10.527	3.048	-0.003	0.00	0.01	-117.77
127	139	10.527	-3.048	0.003	0.00	-0.01	122.33
128	139	-11.009	-23.616	-0.008	0.00	0.01	-124.63
128	141	11.009	23.616	0.008	0.00	0.00	89.03
129	141	-12.056	-54.204	-0.011	-0.01	0.01	-94.37
129	142	12.056	54.204	0.011	0.01	0.00	27.83
130	142	-13.593	-60.415	-0.014	-0.01	0.01	-34.29
130	143	13.593	60.415	0.014	0.01	0.01	-63.50

HIPOTESIS 12

hipo 12 Tren-A (sobre viga transv-12)

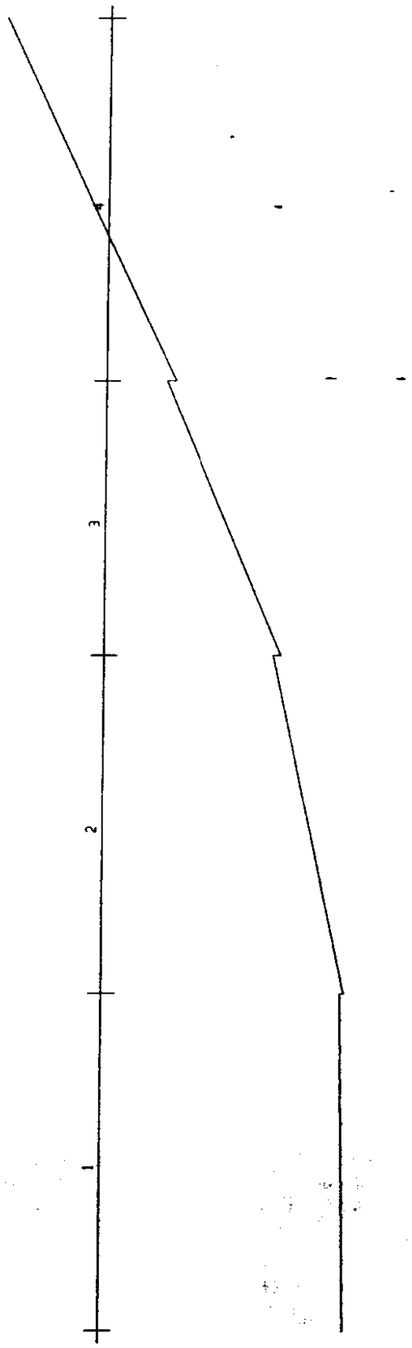
ESFUERZOS EN BARRAS

ARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
123	135	-2.123	3.885	-0.001	0.00	0.01	-109.82
123	134	2.123	-3.885	0.001	0.00	0.00	115.63
124	134	-1.868	-20.306	-0.004	0.00	0.01	-117.15
124	136	1.868	20.306	0.004	0.00	0.00	86.54
125	136	-1.347	-45.127	-0.006	-0.01	0.01	-90.35
125	137	1.347	45.127	0.006	0.01	0.00	34.95
126	137	-0.706	-42.429	-0.007	-0.01	0.00	-40.28
126	138	0.706	42.429	0.007	0.01	0.01	-28.40

Leyes graficas

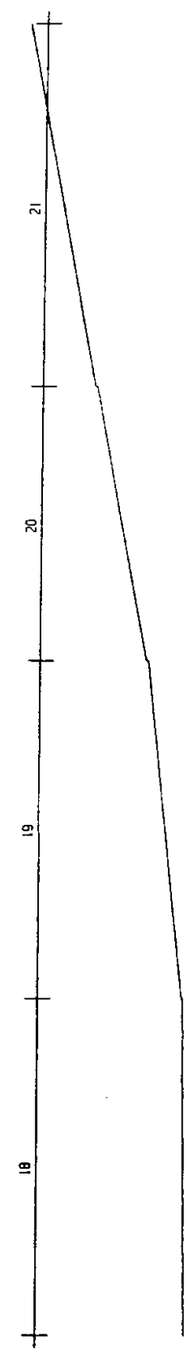
proc Modelo espacial (calculo de la secc. transversal)
hipo 1 Tren-A (sobre viga transv-1)

M. Z 50.0



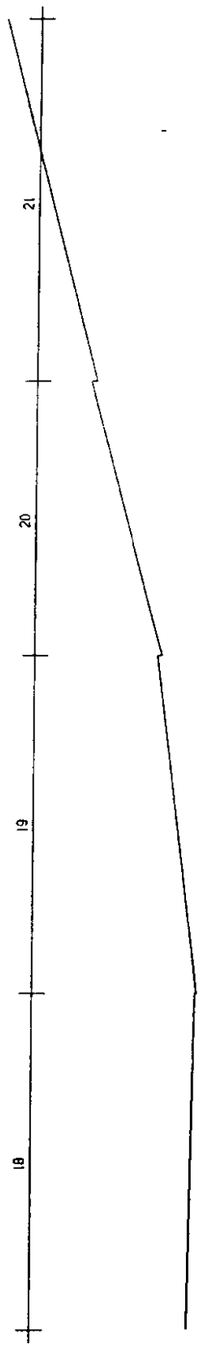
proc Modelo espacial (calculo de la secc. transversal)
hipo 1 Tren-A (sobre viga transv-1) (Barras 18 a 21)

M. Z 50.0



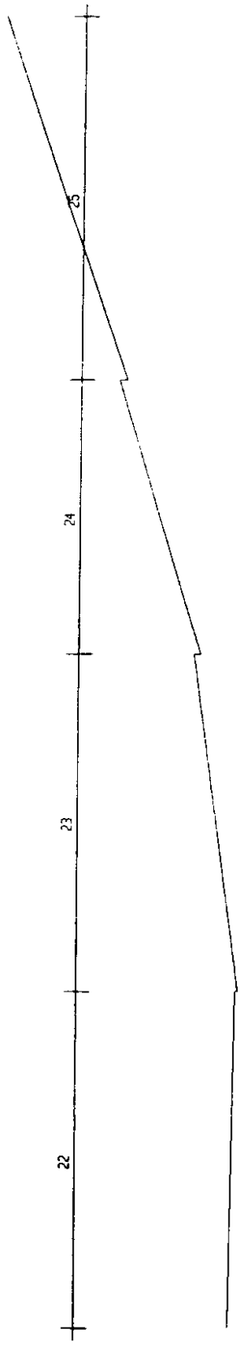
proc Modelo espacial (calculo de la secc. transversal)
hipo 2 Tren-A (sobre viga transv-2)

M. Z 50.0



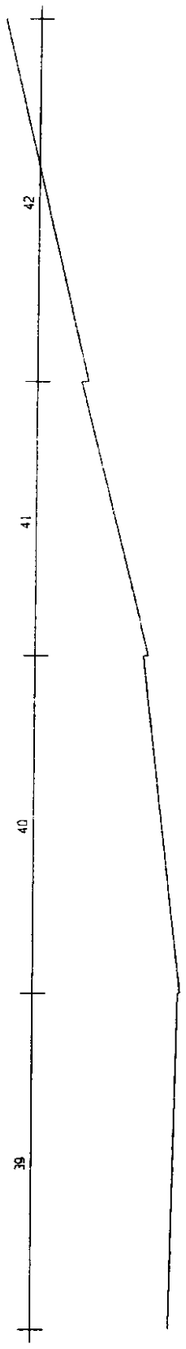
proc Modelo espacial (calculo de la secc. transversal)
hipo 3 Tren-A (sobre viga transv-3)

M. Z 50.0



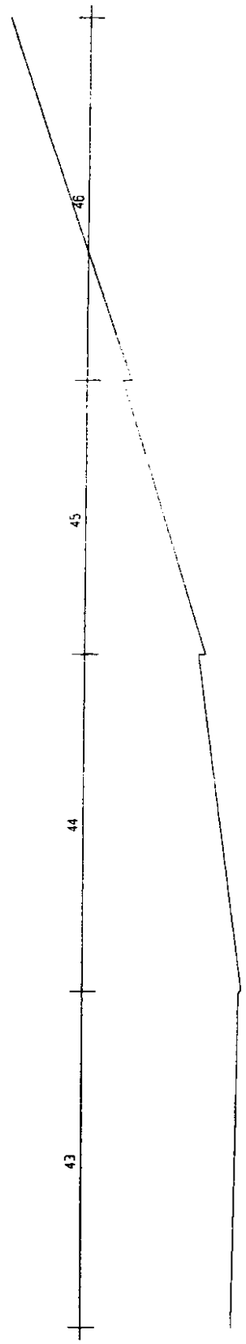
proc Modelo espacial (calculo de la secc. transversal)
hipo 4 Tren-A (sobre viga transv-4)

M. Z 50.0



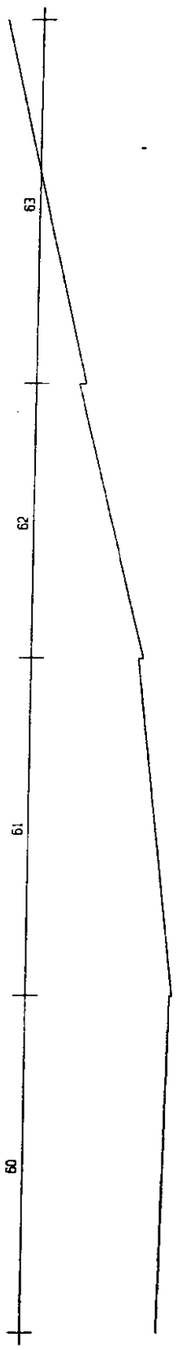
proc Modelo espacial (calculo de la secc. transversal)
hipo 5 Tren-A (sobre viga transv-5)

M. Z 50.0



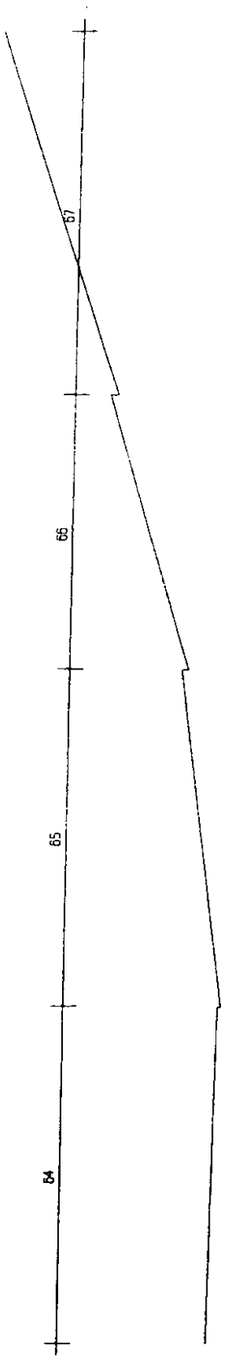
proc Modelo espacial (calculo de la secc. transversal)
hipo 6 Tren-A (sobre viga transv-6)

M. Z 50.0



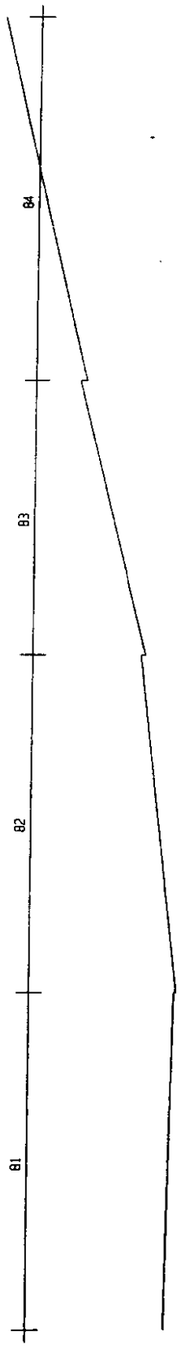
proc Modelo espacial (calculo de la secc. transversal)
hipo 7 Tren-A (sobre viga transv-7)

M. Z 50.0



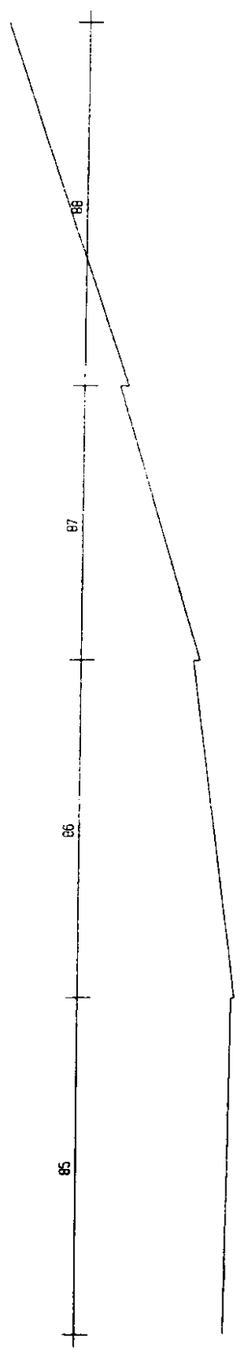
proc Modelo espacial (calculo de la secc. transversal)
hipo 8 Tren-A (sobre viga transv-8)

M. Z 50.0



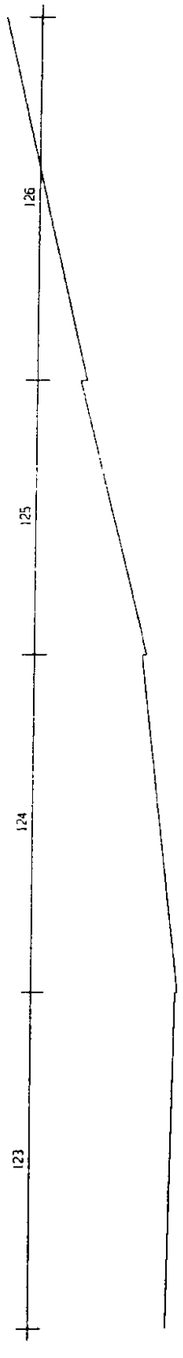
proc Modelo espacial (calculo de la secc. transversal)
hipo 9 Tren-A (sobre viga transv-9)

M. Z 50.0



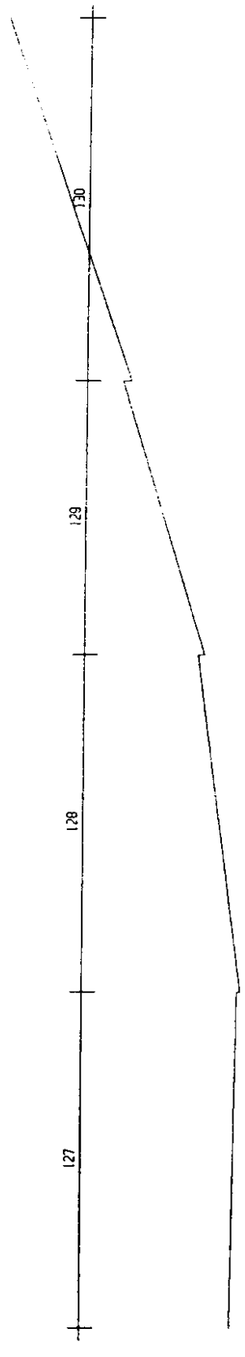
proc Modelo espacia· (calculo de la secc. transversal)
hipo 12 Tren-A (sobre viga transv-12)

M. Z 50.0



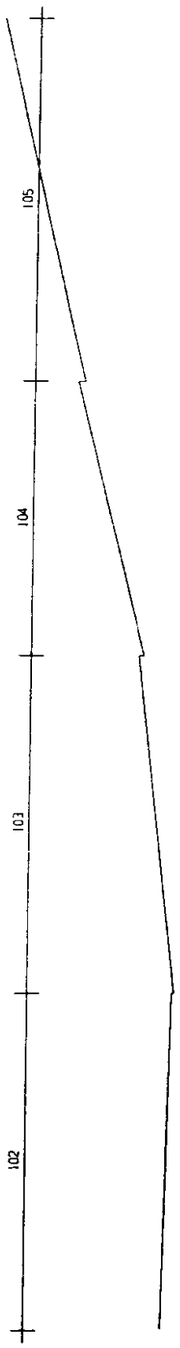
proc Modelo espacial (calculo de la secc. transversal)
hipo 13 Tren-A (sobre viga transv-13)

M Z 50.0



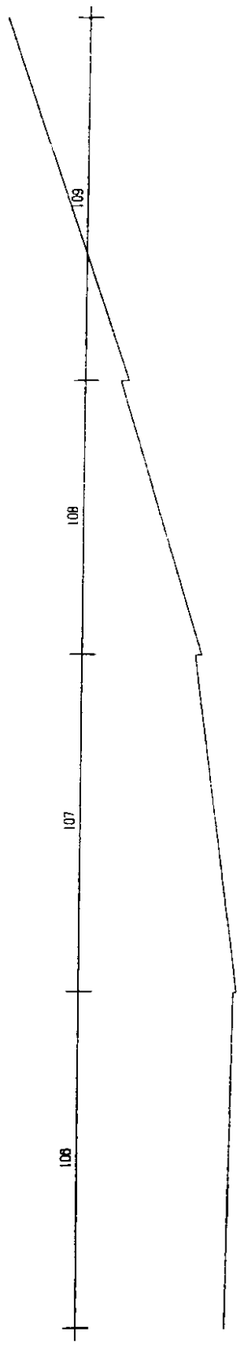
proc Modelo espacial (calculo de la secc. transversal)
hipo 10 Tren-A (sobre viga transv-10)

M. Z 50.0



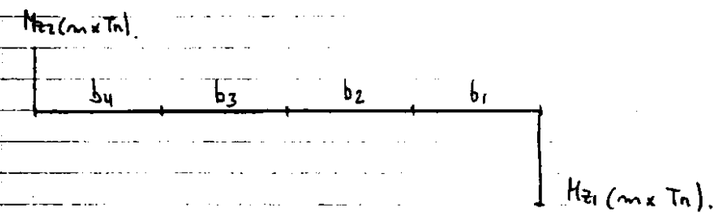
proc Modelo espacial (calculo de la secc. transversal)
hipo 11 Tren-A (sobre viga transv-11)

M. Z 50.0



Resumen de esfuerzos

RESUMEN DE ESFUERZOS



TRAVIESA Nº	M_{z_1}	M_{z_2}	T_{y_1}	T_{y_2}
T-1	195,93	-82,36	-2,85	84,68
T-2	126,17	-27,04	-3,26	46,36
T-3	122,15	-63,12	-2,81	61,41
T-4	110,75	-28,17	-3,85	42,61
T-5, 7, 9, 11 y 13	117,78	-63,49	-3,05	60,41
T-6, 8, 10 y 12	109,82	-28,40	-3,89	42,43

Se considerarán los casos siguientes:

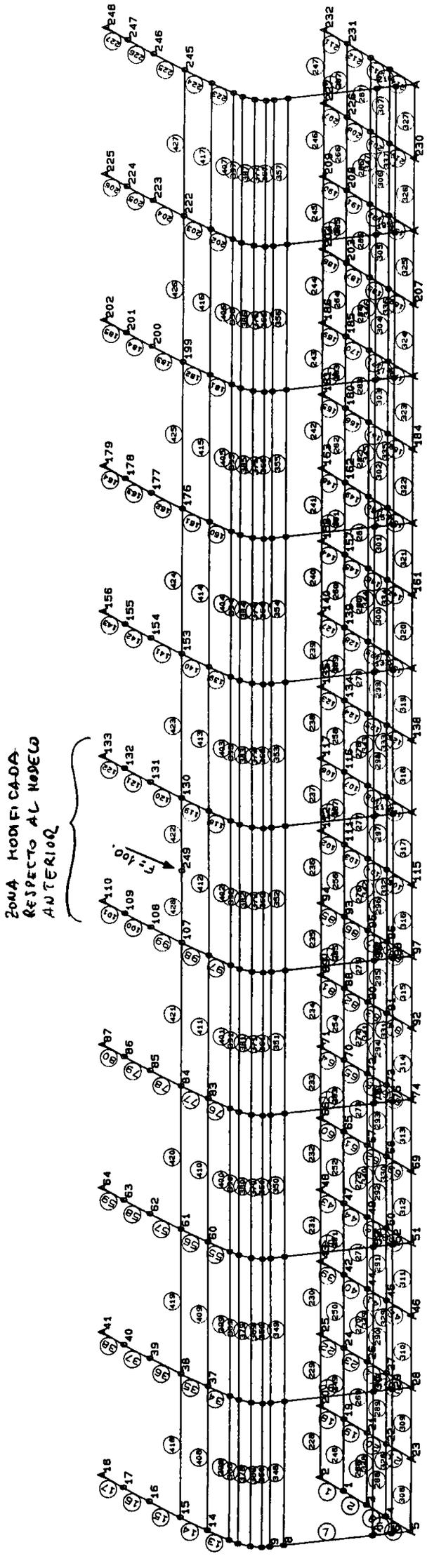
a) Para sección con "costilla": T-1, T-3 y T-5, siguientes

b) Para sección sin "costilla": T-2, T-4 y T-6, siguientes

Calculo de la constante de muelle
para estudio de secciones
transversales sin costilla

Esquema del modelo

str Modelo espacial (calculo de la constante de muelle)



Listado de datos

```
estr Modelo espacial (calculo de la constante de muelle)
nume de nudo  249
nume de barr  428
nume de hipo    1
nume de apoy   53
tipo port espa
list desp
coor de nudo
```

1	0.0000	0.0000	1.4964	
2	0.0000	0.0000	0.0000	desp z giro x y
3	0.0000	0.0000	3.0036	
4	0.0000	0.0000	4.2313	
5	0.0000	0.0000	5.8500	desp x y z
6	0.0000	0.9604	6.1049	
7	0.0000	1.9270	6.3615	
8	0.0000	6.4020	7.5493	
9	0.0000	7.1205	7.7400	
10	0.0000	7.5155	7.8207	
11	0.0000	7.9197	7.7191	
12	0.0000	8.2309	7.4052	
13	0.0000	8.3509	7.0008	
14	0.0000	8.5831	5.9339	
15	0.0000	8.8192	4.5537	
16	0.0000	9.0225	2.8511	
17	0.0000	9.1228	1.3470	
18	0.0000	9.1571	0.0000	desp z giro x y
19	3.0000	0.0000	1.4964	
20	3.0000	0.0000	0.0000	desp z giro x y
21	3.0000	0.0000	3.0036	
22	3.0000	0.0000	4.2313	
23	3.0000	0.0000	5.8500	desp y
24	6.0000	0.0000	1.4964	
25	6.0000	0.0000	0.0000	desp z giro x y
26	6.0000	0.0000	3.0036	
27	6.0000	0.0000	4.2313	
28	6.0000	0.0000	5.8500	desp y
29	6.0000	0.9604	6.1049	
30	6.0000	1.9270	6.3615	
31	6.0000	6.4020	7.5493	
32	6.0000	7.1205	7.7400	
33	6.0000	7.5155	7.8207	
34	6.0000	7.9197	7.7191	
35	6.0000	8.2309	7.4052	
36	6.0000	8.3509	7.0008	
37	6.0000	8.5831	5.9339	
38	6.0000	8.8192	4.5537	
39	6.0000	9.0225	2.8511	
40	6.0000	9.1228	1.3470	
41	6.0000	9.1571	0.0000	desp z giro x y
42	9.0000	0.0000	1.4964	
43	9.0000	0.0000	0.0000	desp z giro x y
44	9.0000	0.0000	3.0036	
45	9.0000	0.0000	4.2313	
46	9.0000	0.0000	5.8500	desp y
47	12.0000	0.0000	1.4964	
48	12.0000	0.0000	0.0000	desp z giro x y
49	12.0000	0.0000	3.0036	
50	12.0000	0.0000	4.2313	

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          2 1.1019 0.5071 0.7465 0.0590 0.3222 0.0760
          3 0.9484 0.4192 0.6876 0.0473 0.2919 0.0384
          4 0.7636 0.2870 0.6463 0.0320 0.2628 0.0114
          5 2.4000 2.0339 2.0339 0.2194 2.8125 0.0819
          6 1.5000 1.2712 1.2712 0.0560 1.7578 0.0200
          7 0.8280 0.7017 0.7017 0.0291 0.2957 0.0110
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        81 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
        82 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
        83 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
        84 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
        85 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
        86 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
        87 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
        88 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
        89 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
        90 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
        91 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
 92 a   98 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
 99 a  101 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       102 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       103 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       104 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       105 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
```

```
       106 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       107 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       108 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       109 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       110 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       111 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       112 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
113 a 119 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
120 a 122 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       123 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       124 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       125 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       126 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       127 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       128 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       129 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       130 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       131 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       132 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       133 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
134 a 140 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
141 a 143 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       144 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       145 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       146 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       147 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       148 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       149 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       150 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       151 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       152 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       153 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       154 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
155 a 161 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
162 a 164 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       165 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       166 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       167 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       168 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       169 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       170 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       171 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       172 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       173 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       174 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       175 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
176 a 182 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
183 a 185 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       186 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       187 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       188 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       189 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       190 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       191 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       192 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       193 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       194 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       195 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       196 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
197 a 203 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
204 a 206 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
       207 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       208 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       209 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       210 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       211 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
       212 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
       213 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
       214 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
       215 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
       216 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
       217 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
218 a 224 1.5000 1.2712 1.2712 0.0560 1.7578 0.0200
225 a 227 0.3800 0.3220 0.3220 0.0149 0.0286 0.0051
228 a 247 0.3283 0.2788 0.2788 0.0073 0.0123 0.0066
248 a 267 0.6435 0.5453 0.5453 0.0174 0.1097 0.0109
268 a 287 0.6336 0.5369 0.5369 0.0165 0.1095 0.0102
288 a 307 0.5904 0.5003 0.5003 0.0136 0.1020 0.0083
308 a 327 1.0387 0.7322 0.7322 0.0383 0.1602 0.0536
328 a 337 0.4838 0.4100 0.4100 0.0080 0.0399 0.0109 beta  14.889
338 a 347 0.3600 0.3051 0.3051 0.0069 0.0243 0.0048 beta  14.889
348 a 357 0.3200 0.2712 0.2712 0.0059 0.0171 0.0043 beta  14.889
358 a 367 0.2305 0.1953 0.1953 0.0036 0.0064 0.0031 beta  14.889
368 a 377 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta   0.985
378 a 387 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 330.790
388 a 397 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 298.719
398 a 407 0.3000 0.2542 0.2542 0.0054 0.0141 0.0040 beta 283.041
408 a 417 0.4960 0.4203 0.4203 0.0106 0.0636 0.0066 beta 281.010
418 a 428 0.2800 0.2373 0.2373 0.0072 0.0114 0.0037 beta 278.500
tama de nudo
  4 0.  0.255
 21 0.  0.255
 25 0.  0.255
 42 0.  0.255
 46 0.  0.255
 63 0.  0.255
 67 0.  0.255
 84 0.  0.255
 88 0.  0.255
105 0.  0.255
109 0.  0.255
126 0.  0.255
130 0.  0.255
147 0.  0.255
151 0.  0.255
168 0.  0.255
172 0.  0.255
189 0.  0.255
193 0.  0.255
210 0.  0.255
214 0.  0.255
cons de mate
     1 3000000. 1250000. 2.5
hipo 1 Fuerza 100.0
carg en nudo
249 fuer z 100.00
```

Listado de resultados

estr Modelo espacial (calculo de la constante de muelle)
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hipo 1 Fuerza 100.0
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DESPLAZAMIENTOS DE LOS NUDOS LIBRES

NUDO	DESP. X	DESP. Y	DESP. Z	GIRO X	GIRO Y	GIRO Z
1	0.000001	-0.000004	0.000000	0.000000	0.000000	0.000002
3	0.000001	-0.000004	0.000000	0.000000	0.000000	0.000002
4	0.000001	-0.000003	0.000000	-0.000001	0.000000	0.000002
6	-0.000003	0.000001	-0.000003	-0.000003	-0.000001	0.000002
7	-0.000005	0.000002	-0.000007	-0.000005	-0.000003	0.000002
8	-0.000017	0.000006	-0.000024	0.000003	-0.000012	-0.000002
9	-0.000018	0.000006	-0.000021	0.000006	-0.000015	-0.000003
10	-0.000018	0.000005	-0.000018	0.000007	-0.000017	-0.000003
11	-0.000015	0.000006	-0.000015	0.000008	-0.000018	-0.000003
12	-0.000008	0.000009	-0.000012	0.000009	-0.000018	-0.000003
13	0.000000	0.000013	-0.000011	0.000010	-0.000018	-0.000005
14	0.000020	0.000024	-0.000008	0.000011	-0.000017	-0.000009
15	0.000046	0.000040	-0.000006	0.000012	-0.000016	-0.000011
16	0.000071	0.000063	-0.000002	0.000013	-0.000010	-0.000014
17	0.000083	0.000079	-0.000001	0.000007	-0.000005	-0.000015
19	0.000001	0.000003	0.000000	0.000000	0.000000	0.000002
21	0.000001	0.000003	0.000000	0.000000	0.000000	0.000002
22	0.000000	0.000002	0.000000	0.000001	0.000000	0.000001
24	0.000001	0.000012	0.000000	0.000001	0.000000	0.000003
26	0.000001	0.000010	0.000000	0.000001	0.000000	0.000003
27	0.000001	0.000008	0.000000	0.000002	0.000000	0.000003
29	-0.000002	-0.000002	0.000007	0.000007	-0.000002	0.000002
30	-0.000005	-0.000004	0.000013	0.000007	-0.000004	0.000001
31	-0.000018	-0.000006	0.000023	-0.000006	-0.000013	-0.000002
32	-0.000020	-0.000005	0.000018	-0.000007	-0.000016	-0.000003
33	-0.000020	-0.000004	0.000015	-0.000008	-0.000019	-0.000003
34	-0.000017	-0.000005	0.000012	-0.000009	-0.000020	-0.000003
35	-0.000009	-0.000008	0.000009	-0.000009	-0.000020	-0.000004
36	-0.000001	-0.000012	0.000008	-0.000010	-0.000019	-0.000007
37	0.000021	-0.000023	0.000006	-0.000011	-0.000017	-0.000013
38	0.000048	-0.000040	0.000003	-0.000012	-0.000017	-0.000017
39	0.000075	-0.000056	0.000001	-0.000008	-0.000010	-0.000017
40	0.000088	-0.000065	0.000000	-0.000004	-0.000005	-0.000017
42	0.000001	0.000024	0.000000	0.000001	0.000000	0.000005
44	0.000001	0.000021	0.000000	0.000003	0.000000	0.000004
45	0.000001	0.000015	0.000000	0.000005	0.000000	0.000003
47	0.000001	0.000040	0.000000	0.000002	0.000000	0.000006

49	0.000001	0.000036	0.000000	0.000004	0.000000	0.000005
50	0.000001	0.000028	0.000000	0.000008	0.000000	0.000004
52	-0.000002	-0.000007	0.000025	0.000026	-0.000003	0.000002
53	-0.000004	-0.000014	0.000052	0.000029	-0.000008	0.000001
54	-0.000021	-0.000030	0.000108	-0.000023	-0.000021	-0.000002
55	-0.000024	-0.000024	0.000088	-0.000032	-0.000023	-0.000003
56	-0.000025	-0.000022	0.000074	-0.000037	-0.000026	-0.000003
57	-0.000021	-0.000026	0.000058	-0.000043	-0.000025	-0.000003
58	-0.000012	-0.000040	0.000044	-0.000048	-0.000023	-0.000006
59	-0.000002	-0.000060	0.000038	-0.000052	-0.000021	-0.000012
60	0.000024	-0.000119	0.000025	-0.000057	-0.000018	-0.000026
61	0.000055	-0.000199	0.000011	-0.000058	-0.000017	-0.000034
62	0.000085	-0.000277	0.000002	-0.000034	-0.000010	-0.000034
63	0.000100	-0.000315	0.000000	-0.000016	-0.000005	-0.000034
65	0.000001	0.000061	0.000000	0.000003	0.000000	0.000007
67	0.000001	0.000053	0.000000	0.000007	0.000000	0.000007
68	0.000001	0.000040	0.000000	0.000014	0.000000	0.000005
70	0.000001	0.000085	0.000000	0.000003	0.000000	0.000007
72	0.000001	0.000076	0.000000	0.000008	0.000000	0.000006
73	0.000001	0.000061	0.000000	0.000017	0.000000	0.000005
75	0.000000	-0.000015	0.000056	0.000060	-0.000004	0.000001
76	-0.000002	-0.000032	0.000119	0.000068	-0.000011	-0.000001
77	-0.000023	-0.000079	0.000294	-0.000049	-0.000054	-0.000006
78	-0.000029	-0.000068	0.000251	-0.000071	-0.000046	-0.000003
79	-0.000032	-0.000061	0.000220	-0.000083	-0.000038	-0.000002
80	-0.000028	-0.000071	0.000184	-0.000095	-0.000032	-0.000003
81	-0.000018	-0.000102	0.000152	-0.000106	-0.000029	-0.000006
82	-0.000006	-0.000147	0.000139	-0.000115	-0.000029	-0.000009
83	0.000026	-0.000281	0.000109	-0.000135	-0.000027	-0.000016
84	0.000067	-0.000480	0.000075	-0.000149	-0.000024	-0.000036
85	0.000107	-0.000774	0.000031	-0.000171	-0.000015	-0.000036
86	0.000127	-0.000987	0.000009	-0.000100	-0.000007	-0.000037
88	0.000001	0.000105	0.000000	0.000005	0.000000	0.000006
90	0.000001	0.000091	0.000000	0.000013	0.000000	0.000006
91	0.000001	0.000068	0.000000	0.000024	0.000000	0.000004
93	0.000001	0.000121	0.000000	0.000004	0.000000	0.000003
95	0.000001	0.000110	0.000001	0.000011	0.000000	0.000003
96	0.000001	0.000089	0.000001	0.000024	0.000000	0.000002
98	0.000001	-0.000022	0.000083	0.000088	-0.000002	-0.000001
99	0.000002	-0.000047	0.000180	0.000108	-0.000005	-0.000002
100	-0.000013	-0.000201	0.000769	0.000087	-0.000040	0.000004
101	-0.000024	-0.000215	0.000825	0.000069	-0.000031	0.000007
102	-0.000030	-0.000220	0.000851	0.000056	-0.000023	0.000009
103	-0.000033	-0.000216	0.000870	0.000039	-0.000034	0.000012
104	-0.000029	-0.000207	0.000879	0.000015	-0.000049	0.000027
105	-0.000016	-0.000205	0.000880	-0.000011	-0.000052	0.000036
106	0.000019	-0.000257	0.000869	-0.000090	-0.000059	0.000060
107	0.000077	-0.000465	0.000834	-0.000217	-0.000084	0.000187
108	0.000155	-0.002390	0.000439	-0.001577	-0.000053	0.000185
109	0.000195	-0.004556	0.000150	-0.001095	-0.000025	0.000184
111	0.000001	0.000124	0.000000	0.000006	0.000000	0.000000
113	0.000001	0.000108	0.000000	0.000015	0.000000	0.000000
114	0.000001	0.000081	0.000000	0.000028	0.000000	0.000000
116	0.000000	0.000121	0.000000	0.000004	0.000000	-0.000003
118	0.000000	0.000109	0.000001	0.000011	0.000000	-0.000003
119	0.000000	0.000089	0.000001	0.000024	0.000000	-0.000002
121	0.000000	-0.000022	0.000083	0.000088	0.000002	0.000001
122	-0.000001	-0.000047	0.000180	0.000108	0.000005	0.000002

123	0.000013	-0.000200	0.000768	0.000087	0.000040	-0.000004
124	0.000024	-0.000215	0.000825	0.000069	0.000030	-0.00000
125	0.000030	-0.000220	0.000850	0.000056	0.000022	-0.000009
126	0.000033	-0.000215	0.000870	0.000039	0.000032	-0.000012
127	0.000030	-0.000207	0.000879	0.000016	0.000047	-0.000027
128	0.000017	-0.000205	0.000879	-0.000010	0.000050	-0.000036
129	-0.000016	-0.000257	0.000869	-0.000090	0.000057	-0.000060
130	-0.000070	-0.000465	0.000834	-0.000217	0.000082	-0.000187
131	-0.000146	-0.002389	0.000439	-0.001577	0.000051	-0.000185
132	-0.000184	-0.004555	0.000150	-0.001095	0.000024	-0.000185
134	0.000000	0.000105	0.000000	0.000005	0.000000	-0.000006
136	0.000000	0.000091	0.000000	0.000013	0.000000	-0.000006
137	0.000000	0.000068	0.000000	0.000023	0.000000	-0.000004
139	0.000000	0.000085	0.000000	0.000003	0.000000	-0.000007
141	0.000000	0.000076	0.000000	0.000008	0.000000	-0.000006
142	0.000000	0.000061	0.000000	0.000017	0.000000	-0.000004
144	0.000001	-0.000015	0.000056	0.000060	0.000004	0.000000
145	0.000002	-0.000032	0.000119	0.000068	0.000010	0.000001
146	0.000022	-0.000079	0.000293	-0.000049	0.000053	0.000005
147	0.000029	-0.000068	0.000250	-0.000071	0.000045	0.000003
148	0.000032	-0.000061	0.000220	-0.000083	0.000037	0.000001
149	0.000028	-0.000070	0.000183	-0.000095	0.000030	0.000003
150	0.000018	-0.000102	0.000152	-0.000106	0.000027	0.000006
151	0.000007	-0.000147	0.000139	-0.000115	0.000026	0.000009
152	-0.000022	-0.000281	0.000109	-0.000135	0.000025	0.000015
153	-0.000060	-0.000479	0.000075	-0.000149	0.000022	0.000036
154	-0.000097	-0.000773	0.000031	-0.000171	0.000013	0.000036
155	-0.000115	-0.000985	0.000009	-0.000100	0.000006	0.000036
157	0.000000	0.000061	0.000000	0.000003	0.000000	-0.000007
159	0.000000	0.000053	0.000000	0.000007	0.000000	-0.000007
160	0.000000	0.000040	0.000000	0.000014	0.000000	-0.000005
162	0.000000	0.000041	0.000000	0.000002	0.000000	-0.000006
164	0.000000	0.000036	0.000000	0.000004	0.000000	-0.000005
165	0.000000	0.000029	0.000000	0.000008	0.000000	-0.000004
167	0.000003	-0.000007	0.000025	0.000027	0.000003	-0.000001
168	0.000005	-0.000014	0.000052	0.000029	0.000007	0.000000
169	0.000020	-0.000030	0.000108	-0.000024	0.000020	0.000002
170	0.000023	-0.000025	0.000088	-0.000032	0.000022	0.000003
171	0.000024	-0.000022	0.000075	-0.000037	0.000023	0.000003
172	0.000020	-0.000026	0.000058	-0.000043	0.000023	0.000003
173	0.000012	-0.000040	0.000044	-0.000048	0.000020	0.000006
174	0.000003	-0.000061	0.000038	-0.000052	0.000018	0.000012
175	-0.000019	-0.000120	0.000025	-0.000058	0.000015	0.000025
176	-0.000047	-0.000201	0.000011	-0.000058	0.000014	0.000033
177	-0.000073	-0.000279	0.000002	-0.000034	0.000009	0.000033
178	-0.000086	-0.000316	0.000000	-0.000016	0.000004	0.000033
180	0.000000	0.000025	0.000000	0.000001	0.000000	-0.000004
182	0.000001	0.000021	0.000000	0.000003	0.000000	-0.000004
183	0.000001	0.000016	0.000000	0.000006	0.000000	-0.000003
185	0.000001	0.000013	0.000000	0.000001	0.000000	-0.000003
187	0.000001	0.000012	0.000000	0.000001	0.000000	-0.000003
188	0.000001	0.000009	0.000000	0.000003	0.000000	-0.000002
190	0.000003	-0.000002	0.000008	0.000008	0.000002	-0.000002
191	0.000005	-0.000004	0.000016	0.000008	0.000004	-0.000001
192	0.000016	-0.000008	0.000029	-0.000007	0.000011	0.000001
193	0.000017	-0.000006	0.000023	-0.000009	0.000014	0.000002
194	0.000018	-0.000005	0.000019	-0.000010	0.000016	0.000003
195	0.000015	-0.000007	0.000015	-0.000011	0.000017	0.000002

196	0.000009	-0.000010	0.000011	-0.000012	0.000016	0.000003
197	0.000002	-0.000015	0.000010	-0.000013	0.000015	0.000006
198	-0.000016	-0.000030	0.000007	-0.000015	0.000014	0.000011
199	-0.000038	-0.000051	0.000003	-0.000015	0.000014	0.000014
200	-0.000060	-0.000072	0.000001	-0.000009	0.000008	0.000014
201	-0.000071	-0.000082	0.000000	-0.000004	0.000004	0.000014
203	0.000001	0.000006	0.000000	0.000000	0.000000	-0.000002
205	0.000001	0.000005	0.000000	0.000001	0.000000	-0.000002
206	0.000001	0.000004	0.000000	0.000001	0.000000	-0.000001
208	0.000001	0.000001	0.000000	0.000000	0.000000	-0.000001
210	0.000001	0.000001	0.000000	0.000000	0.000000	-0.000001
211	0.000001	0.000001	0.000000	0.000000	0.000000	-0.000001
213	0.000003	0.000000	0.000000	0.000000	0.000001	-0.000002
214	0.000005	0.000000	0.000000	0.000000	0.000002	-0.000001
215	0.000013	0.000001	-0.000002	0.000000	0.000006	0.000001
216	0.000014	0.000000	-0.000002	0.000000	0.000009	0.000002
217	0.000014	0.000000	-0.000001	0.000000	0.000012	0.000002
218	0.000012	0.000001	-0.000001	0.000001	0.000014	0.000002
219	0.000007	0.000001	-0.000001	0.000001	0.000014	0.000002
220	0.000001	0.000001	-0.000001	0.000001	0.000013	0.000003
221	-0.000014	0.000002	-0.000001	0.000001	0.000013	0.000006
222	-0.000033	0.000004	0.000000	0.000001	0.000013	0.000007
223	-0.000052	0.000005	0.000000	0.000001	0.000008	0.000007
224	-0.000061	0.000007	0.000000	0.000001	0.000004	0.000007
226	0.000001	-0.000002	0.000000	0.000000	0.000000	-0.000001
228	0.000001	-0.000002	0.000000	0.000000	0.000000	-0.000001
229	0.000001	-0.000002	0.000000	-0.000001	0.000000	0.000000
231	0.000001	-0.000006	0.000000	0.000000	0.000000	-0.000001
233	0.000001	-0.000005	0.000000	-0.000001	0.000000	-0.000001
234	0.000001	-0.000004	0.000000	-0.000001	0.000000	-0.000001
236	0.000003	0.000001	-0.000004	-0.000004	0.000001	-0.000002
237	0.000005	0.000002	-0.000008	-0.000004	0.000001	-0.000001
238	0.000012	0.000005	-0.000021	0.000003	0.000007	0.000001
239	0.000013	0.000005	-0.000018	0.000005	0.000010	0.000002
240	0.000013	0.000004	-0.000016	0.000006	0.000012	0.000002
241	0.000011	0.000005	-0.000013	0.000007	0.000013	0.000002
242	0.000007	0.000007	-0.000010	0.000008	0.000013	0.000002
243	0.000001	0.000011	-0.000009	0.000009	0.000012	0.000003
244	-0.000013	0.000021	-0.000007	0.000010	0.000012	0.000005
245	-0.000031	0.000036	-0.000005	0.000011	0.000012	0.000006
246	-0.000049	0.000055	-0.000002	0.000011	0.000007	0.000008
247	-0.000057	0.000069	0.000000	0.000006	0.000003	0.000009
249	0.000003	-0.001185	0.011450	-0.000217	0.000000	0.000000

28	0.000000	0.000000	0.000000	0.000007	0.000000	0.000002
41	0.000092	-0.000068	0.000000	0.000000	0.000000	-0.000017
43	0.000001	0.000025	0.000000	0.000000	0.000000	0.000005
46	0.000000	0.000000	0.000000	0.000012	0.000000	-0.000001
48	0.000001	0.000042	0.000000	0.000000	0.000000	0.000006
51	0.000001	0.000000	0.000000	0.000025	0.000000	0.000002
64	0.000104	-0.000325	0.000000	0.000000	0.000000	-0.000034
66	0.000001	0.000063	0.000000	0.000000	0.000000	0.000008
69	0.000001	0.000000	0.000000	0.000031	0.000000	0.000000
71	0.000001	0.000087	0.000000	0.000000	0.000000	0.000007
74	0.000001	0.000000	0.000001	0.000056	0.000000	0.000002
87	0.000133	-0.001057	0.000000	0.000000	0.000000	-0.000037
89	0.000001	0.000109	0.000000	0.000000	0.000000	0.000006
92	0.000001	0.000000	0.000000	0.000053	0.000000	0.000000
94	0.000001	0.000124	0.000000	0.000000	0.000000	0.000003
97	0.000001	0.000000	0.000001	0.000082	0.000000	0.000000
110	0.000205	-0.005338	0.000000	0.000000	0.000000	0.000184
112	0.000001	0.000129	0.000000	0.000000	0.000000	0.000000
115	0.000001	0.000000	0.000001	0.000062	0.000000	0.000000
117	0.000000	0.000124	0.000000	0.000000	0.000000	-0.000003
120	0.000000	0.000000	0.000001	0.000082	0.000000	0.000001
133	-0.000194	-0.005337	0.000000	0.000000	0.000000	-0.000185
135	0.000000	0.000108	0.000000	0.000000	0.000000	-0.000006
138	0.000000	0.000000	0.000000	0.000053	0.000000	0.000000
140	0.000000	0.000087	0.000000	0.000000	0.000000	-0.000007
143	0.000000	0.000000	0.000001	0.000056	0.000000	-0.000001
156	-0.000121	-0.001055	0.000000	0.000000	0.000000	0.000036
158	0.000000	0.000064	0.000000	0.000000	0.000000	-0.000008
161	0.000000	0.000000	0.000000	0.000031	0.000000	0.000000
163	0.000000	0.000042	0.000000	0.000000	0.000000	-0.000006
166	0.000001	0.000000	0.000000	0.000025	0.000000	-0.000002
179	-0.000090	-0.000326	0.000000	0.000000	0.000000	0.000033
181	0.000000	0.000026	0.000000	0.000000	0.000000	-0.000005
184	0.000001	0.000000	0.000000	0.000012	0.000000	0.000001
186	0.000001	0.000014	0.000000	0.000000	0.000000	-0.000003
189	0.000001	0.000000	0.000000	0.000008	0.000000	-0.000002
202	-0.000074	-0.000085	0.000000	0.000000	0.000000	0.000015
204	0.000001	0.000006	0.000000	0.000000	0.000000	-0.000002
207	0.000001	0.000000	0.000000	0.000003	0.000000	0.000001
209	0.000001	0.000001	0.000000	0.000000	0.000000	-0.000001
212	0.000001	0.000000	0.000000	0.000000	0.000000	-0.000002
225	-0.000064	0.000007	0.000000	0.000000	0.000000	0.000007
227	0.000001	-0.000003	0.000000	0.000000	0.000000	-0.000001
230	0.000001	0.000000	0.000000	-0.000001	0.000000	0.000001
232	0.000001	-0.000006	0.000000	0.000000	0.000000	-0.000001
235	0.000002	0.000000	0.000000	-0.000004	0.000000	-0.000002
248	-0.000060	0.000073	0.000000	0.000000	0.000000	0.000009

DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	DESP. Z	GIRO X	GIRO Y	GIRO Z
2	0.000001	-0.000004	0.000000	0.000000	0.000000	0.000002
5	0.000000	0.000000	0.000000	-0.000003	0.000000	0.000002
18	0.000087	0.000084	0.000000	0.000000	0.000000	-0.000016
20	0.000001	0.000003	0.000000	0.000000	0.000000	0.000002
23	0.000000	0.000000	0.000000	0.000001	0.000000	-0.000001
25	0.000001	0.000012	0.000000	0.000000	0.000000	0.000003

CALCULO DE LA CONSTANTE DE MUELLE

$k \cdot \delta = F$

$\delta_2 = 0,01145$

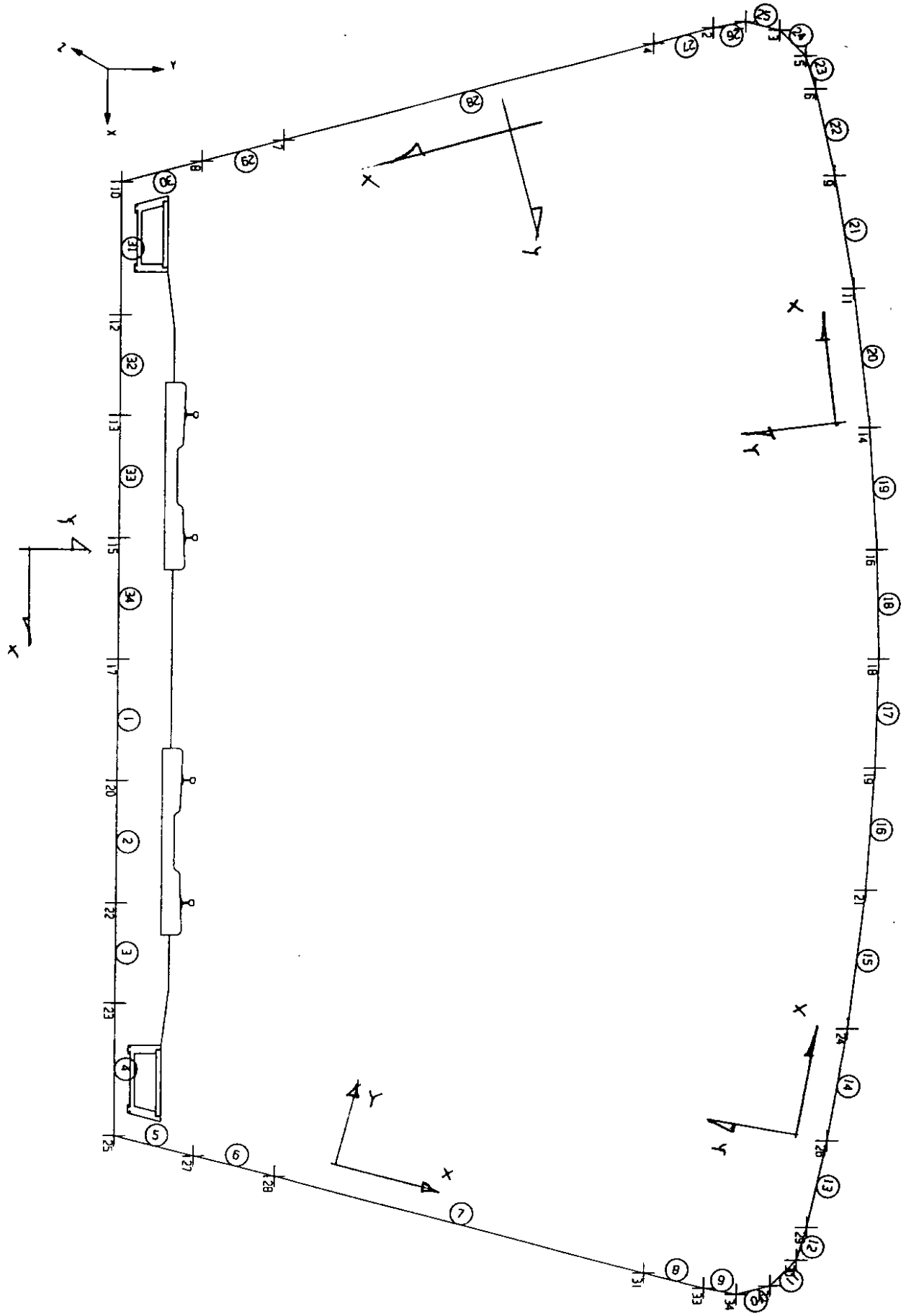
$k = 100.0 / 0,01145 = 8750$

$k = 8750$

MODELO DE BARRAS PLANO

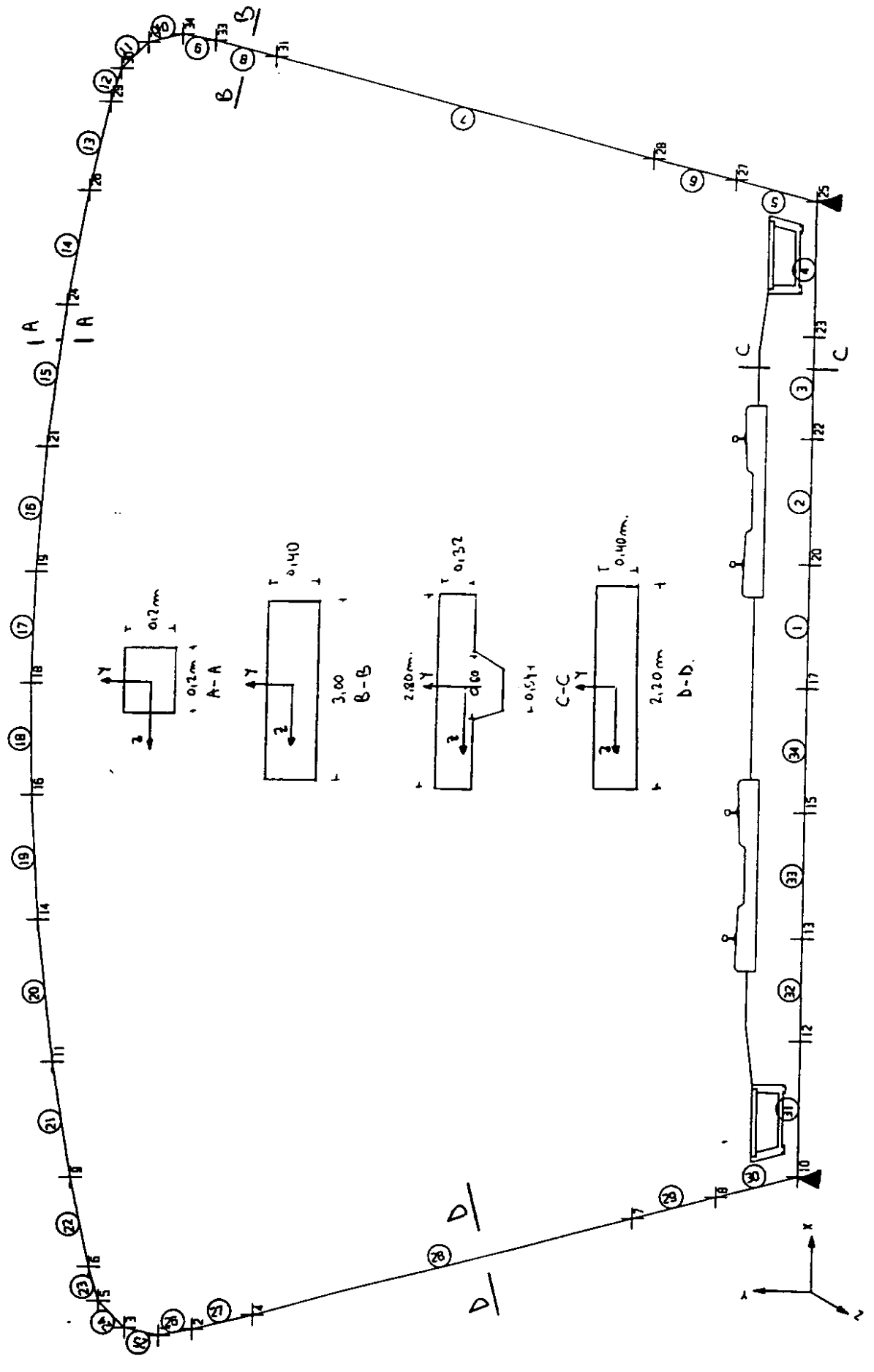
MODULO INTERMEDIO (entre aligeramientos)

Esquema del modelo

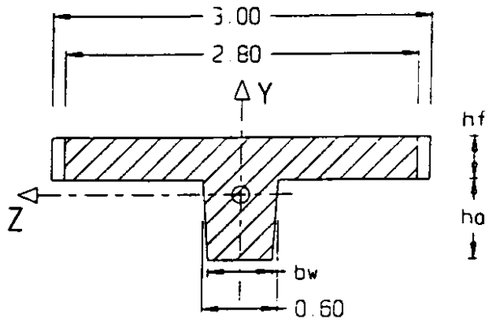


Caracteristicas de barras

MODULO INTERMEDIO (entre aligeramientos).



CARACTERISTICAS DE BARRAS

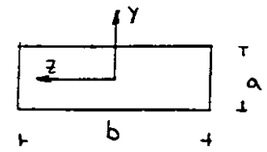


$$\begin{cases} AX = \text{Calculado con CADKEY} \\ AY = b_w (h_f + h_a) \\ AZ = 2{,}80 \times h_f \\ IX = \frac{1}{3}\left[h_f^3 \times 2{,}80 + b_w^3 \times h_a\right] \\ IY = \text{calculado con CADKEY} \\ IZ = \quad " \quad " \quad " \end{cases}$$

Secc.	Ax	AY	AZ	IX	IY	IZ
b_1	1,4624*	0,5592*	1,0562	0,0811	0,7004	0,1185*
b_2	1,3276*	0,5071*	0,9722.	0,0681	0,6444	0,0828*
b_3	1,1563*	0,4192*	0,8954	0,0544.	0,5921	0,0421*
b_4	0,9590*	0,2870*	0,8417	0,0379.	0,5533	0,0131*

b_1 = barras 1 y 34
b_2 = " 2 y 33
b_3 = " 3 y 32
b_4 = " 4 y 31

Barras 5 y 30



a = 0,64 m, b = 3,00

Ax = 1,92 m², Ay = 1,6271 m², Iz = 0,0655 m⁴

Barras 6 y 29, 8 a 14 y 21 a 27

a = 0,40 m, b = 3,00

Ax = 1,20 m², Ay = 1,0169 m², Iz = 0,0160 m⁴

Barras 7 y 28

a = 0,40 m, b = 2,20 m

Ax = 0,88 m², Ay = 0,7458, Iz = 0,0117 m⁴

Barras 15 a 20

a = 0,20 m, b = 0,20 m

Ax = 0,04 m², Ay = 0,0334 m², Iz = 0,0001 m⁴

Valores de las acciones

VALORES DE LAS ACCIONES.

Peso propio:

gravedad.

1 a 34 0. -1.

Carga muerta.

- Calzado + traviesas + carriles : 4,74 t/m/ circulación.

$P = 4{,}74 \times 2 = 9{,}48$ t/ml

Cargamos en barras 1, 2, 3, 32, 33 y 34.

$$q = \frac{9{,}48 \times 3{,}00}{2 \times 4{,}75} = 2{,}99 \text{ Tn/ml}$$

1 a 3	fuer y unif	- 2,99			
4	"	"	"	0.	0,5187
31	"	"	"	1,100	0.
32 a 34	"	"	"		

- Arqueta : $A = 0{,}16\ m^2$

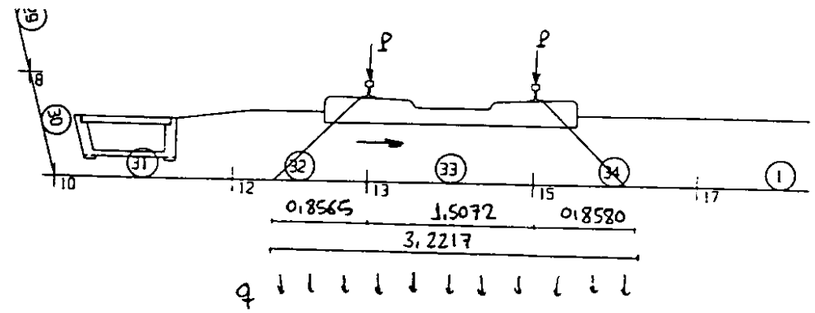
$q = 3{,}00 \times 0{,}160 / 0{,}25 = 2{,}12$ Tn/ml

4	fuer y unif	- 2,12	0,5187	1,3640	
31	"	"	"	0,255	1,100

VALORES DE LAS ACCIONES (Cont.)

S.C. TREN-A

Cargamos con cuatro cargas de 10 Tn. Una vez conocido el momento en el centro (en nudo 17) debido a estas cuatro cargas se iguala con el momento calculado en el momento espacial y se deduce cual es el verdadero valor de las cargas a considerar.



$$q = \frac{2 \times P}{3{,}2217} = \frac{2 \times 10{,}00}{3{,}2217} = 6{,}2079 \text{ Tn/ml.}$$

1	fuer y unif	- 6,2079		0,6399	0.
2	"	"	"		
3	"	"	"	0.	0,8580.
32	"	"	"	0,3712	0.
33	"	"	"		
34	"	"	"	0.	0,8580

(El momento del modelo espacial ellos incluido el coeficiente de impacto.).

S.C. UNIF. EN PASEOS (500 kg/m²)

0,50 × 3,00 = 1,50 Tn/ml

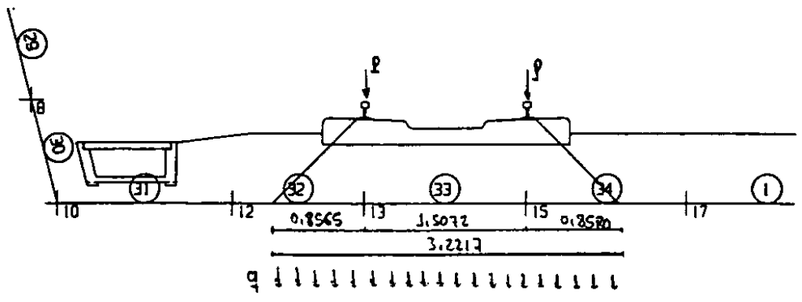
4	fuer y unif	-1,50	0,519.	1,369.
31	" "	"	0,255.	1,105.

S.C. TREN-B (12 Tn/ml vía).

Coeficiente de impacto : 1,45

Q = 1,45 × 12,00 × 3,00 = 52,20 Tn.

que equivale a 2P = 52,20 ; P = 26,10 Tn



$$q = \frac{2 \times P}{3,2217} = \frac{52,20}{3,2217} = 16,20 \text{ Tn/ml}$$

S.C. TREN-B (Cont)

1	fuer y unif	-16,20	0,6399	0.
2	" " "	"		
3	" " "	"	0.	0,8580
32	" " "	"	0,3712	0.
33	" " "	"		
34	" " "	"	0.	0,8580.

```
estr Seccion transversal (intermedia entre aligeramientos)
nume de nudo   34
nume de barr   34
nume de hipo    1
nume de apoy    2
tipo port plan
list todo
coor de nudo
      1     -7.8207      7.5155
      2     -7.7400      7.1205
      3     -7.7191      7.9197
      4     -7.5493      6.4020
      5     -7.4052      8.2309
      6     -7.0008      8.3509
      7     -6.3615      1.9270
      8     -6.1049      0.9604
      9     -5.9339      8.5831
     10     -5.8500      0.0000 desp x y
     11     -4.5537      8.8192
     12     -4.2313      0.0000
     13     -3.0036      0.0000
     14     -2.8511      9.0225
     15     -1.4964      0.0000
     16     -1.3470      9.1228
     17      0.0000      0.0000
     18      0.0000      9.1571
     19      1.3470      9.1228
     20      1.4964      0.0000
     21      2.8511      9.0225
     22      3.0036      0.0000
     23      4.2313      0.0000
     24      4.5537      8.8192
     25      5.8500      0.0000 desp y
     26      5.9339      8.5831
     27      6.1049      0.9604
     28      6.3615      1.9270
     29      7.0008      8.3509
     30      7.4052      8.2309
     31      7.5493      6.4020
     32      7.7191      7.9197
     33      7.7400      7.1205
     34      7.8207      7.5155
inci de barr
      1    17    20
      2    20    22
      3    22    23
      4    23    25
      5    25    27
      6    27    28
      7    28    31
      8    31    33
      9    33    34
     10    34    32
     11    32    30
     12    30    29
     13    29    26
     14    26    24
     15    24    21
     16    21    19
     17    19    18
     18    18    16
     19    16    14
     20    14    11
     21    11     9
     22     9     6
     23     6     5
     24     5     3
     25     3     1
     26     1     2
     27     2     4
     28     4     7
     29     7     8
     30     8    10
     31    10    12
     32    12    13
     33    13    15
     34    15    17
mate de barr
      1 a    34     1
prop de barr pris
            1 1.4624 0.5592 0.1185
            2 1.3276 0.5071 0.0828
            3 1.1563 0.4192 0.0421
            4 0.9590 0.2870 0.0131
            5 1.9200 1.6271 0.0655
            6 1.2000 1.0169 0.0160
            7 0.8800 0.7458 0.0117
        8 a 14 1.2000 1.0169 0.0160
       15 a 20 0.0400 0.0339 0.0001
       21 a 27 1.2000 1.0169 0.0160
           28 0.8800 0.7458 0.0117
           29 1.2000 1.0169 0.0160
           30 1.9200 1.6271 0.0655
           31 0.9590 0.2870 0.0131
           32 1.1563 0.4192 0.0421
           33 1.3276 0.5071 0.0828
           34 1.4624 0.5592 0.1185
      cons de mate
          1 3000000. 1250000. 2.5
      hipo Cargas unitarias de 10 Tn.
      carg en barr
       1 fuer y unif -6.2079 0.6399 0.
       2 fuer y unif -6.2079
       3 fuer y unif -6.2079 0. 0.8580
      32 fuer y unif -6.2079 0.3712 0.
      33 fuer y unif -6.2079
      34 fuer y unif -6.2079 0. 0.8580
      calc
 problema bien definido, empieza la ejecucion
```

estr Seccion transversal (intermedia entre aligeramientos)

hipo Cargas unitarias de 10 Tn.

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
1	17	-1.5729	-0.0026	-57.8244
1	20	1.5729	5.3197	55.5435
2	20	-1.5729	-5.3196	-55.5435
2	22	1.5729	14.6761	40.4747
3	22	-1.5729	-14.6761	-40.4747
3	23	1.5729	20.0025	18.2026
4	23	-1.5729	-20.0026	-18.2026
4	25	1.5729	20.0026	-14.1756
5	25	-0.4035	1.5203	14.1756
5	27	0.4035	-1.5203	-12.6649
6	27	-0.4036	1.5203	12.6649
6	28	0.4036	-1.5203	-11.1445
7	28	-0.4035	1.5203	11.1445
7	31	0.4035	-1.5203	-4.1056
8	31	-0.4035	1.5203	4.1056
8	33	0.4035	-1.5203	-2.9755
9	33	-0.3148	1.5410	2.9755
9	34	0.3148	-1.5410	-2.3542
10	34	0.3834	1.5255	2.3542
10	32	-0.3834	-1.5255	-1.7184
11	32	1.1172	1.1074	1.7184
11	30	-1.1172	-1.1074	-1.2289
12	30	1.5078	0.4474	1.2289
12	29	-1.5078	-0.4474	-1.0401
13	29	1.5369	0.3345	1.0401
13	26	-1.5369	-0.3345	-0.6749
14	26	1.5505	0.2652	0.6749
14	24	-1.5505	-0.2652	-0.3035
15	24	1.5618	0.1865	0.3035
15	21	-1.5618	-0.1865	0.0163
16	21	1.5694	0.1047	-0.0163
16	19	-1.5694	-0.1047	0.1740
17	19	1.5724	0.0400	-0.1740
17	18	-1.5724	-0.0400	0.2280
18	18	1.5724	-0.0400	-0.2280
18	16	-1.5724	0.0400	0.1740
19	16	1.5694	-0.1047	-0.1740
19	14	-1.5694	0.1047	0.0163
20	14	1.5618	-0.1865	-0.0163
20	11	-1.5618	0.1865	-0.3035
21	11	1.5504	-0.2652	0.3035
21	9	-1.5504	0.2652	-0.6748
22	9	1.5370	-0.3345	0.6748
22	6	-1.5370	0.3345	-1.0401
23	6	1.5078	-0.4474	1.0401
23	5	-1.5078	0.4474	-1.2288
24	5	1.1170	-1.1074	1.2288
24	3	-1.1170	1.1074	-1.7183
25	3	0.3837	-1.5255	1.7183
25	1	-0.3837	1.5255	-2.3541
26	1	-0.3149	-1.5411	2.3541
26	2	0.3149	1.5411	-2.9754
27	2	-0.4035	-1.5202	2.9754
27	4	0.4035	1.5202	-4.1056
28	4	-0.4035	-1.5203	4.1056
28	7	0.4035	1.5203	-11.1445
29	7	-0.4036	-1.5202	11.1445
29	8	0.4036	1.5202	-12.6649
30	8	-0.4035	-1.5203	12.6649
30	10	0.4035	1.5203	-14.1755
31	10	-1.5729	19.9974	14.1755
31	12	1.5729	-19.9974	18.1943
32	12	-1.5729	19.9974	-18.1943
32	13	1.5729	-14.6804	40.4681
33	13	-1.5729	14.6804	-40.4681
33	15	1.5729	-5.3238	55.5432
34	15	-1.5729	5.3237	-55.5432
34	17	1.5729	0.0026	57.8244

CARGAS APLICADAS EN LOS NUDOS LIBRES

NUDO	FUER. X	FUER. Y	MOM. Z
1	0.0000	0.0003	0.0000
2	0.0001	0.0000	0.0000
3	0.0000	-0.0002	0.0000
4	-0.0001	0.0000	0.0000
5	-0.0002	0.0000	0.0000
6	0.0002	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	-0.0001	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0001	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000

23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
26	-0.0001	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	-0.0001	0.0000	0.0000
30	0.0003	-0.0001	0.0000
31	0.0000	0.0000	0.0000
32	-0.0001	0.0002	0.0000
33	0.0001	0.0000	0.0000
34	-0.0002	-0.0001	0.0000

REACCIONES EN LOS APOYOS

NUDO	FUER. X	FUER. Y	MOM. Z
10	0.0000	19.9974	0.0000
25	0.0000	20.0026	0.0000

DESPLAZAMIENTOS DE LOS NUDOS LIBRES

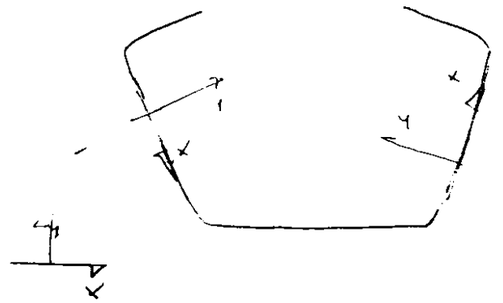
NUDO	DESP. X	DESP. Y	GIRO Z
1	0.0011067	0.0003063	0.0004851
2	0.0012946	0.0003446	0.0004627
3	0.0009064	0.0003566	0.0005028
4	0.0016093	0.0004281	0.0004079
5	0.0007473	0.0005168	0.0005163
6	0.0006845	0.0007278	0.0005263
7	0.0015378	0.0004084	-0.0005979
8	0.0008437	0.0002240	-0.0008460
9	0.0005594	0.0013007	0.0005458
11	0.0004280	0.0020653	0.0005601
12	0.0000009	-0.0016823	-0.0008310
13	0.0000014	-0.0025888	-0.0005400
14	0.0001767	0.0039818	0.0013809
15	0.0000020	-0.0032131	-0.0002416
16	0.0000356	0.0058010	0.0009027
17	0.0000026	-0.0033981	0.0000000
18	0.0000017	0.0064369	-0.0000001
19	-0.0000321	0.0058008	-0.0009029
20	0.0000031	-0.0032132	0.0002415
21	-0.0001732	0.0039815	-0.0013809
22	0.0000037	-0.0025890	0.0005400
23	0.0000043	-0.0016825	0.0008311
24	-0.0004245	0.0020651	-0.0005599
26	-0.0005559	0.0013007	-0.0005456
27	-0.0008387	0.0002240	0.0008461
28	-0.0015330	0.0004085	0.0005981
29	-0.0006810	0.0007280	-0.0005261
30	-0.0007437	0.0005172	-0.0005162
31	-0.0016053	0.0004284	-0.0004077
32	-0.0009028	0.0003570	-0.0005026
33	-0.0012908	0.0003450	-0.0004625
34	-0.0011030	0.0003067	-0.0004849

DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	GIRO Z
10	0.0000000	0.0000000	-0.0009138
25	0.0000051	0.0000000	0.0009140

SOBRECARGA DE VIENTO

- Cubiertas una presión lateral $q = 200\ kp/m^2$
- En una cubierta de $3\ m$ $\quad p = 0.2 \cdot 3 = 0.6\ T/m$



Viento x+ $\quad$ 21 a 30 fr y mf +0.6

Viento x- $\quad$ 5 a 14 fr y mf +0.6

Calculo del coeficiente de Impacto

CALCULO DEL COEFICIENTE DE IMPACTO

- Se han en el cálculo general ya se han tenido en cuenta, el desenhormement de los elements sandwich precisa de confiament de impact particular.

- Debido a la existencia de diferents criteris en la Normativa vigente, así como la posibilidad de incisa de un tren de alta velocidad obliga a corregir los diferents criteris existents.

- Norma Española (valida per $V \leq 200$ km/h).

. $L \geq Q_1$ $\qquad L = 11.70$

$$I = \frac{114\sqrt{L}}{3.10 - 1.76\sqrt{L} + L} = \frac{114\sqrt{11.70}}{3.10 - 1.76\sqrt{11.70} + 11.70} = 44.41\%$$

$I = 1.44$

. Expressions en funció del període de vibracions

$$\mu = \frac{V \cdot T}{2L} \qquad I = 65 \frac{\mu}{1 - \mu + \mu^2}$$

. Pont amb coixinets $\qquad T_1 = 0.118$ s.

. Pont sin coixinets $\qquad T_2 = 0.155$ s. (Segons calculs fets anteriorment)

Si $V = 300$ km/h $\equiv 83.33$ m/s.

$$\mu_1 = \frac{83.33 \cdot 0.118}{2 \cdot 11.70} = 0.42 \qquad \mu_2 = \frac{83.33 \cdot 0.155}{2 \cdot 11.70} = 0.55$$

$$I_1 = 65 \frac{0.42}{1 - 0.42 + 0.42^2} = 36.09$$

$$I_2 = 65 \frac{0.55}{1 - 0.55 + 0.55^2} = 47.51$$

. Si $v = 200\ Km/h \equiv 72\ m/s$

$$\mu_1 = \frac{72 \cdot 0.118}{2 \cdot 11.70} = 0.36 \qquad \mu_2 = \frac{72\ 0.155}{2 \cdot 11\ 70} = 0.48$$

$$I_1 = 65 \frac{0.36}{1 - 0.36 + 0.36^2} = 30.41 \qquad I_2 = 65 \frac{0.48}{1 - 0.48 + 0.48^2} = 41.58$$

- Recomendaciones UIC

Líneas con un mantenimiento de vía de alta calidad

. Impactos Puntuales ϕ_2

. Efecto acumulado ϕ_1

$$\phi_1 = \frac{0.96}{\sqrt{L_\phi - 0.2}} + 0.88 \qquad \phi_2 = \frac{1.44}{\sqrt{L_\phi - 0.2}} + 0.82$$

La ley característica L depende del elemento característico a considerar.

En vigas Isostáticas $L_\phi = 2L$ (UIC. ver. Ejercicio 1)

$L_\phi = 2 \cdot 11.70 = 23.40\ m$

$$\phi_1 = \frac{0.96}{\sqrt{23.4 - 0.2}} + 0.88 = 1.09$$

$$\phi_2 = \frac{1.44}{\sqrt{23.4 - 0.2}} + 0.82 = 1.13$$

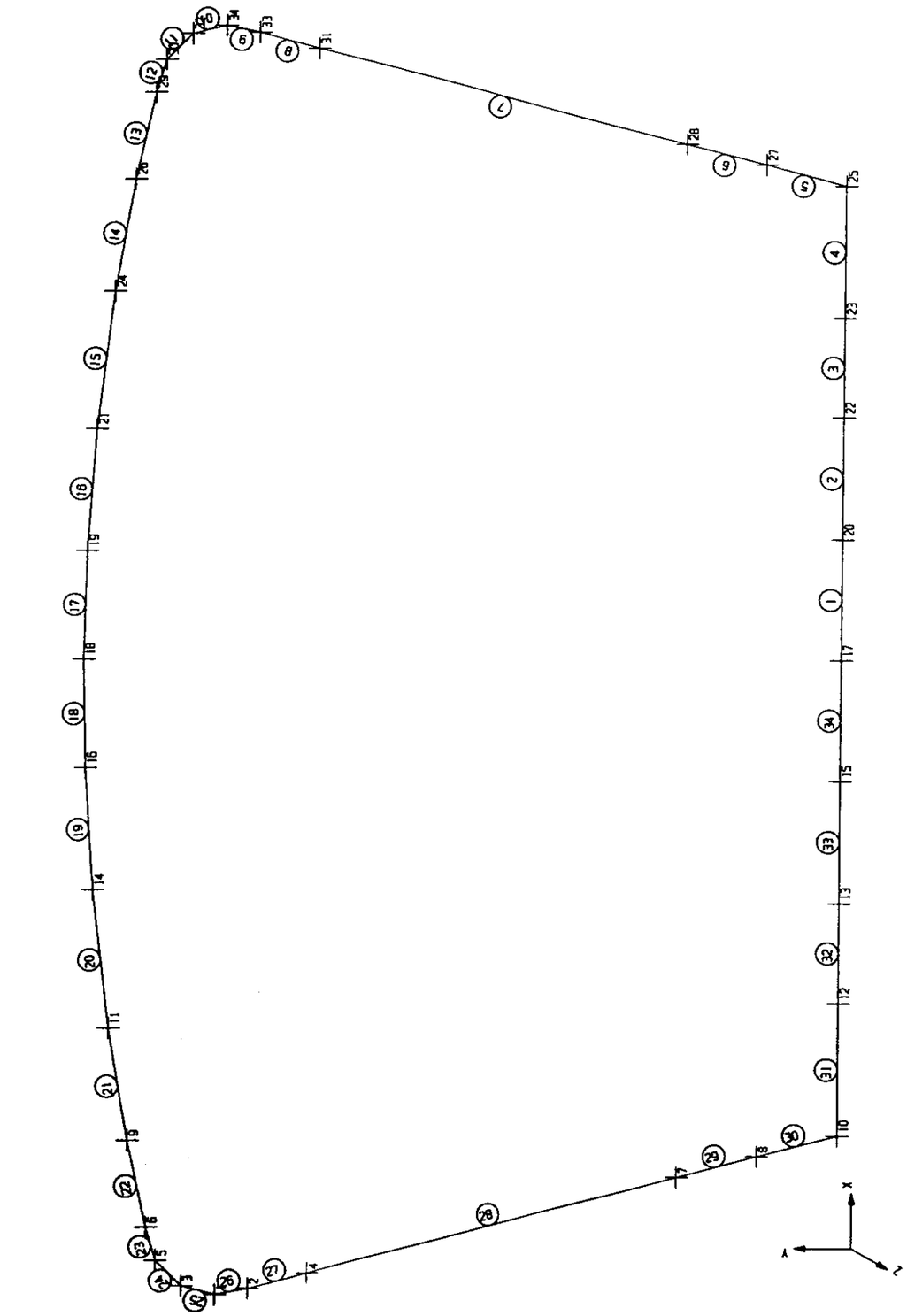
- Conclusiones respecto al coeficiente de impacto a considerar

Para ver a continuación los elementos tratados en los apartados correspondientes a la Norma ~~ENV~~ se emplea el coeficiente de impacto correspondiente a la misma norma

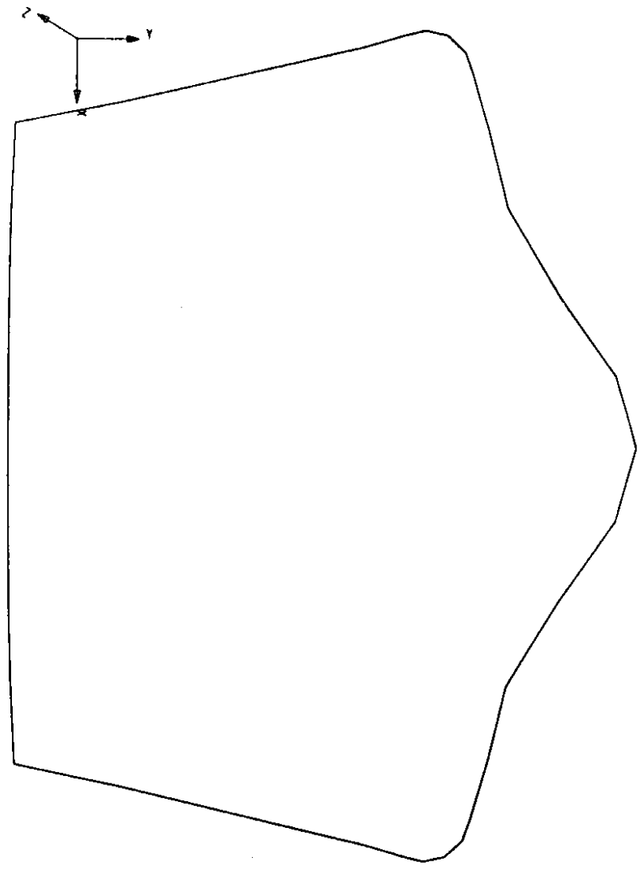
- El coeficiente que se considerará será $\phi = 1.67$, obtenido mediante la expresión que depende de la ley del elemento, por tratarse de un valor intermedio entre los correspondientes calculados con los periodos de vibración de la sección con o sin carbilla

Calculo de los Modos de Vibracion en la seccion transversal.

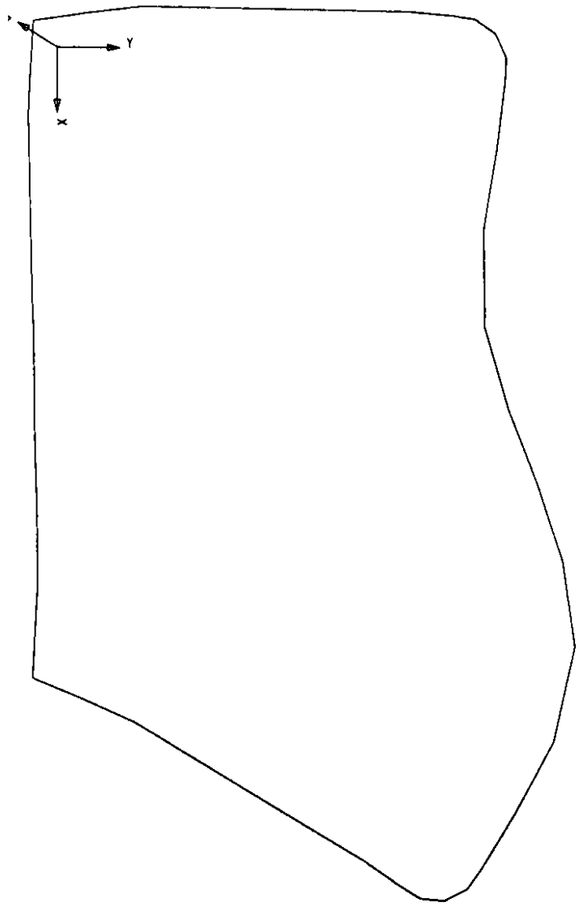
estr Seccion transversal (intermedia con costilla) 2



```
estr Seccion transversal (intermedia con costilla)
nume de nudo   34
nume de barr   34
nume de modo   10
nume de apoy    2
tipo port plan
list norm
coor de nudo
      1     -7.8207      7.5155
      2     -7.7400      7.1205
      3     -7.7191      7.9197
      4     -7.5493      6.4020
      5     -7.4052      8.2309
      6     -7.0008      8.3509
      7     -6.3615      1.9270
      8     -6.1049      0.9604
      9     -5.9339      8.5831
     10     -5.8500      0.0000 desp x y
     11     -4.5537      8.8192
     12     -4.2313      0.0000
     13     -3.0036      0.0000
     14     -2.8511      9.0225
     15     -1.4964      0.0000
     16     -1.3470      9.1228
     17      0.0000      0.0000
     18      0.0000      9.1571
     19      1.3470      9.1228
     20      1.4964      0.0000
     21      2.8511      9.0225
     22      3.0036      0.0000
     23      4.2313      0.0000
     24      4.5537      8.8192
     25      5.8500      0.0000 desp y
     26      5.9339      8.5831
     27      6.1049      0.9604
     28      6.3615      1.9270
     29      7.0008      8.3509
     30      7.4052      8.2309
     31      7.5493      6.4020
     32      7.7191      7.9197
     33      7.7400      7.1205
     34      7.8207      7.5155
inci de barr
     1    17   20
     2    20   22
     3    22   23
     4    23   25
     5    25   27
     6    27   28
     7    28   31
     8    31   33
     9    33   34
    10    34   32
    11    32   30
    12    30   29
    13    29   26
    14    26   24
    15    24   21
    16    21   19
    17    19   18
    18    18   16
    19    16   14
    20    14   11
    21    11    9
    22     9    6
    23     6    5
    24     5    3
    25     3    1
    26     1    2
    27     2    4
    28     4    7
    29     7    8
    30     8   10
    31    10   12
    32    12   13
    33    13   15
    34    15   17
mate de barr
     1 a   34    1
prop de barr pris
         1 1.4624 0.5592 0.1185
         2 1.3276 0.5071 0.0828
         3 1.1563 0.4192 0.0421
         4 0.9590 0.2870 0.0131
         5 1.9200 1.6271 0.0655
         6 1.2000 1.0169 0.0160
         7 0.8800 0.7458 0.0117
  8 a 14 1.2000 1.0169 0.0160
 15 a 20 0.0400 0.0339 0.0001
 21 a 27 1.2000 1.0169 0.0160
        28 0.8800 0.7458 0.0117
        29 1.2000 1.0169 0.0160
        30 1.9200 1.6271 0.0655
        31 0.9590 0.2870 0.0131
        32 1.1563 0.4192 0.0421
        33 1.3276 0.5071 0.0828
        34 1.4624 0.5592 0.1185
cons de mate
     1 3677000. 1532000. 2.5
dato de masa
masa en nudo
* peso propio + carga muerta
10 fuer x y 0.75 0.75
12 fuer x y 0.75 0.75
12 fuer x y 2.37 2.37
13 fuer x y 4.74 4.74
15 fuer x y 4.74 4.74
17 fuer x y 4.74 4.74
20 fuer x y 4.74 4.74
22 fuer x y 4.74 4.74
23 fuer x y 2.37 2.37
23 fuer x y 0.75 0.75
25 fuer x y 0.75 0.75
calc y alma
2 2 2
```

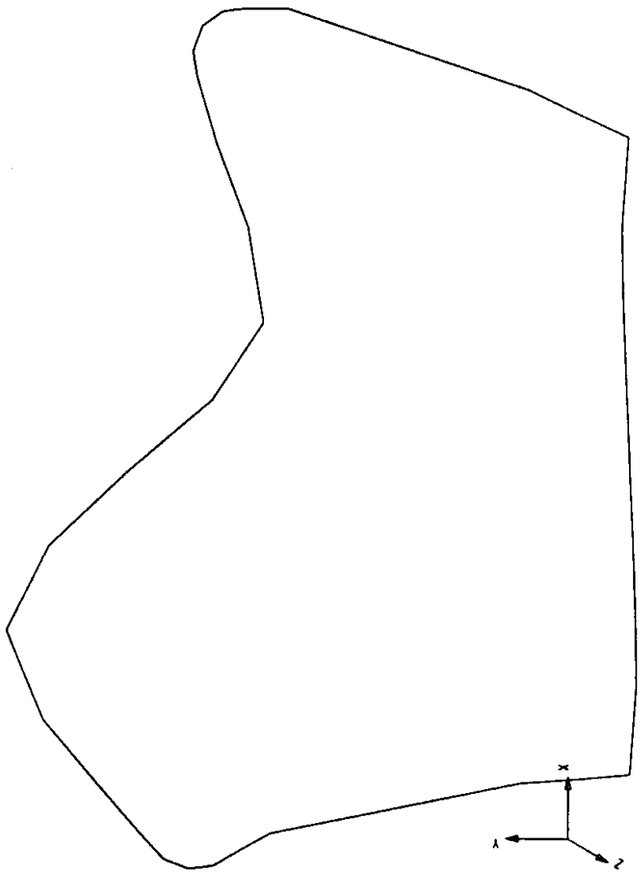



```
#Str Seccion Transversal (Intermedia con cost|||(6)
MODO  2    PERIODO  0.180 SEG.
FACTORES DE DISTRIBUCION  -0.004  -0.004  0.000
```

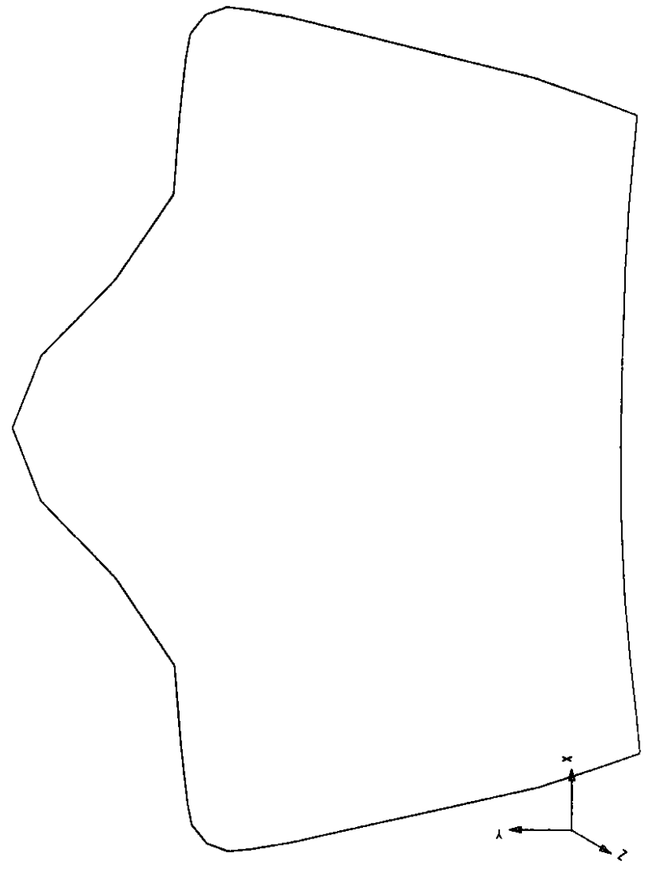



```
#Str Seccion Transversal (Intermedia con cost|||(6)
MODO  1    PERIODO  0.585 SEG.
FACTORES DE DISTRIBUCION  2.062  0.000  0.000
```

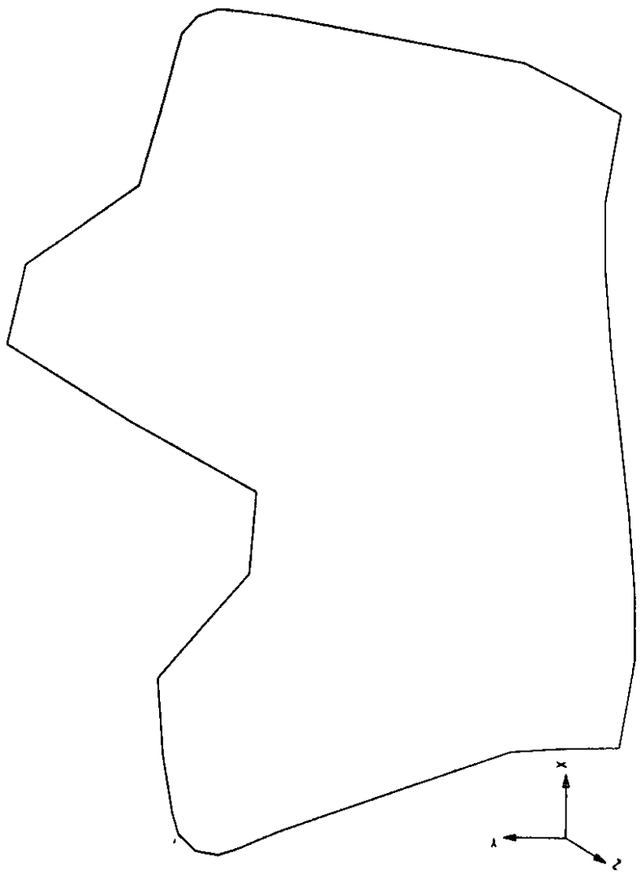
estr Seccion transversal (intermedio con costillo)
MODO 4 PERIODO 0.113 SEG.
FACTORES DE DISTRIBUCION 0.559 -0.002 0.000



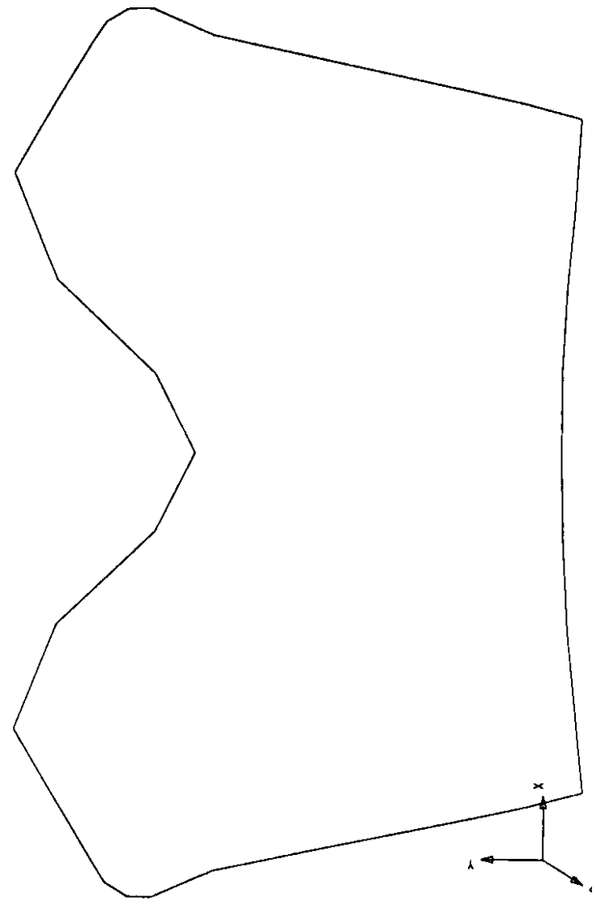
estr Seccion transversal (intermedio con costillo)
MODO 3 PERIODO 0.118 SEG.
FACTORES DE DISTRIBUCION 0.001 1.556 0.000



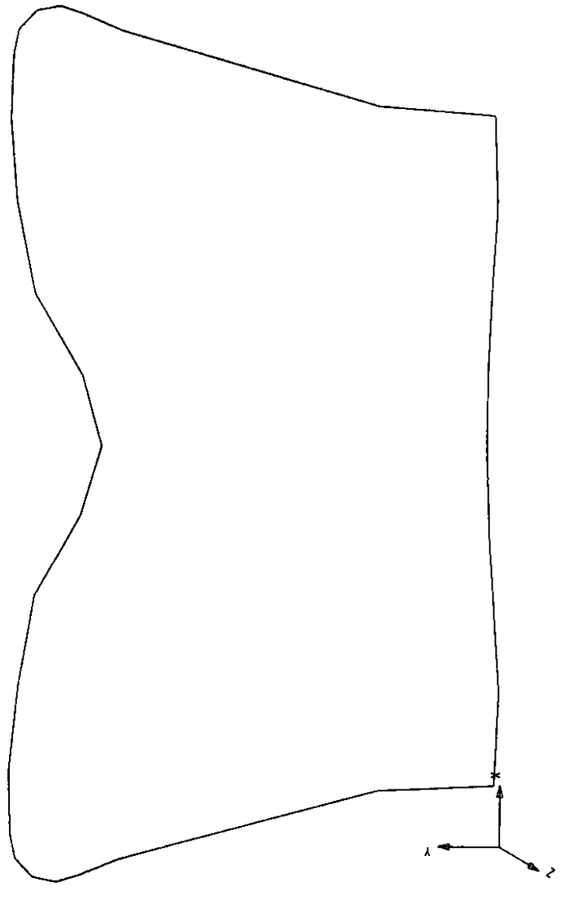
estr Seccion transversal (intermedio con costillo)
MODO 6 PERIODO 0.048 SEG.
FACTORES DE DISTRIBUCION 0.662 0.002 0.000



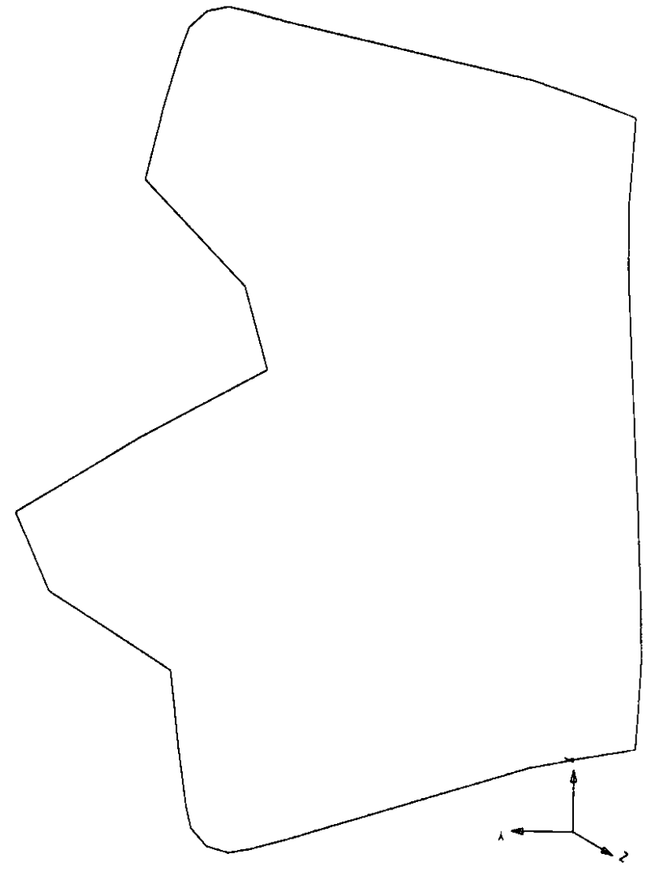
estr Seccion transversal (intermedio con costillo)
MODO 5 PERIODO 0.089 SEG.
FACTORES DE DISTRIBUCION -0.010 2.199 0.000



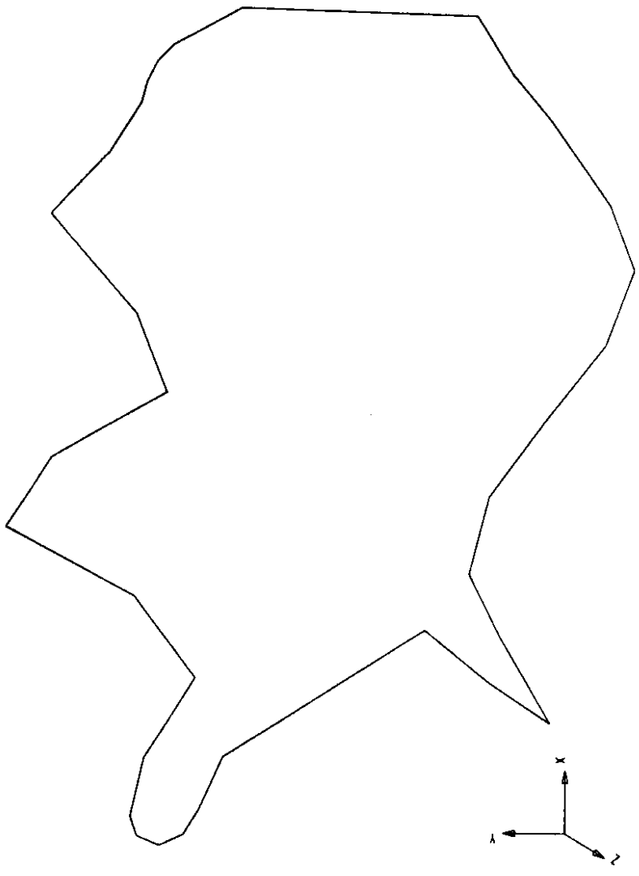
estr Seccion transversal (intermedia con costilla)
MODO 8 PERIODO 0.038 SEG.
FACTORES DE DISTRIBUCION -0.124 0.108 0.000



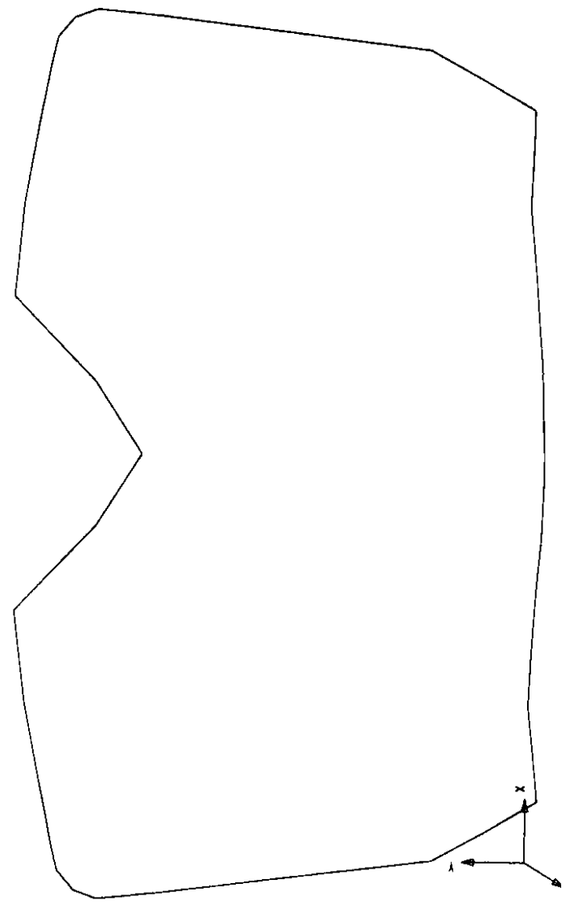
estr Seccion transversal (intermedia con costilla)
MODO 7 PERIODO 0.044 SEG.
FACTORES DE DISTRIBUCION 0.374 -0.001 0.000



estr Seccion transversal (intermedia con costilla)
MODO 10 PERIODO 0.028 SEG.
FACTORES DE DISTRIBUCION 1.108 0.070 0.000



estr Seccion transversal (intermedia con costilla)
MODO 9 PERIODO 0.034 SEG.
FACTORES DE DISTRIBUCION 0.259 -0.372 0.000



AUTOVALORES

N	AUTOVALOR	FRECUENCIA(HZ)	PERIODO(SEG.)
1	0.11536E+03	1.7094	0.58500
2	0.12210E+04	5.5614	0.17981
3	0.28321E+04	8.4699	0.11807
4	0.31187E+04	8.8880	0.11251
5	0.50281E+04	11.2855	0.08861
6	0.17292E+05	20.9285	0.04778
7	0.20711E+05	22.9045	0.04366
8	0.25423E+05	25.3766	0.03941
9	0.34933E+05	29.7465	0.03362
10	0.49318E+05	35.3445	0.02829

MODOS DE VIBRACION NORMALIZADOS

FACTORES MULTIPLICADORES PARA CADA DIRECCION

2.0621 0.0000

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.0043 -0.0044

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.0009 1.5557

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.5589 -0.0023

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.0096 2.1993

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.6624 0.0020

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.3741 -0.0006

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.1241 0.1082

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.2590 -0.3723

FACTORES MULTIPLICADORES PARA CADA DIRECCION

1.1078 0.0704

MASA TOTAL DE LA ESTRUCTURA: 128.5

PROPORCION DE MASA MOVILIZADA ACUMULADA
PARA CADA MODO Y DIRECCION EN ACCIONES SISMICAS

MODO	TANTO POR CIENTO PARA CADA DIRECCION	
1	32.5	0.0
2	32.5	0.0
3	32.5	19.2
4	34.8	19.2
5	34.8	57.7
6	38.2	57.7
7	39.3	57.7
8	39.4	57.8
9	39.9	58.9
10	49.3	58.9

ERROR CUADRATICO MEDIO EN CADA AUTOVECTOR

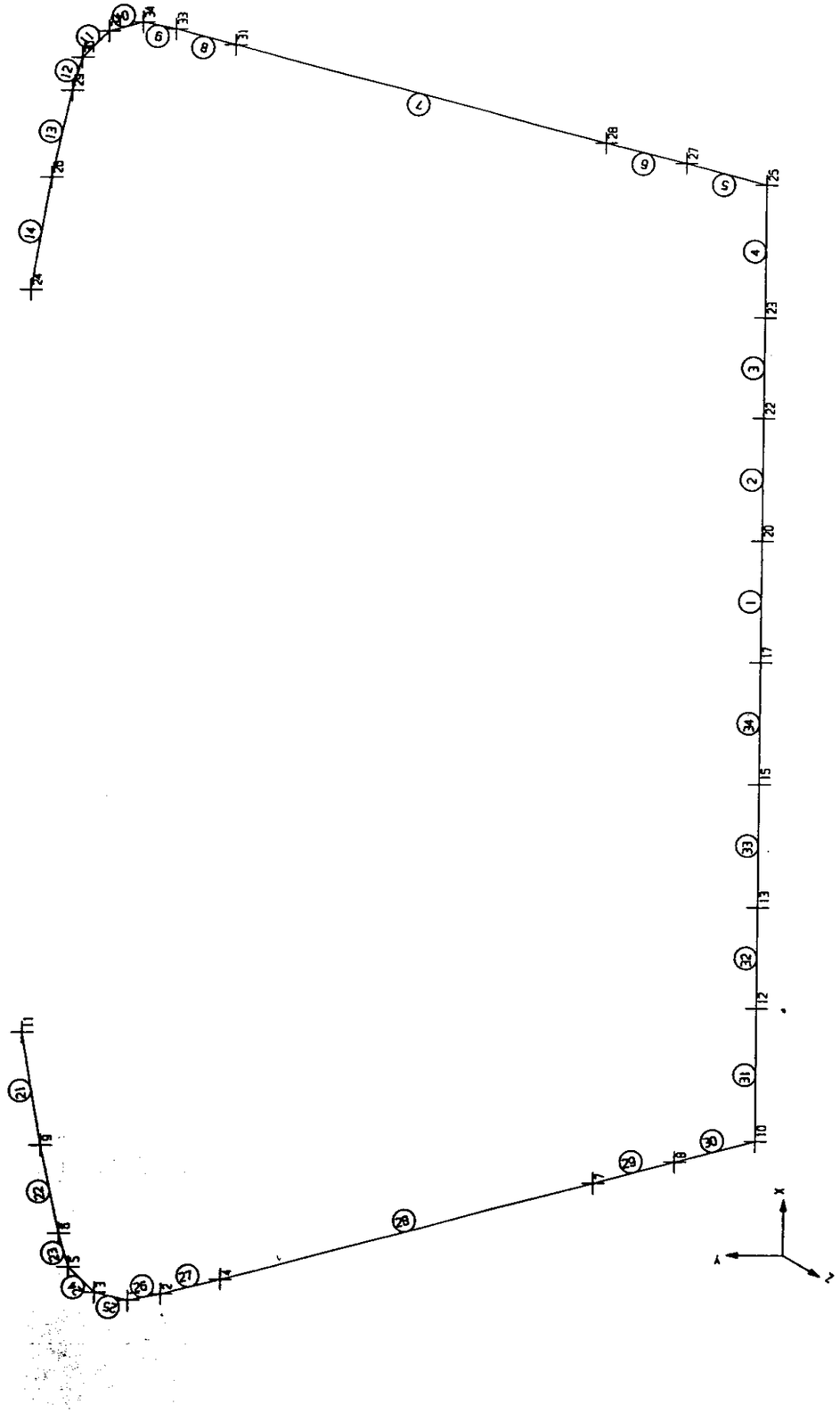
MODO	ERROR(T POR UNO)
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0003
8	0.0017
9	0.0044
10	0.0033

SE HAN HALLADO EFECTIVAMENTE LOS 10 AUTOVALORES MAS PEQUENOS

EL PERIODO CORRESPONDO AL MODO nº 3, CUYO VALOR ES:

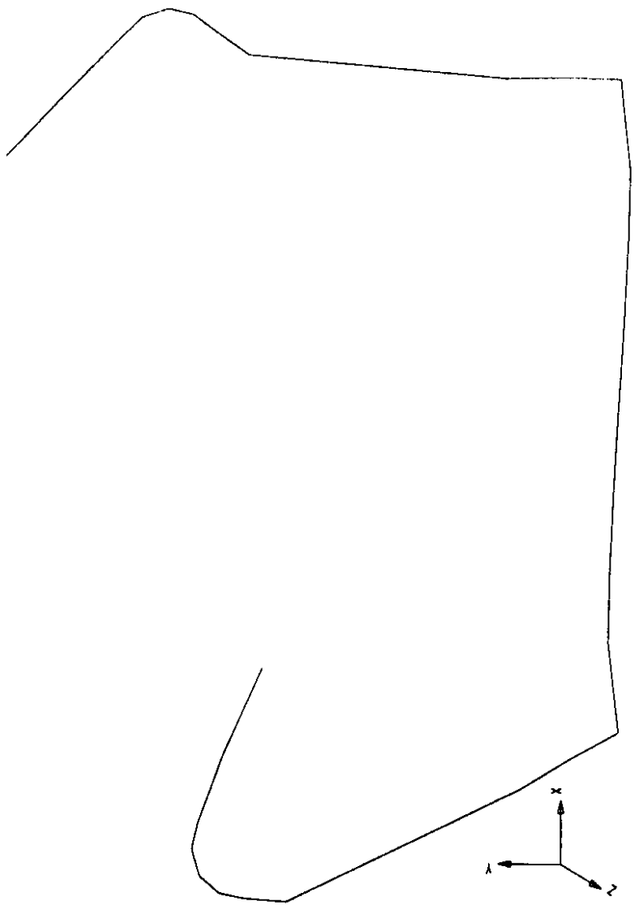
Periodo = 0,11807 sg.

estr Seccion transversal (intermedia sin costilla) -0

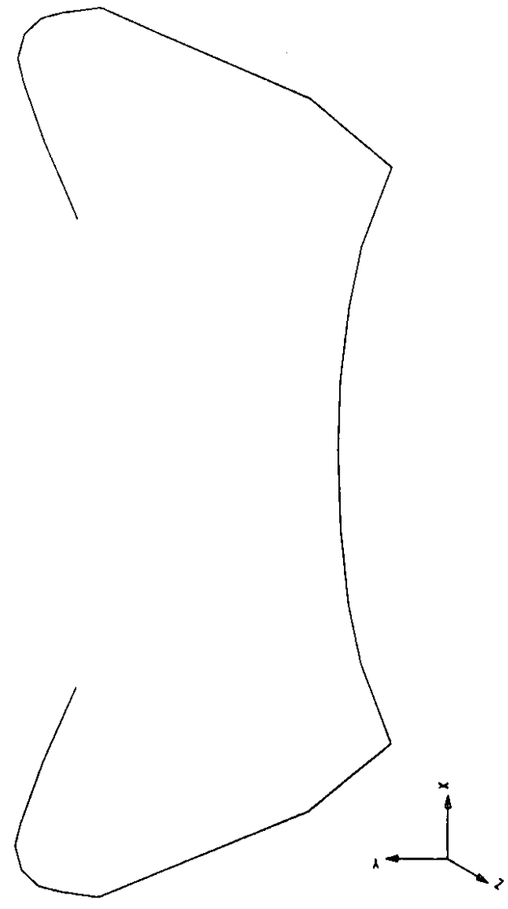


```
estr Seccion transversal (intermedia sin costilla)
nume de nudo   29
nume de barr   28
nume de apoy    2
nume de modo   10
nume de muel    2
tipo port plan
list norm
coor de nudo
     1      -7.8207       7.5155
     2      -7.7400       7.1205
     3      -7.7191       7.9197
     4      -7.5493       6.4020
     5      -7.4052       8.2309
     6      -7.0008       8.3509
     7      -6.3615       1.9270
     8      -6.1049       0.9604
     9      -5.9339       8.5831
    10      -5.8500       0.0000 desp x y
    11      -4.5537       8.8192
    12      -4.2313       0.0000
    13      -3.0036       0.0000
    15      -1.4964       0.0000
    17       0.0000       0.0000
    20       1.4964       0.0000
    22       3.0036       0.0000
    23       4.2313       0.0000
    24       4.5537       8.8192
    25       5.8500       0.0000 desp y
    26       5.9339       8.5831
    27       6.1049       0.9604
    28       6.3615       1.9270
    29       7.0008       8.3509
    30       7.4052       8.2309
    31       7.5493       6.4020
    32       7.7191       7.9197
    33       7.7400       7.1205
    34       7.8207       7.5155
inci de barr
     1    17   20
     2    20   22
     3    22   23
     4    23   25
     5    25   27
     6    27   28
     7    28   31
     8    31   33
     9    33   34
    10    34   32
    11    32   30
    12    30   29
    13    29   26
    14    26   24
    21    11    9
    22     9    6
    23     6    5
    24     5    3
    25     3    1
    26     1    2
    27     2    4
    28     4    7
    29     7    8
    30     8   10
    31    10   12
    32    12   13
    33    13   15
    34    15   17
mate de barr
     1 a   14     1
    21 a   34     1
prop de barr pris
       1 1.4624 0.5592 0.1185
       2 1.3276 0.5071 0.0828
       3 1.1563 0.4192 0.0421
       4 0.9590 0.2870 0.0131
       5 1.9200 1.6271 0.0655
       6 1.2000 1.0169 0.0160
       7 0.4400 0.3729 0.0059
 8 a 14  1.2000 1.0169 0.0160
21 a 27  1.2000 1.0169 0.0160
      28 0.4400 0.3729 0.0059
      29 1.2000 1.0169 0.0160
      30 1.9200 1.6271 0.0655
      31 0.9590 0.2870 0.0131
      32 1.1563 0.4192 0.0421
      33 1.3276 0.5071 0.0828
      34 1.4624 0.5592 0.1185
prop de muel
111 11 8750. 1. 0.
124 24 8750. 1. 0.
cons de mate
     1 3677000. 1532000. 2.5
dato de masa
masa en nudo
* peso propio + carga muerta
 0 fuer x y 0.75 0.75
12 fuer x y 0.75 0.75
12 fuer x y 2.37 2.37
13 fuer x y 4.74 4.74
15 fuer x y 4.74 4.74
17 fuer x y 4.74 4.74
20 fuer x y 4.74 4.74
22 fuer x y 4.74 4.74
23 fuer x y 2.37 2.37
23 fuer x y 0.75 0.75
25 fuer x y 0.75 0.75
calc y alma
2 2 2
```

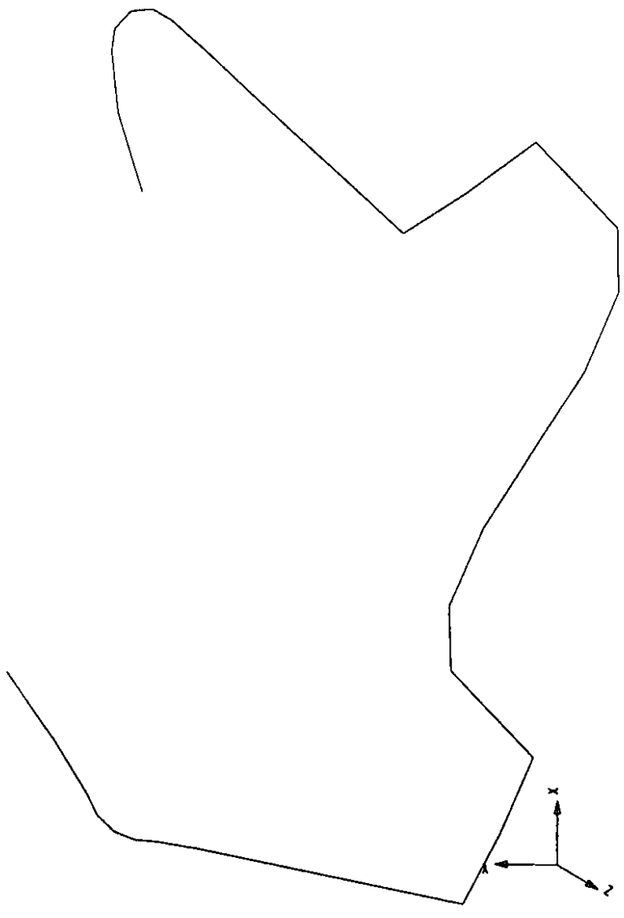
Seccion transversal (intermedio sin costilla)
2 PERIODO 0.129 SEG.
FACTORES DE DISTRIBUCION -1.221 0.002 0.000



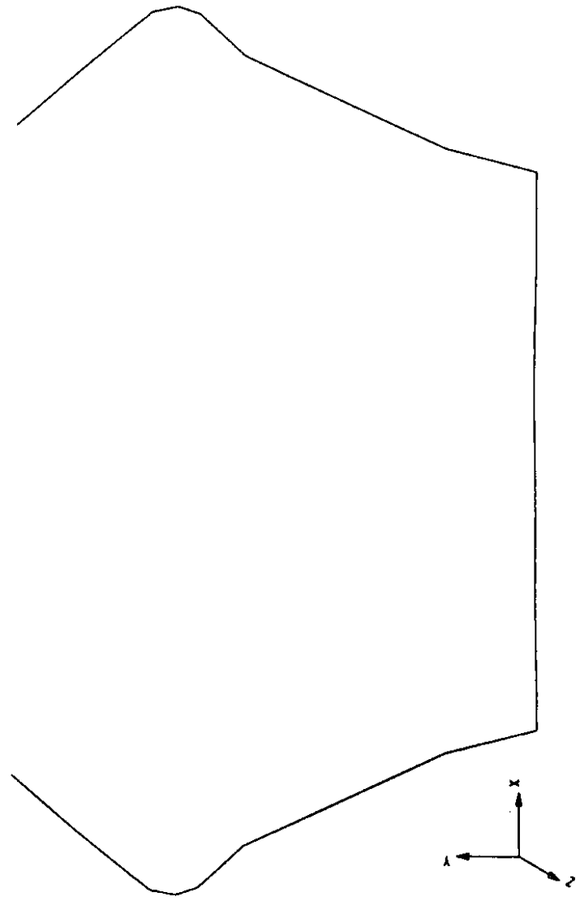
estr Seccion transversal (intermedio sin costilla)
MODO 1 PERIODO 0.155 SEG.
FACTORES DE DISTRIBUCION 0.005 0.633 0.000



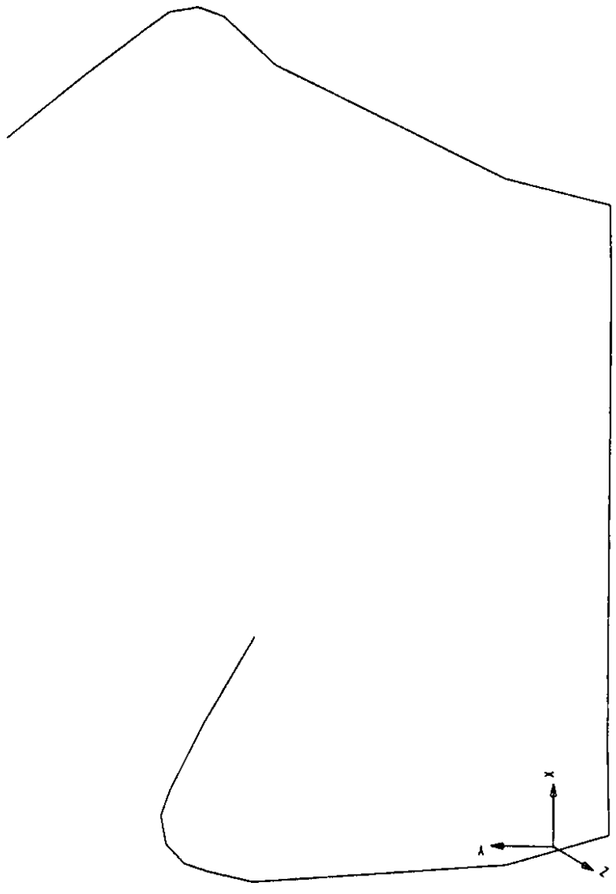
Seccion transversal (intermedio sin costillo)
MODO 6 PERIODO 0.047 SEG
FACTORES DE DISTRIBUCION -0.573 0.000 0.000



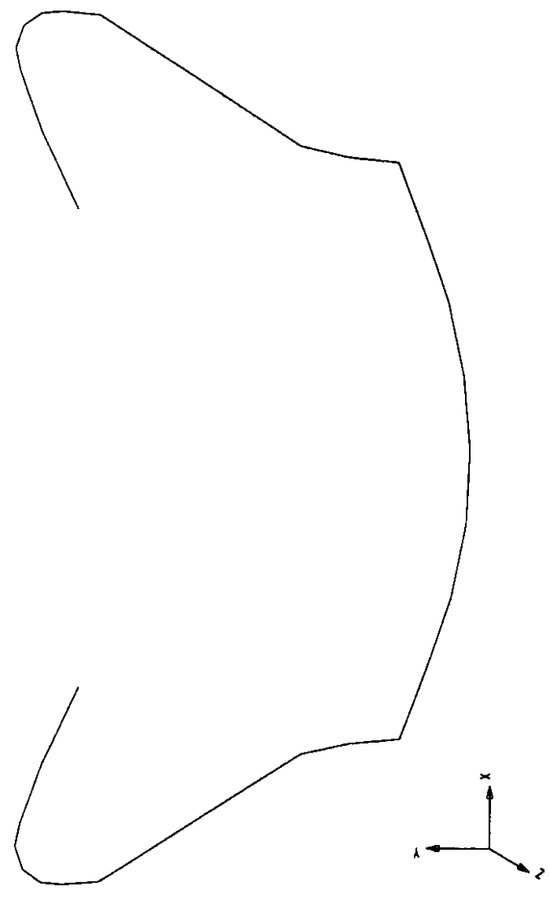
estr Seccion transversal (intermedio sin costillo)
MODO 5 PERIODO 0.073 SEG.
FACTORES DE DISTRIBUCION -0.025 0.498 0.000



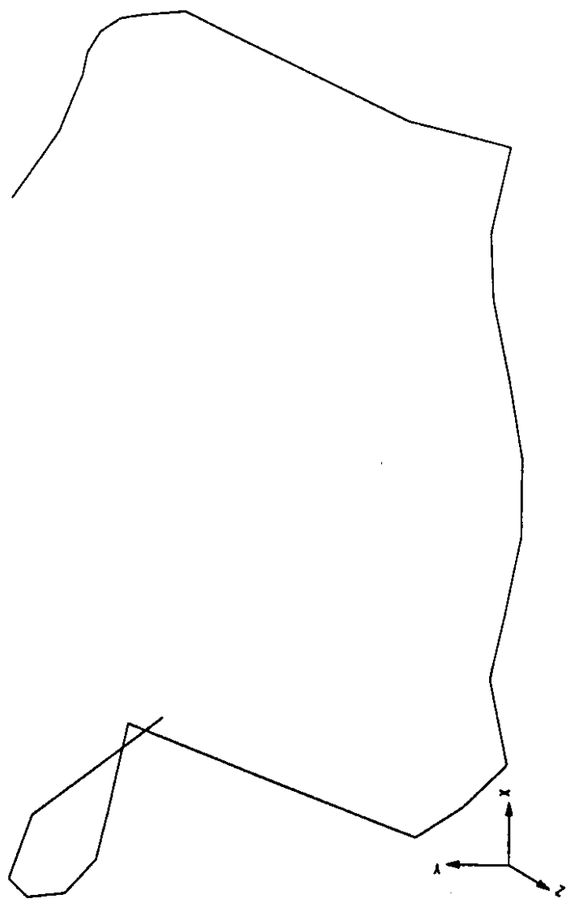
estr Seccion transversal (intermedio sin costillo)
MODO 4 PERIODO 0.073 SEG.
FACTORES DE DISTRIBUCION 1.525 0.009 0.000



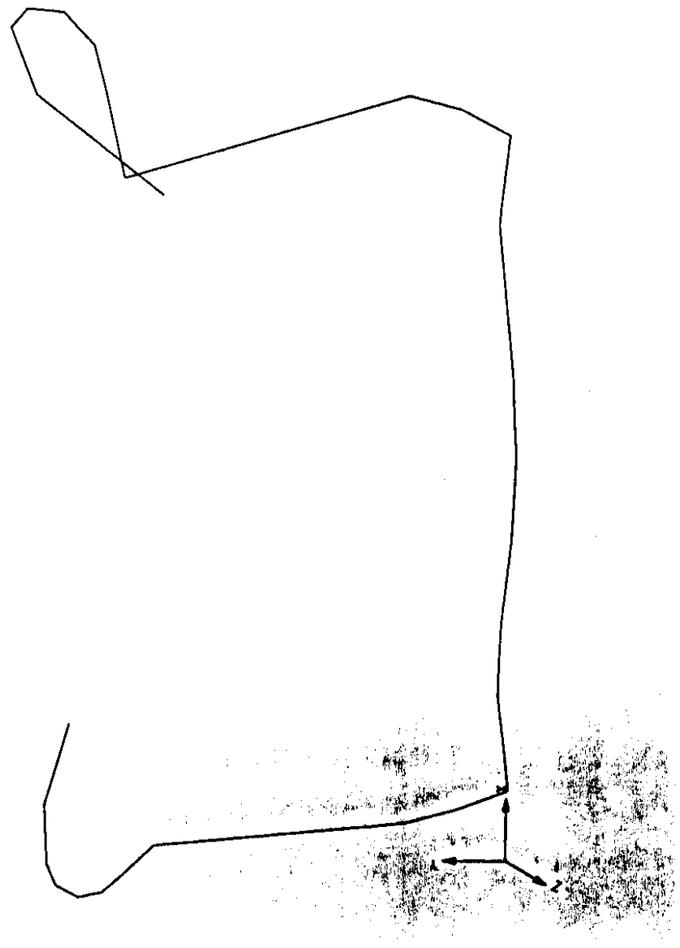
estr Seccion transversal (intermedio sin costillo)
MODO 3 PERIODO 0.100 SEG.
FACTORES DE DISTRIBUCION 0.006 -2.554 0.000



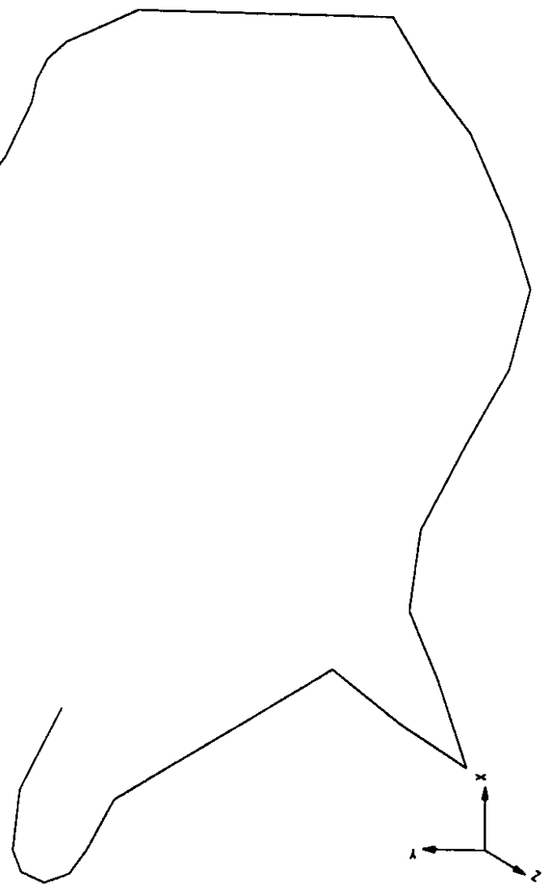
Seccion transversal (intermedia sin costilla)
MODO 10 PERIODO 0.020 SEG.
FACTORES DE DISTRIBUCION -0.830 0.113 0.000



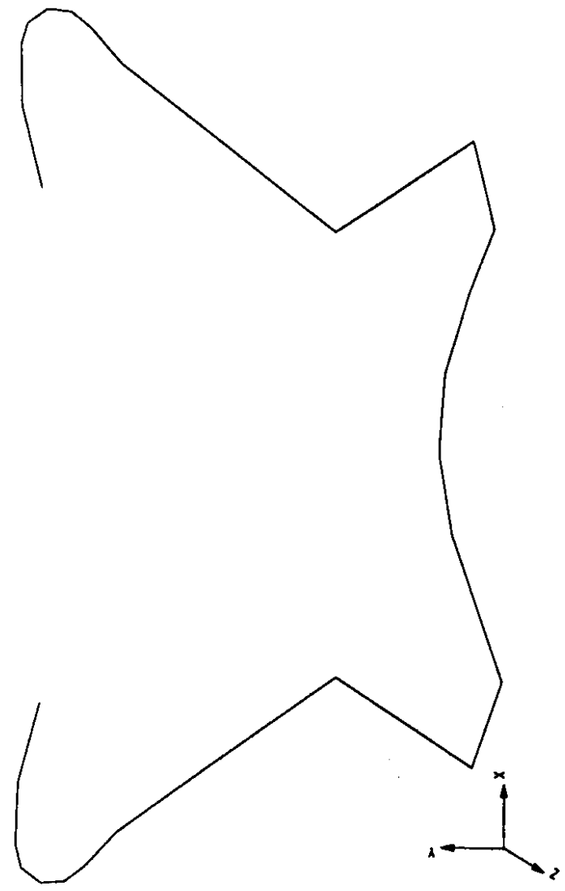
estr Seccion transversal (intermedia sin costilla)
MODO 9 PERIODO 0.020 SEG.
FACTORES DE DISTRIBUCION 0.833 0.245 0.000



estr Seccion transversal (intermedia sin costilla)
MODO 8 PERIODO 0.020 SEG.
FACTORES DE DISTRIBUCION 1.119 0.055 0.000



estr Seccion transversal (intermedia sin costilla)
MODO 7 PERIODO 0.033 SEG.
FACTORES DE DISTRIBUCION -0.302 0.330 0.000



AUTOVALORES

N	AUTOVALOR	FRECUENCIA(HZ)	PERIODO(SEG.)
1	0.16365E+04	6.4385	0.15532
2	0.23867E+04	7.7754	0.12861
3	0.39725E+04	10.0312	0.09969
4	0.73727E+04	13.6658	0.07318
5	0.73774E+04	13.6701	0.07315
6	0.18254E+05	21.5028	0.04651
7	0.36025E+05	30.2080	0.03310
8	0.56608E+05	37.8667	0.02641
9	0.95595E+05	49.2082	0.02032
10	0.99075E+05	50.0959	0.01996

MODOS DE VIBRACION NORMALIZADOS

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.0054 0.6329

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-1.2209 0.0021

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.0061 -2.5542

FACTORES MULTIPLICADORES PARA CADA DIRECCION

1.5254 0.0090

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.0248 0.4960

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.5734 -0.0005

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.3018 0.3304

FACTORES MULTIPLICADORES PARA CADA DIRECCION

1.1190 0.0554

FACTORES MULTIPLICADORES PARA CADA DIRECCION

0.8332 0.2447

FACTORES MULTIPLICADORES PARA CADA DIRECCION

-0.8303 0.1126

MASA TOTAL DE LA ESTRUCTURA: 117.4

PROPORCION DE MASA MOVILIZADA ACUMULADA
PARA CADA MODO Y DIRECCION EN ACCIONES SISMICAS

MODO	TANTO POR CIENTO PARA CADA DIRECCION	
1	0.0	3.5
2	12.5	3.5
3	12.5	60.5
4	31.9	60.5
5	31.9	62.6
6	34.6	62.6
7	35.4	63.6
8	45.9	63.6
9	51.7	64.1
10	57.4	64.2

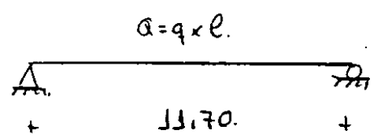
ERROR CUADRATICO MEDIO EN CADA AUTOVECTOR

MODO	ERROR(T.POR UNO)
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0009
10	0.0002

SE HAN HALLADO EFECTIVAMENTE LOS 10 AUTOVALORES MAS PEQUENOS

CALCULO DEL PERIODO DE VIBRACION

$$T_i = C_i \times \pi \sqrt{\frac{a \times e^3}{E \times I \times g}}$$



siendo:

$C_i = 0{,}12026$; $E = 3.677.000$

a = Peso Propio + Carga muerta = 38,00 + 31,50 = 69,50

$e = 11{,}70$ m

$I = 0{,}0641$ m^4

$$T_i = 0{,}2026 \times \pi \times \sqrt{\frac{69{,}50 \times 11{,}70^3}{3677 \times 10^3 \times 0{,}0641 \times 10}} = \underline{\underline{0{,}1383}} \text{ sg.}$$

Segun calculo aproximado $T = \underline{\underline{0{,}1383}}$ sg

" " con programa modos $T = \underline{\underline{0{,}11553}}$ sg (*)

(*) MODELO SIN COSTILLA SUPERIOR

Ajuste del Tren A de cargas

REPARTO DEL TREN DE CARGAS CONCENTRADO - TREN A

a) Resumen de Resultados del Modelo Espacial

. Carga por eje 30.1.4 = 43.50 T



Sección	M_{zA}	M_{zB}	Q_B
Con cobertura T-1	117,78	-63.49	60.41
Sin cobertura T-6	109,82	-28.60	42.43

b) Resumen de Resultados del Modelo Plano

. Carga por eje 25 T.

Sección	M_{zA}	M_{zB}	Q_B
entre alineamiento	57.82	-14.18	20.
con alineamiento	61.26	-21.63.	20.

c) Coeficiente de reparto longitudinal

. Momentos positivos. $\alpha_p = \frac{117,78}{1.4\Gamma} \cdot \frac{20}{30} \cdot \frac{1}{57,82} = 0.94$

. Momentos negativos $\alpha_n = \frac{63.49}{1.4\Gamma} \cdot \frac{20}{30} \cdot \frac{1}{14.18} = 2.06$

OBSERVACION

- La suma de ferencia entre los coeficientes por momentos positivos y negativos se debe a la capacidad de reparto transversal de la losa de canto de vano de apoyo.

- Se consideran 2 tipos de cargas diferentes dependiendo de los esfuerzos de flexión a evaluar.

. Tren de cargas por momentos positivos

30.I T

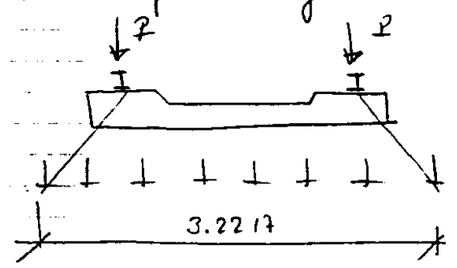
I = Coeficiente de impacto

. Tren de cargas por momentos negativos

60 I T

SOBRECARGA TREN-A

Conforme al reparto realizado



$q = \frac{2P}{3.2217}$ en T/m.

. Hipótesis de momentos positivos

$q_1 = \frac{30}{3.2217} 1.45 = 13.50$ T/m.

. Hipótesis de momentos negativos

$q_2 = \frac{30.2}{3.2217} 1.45 = 27.00$ T/m.

Comparacion de resultados del modelo espacial y el transversal.

proc Seccion transversal (sin pretensado de almas)

Esfuerzos de la barra 31 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	FY	MZ
1 hipo 1 Peso Propio	0.04	17.90	23.68
2 hipo 2 Carga muerta	-1.13	15.99	10.16
3 hipo 3 S.C. Unif. en paseos	-0.04	1.27	0.35
4 hipo 4 S.C. Tren-B (via izquierda	-2.05	36.15	18.63
5 hipo 5 S.C. Tren-B (via derecha)	-2.05	16.03	18.36
6 hipo 6 S.C. Tren-B (dos vias)	-4.10	52.18	36.99
7 hipo 7 S.C. Tren-A (via izquierda	-1.71	30.13	15.53
8 hipo 8 S.C. Tren-A (via derecha)	-1.71	13.36	15.30
9 hipo 9 S.C. Tren-A (dos vias) (mo	-3.42	43.49	30.83
10 hipo 10 S.C. Tren-A (via izquierd	-3.42	60.25	31.05
11 hipo 11 S.C. Tren-A (via derecha)	-3.42	26.72	30.60
12 hipo 12 S.C. Tren-A (dos vias) (m	-6.84	86.97	61.65
13 hipo 13 viento X+	1.14	1.96	13.15
14 hipo 14 viento X-	-4.15	-1.96	-9.84
15 carga permanente	-1.09	33.90	33.84
21 max fx (G-I) (e.l.s)	-1.09	33.90	33.84
22 min fx (G-I) (e.l.s)	-7.97	122.14	95.85
23 max fy (G-I) (e.l.s)	-7.97	122.14	95.85
24 min fy (G-I) (e.l.s)	-1.09	33.90	33.84
25 max mz (G-I) (e.l.s)	-7.97	122.14	95.85
26 min mz (G-I) (e.l.s)	-1.09	33.90	33.84
27 max fx (G-II) (e.l.s)	0.04	32.28	42.29
28 min fx (G-II) (e.l.s)	-10.91	108.16	77.40
29 max fy (G-II) (e.l.s)	-6.15	111.69	98.10
30 min fy (G-II) (e.l.s)	-4.72	28.74	21.60
31 max mz (G-II) (e.l.s)	-6.15	111.69	98.10
32 min mz (G-II) (e.l.s)	-0.98	30.51	30.46

proc Seccion transversal (sin pretensado de almas)

Esfuerzos de la barra 34 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	FY	MZ
1 hipo 1 Peso Propio	-0.04	0.00	33.30
2 hipo 2 Carga muerta	1.13	0.00	40.41
3 hipo 3 S.C. Unif. en paseos	0.04	0.00	0.51
4 hipo 4 S.C. Tren-B (via izquierda	2.05	16.04	75.47
5 hipo 5 S.C. Tren-B (via derecha)	2.05	-16.03	75.43
6 hipo 6 S.C. Tren-B (dos vias)	4.10	0.01	150.90
7 hipo 7 S.C. Tren-A (via izquierda	1.71	13.37	62.89
8 hipo 8 S.C. Tren-A (via derecha)	1.71	-13.36	62.86
9 hipo 9 S.C. Tren-A (dos vias) (mo	3.42	0.01	125.75
10 hipo 10 S.C. Tren-A (via izquierd	3.42	26.73	125.78
11 hipo 11 S.C. Tren-A (via derecha)	3.42	-26.72	125.72
12 hipo 12 S.C. Tren-A (dos vias) (m	6.84	0.01	251.50
13 hipo 13 viento X+	-1.14	-1.96	-1.66
14 hipo 14 viento X-	4.15	1.96	-1.65
15 carga permanente	1.09	0.00	73.71
21 max fx (G-I) (e.l.s)	1.09	0.00	73.71
22 min fx (G-I) (e.l.s)	7.97	0.01	325.71
23 max fy (G-I) (e.l.s)	4.55	-26.72	199.93
24 min fy (G-I) (e.l.s)	4.51	26.73	199.49
25 max mz (G-I) (e.l.s)	1.09	0.00	73.71
26 min mz (G-I) (e.l.s)	5.24	0.01	225.11
27 max fx (G-II) (e.l.s)	-0.04	-1.77	64.85
28 min fx (G-II) (e.l.s)	10.91	1.78	291.66
29 max fy (G-II) (e.l.s)	3.07	-25.82	178.45
30 min fy (G-II) (e.l.s)	7.80	25.83	178.05
31 max mz (G-II) (e.l.s)	3.70	0.00	63.36
32 min mz (G-II) (e.l.s)	4.71	0.01	202.60

proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 10

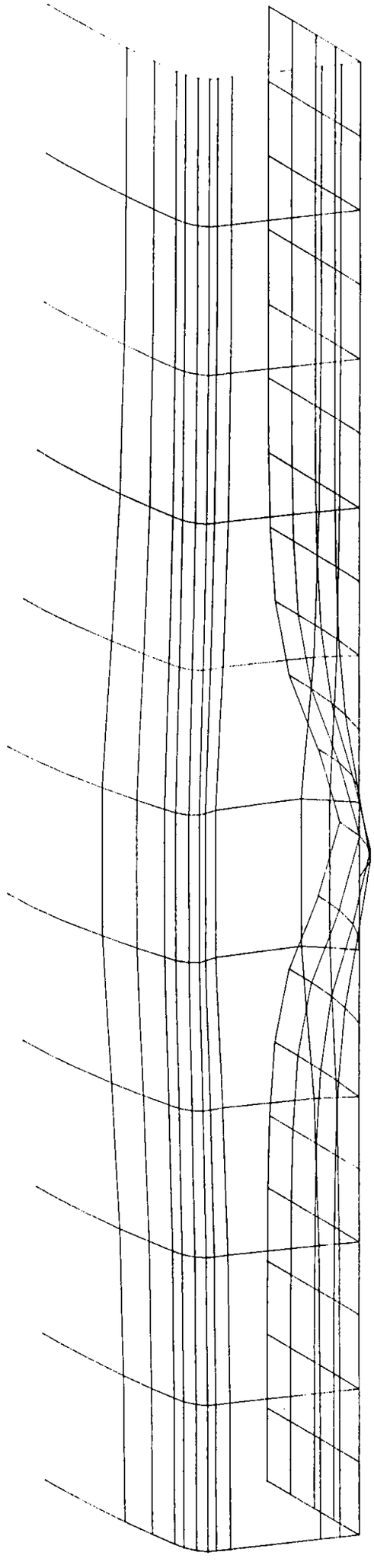
hipo 10 Tren-A (sobre viga transv-10)

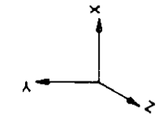
ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT Y	ESF. CORT Z	MOME. TORSOR	MOME. FLEC Y	MOME. FLEC Z
64	71	2.647	-0.149	-0.141	-1.01	0.08	-9.98
64	70	-2.647	0.149	0.141	1.01	0.14	9.76
65	70	2.768	-0.374	-0.560	-2.61	-0.16	-9.20
65	72	-2.768	0.374	0.560	2.61	1.00	8.64
66	72	3.018	-0.424	-1.431	-3.80	-1.31	-7.55
66	73	-3.018	0.424	1.431	3.80	3.06	7.03
67	73	3.372	-0.272	-2.860	-4.64	-4.21	-5.77
67	74	-3.372	0.272	2.860	4.64	8.84	5.33
68	74	-1.395	-4.691	0.200	-15.14	-1.32	-2.57
68	75	1.395	4.691	-0.200	15.14	1.12	-2.09
69	75	-1.369	-2.222	0.350	-6.08	-1.25	2.87
69	76	1.369	2.222	-0.350	6.08	0.90	-5.09
70	76	-1.358	0.127	0.074	0.26	-0.96	5.47
70	77	1.358	-0.127	-0.074	-0.26	0.62	-4.88
71	77	-1.360	0.703	1.166	3.20	-0.68	4.66
71	78	1.360	-0.703	-1.166	-3.20	-0.18	-4.14
72	78	-1.311	0.914	2.320	4.09	-0.10	4.04
72	79	1.311	-0.914	-2.320	-4.09	-0.84	-3.67
73	79	-0.766	-1.434	-3.242	4.40	1.22	-3.63
73	80	0.766	1.434	3.242	-4.40	0.13	3.03
74	80	0.113	-1.638	-3.673	4.07	2.50	-2.99
74	81	-0.113	1.638	3.673	-4.07	-0.88	2.27
75	81	0.896	-1.376	-3.467	3.23	3.07	-2.24
75	82	-0.896	1.376	3.467	-3.23	-1.61	1.66
76	82	1.032	-1.183	-2.778	3.03	2.52	-1.63
76	83	-1.032	1.183	2.778	-3.03	0.52	0.33
77	83	1.128	-0.381	-0.965	1.74	0.69	-0.32
77	84	-1.128	0.381	0.965	-1.74	0.66	-0.22
78	84	1.172	-0.140	0.000	0.00	-0.02	0.22
78	85	-1.172	0.140	0.000	0.00	0.02	-0.46
79	85	1.178	-0.079	0.000	0.00	-0.02	0.46
79	86	-1.178	0.079	0.000	0.00	0.02	-0.58
80	86	1.180	-0.030	0.000	0.00	-0.02	0.58
80	87	-1.180	0.030	0.000	0.00	0.02	-0.62
81	89	-0.279	-2.377	0.063	-3.04	0.28	-37.09
81	88	0.279	2.377	-0.063	3.04	-0.38	33.53
82	88	-0.213	-5.514	0.253	-7.51	0.14	-32.70
82	90	0.213	5.514	-0.253	7.51	-0.52	24.39
83	90	-0.098	-6.912	0.719	-9.84	-0.05	-22.55
83	91	0.098	6.912	-0.719	9.84	-0.83	14.07
84	91	0.005	-6.687	1.750	-9.71	-0.15	-11.82
84	92	-0.005	6.687	-1.750	9.71	-2.68	0.99
85	94	-5.903	-3.347	-0.047	-1.96	0.17	-90.45
85	93	5.903	3.347	0.047	1.96	-0.09	85.44

86	93	-6.157	-17.119	-0.247	-9.76	0.09	-86.29	115	125	2.410	-2.584	2.607	-2.79	-1.37	1.29
86	95	6.157	17.119	0.247	9.76	0.28	60.48	115	126	-2.410	2.584	-2.607	2.78	0.28	-2.36
87	95	-6.716	-31.371	-0.866	-16.42	-0.40	-61.97	116	126	3.326	-0.917	2.857	-2.39	-1.89	2.24
87	96	6.716	31.371	0.866	16.42	1.46	23.46	116	127	-3.326	0.917	-2.857	2.39	0.62	-2.64
88	96	-7.554	-37.635	-2.274	-17.81	-1.96	-24.93	117	127	3.288	0.761	2.531	-1.84	-1.91	2.53
88	97	7.554	37.635	2.274	17.81	5.65	-35.99	117	128	-3.288	-0.761	-2.531	1.84	0.84	-2.21
89	97	0.923	10.105	-4.266	-12.32	11.55	42.95	118	128	3.089	0.882	1.786	-1.70	-1.39	1.93
89	98	-0.923	-10.105	4.266	12.32	-7.31	-32.91	118	129	-3.089	-0.882	-1.786	1.70	-0.56	-0.97
90	98	0.886	7.173	-3.250	-4.93	7.12	31.66	119	129	2.850	0.014	0.423	-0.93	-0.18	0.50
90	99	-0.886	-7.173	3.250	4.93	-3.87	-24.49	119	130	-2.850	-0.014	-0.423	0.93	-0.41	-0.48
91	99	0.869	4.678	-1.024	0.31	3.80	23.77	120	130	2.742	-0.327	0.000	0.00	0.02	0.16
91	100	-0.869	-4.678	1.024	-0.31	0.95	-2.11	120	131	-2.742	0.327	0.000	0.00	-0.02	-0.72
92	100	0.861	3.777	0.633	2.25	-0.97	2.54	121	131	2.755	-0.184	0.000	0.00	0.02	0.72
92	101	-0.861	-3.777	-0.633	-2.25	0.50	0.26	121	132	-2.755	0.184	0.000	0.00	-0.02	-1.00
93	101	1.058	3.475	1.783	2.77	-0.68	-0.02	122	132	2.760	-0.070	0.000	0.00	0.02	1.00
93	102	-1.058	-3.475	-1.783	-2.77	-0.04	1.42	122	133	-2.760	0.070	0.000	0.00	-0.02	-1.10
94	102	2.409	-2.585	-2.557	2.73	1.28	1.28	123	135	-0.282	-2.377	-0.060	3.04	-0.29	-37.10
94	103	-2.409	2.585	2.557	-2.73	-0.22	-2.36	123	134	0.282	2.377	0.060	-3.04	0.38	33.54 -
95	103	3.325	-0.918	-2.793	2.37	1.80	2.24	124	134	-0.215	-5.516	-0.244	7.51	-0.15	-32.71
95	104	-3.325	0.918	2.793	-2.37	-0.56	-2.64	124	136	0.215	5.516	0.244	-7.51	0.52	24.40
96	104	3.288	0.760	-2.458	1.85	1.83	2.53	125	136	-0.099	-6.914	-0.706	9.84	0.04	-22.56
96	105	-3.288	-0.760	2.458	-1.85	-0.80	-2.21	125	137	0.099	6.914	0.706	-9.84	0.82	14.07
97	105	3.090	0.881	-1.707	1.70	1.32	1.93	126	137	0.004	-6.688	-1.734	9.71	0.15	-11.82
97	106	-3.090	-0.881	1.707	-1.70	0.55	-0.97	126	138	-0.004	6.688	1.734	-9.71	2.66	0.99
98	106	2.851	0.014	-0.376	0.93	0.15	0.49	127	140	2.644	-0.149	0.145	1.01	-0.09	-9.98
98	107	-2.851	-0.014	0.376	-0.93	0.38	-0.48	127	139	-2.644	0.149	-0.145	-1.01	-0.13	9.76
99	107	2.743	-0.328	0.000	0.00	-0.01	0.16	128	139	2.765	-0.375	0.569	2.61	0.14	-9.20
99	108	-2.743	0.328	0.000	0.00	0.01	-0.72	128	141	-2.765	0.375	-0.569	-2.61	-1.00	8.64
100	108	2.757	-0.184	0.000	0.00	-0.01	0.72	129	141	3.016	-0.425	1.444	3.80	1.29	-7.55
100	109	-2.757	0.184	0.000	0.00	0.01	-1.00	129	142	-3.016	0.425	-1.444	-3.80	-3.06	7.02
101	109	2.762	-0.070	0.000	0.00	-0.01	1.00	130	142	3.371	-0.273	2.877	4.64	4.20	-5.77
101	110	-2.762	0.070	0.000	0.00	0.01	-1.10	130	143	-3.371	0.273	-2.877	-4.64	-8.86	5.32
102	112	-2.123	3.885	0.001	0.00	-0.01	-109.82								
102	111	2.123	-3.885	-0.001	0.00	0.00	115.63 -								
103	111	-1.868	-20.306	0.004	0.00	-0.01	-117.15								
103	113	1.868	20.306	-0.004	0.00	0.00	86.54								
104	113	-1.347	-45.127	0.006	-0.01	-0.01	-90.35								
104	114	1.347	45.127	-0.006	0.01	0.00	34.95								
105	114	-0.706	-42.429	0.007	-0.01	0.00	-40.28								
105	115	0.706	42.429	-0.007	0.01	-0.01	-28.40								
106	117	-5.906	-3.348	0.050	1.96	-0.18	-90.46								
106	116	5.906	3.348	-0.050	-1.96	0.10	85.45 -								
107	116	-6.160	-17.122	0.254	9.76	-0.10	-86.30								
107	118	6.160	17.122	-0.254	-9.76	-0.28	60.49								
108	118	-6.719	-31.378	0.877	16.42	0.38	-61.98								
108	119	6.719	31.378	-0.877	-16.42	-1.46	23.46								
109	119	-7.557	-37.644	2.288	17.81	1.95	-24.94								
109	120	7.557	37.644	-2.288	-17.81	-5.65	-36.00								
110	120	0.924	10.109	4.298	12.31	-11.59	42.96								
110	121	-0.924	-10.109	-4.298	-12.31	7.32	-32.91								
111	121	0.886	7.176	3.277	4.93	-7.14	31.66								
111	122	-0.886	-7.176	-3.277	-4.93	3.87	-24.49								
112	122	0.870	4.679	1.040	-0.31	-3.79	23.77								
112	123	-0.870	-4.679	-1.040	0.31	-1.02	-2.11								
113	123	0.862	3.777	-0.645	-2.28	1.05	2.54								
113	124	-0.862	-3.777	0.645	2.28	-0.57	0.27								
114	124	1.058	3.475	-1.816	-2.82	0.75	-0.02								
114	125	-1.058	-3.475	1.816	2.82	-0.02	1.42								

estr Modelo espacial (calculo de la secc. transversal)
nipo 10 Tren-A (sobre viga transv-10)





proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 16

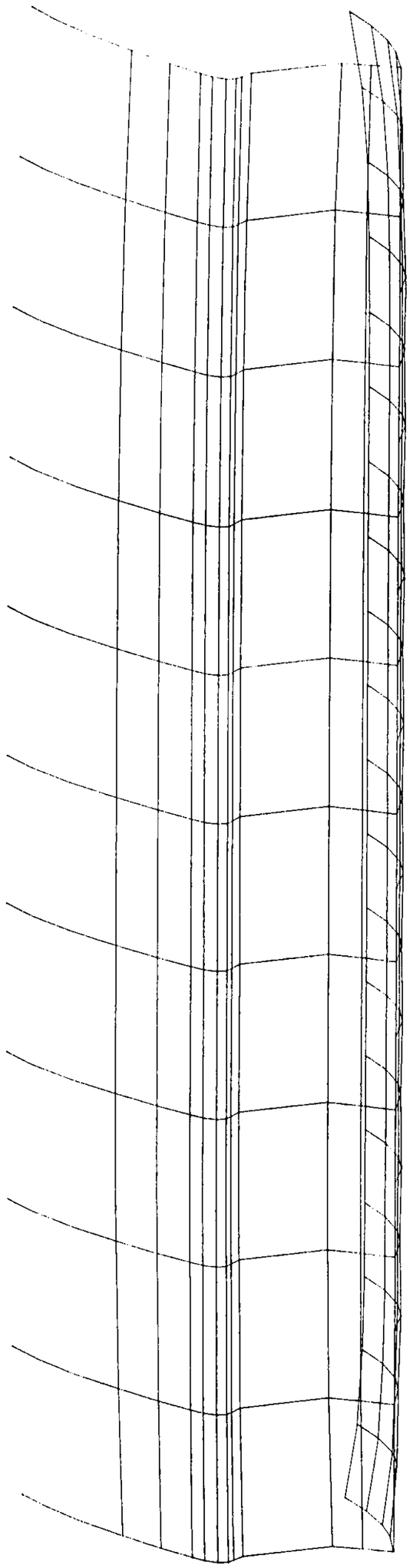
hipo 16 tren-B

ESFUERZOS EN BARRAS

BARRA	NUDO	ESF. AXIL	ESF. CORT Y	ESF. CORT Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
64	71	-4.775	-0.223	0.012	0.00	-0.09	-160.44
64	70	4.775	0.223	-0.012	0.00	0.07	160.11
65	70	-4.933	-27.333	0.039	-0.01	-0.12	-160.53
65	72	4.933	27.333	-0.039	0.01	0.06	119.34
66	72	-5.285	-56.412	0.064	-0.02	-0.16	-120.22
66	73	5.285	56.412	-0.064	0.02	0.08	50.96
67	73	-5.822	-61.187	0.070	-0.03	-0.24	-51.74
67	74	5.822	61.187	-0.070	0.03	0.12	-47.31
68	74	-1.818	6.950	0.235	-0.38	-0.48	62.20
68	75	1.818	-6.950	-0.235	0.38	0.25	-55.29
69	75	-1.826	6.934	0.208	-0.17	-0.33	55.26
69	76	1.826	-6.934	-0.208	0.17	0.12	-48.32
70	76	-1.830	6.941	0.175	-0.04	-0.16	48.29
70	77	1.830	-6.941	-0.175	0.04	-0.65	-16.16
71	77	-1.832	6.927	0.009	-0.02	0.63	16.18
71	78	1.832	-6.927	-0.009	0.02	-0.64	-11.03
72	78	-1.431	7.019	-0.144	-0.05	0.63	11.05
72	79	1.431	-7.019	0.144	0.05	-0.57	-8.22
73	79	1.748	-6.948	0.261	0.15	-0.55	-8.23
73	80	-1.748	6.948	-0.261	-0.15	0.44	5.34
74	80	5.088	-5.042	0.306	0.31	-0.33	-5.35
74	81	-5.088	5.042	-0.306	-0.31	0.20	3.12
75	81	6.865	-2.036	0.265	0.35	-0.07	-3.13
75	82	-6.865	2.036	-0.265	-0.35	-0.05	2.27
76	82	6.993	-1.515	0.165	0.33	0.00	-2.31
76	83	-6.993	1.515	-0.165	-0.33	-0.18	0.66
77	83	7.047	-1.172	0.002	0.22	0.07	-0.74
77	84	-7.047	1.172	-0.002	-0.22	-0.07	-0.90
78	84	7.095	-0.847	0.000	0.00	0.01	0.85
78	85	-7.095	0.847	0.000	0.00	-0.01	-2.30
79	85	7.129	-0.475	0.000	0.00	0.01	2.30
79	86	-7.129	0.475	0.000	0.00	-0.01	-3.01
80	86	7.143	-0.182	0.000	0.00	0.01	3.01
80	87	-7.143	0.182	0.000	0.00	-0.01	-3.26
81	89	-2.265	0.222	0.013	0.00	-0.07	-153.16
81	88	2.265	-0.222	-0.013	0.00	0.05	153.49
82	88	-2.118	-24.869	0.041	-0.01	-0.08	-153.06
82	90	2.118	24.869	-0.041	0.01	0.02	115.58
83	90	-1.789	-47.994	0.079	-0.02	-0.08	-114.70
83	91	1.789	47.994	-0.079	0.02	-0.02	55.78
84	91	-1.286	-43.223	0.118	-0.04	-0.06	-55.01
84	92	1.286	43.223	-0.118	0.04	-0.13	-14.95
85	94	-4.770	-0.221	0.007	0.00	-0.04	-160.53
85	93	4.770	0.221	-0.007	0.00	0.03	160.20

86	93	-4.926	-27.328	0.020	-0.01	-0.05	-160.63	115	125	1.722	-6.951	-0.038	0.02	0.07	-8.52
86	95	4.926	27.328	-0.020	0.01	0.02	119.44	115	126	-1.722	6.951	0.038	-0.02	-0.05	5.63
87	95	-5.272	-56.398	0.029	-0.01	-0.06	-120.32	116	126	5.073	-5.066	-0.048	0.00	0.06	-5.63
87	96	5.272	56.398	-0.029	0.01	0.02	51.08	116	127	-5.073	5.066	0.048	0.00	-0.04	3.39
88	96	-5.800	-61.162	0.032	-0.01	-0.08	-51.86	117	127	6.876	-2.066	-0.052	-0.01	0.05	-3.39
88	97	5.800	61.162	-0.032	0.01	0.03	-47.15	117	128	-6.876	2.066	0.052	0.01	-0.03	2.52
89	97	-1.852	6.896	0.102	-0.11	-0.19	62.04	118	128	7.023	-1.553	-0.052	-0.01	0.05	-2.53
89	98	1.852	-6.896	-0.102	0.11	0.09	-55.19	118	129	-7.023	1.553	0.052	0.01	0.01	0.83
90	98	-1.860	6.885	0.090	-0.05	-0.12	55.18	119	129	7.109	-1.219	-0.028	0.00	0.02	-0.84
90	99	1.860	-6.885	-0.090	0.05	0.03	-48.29	119	130	-7.109	1.219	0.028	0.00	0.02	-0.86
91	99	-1.863	6.881	0.071	-0.01	-0.05	48.28	120	130	7.174	-0.857	0.000	0.00	0.00	0.85
91	100	1.863	-6.881	-0.071	0.01	-0.28	-16.42	120	131	-7.174	0.857	0.000	0.00	0.00	-2.32
92	100	-1.864	6.896	-0.022	-0.05	0.28	16.43	121	131	7.209	-0.481	0.000	0.00	0.00	2.32
92	101	1.864	-6.896	0.022	0.05	-0.26	-11.30	121	132	-7.209	0.481	0.000	0.00	0.00	-3.05
93	101	-1.463	7.004	-0.101	-0.09	0.26	11.31	122	132	7.222	-0.184	0.000	0.00	0.00	3.05
93	102	1.463	-7.004	0.101	0.09	-0.22	-8.48	122	133	-7.222	0.184	0.000	0.00	0.00	-3.29
94	102	1.715	-6.953	0.159	-0.02	-0.25	-8.49	123	135	-2.270	0.222	-0.010	0.00	0.05	-153.22
94	103	-1.715	6.953	-0.159	0.02	0.18	5.59	123	134	2.270	-0.222	0.010	0.00	-0.03	153.55
95	103	5.071	-5.070	0.187	0.05	-0.19	-5.59	124	134	-2.123	-24.871	-0.031	0.01	0.05	-153.13
95	104	-5.071	5.070	-0.187	-0.05	0.11	3.35	124	136	2.123	24.871	0.031	-0.01	-0.01	115.64
96	104	6.870	-2.071	0.176	0.09	-0.10	-3.36	125	136	-1.796	-48.000	-0.050	0.01	0.05	-114.76
96	105	-6.870	2.071	-0.176	-0.09	0.02	2.48	125	137	1.796	48.000	0.050	-0.01	0.02	55.83
97	105	7.015	-1.555	0.138	0.08	-0.07	-2.50	126	137	-1.293	-43.237	-0.064	0.01	0.03	-55.07
97	106	-7.015	1.555	-0.138	-0.08	-0.08	0.80	126	138	1.293	43.237	0.064	-0.01	0.07	-14.92
98	106	7.094	-1.212	0.041	0.05	-0.01	-0.82	127	140	-4.765	-0.221	-0.016	0.00	0.08	-160.52
98	107	-7.094	1.212	-0.041	-0.05	-0.05	-0.87	127	139	4.765	0.221	0.016	0.00	-0.05	160.19
99	107	7.156	-0.854	0.000	0.00	0.00	0.85	128	139	-4.922	-27.328	-0.044	0.01	0.09	-160.62
99	108	-7.156	0.854	0.000	0.00	0.00	-2.32	128	141	4.922	27.328	0.044	-0.01	-0.03	119.43
100	108	7.191	-0.480	0.000	0.00	0.00	2.32	129	141	-5.271	-56.399	-0.063	0.01	0.10	-120.31
100	109	-7.191	0.480	0.000	0.00	0.00	-3.04	129	142	5.271	56.399	0.063	-0.01	-0.02	51.07
101	109	7.205	-0.183	0.000	0.00	0.00	3.04	130	142	-5.801	-61.163	-0.068	0.00	0.12	-51.84
101	110	-7.205	0.183	0.000	0.00	0.00	-3.29	130	143	5.801	61.163	0.068	0.00	-0.01	-47.16
102	112	-2.273	0.222	0.002	0.00	-0.01	-153.23								
102	111	2.273	-0.222	-0.002	0.00	0.01	153.56								
103	111	-2.127	-24.871	0.007	0.00	-0.01	-153.13								
03	113	2.127	24.871	-0.007	0.00	0.00	115.65								
104	113	-1.798	-48.001	0.014	-0.01	-0.01	-114.77								
104	114	1.798	48.001	-0.014	0.01	0.00	55.84								
105	114	-1.295	-43.238	0.021	-0.01	-0.01	-55.07								
105	115	1.295	43.238	-0.021	0.01	-0.02	-14.92								
106	117	-4.763	-0.221	-0.004	0.00	0.02	-160.56								
106	116	4.763	0.221	0.004	0.00	-0.01	160.23								
107	116	-4.919	-27.328	-0.010	0.00	0.02	-160.66								
107	118	4.919	27.328	0.010	0.00	0.00	119.47								
108	118	-5.264	-56.398	-0.014	0.00	0.02	-120.35								
108	119	5.264	56.398	0.014	0.00	0.00	51.11								
109	119	-5.790	-61.160	-0.016	0.00	0.02	-51.88								
109	120	5.790	61.160	0.016	0.00	0.01	-47.12								
110	120	-1.846	6.883	-0.033	0.01	0.06	62.01								
110	121	1.846	-6.883	0.033	-0.01	-0.03	-55.18								
111	121	-1.854	6.875	-0.026	0.00	0.04	55.17								
111	122	1.854	-6.875	0.026	0.00	-0.01	-48.29								
112	122	-1.857	6.874	-0.018	0.00	0.01	48.29								
112	123	1.857	-6.874	0.018	0.00	0.07	-16.46								
3	123	-1.858	6.893	0.006	0.02	-0.07	16.47								
113	124	1.858	-6.893	-0.006	-0.02	0.06	-11.34								
114	124	-1.456	7.003	0.024	0.04	-0.06	11.35								
114	125	1.456	-7.003	-0.024	-0.04	0.05	-8.52								

estr Modelo espacial (calculo de la secc. transversal)
hipo 16 tren-B



Listado de datos

```
estr Seccion transversal (intermedia con costilla)
nume de nudo   34
nume de barr   34
nume de hipo   14
nume de apoy    2
tipo port plan
list todo
coor de nudo
     1     -7.8207      7.5155
     2     -7.7400      7.1205
     3     -7.7191      7.9197
     4     -7.5493      6.4020
     5     -7.4052      8.2309
     6     -7.0008      8.3509
     7     -6.3615      1.9270
     8     -6.1049      0.9604
     9     -5.9339      8.5831
    10     -5.8500      0.0000 desp x y
    11     -4.5537      8.8192
    12     -4.2313      0.0000
    13     -3.0036      0.0000
    14     -2.8511      9.0225
    15     -1.4964      0.0000
    16     -1.3470      9.1228
    17      0.0000      0.0000
    18      0.0000      9.1571
    19      1.3470      9.1228
    20      1.4964      0.0000
    21      2.8511      9.0225
    22      3.0036      0.0000
    23      4.2313      0.0000
    24      4.5537      8.8192
    25      5.8500      0.0000 desp y
    26      5.9339      8.5831
    27      6.1049      0.9604
    28      6.3615      1.9270
    29      7.0008      8.3509
    30      7.4052      8.2309
    31      7.5493      6.4020
    32      7.7191      7.9197
    33      7.7400      7.1205
    34      7.8207      7.5155
inci de barr
     1    17    20
     2    20    22
     3    22    23
     4    23    25
     5    25    27
     6    27    28
     7    28    31
     8    31    33
     9    33    34
    10    34    32
    11    32    30
    12    30    29
    13    29    26
     4    26    24
    15    24    21
    16    21    19
    17    19    18
    18    18    16
    19    16    14
    20    14    11
    21    11     9
    22     9     6
    23     6     5
    24     5     3
    25     3     1
    26     1     2
    27     2     4
    28     4     7
    29     7     8
    30     8    10
    31    10    12
    32    12    13
    33    13    15
    34    15    17
mate de barr
     1 a   34    1
prop de barr pris
     1 1.4624 0.5592 0.1185
     2 1.3276 0.5071 0.0828
     3 1.1563 0.4192 0.0421
     4 0.9590 0.2870 0.0131
     5 1.9200 1.6271 0.0655
     6 1.2000 1.0169 0.0160
     7 0.8800 0.7458 0.0117
 8 a 14 1.2000 1.0169 0.0160
15 a 20 0.0400 0.0339 0.0001
21 a 27 1.2000 1.0169 0.0160
    28 0.8800 0.7458 0.0117
    29 1.2000 1.0169 0.0160
    30 1.9200 1.6271 0.0655
    31 0.9590 0.2870 0.0131
    32 1.1563 0.4192 0.0421
    33 1.3276 0.5071 0.0828
    34 1.4624 0.5592 0.1185
cons de mate
     1 3677000. 1532000. 2.5
hipo 1 Peso Propio
gravedad
 1 a 34 0. -1.
hipo 2 Carga muerta
carg en barr
* balasto+traviesas+carriles
 1 a  3 fuer y unif -2.99
      4 fuer y unif -2.99 0. 0.5187
     31 fuer y unif -2.99 1.1000 0.
32 a 34 fuer y unif -2.99
* paseos
      4 fuer y unif -2.12 0.5187 1.3640
     31 fuer y unif -2.12 0.2550 1.1000
hipo 3 S.C. Unif. en paseos
carg en barr
      4 fuer y unif -1.50 0.5187 1.3640
     31 fuer y unif -1.50 0.2550 1.1000
```

```
hipo 4 S.C. Tren-B (via izquierda)
carg en barr
32 fuer y unif -16.20 0.3712 0.
33 fuer y unif -16.20
34 fuer y unif -16.20 0. 0.8580
hipo 5 S.C. Tren-B (via derecha)
carg en barr
 1 fuer y unif -16.20 0.6399 0.
 2 fuer y unif -16.20
 3 fuer y unif -16.20 0. 0.8580
hipo 6 S.C. Tren-B (dos vias)
carg en barr
 1 fuer y unif -16.20 0.6399 0.
 2 fuer y unif -16.20
 3 fuer y unif -16.20 0. 0.8580
32 fuer y unif -16.20 0.3712 0.
33 fuer y unif -16.20
34 fuer y unif -16.20 0. 0.8580
   o 7 S.C. Tren-A (via izquierda) (mome +)
carg en barr
32 fuer y unif -13.500 0.3712 0.
33 fuer y unif -13.500
34 fuer y unif -13.500 0. 0.8580
hipo 8 S.C. Tren-A (via derecha) (mome +)
carg en barr
 1 fuer y unif -13.500 0.6399 0.
 2 fuer y unif -13.500
 3 fuer y unif -13.500 0. 0.8580
32 fuer y unif -13.500 0.3712 0.
33 fuer y unif -13.500
34 fuer y unif -13.500 0. 0.8580
hipo 10 S.C. Tren-A (via izquierda) (mome -)
   g en barr
32 fuer y unif -27.000 0.3712 0.
33 fuer y unif -27.000
34 fuer y unif -27.000 0. 0.8580
hipo 11 S.C. Tren-A (via derecha) (mome -)
carg en barr
 1 fuer y unif -27.000 0.6399 0.
 2 fuer y unif -27.000
 3 fuer y unif -27.000 0. 0.8580
hipo 12 S.C. Tren-A (dos vias) (mome -)
carg en barr
 1 fuer y unif -27.000 0.6399 0.
 2 fuer y unif -27.000
 3 fuer y unif -27.000 0. 0.8580
32 fuer y unif -27.000 0.3712 0.
33 fuer y unif -27.000
34 fuer y unif -27.000 0. 0.8580
hipo 13 viento X+
carg en barr
21   30 fuer y unif  0.6
hipo 14 viento X-
   carg en barr
    5 a 14 fuer y unif  0.6
   calc  y alma
   2 2 2
```

Combinacion de hipotesis

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PROYECTO_____ HOJA_____ DE _____

FECHA _____

COMBINACIONES DE HIPÓTESIS

GRUPO I $\gamma_{fg} G + \gamma_{fq} \cdot Q + \gamma_p \cdot P$

GRUPO II $0.8(\gamma_{fg} G + \gamma_{fq} Q) + \gamma_p P + 0.8 \gamma_{fq} \cdot W$

ELS I $G + Q + P$

II $0.8G + 0.8Q + P + 0.8W$

ELU I $1.35 G + 1.5 Q + P$

II $1.35 G + 1.35 Q + P + 1.35 W$

proc Seccion transversal (sin pretensado de almas)

numero total de hipotesis previstas: 60

==========

1	hipo 1 Peso Propio
2	hipo 2 Carga muerta
3	hipo 3 S.C. Unif. en paseos
4	hipo 4 S.C. Tren-B (via izquierda)
5	hipo 5 S.C. Tren-B (via derecha)
6	hipo 6 S.C. Tren-B (dos vias)
7	hipo 7 S.C. Tren-A (via izquierda) (mome +)
8	hipo 8 S.C. Tren-A (via derecha) (mome +)
9	hipo 9 S.C. Tren-A (dos vias) (mome +)
10	hipo 10 S.C. Tren-A (via izquierda) (mome -)
11	hipo 11 S.C. Tren-A (via derecha) (mome -)
12	hipo 12 S.C. Tren-A (dos vias) (mome -)
13	hipo 13 viento X+
14	hipo 14 viento X-
15	carga permanente
16	hipo 16 pretensado de nervio inferior (t=0)
17	perdidas pret. losa inferior (t=inf.)
21	max fx (G-I) (e.l.s)
22	min fx (G-I) (e.l.s)
23	max fy (G-I) (e.l.s)
24	min fy (G-I) (e.l.s)
25	max mz (G-I) (e.l.s)
26	min mz (G-I) (e.l.s)
27	max fx (G-II) (e.l.s)
28	min fx (G-II) (e.l.s)
29	max fy (G-II) (e.l.s)
30	min fy (G-II) (e.l.s)
31	max mz (G-II) (e.l.s)
32	min mz (G-II) (e.l.s)
33	p.p. + pret (t=0)
34	carga permanente + pret(t=0)
35	max mz + pret(t=0)
36	min mz + pret(t=0)
37	carga permanente + pret(t=inf.)
38	max mz + pret(t=inf.)
39	min mz + pret(t=inf.)
41	max fx (G-I) (e.l.u)
42	min fx (G-I) (e.l.u)
43	max fy (G-I) (e.l.u)
44	min fy (G-I) (e.l.u)
45	max mz (G-I) (e.l.u)
46	min mz (G-I) (e.l.u)
47	max fx (G-II) (e.l.u)
48	min fx (G-II) (e.l.u)
49	max fy (G-II) (e.l.u)
50	min fy (G-II) (e.l.u)
51	max mz (G-II) (e.l.u)
52	min mz (G-II) (e.l.u)

```
impr
hipo 15 carga permanente
fija 1 a 2
suma
hipo 17 perdidas pret. losa inferior (t=inf.)
fija 16 -0.12
suma
hipo 21 max fx (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 12
maxi fuer x
hipo 22 min fx (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 12
mini fuer x
hipo 23 max fy (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 12
maxi fuer y
hipo 24 min fy (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 12
mini fuer y
hipo 25 max mz (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 6 10 a 12
maxi mome z
hipo 26 min mz (G-I) (e.l.s)
fija 15 16
comp 3 17
inco 4 a 9
mini mome z
hipo 27 max fx (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 12 0.9
maxi fuer x
hipo 28 min fx (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 12 0.9
```



```
mini fuer x
hipo 29 max fy (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 12 0.9
maxi fuer y
hipo 30 min fy (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 12 0.9
mini fuer y
hipo 31 max mz (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 6 0.9 10 a 12 0.9
maxi mome z
hipo 32 min mz (G-II) (e.l.s)
fija 15 0.9 16
comp 3 0.9 13 a 14 0.9 17
inco 4 a 9 0.9
mini mome z
hipo 33 p.p. + pret (t=0)
fija 1 16
suma
hipo 34 carga permanente + pret(t=0)
fija 1 2 16
suma
hipo 35 max mz + pret(t=0)
fija 15 16
comp 3
inco 4 a 6 10 a 12
maxi mome z
hipo 36 min mz + pret(t=0)
fija 15 16
comp 3
inco 4 a 9
mini mome z
hipo 37 carga permanente + pret(t=inf.)
fija 1 2 16 17
suma
hipo 38 max mz + pret(t=inf.)
fija 15 16 17
comp 3
inco 4 a 6 10 a 12
maxi mome z
hipo 39 min mz + pret(t=inf.)
```

```
fija 15 16 17
comp 3
inco 4 a 9
mini mome z
hipo 41 max fx (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 12 1.5
maxi fuer x
hipo 42 min fx (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 12 1.5
mini fuer x
hipo 43 max fy (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 12 1.5
maxi fuer y
hipo 44 min fy (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 12 1.5
mini fuer y
hipo 45 max mz (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 6 1.5 10 a 12 1.5
maxi mome z
hipo 46 min mz (G-I) (e.l.u)
fija 15 1.5 16
comp 3 1.5 17
inco 4 a 9 1.5
mini mome z
hipo 47 max fx (G-II) (e.l.u)
fija 15 1.35 16
comp 3 1.35 13 a 14 1.35 17
inco 4 a 12 1.35
maxi fuer x
hipo 48 min fx (G-II) (e.l.u)
fija 15 1.35 16
comp 3 1.35 13 a 14 1.35 17
inco 4 a 12 1.35
mini fuer x
hipo 49 max fy (G-II) (e.l.u)
fija 15 1.35 16
```



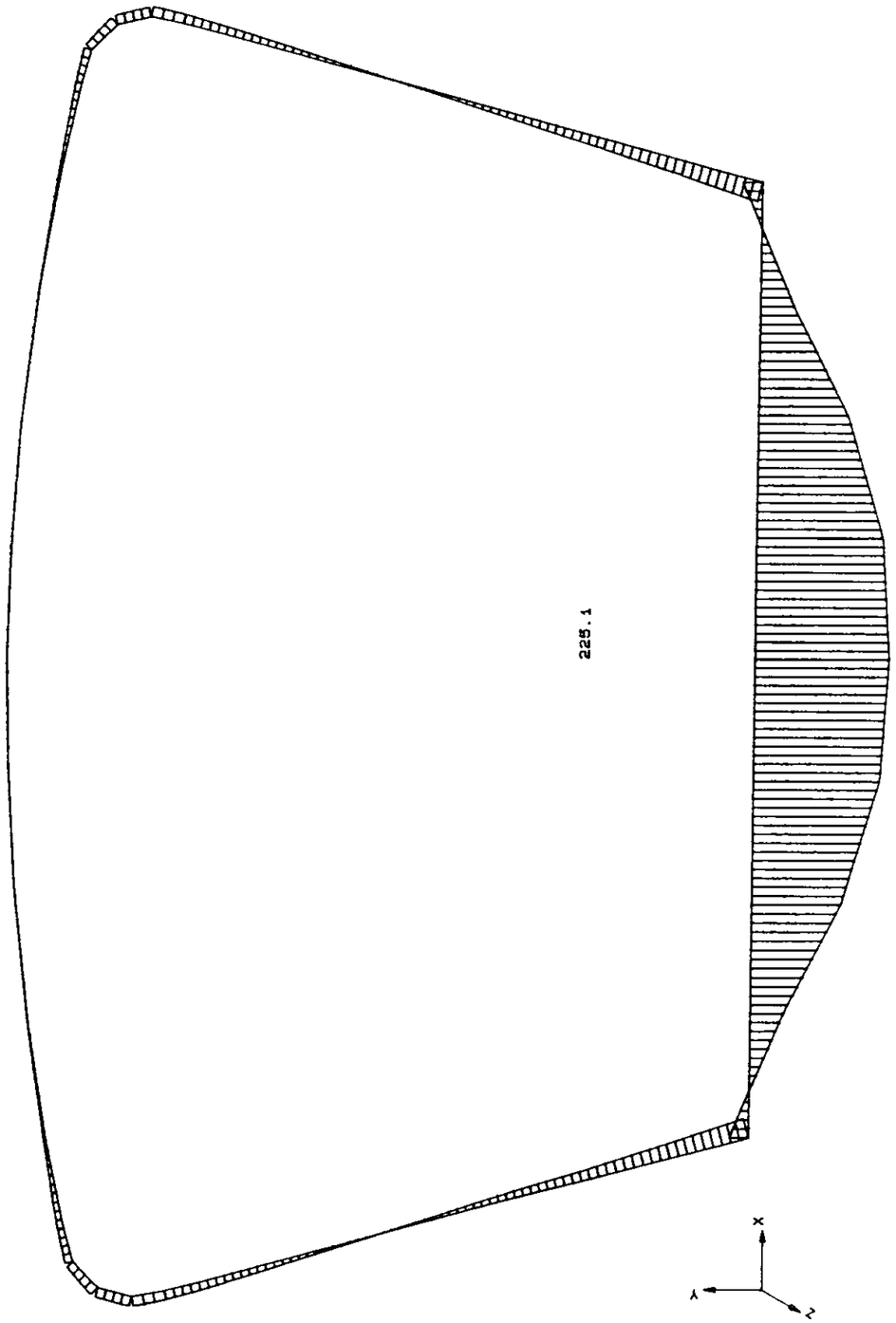
```
comp 3 1.35 13 a 14 1.35 17
inco 4 a 12 1.35
maxi fuer y
hipo 50 min fy (G-II) (e.l.u)
fija 15 1.35 16
comp 3 1.35 13 a 14 1.35 17
inco 4 a 12 1.35
mini fuer y
hipo 51 max mz (G-II) (e.l.u)
fija 15 1.35 16
comp 3 1.35 13 a 14 1.35 17
inco 4 a 6 1.35 10 a 12 1.35
maxi mome z
hipo 52 min mz (G-II) (e.l.u)
fija 15 1.35 16
comp 3 1.35 13 a 14 1.35 17
inco 4 a 9 1.35
mini mome z
fin
```

Listado de resultados

Leyes de esfuerzos)

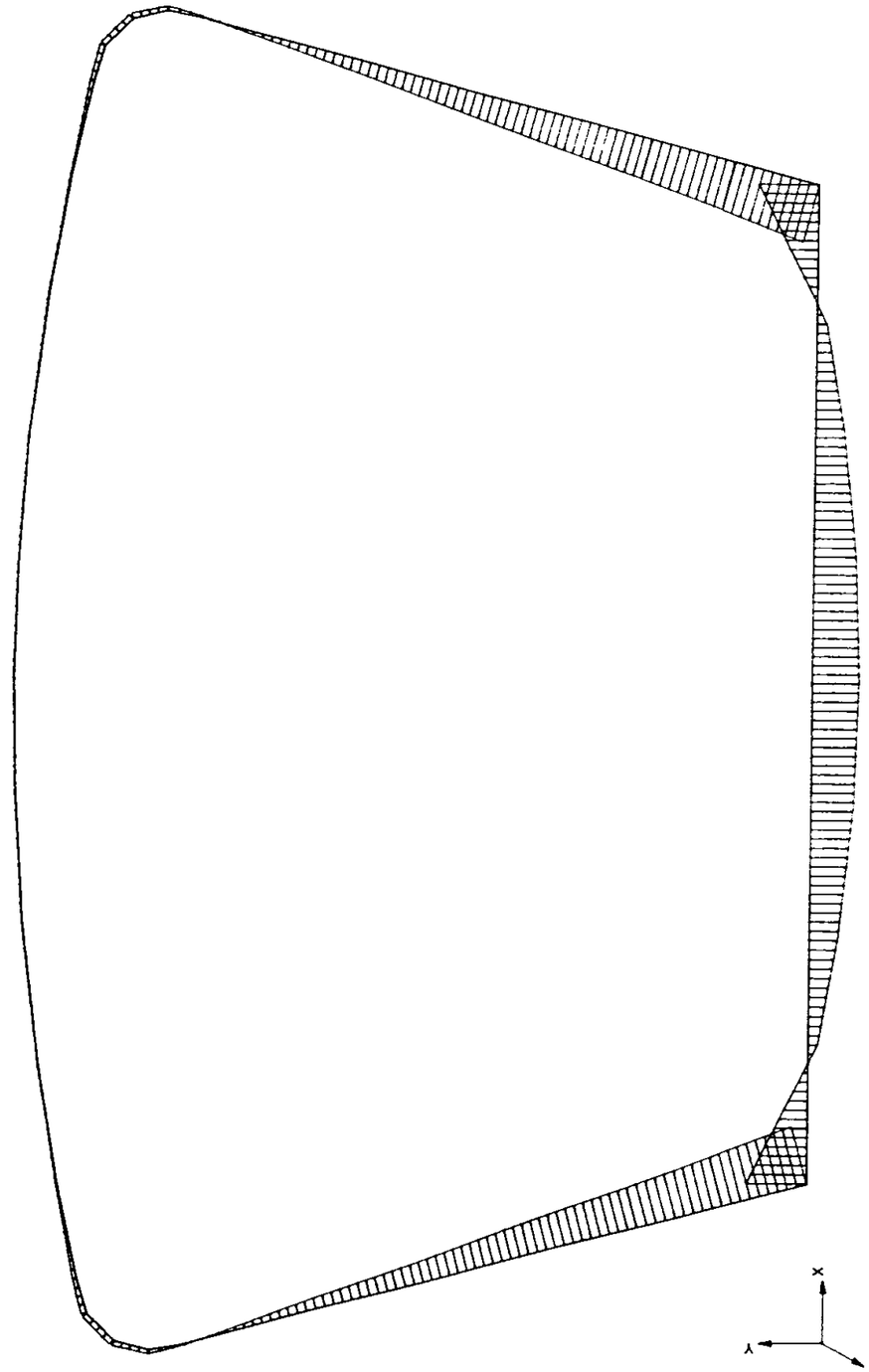
proc Seccion transversal (sin pretensado de almas)
min mz (G-I) (e.l.s)

mz 100.0

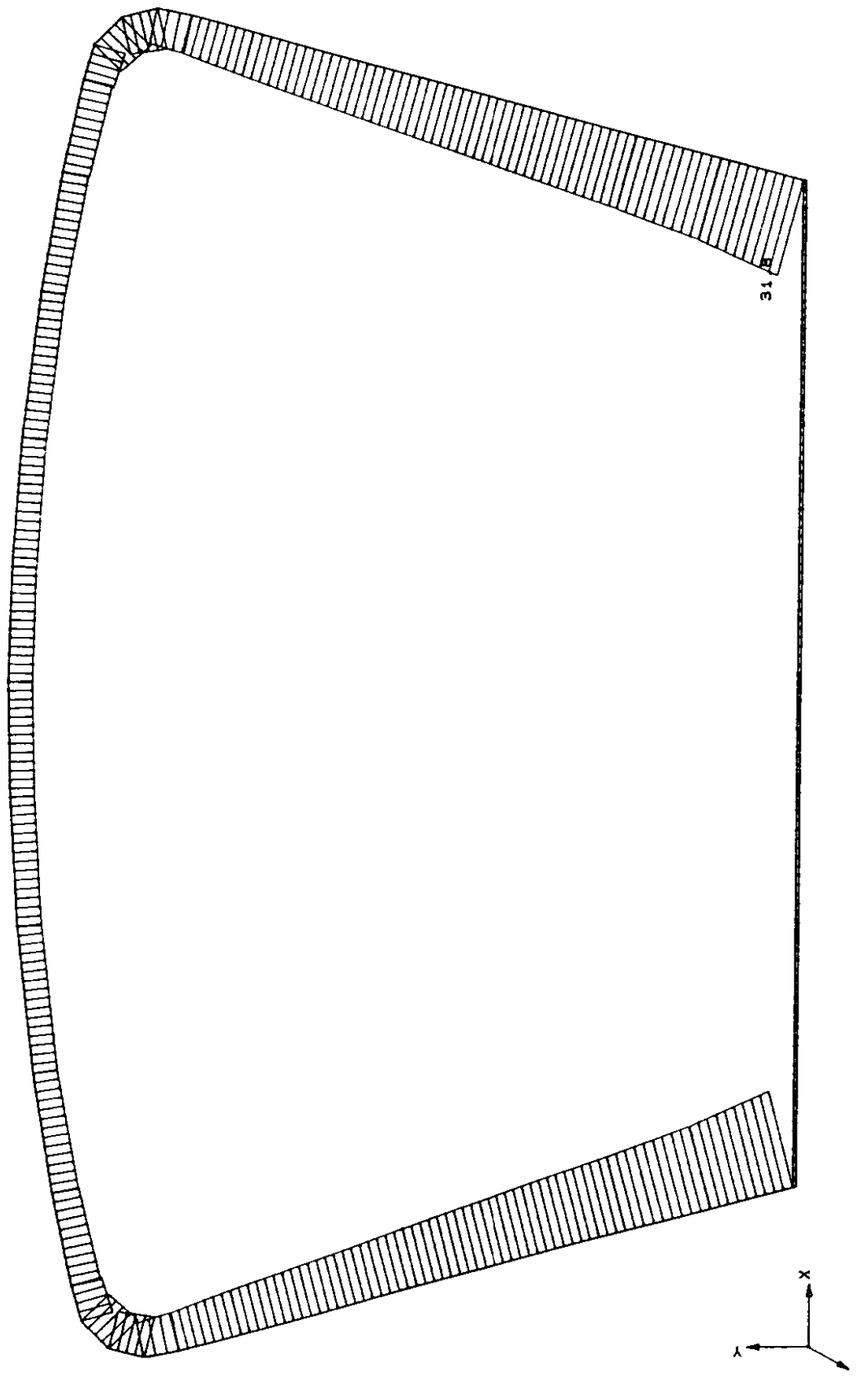


proc Seccion transversal (sin pretensado de almas)
max mz (G-I) (e.l.s)

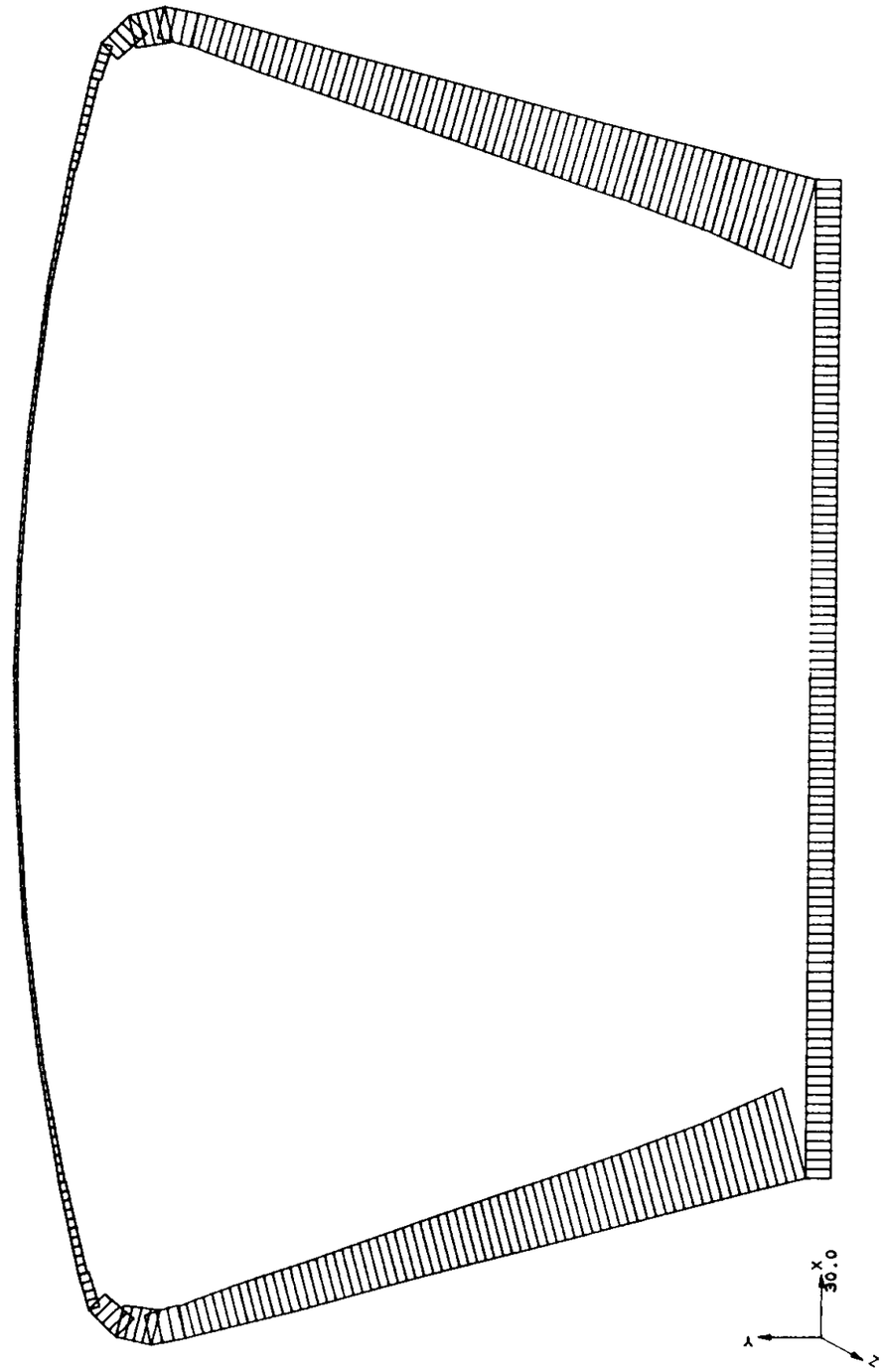
mz 1(



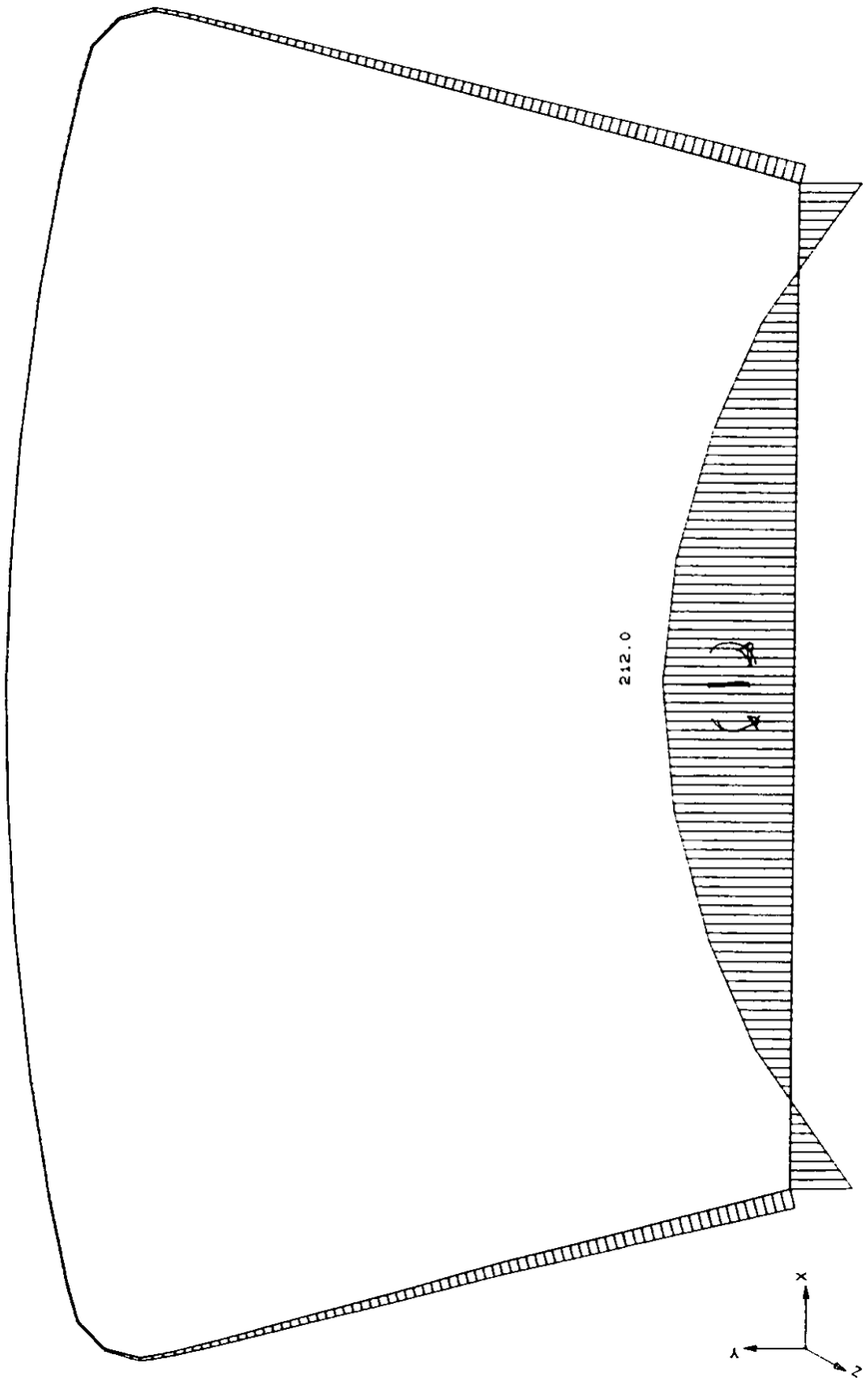
proc Seccion transversal (sin pretensado de almas)
max fx (G-I) (e.1.s) fx ;



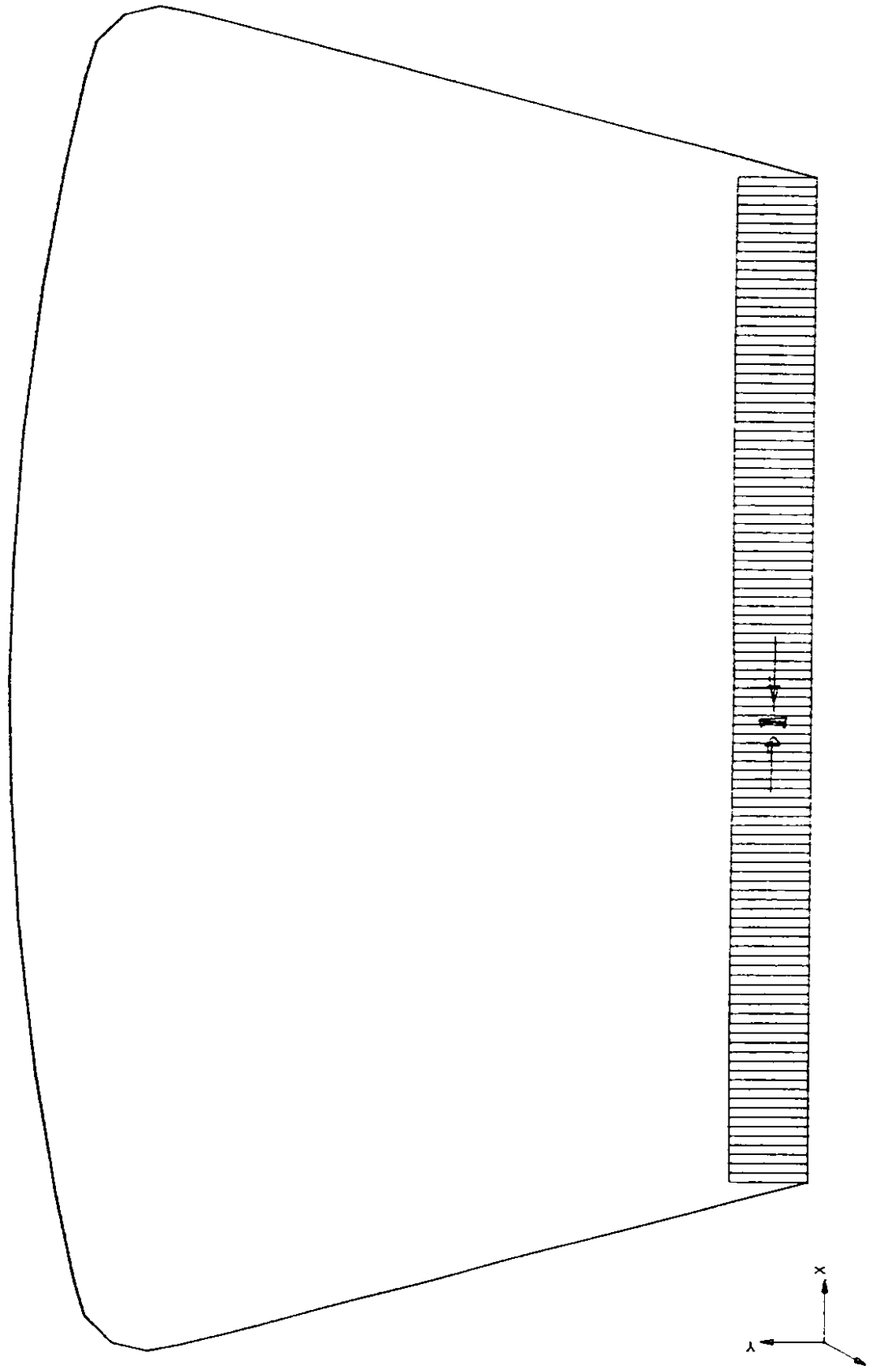
proc Seccion transversal (sin pretensado de almas)
min fx (G-I) (e.1.s) fx 20.0



proc Seccion transversal (sin pretensado de almas)
hipo 16 pretensado de nervio inferior (t=0) mz 100.0



proc Seccion transversal (sin pretensado de almas)
hipo 16 pretensado de nervio inferior (t=0) fx 3(



Estudio de las costillas inferiores

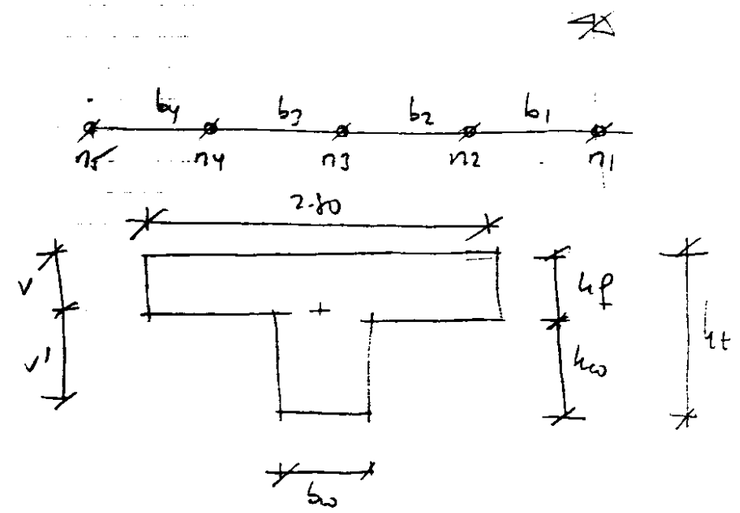
Puente Principal

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PROYECTO_____

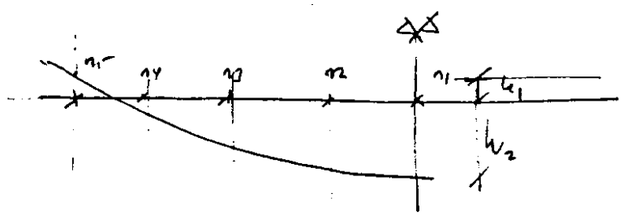
HOJA_____ DE _____
FECHA _____

CARACTERÍSTICAS MECÁNICAS DE LAS VIGAS

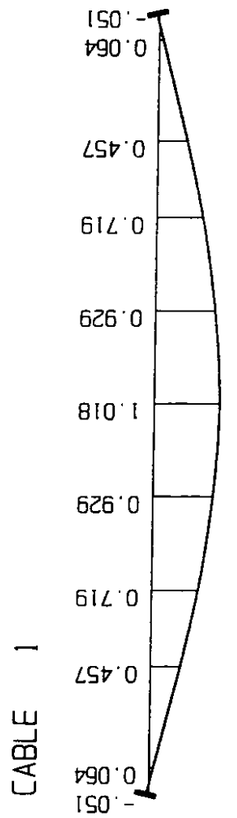


Nudo	hf	hw	bw	A	Iz	v	v'	ht
n1	0.392	0.75	0.500	1.5107	0.1273	0.349	0.793	1.142
n2	0.363	0.70	0.507	1.4045	0.1034	0.326	0.737	1.063
n3	0.332	0.55	0.527	1.2393	0.0602	0.275	0.607	0.882
n4	0.308	0.35	0.553	1.0626	0.0262	0.216	0.442	0.658
n5	0.500	0.	0.	1.400	0.0292	0.250	0.250	0.500

GEOMETRÍA DEL CABLE DEL PRETENSADO DE LA VIGA



Nudo	d	u_2	u_1	u_1+u_2
–	-0.462	-0.212	0.161	-0.051
n5		-0.097	0.161	0.064
n4		0.303	0.154	0.457
n3		0.541	0.178	0.719
n2		0.721	0.208	0.929
n1		0.780	0.238	1.018



estr Seccion transversal (intermedia con costilla)

==========

CABLE 1 BARRAS 31 A 4 TESADO I.D. AREA 0.002850

FUERZA DE TESADO 385.00
FUERZA DE ANCLAJE 385.00
COEFICIENTE DE REDUCCION DE TENSION POR PERDIDAS ELASTICAS 0.9999
(NO ESTA APLICADO EN ESTE LISTADO PERO SI QUE LO ESTA EN LOS ESFUERZOS DE PRETENSADO)

LONGITUD = 12.836 ALARGAMIENTO = 0.0858
(ESTE ALARGAMIENTO ES EL RESULTANTE ANTES DE ANCLAR EL CABLE)

TIRANDO PRIMERO A LA IZQ. ALARG. IZQ.= 0.0829 ALARG. DCHA.= 0.0029
TIRANDO PRIMERO DE LA DCHA. ALARG. DCHA.= 0.0825 ALARG. IZQ.= 0.0032
ESTOS ALARGAMIENTOS ESTAN CALCULADOS ANTES DE ANCLAR

LA PENETRACION AL ANCLAR (IZDA.) ES = 0.0000
LA PENETRACION AL ANCLAR (DCHA.) ES = 0.0000
INCLUYENDO UNA PENETRACION DE CUNAS DE 0.0050

	X	Y	FUERZA	ANGULO
1	0.000	0.064	380.773	13.9551
2	1.619	0.457	382.718	13.1480
3	2.846	0.719	378.249	10.3515
4	4.354	0.929	371.406	5.9028
5	5.850	1.018	368.758	0.0000
6	7.346	0.929	371.406	-5.9028
7	8.854	0.719	378.249	-10.3515
8	10.081	0.457	382.718	-13.1480
9	11.700	0.064	380.773	-13.9551

DATOS DE PRETENSADO PARA EL PROGRAMA SICAL

==========

hipo 16 pretensado de nervio inferior (t=0)
pretensado
* cable 1 unidades 1

31	380.73	382.68	0.000	0.000	0.1860	-0.2410	-0.0305
32	382.68	378.21	0.000	0.000	-0.2410	-0.4440	-0.3503
33	378.21	371.37	0.000	0.000	-0.4440	-0.6030	-0.5384
34	371.37	362.72	0.000	0.000	-0.6030	-0.6690	-0.6553
1	362.72	371.37	0.000	0.000	-0.6690	-0.6030	-0.6553
2	371.37	378.21	0.000	0.000	-0.6030	-0.4440	-0.5384
3	378.21	382.68	0.000	0.000	-0.4440	-0.2410	-0.3503
4	382.68	380.73	0.000	0.000	-0.2410	0.1860	-0.0305

ESFUERZOS ISOSTATICOS FINALES

==========

NUDO	AXIL	MOMENTO	E=M/N	ANGULO	CORTANTE
10	380.73	70.82	0.186	13.955	-91.82
12	382.68	-92.23	-0.241	13.148	-87.05
13	378.21	-167.93	-0.444	10.352	-67.96
15	371.37	-223.94	-0.603	5.903	-38.19
17	362.72	-242.66	-0.669	0.000	0.00
20	371.37	-223.94	-0.603	-5.903	38.19
22	378.21	-167.93	-0.444	-10.352	67.96
23	382.68	-92.23	-0.241	-13.148	87.05
25	380.73	70.82	0.186	-13.955	91.82

PREDIMENSIONAMIENTO DE LOS CABLES DE PRETENSADO

a) Sección Centro

- Características resistentes

$A = 1.5107$ $\quad v = 0.349$ $\quad \rho^2/v = 0.241$

$I = 0.1273$ $\quad v' = 0.793$ $\quad \rho^2/v' = 0.106$

- $e_{inf} = h_1 + h_2 - v = 0.78 + 0.278 - 0.349 = 0.669$

- $M_{max} = 225.1$

$$P_\infty = \frac{M_{max}}{\rho^2/v' + e_{inf}} = \frac{225.1}{0.106 + 0.669} = 290.4\ T$$

$$P_0 = \frac{P_\infty}{0.85} = 342\ T \Rightarrow \underline{1\ cable\ 19\ \phi\ 0.6''}$$

b) Sección extremo

$M_{ext} = -190.1\ T$ $\quad P_\infty = 0.85 \cdot 38 = 328\ T$

$$\rho^2/v + e_{sup} = \frac{190}{328} = 0.21 \rightarrow e_{sup} = 0.21 - 0.0834 = 0.2266$$

$$\rho^2/v = \frac{I}{Av} \cdot \frac{0.0282}{1.40 \cdot 0.24} = 0.0834$$

Tensión en vacío 1.72 $\quad e' = 0.85 \cdot 0.2266 = 0.193$

CALCULO DE LAS PERDIDAS DIFERIDAS DE PRETENSADO

Caracteristicas del cable 19 ϕ 0.6" R.2

$\sigma_0 = 0.75 f_{pu} = 385\ T$

$A_p = 0.00285\ m^2$

$E_p = 19 \cdot 10^6\ T/m^2$

a) Perdidas por retracción

$$\Delta P_{sf} = \varepsilon_{cs} E_p A_p$$

$\varepsilon_{cs} = \beta_{cs} \varepsilon_{s1} \varepsilon_{s2}$

- Atmosfera humedad media: $\varepsilon_{s1} = -32 \cdot 10^{-5}$ $\alpha = 1.50$

  $\varepsilon_{s2} = 0.75$

- $e = \alpha \frac{2A}{u}$

  $A = 1510\ cm^2$ $u = 2 \cdot 2.80 + 2 \cdot 0.75 = 7.10$ $e = 150 \frac{2 \cdot 1511}{7.10} = 0.64 = 640\ mm.$

$\varepsilon_{cs} = 1 \cdot 0.75 \cdot (-32 \cdot 10^{-5}) = -24 \cdot 10^{-5}$

$\Delta P_{sf} = 24 \cdot 10^{-5} \cdot 19 \cdot 10^6 \cdot 0.00285 = 13\ T$

b) Pérdidas por fluencia

$$\Delta P_{cf} = \varphi_\infty \cdot \sigma_{cgp} \frac{E_p}{E_c} A_p$$

$\varphi_\infty = \beta_{a(j)} + \varphi_{01} \varphi_{02} (\beta_\infty - \beta_j) + 0.4 \beta'_\infty$

- $\beta_{a(j)} = 0.8 \left(1 - \frac{f_j}{f_\infty}\right) = 0.8 \cdot 0.6 = 0.48.$

  $j = 10$ $\frac{f_j}{f_\infty} = 0.40$

- Atmósfera de humedad media: $\varphi_{01} = 2.0$ $\alpha = 1.50 \Rightarrow e = 640\ mm.$

  $\varphi_{02} = 1.30.$

  $\beta_{10} = 0.12$ $\beta_\infty = 1.$ $\beta'_\infty = 1$

$\varphi_\infty = 0.48 + 1.30 \cdot 2 \cdot (1 - 0.12) + 0.4 = 3.17$

$\sigma_{cgp} = \frac{385}{1.24} = 310\ T/m^2$

$E_c = 9.5 (60+8)^{1/3} = 38.77\ GPa$

$\Delta P_{cf} = 3.17 \cdot 310 \cdot \frac{19}{3.9} \cdot 0.00285 = 13.64\ T$

c) Pérdidas por relajación del cero

Al emplear un cero de tipo R.2, la relajación a las 1000 h y a una temperatura media del 20% es del 2%

$\rho_{1000} = 3 \rho_{1m} = 6\%$ (7C-90)

$\Delta P_{rf} = \rho_f [P_{ri} - 2(\Delta P_{sf} + \Delta P_{cf})] = \frac{6}{100} [0.95 \cdot 385 - 2(13.64 + 13)]$

$= \frac{6}{100} \cdot 312.47 = 18.74\ T$

Las pérdidas de fuerza totales:

$\Delta P_{to} = 13.0 + 13.54 + 18.74 = 45.38$ T

$\sum \Delta P = \frac{45.38}{387} = 0.12$

DATOS PARA EL FICHERO DIZMATEV

	n1	n2	n3	n4	n5
A	1.5107	1.404	1.2393	1.0626	1.4000
Iz	0.1273	0.1034	0.0602	0.0262	0.0282
Y	0.249	0.226	0.275	0.216	0.250
v'	0.793	0.737	0.607	0.442	0.250
bw	0.500	0.507	0.577	0.553	0.50
d	1.042	0.963	0.782	0.558	0.400
de					
he					
u					
L1					
H1					
L2					
H2					
T					
CC					
Si					
Yi					
αi					
16', 3					

Calculo de tensiones
(sin pretensado de almas)

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 33

p.p. + pret (t=0)

ESFUERZOS EN BARRAS — TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	372.933	-73.915	-75.692	91.44	-38.17
31	12	-376.084	73.025	-57.004	-11.62	131.55
32	12	376.084	-73.025	57.004	-11.62	131.55
32	13	-375.491	57.486	-117.352	-23.30	148.63
33	13	375.491	-57.486	117.352	-23.30	148.63
33	15	-372.835	32.721	-162.892	-24.82	142.64
34	15	372.835	-32.721	162.892	-24.82	142.64
34	17	-366.158	0.000	-178.712	-24.76	135.56
1	17	366.158	0.000	178.712	-24.76	135.56
1	20	-372.835	-32.721	-162.892	-24.82	142.64
2	20	372.835	32.721	162.892	-24.82	142.64
2	22	-375.491	-57.486	-117.352	-23.30	148.63
3	22	375.491	57.486	117.352	-23.30	148.63
3	23	-376.084	-73.025	-57.004	-11.62	131.55
4	23	376.084	73.025	57.004	-11.62	131.55
4	25	-372.933	-73.915	75.692	91.44	-38.17

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 34

carga permanente + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	371.806	-57.921	-65.532
31	12	-374.956	60.373	-43.363
32	12	374.956	-60.373	43.363
32	13	-374.364	48.506	-90.432
33	13	374.364	-48.505	90.432
33	15	-371.708	28.247	-125.832
34	15	371.708	-28.247	125.832
34	17	-365.031	0.000	-138.305
1	17	365.031	0.000	138.305
1	20	-371.708	-28.247	-125.832
2	20	371.708	28.247	125.832
2	22	-374.364	-48.506	-90.432
3	22	374.364	48.506	90.432
3	23	-374.956	-60.373	-43.363
4	23	374.956	60.373	43.363
4	25	-371.806	-57.921	65.532

TENSIONES

SIG SUP	SIG INF
82.66	-29.55
-0.48	108.43
-0.48	108.43
-11.10	121.40
-11.10	121.40
-13.22	116.15
-13.22	116.15
-13.76	110.31
-13.76	110.31
-13.22	116.15
-13.22	116.15
-11.10	121.40
-11.10	121.40
-0.48	108.43
-0.48	108.43
82.66	-29.55

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 35

max Mz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	364.926	30.321	-3.526
31	12	-374.956	60.373	-43.363
32	12	374.956	-60.373	43.363
32	13	-374.364	48.506	-90.432
33	13	374.364	-48.505	90.432
33	15	-371.708	28.247	-125.832
34	15	371.708	-28.247	125.832
34	17	-365.031	0.000	-138.305
1	17	365.031	0.000	138.305
1	20	-371.708	-28.247	-125.832
2	20	371.708	28.247	125.832
2	22	-374.364	-48.506	-90.432
3	22	374.364	48.506	90.432
3	23	-374.956	-60.373	-43.363
4	23	374.956	60.373	43.363
4	25	-364.926	30.344	3.526

TENSIONES

SIG SUP	SIG INF
29.09	23.05
-0.48	108.43
-0.48	108.43
-11.10	121.40
-11.10	121.40
-13.22	116.15
-13.22	116.15
-13.76	110.31
-13.76	110.31
-13.22	116.15
-13.22	116.15
-11.10	121.40
-11.10	121.40
-0.48	108.43
-0.48	108.43
29.08	23.05

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 36

min nz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	371.806	-57.921	-65.532	82.66	-29.55
31	12	-370.812	8.189	4.623	38.70	27.08
32	12	370.812	-8.189	-4.623	38.70	27.08
32	13	-370.220	10.196	15.679	37.04	14.07
33	13	370.220	-10.196	-15.680	37.04	14.07
33	15	-367.564	14.354	19.619	32.35	12.18
34	15	367.564	-14.354	-19.619	32.35	12.18
34	17	-360.887	0.007	13.100	27.48	15.72
1	17	360.887	-0.007	-13.100	27.48	15.72
1	20	-367.564	-14.365	19.620	32.35	12.18
2	20	367.564	14.365	-19.620	32.35	12.18
2	22	-370.220	-10.207	15.697	37.05	14.05
3	22	370.220	10.207	-15.697	37.05	14.05
3	23	-370.813	-8.175	4.645	38.71	27.05
4	23	370.812	8.175	-4.645	38.71	27.05
4	25	-371.806	-57.921	65.532	82.66	-29.55

TENSIONES

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 37

carga permanente + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	327.058	-46.903	-53.607	69.26	-22.53
31	12	-329.830	49.928	-36.264	1.13	92.21
32	12	329.830	-49.928	36.264	1.13	92.21
32	13	-329.309	40.350	-74.287	-7.36	101.48
33	13	329.309	-40.350	74.287	-7.36	101.48
33	15	-326.972	23.664	-102.780	-9.13	96.53
34	15	326.972	-23.664	102.780	-9.13	96.53
34	17	-321.096	0.000	-112.863	-9.69	91.56
1	17	321.096	0.000	112.863	-9.69	91.56
1	20	-326.972	-23.664	-102.780	-9.13	96.53
2	20	326.972	23.664	102.780	-9.13	96.53
2	22	-329.309	-40.350	-74.287	-7.36	101.48
3	22	329.309	40.350	74.287	-7.36	101.48
3	23	-329.830	-49.928	-36.264	1.13	92.21
4	23	329.830	49.928	36.264	1.13	92.21
4	25	-327.058	-46.903	53.607	69.26	-22.53

TENSIONES

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 38

max nz + pret(t=inf.)

BARRA	NUDO	ESFUERZOS EN BARRAS AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	320.178	41.339	8.399	15.68	30.06
31	12	-329.830	49.928	-36.264	1.13	92.21
32	12	329.830	-49.928	36.264	1.13	92.21
32	13	-329.309	40.350	-74.287	-7.36	101.48
33	13	329.309	-40.350	74.287	-7.36	101.48
33	15	-326.972	23.664	-102.780	-9.13	96.53
34	15	326.972	-23.664	102.780	-9.13	96.53
34	17	-321.096	0.000	-112.863	-9.69	91.56
1	17	321.096	0.000	112.863	-9.69	91.56
1	20	-326.972	-23.664	-102.780	-9.13	96.53
2	20	326.972	23.664	102.780	-9.13	96.53
2	22	-329.309	-40.350	-74.287	-7.36	101.48
3	22	329.309	40.350	74.287	-7.36	101.48
3	23	-329.830	-49.928	-36.264	1.13	92.21
4	23	329.830	49.928	36.264	1.13	92.21
4	25	-320.178	41.362	-8.399	15.68	30.06

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 39

min nz + pret(t=inf.)

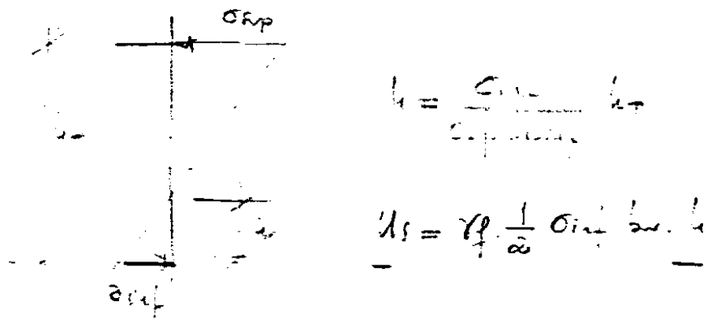
BARRA	NUDO	ESFUERZOS EN BARRAS AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	327.058	-46.903	-53.607	69.26	-22.53
31	12	-325.687	-2.257	11.723	40.30	10.86
32	12	325.687	2.257	-11.723	40.30	10.86
32	13	-325.165	2.041	31.825	40.78	-5.85
33	13	325.165	-2.041	-31.825	40.78	-5.85
33	15	-322.828	9.771	42.671	36.43	-7.44
34	15	322.828	-9.771	-42.671	36.43	-7.44
34	17	-316.952	0.007	38.541	31.54	-3.03
1	17	316.952	-0.007	-38.541	31.54	-3.03
1	20	-322.828	-9.782	42.672	36.43	-7.44
2	20	322.828	9.782	-42.672	36.43	-7.44
2	22	-325.165	-2.052	31.842	40.79	-5.86
3	22	325.165	2.052	-31.842	40.79	-5.86
3	23	-325.687	2.270	11.744	40.32	10.83
4	23	325.687	-2.271	-11.744	40.32	10.83
4	25	-327.058	-46.903	53.607	69.26	-22.53

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO_____

HOJA_____ DE _____
FECHA _____

CALCULO DE LA ARMADURA DE ROTURA DE TRACCIÓN



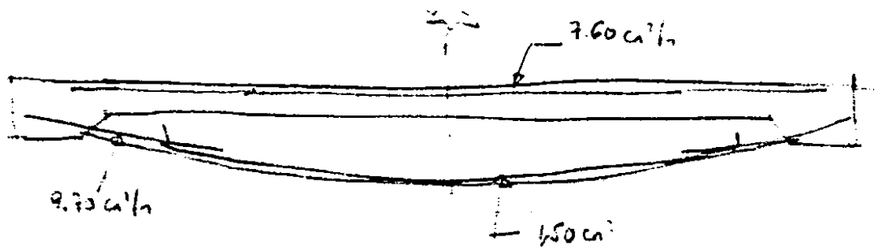
$$h = \frac{\sigma_{inf}}{\sigma_{sup} + \sigma_{inf}} \cdot h_T$$

$$U_s = \gamma_f \cdot \frac{1}{\alpha} \cdot \sigma_{inf} \cdot b_w \cdot h$$

Kp/cm²

Hipótesis	Sección	σsup	σinf	h	h_T	b_w	U_s (T)
pp + pret (t=0)	n_0	91.44	-38.17	0.15	0.500	2.80	120.23
	n_1	-24.76	35.56	0.18	1.142	2.80	93.60
sin n2 + pret (t=∞)	n_2	36.45	-7.44	0.18	1.063	0.51	5.12

El armado se resuelve con cuantía mínima



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PROYECTO_____

HOJA_____ DE _____
FECHA _____

CONCLUSIONES RESPECTO AL SISTEMA DE TENSADO

- La gran oscilación de los esfuerzos de flexión debido a las particularidades de un tablero de PPCC hace que aparezcan tracciones tanto en la fibra superior como inferior.

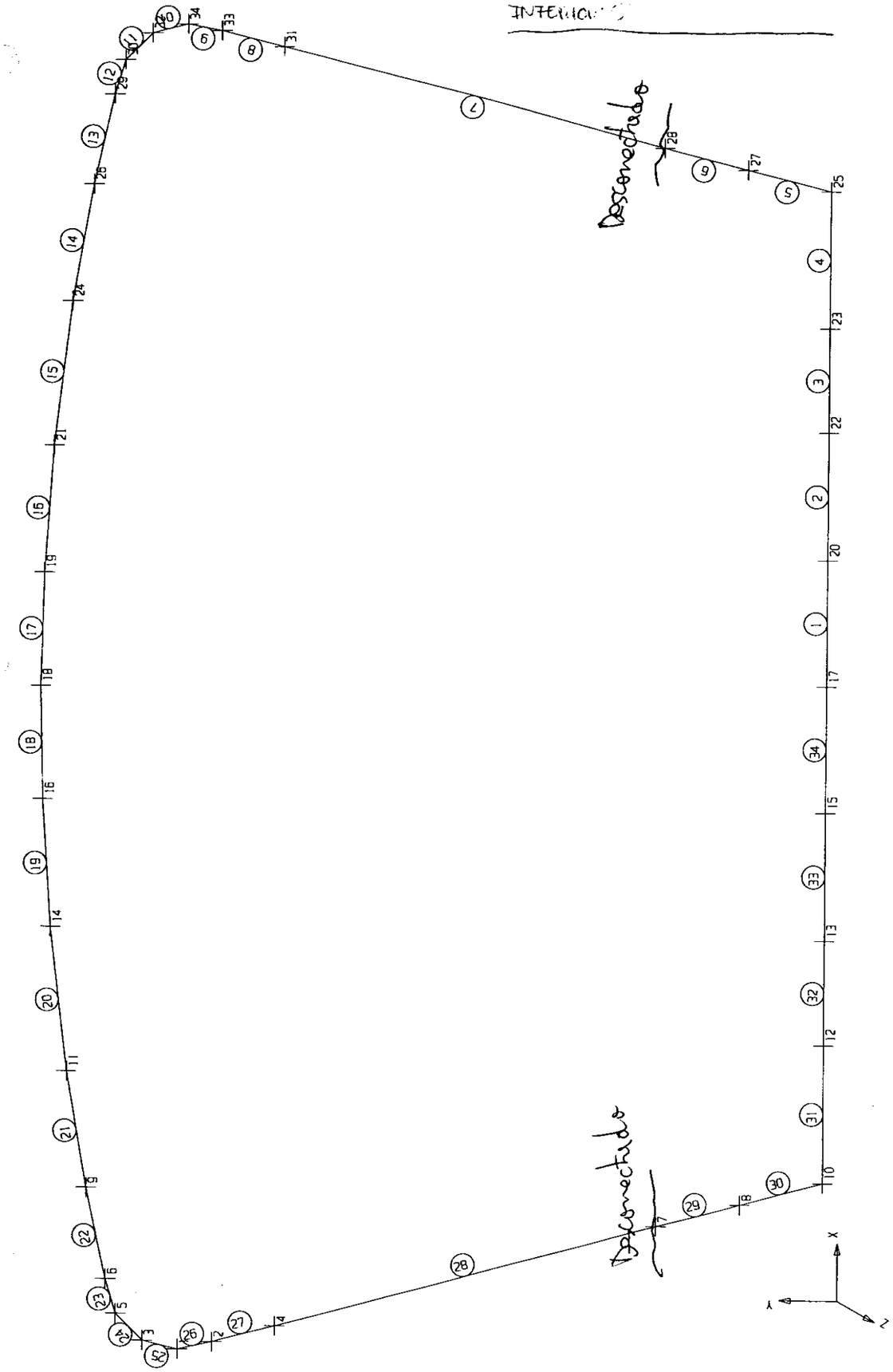
  - Desde la importancia de la carga variable, es importante el control de la hipótesis constructiva de tesado de cables sin esta incorporada la carga variable

  - No es aprovechado el tesado en varias etapas del pretensado, ya que las tracciones se controlan con armadura pasiva

Vanos de Acceso

Seccion transversal (intermedia con costilla)

AGRANDAR DE COSTILLAS INTERIORES



CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO_____

HOJA_____ DE _____
FECHA _____

GEOMETRIA DE CHAPA DE LA VIGA

Nudo	d	h
-	-0,1462	0,026
		0,1911
		0,2911
		0,719
		0,959
		1,018

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 33

p.p. + pret (t=0)

		ESFUERZOS EN BARRAS			TENSIONES	
BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	369.471	-74.993	-38.515	59.37	-6.58
31	12	-371.813	69.735	-96.758	-44.79	198.21
32	12	371.813	-69.735	96.758	-44.79	198.21
32	13	-370.824	49.192	-147.777	-37.50	178.93
33	13	370.824	-49.193	147.778	-37.50	178.93
33	15	-367.412	23.498	-181.438	-31.05	155.47
34	15	367.412	-23.498	181.438	-31.05	155.47
34	17	-362.291	0.000	-187.146	-27.33	140.56
1	17	362.291	0.000	187.146	-27.33	140.56
1	20	-367.893	-23.536	-181.743	-31.12	155.72
2	20	367.893	23.536	181.743	-31.12	155.72
2	22	-371.310	-49.270	-148.022	-37.65	179.22
3	22	371.310	49.270	148.022	-37.65	179.22
3	23	-372.300	-69.845	-96.916	-44.88	198.52
4	23	372.300	69.845	96.916	-44.88	198.52
4	25	-369.471	-74.993	38.515	59.37	-6.58

19 do.6"

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 34

carga permanente + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	SIG SUP	SIG INF
31	10	369.471	-58.999	-38.515	59 37	-6.58
31	12	-371.813	57.084	-72.957	-25.17	158.06
32	12	371.813	-57.083	72.957	-25.17	158 06
32	13	-370.824	40.211	-110.697	-20.64	141.55
33	13	370.824	-40.212	110.698	-20.64	141.55
33	15	-367.412	19.024	-134.218	-16.17	121 82
34	15	367.412	-19.023	134.219	-16.17	121.82
34	17	-362.291	0.000	-136.578	-13.47	109.06
1	17	362.291	0.000	136.579	-13.47	109.06
1	20	-367.893	-19.062	-134.523	-16.23	122.07
2	20	367.893	19.061	134.523	-16.23	122 07
2	22	-371.310	-40.290	-110.942	-20.71	141.83
3	22	371.310	40.290	110.942	-20.71	141.83
3	23	-372.300	-57.193	-73.115	-25.25	158.37
4	23	372.300	57.193	73.115	-25.25	158.37
4	25	-369.471	-58.999	38.515	59.37	-6.58

TENSIONES

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 35

max mz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	SIG SUP	SIG INF
31	10	369.471	29.243	-38.514	59.37	-6.58
31	12	-371.813	57.084	-72.957	-25.17	158.06
32	12	371.813	-57.083	72.957	-25.17	158.06
32	13	-370.824	40.211	-110.697	-20.64	141.55
33	13	370.824	-40.212	110.698	-20.64	141.55
33	15	-367.412	19.024	-134.218	-16.17	121.82
34	15	367.412	-19.023	134.219	-16.17	121.82
34	17	-362.291	0.000	-136.578	-13.47	109.06
1	17	362.291	0.000	136.579	-13.47	109.06
1	20	-367.893	-19.062	-134.523	-16.23	122.07
2	20	367.893	19.061	134.523	-16.23	122.07
2	22	-371.310	-40.290	-110.942	-20.71	141.83
3	22	371.310	40.290	110.942	-20.71	141.83
3	23	-372.300	-57.193	-73.115	-25.25	158.37
4	23	372.300	57.193	73.115	-25.25	158.37
4	25	-369.471	29.266	38.514	59.37	-6.58

TENSIONES

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 36

min mz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	369.471	-58.999	-38.515	59.37	-6.58
31	12	-371.813	4.899	12.373	45.18	14.10
32	12	371.813	-4.899	-12.373	45.18	14.10
32	13	-370.824	1.902	32.758	44.89	-3.10
33	13	370.824	-1.902	-32.758	44.89	-3.10
33	15	-367.412	5.131	48.577	41.47	-8.47
34	15	367.412	-5.130	-48.576	41.47	-8.47
34	17	-362.291	0.006	52.169	38.28	-8.52
1	17	362.291	-0.007	-52.169	38.28	-8.52
1	20	-367.893	-5.179	48.273	41.40	-8.22
2	20	367.893	5.179	-48.272	41.40	-8.22
2	22	-371.310	-1.991	32.530	44.83	-2.83
3	22	371.310	1.991	-32.530	44.83	-2.83
3	23	-372.300	-4.995	12.237	45.11	14.38
4	23	372.300	4.995	-12.237	45.11	14.38
4	25	-369.471	-58.999	38.515	59.37	-6.58

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 37

carga permanente + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	325.135	-47.852	-33.682	52.06	-5.61
31	12	-327.195	47.033	-58.456	-17.41	129.40
32	12	327.195	-47.033	58.456	-17.41	129.40
32	13	-326.326	33.052	-88.270	-13.98	115.34
33	13	326.326	-33.052	88.270	-13.98	115.34
33	15	-323.323	15.548	-106.310	-10.51	98.79
34	15	323.323	-15.547	106.310	-10.51	98.79
34	17	-318.816	0.000	-107.494	-8.37	88.06
1	17	318.816	0.000	107.494	-8.37	88.06
1	20	-323.746	-15.581	-106.578	-10.56	99.01
2	20	323.746	15.581	106.578	-10.56	99.01
2	22	-326.753	-33.120	-88.486	-14.05	115.59
3	22	326.753	33.120	88.486	-14.05	115.59
3	23	-327.624	-47.129	-58.595	-17.49	129.67
4	23	327.624	47.129	58.595	-17.49	129.67
4	25	-325.135	-47.851	33.682	52.06	-5.61

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 38

max nz + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	325.135	40.390	-33.681	52.06	-5.61
31	12	-327.195	47.033	-58.456	-17.41	129.40
32	12	327.195	-47.033	58.456	-17.41	129.40
32	13	-326.326	33.052	-86.270	-13.98	115.34
33	13	326.326	-33.052	88.270	-13.98	115.34
33	15	-323.323	15.548	-106.310	-10.51	98.79
34	15	323.323	-15.547	106.310	-10.51	98.79
34	17	-318.816	0.000	-107.494	-8.37	88.06
1	17	318.816	0.000	107.494	-8.37	88.06
1	20	-323.746	-15.581	-106.578	-10.56	99.01
2	20	323.746	15.581	106.578	-10.56	99.01
2	22	-326.753	-33.120	-88.486	-14.05	115.59
3	22	326.753	33.120	88.486	-14.05	115.59
3	23	-327.624	-47.129	-58.595	-17.49	129.67
4	23	327.624	47.129	58.595	-17.49	129.67
4	25	-325.135	40.414	33.681	52.06	-5.61

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 39

min nz + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	325.135	-47.852	-33.682	52.06	-5.61
31	12	-327.195	-5.152	26.874	52.94	-14.56
32	12	327.195	5.152	-26.874	52.94	-14.56
32	13	-326.326	-5.258	55.185	51.55	-29.31
33	13	326.326	5.258	-55.185	51.55	-29.31
33	15	-323.323	1.655	76.485	47.13	-31.50
34	15	323.323	-1.654	-76.485	47.13	-31.50
34	17	-318.816	0.006	81.254	43.38	-29.52
1	17	318.816	-0.007	-81.254	43.38	-29.52
1	20	-323.746	-1.698	76.218	47.07	-31.28
2	20	323.746	1.698	-76.218	47.07	-31.28
2	22	-326.753	5.170	54.987	51.49	-29.07
3	22	326.753	-5.170	-54.987	51.49	-29.07
3	23	-327.624	5.069	26.757	52.88	-14.32
4	23	327.624	-5.069	-26.756	52.88	-14.32
4	25	-325.135	-47.851	33.682	52.06	-5.61

```
estr Seccion transversal (intermedia con costilla)
nume de nudo   34
nume de barr   34
nume de hipo   14
nume de apoy    4
tipo port plan
list todo
coor de nudo
     1      -7.8207       7.5155
     2      -7.7400       7.1205
     3      -7.7191       7.9197
     4      -7.5493       6.4020 s
     5      -7.4052       8.2309
     6      -7.0008       8.3509
     7      -6.3615       1.9270
     8      -6.1049       0.9604
     9      -5.9339       8.5831
    10      -5.8500       0.0000 desp x y
    11      -4.5537       8.8192
    12      -4.2313       0.0000
    13      -3.0036       0.0000
    14      -2.8511       9.0225
    15      -1.4964       0.0000
    16      -1.3470       9.1228
    17       0.0000       0.0000
    18       0.0000       9.1571
    19       1.3470       9.1228
    20       1.4964       0.0000
    21       2.8511       9.0225
    22       3.0036       0.0000
    23       4.2313       0.0000
    24       4.5537       8.8192
    25       5.8500       0.0000 desp y
    26       5.9339       8.5831
    27       6.1049       0.9604
    28       6.3615       1.9270
    29       7.0008       8.3509
    30       7.4052       8.2309
    31       7.5493       6.4020 s
    32       7.7191       7.9197
    33       7.7400       7.1205
    34       7.8207       7.5155
inci de barr
     1    17    20
     2    20    22
     3    22    23
     4    23    25
     5    25    27
     6    27    28
     7    28    31
     8    31    33
     9    33    34
    10    34    32
    11    32    30
    12    30    29
    13    29    26
    14    26    24
    15    24    21
    16    21    19
    17    19    18
    18    18    16
    19    16    14
    20    14    11
    21    11     9
    22     9     6
    23     6     5
    24     5     3
    25     3     1
    26     1     2
    27     2     4
    28     4     7
    29     7     8
    30     8    10
    31    10    12
    32    12    13
    33    13    15
    34    15    17
libe de barr
 7 inic fuer x y mome z
28 fina fuer x y mome z
mate de barr
     1 a   34     1
prop de barr pris
         1 1.4624 0.5592 0.1185
         2 1.3276 0.5071 0.0828
         3 1.1563 0.4192 0.0421
         4 0.9590 0.2870 0.0131
         5 1.9200 1.6271 0.0655
         6 1.2000 1.0169 0.0160
         7 0.8800 0.7458 0.0117
  8 a 14 1.2000 1.0169 0.0160
15 a 20 0.0400 0.0339 0.0001
21 a 27 1.2000 1.0169 0.0160
        28 0.8800 0 7458 0.0117
        29 1.2000 1.0169 0.0160
        30 1.9200 1.6271 0.0655
        31 0.9590 0.2870 0.0131
        32 1.1563 0.4192 0.0421
        33 1.3276 0.5071 0.0828
        34 1.4624 0.5592 0.1185
cons de mate
     1 3677000. 1532000. 2.5
hipo 1 Peso Propio
gravedad
 1 a 34 0. -1.
hipo 2 Carga muerta
carg en barr
* balasto+traviesas+carriles
 1 a  3 fuer y unif -2.99
       4 fuer y unif -2 99 0. 0.5187
      31 fuer y unif -2.99 1.1000 0.
32 a 34 fuer y unif -2.99
* paseos
       4 fuer y unif -2.12 0.5187 1.3640
      31 fuer y unif -2.12 0.2550 1.1000
hipo 3 S.C  Unif. en paseos
```

```
carg en barr
      4 fuer y unif -1.50 0.5187 1.3640
     31 fuer y unif -1.50 0.2550 1.1000
hipo 4 S.C. Tren-B (via izquierda)
carg en barr
32 fuer y unif -16.20 0.3712 0.
33 fuer y unif -16.20
34 fuer y unif -16.20 0.  0.8580
hipo 5 S.C. Tren-B (via derecha)
carg en barr
 1 fuer y unif -16.20 0.6399 0.
 2 fuer y unif -16.20
 3 fuer y unif -16.20 0. 0.8580
hipo 6 S.C. Tren-B (dos vias)
carg en barr
 1 fuer y unif -16.20 0.6399 0.
 2 fuer y unif -16.20
 3 fuer y unif -16.20 0. 0.8580
32 fuer y unif -16.20 0.3712 0.
33 fuer y unif -16.20
34 fuer y unif -16.20 0. 0.8580
hipo 7 S.C. Tren-A (via izquierda) (mome +)
carg en barr
32 fuer y unif -13.500 0.3712 0.
33 fuer y unif -13.500
34 fuer y unif -13.500 0. 0.8580
hipo 8 S.C. Tren-A (via derecha) (mome +)
carg en barr
 1 fuer y unif -13.500 0.6399 0.
 2 fuer y unif -13.500
 3 fuer y unif -13.500 0. 0.8580
hipo 9 S.C. Tren-A (dos vias) (mome +)
carg en barr
 1 fuer y unif -13.500 0.6399 0.
 2 fuer y unif -13.500
 3 fuer y unif -13.500 0.  0.8580
32 fuer y unif -13.500 0.3712 0.
33 fuer y unif -13.500
34 fuer y unif -13.500 0. 0.8580
hipo 10 S.C. Tren-A (via izquierda) (mome -)
carg en barr
32 fuer y unif -27.000 0.3712 0.
33 fuer y unif -27.000
34 fuer y unif -27.000 0. 0.8580
hipo 11 S.C. Tren-A (via derecha) (mome -)
carg en barr
 1 fuer y unif -27.000 0.6399 0.
 2 fuer y unif -27.000
 3 fuer y unif -27.000 0. 0.8580
hipo 12 S.C. Tren-A (dos vias) (mome -)
carg en barr
 1 fuer y unif -27.000 0.6399 0.
 2 fuer y unif -27.000
 3 fuer y unif -27.000 0. 0.8580
32 fuer y unif -27.000 0.3712 0
33 fuer y unif -27.000
34 fuer y unif -27.000 0. 0.8580
hipo 13 viento X+
carg en barr
21 a 30 fuer y unif  0.6
hipo 14 viento X-
carg en barr
 5 a 14 fuer y unif  0.6
calc  y alma
2 2 2
```

proc Seccion transversal (sin pretensado de almas)

22 ϕ 0.6"

HIPOTESIS 33

p.p. + pret (t=0)

		ESFUERZOS EN BARRAS			TENSIONES	
BARRA	NUDO	AXIL	CORT Y	MOM Z	SIG SUP	SIG INF
31	10	424.981	-88.950	-44.566	68.51	-7.80
31	12	-427.111	82.192	-114.729	-54.41	233.73
32	12	427.111	-82.192	114.729	-54.41	233.73
32	13	-425.976	58.066	-175.574	-45.82	211.41
33	13	425.976	-58.066	175.574	-45.82	211.41
33	15	-422.056	27.806	-216.028	-38.07	184.02
34	15	422.056	-27.806	216.028	-38.07	184.02
34	17	-416.174	0.000	-223.193	-33.65	166.58
1	17	416.173	0.000	223.194	-33.65	166.58
1	20	-422.609	-27.850	-216.378	-38.14	184.31
2	20	422.609	27.850	216.378	-38.14	184.31
2	22	-426.534	-58.156	-175.855	-45.91	211.74
3	22	426.534	58.156	175.855	-45.91	211.74
3	23	-427.671	-82.318	-114.911	-54.50	234.09
4	23	427.671	82.318	114.911	-54.50	234.09
4	25	-424.981	-88.950	44.566	68.51	-7.80

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 34

carga permanente + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	424.981	-72.956	-44.566	68.51	-7.80
31	12	-427.111	69.541	-90.929	-34.78	193.58
32	12	427.111	-69.540	90.929	-34.78	193.58
32	13	-425.976	49.085	-138.494	-28.88	174.02
33	13	425.976	-49.085	138.494	-28.88	174.02
33	15	-422.056	23.332	-168.808	-23.18	150.36
34	15	422.056	-23.332	168.808	-23.18	150.36
34	17	-416.174	0.000	-172.626	-19.78	135.08
1	17	416.173	0.000	172.626	-19.78	135.08
1	20	-422.609	-23.376	-169.158	-23.25	150.65
2	20	422.609	23.376	169.158	-23.25	150.65
2	22	-426.534	-49.175	-138.775	-28.97	174.35
3	22	426.534	49.175	138.775	-28.97	174.35
3	23	-427.671	-69.667	-91.110	-34.88	193.94
4	23	427.671	69.667	91.110	-34.88	193.94
4	25	-424.981	-72.956	44.566	68.51	-7.80

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 35

max nz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	424.981	15.286	-44.565	68.51	-7.80
31	12	-427.111	69.541	-90.929	-34.78	193.58
32	12	427.111	-69.540	90.929	-34.78	193.58
32	13	-425.976	49.085	-138.494	-28.88	174.02
33	13	425.976	-49.085	138.494	-28.88	174.02
33	15	-422.056	23.332	-168.809	-23.18	150.36
34	15	422.056	-23.332	168.808	-23.18	150.36
34	17	-416.174	0.000	-172.626	-19.78	135.09
1	17	416.173	0.000	172.626	-19.78	135.08
1	20	-422.609	-23.376	-169.158	-23.25	150.65
2	20	422.609	23.376	169.158	-23.25	150.65
2	22	-426.534	-49.175	-138.775	-28.97	174.35
3	22	426.534	49.175	138.775	-28.97	174.35
3	23	-427.671	-69.667	-91.110	-34.88	193.94
4	23	427.671	69.667	91.110	-34.88	193.94
4	25	-424.981	15.309	44.565	68.51	-7.80

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 36

min nz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z
31	10	424.981	-72.956	-44.566
31	12	-427.111	17.356	-5.599
32	12	427.111	-17.355	5.599
32	13	-425.976	10.776	4.961
33	13	425.976	-10.776	-4.961
33	15	-422.056	9.439	13.987
34	15	422.056	-9.439	-13.987
34	17	-416.174	0.006	16.122
1	17	416.173	-0.007	-16.122
1	20	-422.609	-9.493	13.638
2	20	422.609	9.493	-13.637
2	22	-426.534	-10.876	4.697
3	22	426.534	10.877	-4.697
3	23	-427.671	-17.468	-5.759
4	23	427.671	17.468	5.759
4	25	-424.981	-72.956	44.566

TENSIONES

SIG SUP	SIG INF
68.51	-7.80
35.56	49.63
35.56	49.63
36.65	29.38
36.65	29.38
34.45	20.07
34.45	20.07
31.96	17.50
31.96	17.50
34.38	20.36
34.38	20.36
36.57	29.69
36.57	29.69
35.48	49.95
35.48	49.95
68.51	-7.80

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 37

carga permanente + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z
31	10	373.983	-60.134	-39.007
31	12	-375.858	57.995	-74.271
32	12	375.858	-57.995	74.271
32	13	-374.859	40.861	-112.731
33	13	374.859	-40.861	112.731
33	15	-371.410	19.339	-136.749
34	15	371.410	-19.339	136.749
34	17	-366.233	0.000	-139.216
1	17	366.233	0.000	139.216
1	20	-371.896	-19.377	-137.057
2	20	371.896	19.377	137.057
2	22	-375.350	-40.940	-112.979
3	22	375.350	40.940	112.978
3	23	-376.350	-58.106	-74.431
4	23	376.351	58.106	74.431
4	25	-373.983	-60.133	39.007

TENSIONES

SIG SUP	SIG INF
60.11	-6.68
-25.87	160.66
-25.87	160.66
-21.24	143.92
-21.24	143.92
-16.68	123.90
-16.68	123.90
-13.93	110.96
-13.93	110.96
-16.74	124.16
-16.74	124.16
-21.32	144.21
-21.32	144.21
-25.96	160.97
-25.96	160.97
60.11	-6.68

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 38

max mz + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	373.983	28.108	-39.006
31	12	-375.858	57.995	-74.271
32	12	375.858	-57.995	74.271
32	13	-374.859	40.861	-112.731
33	13	374.859	-40.861	112.731
33	15	-371.410	19.339	-136.749
34	15	371.410	-19.339	136.749
34	17	-366.233	0.000	-139.216
1	17	366.233	0.000	139.216
1	20	-371.896	-19.377	-137.057
2	20	371.896	19.377	137.057
2	22	-375.350	-40.940	-112.979
3	22	375.350	40.940	112.978
3	23	-376.350	-58.106	-74.431
4	23	376.351	58.106	74.431
4	25	-373.983	28.132	39.006

TENSIONES

SIG SUP	SIG INF
60.11	-6.68
-25.87	160.66
-25.87	160.66
-21.24	143.92
-21.24	143.92
-16.68	123.90
-16.68	123.90
-13.93	110.96
-13.93	110.96
-16.74	124.16
-16.74	124.16
-21.32	144.21
-21.32	144.21
-25.96	160.97
-25.96	160.97
60.11	-6.68

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 39

min mz + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	373.983	-60.134	-39.007
31	12	-375.858	5.810	11.058
32	12	375.858	-5.810	-11.058
32	13	-374.859	2.551	30.724
33	13	374.859	-2.551	-30.724
33	15	-371.410	5.446	46.046
34	15	371.410	-5.446	-46.046
34	17	-366.233	0.006	49.532
1	17	366.233	-0.007	-49.532
1	20	-371.896	-5.495	45.739
2	20	371.896	5.495	-45.739
2	22	-375.350	-2.641	30.494
3	22	375.350	2.641	-30.494
3	23	-376.350	-5.908	10.920
4	23	376.351	5.908	-10.920
4	25	-373.983	-60.133	39.007

TENSIONES

SIG SUP	SIG INF
60.11	-6.68
44.48	16.70
44.48	16.70
44.29	-0.72
44.29	-0.72
40.95	-6.39
40.95	-6.39
37.82	-6.62
37.82	-6.62
40.89	-6.13
40.89	-6.13
44.22	-0.45
44.22	-0.45
44.41	16.98
44.41	16.98
60.11	-6.68

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 33

24 ϕ 0,6"

p.p. + pret (t=0)

		ESFUERZOS EN BARRAS			TENSIONES	
BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	467.012	-99.518	-49.147	75.44	-8.72
31	12	-469.353	91.708	-128.458	-61.75	260.87
32	12	469.353	-91.708	128.458	-61.75	260.87
32	13	-468.106	64.845	-196.807	-52.12	236.22
33	13	468.106	-64.845	196.807	-52.12	236.22
33	15	-463.798	31.097	-242.450	-43.43	205.82
34	15	463.798	-31.097	242.451	-43.43	205.82
34	17	-457.334	0.000	-250.729	-38.47	186.46
1	17	457.334	0.000	250.730	-38.47	186.46
1	20	-464.406	-31.145	-242.835	-43.51	206.14
2	20	464.406	31.146	242.835	-43.51	206.14
2	22	-468.719	-64.944	-197.116	-52.21	236.58
3	22	468.719	64.944	197.116	-52.21	236.58
3	23	-469.968	-91.847	-128.658	-61.86	261.26
4	23	469.968	91.846	128.658	-61.86	261.26
4	25	-467.012	-99.518	49.147	75.44	-8.72

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 34

carga permanente + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	467.012	-83.524	-49.147	75.44	-8.72
31	12	-469.353	79.056	-104.657	-42.13	220.71
32	12	469.353	-79.056	104.657	-42.13	220.71
32	13	-468.106	55.864	-159.727	-35.18	198.83
33	13	468.106	-55.864	159.727	-35.18	198.83
33	15	-463.798	26.623	-195.231	-28.54	172.16
34	15	463.798	-26.623	195.231	-28.54	172.16
34	17	-457.334	0.000	-200.162	-24.61	154.96
1	17	457.334	0.000	200.162	-24.61	154.96
1	20	-464.406	-26.671	-195.615	-28.62	172.48
2	20	464.406	26.671	195.615	-28.62	172.48
2	22	-468.719	-55.963	-160.036	-35.28	199.20
3	22	468.719	55.963	160.036	-35.28	199.20
3	23	-469.968	-79.195	-104.857	-42.24	221.11
4	23	469.968	79.195	104.857	-42.24	221.11
4	25	-467.012	-83.524	49.147	75.44	-8.72

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 35

max Mz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	TENSIONES SIG INF
31	10	467.012	4.718	-49.146	75.44	-8.72
31	12	-469.353	79.056	-104.657	-42.13	220.71
32	12	469.353	-79.056	104.657	-42.13	220.71
32	13	-468.106	55.864	-159.727	-35.18	198.83
33	13	468.106	-55.864	159.727	-35.18	198.83
33	15	-463.798	26.623	-195.231	-28.54	172.16
34	15	463.798	-26.623	195.231	-28.54	172.16
34	17	-457.334	0.000	-200.162	-24.61	154.96
1	17	457.334	0.000	200.162	-24.61	154.96
1	20	-464.406	-26.671	-195.615	-28.62	172.48
2	20	464.406	26.671	195.615	-28.62	172.48
2	22	-468.719	-55.963	-160.036	-35.28	199.20
3	22	468.719	55.963	160.036	-35.28	199.20
3	23	-469.968	-79.195	-104.857	-42.24	221.11
4	23	469.968	79.195	104.857	-42.24	221.11
4	25	-467.012	4.741	49.146	75.44	-8.72

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 36

min mz + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	467.012	-83.524	-49.147	75.44	-8.72
31	12	-469.353	26.871	-19.327	28.22	76.76
32	12	469.353	-26.871	19.327	28.22	76.76
32	13	-468.106	17.554	-16.272	30.35	54.19
33	13	468.106	-17.554	16.272	30.35	54.19
33	15	-463.798	12.730	-12.436	29.09	41.87
34	15	463.798	-12.730	12.436	29.09	41.87
34	17	-457.334	0.006	-11.414	27.14	37.38
1	17	457.334	-0.007	11.414	27.14	37.38
1	20	-464.406	-12.789	-12.819	29.01	42.19
2	20	464.406	12.789	12.820	29.01	42.19
2	22	-468.719	-17.664	-16.564	30.26	54.53
3	22	468.719	17.664	16.564	30.26	54.53
3	23	-469.968	-26.997	-19.505	28.13	77.12
4	23	469.968	26.997	19.505	28.13	77.12
4	25	-467.012	-83.524	49.147	75.44	-8.72

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 37

carga permanente + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	TENSIONES SIG SUP	SIG INF
31	10	410.970	-69.434	-43.039	66.20	-7.49
31	12	-413.031	66.369	-86.352	-32.34	184.53
32	12	413.031	-66.369	86.353	-32.34	184.53
32	13	-411.933	46.826	-131.416	-26.79	165.75
33	13	411.933	-46.826	131.416	-26.79	165.75
33	15	-408.142	22.235	-160.001	-21.40	143.09
34	15	408.142	-22.235	160.001	-21.40	143.09
34	17	-402.454	0.000	-163.447	-18.18	128.45
1	17	402.454	0.000	163.448	-18.18	128.45
1	20	-408.677	-22.277	-160.339	-21.46	143.37
2	20	408.677	22.277	160.339	-21.46	143.37
2	22	-412.473	-46.913	-131.688	-26.87	166.07
3	22	412.473	46.913	131.688	-26.87	166.07
3	23	-413.572	-66.491	-86.528	-32.43	184.98
4	23	413.572	66.491	86.528	-32.43	184.88
4	25	-410.970	-69.433	43.039	66.20	-7.49

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 38

max nz + pret(t=inf.)

ESFUERZOS EN BARRAS

TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	410.970	18.809	-43.038	66.20	-7.49
31	12	-413.031	66.369	-86.352	-32.34	184.53
32	12	413.031	-66.369	86.353	-32.34	184.53
32	13	-411.933	46.826	-131.416	-26.79	165.75
33	13	411.933	-46.826	131.416	-26.79	165.75
33	15	-408.142	22.235	-160.001	-21.40	143.09
34	15	408.142	-22.235	160.001	-21.40	143.09
34	17	-402.454	0.000	-163.447	-18.18	128.45
1	17	402.454	0.000	163.448	-18.18	128.45
1	20	-408.677	-22.277	-160.339	-21.46	143.37
2	20	408.677	22.277	160.339	-21.46	143.37
2	22	-412.473	-46.913	-131.688	-26.87	166.07
3	22	412.473	46.913	131.688	-26.87	166.07
3	23	-413.572	-66.491	-86.528	-32.43	184.88
4	23	413.572	66.491	86.528	-32.43	184.88
4	25	-410.970	18.832	43.038	66.20	-7.49

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 39

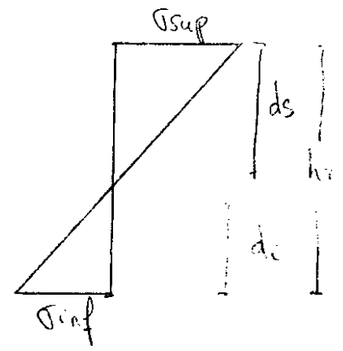
min nz + pret(t=inf.)

ESFUERZOS EN BARRAS

TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	410.970	-69.434	-43.039	66.20	-7.49
31	12	-413.031	14.184	-1.023	38.01	40.58
32	12	413.031	-14.184	1.023	38.01	40.58
32	13	-411.933	8.516	12.039	38.75	21.11
33	13	411.933	-8.516	-12.039	38.75	21.11
33	15	-408.142	8.342	22.794	36.24	12.80
34	15	408.142	-8.342	-22.794	36.24	12.80
34	17	-402.454	0.006	25.300	33.57	10.87
1	17	402.454	-0.007	-25.300	33.57	10.87
1	20	-408.677	-8.395	22.457	36.17	13.08
2	20	408.677	8.395	-22.456	36.17	13.08
2	22	-412.473	-8.614	11.785	38.67	21.41
3	22	412.473	8.614	-11.784	38.67	21.41
3	23	-413.572	-14.293	-1.177	37.94	40.89
4	23	413.572	14.292	1.177	37.94	40.89
4	25	-410.970	-69.433	43.039	66.20	-7.49

CALCULO DE [illegible] DE VOLUMEN DE TRACCIONES



$$ds = \frac{\sigma_{sup}}{\sigma_{inf} - \sigma_{sup}} \cdot h_T$$

$$d_c = \frac{\sigma_{inf}}{\sigma_{inf} - \sigma_{sup}} \cdot h_T$$

$$U_s = \frac{1}{2} \beta_f \cdot \sigma_{inf} \cdot b_w \cdot d$$
(Compresión)

HIPOTESIS	SECC	σsup	σinf	d	hT	bw	Us (Tn)
[illegible] (t=0)	n4	-44,79	[illegible]	0,184	0,658	2,80	114,08
[illegible]	n1	43,58	-29,52	0,162	1,142	0,50	51,19
	n3	51,49	-29,07	0,218	0,882	0,55	38,16

Armadura superior: [illegible] (6 Ø 16 + 2 Ø 20)

Armadura inferior: 4 Ø 20

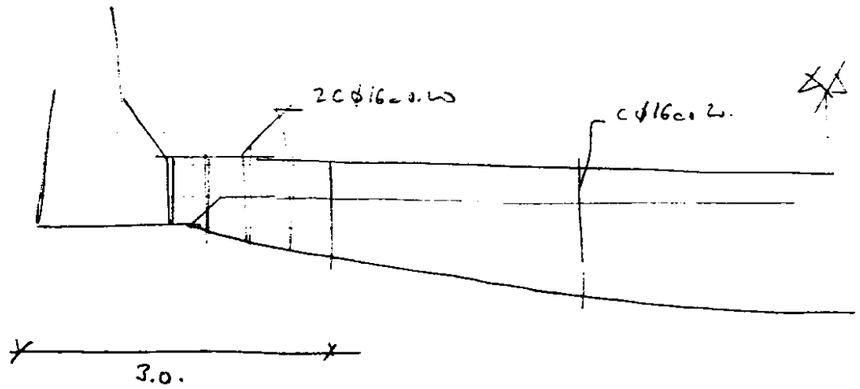
Calculo de armadura
(sin pretensado de almas)

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA____ DE ____

PROYECTO_____ FECHA _____

ARMADURA TRANSVERSAL



$A_s = 42 cm^2/m$ → 2 arcos ϕ12 c 0.10 — 2 arcos ϕ16 a 20

$A_{s\,min} = 20 cm^2/m$. — arcos ϕ16 c 0.20

proc Seccion transversal (sin pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	UUE 1	UUE 2	UUE 3	UUE 4	RELACION	TOTAL TRANS
10	0.00	AB	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.26
	0.00	AB	41.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	41.73
	0.00	AB	41.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	41.73
	0.00	AB	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.26
	0.00	AB	41.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	41.73
	0.00	AB	10.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.26
	0.00	AB	11.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19 0.00	11.44
	0.00	AB	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35 0.00	31.20
	0.00	AB	33.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37 0.00	33.74
	0.00	AB	14.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	14.09
	0.00	AB	33.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37 0.00	33.74
	0.00	AB	14.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	14.09
12	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.29
	0.00	C	20.25	21.26	0.00	0.00	0.00	0.00	0.00	0.00	0.27 0.00	20.25
	0.00	C	20.25	21.26	0.00	0.00	0.00	0.00	0.00	0.00	0.27 0.00	20.25
	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.29
	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.29
	0.00	C	10.53C	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.12 0.00	0.00
	0.00	AB	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.73
	0.00	C	11.75	18.82	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	11.75
	0.00	C	13.45	19.82	0.00	0.00	0.00	0.00	0.00	0.00	0.23 0.00	13.45
	0.00	AB	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15 0.00	7.50
	0.00	AB	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.73
	0.00	C	10.53C	13.55	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
13	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	0.83	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	0.83
	0.00	C	0.83	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	0.83
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	16.52	0.00	0.00	0.00	0.00	0.00	0.00	0.06 0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	18.51	0.00	0.00	0.00	0.00	0.00	0.00	0.11 0.00	0.00
	0.00	C	10.04C	19.32	0.00	0.00	0.00	0.00	0.00	0.00	0.12 0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09 0.00	0.76
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	15.08	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00
15	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	16.16	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	19.18	0.00	0.00	0.00	0.00	0.00	0.00	0.05 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	15.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	15.40	0.00	0.00	0.00	0.00	0.00	0.00	0.01 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00

proc Seccion transversal (sin pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRANS
	0.00	C	9.66C	19.58	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.67	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
17	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	C	9.52C	20.91	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	16.15	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	C	9.66C	19.19	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	C	9.66C	16.11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	C	9.66C	19.65	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.74	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
22	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	0.83	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.83
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	0.82	20.30	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.82
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	10.04C	16.52	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.76
	0.00	C	10.04C	19.28	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.76
	0.00	C	10.04C	19.28	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	10.04C	15.15	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
23	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.29
	0.00	C	20.26	21.26	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	20.26
	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.29
	0.00	C	20.25	21.27	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	20.25
	0.00	AB	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.29
	0.00	C	10.53C	15.36	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00

proc Seccion transversal (sin pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRANS
	0.00	AB	7.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	7.46
	0.00	C	13.38	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	13.38
	0.00	AB	7.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	7.46
	0.00	C	13.35	19.81	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	13.35
	0.00	AB	5.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.76
	0.00	C	10.53C	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00

Calculo de armadura
(sin pretensado de almas)

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

FICHERO ARMADURA PARA ELEMENTOS TRANSVERSALES

* Barras 21 a 27, 29. 8 a 14, 6 $b = 3.0$. $h = 0.40$ m.

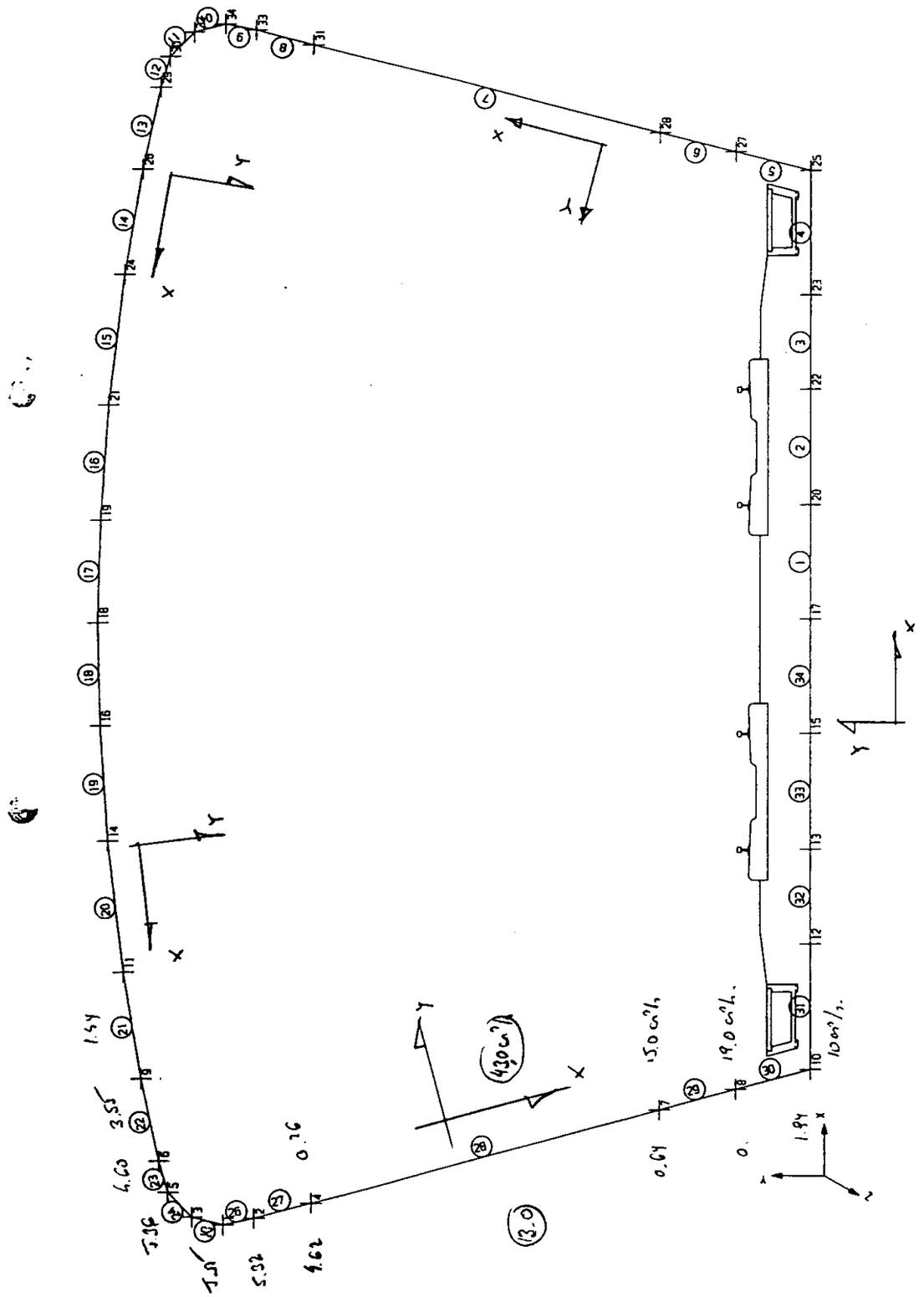
* Barras 7 y 28 : $b = \frac{2.20}{6} \cdot 3 = 1.10$ m. $h = 0.40$.

* Barra 30, 5 $b = 3.0$ $h_1 = 0.40$ $h_2 = 0.80$.

* La reducción de sección de refuerzo conforme a las condiciones alcanzadas de la comprobación del modelo de E.F y el tramo de barras.

* Barras 15 a 20 $b = \frac{6}{3} \cdot 0.40 = 0.20$ $h = 0.40$.

hipótesis de cálculo en rotura 41 a 52.



ARMADURA FLEXIÓN TRANSVERSAL
(SIN PRETENSADO DE ANCLAJE)

proc Seccion transversal (sin pretensado de almas)

hipo 41 max fx (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
30	10	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
29	7	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
29	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
28	4	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
28	7	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
27	2	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
27	4	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
26	1	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
26	2	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
25	3	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
25	1	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
24	5	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
24	3	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
23	6	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
23	5	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
22	9	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
22	6	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
	11	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
20	14	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
20	11	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
19	16	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
19	14	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
18	18	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
18	16	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
17	19	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
17	18	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
16	21	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
16	19	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
15	24	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.92	0.56	13.35
15	21	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
14	26	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
14	24	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
13	26	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
12	30	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
12	29	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
11	32	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
11	30	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
10	34	3.00	0.40	0.03	0.00	0.00	19.32	14.42	0.08	2.17	13.35
10	32	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
9	33	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
9	34	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
8	31	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
8	33	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
	28	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
	31	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
6	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
6	28	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 41 max fx (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
5	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 42 min fx (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
30	10	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
29	7	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
29	8	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
28	4	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
28	7	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
27	2	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
27	4	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
26	1	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
26	2	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
25	3	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
25	1	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
24	5	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
24	3	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
23	6	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
23	5	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
22	9	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
22	6	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
21	11	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
21	9	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
20	14	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
20	11	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
19	14	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
18	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
16	21	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
16	19	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
15	21	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
14	26	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
13	29	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
13	26	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
12	30	3.00	0.40	0.03	0.00	0.00	2.24	22.87	0.01	4.59	13.35
12	29	3.00	0.40	0.03	0.00	0.00	1.70	17.46	0.01	3.50	13.35
11	32	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
11	30	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
10	34	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
10	32	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
9	33	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
9	34	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
8	31	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
8	33	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
	28	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
	31	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
6	27	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
6	28	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 42 min fx (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
5	27	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 43 max fy (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
30	10	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
29	7	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
29	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
28	4	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
28	7	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
27	2	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
27	4	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
26	1	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
26	2	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
25	3	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
25	1	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
24	5	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
24	3	3.00	0.40	0.03	0.00	0.00	9.96	28.06	0.04	5.36	13.35
23	6	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
23	5	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
22	9	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
22	6	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
21	11	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
21	9	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
20	14	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
20	11	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
19	14	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
18	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	19	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
17	18	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
16	21	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
16	19	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
15	24	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.92	0.56	13.35
15	21	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
14	26	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
14	24	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
13	26	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
12	30	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
12	29	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
11	32	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
11	30	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
10	34	3.00	0.40	0.03	0.00	0.00	19.32	14.42	0.08	2.17	13.35
10	32	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
9	33	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
9	34	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
8	31	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
8	33	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
7	28	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
7	31	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
6	27	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
6	28	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 43 max fy (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
5	27	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 44 min fy (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
30	10	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
29	7	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
29	8	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
28	4	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
28	7	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
27	2	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
27	4	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
26	1	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
26	2	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
25	3	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
25	1	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
24	5	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
24	3	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
23	6	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
23	5	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
22	9	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
22	6	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
	11	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
20	14	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
20	11	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
19	16	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
19	14	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
18	18	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
18	16	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
16	21	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
16	19	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
15	21	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
14	26	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
13	29	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
13	26	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
12	30	3.00	0.40	0.03	0.00	0.00	2.24	22.87	0.01	4.59	13.35
12	29	3.00	0.40	0.03	0.00	0.00	1.70	17.46	0.01	3.50	13.35
11	32	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
11	30	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
10	34	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
10	32	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
9	33	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
9	34	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
8	31	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
8	33	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
	28	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
7	31	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
6	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
6	28	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 44 min fy (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
5	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 45 max mz (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	9	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
30	10	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
29	7	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
29	8	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
28	4	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
28	7	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
27	2	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
27	4	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
26	1	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
26	2	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
25	3	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
25	1	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
24	5	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
24	3	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
23	6	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
23	5	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
22	9	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
22	6	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
21	11	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
20	14	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.60	0.21	13.35
20	11	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
19	14	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.59	0.21	13.35
18	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
16	21	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.59	0.21	13.35
16	19	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
15	24	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.92	0.56	13.35
15	21	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.60	0.21	13.35
14	26	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
14	24	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
13	26	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
12	30	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
12	29	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
11	32	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
11	30	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
10	34	3.00	0.40	0.03	0.00	0.00	19.32	14.42	0.08	2.17	13.35
10	32	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
9	33	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
9	34	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
8	31	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
8	33	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
7	28	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
7	31	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
6	27	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
6	28	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 45 max mz (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
5	27	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 46 min nz (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
30	10	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
29	7	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
29	8	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
28	4	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
28	7	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
27	2	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
27	4	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
26	1	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
26	2	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
25	3	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
25	1	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
24	5	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
24	3	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
23	6	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
23	5	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
22	9	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
22	6	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
21	11	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
21	9	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
20	14	0.20	0.40	0.03	0.00	0.00	1.82	0.10	0.11	-0.81	13.35
20	11	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
19	16	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
19	14	0.20	0.40	0.03	0.00	0.00	1.81	0.10	0.11	-0.80	13.35
18	18	0.20	0.40	0.03	0.00	0.00	4.86	0.07	0.30	-2.70	13.35
18	16	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
17	19	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
17	18	0.20	0.40	0.03	0.00	0.00	4.86	0.07	0.30	-2.70	13.35
16	21	0.20	0.40	0.03	0.00	0.00	1.81	0.10	0.11	-0.80	13.35
16	19	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
15	21	0.20	0.40	0.03	0.00	0.00	1.82	0.10	0.11	-0.81	13.35
14	26	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
13	29	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
13	26	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
12	30	3.00	0.40	0.03	0.00	0.00	2.24	22.87	0.01	4.59	13.35
12	29	3.00	0.40	0.03	0.00	0.00	1.70	17.46	0.01	3.50	13.35
11	32	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
11	30	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
10	34	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
10	32	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
9	33	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
9	34	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
8	31	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
8	33	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
7	28	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
7	31	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
6	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
6	28	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 46 min nz (G-I) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
5	27	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 47 max fx (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
30	10	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78
29	7	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35
29	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
28	4	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35
28	7	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35
27	2	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35
27	4	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35
26	1	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35
26	2	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35
25	3	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
25	1	3.00	0.40	0.03	0.00	0.00	20.37	13.78	0.08	2.00	13.35
24	5	3.00	0.40	0.03	0.00	0.00	17.73	14.25	0.07	2.20	13.35
24	3	3.00	0.40	0.03	0.00	0.00	18.99	16.01	0.08	2.51	13.35
23	6	3.00	0.40	0.03	0.00	0.00	13.64	9.95	0.06	1.48	13.35
23	5	3.00	0.40	0.03	0.00	0.00	14.13	14.25	0.06	2.34	13.35
22	9	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
22	6	3.00	0.40	0.03	0.00	0.00	12.92	9.95	0.05	1.51	13.35
21	11	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	11.75	1.68	0.05	-0.13	13.35
20	14	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
20	11	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
19	16	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
19	14	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
18	18	0.20	0.40	0.03	0.00	0.00	10.83	0.94	0.68	-3.58	13.35
18	16	0.20	0.40	0.03	0.00	0.00	10.84	0.69	0.68	-4.36	13.35
17	19	0.20	0.40	0.03	0.00	0.00	10.84	0.69	0.68	-4.36	13.35
17	18	0.20	0.40	0.03	0.00	0.00	10.83	0.94	0.68	-3.58	13.35
16	21	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
16	19	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
15	24	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
15	21	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
14	26	3.00	0.40	0.03	0.00	0.00	11.74	1.68	0.05	-0.13	13.35
14	24	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	12.92	9.95	0.05	1.51	13.35
13	26	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
12	30	3.00	0.40	0.03	0.00	0.00	14.12	14.25	0.06	2.34	13.35
12	29	3.00	0.40	0.03	0.00	0.00	13.64	9.95	0.06	1.48	13.35
11	32	3.00	0.40	0.03	0.00	0.00	18.99	16.01	0.08	2.51	13.35
11	30	3.00	0.40	0.03	0.00	0.00	17.73	14.25	0.07	2.20	13.35
10	34	3.00	0.40	0.03	0.00	0.00	20.37	13.78	0.08	2.00	13.35
10	32	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
9	33	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35
9	34	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35
8	31	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35
8	33	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35
7	28	1.10	0.40	0.03	0.00	0.00	36.00	10.19	0.41	1.80	13.35
7	31	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35
6	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35
6	28	3.00	0.40	0.03	0.00	0.00	36.00	10.19	0.15	0.63	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 47 max fx (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	46.13	2.70	0.19	-1.53	27.78
5	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 48 min fx (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
30	10	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
29	7	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
29	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
28	4	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.03	0.20	13.35
28	7	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
27	2	3.00	0.40	0.03	0.00	0.00	14.65	6.83	0.06	0.80	13.35
27	4	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.01	0.07	13.35
26	1	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
26	2	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
25	3	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
25	1	3.00	0.40	0.03	0.00	0.00	14.95	27.94	0.06	5.13	13.35
24	5	3.00	0.40	0.03	0.00	0.00	7.38	20.85	0.03	3.97	13.35
24	3	3.00	0.40	0.03	0.00	0.00	8.64	25.63	0.04	4.90	13.35
23	6	3.00	0.40	0.03	0.00	0.00	1.20	15.94	0.00	3.21	13.35
23	5	3.00	0.40	0.03	0.00	0.00	1.69	20.85	0.01	4.20	13.35
22	9	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35
22	6	3.00	0.40	0.03	0.00	0.00	0.39	15.94	0.00	3.24	13.35
1	11	3.00	0.40	0.03	0.00	0.00	-1.80	1.21	0.01	0.32	13.35
21	9	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35
20	14	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
20	11	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
19	14	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
18	18	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
16	21	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
16	19	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
15	21	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
14	26	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-1.79	1.21	0.01	0.32	13.35
13	29	3.00	0.40	0.03	0.00	0.00	0.40	15.94	0.00	3.24	13.35
13	26	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35
12	30	3.00	0.40	0.03	0.00	0.00	1.69	20.85	0.01	4.20	13.35
12	29	3.00	0.40	0.03	0.00	0.00	1.20	15.94	0.00	3.21	13.35
11	32	3.00	0.40	0.03	0.00	0.00	8.64	25.63	0.04	4.90	13.35
11	30	3.00	0.40	0.03	0.00	0.00	7.38	20.85	0.03	3.97	13.35
10	34	3.00	0.40	0.03	0.00	0.00	14.95	27.94	0.06	5.13	13.35
10	32	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
9	33	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
9	34	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
8	31	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.00	0.07	13.35
8	33	3.00	0.40	0.03	0.00	0.00	14.65	6.84	0.06	0.80	13.35
7	28	1.10	0.40	0.03	0.00	0.00	30.85	-77.81	43.37	0.35	13.35
7	31	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.02	0.20	13.35
6	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35
6	28	3.00	0.40	0.03	0.00	0.00	30.85	-77.81	15.01	0.13	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 48 min fx (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	40.99	-115.70	9.82	0.17	27.78
5	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 49 max fy (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	MXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
30	10	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78
29	7	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35
29	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
28	4	1.10	0.40	0.03	0.00	0.00	20.35	25.10	0.23	12.06	13.35
28	7	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35
27	2	3.00	0.40	0.03	0.00	0.00	17.44	27.35	0.07	4.91	13.35
27	4	3.00	0.40	0.03	0.00	0.00	20.35	25.10	0.08	4.33	13.35
26	1	3.00	0.40	0.03	0.00	0.00	15.96	27.94	0.07	5.09	13.35
26	2	3.00	0.40	0.03	0.00	0.00	17.56	27.35	0.07	4.90	13.35
25	3	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
25	1	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35
24	5	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35
24	3	3.00	0.40	0.03	0.00	0.00	10.95	27.55	0.05	5.21	13.35
23	6	3.00	0.40	0.03	0.00	0.00	2.85	16.72	0.01	3.30	13.35
23	5	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35
22	9	3.00	0.40	0.03	0.00	0.00	6.98	5.95	0.90	1.17	13.35
22	6	3.00	0.40	0.03	0.00	0.00	1.92	16.72	0.01	3.34	13.35
21	11	3.00	0.40	0.03	0.00	0.00	-1.80	1.21	0.01	0.32	13.35
21	9	3.00	0.40	0.03	0.00	0.00	0.66	5.95	0.00	1.18	13.35
20	14	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
20	11	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
19	14	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
18	18	0.20	0.40	0.03	0.00	0.00	-0.39	-0.65	2.23	0.02	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-0.38	-0.39	1.41	0.02	13.35
17	19	0.20	0.40	0.03	0.00	0.00	9.30	0.42	0.58	-4.29	13.35
17	18	0.20	0.40	0.03	0.00	0.00	9.30	0.75	0.58	-3.27	13.35
16	21	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
16	19	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
15	24	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
15	21	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
14	26	3.00	0.40	0.03	0.00	0.00	10.25	2.16	0.04	0.03	13.35
14	24	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
13	26	3.00	0.40	0.03	0.00	0.00	10.45	2.16	0.04	0.02	13.35
12	30	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.11	13.35
12	29	3.00	0.40	0.03	0.00	0.00	11.99	9.17	0.05	1.39	13.35
11	32	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
11	30	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
10	34	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
10	32	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
9	33	3.00	0.40	0.03	0.00	0.00	17.81	8.42	0.07	1.00	13.35
9	34	3.00	0.40	0.03	0.00	0.00	16.21	13.78	0.07	2.16	13.35
8	31	3.00	0.40	0.03	0.00	0.00	19.92	-2.28	-0.34	0.08	13.35
8	33	3.00	0.40	0.03	0.00	0.00	17.01	8.42	0.07	1.03	13.35
7	28	1.10	0.40	0.03	0.00	0.00	30.85	-77.81	43.37	0.35	13.35
7	31	1.10	0.40	0.03	0.00	0.00	19.92	-2.28	-0.92	0.23	13.35
6	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35
6	28	3.00	0.40	0.03	0.00	0.00	30.85	-77.81	15.01	0.13	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 49 max fy (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	MXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	40.99	-115.70	9.82	0.17	27.78
5	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 50 min fy (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
30	10	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
29	7	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
29	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
28	4	1.10	0.40	0.03	0.00	0.00	19.92	-2.28	-0.92	0.23	13.35
28	7	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
27	2	3.00	0.40	0.03	0.00	0.00	17.01	8.42	0.07	1.03	13.35
27	4	3.00	0.40	0.03	0.00	0.00	19.92	-2.28	-0.34	0.08	13.35
26	1	3.00	0.40	0.03	0.00	0.00	16.21	13.78	0.07	2.16	13.35
26	2	3.00	0.40	0.03	0.00	0.00	17.81	8.42	0.07	1.00	13.35
25	3	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
25	1	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
24	5	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
24	3	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
23	6	3.00	0.40	0.03	0.00	0.00	12.00	9.17	0.05	1.39	13.35
23	5	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.10	13.35
22	9	3.00	0.40	0.03	0.00	0.00	10.45	2.16	0.04	0.02	13.35
22	6	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
21	11	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	10.25	2.16	0.04	0.03	13.35
20	14	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
20	11	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
19	16	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
19	14	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
18	18	0.20	0.40	0.03	0.00	0.00	9.30	0.75	0.58	-3.27	13.35
18	16	0.20	0.40	0.03	0.00	0.00	9.30	0.42	0.58	-4.29	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-0.39	-0.39	1.41	0.02	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-0.39	-0.65	2.24	0.02	13.35
16	21	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
16	19	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
15	21	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
14	26	3.00	0.40	0.03	0.00	0.00	0.66	5.95	0.00	1.18	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-1.79	1.21	0.01	0.32	13.35
13	29	3.00	0.40	0.03	0.00	0.00	1.93	16.72	0.01	3.34	13.35
13	26	3.00	0.40	0.03	0.00	0.00	0.99	5.95	0.00	1.17	13.35
12	30	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35
12	29	3.00	0.40	0.03	0.00	0.00	2.84	16.72	0.01	3.30	13.35
11	32	3.00	0.40	0.03	0.00	0.00	10.94	27.55	0.05	5.21	13.35
11	30	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35
10	34	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35
10	32	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
9	33	3.00	0.40	0.03	0.00	0.00	17.56	27.35	0.07	4.90	13.35
9	34	3.00	0.40	0.03	0.00	0.00	15.96	27.94	0.07	5.09	13.35
8	31	3.00	0.40	0.03	0.00	0.00	20.35	25.10	0.08	4.33	13.35
8	33	3.00	0.40	0.03	0.00	0.00	17.44	27.35	0.07	4.91	13.35
7	28	1.10	0.40	0.03	0.00	0.00	36.00	10.19	0.41	1.80	13.35
7	31	1.10	0.40	0.03	0.00	0.00	20.35	25.10	0.23	12.06	13.35
6	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35
6	28	3.00	0.40	0.03	0.00	0.00	36.00	10.19	0.15	0.63	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 50 min fy (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	46.13	2.70	0.19	-1.53	27.78
5	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 51 max nz (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
30	10	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
29	7	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
29	8	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
28	4	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.03	0.20	13.35
28	7	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
27	2	3.00	0.40	0.03	0.00	0.00	14.65	6.83	0.06	0.80	13.35
27	4	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.01	0.07	13.35
26	1	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
26	2	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
25	3	3.00	0.40	0.03	0.00	0.00	16.14	14.09	0.07	2.23	13.35
25	1	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
24	5	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
24	3	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
23	6	3.00	0.40	0.03	0.00	0.00	12.00	9.17	0.05	1.39	13.35
23	5	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.10	13.35
22	9	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
22	6	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
[illegible]	11	3.00	0.40	0.03	0.00	0.00	9.26	-1.44	-0.08	0.04	13.35
21	9	3.00	0.40	0.03	0.00	0.00	11.75	1.68	0.05	-0.13	13.35
20	14	0.20	0.40	0.03	0.00	0.00	4.22	-0.43	-1.23	0.26	13.35
20	11	0.20	0.40	0.03	0.00	0.00	9.30	-1.44	-1.13	0.58	13.35
19	16	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
19	14	0.20	0.40	0.03	0.00	0.00	4.23	-0.43	-1.23	0.26	13.35
18	18	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
18	16	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
17	19	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
17	18	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
16	21	0.20	0.40	0.03	0.00	0.00	4.23	-0.43	-1.23	0.26	13.35
16	19	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
15	24	0.20	0.40	0.03	0.00	0.00	9.30	-1.44	-1.13	0.58	13.35
15	21	0.20	0.40	0.03	0.00	0.00	4.22	-0.43	-1.23	0.26	13.35
14	26	3.00	0.40	0.03	0.00	0.00	11.74	1.68	0.05	-0.13	13.35
14	24	3.00	0.40	0.03	0.00	0.00	9.26	-1.44	-0.08	0.04	13.35
13	29	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
13	26	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
12	30	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.11	13.35
12	29	3.00	0.40	0.03	0.00	0.00	11.99	9.17	0.05	1.39	13.35
11	32	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
11	30	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
10	34	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
10	32	3.00	0.40	0.03	0.00	0.00	16.14	14.09	0.07	2.23	13.35
9	33	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
9	34	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
8	31	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.00	0.07	13.35
8	33	3.00	0.40	0.03	0.00	0.00	14.65	6.84	0.06	0.80	13.35
[illegible]	28	1.10	0.40	0.03	0.00	0.00	30.85	-77.81	43.37	0.35	13.35
[illegible]	31	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.02	0.20	13.35
6	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35
6	28	3.00	0.40	0.03	0.00	0.00	30.85	-77.81	15.01	0.13	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 51 max nz (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	40.99	-115.70	9.82	0.17	27.78
5	27	3.00	0.40	0.03	0.00	0.00	34.77	-96.15	18.81	0.14	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 52 min nz (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
30	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
30	10	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78
29	7	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35
29	8	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
28	4	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35
28	7	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35
27	2	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35
27	4	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35
[illegible]	1	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35
[illegible]	2	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35
25	3	3.00	0.40	0.03	0.00	0.00	15.90	27.55	0.07	5.01	13.35
25	1	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35
24	5	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35
24	3	3.00	0.40	0.03	0.00	0.00	10.95	27.55	0.05	5.21	13.35
23	6	3.00	0.40	0.03	0.00	0.00	2.85	16.72	0.01	3.30	13.35
23	5	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35
22	9	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35
22	6	3.00	0.40	0.03	0.00	0.00	1.92	16.72	0.01	3.34	13.35
[illegible]	11	3.00	0.40	0.03	0.00	0.00	-0.26	1.33	0.00	0.28	13.35
21	9	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35
20	14	0.20	0.40	0.03	0.00	0.00	2.88	0.35	0.18	-0.67	13.35
20	11	0.20	0.40	0.03	0.00	0.00	-0.30	1.33	0.02	4.26	13.35
19	16	0.20	0.40	0.03	0.00	0.00	7.14	0.28	0.45	-3.42	13.35
19	14	0.20	0.40	0.03	0.00	0.00	2.87	0.35	0.18	-0.66	13.35
18	18	0.20	0.40	0.03	0.00	0.00	7.14	0.41	0.45	-3.05	13.35
18	16	0.20	0.40	0.03	0.00	0.00	7.15	0.28	0.45	-3.43	13.35
17	19	0.20	0.40	0.03	0.00	0.00	7.15	0.28	0.45	-3.43	13.35
17	18	0.20	0.40	0.03	0.00	0.00	7.14	0.41	0.45	-3.05	13.35
16	21	0.20	0.40	0.03	0.00	0.00	2.87	0.35	0.18	-0.66	13.35
16	19	0.20	0.40	0.03	0.00	0.00	7.14	0.28	0.45	-3.42	13.35
15	24	0.20	0.40	0.03	0.00	0.00	-0.31	1.33	0.02	4.26	13.35
15	21	0.20	0.40	0.03	0.00	0.00	2.88	0.35	0.18	-0.67	13.35
14	26	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35
14	24	3.00	0.40	0.03	0.00	0.00	-0.27	1.33	0.00	0.28	13.35
13	29	3.00	0.40	0.03	0.00	0.00	1.93	16.72	0.01	3.34	13.35
13	26	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35
12	30	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35
12	29	3.00	0.40	0.03	0.00	0.00	2.84	16.72	0.01	3.30	13.35
11	32	3.00	0.40	0.03	0.00	0.00	10.94	27.55	0.05	5.21	13.35
11	30	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35
10	34	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35
10	32	3.00	0.40	0.03	0.00	0.00	15.90	27.55	0.07	5.01	13.35
9	33	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35
9	34	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35
8	31	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35
8	33	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35
[illegible]	28	1.10	0.40	0.03	0.00	0.00	36.00	10.19	0.41	1.80	13.35
[illegible]	31	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35
6	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35
6	28	3.00	0.40	0.03	0.00	0.00	36.00	10.19	0.15	0.63	13.35

proc Seccion transversal (sin pretensado de almas)

hipo 52 min nz (G-II) (e.l.u)

BARR	NUD	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
5	25	3.00	0.80	0.03	0.00	0.00	46.13	2.70	0.19	-1.53	27.78
5	27	3.00	0.40	0.03	0.00	0.00	39.91	6.70	0.17	-0.24	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 30 NUDO 8

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
42	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
43	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
44	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
45	3.00	0.40	0.03	0.00	0.00	38.88	-96.42	18.71	0.16	13.35
46	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
47	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
48	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
49	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
50	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
51	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
52	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 30 NUDO 10

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
42	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
43	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
44	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
45	3.00	0.80	0.03	0.00	0.00	45.79	-116.80	9.74	0.19	27.78
46	3.00	0.80	0.03	0.00	0.00	48.54	-20.12	0.08	0.20	27.78
47	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78
48	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
49	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78
50	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
51	3.00	0.80	0.03	0.00	0.00	40.99	-115.71	9.82	0.17	27.78
52	3.00	0.80	0.03	0.00	0.00	46.13	2.71	0.19	-1.53	27.78

proc Seccion transversal (sin pretensado de almas)

BARRA 29 NUDO 7

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
42	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
43	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
44	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
45	3.00	0.40	0.03	0.00	0.00	34.53	-77.40	14.78	0.14	13.35
46	3.00	0.40	0.03	0.00	0.00	37.28	-1.39	-1.22	0.16	13.35
47	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35
48	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
49	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35
50	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
51	3.00	0.40	0.03	0.00	0.00	30.85	-77.82	15.01	0.13	13.35
52	3.00	0.40	0.03	0.00	0.00	36.00	10.20	0.15	0.64	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 29 NUDO 8

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
42	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
43	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
44	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
45	3.00	0.40	0.03	0.00	0.00	38.87	-96.42	18.71	0.16	13.35
46	3.00	0.40	0.03	0.00	0.00	41.63	-10.04	0.38	0.17	13.35
47	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
48	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
49	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35
50	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
51	3.00	0.40	0.03	0.00	0.00	34.77	-96.16	18.81	0.14	13.35
52	3.00	0.40	0.03	0.00	0.00	39.91	6.71	0.17	-0.24	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 28 NUDO 4

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
42	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
43	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
44	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
45	1.10	0.40	0.03	0.00	0.00	19.76	-1.10	-1.56	0.22	13.35
46	1.10	0.40	0.03	0.00	0.00	22.51	26.91	0.26	12.88	13.35
47	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35
48	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.03	0.20	13.35
49	1.10	0.40	0.03	0.00	0.00	20.35	25.10	0.23	12.06	13.35
50	1.10	0.40	0.03	0.00	0.00	19.92	-2.28	-0.92	0.23	13.35
51	1.10	0.40	0.03	0.00	0.00	17.56	-3.50	0.03	0.20	13.35
52	1.10	0.40	0.03	0.00	0.00	22.71	26.33	0.26	12.52	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 28 NUDO 7

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
42	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
43	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
44	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
45	1.10	0.40	0.03	0.00	0.00	34.53	-77.40	42.75	0.39	13.35
46	1.10	0.40	0.03	0.00	0.00	37.28	-1.39	-3.31	0.42	13.35
47	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35
48	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
49	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35
50	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
51	1.10	0.40	0.03	0.00	0.00	30.85	-77.82	43.38	0.35	13.35
52	1.10	0.40	0.03	0.00	0.00	36.00	10.20	0.41	1.81	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 27 NUDO 2

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
42	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
43	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
44	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
45	3.00	0.40	0.03	0.00	0.00	16.53	9.38	0.07	1.25	13.35
46	3.00	0.40	0.03	0.00	0.00	19.28	29.67	0.08	5.32	13.35
47	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35
48	3.00	0.40	0.03	0.00	0.00	14.65	6.83	0.06	0.80	13.35
49	3.00	0.40	0.03	0.00	0.00	17.44	27.35	0.07	4.91	13.35
50	3.00	0.40	0.03	0.00	0.00	17.01	8.42	0.07	1.03	13.35
51	3.00	0.40	0.03	0.00	0.00	14.65	6.83	0.06	0.80	13.35
52	3.00	0.40	0.03	0.00	0.00	19.80	28.94	0.08	5.14	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 27 NUDO 4

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
42	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
43	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
44	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
45	3.00	0.40	0.03	0.00	0.00	19.76	-1.10	-0.57	0.08	13.35
46	3.00	0.40	0.03	0.00	0.00	22.51	26.91	0.09	4.62	13.35
47	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35
48	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.01	0.07	13.35
49	3.00	0.40	0.03	0.00	0.00	20.35	25.10	0.08	4.33	13.35
50	3.00	0.40	0.03	0.00	0.00	19.92	-2.28	-0.34	0.08	13.35
51	3.00	0.40	0.03	0.00	0.00	17.56	-3.50	0.01	0.07	13.35
52	3.00	0.40	0.03	0.00	0.00	22.71	26.33	0.09	4.49	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 26 NUDO 1

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
42	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
43	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
44	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
45	3.00	0.40	0.03	0.00	0.00	15.51	14.42	0.06	2.32	13.35
46	3.00	0.40	0.03	0.00	0.00	17.66	30.48	0.07	5.55	13.35
47	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35
48	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
49	3.00	0.40	0.03	0.00	0.00	15.96	27.94	0.07	5.09	13.35
50	3.00	0.40	0.03	0.00	0.00	16.21	13.78	0.07	2.16	13.35
51	3.00	0.40	0.03	0.00	0.00	13.81	11.87	0.06	1.87	13.35
52	3.00	0.40	0.03	0.00	0.00	18.36	29.85	0.08	5.39	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 26 NUDO 2

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
42	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
43	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
44	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
45	3.00	0.40	0.03	0.00	0.00	17.29	9.38	0.07	1.22	13.35
46	3.00	0.40	0.03	0.00	0.00	19.44	29.67	0.08	5.31	13.35
47	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35
48	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
49	3.00	0.40	0.03	0.00	0.00	17.56	27.35	0.07	4.90	13.35
50	3.00	0.40	0.03	0.00	0.00	17.81	8.42	0.07	1.00	13.35
51	3.00	0.40	0.03	0.00	0.00	15.41	6.83	0.06	0.77	13.35
52	3.00	0.40	0.03	0.00	0.00	19.96	28.94	0.08	5.14	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 25 NUDO 3

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
42	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
43	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
44	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
45	3.00	0.40	0.03	0.00	0.00	17.50	16.34	0.07	2.64	13.35
46	3.00	0.40	0.03	0.00	0.00	14.88	28.06	0.06	5.16	13.35
47	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
48	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
49	3.00	0.40	0.03	0.00	0.00	13.31	25.63	0.06	4.72	13.35
50	3.00	0.40	0.03	0.00	0.00	18.73	16.01	0.08	2.52	13.35
51	3.00	0.40	0.03	0.00	0.00	16.14	14.09	0.07	2.23	13.35
52	3.00	0.40	0.03	0.00	0.00	15.90	27.55	0.07	5.01	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 25 NUDO 1

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
42	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
43	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
44	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
45	3.00	0.40	0.03	0.00	0.00	19.31	14.42	0.08	2.17	13.35
46	3.00	0.40	0.03	0.00	0.00	16.70	30.48	0.07	5.59	13.35
47	3.00	0.40	0.03	0.00	0.00	20.37	13.78	0.08	2.00	13.35
48	3.00	0.40	0.03	0.00	0.00	14.95	27.94	0.06	5.13	13.35
49	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35
50	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
51	3.00	0.40	0.03	0.00	0.00	17.78	11.87	0.07	1.71	13.35
52	3.00	0.40	0.03	0.00	0.00	17.53	29.85	0.07	5.42	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 24 NUDO 5

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
42	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
43	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
44	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
45	3.00	0.40	0.03	0.00	0.00	16.08	14.49	0.07	2.31	13.35
46	3.00	0.40	0.03	0.00	0.00	8.46	22.87	0.04	4.34	13.35
47	3.00	0.40	0.03	0.00	0.00	17.73	14.25	0.07	2.20	13.35
48	3.00	0.40	0.03	0.00	0.00	7.38	20.85	0.03	3.97	13.35
49	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35
50	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
51	3.00	0.40	0.03	0.00	0.00	15.42	12.77	0.06	1.99	13.35
52	3.00	0.40	0.03	0.00	0.00	9.68	22.33	0.04	4.18	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 24 NUDO 3

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
42	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
43	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
44	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
45	3.00	0.40	0.03	0.00	0.00	17.48	16.34	0.07	2.64	13.35
46	3.00	0.40	0.03	0.00	0.00	9.86	28.06	0.04	5.36	13.35
47	3.00	0.40	0.03	0.00	0.00	18.99	16.01	0.08	2.51	13.35
48	3.00	0.40	0.03	0.00	0.00	8.64	25.63	0.04	4.90	13.35
49	3.00	0.40	0.03	0.00	0.00	10.95	27.55	0.05	5.21	13.35
50	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
51	3.00	0.40	0.03	0.00	0.00	16.68	14.09	0.07	2.21	13.35
52	3.00	0.40	0.03	0.00	0.00	10.95	27.55	0.05	5.21	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 23 NUDO 6

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
42	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
43	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
44	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
45	3.00	0.40	0.03	0.00	0.00	11.98	10.37	0.05	1.63	13.35
46	3.00	0.40	0.03	0.00	0.00	1.69	17.46	0.01	3.50	13.35
47	3.00	0.40	0.03	0.00	0.00	13.64	9.95	0.06	1.48	13.35
48	3.00	0.40	0.03	0.00	0.00	1.20	15.94	0.00	3.21	13.35
49	3.00	0.40	0.03	0.00	0.00	2.85	16.72	0.01	3.30	13.35
50	3.00	0.40	0.03	0.00	0.00	12.00	9.17	0.05	1.39	13.35
51	3.00	0.40	0.03	0.00	0.00	12.00	9.17	0.05	1.39	13.35
52	3.00	0.40	0.03	0.00	0.00	2.85	16.72	0.01	3.30	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 23 NUDO 5

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
42	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
43	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
44	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
45	3.00	0.40	0.03	0.00	0.00	12.52	14.49	0.05	2.46	13.35
46	3.00	0.40	0.03	0.00	0.00	2.23	22.87	0.01	4.59	13.35
47	3.00	0.40	0.03	0.00	0.00	14.13	14.25	0.06	2.34	13.35
48	3.00	0.40	0.03	0.00	0.00	1.69	20.85	0.01	4.20	13.35
49	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35
50	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.10	13.35
51	3.00	0.40	0.03	0.00	0.00	12.48	12.77	0.05	2.10	13.35
52	3.00	0.40	0.03	0.00	0.00	3.33	22.33	0.01	4.43	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 22 NUDO 9

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
42	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
43	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
44	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
45	3.00	0.40	0.03	0.00	0.00	10.25	2.38	0.04	0.07	13.35
46	3.00	0.40	0.03	0.00	0.00	-0.24	6.98	0.00	1.43	13.35
47	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
48	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35
49	3.00	0.40	0.03	0.00	0.00	0.98	5.95	0.00	1.17	13.35
50	3.00	0.40	0.03	0.00	0.00	10.45	2.16	0.04	0.02	13.35
51	3.00	0.40	0.03	0.00	0.00	11.98	1.68	0.05	-0.14	13.35
52	3.00	0.40	0.03	0.00	0.00	-0.55	6.43	0.00	1.33	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 22 NUDO 6

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
42	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
43	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
44	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
45	3.00	0.40	0.03	0.00	0.00	11.29	10.37	0.05	1.66	13.35
46	3.00	0.40	0.03	0.00	0.00	0.81	17.46	0.00	3.53	13.35
47	3.00	0.40	0.03	0.00	0.00	12.92	9.95	0.05	1.51	13.35
48	3.00	0.40	0.03	0.00	0.00	0.39	15.94	0.00	3.24	13.35
49	3.00	0.40	0.03	0.00	0.00	1.92	16.72	0.01	3.34	13.35
50	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
51	3.00	0.40	0.03	0.00	0.00	11.39	9.17	0.05	1.41	13.35
52	3.00	0.40	0.03	0.00	0.00	1.92	16.72	0.01	3.34	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 21 NUDO 11

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
42	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
43	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
44	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
45	3.00	0.40	0.03	0.00	0.00	8.95	-0.80	-0.20	0.04	13.35
46	3.00	0.40	0.03	0.00	0.00	-1.62	1.27	0.01	0.32	13.35
47	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
48	3.00	0.40	0.03	0.00	0.00	-1.80	1.21	0.01	0.32	13.35
49	3.00	0.40	0.03	0.00	0.00	-1.80	1.21	0.01	0.32	13.35
50	3.00	0.40	0.03	0.00	0.00	10.79	-1.32	-0.17	0.04	13.35
51	3.00	0.40	0.03	0.00	0.00	9.26	-1.44	-0.08	0.04	13.35
52	3.00	0.40	0.03	0.00	0.00	-0.26	1.33	0.00	0.28	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 21 NUDO 9

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
42	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
43	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
44	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
45	3.00	0.40	0.03	0.00	0.00	10.02	2.38	0.04	0.08	13.35
46	3.00	0.40	0.03	0.00	0.00	-0.56	6.98	0.00	1.44	13.35
47	3.00	0.40	0.03	0.00	0.00	11.75	1.68	0.05	-0.13	13.35
48	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35
49	3.00	0.40	0.03	0.00	0.00	0.66	5.95	0.00	1.18	13.35
50	3.00	0.40	0.03	0.00	0.00	10.25	2.16	0.04	0.03	13.35
51	3.00	0.40	0.03	0.00	0.00	11.75	1.68	0.05	-0.13	13.35
52	3.00	0.40	0.03	0.00	0.00	-0.84	6.43	0.00	1.34	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 20 NUDO 14

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
43	0.20	0.40	0.03	0.00	0.00	-1.70	-0.04	1.08	0.83	14.43
44	0.20	0.40	0.03	0.00	0.00	8.95	0.07	0.56	-5.16	13.35
45	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.60	0.21	13.35
46	0.20	0.40	0.03	0.00	0.00	1.82	0.10	0.11	-0.81	13.35
47	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
49	0.20	0.40	0.03	0.00	0.00	-1.87	-0.04	1.17	0.93	14.43
50	0.20	0.40	0.03	0.00	0.00	10.81	0.03	0.68	-6.40	13.35
51	0.20	0.40	0.03	0.00	0.00	4.22	-0.43	-1.23	0.26	13.35
52	0.20	0.40	0.03	0.00	0.00	2.88	0.35	0.18	-0.67	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 20 NUDO 11

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
43	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
44	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
45	0.20	0.40	0.03	0.00	0.00	8.98	-0.80	-2.93	0.56	13.35
46	0.20	0.40	0.03	0.00	0.00	-1.67	1.27	0.10	4.91	13.35
47	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
49	0.20	0.40	0.03	0.00	0.00	-1.84	1.21	0.11	4.82	13.35
50	0.20	0.40	0.03	0.00	0.00	10.84	-1.32	-2.41	0.68	13.35
51	0.20	0.40	0.03	0.00	0.00	9.30	-1.44	-1.13	0.58	13.35
52	0.20	0.40	0.03	0.00	0.00	-0.30	1.33	0.02	4.26	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 19 NUDO 16

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
43	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
44	0.20	0.40	0.03	0.00	0.00	8.96	0.50	0.56	-3.85	13.35
45	0.20	0.40	0.03	0.00	0.00	-1.75	-0.69	3.17	0.11	13.35
46	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
47	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
49	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
50	0.20	0.40	0.03	0.00	0.00	10.83	0.69	0.68	-4.36	13.35
51	0.20	0.40	0.03	0.00	0.00	-1.91	-0.66	3.17	0.12	13.35
52	0.20	0.40	0.03	0.00	0.00	7.14	0.28	0.45	-3.42	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 19 NUDO 14

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
43	0.20	0.40	0.03	0.00	0.00	-1.73	-0.04	1.10	0.85	14.43
44	0.20	0.40	0.03	0.00	0.00	8.97	0.07	0.56	-5.18	13.35
45	0.20	0.40	0.03	0.00	0.00	3.39	-0.15	-1.59	0.21	13.35
46	0.20	0.40	0.03	0.00	0.00	1.81	0.10	0.11	-0.80	13.35
47	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
49	0.20	0.40	0.03	0.00	0.00	-1.90	-0.04	1.19	0.95	14.43
50	0.20	0.40	0.03	0.00	0.00	10.84	0.03	0.68	-6.42	13.35
51	0.20	0.40	0.03	0.00	0.00	4.23	-0.43	-1.23	0.26	13.35
52	0.20	0.40	0.03	0.00	0.00	2.87	0.35	0.18	-0.66	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 18 NUDO 18

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
43	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
44	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
45	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
46	0.20	0.40	0.03	0.00	0.00	4.86	0.07	0.30	-2.70	13.35
47	0.20	0.40	0.03	0.00	0.00	10.83	0.94	0.68	-3.58	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
49	0.20	0.40	0.03	0.00	0.00	-0.39	-0.65	2.23	0.02	13.35
50	0.20	0.40	0.03	0.00	0.00	9.30	0.75	0.58	-3.27	13.35
51	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
52	0.20	0.40	0.03	0.00	0.00	7.14	0.41	0.45	-3.05	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 18 NUDO 16

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
43	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
44	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
45	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
46	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
47	0.20	0.40	0.03	0.00	0.00	10.84	0.69	0.68	-4.36	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
49	0.20	0.40	0.03	0.00	0.00	-0.38	-0.39	1.41	0.02	13.35
50	0.20	0.40	0.03	0.00	0.00	9.30	0.42	0.58	-4.29	13.35
51	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
52	0.20	0.40	0.03	0.00	0.00	7.15	0.29	0.45	-3.43	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 17 NUDO 19

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
43	0.20	0.40	0.03	0.00	0.00	8.97	0.50	0.56	-3.86	13.35
44	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
45	0.20	0.40	0.03	0.00	0.00	-1.76	-0.69	3.18	0.11	13.35
46	0.20	0.40	0.03	0.00	0.00	4.86	0.04	0.30	-2.80	13.35
47	0.20	0.40	0.03	0.00	0.00	10.84	0.69	0.68	-4.36	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
49	0.20	0.40	0.03	0.00	0.00	9.30	0.42	0.58	-4.29	13.35
50	0.20	0.40	0.03	0.00	0.00	-0.39	-0.39	1.41	0.02	13.35
51	0.20	0.40	0.03	0.00	0.00	-1.92	-0.66	3.18	0.12	13.35
52	0.20	0.40	0.03	0.00	0.00	7.15	0.28	0.45	-3.43	13.35

proc Seccion transversal (sin pretensado de almas)

BARRA 17 NUDO 18

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
42	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
43	0.20	0.40	0.03	0.00	0.00	8.96	0.67	0.56	-3.32	13.35
44	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
45	0.20	0.40	0.03	0.00	0.00	-1.76	-0.88	3.78	0.11	13.35
46	0.20	0.40	0.03	0.00	0.00	4.86	0.07	0.30	-2.70	13.35
47	0.20	0.40	0.03	0.00	0.00	10.83	0.94	0.68	-3.58	13.35
48	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
49	0.20	0.40	0.03	0.00	0.00	9.30	0.75	0.58	-3.27	13.35
50	0.20	0.40	0.03	0.00	0.00	-0.39	-0.65	2.24	0.02	13.35
51	0.20	0.40	0.03	0.00	0.00	-1.93	-0.84	3.76	0.12	13.35
52	0.20	0.40	0.03	0.00	0.00	7.14	0.41	0.45	-3.05	13.35

Estudio de las hipótesis de carga antimétrica

ESTUDIO DE LA HIPOTESIS DE CARGAS ASIMETRICAS

OBJETO

Se pretende estudiar el comportamiento de la sección transversal frente a flexión no simétrica debido al carácter diferencial de la sección transversal frente a esfuerzos solicitantes.

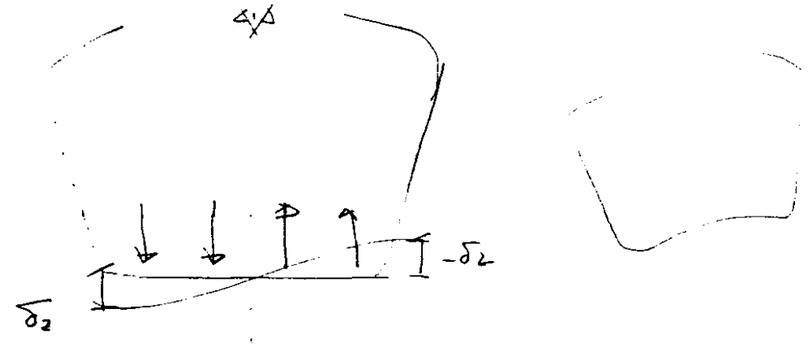
METODOLOGIA

A partir de la hipótesis cinemática del modelo de Elemento Finito se obtiene el desplazamiento transversal resultante por una carga de 'giro de torsión' por la incorporación del modelo de Sección Transversal

1. Hipótesis cinemática en el MEF

En el MEF es posible obtener el desplazamiento relativo de los 2 ejes entre una sección cualquiera a medio calculo en esta vía

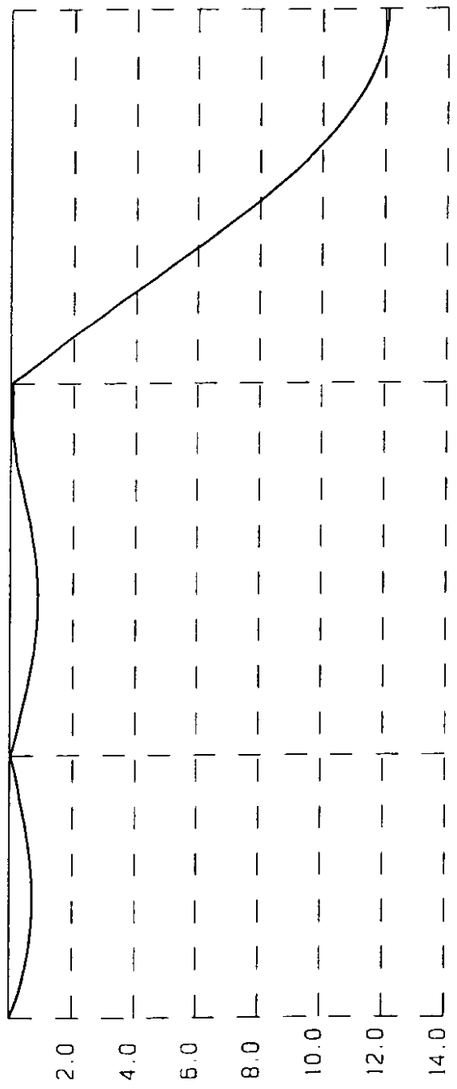
- Hipótesis cinemática



- La ley de desplazamiento por la coherencia corresponde al desplazamiento δ_2

- En la fase del cálculo a vano (giro rígido) el desplazamiento resultante será

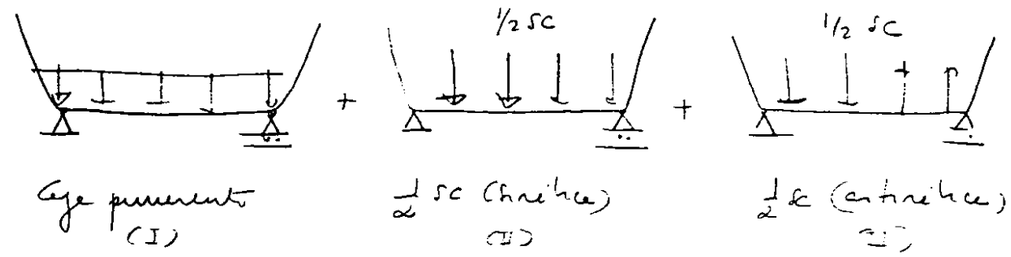
$$(\delta_2)_{res} = 12.0 \text{ mm} = 12\,0\,10^{-3}\,\text{m}$$



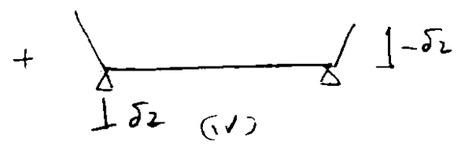
DESPLAZAMIENTOS DE ALMAS EN MM.
Hipotesis antimetrica de medio sobrecarga

2.- Hipótesis Antimétrica en el Modelo Transversal

En el Modelo transversal la hipótesis antimétrica corresponderá a la suma de las siguientes hipótesis



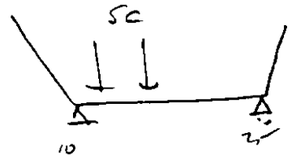
Caso permanente (I) $\frac{1}{2}$ SC (Antimétrica) (II) $\frac{1}{2}$ SC (antimétrica) (III)



(IV)

disp. hipótesis antimétrica

. Las hipótesis (II+III) puede agrupar, a efect de flexión en la correspondiente a la SC. en 1 vía



```
estr Seccion transversal (intermedia con costilla)
nume de nudo   34
nume de barr   34
nume de hipo   2
nume de apoy    2
tipo port plan
list todo
coor de nudo
    1     -7.8207     7.5155
    2     -7.7400     7.1205
    3     -7.7191     7.9197
    4     -7.5493     6.4020
    5     -7.4052     8.2309
    6     -7.0008     8.3509
    7     -6.3615     1.9270
    8     -6.1049     0.9604
    9     -5.9339     8.5831
   10     -5.8500     0.0000 desp x y
   11     -4.5537     8.8192
   12     -4.2313     0.0000
   13     -3.0036     0.0000
   14     -2.8511     9.0225
   15     -1.4964     0.0000
   16     -1.3470     9.1228
   17      0.0000     0.0000
   18      0.0000     9.1571
   19      1.3470     9.1228
   20      1.4964     0.0000
   21      2.8511     9.0225
   22      3.0036     0.0000
   23      4.2313     0.0000
   24      4.5537     8.8192
   25      5.8500     0.0000 desp y
   26      5.9339     8.5831
   27      6.1049     0.9604
   28      6.3615     1.9270
   29      7.0008     8.3509
   30      7.4052     8.2309
   31      7.5493     6.4020
   32      7.7191     7.9197
   33      7.7400     7.1205
   34      7.8207     7.5155
inci de barr
    1   17   20
    2   20   22
    3   22   23
    4   23   25
    5   25   27
    6   27   28
    7   28   31
    8   31   33
    9   33   34
   10   34   32
   11   32   30
   12   30   29
   13   29   26
   14   26   24
   15   24   21
   16   21   19
   17   19   18
   18   18   16
   19   16   14
   20   14   11
   21   11    9
   22    9    6
   23    6    5
   24    5    3
   25    3    1
   26    1    2
   27    2    4
   28    4    7
   29    7    8
   30    8   10
   31   10   12
   32   12   13
   33   13   15
   34   15   17
nate de barr
    1 a   34    1
prop de barr pris
    1 1.4624 0.5592 0.1185
    2 1.3276 0.5071 0.0828
    3 1.1563 0.4192 0.0421
    4 0.9590 0.2870 0.0131
    5 1.9200 1.6271 0.0655
    6 1.2000 1.0169 0.0160
    7 0.8800 0.7458 0.0117
  8 a 14 1.2000 1.0169 0.0160
 15 a 20 0.0400 0.0339 0.0001
 21 a 27 1.2000 1.0169 0.0160
   28 0.8800 0.7458 0.0117
   29 1.2000 1.0169 0.0160
   30 1.9200 1.6271 0.0655
   31 0.9590 0.2870 0.0131
   32 1.1563 0.4192 0.0421
   33 1.3276 0.5071 0.0828
   34 1.4624 0.5592 0.1185
cons de nate
    1 3677000. 1532000. 2.5
hipo 70 S.C. Tren-B (via izquierda) + desp. torsion
carg en barr
32 fuer y unif -16.20 0.3712 0.
33 fuer y unif -16.20
34 fuer y unif -16.20 0. 0.8580
desp de nudo
10 desp y -0.012
25 desp y  0.012
hipo 71 desplazamiento de torsion (+-0.012 m.)
desp de nudo
10 desp y -0.012
25 desp y  0.012
calcula y almacena
problema bien definido, empieza la ejecucion
```

estr Seccion transversal (intermedia con costilla)

hipo 70 S.C. Tren-8 (via izquierda) + desp. torsion

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
1	17	-2.0525	-16.0396	-75.4670
1	20	2.0525	16.0396	51.4654
2	20	-2.0525	-16.0397	-51.4653
2	22	2.0525	16.0397	27.2903
3	22	-2.0525	-16.0397	-27.2902
3	23	2.0525	16.0397	7.5983
4	23	-2.0525	-16.0396	-7.5982
4	25	2.0525	16.0396	-18.3652
5	25	-0.4998	1.9907	18.3651
5	27	0.4998	-1.9907	-16.3868
6	27	-0.5036	1.9897	16.3867
6	28	0.5036	-1.9897	-14.3969
7	28	-0.5047	1.9896	14.3969
7	31	0.5047	-1.9896	-5.1850
8	31	-0.5024	1.9891	5.1847
8	33	0.5024	-1.9891	-3.7060
9	33	-0.3893	2.0175	3.7060
9	34	0.3893	-2.0175	-2.8937
10	34	0.5211	1.9840	2.8934
10	32	-0.5211	-1.9840	-2.0660
11	32	1.4733	1.4288	2.0661
11	30	-1.4733	-1.4288	-1.4346
12	30	1.9813	0.5604	1.4348
12	29	-1.9813	-0.5604	-1.1975
13	29	2.0071	0.4142	1.1975
13	26	-2.0071	-0.4142	-0.7451
14	26	2.0277	0.3238	0.7452
14	24	-2.0277	-0.3238	-0.2922
15	24	2.0407	0.2207	0.2921
15	21	-2.0407	-0.2207	0.0863
16	21	2.0495	0.1138	-0.0863
16	19	-2.0495	-0.1138	0.2578
17	19	2.0523	0.0294	-0.2578
17	18	-2.0523	-0.0294	0.2975
18	18	2.0512	-0.0751	-0.2975
18	16	-2.0512	0.0751	0.1964
19	16	2.0464	-0.1593	-0.1964
19	14	-2.0464	0.1593	-0.0438
20	14	2.0353	-0.2660	0.0438
20	11	-2.0353	0.2660	-0.5000
21	11	2.0211	-0.3685	0.4999
21	9	-2.0211	0.3685	-1.0160
22	9	2.0014	-0.4586	1.0161
22	6	-2.0014	0.4586	-1.5169
23	6	1.9556	-0.6068	1.5171
23	5	-1.9556	0.6068	-1.7725
24	5	1.4429	-1.4612	1.7726
24	3	-1.4429	1.4612	-2.4184
25	3	0.4798	-1.9949	2.4187
25	1	-0.4798	1.9949	-3.2499
26	1	-0.4275	-2.0063	3.2504
26	2	0.4275	2.0063	-4.0590
27	2	-0.5518	-1.9779	4.0594
27	4	0.5518	1.9779	-5.5299
28	4	-0.5485	-1.9779	5.5296
28	7	0.5485	1.9779	-14.6874
29	7	-0.5494	-1.9780	14.6873
29	8	0.5494	1.9780	-16.6655
30	8	-0.5485	-1.9769	16.6654
30	10	0.5485	1.9769	-18.6297
31	10	-2.0525	36.1518	18.6296
31	12	2.0525	-36.1518	39.8895
32	12	-2.0525	36.1520	-39.8895
32	13	2.0525	-22.2767	78.3309
33	13	-2.0525	22.2764	-78.3309
33	15	2.0525	2.1402	93.5057
34	15	-2.0525	-2.1401	-93.5057
34	17	2.0525	16.0397	75.4670

CARGAS APLICADAS EN LOS NUDOS LIBRES

NUDO	FUER. X	FUER. Y	MOM. Z
1	0.0004	-0.0038	0.0005
2	-0.0020	0.0087	0.0005
3	0.0018	-0.0008	0.0003
4	0.0008	-0.0032	-0.0003
5	-0.0061	-0.0036	0.0000
6	0.0058	0.0030	0.0002
7	-0.0003	0.0008	0.0000
8	0.0014	-0.0005	-0.0001
9	0.0012	0.0001	0.0001
11	-0.0019	-0.0004	0.0000
12	0.0000	0.0001	0.0000
13	0.0000	-0.0003	0.0001
14	0.0000	0.0000	0.0000
15	0.0000	0.0001	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0001	0.0000
18	0.0000	0.0000	0.0000
19	0.0001	0.0000	0.0000
20	0.0000	-0.0001	0.0001
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0001

23	0.0000	0.0001	0.0000
24	0.0008	0.0000	0.0000
26	-0.0040	0.0006	0.0001
27	0.0000	-0.0038	-0.0001
28	-0.0002	-0.0011	0.0000
29	0.0096	-0.0042	0.0000
30	-0.0067	0.0038	0.0002
31	0.0011	0.0020	-0.0003
32	-0.0010	0.0009	0.0001
33	-0.0032	-0.0022	-0.0001
34	0.0035	-0.0007	-0.0003

REACCIONES EN LOS APOYOS

NUDO	FUER. X	FUER. Y	MOM. Z
10	-0.0011	36.1288	-0.0001
25	0.0001	16.0671	0.0000

DESPLAZAMIENTOS DE LOS NUDOS LIBRES

NUDO	DESP. X	DESP. Y	GIRO Z
1	-0.0114986	-0.0149977	0.0022165
2	-0.0106274	-0.0148197	0.0021915
3	-0.0123993	-0.0147713	0.0022366
4	-0.0090725	-0.0144071	0.0021309
5	-0.0130983	-0.0140665	0.0022523
6	-0.0133696	-0.0131531	0.0022641
7	-0.0015955	-0.0124233	0.0010430
8	-0.0007122	-0.0121890	0.0007765
9	-0.0138988	-0.0107239	0.0022876
11	-0.0144419	-0.0075525	0.0023057
12	0.0000009	-0.0109702	0.0010609
13	0.0000015	-0.0094637	0.0015423
14	-0.0151002	-0.0022398	0.0035736
15	0.0000022	-0.0068361	0.0019828
16	-0.0154724	0.0030268	0.0032609
17	0.0000027	-0.0036179	0.0022793
18	-0.0155886	0.0068529	0.0023561
19	-0.0155445	0.0093247	0.0013386
20	0.0000033	-0.0000058	0.0024973
21	-0.0154727	0.0107177	0.0006333
22	0.0000039	0.0039511	0.0026922
23	0.0000045	0.0073879	0.0028305
24	-0.0153495	0.0119497	0.0011133
26	-0.0150861	0.0134934	0.0011256
27	-0.0025034	0.0126659	0.0025779
28	-0.0048648	0.0132929	0.0023163
29	-0.0148233	0.0147030	0.0011437
30	-0.0146858	0.0151673	0.0011531
31	-0.0124949	0.0153189	0.0012626
32	-0.0143254	0.0155310	0.0011662
33	-0.0133798	0.0155539	0.0012064
34	-0.0138512	0.0156502	0.0011838

DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	GIRO Z
10	0.0000000	-0.0120000	0.0007037
25	0.0000055	0.0120000	0.0026496

estr Seccion transversal (intermedia con costilla)

hipo 71 desplazamiento de torsion (+-0.012 m.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z
1	17	0.0000	-0.0003	0.0000
1	20	0.0000	0.0003	-0.0002
2	20	0.0000	-0.0002	0.0003
2	22	0.0000	0.0002	-0.0006
3	22	0.0000	-0.0001	0.0007
3	23	0.0000	0.0001	-0.0009
4	23	0.0000	-0.0002	0.0010
4	25	0.0000	0.0002	-0.0013
5	25	-0.0006	0.0008	0.0014
5	27	0.0006	-0.0008	0.0000
6	27	0.0013	0.0001	-0.0001
6	28	-0.0013	-0.0001	0.0001
7	28	0.0000	0.0000	-0.0001
7	31	0.0000	0.0000	0.0001
8	31	-0.0015	-0.0008	-0.0002
8	33	0.0015	0.0008	-0.0001
9	33	-0.0053	0.0013	0.0004
9	34	0.0053	-0.0013	0.0004
10	34	0.0076	-0.0013	-0.0003
10	32	-0.0076	0.0013	-0.0001
11	32	-0.0012	0.0000	0.0000
11	30	0.0012	0.0000	0.0000
12	30	0.0031	-0.0005	0.0000
12	29	-0.0031	0.0005	0.0004
13	29	0.0004	0.0001	-0.0001
13	26	-0.0004	-0.0001	0.0000
14	26	0.0019	0.0000	-0.0001
14	24	-0.0019	0.0000	0.0000
15	24	0.0001	0.0000	0.0000
15	21	-0.0001	0.0000	0.0000
16	21	0.0000	0.0000	0.0000
16	19	0.0000	0.0000	0.0000
17	19	0.0000	0.0000	0.0000
17	18	0.0000	0.0000	0.0000
18	18	0.0000	0.0000	0.0000
18	16	0.0000	0.0000	0.0000
19	16	0.0000	0.0000	0.0000
19	14	0.0000	0.0000	0.0000
20	14	0.0001	0.0000	0.0000
20	11	-0.0001	0.0000	0.0000
21	11	0.0019	0.0000	0.0000
21	9	-0.0019	0.0000	0.0000
22	9	0.0004	0.0001	0.0000
22	6	-0.0004	-0.0001	-0.0001
23	6	0.0031	-0.0015	-0.0004
23	5	-0.0031	0.0015	-0.0001
24	5	-0.0012	0.0000	0.0000
24	3	0.0012	0.0000	-0.0001
25	3	0.0076	0.0012	0.0001
25	1	-0.0076	-0.0012	-0.0002
26	1	-0.0053	0.0025	0.0006
26	2	0.0053	-0.0025	0.0005
27	2	-0.0015	0.0008	0.0002
27	4	0.0015	-0.0008	0.0001
28	4	0.0000	0.0000	0.0001
28	7	0.0000	0.0000	-0.0001
29	7	0.0013	0.0002	0.0000
29	8	-0.0013	-0.0002	-0.0001
30	8	-0.0016	0.0008	0.0000
30	10	0.0016	-0.0008	0.0012
31	10	0.0000	-0.0002	-0.0013
31	12	0.0000	0.0002	0.0010
32	12	0.0000	-0.0002	-0.0010
32	13	0.0000	0.0002	0.0007
33	13	0.0000	-0.0002	-0.0007
33	15	0.0000	0.0002	0.0002
34	15	0.0000	-0.0002	-0.0002
34	17	0.0000	0.0002	0.0000

CARGAS APLICADAS EN LOS NUDOS LIBRES

NUDO	FUER. X	FUER. Y	MOM. Z
1	0.0021	0.0133	0.0004
2	-0.0010	-0.0040	0.0007
3	-0.0016	-0.0085	0.0000
4	-0.0004	-0.0016	0.0002
5	0.0043	0.0003	0.0000
6	-0.0031	0.0008	-0.0005
7	0.0005	-0.0012	-0.0001
8	-0.0002	0.0029	-0.0001
9	0.0015	0.0001	0.0000
11	-0.0018	-0.0003	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	-0.0001	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0001	0.0001
21	0.0000	0.0000	0.0000
22	0.0000	0.0001	0.0001

23	0.0000	-0.0001	0.0000
24	0.0018	-0.0003	0.0000
26	-0.0015	0.0003	-0.0001
27	0.0012	0.0017	-0.0001
28	-0.0003	-0.0013	0.0000
29	0.0024	-0.0014	0.0003
30	-0.0037	0.0022	0.0001
31	0.0004	-0.0016	-0.0001
32	0.0015	-0.0085	-0.0001
33	-0.0028	-0.0033	0.0003
34	0.0018	0.0125	0.0001

REACCIONES EN LOS APOYOS

NUDO	FUER. X	FUER. Y	MOM. Z
10	-0.0003	-0.0020	-0.0001
25	-0.0010	-0.0002	0.0001

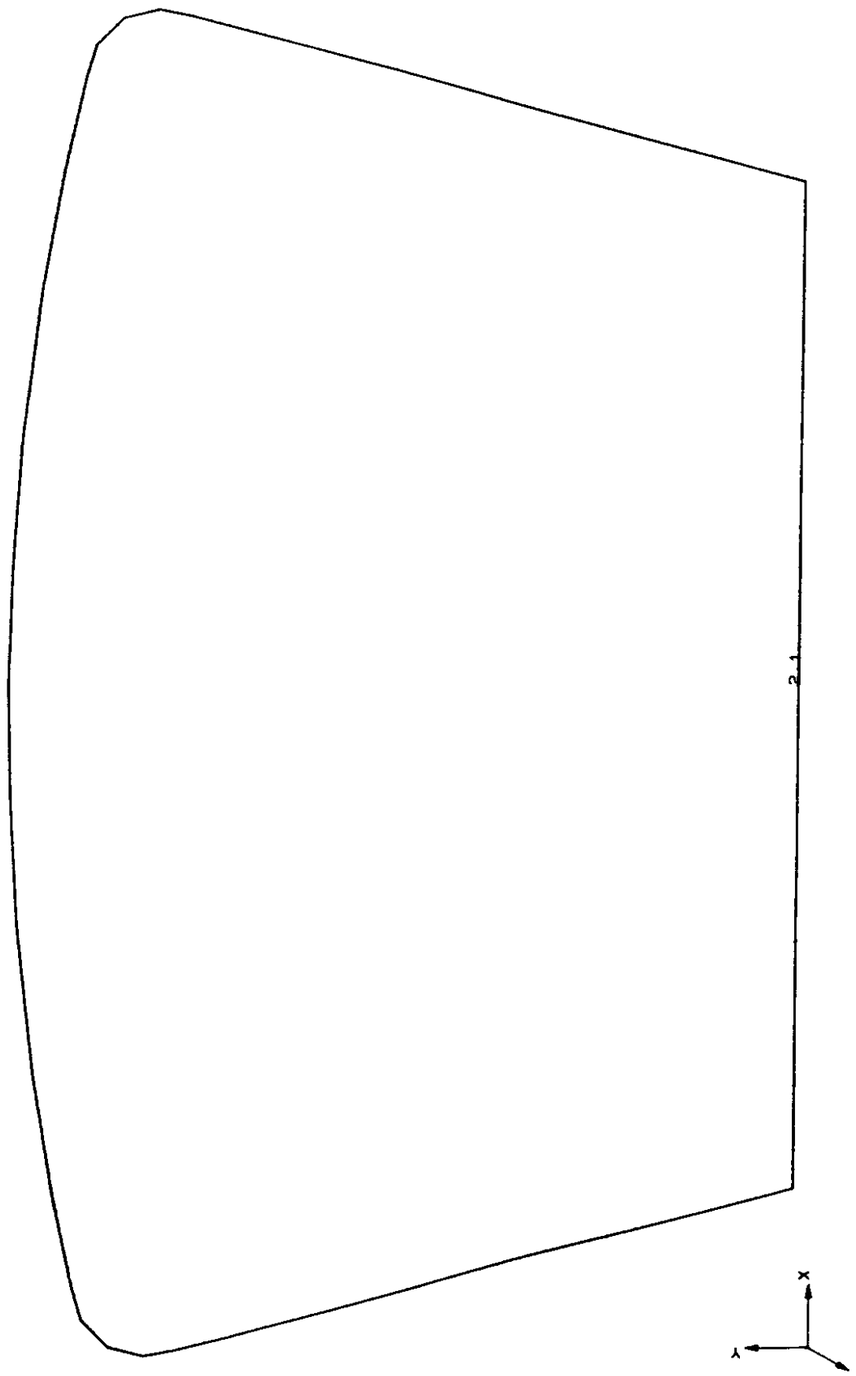
DESPLAZAMIENTOS DE LOS NUDOS LIBRES

NUDO	DESP. X	DESP. Y	GIRO Z
1	-0.0154162	-0.0160424	0.0020513
2	-0.0146059	-0.0158769	0.0020513
3	-0.0162453	-0.0158340	0.0020513
4	-0.0131321	-0.0154857	0.0020513
5	-0.0168836	-0.0151901	0.0020513
6	-0.0171298	-0.0143606	0.0020513
7	-0.0039527	-0.0130492	0.0020512
8	-0.0019700	-0.0125229	0.0020512
9	-0.0176061	-0.0121721	0.0020513
11	-0.0180904	-0.0093409	0.0020513
12	0.0000000	-0.0086796	0.0020513
13	0.0000000	-0.0061613	0.0020513
14	-0.0185074	-0.0058484	0.0020513
15	0.0000000	-0.0030696	0.0020513
16	-0.0187131	-0.0027631	0.0020513
17	0.0000000	0.0000000	0.0020513
18	-0.0187835	0.0000000	0.0020513
19	-0.0187131	0.0027631	0.0020513
20	0.0000000	0.0030696	0.0020513
21	-0.0185074	0.0058484	0.0020513
22	0.0000000	0.0061613	0.0020513
23	0.0000000	0.0086796	0.0020513
24	-0.0180904	0.0093409	0.0020513
26	-0.0176061	0.0121721	0.0020513
27	-0.0019700	0.0125229	0.0020512
28	-0.0039527	0.0130492	0.0020512
29	-0.0171298	0.0143606	0.0020513
30	-0.0168836	0.0151901	0.0020513
31	-0.0131321	0.0154857	0.0020513
32	-0.0162453	0.0158340	0.0020513
33	-0.0146059	0.0158769	0.0020513
34	-0.0154162	0.0160424	0.0020513

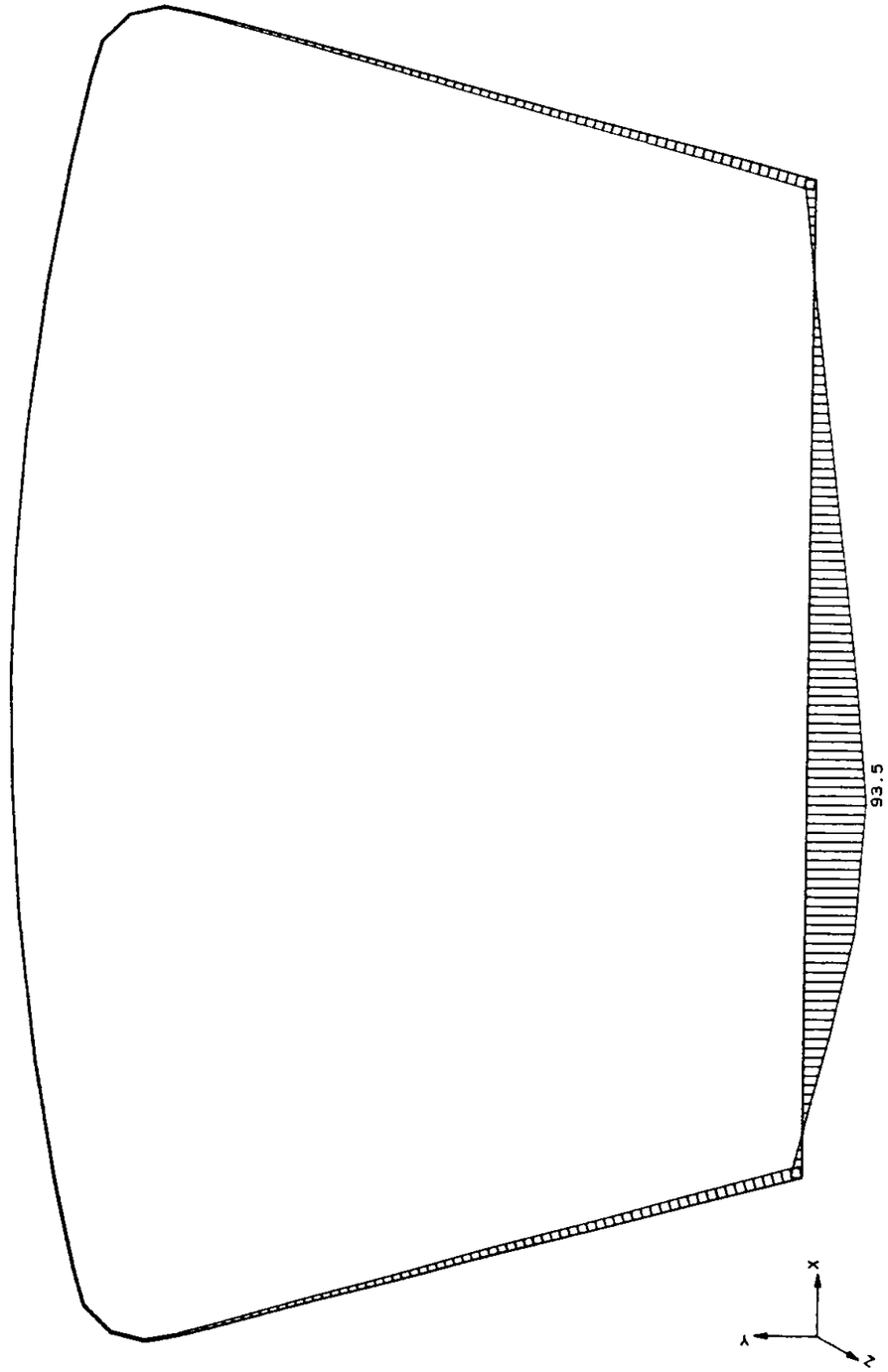
DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	GIRO Z
10	0.0000000	-0.0120000	0.0020512
25	0.0000000	0.0120000	0.0020512

proc Seccion transversal (sin pretensado de almas)
hipo 70 S.C. Tren-B (via izquierda) + desp. torsion fx 3(



proc Seccion transversal (sin pretensado de almas)
hipo 70 S.C. Tren-B (via izquierda) + desp. torsion mz 100.0



3.- Características respecto a la hipótesis de carga estructural

Dada la flexibilidad transversal a la estructura, la aplicación de los desplazamientos diferenciales debidos a los giros de torsión no introducen esfuerzos significativos a los obtenidos en la hipótesis de flexión transversal por lo que no es preciso incorporar ninguna consideración por este efecto.

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

CONSIDERACIONES SOBRE LA PRESENCIA DEL PRETENSADO DE VIGAS

OBJETO

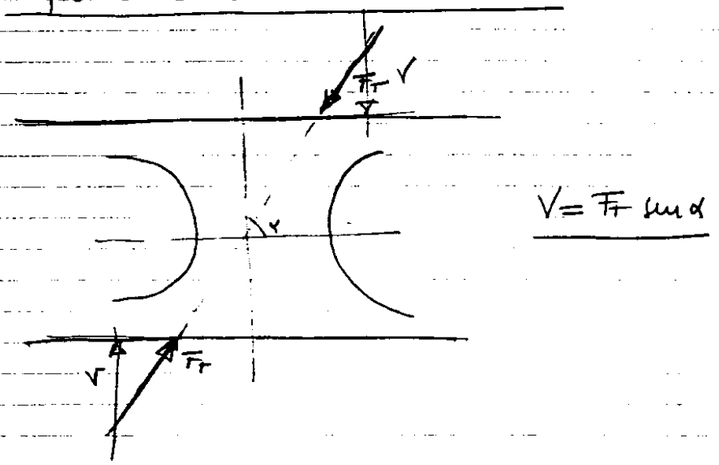
Se pretende analizar la influencia del pretensado de almas sobre la flexión transversal del eje así como en el estado tensional de las cabezas inferiores

METODOLOGÍA

- Se incluirán en el modelo de cálculo transversal los cables de pretensado a fin de conocer los efectos de las compresiones y excentricidades en las flexiones locales del alma
- Los valores de las fuerzas de pretensado serán corregidas para tener en cuenta:
  - El efecto de la inclinación de los cables que puede ser tenida en cuenta "proyectando" la dirección real sobre la vertical
  - El nº de cables de pretensado previamente se han introducido en cada eje de alma
  - El "ancho de reparto" sobre el que actúan cada uno

CORRECCION DEL VALOR DE LA FUERZA DE PRETENSADO

a). Efecto de la inclinación de los cables



$V = F_T \operatorname{sen}\alpha$

$\alpha = 53° \rightarrow \operatorname{sen}\alpha = 0.80 \qquad V = 0.80\, F_T$

b). Nº de cables de pretensado

Nº rincón $n = 4$
Nº viga $n = 2$

$V = \sum_{i=1}^{n} V_i$

c) Ancho de la sección

El ancho de la sección estudiada es $b = 3.0$ m existen los grupos de cables dispuestos cada 6.0 m.

$$\alpha = \frac{6.0}{3.0} = 2.0$$

La fuerza total vertical será

$$V = 0.80 \cdot n \cdot \frac{1}{2.0} \quad F_H = 0.40\, n\, F_i$$

Los cables de pretensado serán

$19\phi 0.6'' \quad F_i = 385\,T \quad A_p = 0.002850\ m^2$
(0.75 f_{pu})

Consideramos el efecto vigas de pretensado. $n = 4$

$F = 0.40 \cdot 385 = 154.0 \qquad n = 4$

estr Seccion transversal (intermedia con costilla)

==========

CABLE 1 BARRAS 23 A 30 TESADO IZQ. AREA 0.002850

FUERZA DE TESADO 154.00
FUERZA DE ANCLAJE 154.00
COEFICIENTE DE REDUCCION DE TENSION POR PERDIDAS ELASTICAS 0.9999
(NO ESTA APLICADO EN ESTE LISTADO PERO SI QUE LO ESTA EN LOS
ESFUERZOS DE PRETENSADO)

LONGITUD = 9.891 ALARGAMIENTO = 0.0194
(ESTE ALARGAMIENTO ES EL RESULTANTE ANTES DE ANCLAR EL CABLE)

ESTOS ALARGAMIENTOS ESTAN CALCULADOS ANTES DE ANCLAR

LA PENETRACION AL ANCLAR (IZDA.) ES = 0.0000
INCLUYENDO UNA PENETRACION DE CUNAS DE 0.0050

	X	Y	FUERZA	ANGULO
1	29.122	0.000	149.488	56.5859
2	29.446	0.421	145.339	40.9796
3	29.888	0.553	126.099	2.3964
4	30.305	0.552	121.229	-8.2019
5	30.708	0.430	115.521	-21.2134
6	31.451	0.150	114.173	-18.2872
7	36.081	-0.045	105.455	1.7609
8	37.081	-0.029	105.050	1.0610
9	38.075	0.000	104.645	1.7666

CABLE 2 BARRAS 5 A 12 TESADO DCH. AREA 0.002850

FUERZA DE TESADO 154.00
FUERZA DE ANCLAJE 154.00
COEFICIENTE DE REDUCCION DE TENSION POR PERDIDAS ELASTICAS 0.9999
(NO ESTA APLICADO EN ESTE LISTADO PERO SI QUE LO ESTA EN LOS
ESFUERZOS DE PRETENSADO)

LONGITUD = 9.891 ALARGAMIENTO = 0.0207
(ESTE ALARGAMIENTO ES EL RESULTANTE ANTES DE ANCLAR EL CABLE)

ESTOS ALARGAMIENTOS ESTAN CALCULADOS ANTES DE ANCLAR

LA PENETRACION AL ANCLAR (DCHA.) ES = 0.0000
INCLUYENDO UNA PENETRACION DE CUNAS DE 0.0050

	X	Y	FUERZA	ANGULO
1	5.850	0.000	104.645	-1.7666
2	6.844	-0.029	105.050	-1.0610
3	7.844	-0.045	105.455	-1.7609
4	12.474	0.150	114.173	18.2871
5	13.217	0.430	115.521	21.2134
6	13.620	0.552	121.229	8.2019
7	14.037	0.553	126.099	-2.3963
8	14.479	0.421	145.339	-40.9797
9	14.803	0.000	149.488	-56.5860

DATOS DE PRETENSADO PARA EL PROGRAMA SICAL

hipo 18 pretensado de almas (seccion con costilla)
pretensado

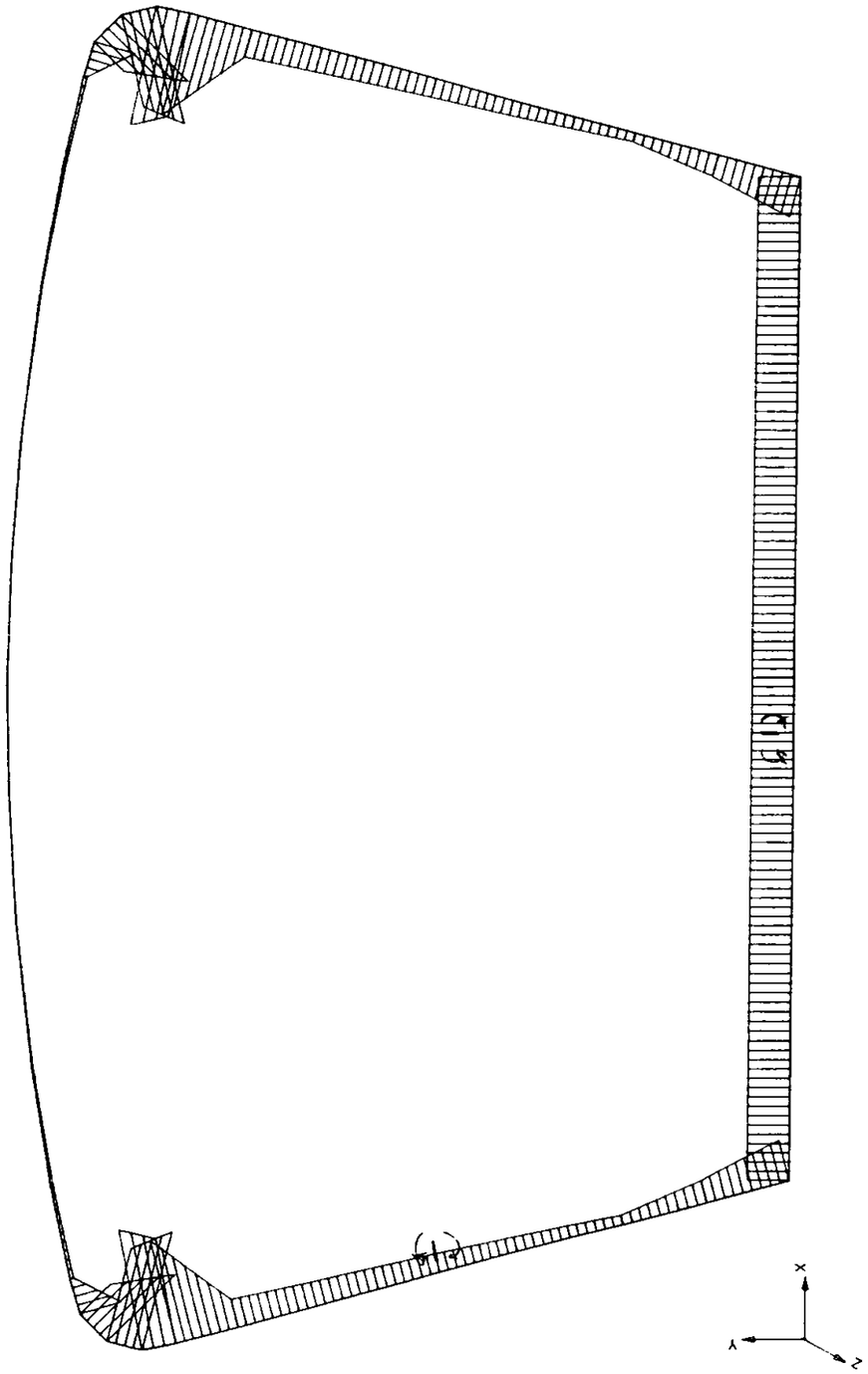
* cable	1 unidades	4					
	23	597.89	581.30	0.098	0.000	0.2348	-0.0710	0.0557
	24	581.30	504.34	0.000	0.000	-0.0710	-0.1430	-0.1527
	25	504.34	484.87	0.000	0.000	-0.1430	-0.1920	-0.1772
	26	484.87	462.04	0.000	0.000	-0.1920	-0.1800	-0.1983
	27	462.04	456.64	0.000	0.000	-0.1800	-0.0300	-0.0996
	28	456.64	421.78	0.000	0.000	-0.0300	0.0450	0.2166
	29	421.78	420.16	0.000	0.000	0.0450	0.0286	0.0353
	30	420.16	418.54	0.000	0.000	0.0286	0.0000	0.0158
* cable	2 unidades	4					
	5	418.54	420.16	0.000	0.000	0.0000	0.0286	0.0158
	6	420.16	421.78	0.000	0.000	0.0286	0.0450	0.0353
	7	421.78	456.64	0.000	0.000	0.0450	-0.0300	0.2165
	8	456.64	462.04	0.000	0.000	-0.0300	-0.1800	-0.0996
	9	462.04	484.87	0.000	0.000	-0.1800	-0.1920	-0.1983
	10	484.87	504.34	0.000	0.000	-0.1920	-0.1430	-0.1772
	11	504.34	581.30	0.000	0.000	-0.1430	-0.0710	-0.1527
	12	581.30	597.89	0.000	0.324	-0.0710	0.2348	0.0557

ESFUERZOS ISOSTATICOS FINALES

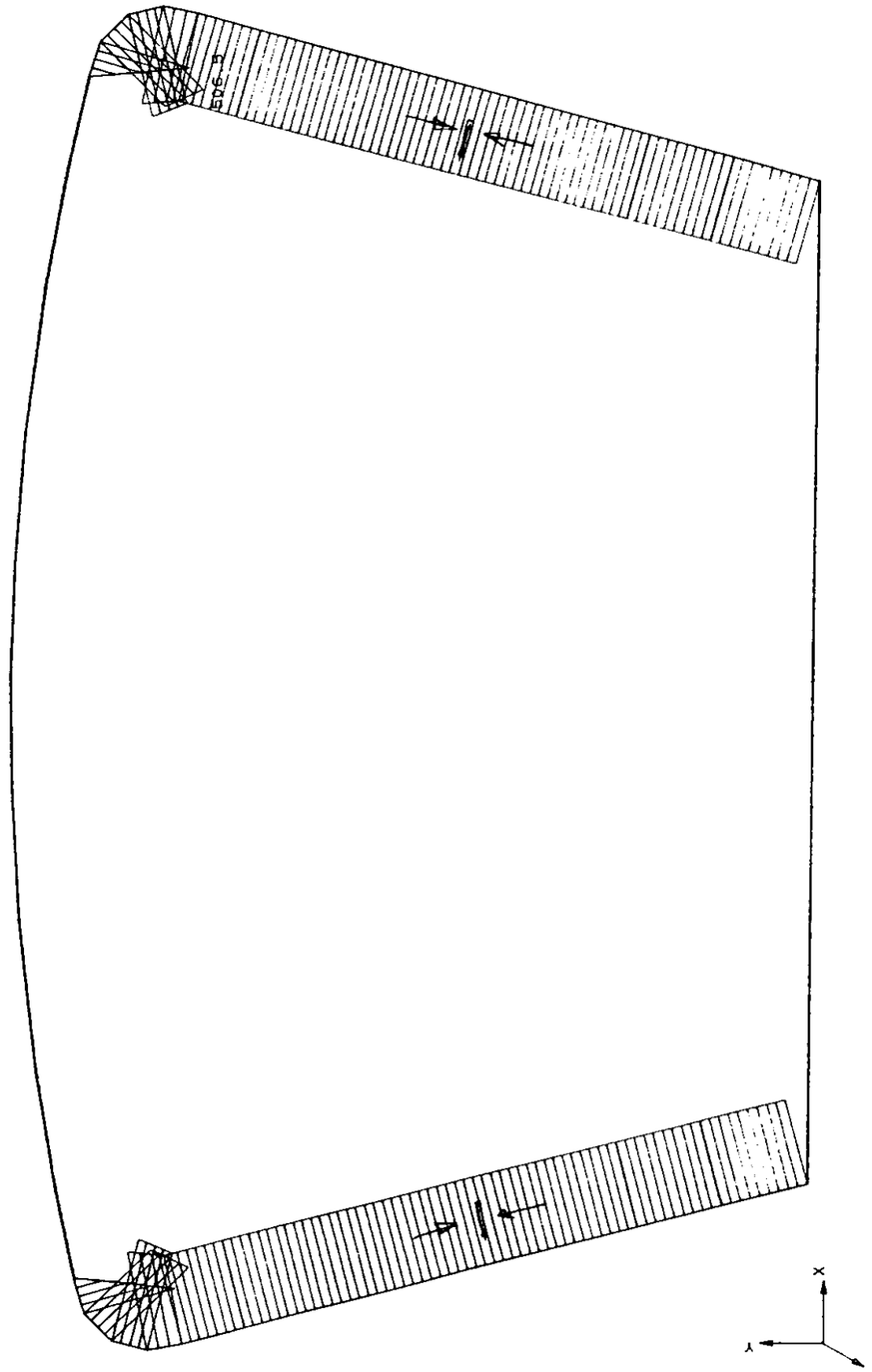
NUDO	AXIL	MOMENTO	E=M/N	ANGULO	CORTANTE
17	0.00	0.00	0.000	0.000	0.00
20	0.00	0.00	0.000	0.000	0.00
22	0.00	0.00	0.000	0.000	0.00
23	0.00	0.00	0.000	0.000	0.00
25	418.54	0.00	0.000	-1.767	12.90
27	420.16	12.02	0.029	-1.061	7.78
28	421.78	18.98	0.045	-1.761	12.96
31	456.64	-13.70	-0.030	18.287	-143.29
33	462.04	-83.17	-0.180	21.213	-167.19
34	484.87	-93.09	-0.192	8.202	-69.17
32	504.34	-72.12	-0.143	-2.396	21.09
30	581.30	-41.27	-0.071	-40.980	381.21
29	0.00	0.00	0.000	0.000	0.00
26	0.00	0.00	0.000	0.000	0.00
24	0.00	0.00	0.000	0.000	0.00
21	0.00	0.00	0.000	0.000	0.00
19	0.00	0.00	0.000	0.000	0.00
18	0.00	0.00	0.000	0.000	0.00
16	0.00	0.00	0.000	0.000	0.00
14	0.00	0.00	0.000	0.000	0.00
11	0.00	0.00	0.000	0.000	0.00
9	0.00	0.00	0.000	0.000	0.00
6	0.00	0.00	0.000	0.000	0.00
5	581.30	-41.27	-0.071	40.980	-381.21
3	504.34	-72.12	-0.143	2.396	-21.09
1	484.87	-93.09	-0.192	-8.202	69.17
2	462.04	-83.17	-0.180	-21.213	167.19
4	456.64	-13.70	-0.030	-18.287	143.29
7	421.78	18.98	0.045	1.761	-12.96
8	420.16	12.02	0.029	1.061	-7.78
10	418.54	0.00	0.000	1.767	-12.90
12	0.00	0.00	0.000	0.000	0.00
13	0.00	0.00	0.000	0.000	0.00
15	0.00	0.00	0.000	0.000	0.00

Leyes de esfuerzos

proc Seccion transversal (con pretensado de almas)
hipo 18 pretensado de almas (seccion con costilla) mz 50.0



proc Seccion transversal (con pretensado de almas)
hipo 18 pretensado de almas (seccion con costilla) fx 3(



97.8

proc Seccion transversal (con pretensado de almas)

numero total de hipotesis previstas: 60

==========

1	hipo 1 Peso Propio
2	hipo 2 Carga muerta
3	hipo 3 S.C. Unif. en paseos
4	hipo 4 S.C. Tren-B (via izquierda)
5	hipo 5 S.C. Tren-B (via derecha)
6	hipo 6 S.C. Tren-B (dos vias)
7	hipo 7 S.C. Tren-A (via izquierda) (mome +)
8	hipo 8 S.C. Tren-A (via derecha) (mome +)
9	hipo 9 S.C. Tren-A (dos vias) (mome +)
10	hipo 10 S.C. Tren-A (via izquierda) (mome -)
11	hipo 11 S.C. Tren-A (via derecha) (mome -)
12	hipo 12 S.C. Tren-A (dos vias) (mome -)
13	hipo 13 viento X+
14	hipo 14 viento X-
15	carga permanente
16	hipo 16 pretensado de nervio inferior (t=0)
17	perdidas pret. losa inferior (t=inf.)
18	hipo 18 pretensado de almas (seccion con costilla)
19	perdidas pret. almas (t=inf.)
21	max fx (G-I) (e.l.s)
22	min fx (G-I) (e.l.s)
23	max fy (G-I) (e.l.s)
24	min fy (G-I) (e.l.s)
25	max mz (G-I) (e.l.s)
26	min mz (G-I) (e.l.s)
27	max fx (G-II) (e.l.s)
28	min fx (G-II) (e.l.s)
29	max fy (G-II) (e.l.s)
30	min fy (G-II) (e.l.s)
31	max mz (G-II) (e.l.s)
32	min mz (G-II) (e.l.s)
33	p.p. + pret (t=0)
34	carga permanente + pret(t=0)
35	max mz + pret(t=0)
36	min mz + pret(t=0)
37	carga permanente + pret(t=inf.)
38	max mz + pret(t=inf.)
39	min mz + pret(t=inf.)
41	max fx (G-I) (e.l.u)
42	min fx (G-I) (e.l.u)
43	max fy (G-I) (e.l.u)
44	min fy (G-I) (e.l.u)
45	max mz (G-I) (e.l.u)
46	min mz (G-I) (e.l.u)
47	max fx (G-II) (e.l.u)
48	min fx (G-II) (e.l.u)
49	max fy (G-II) (e.l.u)
50	min fy (G-II) (e.l.u)
51	max mz (G-II) (e.l.u)
52	min mz (G-II) (e.l.u)

```
impr
hipo 15 carga permanente
fija 1 a 2
suma
hipo 17 perdidas pret. losa inferior (t=inf.)
fija 16 -0.12
suma
hipo 19 perdidas pret. almas (t=inf.)
fija 18 -0.12
suma
hipo 21 max fx (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 12
maxi fuer x
hipo 22 min fx (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 12
mini fuer x
hipo 23 max fy (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 12
maxi fuer y
hipo 24 min fy (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 12
mini fuer y
hipo 25 max mz (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 6 10 a 12
maxi mome z
hipo 26 min mz (G-I) (e.l.s)
fija 15 16 18
comp 3 17 19
inco 4 a 9
mini mome z
hipo 27 max fx (G-II) (e.l.s)
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 12 0.9
maxi fuer x
hipo 28 min fx (G-II) (e.l.s)
```



```
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 12 0.9
mini fuer x
hipo 29 max fy (G-II) (e.l.s)
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 12 0.9
maxi fuer y
hipo 30 min fy (G-II) (e.l.s)
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 12 0.9
mini fuer y
hipo 31 max mz (G-II) (e.l.s)
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 6 0.9 10 a 12 0.9
maxi mome z
hipo 32 min mz (G-II) (e.l.s)
fija 15 0.9 16 18
comp 3 0.9 13 a 14 0.9 17 19
inco 4 a 9 0.9
mini mome z
hipo 33 p.p. + pret (t=0)
fija 1 16 18
suma
hipo 34 carga permanente + pret(t=0)
fija 1 2 16 18
suma
hipo 35 max mz + pret(t=0)
fija 15 16 18
comp 3
inco 4 a 6 10 a 12
maxi mome z
hipo 36 min mz + pret(t=0)
fija 15 16 18
comp 3
inco 4 a 9
mini mome z
hipo 37 carga permanente + pret(t=inf.)
fija 1 2 16 17 19 18
suma
hipo 38 max mz + pret(t=inf.)
fija 15 16 17 19 18
comp 3
```

```
inco 4 a 6 10 a 12
maxi mome z
hipo 39 min mz + pret(t=inf.)
fija 15 16 17 19 18
comp 3
inco 4 a 9
mini mome z
hipo 41 max fx (G-I) (e.l.u)
fija 15 1.5 16 18
comp 3 1.5 17  19
inco 4 a 12 1.5
maxi fuer x
hipo 42 min fx (G-I) (e.l.u)
fija 15 1.5 16  18
comp 3 1.5 17  19
inco 4 a 12 1.5
mini fuer x
hipo 43 max fy (G-I) (e.l.u)
fija 15 1.5 16  18
comp 3 1.5 17  19
inco 4 a 12 1.5
maxi fuer y
hipo 44 min fy (G-I) (e.l.u)
fija 15 1.5 16  18
comp 3 1.5 17  19
inco 4 a 12 1.5
mini fuer y
hipo 45 max mz (G-I) (e.l.u)
fija 15 1.5 16 18
comp 3 1.5 17 19
inco 4 a 6 1.5 10 a 12 1.5
maxi mome z
hipo 46 min mz (G-I) (e.l.u)
fija 15 1.5 16 18
comp 3 1.5 17 19
inco 4 a 9 1.5
mini mome z
hipo 47 max fx (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 12 1.35
maxi fuer x
hipo 48 min fx (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 12 1.35
```



```
mini fuer x
hipo 49 max fy (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 12 1.35
maxi fuer y
hipo 50 min fy (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 12 1.35
mini fuer y
hipo 51 max mz (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 6 1.35 10 a 12 1.35
maxi mome z
hipo 52 min mz (G-II) (e.l.u)
fija 15 1.35 16 18
comp 3 1.35 13 a 14 1.35 17 19
inco 4 a 9 1.35
mini mome z
fin
```

Estudio de las costillas inferiores

Calculo de tensiones
(con pretensado de almas)

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 33

p.p. + pret (t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	369.218	-73.915	-42.092
31	12	-372.368	73.025	-90.604
32	12	372.368	-73.025	90.604
32	13	-371.776	57.486	-150.952
33	13	371.776	-57.486	150.952
33	15	-369.120	32.721	-196.492
34	15	369.120	-32.721	196.492
34	17	-362.443	0.000	-212.312
1	17	362.443	0.000	212.312
1	20	-369.120	-32.721	-196.492
2	20	369.120	32.721	196.492
2	22	-371.776	-57.486	-150.952
3	22	371.776	57.486	150.952
3	23	-372.369	-73.025	-90.604
4	23	372.368	73.025	90.604
4	25	-369.218	-73.915	42.092

TENSIONES

BARRA	NUDO	SIG SUP	SIG INF
31	10	62.41	-9.66
31	12	-39.67	187.88
32	12	-39.67	187.88
32	13	-38.95	182.21
33	13	-38.95	182.21
33	15	-35.68	166.32
34	15	-35.68	166.32
34	17	-34.22	156.24
1	17	-34.22	156.24
1	20	-35.68	166.32
2	20	-35.68	166.32
2	22	-38.95	182.21
3	22	-38.95	182.21
3	23	-39.67	187.88
4	23	-39.67	187.88
4	25	62.41	-9.67

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 34

carga permanente + pret(t=0)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	368.091	-57.921	-31.931
31	12	-371.241	60.373	-76.964
32	12	371.241	-60.373	76.964
32	13	-370.649	48.506	-124.033
33	13	370.649	-48.505	124.033
33	15	-367.993	28.247	-159.433
34	15	367.993	-28.247	159.433
34	17	-361.315	0.000	-171.905
1	17	361.315	0.000	171.905
1	20	-367.993	-28.247	-159.433
2	20	367.993	28.247	159.433
2	22	-370.649	-48.506	-124.032
3	22	370.649	48.506	124.032
3	23	-371.241	-60.373	-76.963
4	23	371.241	60.373	76.963
4	25	-368.091	-57.921	31.932

TENSIONES

BARRA	NUDO	SIG SUP	SIG INF
31	10	53.63	-1.05
31	12	-28.53	164.76
32	12	-28.53	164.76
32	13	-26.74	154.98
33	13	-26.74	154.98
33	15	-24.07	139.83
34	15	-24.07	139.83
34	17	-23.22	131.00
1	17	-23.22	131.00
1	20	-24.07	139.83
2	20	-24.07	139.83
2	22	-26.74	154.98
3	22	-26.74	154.98
3	23	-28.53	164.76
4	23	-28.53	164.76
4	25	53.63	-1.05

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 35

max nz + pret(t=0)

ESFUERZOS EN BARRAS / TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
.	10	361.211	30.321	30.074	0.05	51.55
31	12	-371.241	60.373	-76.964	-28.53	164.76
32	12	371.241	-60.373	76.964	-28.53	164.76
32	13	-370.649	48.506	-124.033	-26.74	154.98
33	13	370.649	-48.505	124.033	-26.74	154.98
33	15	-367.993	28.247	-159.433	-24.07	139.83
34	15	367.993	-28.247	159.433	-24.07	139.83
34	17	-361.315	0.000	-171.905	-23.22	131.00
1	17	361.315	0.000	171.905	-23.22	131.00
)	20	-367.993	-28.247	-159.433	-24.07	139.83
2	20	367.993	28.247	159.433	-24.07	139.83
2	22	-370.649	-48.506	-124.032	-26.74	154.98
3	22	370.649	48.506	124.032	-26.74	154.98
3	23	-371.241	-60.373	-76.963	-28.53	164.76
4	23	371.241	60.373	76.963	-28.53	164.76
4	25	-361.210	30.344	-30.074	0.05	51.55

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 36

min nz + pret(t=0)

ESFUERZOS EN BARRAS / TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	368.091	-57.921	-31.931	53.63	-1.05
31	12	-367.097	8.188	-28.977	10.64	83.42
32	12	367.097	-8.188	28.977	10.64	83.42
32	13	-366.505	10.196	-17.921	21.39	47.65
33	13	366.505	-10.196	17.921	21.39	47.65
33	15	-363.849	14.354	-13.981	21.49	35.86
34	15	363.849	-14.354	13.981	21.49	35.86
34	17	-357.172	0.007	-20.501	18.02	36.41
1	17	357.172	-0.007	20.501	18.02	36.41
1	20	-363.849	-14.365	-13.980	21.49	35.86
2	20	363.849	14.365	13.980	21.49	35.86
2	22	-366.505	-10.207	-17.904	21.40	47.63
3	22	366.505	10.207	17.903	21.40	47.63
3	23	-367.097	-8.175	-28.955	10.66	83.38
4	23	367.097	8.175	28.955	10.66	83.38
4	25	-368.091	-57.921	31.932	53.63	-1.05

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 37

carga permanente + pret(t=inf.)

ESFUERZOS EN BARRAS / TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
	10	323.789	-46.903	-24.038	43.71	2.55
31	12	-326.561	49.928	-65.832	-23.55	141.78
32	12	326.561	-49.928	65.832	-23.55	141.78
32	13	-326.040	40.350	-103.855	-21.13	131.03
33	13	326.040	-40.350	103.855	-21.13	131.03
33	15	-323.703	23.664	-132.349	-18.69	117.37
34	15	323.703	-23.664	132.349	-18.69	117.37
34	17	-317.827	0.000	-142.431	-18.01	109.76
1	17	317.827	0.000	142.431	-18.01	109.76
)	20	-323.703	-23.664	-132.349	-18.69	117.37
2	20	323.703	23.664	132.349	-18.69	117.37
2	22	-326.040	-40.350	-103.855	-21.13	131.03
3	22	326.040	40.350	103.855	-21.13	131.03
3	23	-326.561	-49.928	-65.832	-23.55	141.78
4	23	326.561	49.928	65.832	-23.55	141.78
4	25	-323.789	-46.903	24.039	43.71	2.55

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 38

max mz + pret(t=inf.)

ESFUERZOS EN BARRAS / TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
,1	10	316.909	41.339	37.967	-9.87	55.14
31	12	-326.561	49.928	-65.832	-23.55	141.78
32	12	326.561	-49.928	65.832	-23.55	141.78
32	13	-326.040	40.350	-103.855	-21.13	131.03
33	13	326.040	-40.350	103.855	-21.13	131.03
33	15	-323.703	23.664	-132.349	-18.69	117.37
34	15	323.703	-23.664	132.349	-18.69	117.37
34	17	-317.827	0.000	-142.431	-18.01	109.76
1	17	317.827	0.000	142.431	-18.01	109.76
1	20	-323.703	-23.664	-132.349	-18.69	117.37
2	20	323.703	23.664	132.349	-18.69	117.37
2	22	-326.040	-40.350	-103.855	-21.13	131.03
3	22	326.040	40.350	103.855	-21.13	131.03
3	23	-326.561	-49.928	-65.832	-23.55	141.78
4	23	326.561	49.928	65.832	-23.55	141.78
4	25	-316.909	41.362	-37.967	-9.87	55.14

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 39

min mz + pret(t=inf.)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	SIG SUP	SIG INF
	10	323.789	-46.903	-24.038	43.71	2.55
31	12	-322.417	-2.257	-17.846	15.62	60.44
32	12	322.417	2.257	17.846	15.62	60.44
32	13	-321.896	2.041	2.257	27.01	23.71
33	13	321.896	-2.041	-2.257	27.01	23.70
33	15	-319.559	9.771	13.103	26.88	13.41
34	15	319.559	-9.771	-13.103	26.88	13.41
34	17	-313.683	0.007	8.973	23.22	15.17
1	17	313.683	-0.007	-8.973	23.22	15.17
	20	-319.559	-9.782	13.104	26.88	13.40
2	20	319.559	9.782	-13.104	26.88	13.40
2	22	-321.896	-2.052	2.274	27.02	23.69
3	22	321.896	2.052	-2.274	27.02	23.69
3	23	-322.417	2.270	-17.824	15.64	60.40
4	23	322.417	-2.270	17.824	15.64	60.40
4	25	-323.789	-46.903	24.039	43.71	2.55

TENSIONES

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 18

hipo 18 pretensado de almas (seccion con costilla)

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. V	MOM. Z	SIG SUP	SIG INF
1	10	-3.715	0.000	33.601	-29.03	28.50
31	12	3.715	0.000	-33.601	-28.05	56.34
32	12	-3.715	0.000	33.601	-28.05	56.34
32	13	3.715	0.000	-33.601	-15.65	33.58
33	13	-3.715	0.000	33.601	-15.65	33.58
33	15	3.715	0.000	-33.600	-10.86	23.68
34	15	-3.715	0.000	33.600	-10.86	23.68
34	17	3.715	0.000	-33.600	-9.46	20.69
1	17	-3.715	0.000	33.600	-9.46	20.69
1	20	3.715	0.000	-33.600	-10.86	23.68
2	20	-3.715	0.000	33.600	-10.86	23.68
2	22	3.715	0.000	-33.600	-15.65	33.58
3	22	-3.715	0.000	33.600	-15.65	33.58
3	23	3.715	0.000	-33.600	-28.05	56.33
4	23	-3.715	0.000	33.600	-28.05	56.33
4	25	3.715	0.000	-33.600	-29.03	28.50

TENSIONES

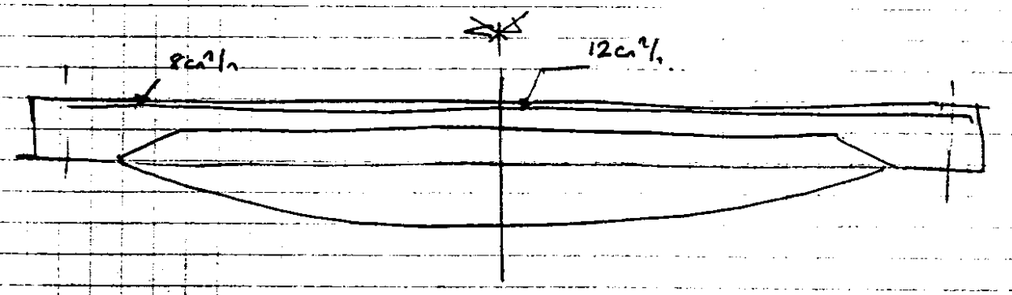
CALCULO DE LA ARMADURA POR VOLUMEN DE TRACCION (INSTRUCCION EHE)

$$h = \frac{\sigma_{inf}}{\sigma_{inf} + \sigma_{sup}} h_T \qquad U_\varphi = \gamma_f \frac{1}{2} \sigma_{inf} b_w \cdot h$$

kp/cm²

Hipótesis	Secc.	σ_{sup}	σ_{inf}	h	h_T	b_w	U_φ (T)
pp+pret (tzo)	n4	-40.	188.	0.113	0.658	2.80	96.60
	n1	-34.	156.	0.204	1.142	2.80	146

$$A_s (cm^2/m) = \frac{146}{5.1} 1.15 \frac{1}{2.80} = 11.76 cm^2/m$$



Calculo de armadura
(con pretensado de almas)

CONCLUSIONES RELATIVAS A LA ADOPCION DE LAS CAPILLAS INVESTIGADAS

La cuadrícula de cobertura en la hipótesis con plenitud de chas coincide con la correspondiente a la hipótesis sin plenitud de chas

proc Seccion transversal (con pretensado de almas)

			ARMADURA									
			CORTANTE		TORSION							
SECC	VOL T	ZONA	TRANS	LONG	TRANS	LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION	TOTAL TRANS
10	0.00	AB	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.28
	0.00	C	42.67	18.73	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	42.67
	0.00	C	42.67	18.73	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	42.67
	0.00	AB	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.28
	0.00	C	42.67	18.73	0.00	0.00	0.00	0.00	0.00	0.00	0.44 0.00	42.67
	0.00	AB	10.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18 0.00	10.28
	0.00	AB	11.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19 0.00	11.43
	0.00	AB	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35 0.00	31.20
	0.00	C	33.21	16.79	0.00	0.00	0.00	0.00	0.00	0.00	0.37 0.00	33.21
	0.00	AB	14.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	14.08
	0.00	C	33.21	16.79	0.00	0.00	0.00	0.00	0.00	0.00	0.37 0.00	33.21
	0.00	AB	14.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	14.08
12	0.00	AB	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.30
	0.00	C	19.31	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.27 0.00	19.31
	0.00	C	19.31	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.27 0.00	19.31
	0.00	AB	5.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.30
	0.00	AB	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.31
	0.00	AB	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12 0.00	3.69
	0.00	AB	5.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.72
	0.00	C	10.80	19.28	0.00	0.00	0.00	0.00	0.00	0.00	0.21 0.00	10.80
	0.00	AB	16.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23 0.00	16.52
	0.00	AB	7.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15 0.00	7.49
	0.00	AB	5.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	5.73
	0.00	AB	10.53C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
13	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	6.50	20.46	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	0.50
	0.00	C	6.50	20.46	0.00	0.00	0.00	0.00	0.00	0.00	0.14 0.00	0.50
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	16.49	0.00	0.00	0.00	0.00	0.00	0.00	0.06 0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	18.72	0.00	0.00	0.00	0.00	0.00	0.00	0.11 0.00	0.00
	0.00	C	10.04C	19.57	0.00	0.00	0.00	0.00	0.00	0.00	0.12 0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09 0.00	0.76
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 0.00	0.00
	0.00	C	10.04C	15.09	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00
15	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	16.30	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	19.15	0.00	0.00	0.00	0.00	0.00	0.00	0.05 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	15.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04 0.00	0.00
	0.00	C	9.66C	15.60	0.00	0.00	0.00	0.00	0.00	0.00	0.01 0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03 0.00	0.00

proc Seccion transversal (con pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRANS
	0.00	C	9.66C	19.59	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.68	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
17	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	C	9.52C	15.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	16.29	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	C	9.66C	19.15	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	C	9.66C	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
	0.00	C	9.66C	15.75	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	0.50	20.45	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.50
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	0.53	20.44	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.53
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	10.04C	16.49	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.76
	0.00	C	10.04C	19.53	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
	0.00	AB	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.76
	0.00	C	10.04C	19.50	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00
	0.00	C	10.04C	15.15	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
23	0.00	AB	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.31
	0.00	C	19.33	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	19.33
	0.00	AB	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.31
	0.00	C	19.46	21.62	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	19.46
	0.00	AB	5.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.31
	0.00	AB	3.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	3.69

proc Seccion transversal (con pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRANS
	0.00	AB	7.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	7.46
	0.00	AB	16.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	16.62
	0.00	AB	7.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	7.46
	0.00	C	13.10	19.94	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	13.10
	0.00	AB	5.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	5.75
	0.00	AB	10.53C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00

Calculo de tensiones
(con pretensado de almas)

CÁLCULO DE TENSIONES EN LAS ALMAS

002110

Con el fin averiguar si la pequeña cuantía de alma no es problemática por el estado tensional de tensiones, se calculan las tensiones en las hipótesis de pretensado.

Con el fin de tener en cuenta la presencia del recubrimiento en la zona de anclaje se suponen las propiedades de esa zona

CONCLUSIONES

- No se observan efectos problemáticos ni en el nivel de compresiones ni de tracciones.

La superposición del estado tensional del peso propio tampoco tiene en cuenta en el cálculo de la cuantía en las hipótesis de (c.f.u)

FICHERO PARA CÁLCULO DE TENSIONES EN LAS ALMAS

- Barra 21 — 27, 28 $b = 3.0$ $h = 0.40$

$A = 1.20\ m^2$ $I = \frac{1}{12} 3.0 \cdot 0.40^3 = 0.016\ m^4$ $V = V' = 0.20$

- Barra 28 $b = 1.10$ $h = 0.40$.

$A = 0.44\ m^2$ $I = \frac{1}{12} 1.10 \cdot 0.40^3 = 0.0058$ $V = V' = 0.20$

- Barra 30 $b = 3.0$. $h_1 = 0.40$ $h_2 = 0.80$

$h_1 = 0.40$ $A = 1.20$ $I = 0.016$ $V = V' = 0.20$

$h_2 = 0.80$ $A = 2.40$. $I = 0.128$ $V = V' = 0.40$.

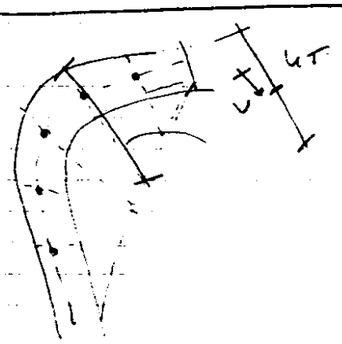
CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____

HOJA _____ DE _____

FECHA _____

CONSIDERACIÓN DEL CANTO DE ANCLAJE



	n1		n2		n1		
Barra	hr	Vr	hr	Vr	A	I_z	V:v1
23	0.80	0.20	1.10	0.31	2.40	0.128	0.40
24	1.10	0.35	1.22	0.41	3.20	0.333	0.57
25	1.22	0.41	1.12	0.36	3.66	0.454	0.61
26	1.12	0.36	0.80	0.24	3.36	0.351	0.56
27	0.80	0.25	0.64	0.12	2.70	0.182	0.45
					1.82	0.0655	0.32

proc Seccion transversal (con pretensado de almas)

HIPOTESIS 18

hipo 18 pretensado de almas (seccion con costilla)

ESFUERZOS EN BARRAS — TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
1	11	3.662	-0.626	0.837	-0.74	1.35
21	9	-3.662	0.626	-1.714	-1.84	2.45
22	9	3.630	-0.790	1.714	-1.84	2.44
22	6	-3.630	0.790	-2.576	-2.92	3.52
23	6	3.562	-1.057	2.576	-0.66	0.95
23	5	-442.409	382.267	-34.180	7.76	19.05
24	5	441.486	-383.826	34.180	7.73	19.02
24	3	-506.541	23.703	-76.236	3.60	24.08
25	3	504.808	-24.691	76.236	3.55	24.04
25	1	-480.815	-65.569	-97.823	-1.30	29.92
26	1	479.166	65.533	97.823	-1.35	29.87
26	2	-429.987	-163.546	-84.679	-5.01	36.86
27	2	429.778	163.594	84.679	-5.02	36.85
27	4	-432.629	-139.695	-22.824	11.38	33.68
28	4	432.629	139.695	22.824	20.95	175.69
28	7	-420.627	16.551	-7.471	70.27	120.92
29	7	420.626	-16.551	7.471	25.71	44.39
29	8	-419.133	11.371	-18.018	12.40	57.45
30	8	419.134	-11.371	18.018	12.40	57.45
0	10	-417.388	16.494	-33.601	6.89	27.89

Calculo de armadura
(con pretensado de almas)

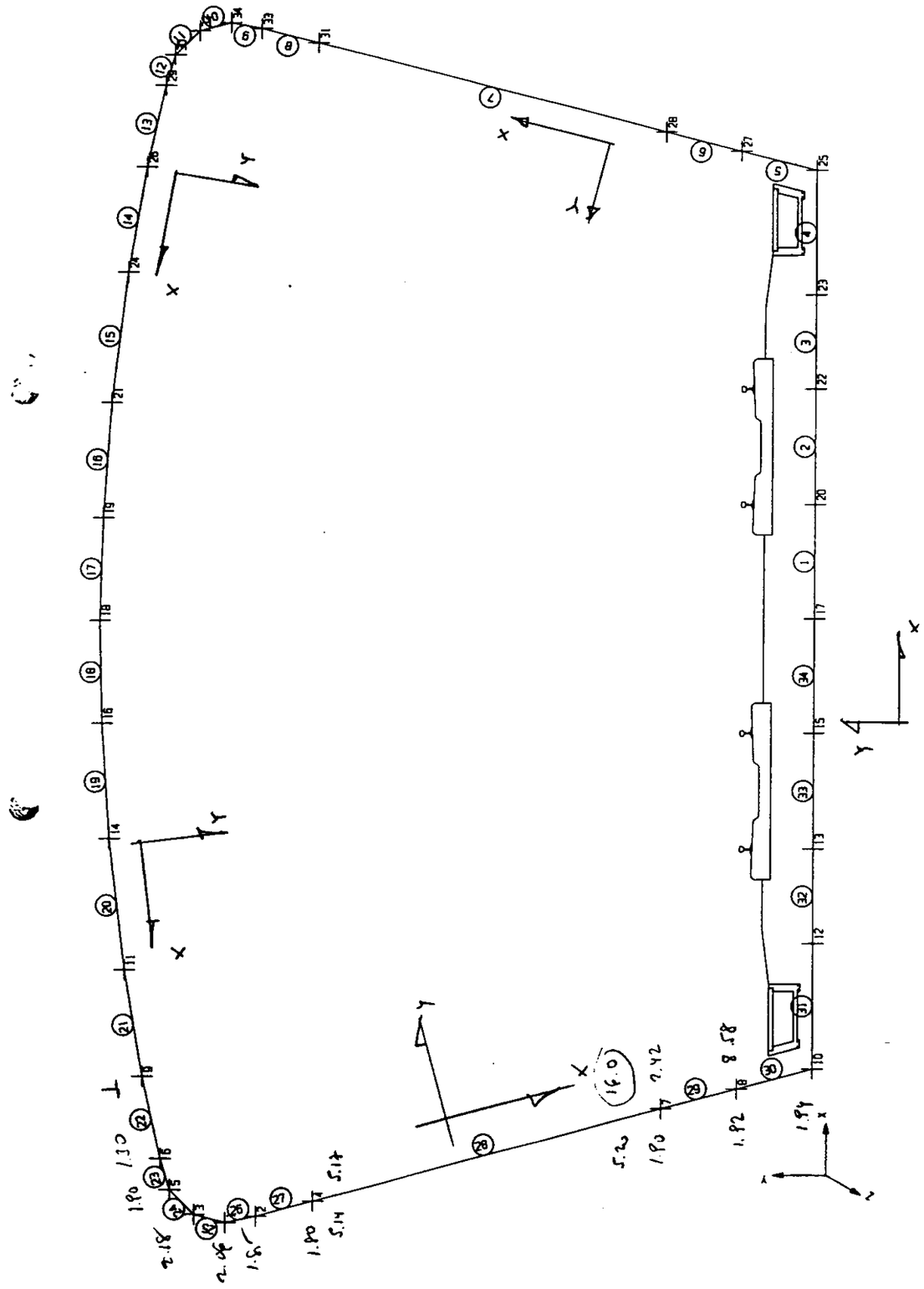
CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO_____

HOJA_____ DE _____
FECHA _____

COLOCACIÓN DE LA ARMADURA DE ALMAS

La separación de la cuadrícula de cercos con las hipótesis de pilastras resulta ser muy inferior a la correspondiente sin pilastras.



proc Seccion transversal (con pretensado de almas)

BARRA 30 NUDO 8

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	460.76	-28.06	-12.29	1.92	13.35
42	3.00	0.40	0.03	0.00	0.00	407.71	-112.28	8.49	1.70	13.35
43	3.00	0.40	0.03	0.00	0.00	410.47	-25.89	-10.78	1.71	13.35
44	3.00	0.40	0.03	0.00	0.00	458.01	-114.44	7.16	1.91	13.35
45	3.00	0.40	0.03	0.00	0.00	458.01	-114.44	7.16	1.91	13.35
46	3.00	0.40	0.03	0.00	0.00	410.47	-25.89	-10.78	1.71	13.35
47	3.00	0.40	0.03	0.00	0.00	459.05	-11.31	-15.78	1.91	13.35
48	3.00	0.40	0.03	0.00	0.00	403.60	-112.01	8.58	1.68	13.35
49	3.00	0.40	0.03	0.00	0.00	408.75	-9.14	-14.29	1.70	13.35
50	3.00	0.40	0.03	0.00	0.00	453.90	-114.18	7.25	1.89	13.35
51	3.00	0.40	0.03	0.00	0.00	453.90	-114.18	7.25	1.89	13.35
52	3.00	0.40	0.03	0.00	0.00	408.75	-9.14	-14.29	1.70	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 30 NUDO 10

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.80	0.03	0.00	0.00	465.93	-53.72	-12.57	1.94	27.78
42	3.00	0.80	0.03	0.00	0.00	413.09	-146.37	-1.20	1.72	27.78
43	3.00	0.80	0.03	0.00	0.00	415.84	-49.68	-11.08	1.73	27.78
44	3.00	0.80	0.03	0.00	0.00	463.18	-150.40	-2.67	1.93	27.78
45	3.00	0.80	0.03	0.00	0.00	463.18	-150.40	-2.67	1.93	27.78
46	3.00	0.80	0.03	0.00	0.00	415.84	-49.68	-11.08	1.73	27.78
47	3.00	0.80	0.03	0.00	0.00	463.52	-30.89	-14.77	1.93	27.78
48	3.00	0.80	0.03	0.00	0.00	408.29	-145.28	-1.14	1.70	27.78
49	3.00	0.80	0.03	0.00	0.00	413.44	-26.86	-13.27	1.72	27.78
50	3.00	0.80	0.03	0.00	0.00	458.38	-149.31	-2.60	1.91	27.78
51	3.00	0.80	0.03	0.00	0.00	458.38	-149.31	-2.60	1.91	27.78
52	3.00	0.80	0.03	0.00	0.00	413.44	-26.86	-13.27	1.72	27.78

proc Seccion transversal (con pretensado de almas)

BARRA 29 NUDO 7

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	457.90	-8.86	-16.26	1.91	13.35
42	3.00	0.40	0.03	0.00	0.00	404.68	-83.97	2.19	1.69	13.35
43	3.00	0.40	0.03	0.00	0.00	407.43	-7.96	-14.49	1.70	13.35
44	3.00	0.40	0.03	0.00	0.00	455.15	-84.87	0.52	1.90	13.35
45	3.00	0.40	0.03	0.00	0.00	455.15	-84.87	0.52	1.90	13.35
46	3.00	0.40	0.03	0.00	0.00	407.43	-7.96	-14.49	1.70	13.35
47	3.00	0.40	0.03	0.00	0.00	456.62	2.73	1.90	-17.52	13.35
48	3.00	0.40	0.03	0.00	0.00	401.00	-84.39	2.42	1.67	13.35
49	3.00	0.40	0.03	0.00	0.00	406.15	3.63	1.69	-15.36	13.35
50	3.00	0.40	0.03	0.00	0.00	451.48	-85.29	0.75	1.88	13.35
51	3.00	0.40	0.03	0.00	0.00	451.48	-85.29	0.75	1.88	13.35
52	3.00	0.40	0.03	0.00	0.00	406.15	3.63	1.69	-15.36	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 29 NUDO 8

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	460.76	-28.06	-12.24	1.92	13.35
42	3.00	0.40	0.03	0.00	0.00	407.71	-112.28	8.49	1.70	13.35
43	3.00	0.40	0.03	0.00	0.00	410.46	-25.89	-10.78	1.71	13.35
44	3.00	0.40	0.03	0.00	0.00	458.01	-114.44	7.16	1.91	13.35
45	3.00	0.40	0.03	0.00	0.00	458.01	-114.44	7.16	1.91	13.35
46	3.00	0.40	0.03	0.00	0.00	410.46	-25.89	-10.78	1.71	13.35
47	3.00	0.40	0.03	0.00	0.00	459.04	-11.31	-15.78	1.91	13.35
48	3.00	0.40	0.03	0.00	0.00	403.60	-112.01	8.58	1.68	13.35
49	3.00	0.40	0.03	0.00	0.00	408.75	-9.14	-14.29	1.70	13.35
50	3.00	0.40	0.03	0.00	0.00	453.90	-114.18	7.25	1.89	13.35
51	3.00	0.40	0.03	0.00	0.00	453.90	-114.18	7.25	1.89	13.35
52	3.00	0.40	0.03	0.00	0.00	408.75	-9.14	-14.29	1.70	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 28 NUDO 4

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	1.10	0.40	0.03	0.00	0.00	455.14	4.08	5.17	-44.93	13.35
42	1.10	0.40	0.03	0.00	0.00	400.47	-21.18	-28.66	4.55	13.35
43	1.10	0.40	0.03	0.00	0.00	455.14	4.08	5.17	-44.93	13.35
44	1.10	0.40	0.03	0.00	0.00	400.47	-21.18	-28.66	4.55	13.35
45	1.10	0.40	0.03	0.00	0.00	452.39	-23.92	-31.74	5.14	13.35
46	1.10	0.40	0.03	0.00	0.00	403.22	6.82	4.58	-38.12	13.35
47	1.10	0.40	0.03	0.00	0.00	455.33	3.50	5.17	-45.32	13.35
48	1.10	0.40	0.03	0.00	0.00	398.27	-23.59	-26.89	4.53	13.35
49	1.10	0.40	0.03	0.00	0.00	452.98	2.28	5.15	-45.87	13.35
50	1.10	0.40	0.03	0.00	0.00	400.63	-22.36	-27.91	4.55	13.35
51	1.10	0.40	0.03	0.00	0.00	450.19	-26.32	-29.93	5.12	13.35
52	1.10	0.40	0.03	0.00	0.00	403.42	6.24	4.58	-38.50	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 28 NUDO 7

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	1.10	0.40	0.03	0.00	0.00	457.90	-8.86	-42.14	5.20	13.35
42	1.10	0.40	0.03	0.00	0.00	404.68	-83.97	15.28	4.60	13.35
43	1.10	0.40	0.03	0.00	0.00	407.43	-7.96	-37.81	4.63	13.35
44	1.10	0.40	0.03	0.00	0.00	455.15	-84.87	12.20	5.17	13.35
45	1.10	0.40	0.03	0.00	0.00	455.15	-84.87	12.20	5.17	13.35
46	1.10	0.40	0.03	0.00	0.00	407.43	-7.96	-37.81	4.63	13.35
47	1.10	0.40	0.03	0.00	0.00	456.62	2.73	5.19	-45.94	13.35
48	1.10	0.40	0.03	0.00	0.00	401.00	-84.39	15.89	4.56	13.35
49	1.10	0.40	0.03	0.00	0.00	406.15	3.63	4.62	-40.42	13.35
50	1.10	0.40	0.03	0.00	0.00	451.48	-85.29	12.80	5.13	13.35
51	1.10	0.40	0.03	0.00	0.00	451.48	-85.29	12.80	5.13	13.35
52	1.10	0.40	0.03	0.00	0.00	406.15	3.63	4.62	-40.42	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 27 NUDO 2

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.90	0.03	0.00	0.00	449.06	-55.01	-12.40	1.87	31.39
42	3.00	0.90	0.03	0.00	0.00	394.73	-65.14	-9.44	1.64	31.39
43	3.00	0.90	0.03	0.00	0.00	449.06	-55.01	-12.40	1.87	31.39
44	3.00	0.90	0.03	0.00	0.00	394.73	-65.14	-9.44	1.64	31.39
45	3.00	0.90	0.03	0.00	0.00	446.30	-75.30	-10.50	1.86	31.39
46	3.00	0.90	0.03	0.00	0.00	397.48	-44.84	-11.34	1.66	31.39
47	3.00	0.90	0.03	0.00	0.00	449.57	-55.79	-12.36	1.87	31.39
48	3.00	0.90	0.03	0.00	0.00	392.86	-67.68	-9.15	1.64	31.39
49	3.00	0.90	0.03	0.00	0.00	447.21	-57.33	-12.13	1.86	31.39
50	3.00	0.90	0.03	0.00	0.00	395.21	-66.10	-9.38	1.65	31.39
51	3.00	0.90	0.03	0.00	0.00	444.43	-77.85	-10.20	1.85	31.39
52	3.00	0.90	0.03	0.00	0.00	398.00	-45.58	-11.30	1.66	31.39

proc Seccion transversal (con pretensado de almas)

BARRA 27 NUDO 4

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.64	0.03	0.00	0.00	455.14	4.08	1.90	-17.14	22.01
42	3.00	0.64	0.03	0.00	0.00	400.47	-21.18	-12.88	1.67	22.01
43	3.00	0.64	0.03	0.00	0.00	455.14	4.08	1.90	-17.14	22.01
44	3.00	0.64	0.03	0.00	0.00	400.47	-21.18	-12.88	1.67	22.01
45	3.00	0.64	0.03	0.00	0.00	452.39	-23.92	-14.52	1.88	22.01
46	3.00	0.64	0.03	0.00	0.00	403.22	6.82	1.68	-14.81	22.01
47	3.00	0.64	0.03	0.00	0.00	455.33	3.50	1.90	-17.23	22.01
48	3.00	0.64	0.03	0.00	0.00	398.27	-23.59	-12.49	1.66	22.01
49	3.00	0.64	0.03	0.00	0.00	452.98	2.28	1.89	-17.29	22.01
50	3.00	0.64	0.03	0.00	0.00	400.63	-22.36	-12.74	1.67	22.01
51	3.00	0.64	0.03	0.00	0.00	450.19	-26.32	-14.13	1.88	22.01
52	3.00	0.64	0.03	0.00	0.00	403.42	6.24	1.68	-14.89	22.01

proc Seccion transversal (con pretensado de almas)

BARRA 26 NUDO 1

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	1.12	0.03	0.00	0.00	496.82	-67.35	-14.26	2.07	39.33
42	3.00	1.12	0.03	0.00	0.00	437.18	-71.66	-11.70	1.82	39.33
43	3.00	1.12	0.03	0.00	0.00	496.82	-67.35	-14.26	2.07	39.33
44	3.00	1.12	0.03	0.00	0.00	437.18	-71.66	-11.70	1.82	39.33
45	3.00	1.12	0.03	0.00	0.00	494.68	-83.40	-13.05	2.06	39.33
46	3.00	1.12	0.03	0.00	0.00	439.32	-55.61	-12.91	1.83	39.33
47	3.00	1.12	0.03	0.00	0.00	497.53	-67.97	-14.24	2.07	39.33
48	3.00	1.12	0.03	0.00	0.00	435.48	-74.22	-11.46	1.81	39.33
49	3.00	1.12	0.03	0.00	0.00	495.13	-69.89	-14.02	2.06	39.33
50	3.00	1.12	0.03	0.00	0.00	437.88	-72.30	-11.68	1.82	39.33
51	3.00	1.12	0.03	0.00	0.00	492.98	-85.96	-12.80	2.05	39.33
52	3.00	1.12	0.03	0.00	0.00	440.03	-56.23	-12.89	1.83	39.33

proc Seccion transversal (con pretensado de almas)

BARRA 26 NUDO 2

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.90	0.03	0.00	0.00	449.42	-55.01	-12.42	1.87	31.39
42	3.00	0.90	0.03	0.00	0.00	395.68	-65.14	-9.48	1.65	31.39
43	3.00	0.90	0.03	0.00	0.00	449.42	-55.01	-12.42	1.87	31.39
44	3.00	0.90	0.03	0.00	0.00	395.68	-65.14	-9.48	1.65	31.39
45	3.00	0.90	0.03	0.00	0.00	447.28	-75.30	-10.53	1.86	31.39
46	3.00	0.90	0.03	0.00	0.00	397.82	-44.84	-11.36	1.66	31.39
47	3.00	0.90	0.03	0.00	0.00	449.95	-55.74	-12.37	1.87	31.39
48	3.00	0.90	0.03	0.00	0.00	393.80	-67.68	-9.18	1.64	31.39
49	3.00	0.90	0.03	0.00	0.00	447.55	-57.33	-12.14	1.86	31.39
50	3.00	0.90	0.03	0.00	0.00	396.20	-66.10	-9.41	1.65	31.39
51	3.00	0.90	0.03	0.00	0.00	445.40	-77.85	-10.24	1.86	31.39
52	3.00	0.90	0.03	0.00	0.00	398.35	-45.58	-11.31	1.66	31.39

proc Seccion transversal (con pretensado de almas)

BARRA 25 NUDO 3

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	1.22	0.03	0.00	0.00	522.30	-59.89	-16.08	2.18	42.93
42	3.00	1.22	0.03	0.00	0.00	459.11	-39.02	-15.03	1.91	42.93
43	3.00	1.22	0.03	0.00	0.00	459.11	-39.02	-15.03	1.91	42.93
44	3.00	1.22	0.03	0.00	0.00	522.30	-59.89	-16.08	2.18	42.93
45	3.00	1.22	0.03	0.00	0.00	522.30	-59.89	-16.08	2.18	42.93
46	3.00	1.22	0.03	0.00	0.00	459.11	-39.02	-15.03	1.91	42.93
47	3.00	1.22	0.03	0.00	0.00	523.54	-60.23	-16.11	2.18	42.93
48	3.00	1.22	0.03	0.00	0.00	457.54	-41.46	-14.82	1.91	42.93
49	3.00	1.22	0.03	0.00	0.00	457.54	-41.46	-14.82	1.91	42.93
50	3.00	1.22	0.03	0.00	0.00	523.54	-60.23	-16.11	2.18	42.93
51	3.00	1.22	0.03	0.00	0.00	520.95	-62.15	-15.89	2.17	42.93
52	3.00	1.22	0.03	0.00	0.00	460.13	-39.54	-15.04	1.92	42.93

proc Seccion transversal (con pretensado de almas)

BARRA 25 NUDO 1

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	1.12	0.03	0.00	0.00	500.13	-83.40	-13.25	2.08	39.33
42	3.00	1.12	0.03	0.00	0.00	439.82	-55.61	-12.93	1.83	39.33
43	3.00	1.12	0.03	0.00	0.00	497.52	-67.35	-14.29	2.07	39.33
44	3.00	1.12	0.03	0.00	0.00	442.43	-71.67	-11.90	1.84	39.33
45	3.00	1.12	0.03	0.00	0.00	500.13	-83.40	-13.25	2.08	39.33
46	3.00	1.12	0.03	0.00	0.00	439.82	-55.61	-12.93	1.83	39.33
47	3.00	1.12	0.03	0.00	0.00	501.18	-84.04	-13.25	2.09	39.33
48	3.00	1.12	0.03	0.00	0.00	438.06	-58.15	-12.69	1.83	39.33
49	3.00	1.12	0.03	0.00	0.00	498.35	-67.97	-14.27	2.08	39.33
50	3.00	1.12	0.03	0.00	0.00	440.90	-74.22	-11.66	1.84	39.33
51	3.00	1.12	0.03	0.00	0.00	498.60	-85.96	-13.02	2.08	39.33
52	3.00	1.12	0.03	0.00	0.00	440.65	-56.23	-12.92	1.84	39.33

proc Seccion transversal (con pretensado de almas)

BARRA 24 NUDO 5

HIPO	B	H	R	BW	HF	AXIL	MOME	M S/M	M I/M	M M/M
41	3.00	1.10	0.03	0.00	0.00	457.57	-19.69	-16.10	1.91	38.60
42	3.00	1.10	0.03	0.00	0.00	396.97	-7.21	-14.69	1.65	38.60
43	3.00	1.10	0.03	0.00	0.00	396.97	-7.21	-14.69	1.65	38.60
44	3.00	1.10	0.03	0.00	0.00	457.57	-19.69	-16.10	1.91	38.60
45	3.00	1.10	0.03	0.00	0.00	457.57	-19.69	-16.10	1.91	38.60
46	3.00	1.10	0.03	0.00	0.00	396.97	-7.21	-14.69	1.65	38.60
47	3.00	1.10	0.03	0.00	0.00	459.22	-19.93	-16.15	1.91	38.60
48	3.00	1.10	0.03	0.00	0.00	395.88	-9.23	-14.51	1.65	38.60
49	3.00	1.10	0.03	0.00	0.00	398.19	-7.75	-14.70	1.66	38.60
50	3.00	1.10	0.03	0.00	0.00	456.91	-21.41	-15.96	1.90	38.60
51	3.00	1.10	0.03	0.00	0.00	456.91	-21.41	-15.96	1.90	38.60
52	3.00	1.10	0.03	0.00	0.00	398.19	-7.75	-14.70	1.66	38.60

proc Seccion transversal (con pretensado de almas)

BARRA 24 NUDO 3

HIPO	B	H	R	BW	HF	AXIL	MOME	M S/M	M I/M	M M/M
41	3.00	1.22	0.03	0.00	0.00	524.02	-59.89	-16.15	2.18	42.93
42	3.00	1.22	0.03	0.00	0.00	455.62	-39.02	-14.90	1.90	42.93
43	3.00	1.22	0.03	0.00	0.00	455.62	-39.02	-14.90	1.90	42.93
44	3.00	1.22	0.03	0.00	0.00	524.02	-59.89	-16.15	2.18	42.93
45	3.00	1.22	0.03	0.00	0.00	524.02	-59.89	-16.15	2.18	42.93
46	3.00	1.22	0.03	0.00	0.00	455.62	-39.02	-14.90	1.90	42.93
47	3.00	1.22	0.03	0.00	0.00	525.53	-60.23	-16.18	2.19	42.93
48	3.00	1.22	0.03	0.00	0.00	454.39	-41.46	-14.70	1.89	42.93
49	3.00	1.22	0.03	0.00	0.00	456.70	-39.54	-14.91	1.90	42.93
50	3.00	1.22	0.03	0.00	0.00	523.22	-62.15	-15.97	2.18	42.93
51	3.00	1.22	0.03	0.00	0.00	523.22	-62.15	-15.97	2.18	42.93
52	3.00	1.22	0.03	0.00	0.00	456.70	-39.54	-14.91	1.90	42.93

proc Seccion transversal (con pretensado de almas)

BARRA 23 NUDO 6

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.80	0.03	0.00	0.00	15.54	7.79	0.06	0.16	27.78
42	3.00	0.80	0.03	0.00	0.00	4.83	15.20	0.02	1.30	27.78
43	3.00	0.80	0.03	0.00	0.00	4.83	15.20	0.02	1.30	27.78
44	3.00	0.80	0.03	0.00	0.00	15.54	7.79	0.06	0.16	27.78
45	3.00	0.80	0.03	0.00	0.00	15.54	7.79	0.06	0.16	27.78
46	3.00	0.80	0.03	0.00	0.00	4.83	15.20	0.02	1.30	27.78
47	3.00	0.80	0.03	0.00	0.00	17.21	7.38	0.07	0.05	27.78
48	3.00	0.80	0.03	0.00	0.00	4.33	13.68	0.02	1.17	27.78
49	3.00	0.80	0.03	0.00	0.00	5.98	14.46	0.02	1.18	27.78
50	3.00	0.80	0.03	0.00	0.00	15.56	6.60	0.06	0.04	27.78
51	3.00	0.80	0.03	0.00	0.00	15.56	6.60	0.06	0.04	27.78
52	3.00	0.80	0.03	0.00	0.00	5.98	14.46	0.02	1.18	27.78

proc Seccion transversal (con pretensado de almas)

BARRA 23 NUDO 5

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	1.10	0.03	0.00	0.00	454.93	-19.69	-16.00	1.90	38.60
42	3.00	1.10	0.03	0.00	0.00	391.55	-7.21	-14.49	1.63	38.60
43	3.00	1.10	0.03	0.00	0.00	391.55	-7.21	-14.49	1.63	38.60
44	3.00	1.10	0.03	0.00	0.00	454.93	-19.69	-16.00	1.90	38.60
45	3.00	1.10	0.03	0.00	0.00	454.93	-19.69	-16.00	1.90	38.60
46	3.00	1.10	0.03	0.00	0.00	391.55	-7.21	-14.49	1.63	38.60
47	3.00	1.10	0.03	0.00	0.00	456.54	-19.93	-16.05	1.90	38.60
48	3.00	1.10	0.03	0.00	0.00	391.01	-9.23	-14.32	1.63	38.60
49	3.00	1.10	0.03	0.00	0.00	392.65	-7.75	-14.49	1.64	38.60
50	3.00	1.10	0.03	0.00	0.00	454.89	-21.41	-15.88	1.90	38.60
51	3.00	1.10	0.03	0.00	0.00	454.89	-21.41	-15.88	1.90	38.60
52	3.00	1.10	0.03	0.00	0.00	392.65	-7.75	-14.49	1.64	38.60

proc Seccion transversal (con pretensado de almas)

BARRA 22 NUDO 9

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	13.88	0.66	0.06	-0.42	13.35
42	3.00	0.40	0.03	0.00	0.00	2.96	5.47	0.01	0.99	13.35
43	3.00	0.40	0.03	0.00	0.00	2.96	5.47	0.01	0.99	13.35
44	3.00	0.40	0.03	0.00	0.00	13.88	0.66	0.06	-0.42	13.35
45	3.00	0.40	0.03	0.00	0.00	13.88	0.66	0.06	-0.42	13.35
46	3.00	0.40	0.03	0.00	0.00	2.96	5.47	0.01	0.99	13.35
47	3.00	0.40	0.03	0.00	0.00	15.61	-0.03	-0.62	0.07	13.35
48	3.00	0.40	0.03	0.00	0.00	2.65	4.92	0.01	0.89	13.35
49	3.00	0.40	0.03	0.00	0.00	4.18	4.44	0.02	0.74	13.35
50	3.00	0.40	0.03	0.00	0.00	14.08	0.45	0.06	-0.48	13.35
51	3.00	0.40	0.03	0.00	0.00	15.61	-0.03	-0.62	0.07	13.35
52	3.00	0.40	0.03	0.00	0.00	2.65	4.92	0.01	0.89	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 22 NUDO 6

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	14.92	7.79	0.06	0.99	13.35
42	3.00	0.40	0.03	0.00	0.00	4.00	15.20	0.02	2.94	13.35
43	3.00	0.40	0.03	0.00	0.00	4.00	15.20	0.02	2.94	13.35
44	3.00	0.40	0.03	0.00	0.00	14.92	7.79	0.06	0.99	13.35
45	3.00	0.40	0.03	0.00	0.00	14.92	7.79	0.06	0.99	13.35
46	3.00	0.40	0.03	0.00	0.00	4.00	15.20	0.02	2.94	13.35
47	3.00	0.40	0.03	0.00	0.00	16.55	7.38	0.07	0.84	13.35
48	3.00	0.40	0.03	0.00	0.00	3.59	13.68	0.01	2.65	13.35
49	3.00	0.40	0.03	0.00	0.00	5.12	14.46	0.02	2.74	13.35
50	3.00	0.40	0.03	0.00	0.00	15.02	6.60	0.06	0.74	13.35
51	3.00	0.40	0.03	0.00	0.00	15.02	6.60	0.06	0.74	13.35
52	3.00	0.40	0.03	0.00	0.00	5.12	14.46	0.02	2.74	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 21 NUDO 11

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	12.61	-1.64	-0.18	0.05	13.35
42	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
43	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
44	3.00	0.40	0.03	0.00	0.00	12.61	-1.64	-0.18	0.05	13.35
45	3.00	0.40	0.03	0.00	0.00	12.61	-1.64	-0.18	0.05	13.35
46	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
47	3.00	0.40	0.03	0.00	0.00	14.45	-2.15	-0.14	0.06	13.35
48	3.00	0.40	0.03	0.00	0.00	1.43	0.47	0.01	0.04	13.35
49	3.00	0.40	0.03	0.00	0.00	1.43	0.47	0.01	0.04	13.35
50	3.00	0.40	0.03	0.00	0.00	14.45	-2.15	-0.14	0.06	13.35
51	3.00	0.40	0.03	0.00	0.00	12.92	-2.27	-0.06	0.05	13.35
52	3.00	0.40	0.03	0.00	0.00	2.96	0.59	0.01	0.00	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 21 NUDO 9

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
42	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
43	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
44	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
45	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
46	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
47	3.00	0.40	0.03	0.00	0.00	15.41	-0.03	-0.61	0.06	13.35
48	3.00	0.40	0.03	0.00	0.00	2.38	4.92	0.01	0.91	13.35
49	3.00	0.40	0.03	0.00	0.00	3.88	4.44	0.02	0.75	13.35
50	3.00	0.40	0.03	0.00	0.00	13.91	0.45	0.06	-0.47	13.35
51	3.00	0.40	0.03	0.00	0.00	15.41	-0.03	-0.61	0.06	13.35
52	3.00	0.40	0.03	0.00	0.00	2.38	4.92	0.01	0.91	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 20 NUDO 14

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.64	-0.01	-7.57	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.55	-0.11	-0.60	0.10	13.35
43	0.20	0.40	0.03	0.00	0.00	1.55	-0.11	-0.60	0.10	13.35
44	0.20	0.40	0.03	0.00	0.00	12.64	-0.01	-7.57	0.79	13.35
45	0.20	0.40	0.03	0.00	0.00	7.08	-0.23	-3.56	0.44	13.35
46	0.20	0.40	0.03	0.00	0.00	5.07	0.02	0.32	-2.98	13.35
47	0.20	0.40	0.03	0.00	0.00	14.50	-0.05	-8.55	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.38	-0.11	-0.50	0.09	13.35
49	0.20	0.40	0.03	0.00	0.00	1.38	-0.11	-0.50	0.09	13.35
50	0.20	0.40	0.03	0.00	0.00	14.50	-0.05	-8.55	0.91	13.35
51	0.20	0.40	0.03	0.00	0.00	7.91	-0.51	-3.18	0.49	13.35
52	0.20	0.40	0.03	0.00	0.00	6.13	0.28	0.38	-2.84	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 20 NUDO 11

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
43	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
44	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
45	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
46	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
47	0.20	0.40	0.03	0.00	0.00	14.52	-2.15	-1.95	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.41	0.47	0.09	0.59	13.35
49	0.20	0.40	0.03	0.00	0.00	1.41	0.47	0.09	0.59	13.35
50	0.20	0.40	0.03	0.00	0.00	14.52	-2.15	-1.95	0.91	13.35
51	0.20	0.40	0.03	0.00	0.00	12.99	-2.27	-0.66	0.81	13.35
52	0.20	0.40	0.03	0.00	0.00	2.94	0.59	0.18	0.04	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 19 NUDO 16

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.67	0.79	0.79	-5.15	13.35
42	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
44	0.20	0.40	0.03	0.00	0.00	12.67	0.79	0.79	-5.15	13.35
45	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.57	0.34	0.54	-4.12	13.35
47	0.20	0.40	0.03	0.00	0.00	14.53	0.98	0.91	-5.64	13.35
48	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
50	0.20	0.40	0.03	0.00	0.00	14.53	0.98	0.91	-5.64	13.35
51	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.85	0.58	0.68	-4.73	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 19 NUDO 14

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	-0.01	-7.59	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.53	-0.11	-0.59	0.10	13.35
43	0.20	0.40	0.03	0.00	0.00	1.53	-0.11	-0.59	0.10	13.35
44	0.20	0.40	0.03	0.00	0.00	12.68	-0.01	-7.59	0.79	13.35
45	0.20	0.40	0.03	0.00	0.00	7.09	-0.23	-3.57	0.44	13.35
46	0.20	0.40	0.03	0.00	0.00	5.07	0.02	0.32	-2.98	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	-0.05	-8.58	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.37	-0.11	-0.50	0.09	13.35
49	0.20	0.40	0.03	0.00	0.00	1.37	-0.11	-0.50	0.09	13.35
50	0.20	0.40	0.03	0.00	0.00	14.55	-0.05	-8.58	0.91	13.35
51	0.20	0.40	0.03	0.00	0.00	7.94	-0.51	-3.20	0.50	13.35
52	0.20	0.40	0.03	0.00	0.00	6.13	0.28	0.38	-2.94	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 18 NUDO 18

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	1.09	0.79	-4.22	13.35
42	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
44	0.20	0.40	0.03	0.00	0.00	12.68	1.09	0.79	-4.22	13.35
45	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.57	0.49	0.54	-3.64	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	1.36	0.91	-4.47	13.35
48	0.20	0.40	0.03	0.00	0.00	1.34	-0.48	0.65	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	2.88	-0.28	-0.87	0.18	13.35
50	0.20	0.40	0.03	0.00	0.00	13.01	1.17	0.81	-4.16	13.35
51	0.20	0.40	0.03	0.00	0.00	1.34	-0.48	0.65	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.86	0.83	0.68	-3.96	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 18 NUDO 16

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	0.79	0.79	-5.16	13.35
42	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
44	0.20	0.40	0.03	0.00	0.00	12.68	0.79	0.79	-5.16	13.35
45	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.58	0.34	0.54	-4.13	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	0.98	0.91	-5.65	13.35
48	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	2.88	-0.13	-1.35	0.18	13.35
50	0.20	0.40	0.03	0.00	0.00	13.02	0.71	0.81	-5.59	13.35
51	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.86	0.58	0.68	-4.74	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 17 NUDO 19

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	0.79	0.79	-5.16	13.35
42	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	12.68	0.79	0.79	-5.16	13.35
44	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
45	0.20	0.40	0.03	0.00	0.00	1.51	-0.43	0.41	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.58	0.34	0.54	-4.13	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	0.98	0.91	-5.65	13.35
48	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	13.02	0.71	0.81	-5.59	13.35
50	0.20	0.40	0.03	0.00	0.00	2.88	-0.13	-1.35	0.18	13.35
51	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.86	0.58	0.68	-4.74	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 17 NUDO 18

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	1.09	0.79	-4.22	13.35
42	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	12.68	1.09	0.79	-4.22	13.35
44	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
45	0.20	0.40	0.03	0.00	0.00	1.51	-0.52	0.67	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.57	0.49	0.54	-3.64	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	1.36	0.91	-4.47	13.35
48	0.20	0.40	0.03	0.00	0.00	1.34	-0.48	0.65	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	13.01	1.17	0.81	-4.16	13.35
50	0.20	0.40	0.03	0.00	0.00	2.88	-0.29	-0.86	0.18	13.35
51	0.20	0.40	0.03	0.00	0.00	1.34	-0.48	0.65	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.86	0.83	0.68	-3.96	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 16 NUDO 21

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.68	-0.01	-7.59	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.53	-0.11	-0.59	0.10	13.35
43	0.20	0.40	0.03	0.00	0.00	12.68	-0.01	-7.59	0.79	13.35
44	0.20	0.40	0.03	0.00	0.00	1.53	-0.11	-0.59	0.10	13.35
45	0.20	0.40	0.03	0.00	0.00	7.09	-0.23	-3.57	0.44	13.35
46	0.20	0.40	0.03	0.00	0.00	5.07	0.02	0.32	-2.98	13.35
47	0.20	0.40	0.03	0.00	0.00	14.55	-0.05	-8.58	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.37	-0.11	-0.50	0.09	13.35
49	0.20	0.40	0.03	0.00	0.00	14.55	-0.05	-8.58	0.91	13.35
50	0.20	0.40	0.03	0.00	0.00	1.37	-0.11	-0.50	0.09	13.35
51	0.20	0.40	0.03	0.00	0.00	7.94	-0.51	-3.20	0.50	13.35
52	0.20	0.40	0.03	0.00	0.00	6.13	0.28	0.38	-2.84	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 16 NUDO 19

NIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.67	0.79	0.79	-5.15	13.35
42	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
43	0.20	0.40	0.03	0.00	0.00	12.67	0.79	0.79	-5.15	13.35
44	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
45	0.20	0.40	0.03	0.00	0.00	1.52	-0.43	0.40	0.09	13.35
46	0.20	0.40	0.03	0.00	0.00	8.57	0.34	0.54	-4.12	13.35
47	0.20	0.40	0.03	0.00	0.00	14.53	0.98	0.91	-5.64	13.35
48	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
49	0.20	0.40	0.03	0.00	0.00	14.53	0.98	0.91	-5.64	13.35
50	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
51	0.20	0.40	0.03	0.00	0.00	1.35	-0.40	0.41	0.08	13.35
52	0.20	0.40	0.03	0.00	0.00	10.85	0.58	0.68	-4.73	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 15 NUDO 24

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
43	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
44	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
45	0.20	0.40	0.03	0.00	0.00	12.67	-1.64	-2.49	0.79	13.35
46	0.20	0.40	0.03	0.00	0.00	1.58	0.53	0.10	0.68	13.35
47	0.20	0.40	0.03	0.00	0.00	14.52	-2.15	-1.94	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.41	0.47	0.09	0.59	13.35
49	0.20	0.40	0.03	0.00	0.00	14.52	-2.15	-1.94	0.91	13.35
50	0.20	0.40	0.03	0.00	0.00	1.41	0.47	0.09	0.59	13.35
51	0.20	0.40	0.03	0.00	0.00	12.99	-2.27	-0.66	0.81	13.35
52	0.20	0.40	0.03	0.00	0.00	2.94	0.59	0.18	0.04	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 15 NUDO 21

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	0.20	0.40	0.03	0.00	0.00	12.64	-0.01	-7.57	0.79	13.35
42	0.20	0.40	0.03	0.00	0.00	1.55	-0.11	-0.60	0.10	13.35
43	0.20	0.40	0.03	0.00	0.00	12.64	-0.01	-7.57	0.79	13.35
44	0.20	0.40	0.03	0.00	0.00	1.55	-0.11	-0.60	0.10	13.35
45	0.20	0.40	0.03	0.00	0.00	7.08	-0.23	-3.56	0.44	13.35
46	0.20	0.40	0.03	0.00	0.00	5.07	0.02	0.32	-2.98	13.35
47	0.20	0.40	0.03	0.00	0.00	14.50	-0.05	-8.55	0.91	13.35
48	0.20	0.40	0.03	0.00	0.00	1.38	-0.11	-0.50	0.09	13.35
49	0.20	0.40	0.03	0.00	0.00	14.50	-0.05	-8.55	0.91	13.35
50	0.20	0.40	0.03	0.00	0.00	1.38	-0.11	-0.50	0.09	13.35
51	0.20	0.40	0.03	0.00	0.00	7.91	-0.51	-3.18	0.49	13.35
52	0.20	0.40	0.03	0.00	0.00	6.13	0.28	0.38	-2.94	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 14 NUDO 26

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
42	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
43	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
44	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
45	3.00	0.40	0.03	0.00	0.00	13.68	0.66	0.06	-0.42	13.35
46	3.00	0.40	0.03	0.00	0.00	2.66	5.47	0.01	1.01	13.35
47	3.00	0.40	0.03	0.00	0.00	15.41	-0.03	-0.61	0.06	13.35
48	3.00	0.40	0.03	0.00	0.00	2.38	4.92	0.01	0.91	13.35
49	3.00	0.40	0.03	0.00	0.00	13.91	0.45	0.06	-0.47	13.35
[illegible]	3.00	0.40	0.03	0.00	0.00	3.88	4.44	0.02	0.75	13.35
[illegible]	3.00	0.40	0.03	0.00	0.00	15.41	-0.03	-0.61	0.06	13.35
52	3.00	0.40	0.03	0.00	0.00	2.38	4.92	0.01	0.91	13.35

proc Seccion transversal (con pretensado de almas)

BARRA 14 NUDO 24

HIPO	B	H	R	BW	HF	AXIL	MOME	W S/M	W I/M	W M/M
41	3.00	0.40	0.03	0.00	0.00	12.62	-1.64	-0.18	0.05	13.35
42	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
43	3.00	0.40	0.03	0.00	0.00	12.62	-1.64	-0.18	0.05	13.35
44	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
45	3.00	0.40	0.03	0.00	0.00	12.62	-1.64	-0.18	0.05	13.35
46	3.00	0.40	0.03	0.00	0.00	1.60	0.53	0.01	0.04	13.35
47	3.00	0.40	0.03	0.00	0.00	14.45	-2.15	-0.14	0.06	13.35
48	3.00	0.40	0.03	0.00	0.00	1.43	0.47	0.01	0.04	13.35
49	3.00	0.40	0.03	0.00	0.00	14.45	-2.15	-0.14	0.06	13.35
50	3.00	0.40	0.03	0.00	0.00	1.43	0.47	0.01	0.04	13.35
51	3.00	0.40	0.03	0.00	0.00	12.92	-2.27	-0.06	0.05	13.35
52	3.00	0.40	0.03	0.00	0.00	2.96	0.59	0.01	0.00	13.35

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Flexión longitudinal de la losa inferior

ESTUDIO DE LA FLEXION LONGITUDINAL DE LA LOSA INFERIOR

OBJETO

Se pretende dimensionar la losa entre costillas inferior en su zona frente a la ala permanente y las de fuerte sobrecargas.

METODOLOGIA

Para calcular tanto el reparto longitudinal como transversal de los esfuerzos se estudia el modelo especial realizado que permite calcular la distribución transversal de los esfuerzos.

Se han representado los esfuerzos longitudinales para las hipótesis simples en las barras finas, a la viga transversal-10 del modelo que ha sido ajustada con el tren de ejes A.

Los datos han sido:

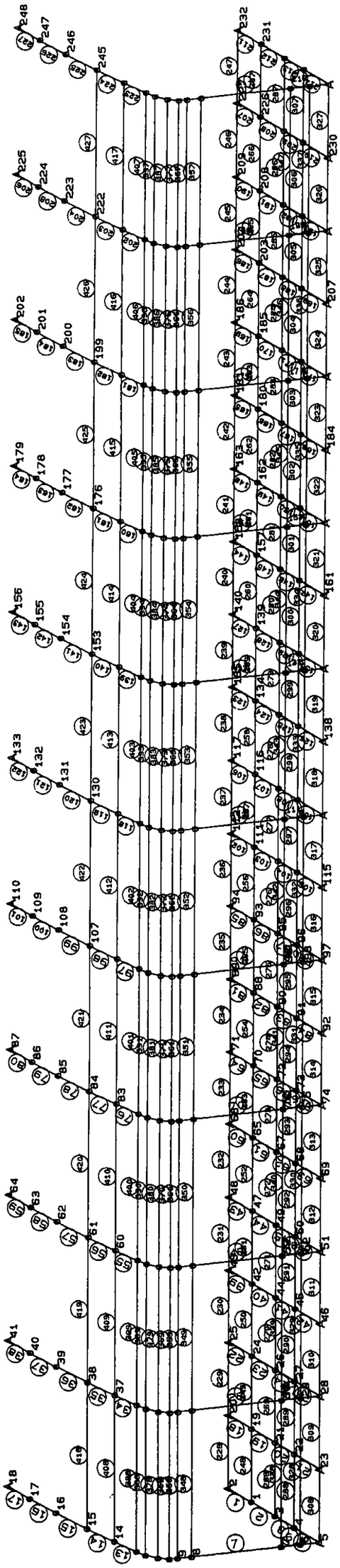
235 < 238 255 < 258 275 < 278 295 < 298 315 < 318

)

)

Puente Principal

str Modelo espacial (calculo de la secc. transversal)

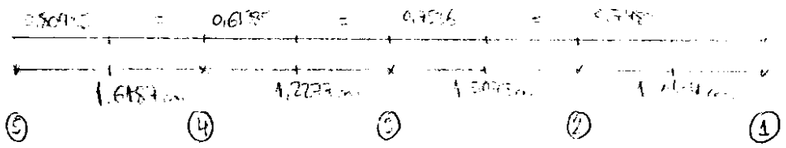


Peso propio (dovela completa)

Peso medio de dovela completa: 47,76 Tn/m.

Media dovela: $\frac{47,26}{2}$ = 26,63 Tn/m.

Reparto de cargas a Barras Longitudinales



Tipo ①: 26,63 × $\frac{0,7482}{5,85}$ = 3,406 Tn/m

Tipo ②: 26,63 · $\frac{(0,7482+0,7536)}{5,85}$ = 6,836 Tn/m

Tipo ③: 26,63 × $\frac{(0,7536+0,6138)}{5,85}$ = 6,225 Tn/m

Tipo ④: 26,63 × $\frac{(0,6138+0,[illegible])}{5,85}$ = 6,479 Tn/m

Tipo ⑤: 26,63 × [illegible] = 3,684 Tn/m

Carga Muerta

C.M = 12.132 Tn/m (Límite superior)

Carga en barras transversales

$q_1 = \frac{12.132 \times 3,00}{11,70}$ = 3,111 Tn/m.

- En barras 1 a 4

$q_2 = \frac{12.132 \times (1,50+[illegible])}{11,70}$ = [illegible] Tn/m

En barras transversales intermedias

q_3 = 3.111 Tn/m.

- En barras 211 a 214

$q_4 = \frac{12.132 \times 1,50}{11,70}$ = 1,555 Tn/m

```
estr Modelo espacial (calculo de la secc. transversal)
nume de nudo  248
nume de barr  427
nume de hipo   16
nume de apoy   53
tipo port espa
list nada
coor de nudo
      1      0.0000      0.0000      1.4964
      2      0.0000      0.0000      0.0000 desp z giro x y
      3      0.0000      0.0000      3.0036
      4      0.0000      0.0000      4.2313
      5      0.0000      0.0000      5.8500 desp x y z
      6      0.0000      0.9604      6.1049
      7      0.0000      1.9270      6.3615
      8      0.0000      6.4020      7.5493
      9      0.0000      7.1205      7.7400
     10      0.0000      7.5155      7.8207
     11      0.0000      7.9197      7.7191
     12      0.0000      8.2309      7.4052
     13      0.0000      8.3509      7.0008
     14      0.0000      8.5831      5.9339
     15      0.0000      8.8192      4.5537
     16      0.0000      9.0225      2.8511
     17      0.0000      9.1228      1.3470
     18      0.0000      9.1571      0.0000 desp z giro x y
     19      3.0000      0.0000      1.4964
     20      3.0000      0.0000      0.0000 desp z giro x y
     21      3.0000      0.0000      3.0036
     22      3.0000      0.0000      4.2313
     23      3.0000      0.0000      5.8500 desp y
     24      6.0000      0.0000      1.4964
     25      6.0000      0.0000      0.0000 desp z giro x y
     26      6.0000      0.0000      3.0036
     27      6.0000      0.0000      4.2313
     28      6.0000      0.0000      5.8500 desp y
     29      6.0000      0.9604      6.1049
     30      6.0000      1.9270      6.3615
     31      6.0000      6.4020      7.5493
     32      6.0000      7.1205      7.7400
     33      6.0000      7.5155      7.8207
     34      6.0000      7.9197      7.7191
     35      6.0000      8.2309      7.4052
     36      6.0000      8.3509      7.0008
     37      6.0000      8.5831      5.9339
     38      6.0000      8.8192      4.5537
     39      6.0000      9.0225      2.8511
     40      6.0000      9.1228      1.3470
     41      6.0000      9.1571      0.0000 desp z giro x y
     42      9.0000      0.0000      1.4964
     43      9.0000      0.0000      0.0000 desp z giro x y
     44      9.0000      0.0000      3.0036
     45      9.0000      0.0000      4.2313
     46      9.0000      0.0000      5.8500 desp y
     47     12.0000      0.0000      1.4964
     48     12.0000      0.0000      0.0000 desp z giro x y
     49     12.0000      0.0000      3.0036
     50     12.0000      0.0000      4.2313
```

51	12.0000	0.0000	5.8500 desp y
52	12.0000	0.9604	6.1049
53	12.0000	1.9270	6.3615
54	12.0000	6.4020	7.5493
55	12.0000	7.1205	7.7400
56	12.0000	7.5155	7.8207
57	12.0000	7.9197	7.7191
58	12.0000	8.2309	7.4052
59	12.0000	8.3509	7.0008
60	12.0000	8.5831	5.9339
61	12.0000	8.8192	4.5537
62	12.0000	9.0225	2.8511
63	12.0000	9.1228	1.3470
64	12.0000	9.1571	0.0000 desp z giro x y
65	15.0000	0.0000	1.4964
66	15.0000	0.0000	0.0000 desp z giro x y
67	15.0000	0.0000	3.0036
68	15.0000	0.0000	4.2313
69	15.0000	0.0000	5.8500 desp y
70	18.0000	0.0000	1.4964
71	18.0000	0.0000	0.0000 desp z giro x y
72	18.0000	0.0000	3.0036
73	18.0000	0.0000	4.2313
74	18.0000	0.0000	5.8500 desp y
75	18.0000	0.9604	6.1049
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86	18.0000	9.1228	1.3470
87	18.0000	9.1571	0.0000 desp z giro x y
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          3 0.9484 0.4192 0.6876 0.0473 0.2919 0.0384
          4 0.7636 0.2870 0.6463 0.0320 0.2628 0.0114
          5 2.4000 2.0339 2.0339 0.2194 2.8125 0.0819
          6 1.5000 1.2712 1.2712 0.0560 1.7578 0.0200
          7 0.8280 0.7017 0.7017 0.0291 0.2957 0.0110
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120 a 122 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      123 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      124 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      125 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      126 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      127 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      128 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      129 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      130 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      131 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      132 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      133 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
 34 a 140 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
 41 a 143 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      144 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      145 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      146 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      147 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      148 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      149 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      150 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      151 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      152 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      153 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      154 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
155 a 161 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
162 a 164 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      165 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      166 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      167 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      168 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      169 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      170 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      171 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      172 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      173 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      174 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      175 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
176 a 182 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
183 a 185 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      186 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      187 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      188 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      189 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      190 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      191 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      192 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      193 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      194 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      195 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      196 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
97 a 203 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
```

```
204 a 206 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      207 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      208 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      209 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      210 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      211 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      212 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      213 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      214 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      215 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      216 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      217 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
218 a 224 1.5000 1.2712 1.2712 0.0560 1.7578 0.0200
225 a 227 0.3800 0.3220 0.3220 0.0149 0.0286 0.0051
228 a 247 0.3283 0.2788 0.2788 0.0073 0.0123 0.0066
248 a 267 0.6435 0.5453 0.5453 0.0174 0.1097 0.0109
268 a 287 0.6336 0.5369 0.5369 0.0165 0.1095 0.0102
288 a 307 0.5904 0.5003 0.5003 0.0136 0.1020 0.0083
308 a 327 1.0387 0.7322 0.7322 0.0383 0.1602 0.0536
328 a 337 0.4838 0.4100 0.4100 0.0080 0.0399 0.0109 beta  14.889
338 a 347 0.3600 0.3051 0.3051 0.0069 0.0243 0.0048 beta  14.889
348 a 357 0.3200 0.2712 0.2712 0.0059 0.0171 0.0043 beta  14.889
358 a 367 0.2305 0.1953 0.1953 0.0036 0.0064 0.0031 beta  14.889
368 a 377 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta   0.985
378 a 387 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 330.790
388 a 397 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 298.719
398 a 407 0.3000 0.2542 0.2542 0.0054 0.0141 0.0040 beta 283.041
408 a 417 0.4960 0.4203 0.4203 0.0106 0.0636 0.0066 beta 281.010
418 a 427 0.2800 0.2373 0.2373 0.0072 0.0114 0.0037 beta 278.500
tama de nudo
  4 0. 0.255
 21 0. 0.255
 25 0. 0.255
 42 0. 0.255
 46 0. 0.255
 63 0. 0.255
 67 0. 0.255
 84 0. 0.255
 88 0. 0.255
105 0. 0.255
109 0. 0.255
126 0. 0.255
130 0. 0.255
147 0. 0.255
151 0. 0.255
168 0. 0.255
172 0. 0.255
189 0. 0.255
193 0. 0.255
210 0. 0.255
214 0. 0.255
cons de mate
    1 3677000. 1532000. 2.5
hipo  1 Tren-A (sobre viga transv-1)
carg en barr
* trans-1
228 fuer y conc  -2.47  0.001
228 mome z conc   1.85  0.001
```

```
248 fuer y conc -19.28  0.001
248 mome z conc  14.46  0.001
268 fuer y conc -18.65  0.001
268 mome z conc  13.99  0.001
288 fuer y conc  -3.10  0.001
288 mome z conc   2.33  0.001
228 fuer y conc  -2.47  0.75
248 fuer y conc -19.28  0.75
268 fuer y conc -18.65  0.75
288 fuer y conc  -3.10  0.75
228 fuer y conc  -2.47  2.25
248 fuer y conc -19.28  2.25
268 fuer y conc -18.65  2.25
288 fuer y conc  -3.10  2.25
hipo  2 Tren-A (sobre viga transv-2)
carg en barr
* trans-2
228 fuer y conc  -2.47 -1.500
 48 fuer y conc -19.28 -1.500
268 fuer y conc -18.65 -1.500
288 fuer y conc  -3.10 -1.500
229 fuer y conc  -2.47  0.001
249 fuer y conc -19.28  0.001
269 fuer y conc -18.65  0.001
289 fuer y conc  -3.10  0.001
229 fuer y conc  -2.47  1.500
249 fuer y conc -19.28  1.500
269 fuer y conc -18.65  1.500
 9 fuer y conc  -3.10  1.500
hipo  3 Tren-A (sobre viga transv-3)
carg en barr
* trans-3
229 fuer y conc  -2.47 -1.500
249 fuer y conc -19.28 -1.500
269 fuer y conc -18.65 -1.500
289 fuer y conc  -3.10 -1.500
230 fuer y conc  -2.47  0.001
 30 fuer y conc -19.28  0.001
270 fuer y conc -18.65  0.001
290 fuer y conc  -3.10  0.001
230 fuer y conc  -2.47  1.500
250 fuer y conc -19.28  1.500
270 fuer y conc -18.65  1.500
290 fuer y conc  -3.10  1.500
hipo  4 Tren-A (sobre viga transv-4)
carg en barr
* trans-4
230 fuer y conc  -2.47 -1.500
250 fuer y conc -19.28 -1.500
270 fuer y conc -18.65 -1.500
290 fuer y conc  -3.10 -1.500
231 fuer y conc  -2.47  0.001
251 fuer y conc -19.28  0.001
271 fuer y conc -18.65  0.001
291 fuer y conc  -3.10  0.001
231 fuer y conc  -2.47  1.500
 1 fuer y conc -19.28  1.500
271 fuer y conc -18.65  1.500
291 fuer y conc  -3.10  1.500
hipo  5 Tren-A (sobre viga transv-5)
carg en barr
* trans-5
231 fuer y conc  -2.47 -1.500
251 fuer y conc -19.28 -1.500
271 fuer y conc -18.65 -1.500
291 fuer y conc  -3.10 -1.500
232 fuer y conc  -2.47  0.001
252 fuer y conc -19.28  0.001
272 fuer y conc -18.65  0.001
292 fuer y conc  -3.10  0.001
232 fuer y conc  -2.47  1.500
252 fuer y conc -19.28  1.500
272 fuer y conc -18.65  1.500
292 fuer y conc  -3.10  1.500
hipo  6 Tren-A (sobre viga transv-6)
carg en barr
  trans-6
232 fuer y conc  -2.47 -1.500
252 fuer y conc -19.28 -1.500
272 fuer y conc -18.65 -1.500
292 fuer y conc  -3.10 -1.500
233 fuer y conc  -2.47  0.001
253 fuer y conc -19.28  0.001
273 fuer y conc -18.65  0.001
293 fuer y conc  -3.10  0.001
233 fuer y conc  -2.47  1.500
253 fuer y conc -19.28  1.500
273 fuer y conc -18.65  1.500
293 fuer y conc  -3.10  1.500
hipo  7 Tren-A (sobre viga transv-7)
carg en barr
* trans-7
233 fuer y conc  -2.47 -1.500
253 fuer y conc -19.28 -1.500
273 fuer y conc -18.65 -1.500
 93 fuer y conc  -3.10 -1.500
234 fuer y conc  -2.47  0.001
254 fuer y conc -19.28  0.001
274 fuer y conc -18.65  0.001
294 fuer y conc  -3.10  0.001
234 fuer y conc  -2.47  1.500
254 fuer y conc -19.28  1.500
274 fuer y conc -18.65  1.500
294 fuer y conc  -3.10  1.500
hipo  8 Tren-A (sobre viga transv-8)
carg en barr
* trans-8
234 fuer y conc  -2.47 -1.500
254 fuer y conc -19.28 -1.500
274 fuer y conc -18.65 -1.500
294 fuer y conc  -3.10 -1.500
235 fuer y conc  -2.47  0.001
255 fuer y conc -19.28  0.001
275 fuer y conc -18.65  0.001
295 fuer y conc  -3.10  0.001
235 fuer y conc  -2.47  1.500
```

```
35 fuer y conc -19.28  1.500
275 fuer y conc -18.65  1.500
295 fuer y conc  -3.10  1.500
hipo  9 Tren-A (sobre viga transv-9)
carg en barr
* trans-9
235 fuer y conc  -2.47 -1.500
255 fuer y conc -19.28 -1.500
275 fuer y conc -18.65 -1.500
295 fuer y conc  -3.10 -1.500
236 fuer y conc  -2.47  0.001
256 fuer y conc -19.28  0.001
276 fuer y conc -18.65  0.001
296 fuer y conc  -3.10  0.001
236 fuer y conc  -2.47  1.500
256 fuer y conc -19.28  1.500
276 fuer y conc -18.65  1.500
296 fuer y conc  -3.10  1.500
hipo 10 Tren-A (sobre viga transv-10)
carg en barr
* trans-10
236 fuer y conc  -2.47 -1.500
256 fuer y conc -19.28 -1.500
276 fuer y conc -18.65 -1.500
296 fuer y conc  -3.10 -1.500
237 fuer y conc  -2.47  0.001
257 fuer y conc -19.28  0.001
277 fuer y conc -18.65  0.001
297 fuer y conc  -3.10  0.001
237 fuer y conc  -2.47  1.500
257 fuer y conc -19.28  1.500
277 fuer y conc -18.65  1.500
297 fuer y conc  -3.10  1.500
hipo 11 Tren-A (sobre viga transv-11)
carg en barr
* trans-11
237 fuer y conc  -2.47 -1.500
 37 fuer y conc -19.28 -1.500
 77 fuer y conc -18.65 -1.500
297 fuer y conc  -3.10 -1.500
238 fuer y conc  -2.47  0.001
258 fuer y conc -19.28  0.001
278 fuer y conc -18.65  0.001
298 fuer y conc  -3.10  0.001
238 fuer y conc  -2.47  1.500
258 fuer y conc -19.28  1.500
278 fuer y conc -18.65  1.500
298 fuer y conc  -3.10  1.500
hipo 12 Tren-A (sobre viga transv-12)
carg en barr
* trans-12
238 fuer y conc  -2.47 -1.500
258 fuer y conc -19.28 -1.500
278 fuer y conc -18.65 -1.500
298 fuer y conc  -3.10 -1.500
239 fuer y conc  -2.47  0.001
259 fuer y conc -19.28  0.001
279 fuer y conc -18.65  0.001
299 fuer y conc  -3.10  0.001
239 fuer y conc  -2.47  1.500
259 fuer y conc -19.28  1.500
279 fuer y conc -18.65  1.500
299 fuer y conc  -3.10  1.500
hipo 13 Tren-A (sobre viga transv-13)
carg en barr
* trans-13
239 fuer y conc  -2.47 -1.500
259 fuer y conc -19.28 -1.500
279 fuer y conc -18.65 -1.500
299 fuer y conc  -3.10 -1.500
240 fuer y conc  -2.47  0.001
260 fuer y conc -19.28  0.001
280 fuer y conc -18.65  0.001
300 fuer y conc  -3.10  0.001
240 fuer y conc  -2.47  1.500
260 fuer y conc -19.28  1.500
280 fuer y conc -18.65  1.500
300 fuer y conc  -3.10  1.500
hipo 14 Peso propio
carg en barr
228 a 247 fuer y unif -3.406
248 a 267 fuer y unif -6.836
268 a 287 fuer y unif -6.225
288 a 307 fuer y unif -6.479
308 a 327 fuer y unif -3.684
hipo 15 Carga muerta
carg en barr
  1 a   4 fuer y unif -2.333
 18 a  25 fuer y unif -3.111
 39 a  46 fuer y unif -3.111
 60 a  67 fuer y unif -3.111
 81 a  88 fuer y unif -3.111
102 a 109 fuer y unif -3.111
123 a 130 fuer y unif -3.111
144 a 151 fuer y unif -3.111
165 a 172 fuer y unif -3.111
186 a 193 fuer y unif -3.111
207 a 210 fuer y unif -3.111
211 a 214 fuer y unif -1.555
hipo 16 tren-B
carg en barr
248 a 287 fuer y unif -8.700
calc y alma
2 2 2
```

roc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 10

hipo 10 Tren-A (sobre viga transv-10)

ESFUERZOS EN BARRAS

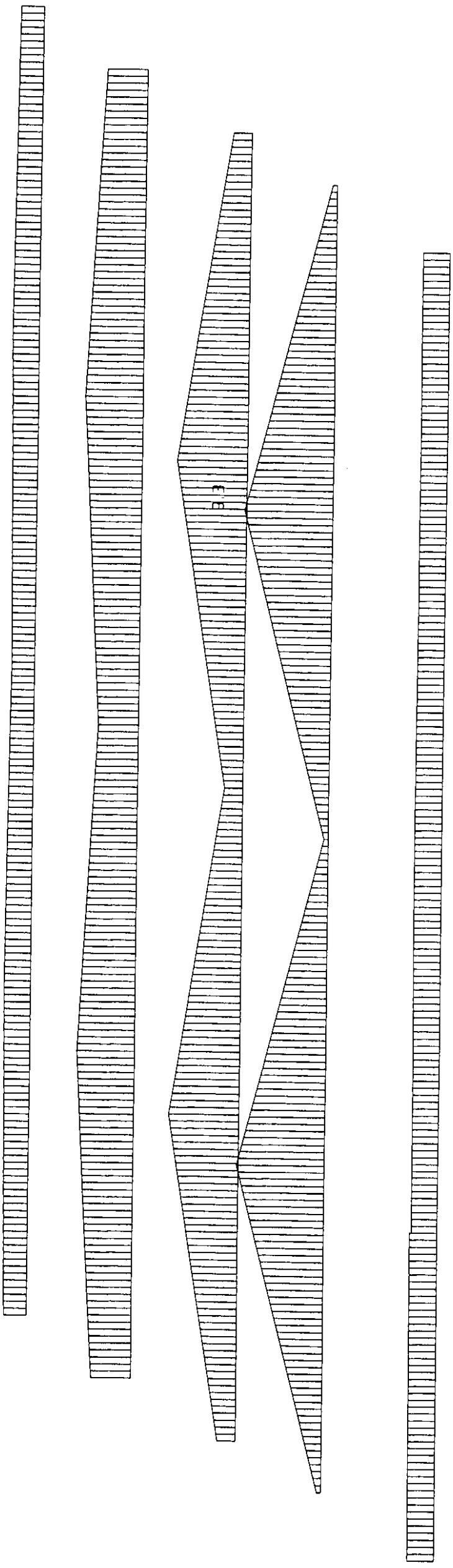
BARRA	NUDO	ESF. AXIL	ESF. CORT.Y	ESF. CORT.Z	MOME. TORSOR	MOME. FLEC.Y	MOME. FLEC.Z
228	2	0.015	0.000	0.000	0.00	0.00	0.01
228	20	-0.015	0.000	0.000	0.00	0.00	-0.01
229	20	0.045	0.000	0.000	0.00	0.00	0.01
229	25	-0.045	0.000	0.000	0.00	0.00	-0.01
230	25	0.066	-0.005	0.000	0.00	0.00	0.03
230	43	-0.066	0.005	0.000	0.00	0.00	-0.04
231	43	0.078	-0.033	0.000	0.00	0.00	0.05
231	48	-0.078	0.033	0.000	0.00	0.00	-0.15
232	48	0.049	-0.120	0.000	0.00	0.00	0.21
232	66	-0.049	0.120	0.000	0.00	0.00	-0.57
233	66	-0.017	-0.225	0.000	0.00	0.00	0.83
233	71	0.017	0.225	0.000	0.00	0.00	-1.51
234	71	-0.159	-0.077	0.000	0.00	0.00	2.51
234	89	0.159	0.077	0.000	0.00	0.00	-2.74
235	89	-0.095	2.300	0.000	0.00	0.00	5.79
235	94	0.095	-2.300	0.000	0.00	0.00	1.11
236	94	-0.142	5.647	0.000	0.00	0.00	0.85
236	112	0.142	-3.177	0.000	0.00	0.00	12.39
237	112	-0.141	-0.708	0.000	0.00	0.00	-12.39
237	117	0.141	5.648	0.000	0.00	0.00	-0.85
238	117	-0.091	-2.301	0.000	0.00	0.00	-1.11
238	135	0.091	2.301	0.000	0.00	0.00	-5.79
239	135	-0.152	0.077	0.000	0.00	0.00	2.74
239	140	0.152	-0.077	0.000	0.00	0.00	-2.51
240	140	-0.007	0.225	0.000	0.00	0.00	1.51
240	158	0.007	-0.225	0.000	0.00	0.00	-0.83
241	158	0.063	0.120	0.000	0.00	0.00	0.57
241	163	-0.063	-0.120	0.000	0.00	0.00	-0.21
242	163	0.096	0.033	0.000	0.00	0.00	0.15
242	181	-0.096	-0.033	0.000	0.00	0.00	-0.05
243	181	0.091	0.005	0.000	0.00	0.00	0.04
243	186	-0.091	-0.005	0.000	0.00	0.00	-0.03
244	186	0.076	-0.001	0.000	0.00	0.00	0.01
244	204	-0.076	0.001	0.000	0.00	0.00	-0.02
245	204	0.053	-0.001	0.000	0.00	0.00	0.01
245	209	-0.053	0.001	0.000	0.00	0.00	-0.01
246	209	0.032	0.000	0.000	0.00	0.00	0.01
246	227	-0.032	0.000	0.000	0.00	0.00	-0.01
247	227	0.011	0.000	0.000	0.00	0.00	0.00
247	232	-0.011	0.000	0.000	0.00	0.00	0.00
248	1	0.027	0.000	-0.025	0.00	0.04	0.01
248	19	-0.027	0.000	0.025	0.00	0.04	-0.01
249	19	0.092	0.003	-0.024	0.00	0.04	0.03
249	24	-0.092	-0.003	0.024	0.00	0.04	-0.02
250	24	0.136	-0.009	-0.030	0.01	0.04	0.04
250	42	-0.136	0.009	0.030	-0.01	0.05	-0.07
251	42	0.187	-0.039	-0.013	0.01	0.02	0.10
251	47	-0.187	0.039	0.013	-0.01	0.02	-0.22
252	47	0.127	-0.190	-0.033	0.06	0.05	0.33
252	65	-0.127	0.190	0.033	-0.06	0.05	-0.90
253	65	0.063	-0.313	0.060	0.22	-0.08	1.34
253	70	-0.063	0.313	-0.060	-0.22	-0.10	-2.28
254	70	-0.355	-0.087	-0.061	0.78	0.12	3.88
254	88	0.355	0.087	0.061	-0.78	0.06	-4.14
255	88	-0.165	3.051	-0.127	1.61	0.18	8.61
255	93	0.165	-3.051	0.127	-1.61	0.21	0.54
256	93	-0.365	16.822	0.127	0.76	-0.20	7.26
256	111	0.365	2.458	-0.127	-0.76	-0.18	14.29
257	111	-0.362	21.734	-0.129	-0.76	0.18	-14.28
257	116	0.362	16.826	0.129	0.76	0.20	-7.26
258	116	-0.158	-3.052	0.125	-1.61	-0.20	-0.54
258	134	0.158	3.052	-0.125	1.61	-0.17	-8.61
259	134	-0.342	0.087	0.058	-0.78	-0.06	4.14
259	139	0.342	-0.087	-0.058	0.78	-0.12	-3.88
260	139	0.082	0.313	-0.063	-0.22	0.10	2.28
260	157	-0.082	-0.313	0.063	0.22	0.09	-1.34
261	157	0.154	0.190	0.030	-0.06	-0.04	0.90
261	162	-0.154	-0.190	-0.030	0.06	-0.04	-0.33
262	162	0.222	0.039	0.009	-0.01	-0.01	0.22
262	180	-0.222	-0.039	-0.009	0.01	-0.01	-0.10
263	180	0.182	0.009	0.026	-0.01	-0.04	0.07
263	185	-0.182	-0.009	-0.026	0.01	-0.04	-0.04
264	185	0.151	-0.004	0.018	0.00	-0.03	0.02
264	203	-0.151	0.004	-0.018	0.00	-0.03	-0.03
265	203	0.100	-0.001	0.019	0.00	-0.03	0.01
265	208	-0.100	0.001	-0.019	0.00	-0.03	-0.02
266	208	0.062	0.000	0.016	0.00	-0.02	0.01
266	226	-0.062	0.000	-0.016	0.00	-0.02	-0.01
267	226	0.020	0.000	0.015	0.00	-0.02	0.00
267	231	-0.020	0.000	-0.015	0.00	-0.02	0.00
268	3	0.015	-0.001	-0.049	0.01	0.08	0.01
268	21	-0.015	0.001	0.049	-0.01	0.07	-0.01
269	21	0.098	0.010	-0.049	0.01	0.07	0.03
269	26	-0.098	-0.010	0.049	-0.01	0.08	0.00
270	26	0.132	-0.012	-0.066	0.02	0.10	0.03
270	44	-0.132	0.012	0.066	-0.02	0.10	-0.07
271	44	0.270	0.013	-0.042	0.02	0.05	0.14
271	49	-0.270	-0.013	0.042	-0.02	0.07	-0.10
272	49	0.178	-0.158	-0.100	0.14	0.15	0.25
272	67	-0.178	0.158	0.100	-0.14	0.15	-0.72
273	67	0.388	-0.137	0.065	0.46	-0.12	1.14
273	72	-0.388	0.137	-0.065	-0.46	-0.08	-1.55
274	72	-0.482	-0.087	-0.186	1.55	0.38	2.74
274	90	0.482	0.087	0.186	-1.55	0.17	-3.00
275	90	-0.016	1.310	-0.301	3.39	0.40	5.33
275	95	0.016	-1.310	0.301	-3.39	0.50	-1.40
276	95	-0.636	15.562	0.259	1.90	-0.39	8.06
276	113	0.636	3.088	-0.259	-1.90	-0.39	10.65
277	113	-0.634	21.733	-0.262	-1.90	0.39	-10.65
277	118	0.634	15.567	0.262	1.90	0.40	-8.06
278	118	-0.011	-1.311	0.298	-3.39	-0.50	1.40
278	136	0.011	1.311	-0.298	3.39	-0.39	-5.34

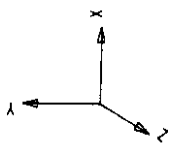
279	136	-0.472	0.087	0.182	-1.56	-0.17	3.00
279	141	0.472	-0.087	-0.182	1.56	-0.38	-2.74
280	141	0.403	0.137	-0.069	-0.46	0.08	1.55
280	159	-0.403	-0.137	0.069	0.46	0.12	-1.14
281	159	0.200	0.158	0.094	-0.14	-0.14	0.72
281	164	-0.200	-0.158	-0.094	0.14	-0.14	-0.25
282	164	0.297	-0.013	0.035	-0.02	-0.06	0.10
282	182	-0.297	0.013	-0.035	0.02	-0.04	-0.14
283	182	0.170	0.012	0.058	-0.02	-0.09	0.07
283	187	-0.170	-0.012	-0.058	0.02	-0.08	-0.03
284	187	0.147	-0.011	0.038	-0.01	-0.06	0.00
284	205	-0.147	0.011	-0.038	0.01	-0.05	-0.04
285	205	0.081	0.000	0.038	-0.01	-0.06	0.01
285	210	-0.081	0.000	-0.038	0.01	-0.06	-0.01
286	210	0.057	-0.001	0.031	0.00	-0.05	0.01
286	228	-0.057	0.001	-0.031	0.00	-0.05	-0.01
287	228	0.014	-0.001	0.028	0.00	-0.04	0.00
287	233	-0.014	0.001	-0.028	0.00	-0.05	0.00
288	4	-0.007	-0.001	-0.066	0.01	0.11	0.00
288	22	0.007	0.001	0.066	-0.01	0.09	0.00
289	22	0.082	0.018	-0.069	0.01	0.09	0.04
289	27	-0.082	-0.018	0.069	-0.01	0.12	0.01
290	27	0.070	-0.009	-0.097	0.03	0.15	0.02
290	45	-0.070	0.009	0.097	-0.03	0.14	-0.04
291	45	0.303	0.079	-0.093	0.05	0.09	0.19
291	50	-0.303	-0.079	0.093	-0.05	0.19	0.05
292	50	0.101	-0.089	-0.197	0.20	0.32	0.14
292	68	-0.101	0.089	0.197	-0.20	0.27	-0.41
293	68	0.820	0.111	-0.063	0.63	-0.05	0.86
293	73	-0.820	-0.111	0.063	-0.63	0.24	-0.53
294	73	-0.610	-0.041	-0.417	1.89	0.91	1.37
294	91	0.610	0.041	0.417	-1.89	0.35	-1.49
295	91	0.421	-0.267	-0.519	4.14	0.64	1.36
295	96	-0.421	0.267	0.519	-4.14	0.92	-2.16
296	96	-0.987	5.998	0.318	2.67	-0.41	3.55
296	114	0.987	-2.898	-0.318	-2.67	-0.54	9.80
297	114	-0.986	0.200	-0.322	-2.67	0.55	-9.80
297	119	0.986	6.000	0.322	2.67	0.42	-3.55
298	119	0.425	0.266	0.515	-4.14	-0.91	2.16
298	137	-0.425	-0.266	-0.515	4.14	-0.63	-1.36
299	137	-0.603	0.041	0.412	-1.89	-0.34	1.49
299	142	0.603	-0.041	-0.412	1.89	-0.90	-1.37
300	142	0.830	-0.111	0.058	-0.63	-0.24	0.53
300	160	-0.830	0.111	-0.058	0.63	0.06	-0.86
301	160	0.114	0.088	0.190	-0.20	-0.26	0.41
301	165	-0.114	-0.088	-0.190	0.20	-0.31	-0.15
302	165	0.321	-0.079	0.085	-0.05	-0.18	-0.05
302	183	-0.321	0.079	-0.085	0.05	-0.08	-0.19
303	183	0.094	0.009	0.087	-0.03	-0.13	0.05
303	188	-0.094	-0.009	-0.087	0.03	-0.13	-0.02
304	188	0.115	-0.019	0.054	-0.01	-0.10	-0.01
304	206	-0.115	0.019	-0.054	0.01	-0.07	-0.04
305	206	0.047	0.000	0.050	-0.01	-0.07	0.01
305	211	-0.047	0.000	-0.050	0.01	-0.08	0.00
306	211	0.043	-0.001	0.040	-0.01	-0.07	0.01
306	229	-0.043	0.001	-0.040	0.01	-0.05	-0.01
307	229	0.008	-0.001	0.035	0.00	-0.05	0.00
307	234	-0.008	0.001	-0.035	0.00	-0.06	0.00

308	5	0.105	-0.101	-0.138	0.08	0.26	-0.25
308	23	-0.105	0.101	0.138	-0.08	0.15	-0.05
309	23	-0.163	-0.096	-0.149	0.17	0.15	-0.04
309	28	0.163	0.096	0.149	-0.17	0.30	-0.24
310	28	0.042	-0.147	-0.209	0.20	0.38	-0.29
310	46	-0.042	0.147	0.209	-0.20	0.25	-0.15
311	46	-0.392	-0.098	-0.337	0.73	0.21	-0.11
311	51	0.392	0.098	0.337	-0.73	0.80	-0.19
312	51	0.217	-0.446	-0.584	1.02	1.14	-0.49
312	69	-0.217	0.446	0.584	-1.02	0.62	-0.84
313	69	-0.582	-0.303	-0.827	3.50	0.19	-0.72
313	74	0.582	0.303	0.827	-3.50	2.29	-0.19
314	74	2.478	-2.168	-1.631	6.25	3.83	-1.84
314	92	-2.478	2.168	1.631	-6.25	1.06	-4.67
315	92	0.728	-2.589	-1.626	7.24	1.62	-5.04
315	97	-0.728	2.589	1.626	-7.24	3.26	-2.73
316	97	-1.263	-0.358	0.350	14.20	0.04	-0.76
316	115	1.263	0.358	-0.350	-14.20	-1.09	-0.31
317	115	-1.270	0.349	-0.356	-14.20	1.09	0.31
317	120	1.270	-0.349	0.356	14.20	-0.03	0.74
318	120	0.739	2.584	1.620	-7.24	-3.25	2.71
318	138	-0.739	-2.584	-1.620	7.24	-1.61	5.04
319	138	2.473	2.161	1.623	-6.25	-1.05	4.67
319	143	-2.473	-2.161	-1.623	6.25	-3.82	1.81
320	143	-0.565	0.297	0.818	-3.50	-2.28	0.17
320	161	0.565	-0.297	-0.818	3.50	-0.18	0.72
321	161	0.212	0.434	0.573	-1.02	-0.60	0.84
321	166	-0.212	-0.434	-0.573	1.02	-1.12	0.46
322	166	-0.365	0.089	0.324	-0.73	-0.78	0.15
322	184	0.365	-0.089	-0.324	0.73	-0.19	0.11
323	184	0.034	0.128	0.192	-0.20	-0.23	0.15
323	189	-0.034	-0.128	-0.192	0.20	-0.35	0.24
324	189	-0.122	0.081	0.126	-0.17	-0.26	0.20
324	207	0.122	-0.081	-0.126	0.17	-0.11	0.05
325	207	0.085	0.072	0.094	-0.07	-0.11	0.04
325	212	-0.085	-0.072	-0.094	0.07	-0.17	0.18
326	212	-0.057	0.063	0.076	-0.05	-0.14	0.17
326	230	0.057	-0.063	-0.076	0.05	-0.09	0.02
327	230	0.083	0.057	0.060	-0.04	-0.07	0.02
327	235	-0.083	-0.057	-0.060	0.04	-0.11	0.16

proc Modelo espacial (calculo de la secc. transversal)
hipo 14 Peso propio

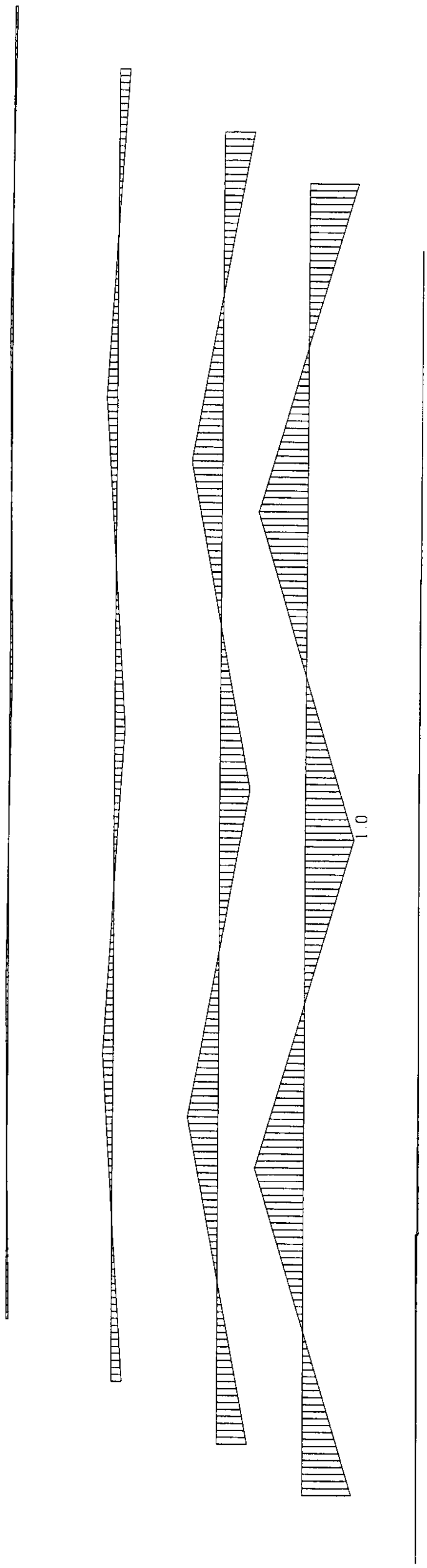
mz 5.0





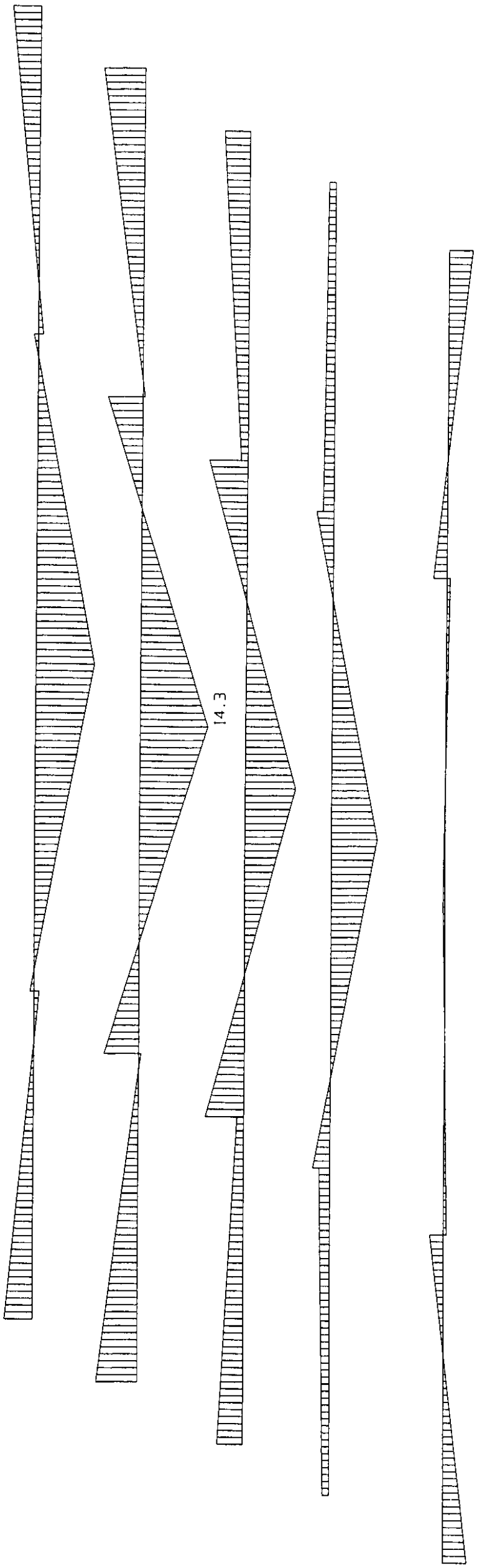
proc Modelo espacial (calculo de la secc. transversal)
hipo 15 Carga muerta

mz 1.0



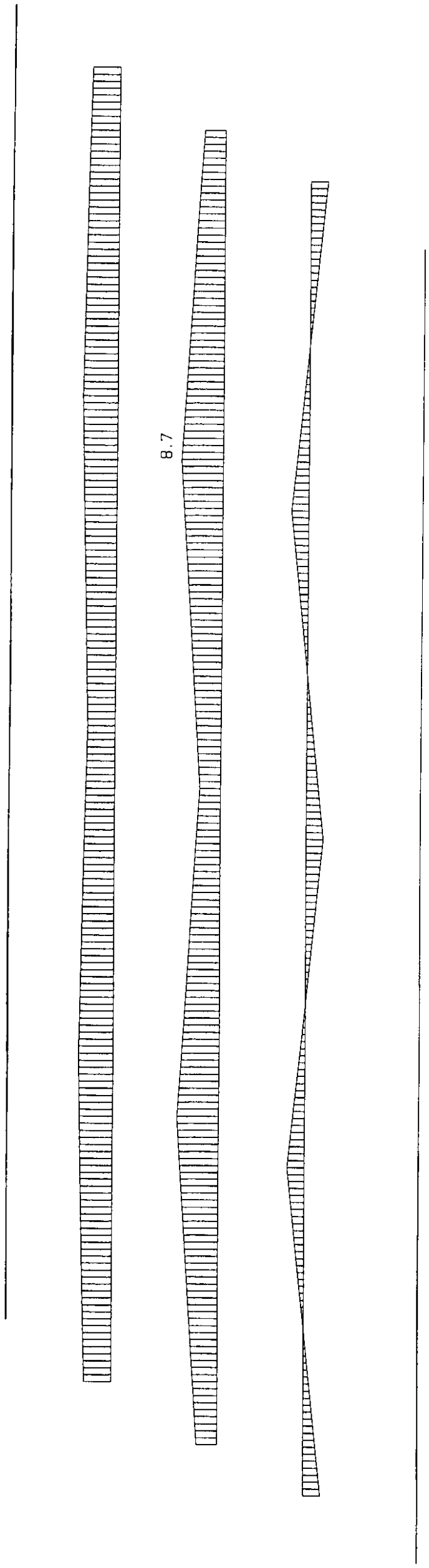
proc Modelo espacial (calculo de la secc. transversal)
tipo 10 Tren-A (sobre viga transv-10)

mz 10.0



proc Modelo espacial (calculo de la secc. transversal)
hipo 16 tren-B

mz 10.0



PESO PROPIO

$q_{ex}(q_{se}) = 0.392$ n.

$q_p = 0.392 \cdot 2.5 = 0.980$ T/n²

$\eta^- = q l^2/12 = -0.98 \cdot \frac{3^2}{12} = -0.735$ n.T/n

$\eta^+ = q l^2/24 = 0.368$ n.T/n

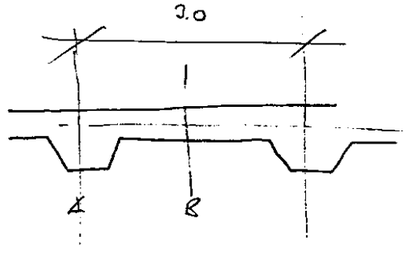
CARGA MUERTA

$q_c = \frac{12.13}{11.70} = 1.037$ T/n²

$\eta^- = \frac{q l^2}{12} = -1.037 \cdot \frac{3^2}{12} = -0.778$ n.T/n.

$\eta^+ = \frac{q l^2}{24} = 0.389$

SOBRECARGA TRAV B



Seccion A

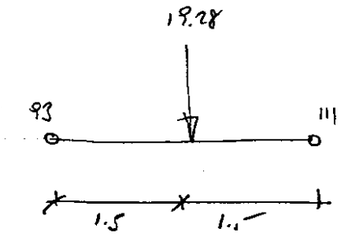
$\eta^-_{ex\,A} = -\frac{8.7}{1.2} = -7.25$ n.T/n.

$\eta^+_{ex,A} = \frac{4}{1.2} = 3.33$ n.T/n.

Seccion B

$\eta^+_{ex,B} = \left(8.7 \frac{9}{24} - 6\right) \frac{1}{1.2} = -2.28$

SOBRECARGA TRAV. A



. Cyes en Serv 256

. Efrys en Nods



$\eta_{ex} = \frac{14.3 - 7.30}{2} + 19.28 \cdot \frac{3}{3} = 17.86$ n.T

Seccion A

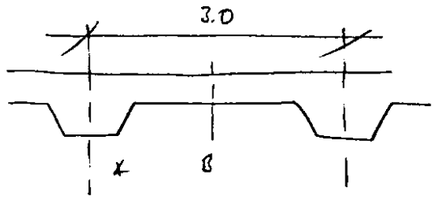
$\eta^-_{ex,A} = \frac{-7.30}{1.2} = -6.08$ n.T/n

$M^+_{ex,A} = \frac{14.3}{1.2} = 11.92$ n.T/n

Seccion B

$\eta^+_{ex\,B} = \frac{17.86}{1.2} = 15.0$ n.T/n.

COMBINACIÓN DE HITOTSUBASHI



- SECCIÓN A

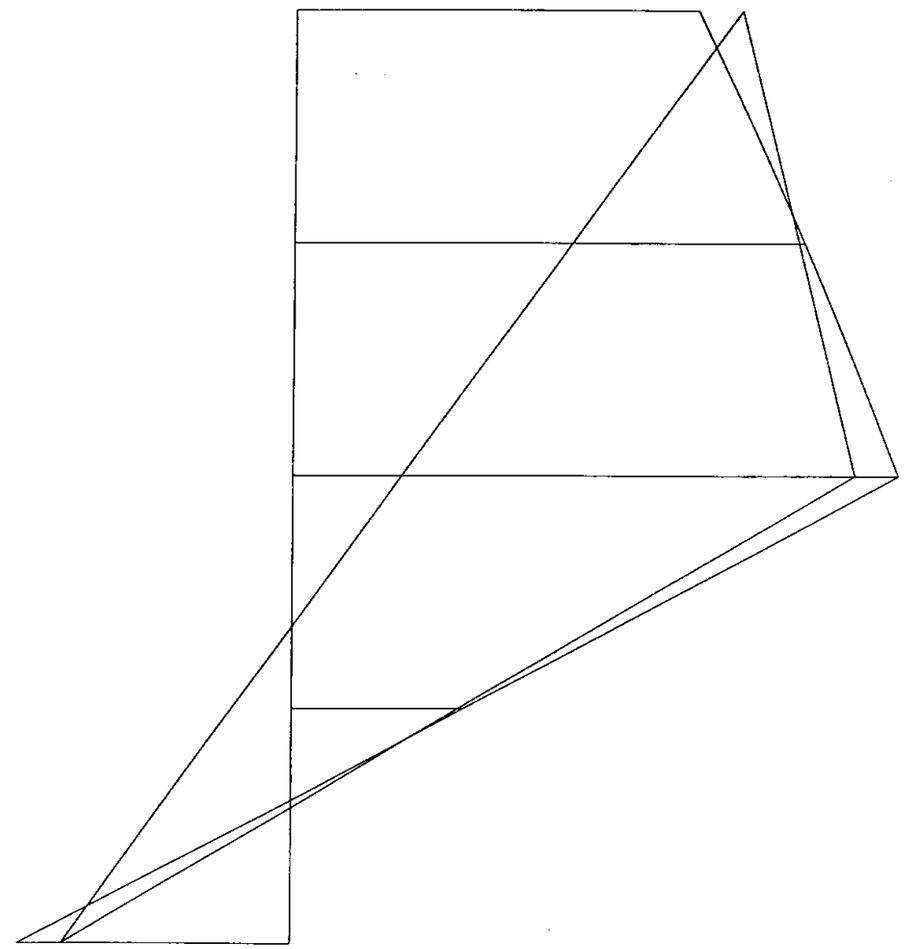
$M^{-}_{A,B} = -1.5\,(0.735 + 0.778 + 7.25) = -13.14$ m.T/m.

$M^{+}_{A,B} = 1.5\,(-0.735 - 0.778 + 11.82) = 15.61$ m.T/m.

- SECCIÓN B

$M^{+}_{A,B} = 1.50\,(0.368 + 0.389 + 15.0) = 23.64$ m.T

SUPERPOSICIÓN DE ESTRUCTURA EN CENTRO DE VANO



)

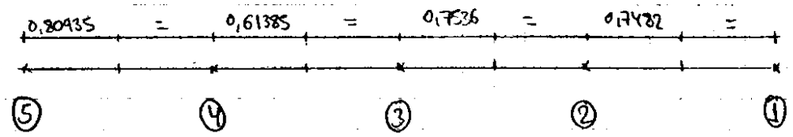
Vanos de Acceso

ACCIONES

Peso propio (dovela completa)

Peso dovela = 22,19 Tn/m. ; Media dovela = 11,10 Tn/m.

Reparto de cargas en barras longitudinales.



Tipo ① : $11,10 \times \frac{0,7482}{5,85} = 1,420$ Tn/m.

Tipo ② : $11,10 \times \frac{(0,7482+0,7536)}{5,85} = 2,850$ Tn/m.

Tipo ③ : $11,10 \times \frac{(0,7536+0,61385)}{5,85} = 2,595$ Tn/m.

Tipo ④ : $11,10 \times \frac{(0,61385+0,80935)}{5,85} = 2,700$ Tn/m.

Tipo ⑤ : $11,10 \times \frac{(0,80935)}{5,85} = 1,536$ Tn/m.

Carga Muerta

C.M = 12,132 Tn/m (Límite superior)

Carga en barras transversales

$$q_1 = \frac{12,132 \times 3,00}{11,70} = 3,111 \text{ Tn/m.}$$

- En barras 1 a 4

$$q_2 = \frac{12,132 \times (1,50+0,75)}{11,70} = 2,333 \text{ Tn/m}$$

- En barras transversales intermedias

$q_3 = 3,111$ Tn/m.

- En barras 211 a 214

$$q_4 = \frac{12,132 \times 1,50}{11,70} = 1,555 \text{ Tn/m}$$

```
estr Modelo espacial (calculo de la secc. transversal)
nume de nudo  248
nume de barr  427
nume de hipo   16
nume de apoy   53
tipo port espa
list nada
coor de nudo
```

1	0.0000	0.0000	1.4964
2	0.0000	0.0000	0.0000 desp z giro x y
3	0.0000	0.0000	3.0036
4	0.0000	0.0000	4.2313
5	0.0000	0.0000	5.8500 desp x y z
6	0.0000	0.9604	6.1049
7	0.0000	1.9270	6.3615
8	0.0000	6.4020	7.5493
9	0.0000	7.1205	7.7400
10	0.0000	7.5155	7.8207
11	0.0000	7.9197	7.7191
12	0.0000	8.2309	7.4052
13	0.0000	8.3509	7.0008
14	0.0000	8.5831	5.9339
15	0.0000	8.8192	4.5537
16	0.0000	9.0225	2.8511
17	0.0000	9.1228	1.3470
18	0.0000	9.1571	0.0000 s
19	3.0000	0.0000	1.4964
20	3.0000	0.0000	0.0000 desp z giro x y
21	3.0000	0.0000	3.0036
22	3.0000	0.0000	4.2313
23	3.0000	0.0000	5.8500 desp y
24	6.0000	0.0000	1.4964
25	6.0000	0.0000	0.0000 desp z giro x y
26	6.0000	0.0000	3.0036
27	6.0000	0.0000	4.2313
28	6.0000	0.0000	5.8500 desp y
29	6.0000	0.9604	6.1049
30	6.0000	1.9270	6.3615
31	6.0000	6.4020	7.5493
32	6.0000	7.1205	7.7400
33	6.0000	7.5155	7.8207
34	6.0000	7.9197	7.7191
35	6.0000	8.2309	7.4052
36	6.0000	8.3509	7.0008
37	6.0000	8.5831	5.9339
38	6.0000	8.8192	4.5537
39	6.0000	9.0225	2.8511
40	6.0000	9.1228	1.3470
41	6.0000	9.1571	0.0000 s
42	9.0000	0.0000	1.4964
43	9.0000	0.0000	0.0000 desp z giro x y
44	9.0000	0.0000	3.0036
45	9.0000	0.0000	4.2313
46	9.0000	0.0000	5.8500 desp y
47	12.0000	0.0000	1.4964
48	12.0000	0.0000	0.0000 desp z giro x y
49	12.0000	0.0000	3.0036
50	12.0000	0.0000	4.2313
51	12.0000	0.0000	5.8500 desp y
52	12.0000	0.9604	6.1049
53	12.0000	1.9270	6.3615
54	12.0000	6.4020	7.5493
55	12.0000	7.1205	7.7400
56	12.0000	7.5155	7.8207
57	12.0000	7.9197	7.7191
58	12.0000	8.2309	7.4052
59	12.0000	8.3509	7.0008
60	12.0000	8.5831	5.9339
61	12.0000	8.8192	4.5537
62	12.0000	9.0225	2.8511
63	12.0000	9.1228	1.3470
64	12.0000	9.1571	0.0000 s
65	15.0000	0.0000	1.4964
66	15.0000	0.0000	0.0000 desp z giro x y
67	15.0000	0.0000	3.0036
68	15.0000	0.0000	4.2313
69	15.0000	0.0000	5.8500 desp y
70	18.0000	0.0000	1.4964
71	18.0000	0.0000	0.0000 desp z giro x y
72	18.0000	0.0000	3.0036
73	18.0000	0.0000	4.2313
74	18.0000	0.0000	5.8500 desp y
75	18.0000	0.9604	6.1049
76	18.0000	1.9270	6.3615
77	18.0000	6.4020	7.5493
78	18.0000	7.1205	7.7400
79	18.0000	7.5155	7.8207
80	18.0000	7.9197	7.7191
81	18.0000	8.2309	7.4052
82	18.0000	8.3509	7.0008
83	18.0000	8.5831	5.9339
84	18.0000	8.8192	4.5537
85	18.0000	9.0225	2.8511
86	18.0000	9.1228	1.3470
87	18.0000	9.1571	0.0000 s
88	21.0000	0.0000	1.4964
89	21.0000	0.0000	0.0000 desp z giro x y
90	21.0000	0.0000	3.0036
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92	21.0000	0.0000	5.8500 desp y
93	24.0000	0.0000	1.4964
94	24.0000	0.0000	0.0000 desp z giro x y
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97	24.0000	0.0000	5.8500 desp y
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        7 0.8280 0.7017 0.7017 0.0291 0.2957 0.0110
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      129 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      130 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      131 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      132 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
```

```
      133 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
134 a 140 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
141 a 143 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      144 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      145 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      146 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      147 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      148 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      149 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      150 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      151 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      152 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      153 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      154 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
155 a 161 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
162 a 164 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      165 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      166 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      167 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      168 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      169 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      170 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      171 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      172 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      173 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      174 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      175 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
176 a 182 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
183 a 185 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      186 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      187 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      188 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      189 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      190 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      191 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      192 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      193 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      194 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      195 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      196 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
197 a 203 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
204 a 206 0.1600 0.1356 0.1356 0.0036 0.0021 0.0021
      207 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      208 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      209 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      210 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      211 1.4624 0.5592 1.0562 0.0811 0.7004 0.1185
      212 1.3276 0.5071 0.9722 0.0681 0.6444 0.0828
      213 1.1563 0.4192 0.8954 0.0544 0.5921 0.0421
      214 0.9590 0.2870 0.8417 0.0379 0.5533 0.0131
      215 3.8400 3.2542 3.2542 0.2446 11.520 0.1311
      216 2.4000 2.0339 2.0339 0.0613 7.2000 0.0320
      217 1.0560 0.8949 0.8949 0.0255 0.6133 0.0141
218 a 224 1.5000 1.2712 1.2712 0.0560 1.7578 0.0200
225 a 227 0.3800 0.3220 0.3220 0.0149 0.0286 0.0051
228 a 247 0.3283 0.2788 0.2788 0.0073 0.0123 0.0066
248 a 267 0.6435 0.5453 0.5453 0.0174 0.1097 0.0109
268 a 287 0.6336 0.5369 0.5369 0.0165 0.1095 0.0102
288 a 307 0.5904 0.5003 0.5003 0.0136 0.1020 0.0083
308 a 327 1.0387 0.7322 0.7322 0.0383 0.1602 0.0536
328 a 337 0.4838 0.4100 0.4100 0.0080 0.0399 0.0109 beta  14.889
338 a 347 0.3600 0.3051 0.3051 0.0069 0.0243 0.0048 beta  14.889
348 a 357 0.3200 0.2712 0.2712 0.0059 0.0171 0.0043 beta  14.889
358 a 367 0.2305 0.1953 0.1953 0.0036 0.0064 0.0031 beta  14.889
368 a 377 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta   0.985
378 a 387 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 330.790
388 a 397 0.1739 0.1474 0.1474 0.0021 0.0029 0.0022 beta 298.719
398 a 407 0.3000 0.2542 0.2542 0.0054 0.0141 0.0040 beta 283.041
408 a 417 0.4960 0.4203 0.4203 0.0106 0.0636 0.0066 beta 281.010
418 a 427 0.2800 0.2373 0.2373 0.0072 0.0114 0.0037 beta 278.500
tama de nudo
  4 0. 0.255
 21 0. 0.255
 25 0. 0.255
 42 0. 0.255
 46 0. 0.255
 63 0. 0.255
 67 0. 0.255
 84 0. 0.255
 88 0. 0.255
105 0. 0.255
109 0. 0.255
126 0. 0.255
130 0. 0.255
147 0. 0.255
151 0. 0.255
168 0. 0.255
172 0. 0.255
189 0. 0.255
193 0. 0.255
210 0. 0.255
214 0. 0.255
cons de mate
    1 3677000. 1532000. 2.5
hipo  1 Tren-A (sobre viga transv-1)
carg en barr
* trans-1
228 fuer y conc  -2.47  0.001
228 mome z conc   1.85  0.001
248 fuer y conc -19.28  0.001
248 mome z conc  14.46  0.001
268 fuer y conc -18.65  0.001
268 mome z conc  13.99  0.001
288 fuer y conc  -3.10  0.001
288 mome z conc   2.33  0.001
228 fuer y conc  -2.47  0.75
248 fuer y conc -19.28  0.75
268 fuer y conc -18.65  0.75
288 fuer y conc  -3.10  0.75
228 fuer y conc  -2.47  2.25
248 fuer y conc -19.28  2.25
268 fuer y conc -18.65  2.25
```

288 fuer y conc -3.10 2.25
hipo 2 Tren-A (sobre viga transv-2)
carg en barr
* trans-2
228 fuer y conc -2.47 -1.500
248 fuer y conc -19.28 -1.500
268 fuer y conc -18.65 -1.500
288 fuer y conc -3.10 -1.500
229 fuer y conc -2.47 0.001
249 fuer y conc -19.28 0.001
269 fuer y conc -18.65 0.001
289 fuer y conc -3.10 0.001
229 fuer y conc -2.47 1.500
249 fuer y conc -19.28 1.500
269 fuer y conc -18.65 1.500
289 fuer y conc -3.10 1.500
hipo 3 Tren-A (sobre viga transv-3)
carg en barr
* trans-3
229 fuer y conc -2.47 -1.500
249 fuer y conc -19.28 -1.500
269 fuer y conc -18.65 -1.500
289 fuer y conc -3.10 -1.500
230 fuer y conc -2.47 0.001
250 fuer y conc -19.28 0.001
270 fuer y conc -18.65 0.001
290 fuer y conc -3.10 0.001
230 fuer y conc -2.47 1.500
250 fuer y conc -19.28 1.500
270 fuer y conc -18.65 1.500
290 fuer y conc -3.10 1.500
hipo 4 Tren-A (sobre viga transv-4)
carg en barr
* trans-4
230 fuer y conc -2.47 -1.500
250 fuer y conc -19.28 -1.500
270 fuer y conc -18.65 -1.500
290 fuer y conc -3.10 -1.500
231 fuer y conc -2.47 0.001
251 fuer y conc -19.28 0.001
271 fuer y conc -18.65 0.001
291 fuer y conc -3.10 0.001
231 fuer y conc -2.47 1.500
251 fuer y conc -19.28 1.500
271 fuer y conc -18.65 1.500
291 fuer y conc -3.10 1.500
hipo 5 Tren-A (sobre viga transv-5)
carg en barr
* trans-5
231 fuer y conc -2.47 -1.500
251 fuer y conc -19.28 -1.500
271 fuer y conc -18.65 -1.500
291 fuer y conc -3.10 -1.500
232 fuer y conc -2.47 0.001
252 fuer y conc -19.28 0.001
272 fuer y conc -18.65 0.001
292 fuer y conc -3.10 0.001
232 fuer y conc -2.47 1.500
252 fuer y conc -19.28 1.500
272 fuer y conc -18.65 1.500
292 fuer y conc -3.10 1.500
hipo 6 Tren-A (sobre viga transv-6)
carg en barr
* trans-6
232 fuer y conc -2.47 -1.500
252 fuer y conc -19.28 -1.500
272 fuer y conc -18.65 -1.500
292 fuer y conc -3.10 -1.500
233 fuer y conc -2.47 0.001
253 fuer y conc -19.28 0.001
273 fuer y conc -18.65 0.001
293 fuer y conc -3.10 0.001
233 fuer y conc -2.47 1.500
253 fuer y conc -19.28 1.500
273 fuer y conc -18.65 1.500
293 fuer y conc -3.10 1.500
hipo 7 Tren-A (sobre viga transv-7)
carg en barr
* trans-7
233 fuer y conc -2.47 -1.500
253 fuer y conc -19.28 -1.500
273 fuer y conc -18.65 -1.500
293 fuer y conc -3.10 -1.500
234 fuer y conc -2.47 0.001
254 fuer y conc -19.28 0.001
274 fuer y conc -18.65 0.001
294 fuer y conc -3.10 0.001
234 fuer y conc -2.47 1.500
254 fuer y conc -19.28 1.500
274 fuer y conc -18.65 1.500
294 fuer y conc -3.10 1.500
hipo 8 Tren-A (sobre viga transv-8)
carg en barr
* trans-8
234 fuer y conc -2.47 -1.500
254 fuer y conc -19.28 -1.500
274 fuer y conc -18.65 -1.500
294 fuer y conc -3.10 -1.500
235 fuer y conc -2.47 0.001
255 fuer y conc -19.28 0.001
275 fuer y conc -18.65 0.001
295 fuer y conc -3.10 0.001
235 fuer y conc -2.47 1.500
255 fuer y conc -19.28 1.500
275 fuer y conc -18.65 1.500
295 fuer y conc -3.10 1.500
hipo 9 Tren-A (sobre viga transv-9)
carg en barr
* trans-9
235 fuer y conc -2.47 -1.500
255 fuer y conc -19.28 -1.500
275 fuer y conc -18.65 -1.500

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295 fuer y conc  -3.10 -1.500
236 fuer y conc  -2.47  0.001
256 fuer y conc -19.28  0.001
276 fuer y conc -18.65  0.001
296 fuer y conc  -3.10  0.001
236 fuer y conc  -2.47  1.500
256 fuer y conc -19.28  1.500
276 fuer y conc -18.65  1.500
296 fuer y conc  -3.10  1.500
hipo 10 Tren-A (sobre viga transv-10)
carg en barr
* trans-10
236 fuer y conc  -2.47 -1.500
256 fuer y conc -19.28 -1.500
276 fuer y conc -18.65 -1.500
296 fuer y conc  -3.10 -1.500
237 fuer y conc  -2.47  0.001
257 fuer y conc -19.28  0.001
277 fuer y conc -18.65  0.001
297 fuer y conc  -3.10  0.001
237 fuer y conc  -2.47  1.500
257 fuer y conc -19.28  1.500
277 fuer y conc -18.65  1.500
297 fuer y conc  -3.10  1.500
hipo 11 Tren-A (sobre viga transv-11)
carg en barr
* trans-11
237 fuer y conc  -2.47 -1.500
257 fuer y conc -19.28 -1.500
277 fuer y conc -18.65 -1.500
297 fuer y conc  -3.10 -1.500
238 fuer y conc  -2.47  0.001
258 fuer y conc -19.28  0.001
278 fuer y conc -18.65  0.001
298 fuer y conc  -3.10  0.001
238 fuer y conc  -2.47  1.500
258 fuer y conc -19.28  1.500
278 fuer y conc -18.65  1.500
298 fuer y conc  -3.10  1.500
hipo 12 Tren-A (sobre viga transv-12)
carg en barr
* trans-12
238 fuer y conc  -2.47 -1.500
258 fuer y conc -19.28 -1.500
278 fuer y conc -18.65 -1.500
298 fuer y conc  -3.10 -1.500
239 fuer y conc  -2.47  0.001
259 fuer y conc -19.28  0.001
279 fuer y conc -18.65  0.001
299 fuer y conc  -3.10  0.001
239 fuer y conc  -2.47  1.500
259 fuer y conc -19.28  1.500
279 fuer y conc -18.65  1.500
299 fuer y conc  -3.10  1.500
hipo 13 Tren-A (sobre viga transv-13)
carg en barr
* trans-13
239 fuer y conc  -2.47 -1.500
259 fuer y conc -19.28 -1.500
279 fuer y conc -18.65 -1.500
299 fuer y conc  -3.10 -1.500
240 fuer y conc  -2.47  0.001
260 fuer y conc -19.28  0.001
280 fuer y conc -18.65  0.001
300 fuer y conc  -3.10  0.001
240 fuer y conc  -2.47  1.500
260 fuer y conc -19.28  1.500
280 fuer y conc -18.65  1.500
300 fuer y conc  -3.10  1.500
hipo 14 Peso propio
carg en barr
228 a 247 fuer y unif -1.420
248 a 267 fuer y unif -2.850
268 a 287 fuer y unif -2.595
288 a 307 fuer y unif -2.700
308 a 327 fuer y unif -1.536
hipo 15 Carga muerta
carg en barr
  1 a   4 fuer y unif -2.333
 18 a  25 fuer y unif -3.111
 39 a  46 fuer y unif -3.111
 60 a  67 fuer y unif -3.111
 81 a  88 fuer y unif -3.111
102 a 109 fuer y unif -3.111
123 a 130 fuer y unif -3.111
144 a 151 fuer y unif -3.111
165 a 172 fuer y unif -3.111
186 a 193 fuer y unif -3.111
207 a 210 fuer y unif -3.111
211 a 214 fuer y unif -1.555
hipo 16 tren-B
carg en barr
248 a 287 fuer y unif -8.700
calc y alma
2 2 2
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proc Modelo espacial (calculo de la secc. transversal)

HIPOTESIS 10

hipo 10 Tren-A (sobre viga transv-10)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
228	2	0.03	-0.01	0.00	0.00	0.00	0.01
228	20	-0.03	0.01	0.00	0.00	0.00	-0.03
229	20	0.07	0.00	0.00	0.00	0.00	0.05
229	25	-0.07	0.00	0.00	0.00	0.00	-0.06
230	25	0.11	-0.01	0.00	0.00	0.00	0.10
230	43	-0.11	0.01	0.00	0.00	0.00	-0.12
231	43	0.13	-0.03	0.00	0.00	0.00	0.18
231	48	-0.13	0.03	0.00	0.00	0.00	-0.26
232	48	0.08	-0.08	0.00	0.00	0.00	0.45
232	66	-0.08	0.08	0.00	0.00	0.00	-0.68
233	66	-0.02	-0.14	0.00	0.00	0.00	1.07
233	71	0.02	0.14	0.00	0.00	0.00	-1.48
234	71	-0.26	0.04	0.00	0.00	0.00	2.74
234	89	0.26	-0.04	0.00	0.00	0.00	-2.63
235	89	-0.22	2.47	0.00	0.00	0.00	5.79
235	94	0.22	-2.47	0.00	0.00	0.00	1.63
236	94	-0.33	5.62	0.00	0.00	0.00	0.48
236	112	0.33	-3.15	0.00	0.00	0.00	12.68
237	112	-0.33	-0.68	0.00	0.00	0.00	-12.68
237	117	0.33	5.62	0.00	0.00	0.00	-0.48
238	117	-0.22	-2.47	0.00	0.00	0.00	-1.63
238	135	0.22	2.47	0.00	0.00	0.00	-5.79
239	135	-0.25	-0.04	0.00	0.00	0.00	2.63
239	140	0.25	0.04	0.00	0.00	0.00	-2.74
240	140	-0.01	0.14	0.00	0.00	0.00	1.48
240	158	0.01	-0.14	0.00	0.00	0.00	-1.07
241	158	0.09	0.08	0.00	0.00	0.00	0.68
241	163	-0.09	-0.08	0.00	0.00	0.00	-0.45
242	163	0.14	0.02	0.00	0.00	0.00	0.26
242	181	-0.14	-0.02	0.00	0.00	0.00	-0.18
243	181	0.13	0.01	0.00	0.00	0.00	0.12
243	186	-0.13	-0.01	0.00	0.00	0.00	-0.10
244	186	0.11	0.00	0.00	0.00	0.00	0.06
244	204	-0.11	0.00	0.00	0.00	0.00	-0.05
245	204	0.07	0.00	0.00	0.00	0.00	0.03
245	209	-0.07	0.00	0.00	0.00	0.00	-0.02
246	209	0.04	0.00	0.00	0.00	0.00	0.01
246	227	-0.04	0.00	0.00	0.00	0.00	-0.01
247	227	0.02	0.00	0.00	0.00	0.00	0.01
247	232	-0.02	0.00	0.00	0.00	0.00	0.00
248	1	0.05	-0.01	-0.04	0.01	0.06	0.02
248	19	-0.05	0.01	0.04	-0.01	0.05	-0.05
249	19	0.15	0.00	-0.04	0.01	0.05	0.08
249	24	-0.15	0.00	0.04	-0.01	0.06	-0.09
250	24	0.22	-0.01	-0.05	0.02	0.07	0.16
250	42	-0.22	0.01	0.05	-0.02	0.08	-0.19
251	42	0.30	-0.02	-0.02	0.04	0.03	0.32
251	47	-0.30	0.02	0.02	-0.04	0.03	-0.37
252	47	0.18	-0.13	-0.06	0.12	0.09	0.71
252	65	-0.18	0.13	0.06	-0.12	0.10	-1.08
253	65	0.11	-0.12	0.08	0.27	-0.11	1.78
253	70	-0.11	0.12	-0.08	-0.27	-0.12	-2.15
254	70	-0.57	0.05	-0.09	0.89	0.18	4.19
254	88	0.57	-0.05	0.09	-0.89	0.10	-4.06
255	88	-0.38	3.47	-0.12	1.58	0.16	8.81
255	93	0.38	-3.47	0.12	-1.58	0.19	1.60
256	93	-0.76	16.64	0.13	0.88	-0.20	6.46
256	111	0.76	2.64	-0.13	-0.88	-0.18	14.53
257	111	-0.76	21.92	-0.13	-0.88	0.18	-14.53
257	116	0.76	16.64	0.13	0.88	0.20	-6.46
258	116	-0.37	-3.47	0.12	-1.58	-0.19	-1.61
258	134	0.37	3.47	-0.12	1.58	-0.16	-8.81
259	134	-0.56	-0.05	0.09	-0.90	-0.10	4.06
259	139	0.56	0.05	-0.09	0.90	-0.17	-4.19
260	139	0.12	0.12	-0.08	-0.27	0.13	2.15
260	157	-0.12	-0.12	0.08	0.27	0.11	-1.78
261	157	0.20	0.13	0.06	-0.12	-0.09	1.08
261	162	-0.20	-0.13	-0.06	0.12	-0.09	-0.71
262	162	0.33	0.02	0.02	-0.04	-0.03	0.37
262	180	-0.33	-0.02	-0.02	0.04	-0.03	-0.32
263	180	0.25	0.01	0.04	-0.02	-0.07	0.19
263	185	-0.25	-0.01	-0.04	0.02	-0.06	-0.16
264	185	0.21	0.00	0.03	-0.01	-0.04	0.08
264	203	-0.21	0.00	-0.03	0.01	-0.04	-0.08
265	203	0.13	0.00	0.03	-0.01	-0.04	0.05
265	208	-0.13	0.00	-0.03	0.01	-0.04	-0.04
266	208	0.08	0.00	0.02	0.00	-0.03	0.02
266	226	-0.08	0.00	-0.02	0.00	-0.03	-0.02
267	226	0.03	0.00	0.02	0.00	-0.02	0.01
267	231	-0.03	0.00	-0.02	0.00	-0.02	0.00
268	3	0.03	-0.01	-0.07	0.02	0.11	0.02
268	21	-0.03	0.01	0.07	-0.02	0.10	-0.04
269	21	0.14	0.01	-0.07	0.02	0.10	0.08
269	26	-0.14	-0.01	0.07	-0.02	0.12	-0.05
270	26	0.18	-0.01	-0.11	0.06	0.16	0.14
270	44	-0.18	0.01	0.11	-0.06	0.17	-0.17
271	44	0.41	0.06	-0.07	0.09	0.09	0.35
271	49	-0.41	-0.06	0.07	-0.09	0.14	-0.17
272	49	0.20	-0.13	-0.19	0.28	0.29	0.55
272	67	-0.20	0.13	0.19	-0.28	0.27	-0.93
273	67	0.62	0.18	0.06	0.58	-0.13	1.71
273	72	-0.62	-0.18	-0.06	-0.58	-0.04	-1.17
274	72	-0.76	-0.14	-0.30	1.83	0.60	2.81
274	90	0.76	0.14	0.30	-1.83	0.30	-3.24
275	90	-0.07	2.11	-0.31	3.36	0.40	6.13
275	95	0.07	-2.11	0.31	-3.36	0.53	0.21
276	95	-1.14	14.94	0.24	2.17	-0.34	6.71
276	113	1.14	3.71	-0.24	-2.17	-0.38	10.14

277	113	-1.14	22.35	-0.24	-2.16	0.38	-10.13
277	118	1.14	14.95	0.24	2.16	0.34	-6.71
278	118	-0.07	-2.11	0.31	-3.36	-0.53	-0.21
278	136	0.07	2.11	-0.31	3.36	-0.40	-6.13
279	136	-0.76	0.14	0.30	-1.83	-0.30	3.24
279	141	0.76	-0.14	-0.30	1.83	-0.60	-2.81
280	141	0.62	-0.18	-0.06	-0.58	0.05	1.17
280	159	-0.62	0.18	0.06	0.58	0.14	-1.71
281	159	0.21	0.13	0.18	-0.28	-0.27	0.93
281	164	-0.21	-0.13	-0.18	0.28	-0.28	-0.55
282	164	0.43	-0.06	0.07	-0.09	-0.13	0.17
282	182	-0.43	0.06	-0.07	0.09	-0.08	-0.35
283	182	0.20	0.01	0.10	-0.06	-0.16	0.17
283	187	-0.20	-0.01	-0.10	0.06	-0.14	-0.14
284	187	0.17	-0.01	0.06	-0.02	-0.10	0.05
284	205	-0.17	0.01	-0.06	0.02	-0.08	-0.08
285	205	0.08	0.00	0.05	-0.01	-0.08	0.04
285	210	-0.08	0.00	-0.05	0.01	-0.07	-0.03
286	210	0.05	0.00	0.04	-0.01	-0.06	0.01
286	228	-0.05	0.00	-0.04	0.01	-0.05	-0.02
287	228	0.01	0.00	0.03	0.00	-0.04	0.01
287	233	-0.01	0.00	-0.03	0.00	-0.05	0.00
288	4	-0.02	-0.01	-0.09	0.02	0.14	0.01
288	22	0.02	0.01	0.09	-0.02	0.12	-0.03
289	22	0.08	0.03	-0.10	0.04	0.12	0.08
289	27	-0.08	-0.03	0.10	-0.04	0.18	0.01
290	27	0.02	0.00	-0.16	0.09	0.24	0.10
290	45	-0.02	0.00	0.16	-0.09	0.24	-0.10
291	45	0.44	0.17	-0.17	0.15	0.16	0.38
291	50	-0.44	-0.17	0.17	-0.15	0.36	0.12
292	50	-0.02	-0.07	-0.37	0.41	0.61	0.36
292	68	0.02	0.07	0.37	-0.41	0.49	-0.56
293	68	1.26	0.57	-0.17	0.85	-0.01	1.57
293	73	-1.26	-0.57	0.17	-0.85	0.52	0.15
294	73	-0.98	-0.24	-0.69	2.28	1.46	1.22
294	91	0.98	0.24	0.69	-2.28	0.62	-1.95
295	91	0.71	0.90	-0.60	4.24	0.70	2.82
295	96	-0.71	-0.90	0.60	-4.24	1.11	-0.12
296	96	-1.55	4.99	0.22	2.93	-0.18	1.80
296	114	1.55	-1.89	-0.22	-2.93	-0.48	8.52
297	114	-1.55	1.21	-0.22	-2.93	0.48	-8.52
297	119	1.55	4.99	0.22	2.93	0.18	-1.80
298	119	0.72	-0.90	0.60	-4.24	-1.11	0.12
298	137	-0.72	0.90	-0.60	4.24	-0.69	-2.82
299	137	-0.98	0.24	0.69	-2.28	-0.62	1.95
299	142	0.98	-0.24	-0.69	2.28	-1.46	-1.22
300	142	1.26	-0.57	0.17	-0.85	-0.52	-0.15
300	160	-1.26	0.57	-0.17	0.85	0.01	-1.57
301	160	-0.02	0.07	0.36	-0.41	-0.48	0.55
301	165	0.02	-0.07	-0.36	0.41	-0.60	-0.36
302	165	0.44	-0.17	0.17	-0.15	-0.35	-0.12
302	183	-0.44	0.17	-0.17	0.15	-0.15	-0.38
303	183	0.01	0.00	0.15	-0.09	-0.22	0.10
303	188	-0.01	0.00	-0.15	0.09	-0.22	-0.10
304	188	0.09	-0.03	0.09	-0.04	-0.16	-0.01
304	206	-0.09	0.03	-0.09	0.04	-0.10	-0.08
305	206	-0.01	0.00	0.06	-0.02	-0.10	0.02
305	211	0.01	0.00	-0.06	0.02	-0.09	-0.02
306	211	0.01	-0.01	0.04	-0.01	-0.07	0.00
306	229	-0.01	0.01	-0.04	0.01	-0.06	-0.02
307	229	-0.01	0.00	0.03	0.00	-0.05	0.01
307	234	0.01	0.00	-0.03	0.00	-0.05	0.00
308	5	-0.05	-0.03	-0.16	0.10	0.29	-0.02
308	23	0.05	0.03	0.16	-0.10	0.20	-0.09
309	23	-0.40	0.00	-0.23	0.34	0.21	-0.06
309	28	0.40	0.00	0.23	-0.34	0.47	0.06
310	28	-0.38	-0.16	-0.34	0.53	0.61	-0.08
310	46	0.38	0.16	0.34	-0.53	0.42	-0.39
311	46	-1.14	-0.01	-0.66	1.57	0.40	-0.26
311	51	1.14	0.01	0.66	-1.57	1.57	0.24
312	51	0.06	-0.61	-1.10	2.12	2.18	-0.29
312	69	-0.06	0.61	1.10	-2.12	1.13	-1.53
313	69	-1.47	-0.40	-1.49	6.32	0.46	-1.35
313	74	1.47	0.40	1.49	-6.32	4.02	0.14
314	74	3.85	-2.36	-2.72	7.30	6.25	-1.58
314	92	-3.85	2.36	2.72	-7.30	1.90	-5.49
315	92	1.24	-3.15	-2.11	12.34	1.83	-6.19
315	97	-1.24	3.15	2.11	-12.34	4.50	-3.27
316	97	-0.84	-0.39	-0.25	11.48	1.45	-0.83
316	115	0.84	0.39	0.25	-11.48	-0.69	-0.35
317	115	-0.85	0.39	0.25	-11.48	0.69	0.34
317	120	0.85	-0.39	-0.25	11.48	-1.45	0.83
318	120	1.24	3.15	2.11	-12.34	-4.49	3.27
318	138	-1.24	-3.15	-2.11	12.34	-1.83	6.19
319	138	3.84	2.36	2.71	-7.30	-1.90	5.49
319	143	-3.84	-2.36	-2.71	7.30	-6.25	1.58
320	143	-1.48	0.40	1.49	-6.32	-4.02	-0.15
320	161	1.48	-0.40	-1.49	6.32	-0.45	1.35
321	161	0.05	0.61	1.10	-2.13	-1.12	1.53
321	166	-0.05	-0.61	-1.10	2.13	-2.17	0.29
322	166	-1.17	0.01	0.65	-1.57	-1.56	-0.24
322	184	1.17	-0.01	-0.65	1.57	-0.39	0.26
323	184	-0.43	0.16	0.33	-0.55	-0.40	0.39
323	189	0.43	-0.16	-0.33	0.55	-0.59	0.08
324	189	-0.49	0.00	0.21	-0.34	-0.45	-0.06
324	207	0.49	0.00	-0.21	0.34	-0.18	0.05
325	207	-0.20	0.04	0.11	-0.12	-0.15	0.10
325	212	0.20	-0.04	-0.11	0.12	-0.18	0.03
326	212	-0.16	0.00	0.08	-0.07	-0.14	0.00
326	230	0.16	0.00	-0.08	0.07	-0.09	0.01
327	230	-0.03	0.01	0.05	-0.02	-0.06	0.02
327	235	0.03	-0.01	-0.05	0.02	-0.09	0.02

PESO PROPIO

$l_{rec}(l_{sse}) = 0.392$ m.

$q_p = 0.392 \cdot 2.5 = 0.980$ T/m²

$\eta^- = q l^2/12 = -0.98 \cdot \frac{3^2}{12} = -0.735$ m.T/m

$\eta^+ = q l^2/24 = 0.368$ m.T/m

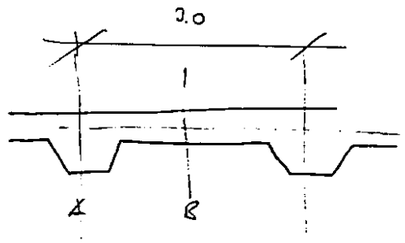
CARGA MUERTA

$q_c = \frac{12,13}{11.70} = 1,037$ T/m²

$\eta^- = \frac{q l^2}{12} = -1,037 \cdot \frac{3^2}{12} = -0,778$ m.T/m.

$\eta^+ = \frac{q l^2}{24} = 0,389$.

SOBRECARGA TRAV B



Seccion A

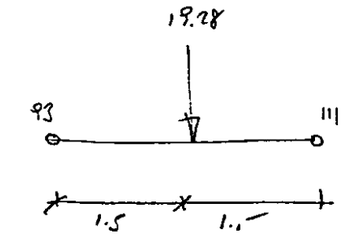
$\eta^-_{cx\,A} = -\frac{8.7}{1.2} = -7,25$ m.T/m.

$\eta^+_{cx,A} = \frac{4}{1.2} = 3.33$ m.T/m.

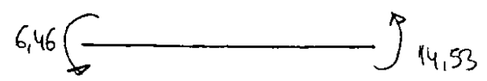
Seccion B

$\eta^+_{cx,B} = \left(8.7 \frac{9}{24} - 6\right) \frac{1}{1.2} = -2.28$

SOBRECARGA TRAV. A



• Esfuerzos en Nudos



$\eta_{rec} = \frac{14,53 - 6,46}{2} + 19.28 \cdot \frac{3}{3} = 18,50$ m.T

Seccion A

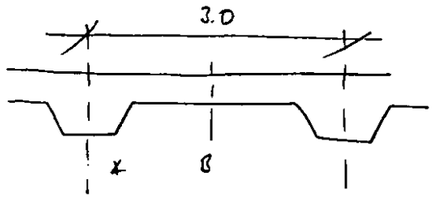
$\eta^-_{ex,A} = -\frac{6,46}{1.2} = -5,38$ m.T/m

$M^+_{ex,A} = \frac{14,53}{1.2} = 12,11$ m.T/m

Seccion B

$\eta^+_{rec\,B} = \frac{18,50}{1.2} = 15,42$ m.T/m.

COMBINACIÓN DE HIPÓTESIS



. SECCIÓN A

$M^{-}_{-x,A} = -1.5\,(0.735 + 0.778 + 7.25) = -13,14$ m.T/m.

$M^{+}_{-x,A} = 1.5\,(-0.735 - 0.778 + 12.14) = 11,590$ m.T/m.

. SECCIÓN B

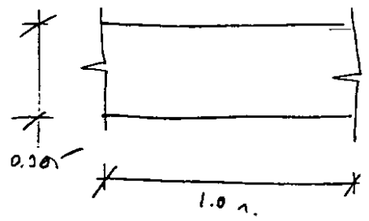
$M^{+}_{-x,B} = 1.50\,(0.368 + 0.389 + 15,42) = 24,27$ m.T

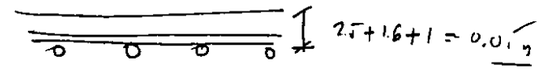
CÁLCULO DE LA ARMADURA

. Características de los materiales

- Hormigón H-600
- Acero AEH. 500. S

. Características de la sección





$d = 0.30 - 0.05 = 0.25$ m

El canto es el mínimo en la zona de influencia de la sobrecarga

- Sección B

$\mu^{+} = \frac{24,27}{1 \cdot 0.25^2 \cdot \frac{60}{1.5}} = 0,0933$ $\quad \omega^{+} = 1 - \sqrt{1-2\mu} = 0,098$

$U_s^{+} = 0,098 \cdot 0.25 \cdot 1 \cdot \frac{60}{1.5} = 100,08$ T/m. $\Rightarrow$ $A_s^{+} = 22,57$ cm²/m

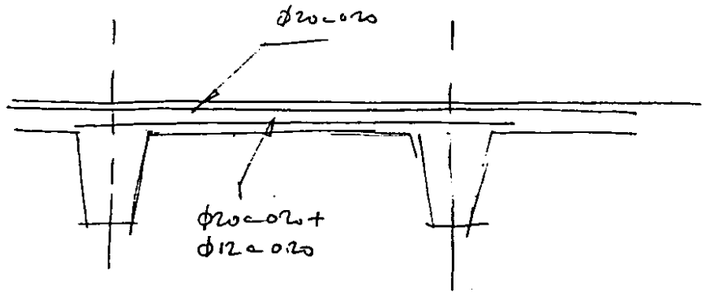
- Sección A

$\mu^{-} = \frac{13,14}{1\ 0,25^2\ \frac{60}{1.5}} = 0.050$ $\quad \omega^{-} = 1 - \sqrt{1-2\mu} = 0.0513$

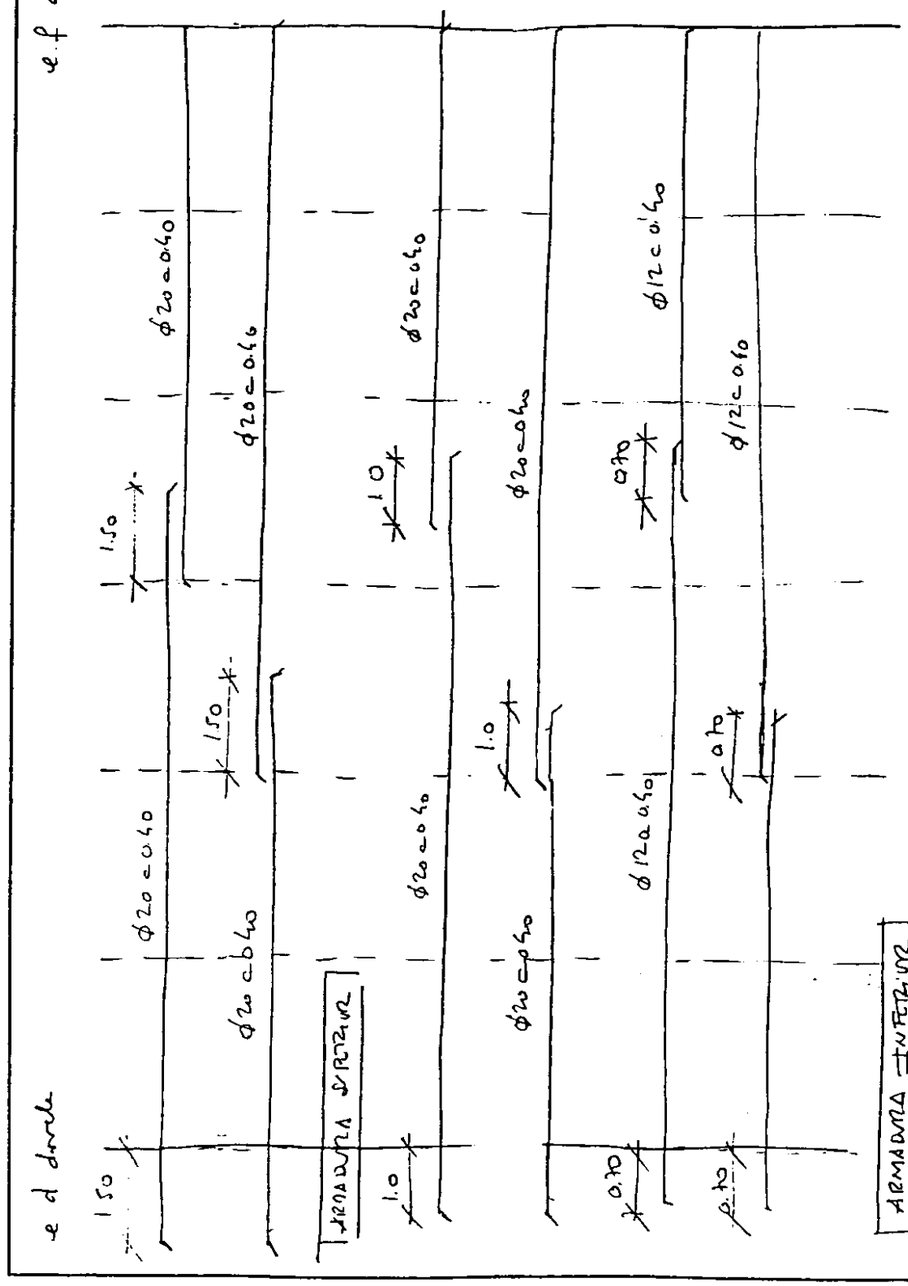
$U_s^{-} = 0.0513 \cdot 0,25 \cdot \frac{60}{1.5} = 52,34$ T/m $\rightarrow$ $A_s^{-} = 11,81$ cm²/m.

$$\mu^t = \frac{15.9}{1.0.25^2 \frac{6000}{1.5}} = 0.0606 \qquad \omega^t = 1 - \sqrt{1-2\mu} = 0.0626$$

$$U_J^t = 0.0626 \cdot 0.25 \frac{6000}{1.5} = 63,83\ T/_1 \qquad A_J^t = 14.39\ cm^2/_1.$$



DESPIECE DE ARMADURAS DE LOSA

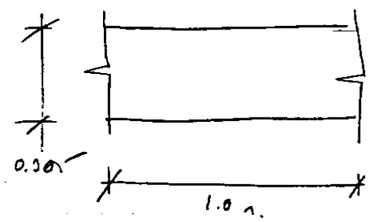


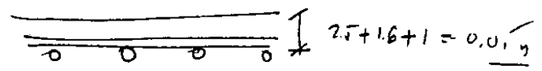
CALCULO DE LA ARMADURA

. Características de los materiales

- Hormigón H-600
- Acero AEH. 400. S

. Características de la sección





$d = 0.305 - 0.05 = 0.255\,m$

El cant es el mínimo en la zona de influencia de la sobrecarga

- Sección B

$$\mu^+ = \frac{23{,}64}{1 \cdot 0.255^2 \cdot \frac{600}{1.5}} = 0.0906 \qquad \omega^+ = 1 - \sqrt{1-2\mu} = 0.095$$

$$U_s^+ = 0.095 \cdot 0.255 \cdot 1 \cdot \frac{600}{1.5} = 96.90\ T/m \Rightarrow A_s^+ = 21{,}85\ cm^2/m$$

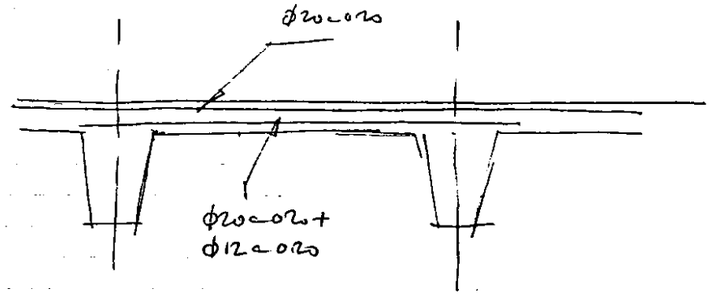
- Sección A

$$\mu^- = \frac{13{,}14}{1 \cdot 0{,}255^2 \cdot \frac{600}{1.5}} = 0.050 \qquad \omega^- = 1 - \sqrt{1-2\mu} = 0.0513$$

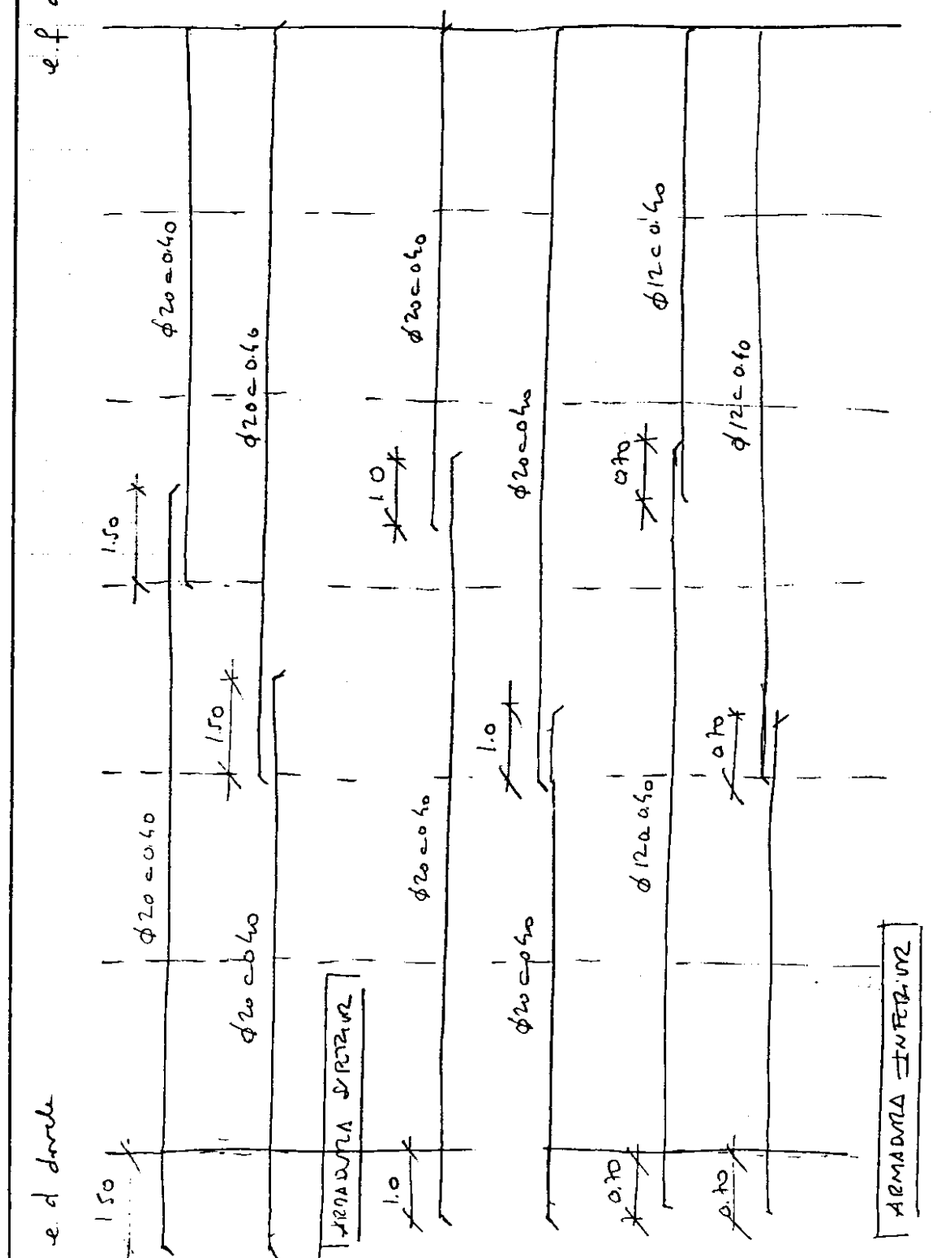
$$U_s^- = 0.0513 \cdot 0{,}255 \cdot \frac{600}{1.5} = 52{,}34\ T/m \rightarrow A_s^- = 11{,}81\ cm^2/m$$

$$\mu^{+} = \frac{15.610}{1.0.25^2 \frac{f_{cvd}}{1.5}} = 0.0606 \qquad \omega^{+} = 1 - \sqrt{1-2\mu} = 0.0626$$

$$U_s^{+} = 0.0626 \cdot 0.25 \frac{f_{cvd}}{1.5} = 63,83\ T/_{m} \qquad A_s^{+} = 14.39\ cm^2/_{m}.$$



DESPIECE DE ARMADURA DE LOSA



Descarrilamiento de vehiculos ferroviarios

DESCARRILAMIENTO DE VEHÍCULOS FERROVIARIOS

OBJETO

Conforme a las Bases de Cálculo es necesario el estudio de diferentes hipótesis de descarrilamiento según la Normativa de la UIC-776.1

METODOLOGÍA

Se introducirán las hipótesis en el modelo tridimensional por tratarse de cajas mixtas rígidas o de bajo de talla o bien cajas portátiles simples

Se comprobará la posibilidad de descarrilamiento de una sola de las vías estando la otra descargada

CONCLUSIONES

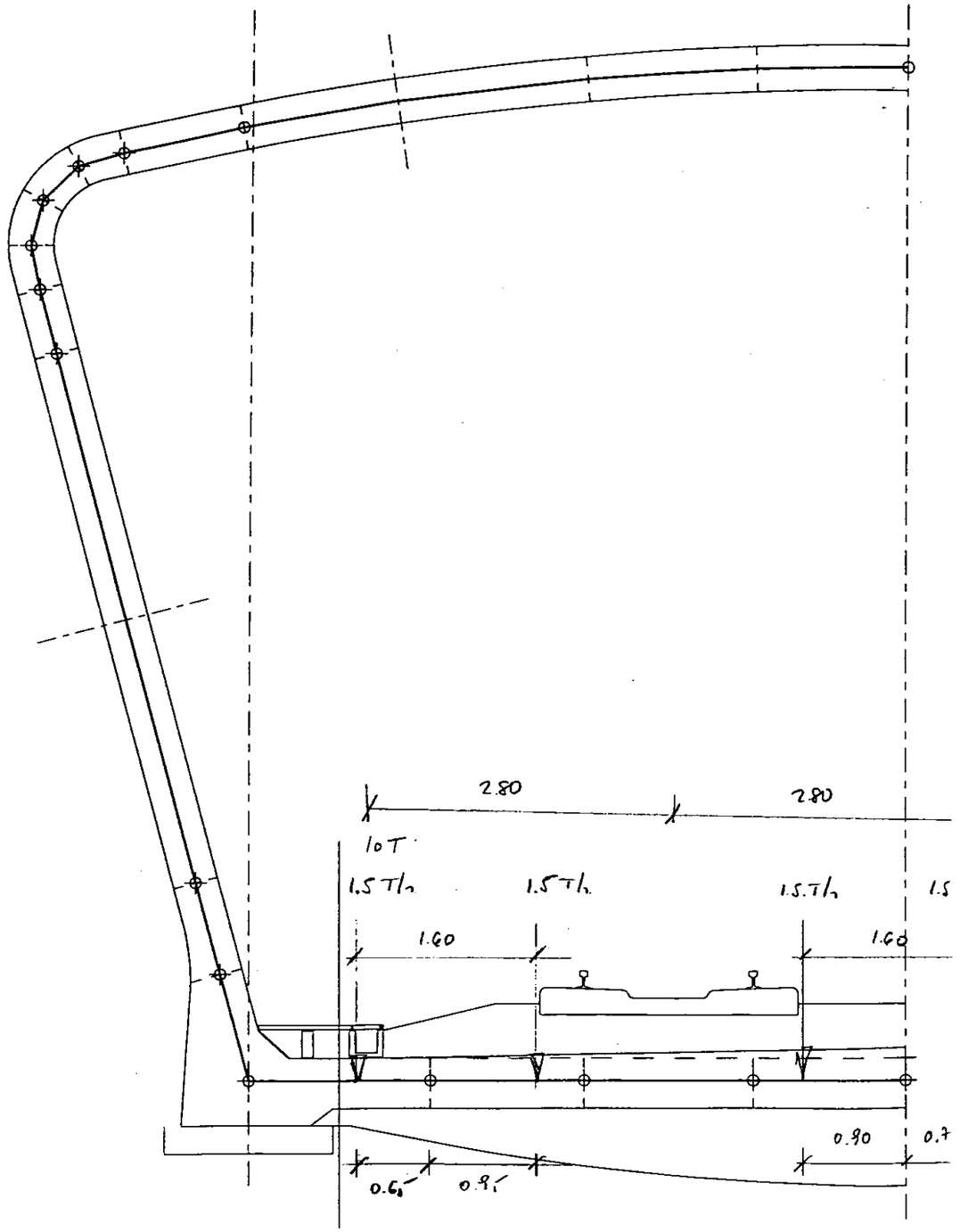
Si bien la posición de las cajas en el descarrilamiento son diferentes respecto a la situación normal el nivel de cajas introducido sin embargo conforme de impacto ni conforme de rozamiento es inferior al normal.

Se han comprobado el estado de tensiones y comunes a la vía de ancho.

- Desde la configuración del bastidor la estabilidad global del vehículo no se ve alterada ante un posible descarrilamiento de las ruedas.

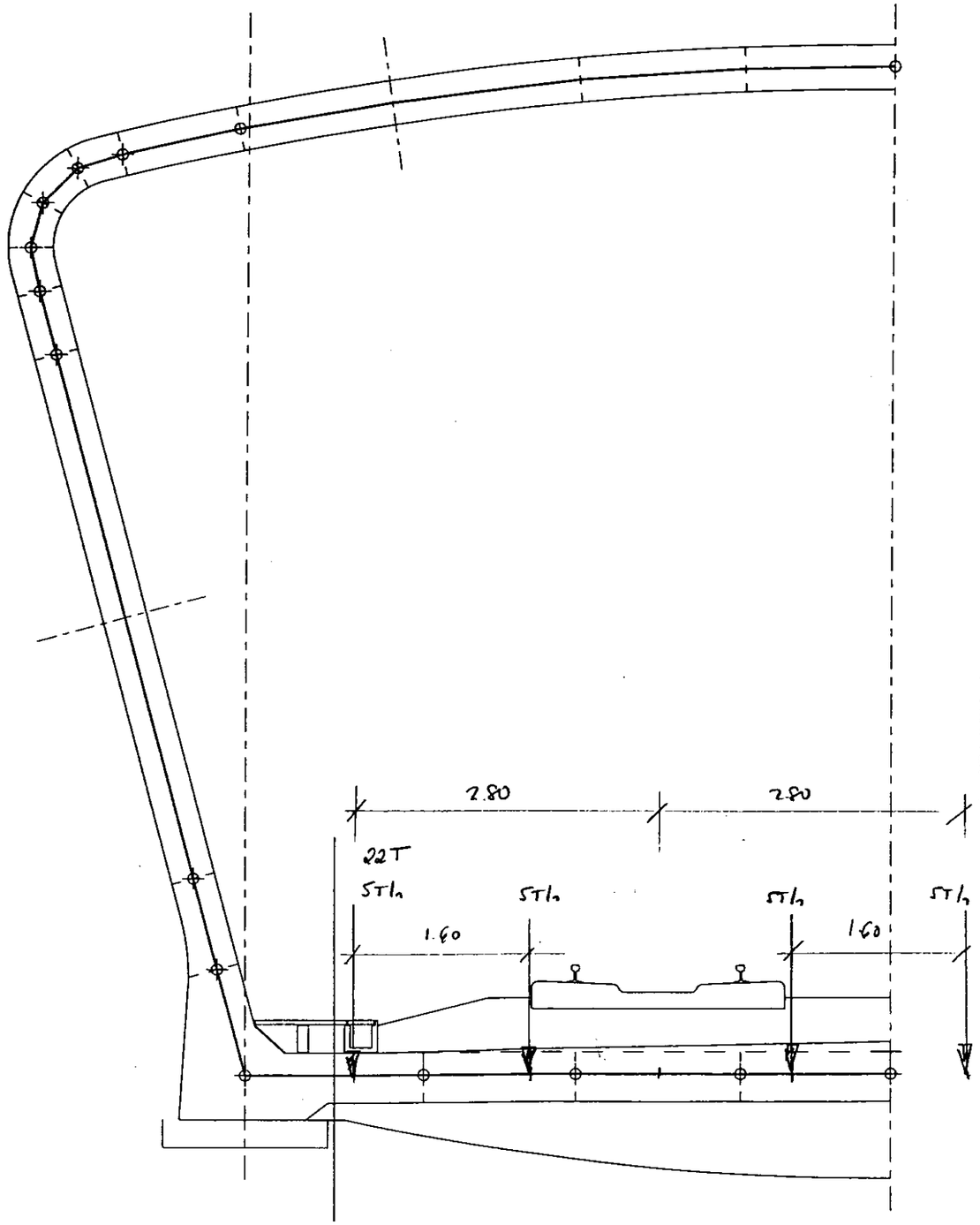
```
estr Seccion transversal (intermedia con costilla)
nume de nudo   34
nume de barr   34
nume de hipo    4
nume de apoy    2
tipo port plan
list todo
coor de nudo
       1      -7.8207       7.5155
       2      -7.7400       7.1205
       3      -7.7191       7.9197
       4      -7.5493       6.4020
       5      -7.4052       8.2309
       6      -7.0008       8.3509
       7      -6.3615       1.9270
       8      -6.1049       0.9604
       9      -5.9339       8.5831
      10      -5.8500       0.0000 desp x y
      11      -4.5537       8.8192
      12      -4.2313       0.0000
      13      -3.0036       0.0000
      14      -2.8511       9.0225
      15      -1.4964       0.0000
      16      -1.3470       9.1228
      17       0.0000       0.0000
      18       0.0000       9.1571
      19       1.3470       9.1228
      20       1.4964       0.0000
      21       2.8511       9.0225
      22       3.0036       0.0000
      23       4.2313       0.0000
      24       4.5537       8.8192
      25       5.8500       0.0000 desp y
      26       5.9339       8.5831
      27       6.1049       0.9604
      28       6.3615       1.9270
      29       7.0008       8.3509
      30       7.4052       8.2309
      31       7.5493       6.4020
      32       7.7191       7.9197
      33       7.7400       7.1205
      34       7.8207       7.5155
inci de barr
       1    17   20
       2    20   22
       3    22   23
       4    23   25
       5    25   27
       6    27   28
       7    28   31
       8    31   33
       9    33   34
      10    34   32
      11    32   30
      12    30   29
      13    29   26
      14    26   24
      15    24   21
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    16    21    19
    17    19    18
    18    18    16
    19    16    14
    20    14    11
    21    11     9
    22     9     6
    23     6     5
    24     5     3
    25     3     1
    26     1     2
    27     2     4
    28     4     7
    29     7     8
    30     8    10
    31    10    12
    32    12    13
    33    13    15
    34    15    17
 mate de barr
     1 a   34     1
prop de barr pris
         1 1.4624 0.5592 0.1185
         2 1.3276 0.5071 0.0828
         3 1.1563 0.4192 0.0421
         4 0.9590 0.2870 0.0131
         5 1.9200 1.6271 0.0655
         6 1.2000 1.0169 0.0160
         7 0.8800 0.7458 0.0117
  8 a 14 1.2000 1.0169 0.0160
 15 a 20 0.0400 0.0339 0.0001
 21 a 27 1.2000 1.0169 0.0160
        28 0.8800 0.7458 0.0117
        29 1.2000 1.0169 0.0160
        30 1.9200 1.6271 0.0655
        31 0.9590 0.2870 0.0131
        32 1.1563 0.4192 0.0421
        33 1.3276 0.5071 0.0828
        34 1.4624 0.5592 0.1185
 cons de mate
     1 3677000. 1532000. 2.5
 hipo 53 descarrilo-A-1
 carg en barr
 1  fuer y conc -4.50 0.70
 34 fuer y conc -4.50 -0.90
 hipo 54 descarrilo-A-2
 carg en barr
 34 fuer y conc -10.00 -0.0001
 hipo 55 descarrilo-B-1
 carg en barr
 1  fuer y conc -15.0 0.70
 34 fuer y conc -15.0 -0.90
 hipo 56 descarrilo-B-2
 carg en barr
 34 fuer y conc -22.00 -0.0001
 calcula y almacena
 2 2 2
```



CASO A

E: 1/50



E: 1/50

CASO B.

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO ____ FECHA ____

HIPOTESIS DE DESCARGAMIENTO SOBRE GOTELLAS INTERIORES

. Caso A

. hipotesis 1 — 1 fv y cmc −4.50 0.70
34 " . . −4.50 −0.90

. hipotesis 2 — 34 fv y cmc −10. −0.001

. Caso B

. hipotesis 1 — 1 fv y cmc −15. 0.70
34 −15 −0.90

. hipotesis 2 — 34 fv y cmc −22. −0.001

```
impr
hipo 57 max fx descarrilo-A
fija 15 16
comp 3 17
inco 53 54
maxi fuer x
hipo 58 min fx descarrilo-A
fija 15 16
comp 3 17
inco 53 54
mini fuer x
hipo 59 max fy descarrilo-A
fija 15 16
comp 3 17
inco 53 54
maxi fuer y
hipo 60 min fy descarrilo-A
fija 15 16
comp 3 17
inco 53 54
mini fuer y
hipo 61 max mz descarrilo-A
fija 15 16
comp 3 17
inco 53 54
maxi mome z
hipo 62 min mz descarrilo-A
fija 15 16
comp 3 17
inco 53 54
mini mome z
hipo 63 max fx descarrilo-B
fija 15 16
comp 3 17
inco 55 56
maxi fuer x
hipo 64 min fx descarrilo-B
fija 15 16
comp 3 17
inco 55 56
mini fuer x
hipo 65 max fy descarrilo-B
fija 15 16
comp 3 17
inco 55 56
maxi fuer y
```



```
hipo 66 min fy descarrilo-B
fija 15 16
comp 3 17
inco 55 56
mini fuer y
hipo 67 max mz descarrilo-B
fija 15 16
comp 3 17
inco 55 56
maxi mome z
hipo 68 min mz descarrilo-B
fija 15 16
comp 3 17
inco 55 56
mini mome z
fin
```

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 61

max mz descarrilo-A

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	326.585	-40.636	-49.341
31	12	-374.956	60.373	-43.363
32	12	374.956	-60.373	43.363
32	13	-374.364	48.506	-90.432
33	13	374.364	-48.505	90.432
33	15	-371.708	28.247	-125.832
34	15	371.708	-28.247	125.832
34	17	-365.031	0.000	-138.305
1	17	365.031	0.000	138.305
1	20	-371.708	-28.247	-125.832
2	20	371.708	28.247	125.832
2	22	-374.364	-48.506	-90.432
3	22	374.364	48.506	90.432
3	23	-374.956	-60.373	-43.363
4	23	374.956	60.373	43.363
4	25	-326.585	-40.635	49.341

TENSIONES

BARRA	NUDO	SIG SUP	SIG INF
31	10	65.57	-18.92
31	12	-0.48	108.43
32	12	-0.48	108.43
32	13	-11.10	121.40
33	13	-11.10	121.40
33	15	-13.22	116.15
34	15	-13.22	116.15
34	17	-13.76	110.31
1	17	-13.76	110.31
1	20	-13.22	116.15
2	20	-13.22	116.15
2	22	-11.10	121.40
3	22	-11.10	121.40
3	23	-0.48	108.43
4	23	-0.48	108.43
4	25	65.57	-18.92

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 62

min mz descarrilo-A

ESFUERZOS EN BARRAS

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
31	10	371.806	-57.921	-65.532
31	12	-329.357	44.928	-31.577
32	12	329.357	-44.928	31.577
32	13	-328.836	35.350	-63.461
33	13	328.836	-35.350	63.461
33	15	-326.499	18.664	-84.418
34	15	326.499	-18.664	84.418
34	17	-320.623	5.000	-87.020
1	17	320.623	-5.000	87.020
1	20	-326.499	-18.664	-84.419
2	20	326.499	18.664	84.419
2	22	-328.836	-35.350	-63.461
3	22	328.836	35.351	63.461
3	23	-329.357	-44.928	-31.577
4	23	329.357	44.928	31.577
4	25	-371.806	-57.921	65.532

TENSIONES

BARRA	NUDO	SIG SUP	SIG INF
31	10	82.66	-29.55
31	12	4.95	84.25
32	12	4.95	84.25
32	13	-2.45	90.53
33	13	-2.45	90.53
33	15	-3.38	83.41
34	15	-3.38	83.41
34	17	-2.64	75.43
1	17	-2.64	75.43
1	20	-3.38	83.41
2	20	-3.38	83.41
2	22	-2.45	90.53
3	22	-2.45	90.53
3	23	4.95	84.25
4	23	4.95	84.25
4	25	82.66	-29.55

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 67

max nz descarrilo-B

ESFUERZOS EN BARRAS | TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	325.728	-30.379	-41.620	58.90	-12.37
31	12	-374.956	60.373	-43.363	-0.48	108.43
32	12	374.956	-60.373	43.363	-0.48	108.43
32	13	-374.364	48.506	-90.432	-11.10	121.40
33	13	374.364	-48.505	90.432	-11.10	121.40
33	15	-371.708	28.247	-125.832	-13.22	116.15
34	15	371.708	-28.247	125.832	-13.22	116.15
34	17	-365.031	0.000	-138.305	-13.76	110.31
1	17	365.031	0.000	138.305	-13.76	110.31
1	20	-371.708	-28.247	-125.832	-13.22	116.15
12	20	371.708	28.247	125.832	-13.22	116.15
2	22	-374.364	-48.506	-90.432	-11.10	121.40
3	22	374.364	48.506	90.432	-11.10	121.40
3	23	-374.956	-60.373	-43.363	-0.48	108.43
4	23	374.956	60.373	43.363	-0.48	108.43
4	25	-325.728	-30.892	41.627	58.91	-12.37

proc Seccion transversal (sin pretensado de almas)

HIPOTESIS 68

min nz descarrilo-B

ESFUERZOS EN BARRAS | TENSIONES

BARRA	NUDO	AXIL	CORT. Y	MOM. Z	SIG SUP	SIG INF
31	10	371.806	-57.921	-65.532	82.66	-29.55
31	12	-328.501	34.671	-22.696	12.19	69.19
32	12	328.501	-34.671	22.696	12.19	69.19
32	13	-327.979	25.093	-41.988	7.29	68.81
33	13	327.979	-25.093	41.987	7.29	68.81
33	15	-325.642	8.407	-47.486	8.21	57.02
34	15	325.642	-8.407	47.486	8.21	57.02
34	17	-319.766	-0.257	-48.238	7.94	51.21
1	17	319.766	0.257	48.238	7.94	51.21
1	20	-325.642	-8.921	-49.716	7.50	58.61
2	20	325.642	8.921	49.716	7.50	58.61
2	22	-327.979	-25.607	-43.443	6.63	70.28
3	22	327.979	25.608	43.443	6.63	70.28
3	23	-328.501	-35.185	-23.520	11.51	70.58
4	23	328.501	35.185	23.520	11.51	70.58
4	25	-371.806	-57.921	65.532	82.66	-29.55

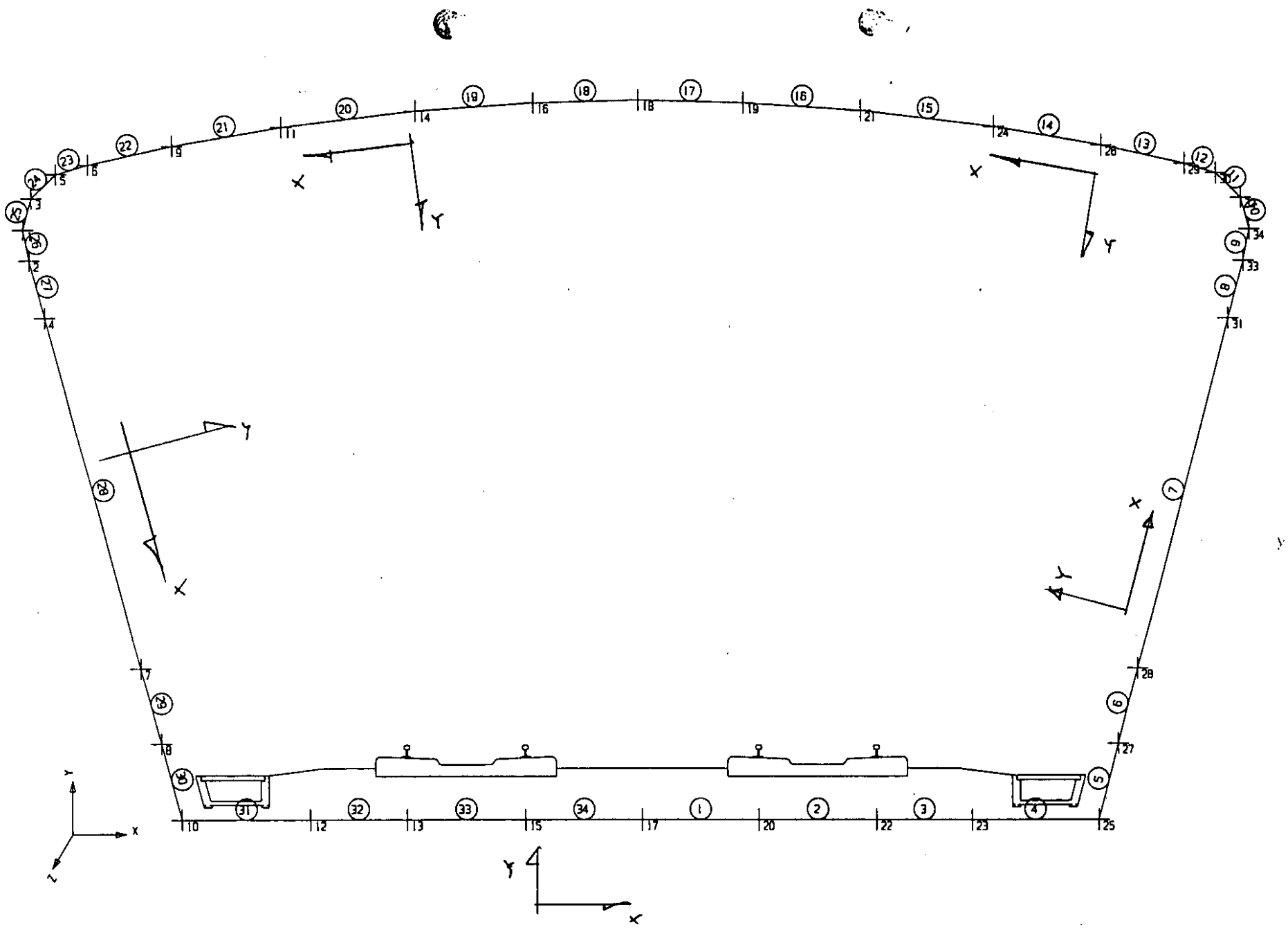
proc Seccion transversal (sin pretensado de almas)

ARMADURA

SECC	VOL T	ZONA	CORTANTE TRANS	CORTANTE LONG	TORSION TRANS	TORSION LONG	VUE 1	VUE 2	VUE 3	VUE 4	RELACION		TOTAL TRANS
10	0.00	AB	10.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	10.38
	0.00	AB	18.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	18.54
	0.00	AB	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	5.22
	0.00	AB	18.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	18.54
12	0.00	AB	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	4.76
	0.00	AB	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	9.65
	0.00	AB	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.29
	0.00	AB	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	9.65
13	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.77
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.77
15	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
17	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	AB	9.52C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
20	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
	0.00	AB	9.66C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
22	0.00	AB	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.77
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
	0.00	AB	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.77
	0.00	AB	10.04C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
23	0.00	AB	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	9.65
	0.00	AB	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	4.76
	0.00	AB	9.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	9.65
	0.00	AB	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.46

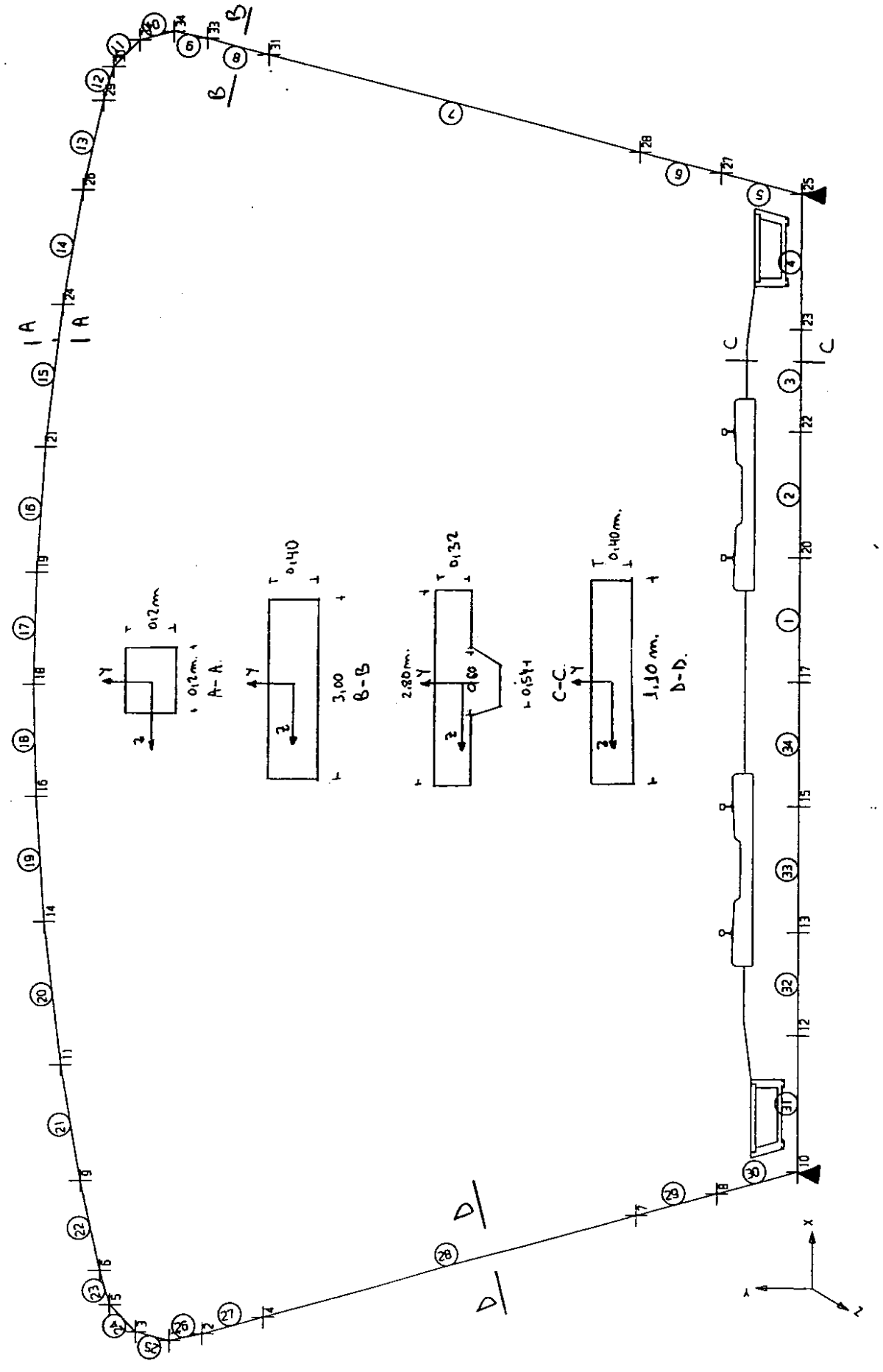
MODULO INTERMEDIO (bajo aligeramientos)

Esquema del modelo

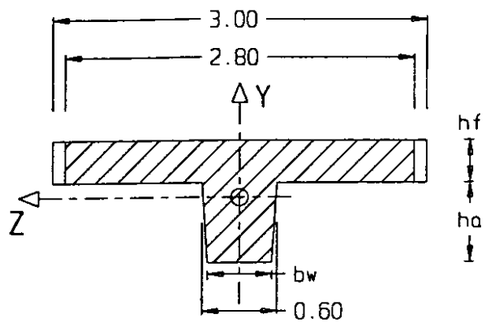


Caracteristicas de barras

MODULO INTERMEDIO (bajo. aligeramientos).



CARACTERISTICAS DE BARRAS

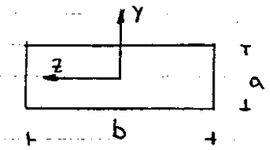


$$\begin{cases} AX = \text{Calculado con CADKEY} \\ AY = b_w (h_f + h_a) \\ AZ = 2{,}80 \times h_f \\ IX = \frac{1}{3}\left[h_f^3 \times 2{,}80 + b_w^3 \times h_a\right] \\ IY = \text{calculado con CADKEY} \\ IZ = \text{" " "} \end{cases}$$

Secc.	Ax	AY	AZ	IX	IY	IZ
b_1	1,4624*	0,5592*	1,0562	0,0811	0,7004	0,1185*
b_2	1,3276*	0,5071*	0,9722.	0,0681	0,6444	0,0828*
b_3	1,1563*	0,4192*	0,8954	0,0544.	0,5921	0,0421*
b_4	0,9590*	0,2870*	0,8417	0,0379.	0,5533	0,0131*

b_1 = barras 1 y 34
b_2 = " 2 y 33
b_3 = " 3 y 32
b_4 = " 4 y 31

Barras 5 y 30



$a = 0{,}64\,m$; $b = 3{,}00$

$A_x = 1{,}92\,m^2$; $A_y = 1{,}6271\,m^2$; $I_z = 0{,}0655\,m^4$

Barras 6 y 29; 8 a 14 y 21 a 27

$a = 0{,}40\,m$; $b = 3{,}00$.

$A_x = 1{,}20\,m^2$; $A_y = 1{,}0169\,m^2$; $I_z = 0{,}0160\,m^4$

Barras 7 y 28.

$a = 0{,}40\,m$; $b = 1{,}10\,m$.

$A_x = 0{,}44\,m^2$; $A_y = 0{,}3729\,m^2$; $I_z = 0{,}0059\,m^4$

Barras 15 a 20

$a = 0{,}20\,m$; $b = 0{,}20\,m$.

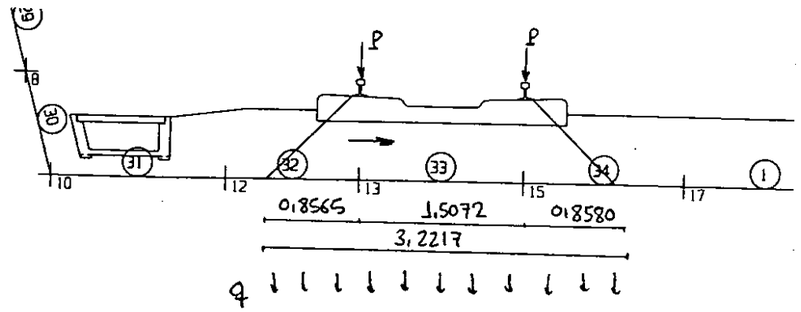
$A_x = 0{,}04\,m^2$; $A_y = 0{,}0339\,m^2$; $I_z = 0{,}0001\,m^4$

Valores de las acciones

VALORES DE LAS ACCIONES (Cont.)

S.C. TREN-A

Cargamos con cuatro cargas de 10 Tn. Una vez conocido el momento en el centro (en nudo 17) debido a estas cuatro cargas se iguala con el momento calculado en el momento espacial y se deduce cual es el verdadero valor de las cargas a considerar.



$$q = \frac{2 \times P}{3,2217} = \frac{2 \times 10,00}{3,2217} = 6,2079 \text{ Tn/ml.}$$

1	fuer	y	unif	- 6,2079	0, 6399 0.
2	"		"	"	
3	"		"	"	0. 0,8580.
32	"		"	"	0,3712 0.
33	"		"	"	
34	"		"	"	0. 0,8580

(El momento del modelo espacial ellos incluido el coeficiente de impacto).

```
estr Seccion transversal (intermedia bajo aligeramientos)
nume de nudo    34
nume de barr    34
nume de hipo     1
nume de apoy     2
tipo port plan
list todo
coor de nudo
      1     -7.8207      7.5155
      2     -7.7400      7.1205
      3     -7.7191      7.9197
      4     -7.5493      6.4020
      5     -7.4052      8.2309
      6     -7.0008      8.3509
      7     -6.3615      1.9270
      8     -6.1049      0.9604
      9     -5.9339      8.5831
     10     -5.8500      0.0000 desp x y
     11     -4.5537      8.8192
     12     -4.2313      0.0000
     13     -3.0036      0.0000
     14     -2.8511      9.0225
     15     -1.4964      0.0000
     16     -1.3470      9.1228
     17      0.0000      0.0000
     18      0.0000      9.1571
     19      1.3470      9.1228
     20      1.4964      0.0000
     21      2.8511      9.0225
     22      3.0036      0.0000
     23      4.2313      0.0000
     24      4.5537      8.8192
     25      5.8500      0.0000 desp y
     26      5.9339      8.5831
     27      6.1049      0.9604
     28      6.3615      1.9270
     29      7.0008      8.3509
     30      7.4052      8.2309
     31      7.5493      6.4020
     32      7.7191      7.9197
     33      7.7400      7.1205
     34      7.8207      7.5155
inci de barr
      1    17    20
      2    20    22
      3    22    23
      4    23    25
      5    25    27
      6    27    28
      7    28    31
      8    31    33
      9    33    34
     10    34    32
     11    32    30
     12    30    29
     13    29    26
     14    26    24
     15    24    21
     16    21    19
     17    19    18
     18    18    16
     19    16    14
     20    14    11
     21    11     9
     22     9     6
     23     6     5
     24     5     3
     25     3     1
     26     1     2
     27     2     4
     28     4     7
     29     7     8
     30     8    10
     31    10    12
     32    12    13
     33    13    15
     34    15    17
mate de barr
      1 a    34     1
prop de barr pris
          1 1.4624 0.5592 0.1185
          2 1.3276 0.5071 0.0828
          3 1.1563 0.4192 0.0421
          4 0.9590 0.2870 0.0131
          5 1.9200 1.6271 0.0655
          6 1.2000 1.0169 0.0160
          7 0.4400 0.3729 0.0059
      8 a 14 1.2000 1.0169 0.0160
     15 a 20 0.0400 0.0339 0.0001
     21 a 27 1.2000 1.0169 0.0160
         28 0.4400 0.3729 0.0059
         29 1.2000 1.0169 0.0160
         30 1.9200 1.6271 0.0655
         31 0.9590 0.2870 0.0131
         32 1.1563 0.4192 0.0421
         33 1.3276 0.5071 0.0828
         34 1.4624 0.5592 0.1185
cons de mate
          1 3000000. 1250000. 2.5
hipo Cargas unitarias de 10 Tn.
carg en barr
       1 fuer y unif -6.2079 0.6399 0.
       2 fuer y unif -6.2079
       3 fuer y unif -6.2079 0. 0.8580
      32 fuer y unif -6.2079 0.3712 0.
      33 fuer y unif -6.2079
      34 fuer y unif -6.2079 0. 0.8580
calc
problema bien definido, empieza la ejecucion
```

estr Seccion transversal (intermedia bajo aligeramientos)

hipo Cargas unitarias de 10 Tn.

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
1	17	-1.1941	-0.0026	-61.2593
1	20	1.1941	5.3197	58.9784
2	20	-1.1941	-5.3197	-58.9785
2	22	1.1941	14.6762	43.9095
3	22	-1.1941	-14.6762	-43.9096
3	23	1.1941	20.0025	21.6375
4	23	-1.1941	-20.0026	-21.6375
4	25	1.1941	20.0026	-10.7407
5	25	-0.3063	1.1541	10.7407
5	27	0.3063	-1.1541	-9.5939
6	27	-0.3064	1.1541	9.5939
6	28	0.3064	-1.1541	-8.4397
7	28	-0.3063	1.1541	8.4397
7	31	0.3063	-1.1541	-3.0962
8	31	-0.3063	1.1541	3.0963
8	33	0.3063	-1.1541	-2.2383
9	33	-0.2390	1.1699	2.2383
9	34	0.2390	-1.1699	-1.7666
10	34	0.2912	1.1580	1.7667
10	32	-0.2912	-1.1580	-1.2840
11	32	0.8478	0.8407	1.2840
11	30	-0.8478	-0.8407	-0.9124
12	30	1.1450	0.3397	0.9124
12	29	-1.1450	-0.3397	-0.7691
13	29	1.1667	0.2539	0.7691
13	26	-1.1667	-0.2539	-0.4918
14	26	1.1770	0.2013	0.4918
14	24	-1.1770	-0.2013	-0.2099
15	24	1.1856	0.1416	0.2099
15	21	-1.1856	-0.1416	0.0328
16	21	1.1914	0.0795	-0.0328
16	19	-1.1914	-0.0795	0.1526
17	19	1.1937	0.0304	-0.1526
17	18	-1.1937	-0.0304	0.1936
18	18	1.1937	-0.0304	-0.1936
18	16	-1.1937	0.0304	0.1526
19	16	1.1914	-0.0794	-0.1526
19	14	-1.1914	0.0794	0.0329
20	14	1.1856	-0.1416	-0.0329
20	11	-1.1856	0.1416	-0.2099
21	11	1.1771	-0.2014	0.2099
21	9	-1.1771	0.2014	-0.4918
22	9	1.1668	-0.2539	0.4918
22	6	-1.1668	0.2539	-0.7691
23	6	1.1452	-0.3397	0.7690
23	5	-1.1452	0.3397	-0.9123
24	5	0.8482	-0.8407	0.9123
24	3	-0.8482	0.8407	-1.2839
25	3	0.2909	-1.1581	1.2839
25	1	-0.2909	1.1581	-1.7666
26	1	-0.2390	-1.1700	1.7666
26	2	0.2390	1.1700	-2.2383
27	2	-0.3063	-1.1541	2.2382
27	4	0.3063	1.1541	-3.0961
28	4	-0.3063	-1.1541	3.0962
28	7	0.3063	1.1541	-8.4396
29	7	-0.3064	-1.1541	8.4396
29	8	0.3064	1.1541	-9.5938
30	8	-0.3063	-1.1541	9.5938
30	10	0.3063	1.1541	-10.7406
31	10	-1.1941	19.9974	10.7406
31	12	1.1941	-19.9974	21.6292
32	12	-1.1941	19.9974	-21.6292
32	13	1.1941	-14.6803	43.9030
33	13	-1.1941	14.6804	-43.9030
33	15	1.1941	-5.3238	58.9781
34	15	-1.1941	5.3239	-58.9781
34	17	1.1941	0.0025	61.2594

CARGAS APLICADAS EN LOS NUDOS LIBRES

NUDO	FUER. X	FUER. Y	MOM. Z
1	-0.0001	-0.0003	0.0000
2	0.0001	0.0000	0.0000
3	0.0001	0.0004	0.0000
4	0.0000	0.0000	0.0000
5	0.0003	-0.0001	0.0000
6	-0.0004	-0.0001	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0001	0.0000	0.0000
11	-0.0001	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0001
16	0.0000	0.0000	0.0000
17	0.0000	-0.0001	0.0001
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000
22	0.0000	0.0001	-0.0001

23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0001	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0003	-0.0001	0.0000
30	-0.0004	0.0002	0.0000
31	0.0000	0.0000	0.0000
32	0.0000	-0.0002	0.0000
33	0.0000	0.0000	0.0000
34	0.0000	0.0001	0.0000

REACCIONES EN LOS APOYOS

NUDO	FUER. X	FUER. Y	MOM. Z
1.0	0.0000	19.9974	0.0000
25	0.0000	20.0026	0.0000

DESPLAZAMIENTOS DE LOS NUDOS LIBRES

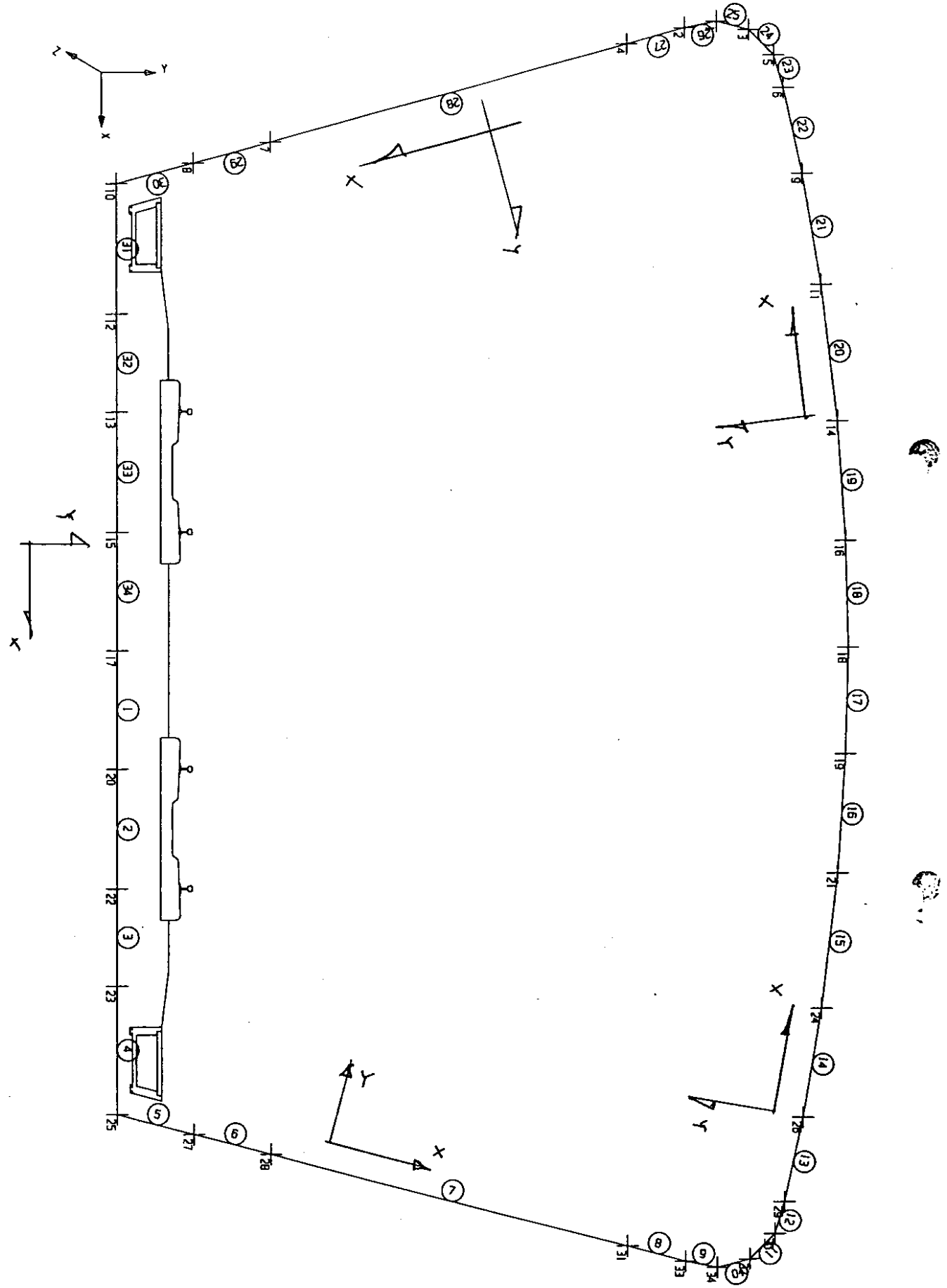
NUDO	DESP. X	DESP. Y	GIRO Z
1	0.0013161	0.0003670	0.0006822
2	0.0015828	0.0004215	0.0006654
3	0.0010372	0.0004371	0.0006954
4	0.0020475	0.0005447	0.0006241
5	0.0008188	0.0006572	0.0007055
6	0.0007336	0.0009441	0.0007129
7	0.0019969	0.0005302	-0.0008847
8	0.0010538	0.0002797	-0.0010726
9	0.0005658	0.0017131	0.0007273
11	0.0003923	0.0027250	0.0007375
12	0.0000007	-0.0019080	-0.0008997
13	0.0000011	-0.0028783	-0.0005753
14	0.0001499	0.0046119	0.0012434
15	0.0000015	-0.0035401	-0.0002561
16	0.0000284	0.0062089	0.0007774
17	0.0000020	-0.0037360	0.0000000
18	0.0000011	0.0067536	-0.0000001
19	-0.0000262	0.0062087	-0.0007775
20	0.0000024	-0.0035402	0.0002560
21	-0.0001477	0.0046116	-0.0012434
22	0.0000028	-0.0028785	0.0005753
23	0.0000032	-0.0019082	0.0008998
24	-0.0003900	0.0027248	-0.0007373
26	-0.0005635	0.0017131	-0.0007271
27	-0.0010500	0.0002798	0.0010728
28	-0.0019933	0.0005303	0.0008849
29	-0.0007312	0.0009443	-0.0007128
30	-0.0008165	0.0006575	-0.0007054
31	-0.0020448	0.0005450	-0.0006239
32	-0.0010348	0.0004374	-0.0006953
33	-0.0015802	0.0004218	-0.0006652
34	-0.0013136	0.0003674	-0.0006820

DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	GIRO Z
1.0	0.0000000	0.0000000	-0.0011240
25	0.0000039	0.0000000	0.0011242

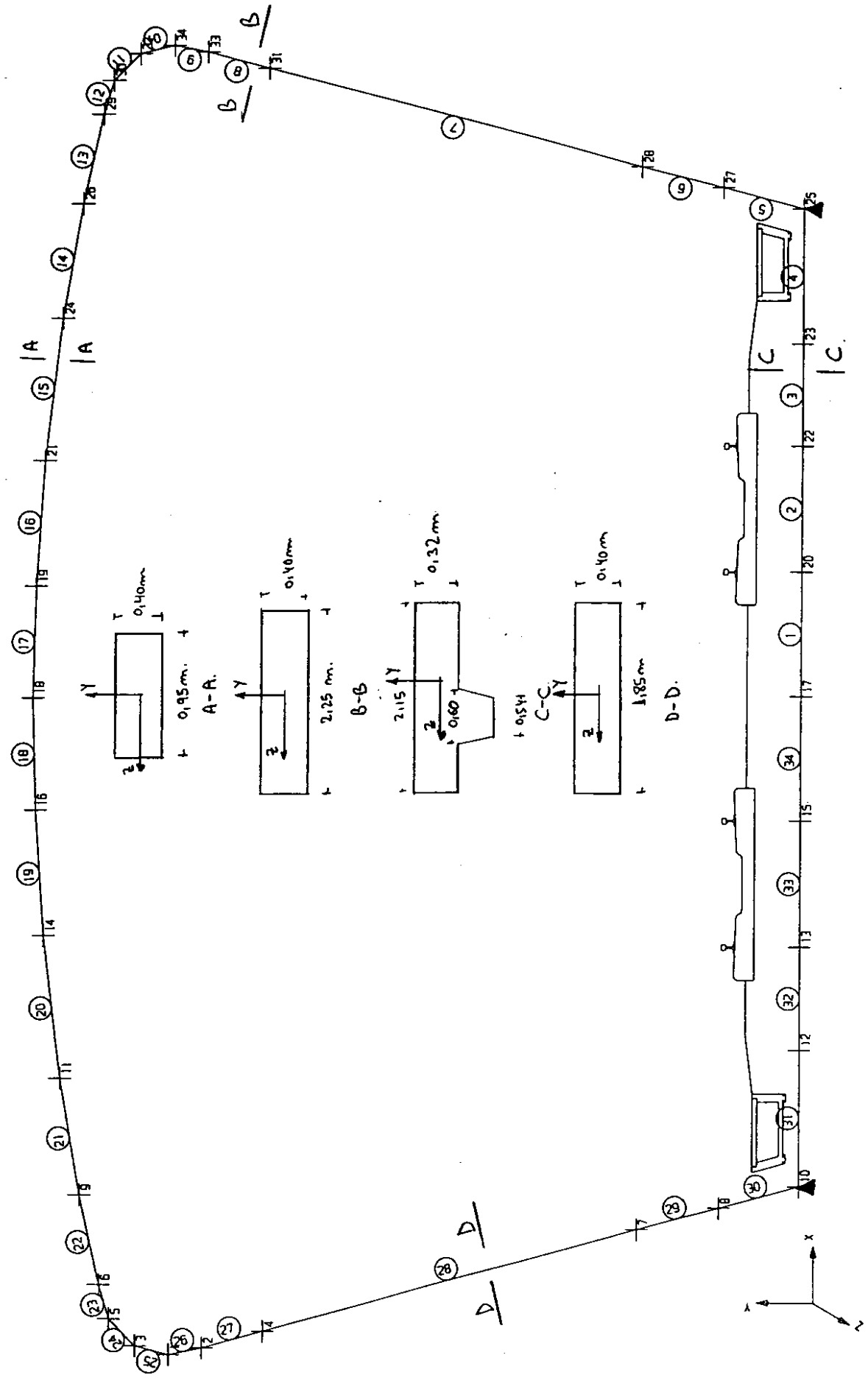
MODULO EXTREMO

Esquema del modelo



Caracteristicas de barras

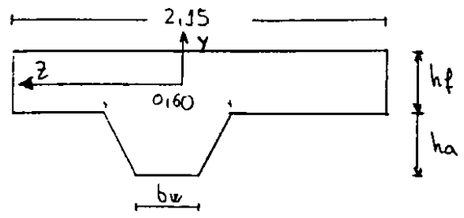
MODULO EXTREMO :



CARACTERISTICAS DE BARRAS:

BARRAS TRANSVERSALES DE LOSA INFERIOR

BARRAS DE BORDE:



A_x = Calculado con cadkey

$A_y = b_w(h_f + h_a)$

$A_z = 2{,}15 \times h_f$

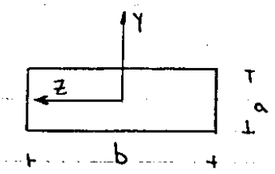
$I_x = \frac{1}{3}\left[h_f^3 \times 2{,}15 + b_w^3 \times h_a\right]$

I_y = Calculado con cadkey

I_z = " " "

SECC	A_x	A_y	A_z	I_x	I_y	I_z
b_1	1,2173.	0,5592	0,8110	0,0695	0,3513	0,1088
b_2	1,1019.	0,5071	0,7465	0,0590	0,3222	0,0760
b_3	0,9484.	0,4192	0,6876	0,0473	0,2919	0,0384
b_4	0,7636.	0,2870	0,6463	0,0320.	0,2628	0,0114

Barras 5 y 30



$a = 0{,}64$ m ; $b = 2{,}25$ m.

$A_x = 1{,}44\ m^2$; $A_y = 1{,}2203\ m^2$; $I_z = 0{,}0492\ m^4$

Barras 6 y 29, 8 a 14 y 21 a 27

$a = 0{,}40$; $b = 2{,}25$ m

$A_x = 0{,}90\ m^2$; $A_y = 0{,}17627\ m^2$; $I_z = 0{,}0120$

Barras 7 y 28

$a = 0{,}40$; $b = 1{,}85$

$A_x = 0{,}74\ m^2$; $A_y = 0{,}16271\ m^2$; $I_z = 0{,}0099\ m^4$

Barras 15 a 20

$a = 0{,}40$; $b = 0{,}95$ m.

$A_x = 0{,}38\ m^2$; $A_y = 0{,}13220\ m^2$; $I_z = 0{,}0051\ m^4$

Valores de las acciones

VALORES DE LAS ACCIONES.

Peso propio:

gravedad.

1 a 34 0. -1.

Carga muerta:

- Balasto + traviesas + carriles : 4,74 t/m/ circulación.

P= 4,74 x 2 = 9,48 t/ml

Cargamos en barras 1, 2, 3, 32, 33 y 34.

$$q = \frac{9,48 \times 3,00}{2 \times 4,75} = 2,99 \text{ Tn/ml}$$

1 a 3	fuer	y	unif	-2,99		
4	"	"	"	"	0.	0,5187
31	"	"	"	"	1,100	0.
32 a 34	"	"	"	"		

- Arqueta : A= 0,16 m²

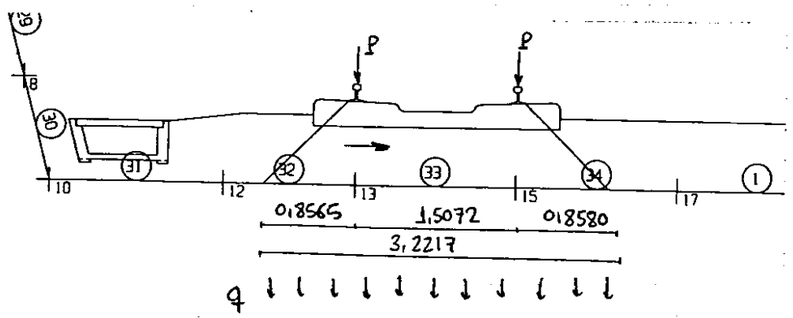
q = 3,00 x 0,60 / 0,85 = 2,12 Tn/ml

4	fuer	y	unif	-2,12	0,5187	1,3640
31	"	"	"	"	0,255	1,100

VALORES DE LAS ACCIONES (Cont.)

S.C. TREN-A

Cargamos con cuatro cargas de 10 Tn. Una vez conocido el momento en el centro (en nudo 17) debido a estas cuatro cargas se iguala con el momento calculado en el momento espacial y se deduce cual es el verdadero valor de las cargas a considerar.



$$q = \frac{2 \times P}{3,2217} = \frac{2 \times 10,00}{3,2217} = 6,2079 \text{ Tn/ml.}$$

1	fuer	y	unif	- 6,2079	0, 6399 0.
2	"	"	"	"	
3	"	"	"	"	0. 0,8580.
32	"	"	"	"	0,3712 0.
33	"	"	"	"	
34	"	"	"	"	0. 0,8580

(El momento del modelo espacial ellos incluido el coeficiente de impacto).

S.C. UNIF. EN PASEOS (500 kg/m²)

0,50 x 3,00 = 1,50 Tn/ml.

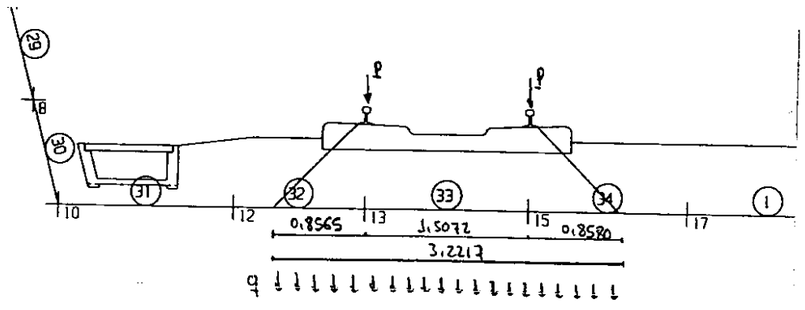
4	fuer	y	unif	-1,50	0,519. 1,369.
31	"	"	"	"	0,255. 1,105.

S.C. TREN-B (12 Tn/ml vía).

Coeficiente de impacto : 1,45.

Q = 1,45 x 12,00 x 3,00 = 52,20 Tn.

que equivale a 2P = 52,20 ; P = 26,10 Tn.



$$q = \frac{2 \times P}{3,2217} = \frac{52,20}{3,2217} = 16,20 \text{ Tn/ml}$$

S.C. TREN-B (Cont)

1	fuer	y	unif	-16,20	0,6399 0.
2	"	"	"	"	
3	"	"	"	"	0. 0,8580
32	"	"	"	"	0,3712 0.
33	"	"	"	"	
34	"	"	"	"	0. 0,8580.

TREN-A (Cont)

En el modelo espacial y en la hipótesis de Tren-A sobre viga transversal, los momentos en centro y extremo de la losa inferior son:

```
estr Seccion transversal (borde , sobre estribo)
nume de nudo    34
nume de barr    34
nume de hipo     1
nume de apoy     2
tipo port plan
list todo
coor de nudo
      1     -7.8207      7.5155
      2     -7.7400      7.1205
      3     -7.7191      7.9197
      4     -7.5493      6.4020
      5     -7.4052      8.2309
      6     -7.0008      8.3509
      7     -6.3615      1.9270
      8     -6.1049      0.9604
      9     -5.9339      8.5831
     10     -5.8500      0.0000 desp x y
     11     -4.5537      8.8192
     12     -4.2313      0.0000
     13     -3.0036      0.0000
     14     -2.8511      9.0225
     15     -1.4964      0.0000
     16     -1.3470      9.1228
     17      0.0000      0.0000
     18      0.0000      9.1571
     19      1.3470      9.1228
     20      1.4964      0.0000
     21      2.8511      9.0225
     22      3.0036      0.0000
     23      4.2313      0.0000
     24      4.5537      8.8192
     25      5.8500      0.0000 desp y
     26      5.9339      8.5831
     27      6.1049      0.9604
     28      6.3615      1.9270
     29      7.0008      8.3509
     30      7.4052      8.2309
     31      7.5493      6.4020
     32      7.7191      7.9197
     33      7.7400      7.1205
     34      7.8207      7.5155
  inci de barr
      1    17    20
      2    20    22
      3    22    23
      4    23    25
      5    25    27
      6    27    28
      7    28    31
      8    31    33
      9    33    34
     10    34    32
     11    32    30
     12    30    29
     13    29    26
     14    26    24
     15    24    21
     16    21    19
     17    19    18
     18    18    16
     19    16    14
     20    14    11
     21    11     9
     22     9     6
     23     6     5
     24     5     3
     25     3     1
     26     1     2
     27     2     4
     28     4     7
     29     7     8
     30     8    10
     31    10    12
     32    12    13
     33    13    15
     34    15    17
  mate de barr
      1 a   34     1
  prop de barr pris
      1 1.2173 0.5592 0.1088
      2 1.1019 0.5071 0.0760
      3 0.9484 0.4192 0.0384
      4 0.7336 0.2870 0.0114
      5 1.4400 1.2203 0.0492
      6 0.9000 0.7627 0.0120
      7 0.7400 0.6271 0.0099
  8 a 14 0.9000 0.7627 0.0120
 15 a 20 0.3800 0.3220 0.0051
 21 a 27 0.9000 0.7627 0.0120
     28 0.7400 0.6271 0.0099
     29 0.9000 0.7627 0.0120
     30 1.4400 1.2203 0.0492
     31 0.7336 0.2870 0.0114
     32 0.9484 0.4192 0.0384
     33 1.1019 0.5071 0.0760
     34 1.2173 0.5592 0.1088
  cons de mate
      1 3000000. 1250000. 2.5
  hipo Cargas unitarias de 10 Tn.
  carg en barr
   1 fuer y unif -6.2079 0.6399 0.
   2 fuer y unif -6.2079
   3 fuer y unif -6.2079 0. 0.8580
  32 fuer y unif -6.2079 0.3712 0.
  33 fuer y unif -6.2079
  34 fuer y unif -6.2079 0. 0.8580
  calc
 problema bien definido, empieza la ejecucion
```

estr Seccion transversal (borde , sobre estribo)

hipo Cargas unitarias de 10 Tn.

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	MOM. Z
1	17	-1.7495	-0.0026	-57.8328
1	20	1.7495	5.3196	55.5518
2	20	-1.7495	-5.3197	-55.5519
2	22	1.7495	14.6762	40.4829
3	22	-1.7495	-14.6762	-40.4829
3	23	1.7495	20.0026	18.2108
4	23	-1.7495	-20.0026	-18.2108
4	25	1.7495	20.0026	-14.1674
5	25	-0.4488	1.6909	14.1674
5	27	0.4488	-1.6909	-12.4872
6	27	-0.4489	1.6909	12.4872
6	28	0.4489	-1.6909	-10.7961
7	28	-0.4489	1.6909	10.7961
7	31	0.4489	-1.6909	-2.9673
8	31	-0.4488	1.6909	2.9672
8	33	0.4488	-1.6909	-1.7103
9	33	-0.3502	1.7141	1.7102
9	34	0.3502	-1.7141	-1.0192
10	34	0.4263	1.6966	1.0192
10	32	-0.4263	-1.6966	-0.3121
11	32	1.2423	1.2317	0.3121
11	30	-1.2423	-1.2317	0.2324
12	30	1.6772	0.4977	-0.2324
12	29	-1.6772	-0.4977	0.4423
13	29	1.7095	0.3721	-0.4423
13	26	-1.7095	-0.3721	0.8486
14	26	1.7244	0.2950	-0.8486
14	24	-1.7244	-0.2950	1.2617
15	24	1.7371	0.2075	-1.2617
15	21	-1.7371	-0.2075	1.6174
16	21	1.7456	0.1164	-1.6174
16	19	-1.7456	-0.1164	1.7930
17	19	1.7489	0.0446	-1.7930
17	18	-1.7489	-0.0446	1.8530
18	18	1.7489	-0.0445	-1.8530
18	16	-1.7489	0.0445	1.7931
19	16	1.7456	-0.1164	-1.7931
19	14	-1.7456	0.1164	1.6176
20	14	1.7371	-0.2074	-1.6176
20	11	-1.7371	0.2074	1.2620
21	11	1.7244	-0.2949	-1.2620
21	9	-1.7244	0.2949	0.8490
22	9	1.7094	-0.3720	-0.8490
22	6	-1.7094	0.3720	0.4428
23	6	1.6772	-0.4976	-0.4428
23	5	-1.6772	0.4976	0.2329
24	5	1.2425	-1.2317	-0.2329
24	3	-1.2425	1.2317	-0.3115
25	3	0.4265	-1.6967	0.3115
25	1	-0.4265	1.6967	-1.0186
26	1	-0.3502	-1.7142	1.0186
26	2	0.3502	1.7142	-1.7097
27	2	-0.4488	-1.6910	1.7097
27	4	0.4488	1.6910	-2.9667
28	4	-0.4488	-1.6909	2.9667
28	7	0.4488	1.6909	-10.7957
29	7	-0.4488	-1.6909	10.7957
29	8	0.4488	1.6909	-12.4868
30	8	-0.4488	-1.6909	12.4867
30	10	0.4488	1.6909	-14.1670
31	10	-1.7495	19.9974	14.1670
31	12	1.7495	-19.9974	18.2028
32	12	-1.7495	19.9974	-18.2028
32	13	1.7495	-14.6803	40.4766
33	13	-1.7495	14.6803	-40.4765
33	15	1.7495	-5.3238	55.5516
34	15	-1.7495	5.3239	-55.5517
34	17	1.7495	0.0025	57.8328

CARGAS APLICADAS EN LOS NUDOS LIBRES

NUDO	FUER. X	FUER. Y	MOM. Z
1	-0.0001	0.0000	0.0000
2	0.0000	0.0000	0.0000
3	0.0001	0.0001	0.0000
4	0.0000	0.0000	0.0000
5	-0.0001	-0.0001	0.0000
6	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000
15	0.0000	0.0001	0.0000
16	0.0000	0.0000	0.0000
17	0.0000	-0.0001	0.0000
18	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000
20	0.0000	0.0000	-0.0001
21	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000

23	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000
32	-0.0001	0.0001	0.0000
33	-0.0001	0.0000	0.0000
34	0.0002	-0.0001	0.0000

REACCIONES EN LOS APOYOS

NUDO	FUER. X	FUER. Y	MOM. Z
10	0.0000	19.9974	0.0000
25	0.0000	20.0026	0.0000

DESPLAZAMIENTOS DE LOS NUDOS LIBRES

NUDO	DESP. X	DESP. Y	GIRO Z
1	0.0008330	0.0002356	0.0005464
2	0.0010467	0.0002792	0.0005311
3	0.0006095	0.0002917	0.0005541
4	0.0014138	0.0003765	0.0004828
5	0.0004363	0.0004661	0.0005545
6	0.0003697	0.0006898	0.0005506
7	0.0016392	0.0004354	-0.0005899
8	0.0009182	0.0002438	-0.0009133
9	0.0002431	0.0012681	0.0005310
11	0.0001213	0.0019748	0.0004899
12	0.0000013	-0.0018432	-0.0009075
13	0.0000020	-0.0028284	-0.0005883
14	0.0000347	0.0026778	0.0003286
15	0.0000028	-0.0035065	-0.0002632
16	0.0000077	0.0030481	0.0001606
17	0.0000036	-0.0037077	0.0000000
18	0.0000029	0.0031569	0.0000000
19	-0.0000019	0.0030481	-0.0001605
20	0.0000043	-0.0035066	0.0002631
21	-0.0000289	0.0026779	-0.0003286
22	0.0000051	-0.0028287	0.0005883
23	0.0000058	-0.0018435	0.0009075
24	-0.0001155	0.0019749	-0.0004899
26	-0.0002373	0.0012683	-0.0005309
27	-0.0009113	0.0002439	0.0009135
28	-0.0016325	0.0004355	0.0005901
29	-0.0003639	0.0006900	-0.0005505
30	-0.0004305	0.0004664	-0.0005545
31	-0.0014078	0.0003768	-0.0004827
32	-0.0006037	0.0002920	-0.0005540
33	-0.0010408	0.0002795	-0.0005310
34	-0.0008271	0.0002359	-0.0005463

DESPLAZAMIENTOS DE LOS APOYOS

NUDO	DESP. X	DESP. Y	GIRO Z
10	0.0000000	0.0000000	-0.0010030
25	0.0000071	0.0000000	0.0010032

4.3.4 Cálculo de los aparatos de apoyo y juntas

proc Viaducto sobre el rio Ebro

HIPOTESIS 291

FUER X MAX envolvente (ELS) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
302	4	242.21	0.00	13.11	0.00	0.00	0.00
302	2	-242.21	0.00	-13.11	0.00	-45.79	-0.44
303	5	242.20	0.00	0.00	0.00	0.00	0.00
303	3	-242.20	0.00	0.00	0.00	0.00	-0.44
304	19	811.04	0.00	0.00	0.00	0.00	0.00
304	17	-811.04	14.12	0.00	0.00	0.00	-66.21
305	20	811.04	0.00	0.00	0.00	0.00	0.00
305	18	-811.04	12.62	0.00	0.00	0.00	-59.16
306	45	792.68	0.00	0.00	0.00	0.00	0.00
306	43	-792.68	-14.16	0.00	0.00	0.00	66.48
307	46	792.68	0.00	0.00	0.00	0.00	0.00
307	44	-792.68	-13.82	0.00	0.00	0.00	64.88
308	71	833.88	0.00	0.00	0.00	0.00	0.00
308	69	-833.88	13.79	0.00	0.00	0.00	-64.76
309	72	833.88	0.00	0.00	0.00	0.00	0.00
309	70	-833.88	13.83	0.00	0.00	0.00	-64.95
310	97	821.43	0.00	0.00	0.00	0.00	0.00
310	95	-821.43	13.81	0.00	0.00	0.00	-64.89
311	98	821.43	0.00	0.00	0.00	0.00	0.00
311	96	-821.43	13.76	0.00	0.00	0.00	-64.66
312	123	815.34	0.00	0.00	0.00	0.00	0.00
312	121	-815.34	-14.20	0.00	0.00	0.00	66.73
313	124	815.34	0.00	0.00	0.00	0.00	0.00
313	122	-815.34	-13.92	0.00	0.00	0.00	65.42
314	149	902.65	0.00	0.00	0.00	0.00	0.00
314	147	-902.65	12.75	0.00	0.00	0.00	-59.99
315	150	902.65	0.00	0.00	0.00	0.00	0.00
315	148	-902.65	12.90	0.00	0.00	0.00	-60.69
316	175	1193.17	0.00	0.00	0.00	0.00	0.00
316	173	-1193.17	25.64	0.00	0.00	0.00	-120.50
317	176	1193.17	0.00	0.00	0.00	0.00	0.00
317	174	-1193.17	25.39	0.00	0.00	0.00	-119.33
318	210	2229.86	0.00	0.00	0.00	0.00	0.00
318	208	-2229.86	37.77	0.00	0.00	0.00	-177.52
319	211	2229.86	0.00	0.00	0.00	0.00	0.00
319	209	-2229.86	40.44	0.00	0.00	0.00	-190.07
320	254	4423.40	0.00	0.00	0.00	0.00	0.00
320	252	-4423.40	-105.18	0.00	0.00	0.00	493.70
321	255	4423.40	0.00	0.00	0.00	0.00	0.00
321	253	-4423.40	-103.04	0.00	0.00	0.00	483.64
322	328	4372.97	0.00	0.00	0.00	0.00	0.00
322	326	-4372.97	103.08	0.00	0.00	0.00	-483.81

323	329	4372.97	0.00	0.00	0.00	0.00	0.00
323	327	-4372.97	101.33	0.00	0.00	0.00	-475.59
324	372	2498.67	0.00	0.00	0.00	0.00	0.00
324	370	-2498.67	45.65	0.00	0.00	0.00	-214.52
325	373	2498.67	0.00	0.00	0.00	0.00	0.00
325	371	-2498.67	49.13	0.00	0.00	0.00	-230.87
326	416	2483.38	0.00	0.00	0.00	0.00	0.00
326	414	-2483.38	-58.93	0.00	0.00	0.00	276.96
327	417	2483.38	0.00	0.00	0.00	0.00	0.00
327	415	-2483.38	-56.27	0.00	0.00	0.00	264.46
328	451	871.21	470.59	-0.03	0.00	0.00	0.00
328	449	-871.21	-457.77	0.03	0.00	0.13	2151.55
329	452	871.23	471.61	0.00	0.00	0.00	0.00
329	450	-871.23	-457.77	0.00	0.00	0.00	2151.55

HIPOTESIS 292

FUER X MIN envolvente (ELS) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
302	4	51.93	0.00	-13.12	0.00	0.00	0.00
302	2	-51.93	0.00	13.12	0.00	45.84	-0.27
303	5	51.95	0.00	0.00	0.00	0.00	0.00
303	3	-51.95	0.00	0.00	0.00	0.00	-0.27
304	19	344.84	0.00	-6.18	0.00	0.00	0.00
304	17	-344.84	-12.71	6.18	0.00	29.07	59.77
305	20	344.84	0.00	0.00	0.00	0.00	0.00
305	18	-344.84	-11.36	0.00	0.00	-0.01	53.42
306	45	298.61	0.00	-11.37	0.00	0.00	0.00
306	43	-298.61	12.74	11.37	0.00	53.48	-59.95
307	46	298.61	0.00	0.00	0.00	0.00	0.00
307	44	-298.61	12.44	0.00	0.00	-0.02	-58.51
308	71	334.96	0.00	-12.76	0.00	0.00	0.00
308	69	-334.96	-12.41	12.76	0.00	60.00	58.32
309	72	334.95	0.00	0.00	0.00	0.00	0.00
309	70	-334.95	-12.45	0.00	0.00	-0.02	58.49
310	97	323.64	0.00	-12.08	0.00	0.00	0.00
310	95	-323.64	-12.43	12.08	0.00	56.79	58.39
311	98	323.64	0.00	0.00	0.00	0.00	0.00
311	96	-323.64	-12.38	0.00	0.00	-0.02	58.18
312	123	309.21	0.00	-10.02	0.00	0.00	0.00
312	121	-309.21	12.78	10.02	0.00	47.12	-60.00
313	124	309.21	0.00	0.00	0.00	0.00	0.00
313	122	-309.21	12.53	0.00	0.00	-0.02	-58.82
314	149	353.32	0.00	-7.13	0.00	0.00	0.00
314	147	-353.32	-11.47	7.13	0.00	33.54	53.88
315	150	353.33	0.00	0.00	0.00	0.00	0.00
315	148	-353.33	-11.61	0.00	0.00	-0.01	54.51
316	175	299.50	0.00	-64.89	0.00	0.00	0.00
316	173	-299.50	-23.08	64.89	0.00	305.00	108.40
317	176	299.99	0.00	0.00	0.00	0.00	0.00
317	174	-299.99	-22.85	0.00	0.00	-0.01	107.35
318	210	916.23	0.00	-61.18	0.00	0.00	0.00
318	208	-916.23	-33.99	61.18	0.00	287.50	159.73
319	211	915.67	0.00	0.00	0.00	0.00	0.00
319	209	-915.67	-36.40	0.00	0.00	0.04	171.02
320	254	2482.25	0.00	-255.95	0.00	0.00	0.00
320	252	-2482.25	94.66	255.95	0.00	1202.98	-444.93
321	255	2482.87	0.00	0.00	0.00	0.00	0.00
321	253	-2482.87	92.74	0.00	0.00	-0.05	-435.88
322	328	2444.98	0.00	-256.86	0.00	0.00	0.00
322	326	-2444.98	-92.77	256.86	0.00	1207.30	436.05

323	329	2445.57	0.00	0.00	0.00	0.00	0.00
323	327	-2445.57	-91.20	0.00	0.00	-0.05	428.65
324	372	1144.68	0.00	-153.98	0.00	0.00	0.00
324	370	-1144.68	-41.08	153.98	0.00	723.74	193.04
325	373	1143.38	0.00	0.00	0.00	0.00	0.00
325	371	-1143.38	-44.22	0.00	0.00	-0.01	207.76
326	416	1057.58	0.00	-121.42	0.00	0.00	0.00
326	414	-1057.58	53.04	121.42	0.00	570.68	-249.15
327	417	1058.74	0.00	0.00	0.00	0.00	0.00
327	415	-1058.74	50.64	0.00	0.00	-0.01	-237.91
328	451	236.89	-820.09	-25.97	0.00	0.00	0.00
328	449	-236.89	807.27	25.97	0.00	122.07	-3793.96
329	452	237.25	-821.10	0.00	0.00	0.00	0.00
329	450	-237.25	807.26	0.00	0.00	0.00	-3793.97

proc Viaducto sobre el rio Ebro

HIPOTESIS 295

FUER Z MAX envolvente (ELS) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
302	4	103.90	0.00	14.78	0.00	0.00	0.00
302	2	-103.90	0.00	-14.78	0.00	-47.43	-0.39
303	5	96.46	0.00	0.00	0.00	0.00	0.00
303	3	-96.46	0.00	0.00	0.00	0.00	-0.40
304	19	629.05	0.00	27.81	0.00	0.00	0.00
304	17	-629.05	0.00	-27.81	0.00	-50.28	-0.97
305	20	440.41	0.00	0.00	0.00	0.00	0.00
305	18	-440.41	0.00	0.00	0.00	0.00	0.22
306	45	421.33	0.00	17.37	0.00	0.00	0.00
306	43	-421.33	-14.16	-17.37	0.00	-81.66	66.50
307	46	382.93	0.00	0.00	0.00	0.00	0.00
307	44	-382.93	0.00	0.00	0.00	0.00	-0.08
308	71	460.36	0.00	19.42	0.00	0.00	0.00
308	69	-460.36	13.79	-19.42	0.00	-91.30	-64.75
309	72	427.27	0.00	0.00	0.00	0.00	0.00
309	70	-427.27	0.00	0.00	0.00	0.00	0.03
310	97	446.66	0.00	18.04	0.00	0.00	0.00
310	95	-446.66	13.81	-18.04	0.00	-84.83	-64.90
311	98	412.98	0.00	0.00	0.00	0.00	0.00
311	96	-412.98	0.00	0.00	0.00	0.00	-0.02
312	123	439.52	0.00	14.55	0.00	0.00	0.00
312	121	-439.52	-14.20	-14.55	0.00	-68.41	66.72
313	124	402.34	0.00	0.00	0.00	0.00	0.00
313	122	-402.34	0.00	0.00	0.00	0.00	0.04
314	149	503.03	0.00	30.30	0.00	0.00	0.00
314	147	-503.03	0.00	-30.30	0.00	-56.20	0.43
315	150	484.55	0.00	0.00	0.00	0.00	0.00
315	148	-484.55	0.00	0.00	0.00	0.00	-0.15
316	175	646.17	0.00	72.08	0.00	0.00	0.00
316	173	-646.17	25.64	-72.08	0.00	-338.78	-120.50
317	176	486.06	0.00	0.00	0.00	0.00	0.00
317	174	-486.06	0.00	0.00	0.00	0.00	-0.04
318	210	1525.05	0.00	136.34	0.00	0.00	0.00
318	208	-1525.05	37.77	-136.34	0.00	-640.80	-177.49
319	211	1328.22	0.00	0.00	0.00	0.00	0.00
319	209	-1328.22	0.00	0.00	0.00	0.00	-0.03
320	254	3256.41	0.00	284.39	0.00	0.00	0.00
320	252	-3256.41	-105.18	-284.39	0.00	-1336.71	493.91
321	255	3051.35	0.00	0.00	0.00	0.00	0.00
321	253	-3051.35	0.00	0.00	0.00	0.00	-0.33
322	328	3213.34	0.00	285.40	0.00	0.00	0.00
322	326	-3213.34	103.08	-285.40	0.00	-1341.44	-484.03

323	329	3013.14	0.00	0.00	0.00	0.00	0.00
323	327	-3013.14	0.00	0.00	0.00	0.00	0.34
324	372	1728.08	0.00	171.09	0.00	0.00	0.00
324	370	-1728.08	45.65	-171.09	0.00	-804.12	-214.52
325	373	1503.94	0.00	0.00	0.00	0.00	0.00
325	371	-1503.94	0.00	0.00	0.00	0.00	-0.02
326	416	1750.38	0.00	134.92	0.00	0.00	0.00
326	414	-1750.38	-58.93	-134.92	0.00	-634.12	276.93
327	417	1511.77	0.00	0.00	0.00	0.00	0.00
327	415	-1511.77	0.00	0.00	0.00	0.00	0.06
328	451	410.31	-470.59	50.01	0.00	0.00	0.00
328	449	-410.31	457.77	-50.01	0.00	-235.07	-2151.35
329	452	443.31	0.00	0.00	0.00	0.00	0.00
329	450	-443.31	0.00	0.00	0.00	0.00	0.06

proc Viaducto sobre el rio Ebro

HIPOTESIS 296

FUER Z MIN envolvente (ELS) (total)

E S F U E R Z O S E N B A R R A S

BARRA	NUDO	AXIL	CORT. Y	CORT. Z	TORSOR	FLECTOR Y	FLECTOR Z
302	4	146.32	0.00	-32.95	0.00	0.00	0.00
302	2	-146.32	0.00	32.95	0.00	61.98	-4.75
303	5	96.46	0.00	0.00	0.00	0.00	0.00
303	3	-96.46	0.00	0.00	0.00	0.00	-0.40
304	19	403.22	0.00	-9.15	0.00	0.00	0.00
304	17	-403.22	-14.12	9.15	0.00	43.05	66.41
305	20	440.41	0.00	0.00	0.00	0.00	0.00
305	18	-440.41	0.00	0.00	0.00	0.00	0.22
306	45	350.86	0.00	-17.37	0.00	0.00	0.00
306	43	-350.86	14.16	17.37	0.00	81.66	-66.61
307	46	382.93	0.00	0.00	0.00	0.00	0.00
307	44	-382.93	0.00	0.00	0.00	0.00	-0.08
308	71	391.67	0.00	-19.42	0.00	0.00	0.00
308	69	-391.67	-13.79	19.42	0.00	91.32	64.80
309	72	427.27	0.00	0.00	0.00	0.00	0.00
309	70	-427.27	0.00	0.00	0.00	0.00	0.03
310	97	379.56	0.00	-18.04	0.00	0.00	0.00
310	95	-379.56	-13.81	18.04	0.00	84.85	64.88
311	98	412.98	0.00	0.00	0.00	0.00	0.00
311	96	-412.98	0.00	0.00	0.00	0.00	-0.02
312	123	366.52	0.00	-14.54	0.00	0.00	0.00
312	121	-366.52	14.20	14.54	0.00	68.39	-66.67
313	124	402.34	0.00	0.00	0.00	0.00	0.00
313	122	-402.34	0.00	0.00	0.00	0.00	0.04
314	149	591.54	0.00	-19.18	0.00	0.00	0.00
314	147	-591.54	0.00	19.18	0.00	45.31	0.87
315	150	484.55	0.00	0.00	0.00	0.00	0.00
315	148	-484.55	0.00	0.00	0.00	0.00	-0.15
316	175	381.99	0.00	-72.10	0.00	0.00	0.00
316	173	-381.99	-25.64	72.10	0.00	338.89	120.45
317	176	486.06	0.00	0.00	0.00	0.00	0.00
317	174	-486.06	0.00	0.00	0.00	0.00	-0.04
318	210	1134.91	0.00	-136.34	0.00	0.00	0.00
318	208	-1134.91	-37.77	136.34	0.00	640.79	177.45
319	211	1328.22	0.00	0.00	0.00	0.00	0.00
319	209	-1328.22	0.00	0.00	0.00	0.00	-0.03
320	254	2795.56	0.00	-284.38	0.00	0.00	0.00
320	252	-2795.56	105.18	284.38	0.00	1336.65	-494.36
321	255	3051.35	0.00	0.00	0.00	0.00	0.00
321	253	-3051.35	0.00	0.00	0.00	0.00	-0.33
322	328	2752.25	0.00	-285.40	0.00	0.00	0.00
322	326	-2752.25	-103.08	285.40	0.00	1341.44	484.50

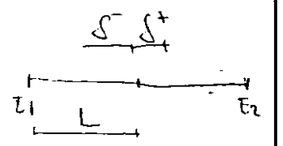
323	329	3013.14	0.00	0.00	0.00	0.00	0.00
323	327	-3013.14	0.00	0.00	0.00	0.00	0.34
324	372	1328.67	0.00	-171.09	0.00	0.00	0.00
324	370	-1328.67	-45.65	171.09	0.00	804.15	214.49
325	373	1503.94	0.00	0.00	0.00	0.00	0.00
325	371	-1503.94	0.00	0.00	0.00	0.00	-0.02
326	416	1254.52	0.00	-134.91	0.00	0.00	0.00
326	414	-1254.52	58.93	134.91	0.00	634.09	-276.84
327	417	1511.77	0.00	0.00	0.00	0.00	0.00
327	415	-1511.77	0.00	0.00	0.00	0.00	0.06
328	451	476.31	470.59	-50.02	0.00	0.00	0.00
328	449	-476.31	-457.77	50.02	0.00	235.08	2151.46
329	452	443.31	0.00	0.00	0.00	0.00	0.00
329	450	-443.31	0.00	0.00	0.00	0.00	0.06

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

CARGAS Y DESPLAZAMIENTOS MAXIMOS



PILA/ESTRIBO	Nmax (Tn)	Hmax (Tn)	L(m)	δ^+_{max}	δ^-_{max}(mm)	Apoyo
E-1	250	47	0	0	0	Pu/PL 300
P-1	815	28	18	4	20	
P-2	800	18	42	9	47	
P-3	835	20	66	14	73	Pu/PL 900
P-4	825	19	90	18	99	
P-5	820	15	114	23	126	
P-6	905	31	138	28	152	Pu/PL. 1000
P-7	1195	73	162	33	179	Pu/PL 1300
P-8	2230	137	204	41	225	Pu/PL 2500
P-9	4425	285	264	53	291	Pu/PL 4500
P-10	4375	286	384	77	423	
P-11	2500	172	444	89	489	Pu/PL 2600
P-12	2485	135	504	101	555	Pu/PL 2600
E-2	871	236	546	110	601	Pu/PL 900

$\delta^- = (90+20) \cdot 10^{-5} \cdot 10^3 \cdot L = 1,10\ L$

$\delta^+ = 0,20\ L$

4.3.5 Cálculo de las pilas

4.3.5 CÁLCULO DE LAS PILAS

ÍNDICE

MODELOS DE ELMENTOS FINITOS

PILAS 1 A 6

Esfuerzos

Listado de datos

Resultados

PILAS 7, 8, 11 Y 12

Esfuerzos

Listado de datos

Resultados

PILAS 9 A 10

Esfuerzos

Listado de datos

Resultados

COMPROBACIÓN A FLEXIÓN ESVIADA

PILAS 1 A 6

Esfuerzos

Sección por pie de pila

Comprobación a flexión esviada

Listado de resultados

Sección por garganta de pila

Comprobación a flexión esviada

Listado de resultados

PILAS 7, 8, 11 y12

Esfuerzos

Sección por pie de pila

Comprobación a flexión esviada

Listado de resultados

Sección por garganta de pila

Comprobación a flexión esviada

Listado de resultados

PILAS 9 Y 10

Esfuerzos

Sección por pie de pila

Comprobación a flexión esviada

Listado de resultados

Sección por garganta de pila

Comprobación a flexión esviada

Listado de resultados

CIMENTACIONES

PILAS 1 A 6

Esfuerzos

Armadura

Comprobación a cortante

PILA 7

Esfuerzos

Armadura

Comprobación a cortante

PILAS 8, 11 Y 12

Esfuerzos

Armadura

PILAS 9 Y 10

Esfuerzos

Armadura

Comprobación a cortante

PILOTES

Pilas 1 a 6

Pilas 7 a 8

Pilas 9 y 10

Pilas 11 a 12

PILAS

CALCULO DE ARMADURA CON MODELOS DE ELEMENTOS FINITOS

- Datos de materiales:

  $E = 3.195\,000\ Tn/m^2$

  $\mu = 0{,}120$

  espesor = variable (Ver fichero de datos)

ACCIONES

Los esfuerzos que consideramos son los correspondientes a las barras:

PILA	BARRAS	PILA	BARRAS
1	304, 305	7	316, 317
2	306, 307	8	318, 319
3	308, 309	9	320, 321
4	310, 311	10	322, 323
5	312, 313	11	324, 325
6	314, 315	12	326, 327

PILAS 1 a 6

Esfuerzos

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 304 extremo frontal P-1

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1195.97	21.18	0.00
512 FUER X MIN envolvente (ELU) (tota	-285.90	-19.06	9.27
513 FUER Y MAX envolvente (ELU) (tota	-398.32	-21.18	0.00
514 FUER Y MIN envolvente (ELU) (tota	-402.66	21.18	0.00
515 FUER Z MAX envolvente (ELU) (tota	-709.46	0.00	-41.71
516 FUER Z MIN envolvente (ELU) (tota	-399.37	0.00	13.73
517 MOME X MAX envolvente (ELU) (tota	-400.49	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-400.49	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-710.17	0.00	-41.71
520 MOME Y MIN envolvente (ELU) (tota	-399.37	0.00	13.73
521 MOME Z MAX envolvente (ELU) (tota	-1006.07	21.18	-35.96
522 MOME Z MIN envolvente (ELU) (tota	-611.79	-21.18	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 305 extremo frontal P-1

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1195.97	18.93	0.00
512 FUER X MIN envolvente (ELU) (tota	-285.91	-17.04	0.00
513 FUER Y MAX envolvente (ELU) (tota	-398.32	-18.93	0.00
514 FUER Y MIN envolvente (ELU) (tota	-402.66	18.93	0.00
515 FUER Z MAX envolvente (ELU) (tota	-400.49	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-400.49	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-400.49	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-400.49	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-766.77	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-822.70	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-999.89	18.93	0.00
522 MOME Z MIN envolvente (ELU) (tota	-611.79	-18.93	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 306 extremo frontal P-2

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1204.14	-21.24	0.00
512 FUER X MIN envolvente (ELU) (tota	-237.93	19.12	17.06
513 FUER Y MAX envolvente (ELU) (tota	-341.43	-21.24	0.00
514 FUER Y MIN envolvente (ELU) (tota	-340.72	21.24	0.00
515 FUER Z MAX envolvente (ELU) (tota	-346.48	0.00	-26.05
516 FUER Z MIN envolvente (ELU) (tota	-335.68	0.00	26.05
517 MOME X MAX envolvente (ELU) (tota	-341.08	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-341.08	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-346.48	0.00	-26.05
520 MOME Y MIN envolvente (ELU) (tota	-335.68	0.00	26.05
521 MOME Z MAX envolvente (ELU) (tota	-645.53	21.24	0.00
522 MOME Z MIN envolvente (ELU) (tota	-1027.05	-21.24	-5.56

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 307 extremo frontal P-2

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1204.14	-20.73	0.00
512 FUER X MIN envolvente (ELU) (tota	-237.93	18.66	0.00
513 FUER Y MAX envolvente (ELU) (tota	-341.43	-20.73	0.00
514 FUER Y MIN envolvente (ELU) (tota	-340.72	20.73	0.00
515 FUER Z MAX envolvente (ELU) (tota	-341.08	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-341.08	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-341.08	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-341.08	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-738.29	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-716.24	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-645.53	20.73	0.00
522 MOME Z MIN envolvente (ELU) (tota	-1026.21	-20.73	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 308 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1243.55	20.68	0.00
512 FUER X MIN envolvente (ELU) (tota	-274.00	-18.62	19.14
513 FUER Y MAX envolvente (ELU) (tota	-385.99	-20.68	0.00
514 FUER Y MIN envolvente (ELU) (tota	-386.02	20.68	0.00
515 FUER Z MAX envolvente (ELU) (tota	-392.62	0.00	-29.13
516 FUER Z MIN envolvente (ELU) (tota	-379.38	0.00	29.13
517 MOME X MAX envolvente (ELU) (tota	-386.00	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-386.00	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-392.62	0.00	-29.13
520 MOME Y MIN envolvente (ELU) (tota	-379.38	0.00	29.13
521 MOME Z MAX envolvente (ELU) (tota	-922.03	20.68	0.00
522 MOME Z MIN envolvente (ELU) (tota	-671.87	-20.68	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 309 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1243.55	20.74	0.00
512 FUER X MIN envolvente (ELU) (tota	-274.00	-18.67	0.00
513 FUER Y MAX envolvente (ELU) (tota	-385.99	-20.74	0.00
514 FUER Y MIN envolvente (ELU) (tota	-386.02	20.74	0.00
515 FUER Z MAX envolvente (ELU) (tota	-386.00	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-386.00	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-386.00	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-386.00	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-778.15	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-757.78	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-922.03	20.74	0.00
522 MOME Z MIN envolvente (ELU) (tota	-671.87	-20.74	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 310 extremo frontal P-4

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1231.40	20.72	0.00
512 FUER X MIN envolvente (ELU) (tota	-262.66	-18.64	18.12
513 FUER Y MAX envolvente (ELU) (tota	-371.74	-20.72	0.00
514 FUER Y MIN envolvente (ELU) (tota	-371.93	20.72	0.00
515 FUER Z MAX envolvente (ELU) (tota	-377.62	0.00	-27.06
516 FUER Z MIN envolvente (ELU) (tota	-366.04	0.00	27.06
517 MOME X MAX envolvente (ELU) (tota	-371.83	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-371.83	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-377.62	0.00	-27.06
520 MOME Y MIN envolvente (ELU) (tota	-366.04	0.00	27.06
521 MOME Z MAX envolvente (ELU) (tota	-660.02	20.72	0.00
522 MOME Z MIN envolvente (ELU) (tota	-907.06	-20.72	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 311 extremo frontal P-4

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1231.40	20.64	0.00
512 FUER X MIN envolvente (ELU) (tota	-262.66	-18.58	0.00
513 FUER Y MAX envolvente (ELU) (tota	-371.74	-20.64	0.00
514 FUER Y MIN envolvente (ELU) (tota	-371.93	20.64	0.00
515 FUER Z MAX envolvente (ELU) (tota	-371.83	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-371.83	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-371.83	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-371.83	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-765.44	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-744.22	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-660.02	20.64	0.00
522 MOME Z MIN envolvente (ELU) (tota	-907.06	-20.64	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 312 extremo frontal P-5

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1231.52	-21.30	0.00
512 FUER X MIN envolvente (ELU) (tota	-244.73	19.17	15.03
513 FUER Y MAX envolvente (ELU) (tota	-360.28	-21.30	0.00
514 FUER Y MIN envolvente (ELU) (tota	-359.89	21.30	0.00
515 FUER Z MAX envolvente (ELU) (tota	-363.78	0.00	-21.82
516 FUER Z MIN envolvente (ELU) (tota	-356.39	0.00	21.82
517 MOME X MAX envolvente (ELU) (tota	-360.08	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-360.08	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-363.78	0.00	-21.82
520 MOME Y MIN envolvente (ELU) (tota	-356.39	0.00	21.82
521 MOME Z MAX envolvente (ELU) (tota	-1055.07	21.30	-4.21
522 MOME Z MIN envolvente (ELU) (tota	-653.23	-21.30	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 313 extremo frontal P-5

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1231.52	-20.88	0.00
512 FUER X MIN envolvente (ELU) (tota	-244.73	18.79	0.00
513 FUER Y MAX envolvente (ELU) (tota	-360.28	-20.88	0.00
514 FUER Y MIN envolvente (ELU) (tota	-359.89	20.88	0.00
515 FUER Z MAX envolvente (ELU) (tota	-360.08	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-360.08	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-360.08	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-360.08	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-757.86	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-734.80	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-1054.36	20.88	0.00
522 MOME Z MIN envolvente (ELU) (tota	-653.23	-20.88	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 314 extremo frontal P-6

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1298.38	19.13	0.00
512 FUER X MIN envolvente (ELU) (tota	-285.29	-17.21	10.70
513 FUER Y MAX envolvente (ELU) (tota	-447.03	-19.13	0.00
514 FUER Y MIN envolvente (ELU) (tota	-447.39	19.13	0.00
515 FUER Z MAX envolvente (ELU) (tota	-502.90	0.00	-45.45
516 FUER Z MIN envolvente (ELU) (tota	-635.66	0.00	28.77
517 MOME X MAX envolvente (ELU) (tota	-447.21	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-447.21	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-503.34	0.00	-45.45
520 MOME Y MIN envolvente (ELU) (tota	-445.69	0.00	15.91
521 MOME Z MAX envolvente (ELU) (tota	-714.83	19.13	0.00
522 MOME Z MIN envolvente (ELU) (tota	-968.10	-19.13	-17.37

proc Viaducto sobre el rio Ebro

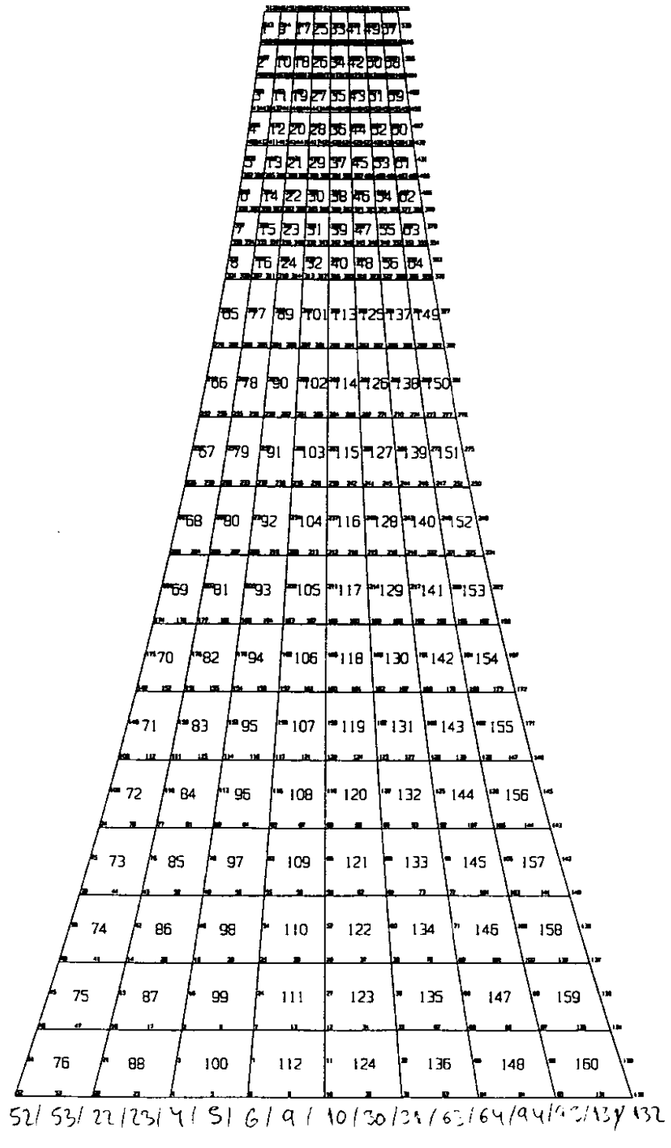
Esfuerzos de la barra 315 extremo frontal P-6

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1298.38	19.35	0.00
512 FUER X MIN envolvente (ELU) (tota	-285.31	-17.41	0.00
513 FUER Y MAX envolvente (ELU) (tota	-447.03	-19.35	0.00
514 FUER Y MIN envolvente (ELU) (tota	-447.39	19.35	0.00
515 FUER Z MAX envolvente (ELU) (tota	-447.21	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-447.21	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-447.21	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-447.21	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-895.20	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-863.44	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-714.83	19.35	0.00
522 MOME Z MIN envolvente (ELU) (tota	-964.89	-19.35	0.00

Listado de datos

elef (Pilas 1 a 6)
Malla



CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____

FECHA _____

Espesores de elementos

Nº Elem	Espesor	Nº Elem	Espesor
1	2,23	33	2,30
2	2,22	34	2,30
3	2,21	35	2,30
4	2,20	36	2,30
5	2,18	[illegible]	2,30
6	2,17	[illegible]	2,30
7	2,15	[illegible]	2,30
8	2,14	40	2,30
9	2,26	41	2,29
10	2,26	[illegible]	2,29
11	2,25	[illegible]	2,29
12	2,25	[illegible]	2,28
13	2,24	[illegible]	2,28
14	2,24	[illegible]	2,28
15	2,23	[illegible]	2,28
16	2,22	[illegible]	2,27
[illegible]	2,29	[illegible]	2,26
[illegible]	2,29	50	2,26
[illegible]	2,29	[illegible]	2,25
[illegible]	2,28	[illegible]	2,25
[illegible]	2,28	[illegible]	2,24
[illegible]	2,28	[illegible]	2,24
[illegible]	2,28	[illegible]	2,23
[illegible]	2,27	[illegible]	2,22
[illegible]	2,30	[illegible]	2,23
[illegible]	2,30	[illegible]	2,22
[illegible]	2,30	[illegible]	2,21
[illegible]	2,30	[illegible]	2,20
[illegible]	2,30	[illegible]	2,18
[illegible]	2,30	[illegible]	2,17
[illegible]	2,30	[illegible]	2,15
32	2,30	[illegible]	2,14

Espesores de elementos

Nº Elem.	Espesor	Nº Elem.	Espesor	Nº Elem.	Espesor
65	2,11	97	2,14	129	2,22
66	2,06	98	2,11	130	2,21
67	2,00	99	2,08	131	2,19
68	1,93	100	2,04	132	2,16
69	1,85	101	2,30	133	2,14
70	1,76	102	2,30	134	2,11
71	1,65	103	2,30	135	2,08
72	1,51	104	2,30	136	2,04
73	1,36	105	2,29	137	2,20
74	1,19	106	2,29	138	2,18
75	0,98	107	2,29	139	2,15
76	0,74	108	2,29	140	2,12
77	2,20	109	2,29	141	2,08
78	2,18	110	2,28	142	2,03
79	2,15	111	2,25	143	1,97
80	2,12	112	2,24	144	1,91
81	2,08	113	2,30	145	1,84
82	2,03	114	2,30	146	1,75
83	1,97	115	2,30	147	1,66
84	1,91	116	2,30	148	1,54
85	1,84	117	2,29	149	2,11
86	1,75	118	2,29	150	2,06
87	1,66	119	2,29	151	2,00
88	1,54	120	2,29	152	1,93
89	2,27	121	2,29	153	1,85
90	2,26	122	2,28	154	1,76
91	2,25	123	2,29	155	1,65
92	2,24	124	2,27	156	1,51
93	2,22	125	2,27	157	1,36
94	2,21	126	2,26	158	1,19
95	2,19	127	2,25	159	0,98
96	2,16	128	2,24	160	0,74

PILAS 1 a 6

Son apoyos (empotramientos) los nudos:

52; 53; 22, 23; 4, 5, 6, 9, 10; 30, 31; 63, 64; 95; 95; 131 y 132

Las cargas las repartimos entre los nudos:

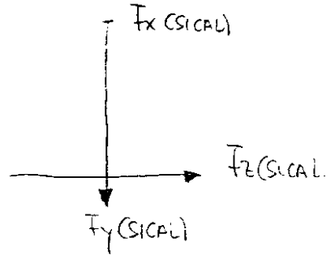
518; 522; 521; 525; 524; 528; 527; 531; 530

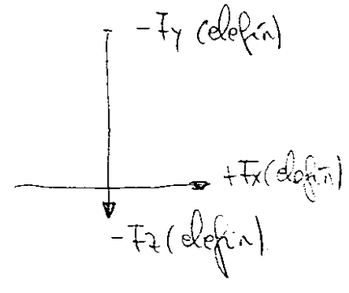
f_x (elefin) = $\frac{1}{9}$ f_z (sical)

f_y (elefin) = $\frac{1}{9}$ f_x (sical)

f_z (elefin) = $\frac{1}{9}$ f_y (sical)

Equivalencia de signos:

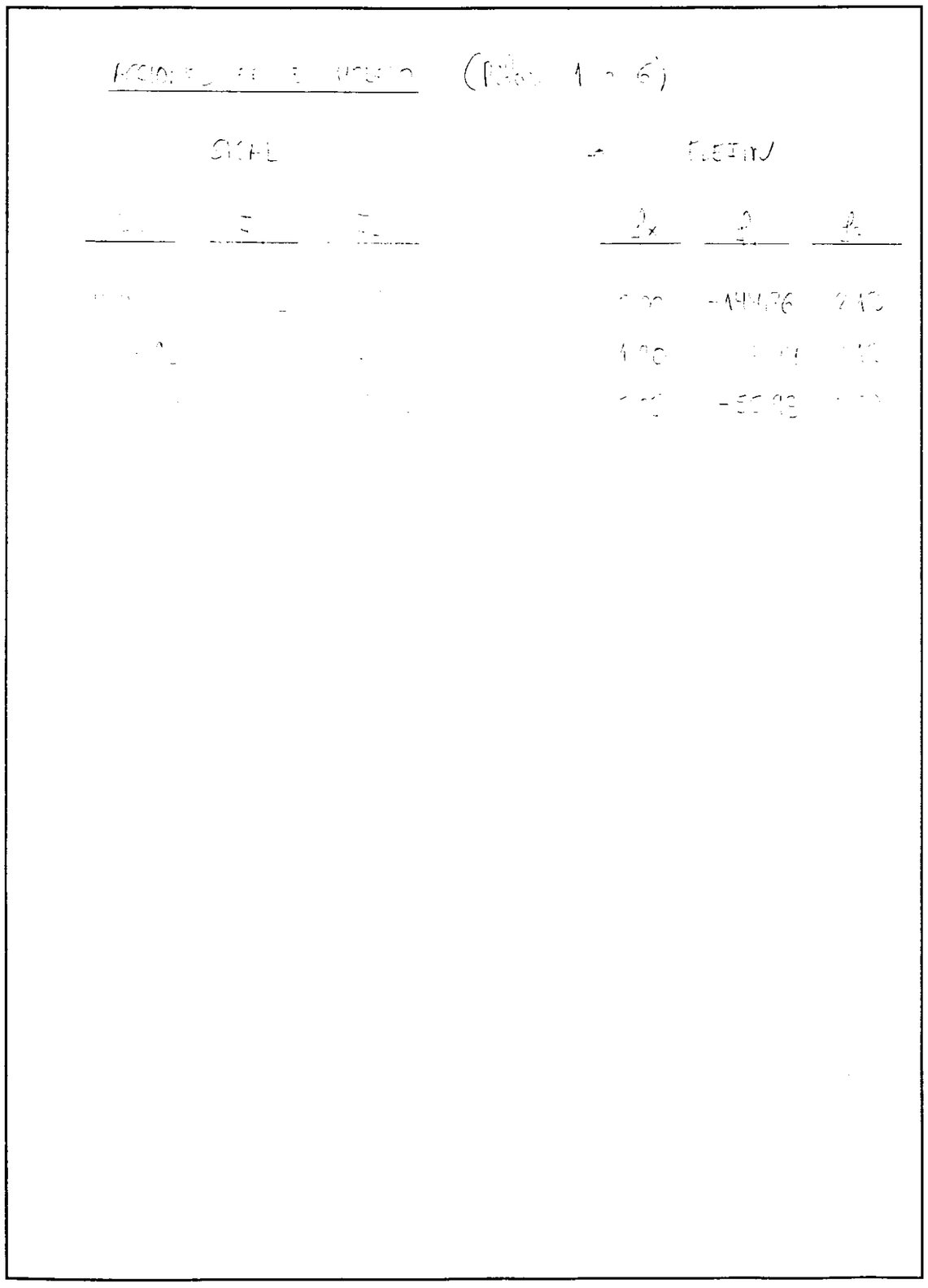




CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO_____ HOJA____ DE ____

FECHA _____



```
elef
  537  160  160    3    6    8 1
mall
coor
     1      2.2768      0.3224
     2      1.6073      0.6448
     3      1.5536      0.3224
     4      1.5000      0.0000
     5      1.8750      0.0000
     6      2.2500      0.0000
     7      2.3036      0.6448
     8      1.9555      0.6448
     9      2.6250      0.0000
    10      3.0000      0.0000
    11      3.0000      0.3224
    12      3.0000      0.6448
    13      2.6518      0.6448
    14      1.0652      1.2925
    15      0.9881      0.9687
    16      0.9109      0.6448
    17      1.2591      0.6448
    18      1.6587      0.9687
    19      1.7102      1.2925
    20      1.3877      1.2925
    21      0.8305      0.3224
    22      0.7500      0.0000
    23      1.1250      0.0000
    24      2.3294      0.9687
    25      2.3551      1.2925
    26      2.0326      1.2925
    27      3.0000      0.9687
    28      3.0000      1.2925
    29      2.6775      1.2925
    30      3.3750      0.0000
    31      3.7500      0.0000
    32      3.7232      0.3224
    33      3.6964      0.6448
    34      3.3482      0.6448
    35      3.6706      0.9687
    36      3.6449      1.2925
    37      3.3225      1.2925
    38      0.6172      1.9430
    39      0.5188      1.6177
    40      0.4203      1.2925
    41      0.7428      1.2925
    42      1.1391      1.6177
    43      1.2129      1.9430
    44      0.9151      1.9430
    45      0.3174      0.9687
    46      0.2145      0.6448
    47      0.5627      0.6448
    48      1.7594      1.6177
    49      1.8086      1.9430
    50      1.5108      1.9430
    51      0.1073      0.3224
    52      0.0000      0.0000
    53      0.3750      0.0000
    54      2.3797      1.6177
    55      2.4043      1.9430
    56      2.1065      1.9430
    57      3.0000      1.6177
    58      3.0000      1.9430
    59      2.7022      1.9430
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61	3.5957	1.9430
62	3.2978	1.9430
63	4.1250	0.0000
64	4.5000	0.0000
65	4.4464	0.3224
66	4.3927	0.6448
67	4.0445	0.6448
68	4.3413	0.9687
69	4.2898	1.2925
70	3.9674	1.2925
71	4.2406	1.6177
72	4.1914	1.9430
73	3.8935	1.9430
74	0.8053	2.5960
75	0.7113	2.2695
76	1.2835	2.2695
77	1.3540	2.5960
78	1.0797	2.5960
79	1.8556	2.2695
80	1.9027	2.5960
81	1.6283	2.5960
82	2.4278	2.2695
83	2.4513	2.5960
84	2.1770	2.5960
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90	3.2743	2.5960
91	4.1444	2.2695
92	4.0973	2.5960
93	3.8230	2.5960
94	4.8750	0.0000
95	5.2500	0.0000
96	5.1695	0.3224
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98	4.7409	0.6448
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101	4.6123	1.2925
102	4.8609	1.6177
103	4.7871	1.9430
104	4.4892	1.9430
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107	4.3717	2.5960
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109	0.8949	2.9238
110	1.4212	2.9238
111	1.4884	3.2515
112	1.2364	3.2515
113	1.9475	2.9238
114	1.9923	3.2515
115	1.7403	3.2515
116	2.4737	2.9238
117	2.4961	3.2515
118	2.2442	3.2515
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122	3.5263	2.9238
123	3.5039	3.2515
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125	4.0525	2.9238
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132	6.0000	0.0000
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136	5.6826	0.9687
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138	5.2572	1.2925
139	5.4812	1.6177
140	5.3828	1.9430
141	5.0849	1.9430
142	5.2887	2.2695
143	5.1947	2.5960
144	4.9203	2.5960
145	5.1051	2.9238
146	5.0155	3.2515
147	4.7636	3.2515
148	1.1548	3.9095
149	1.0696	3.5805
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151	1.6161	3.9095
152	1.3854	3.9095
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154	2.0774	3.9095
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171	4.9304	3.5805

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176	1.6766	4.2395
177	1.7371	4.5696
178	1.5266	4.5696
179	2.1177	4.2395
180	2.1580	4.5696
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183	2.5790	4.5696
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186	3.0000	4.5696
187	2.7895	4.5696
188	3.4411	4.2395
189	3.4210	4.5696
190	3.2105	4.5696
191	3.8823	4.2395
192	3.8420	4.5696
193	3.6315	4.5696
194	4.3234	4.2395
195	4.2629	4.5696
196	4.0525	4.5696
197	4.7646	4.2395
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199	4.4734	4.5696
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203	1.8513	5.2319
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205	2.1961	4.9008
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225	4.3402	5.2319
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228	1.9050	5.5641
229	1.9588	5.8962
230	1.7852	5.8962
231	2.2700	5.5641
232	2.3058	5.8962
233	2.1323	5.8962
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235	2.6529	5.8962
236	2.4794	5.8962
237	3.0000	5.5641
238	3.0000	5.8962
239	2.8265	5.8962
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243	3.7300	5.5641
244	3.6942	5.8962
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256	1.9027	6.5624
257	2.3394	6.2293
258	2.3730	6.5624
259	2.2162	6.5624
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283	2.4043	6.8964

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285	2.2945	7.2304
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376	3.7010	8.3860
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378	3.5683	8.5482
379	3.9346	8.3860
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381	3.7956	8.5482
382	2.1393	8.8727
383	2.1150	8.7104
384	2.3362	8.7104
385	2.3545	8.8727
386	2.2469	8.8727
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439	2.6039	9.3602
440	2.6150	9.5228
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445	3.0000	9.3602
446	3.0000	9.5228
447	2.9037	9.5228
448	3.1980	9.3602
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451	3.3961	9.3602
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462	2.4383	9.6855
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464	2.3631	9.8483
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466	2.6361	9.8483
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468	2.8128	9.6855
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483	3.7490	9.6855
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506	3.5309	10.0111
507	3.5159	10.1740

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1 530   0.00 -144.26  2.13 0. 0. 0.

fin
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mall
coor


El resto de datos son comunes


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1 521   1.90  -26.44  2.12 0. 0. 0.
1 525   1.90  -26.44  2.12 0. 0. 0.
1 524   1.90  -26.44  2.12 0. 0. 0.
1 528   1.90  -26.44  2.12 0. 0. 0.
1 527   1.90  -26.44  2.12 0. 0. 0.
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fin
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alma
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mall
coor

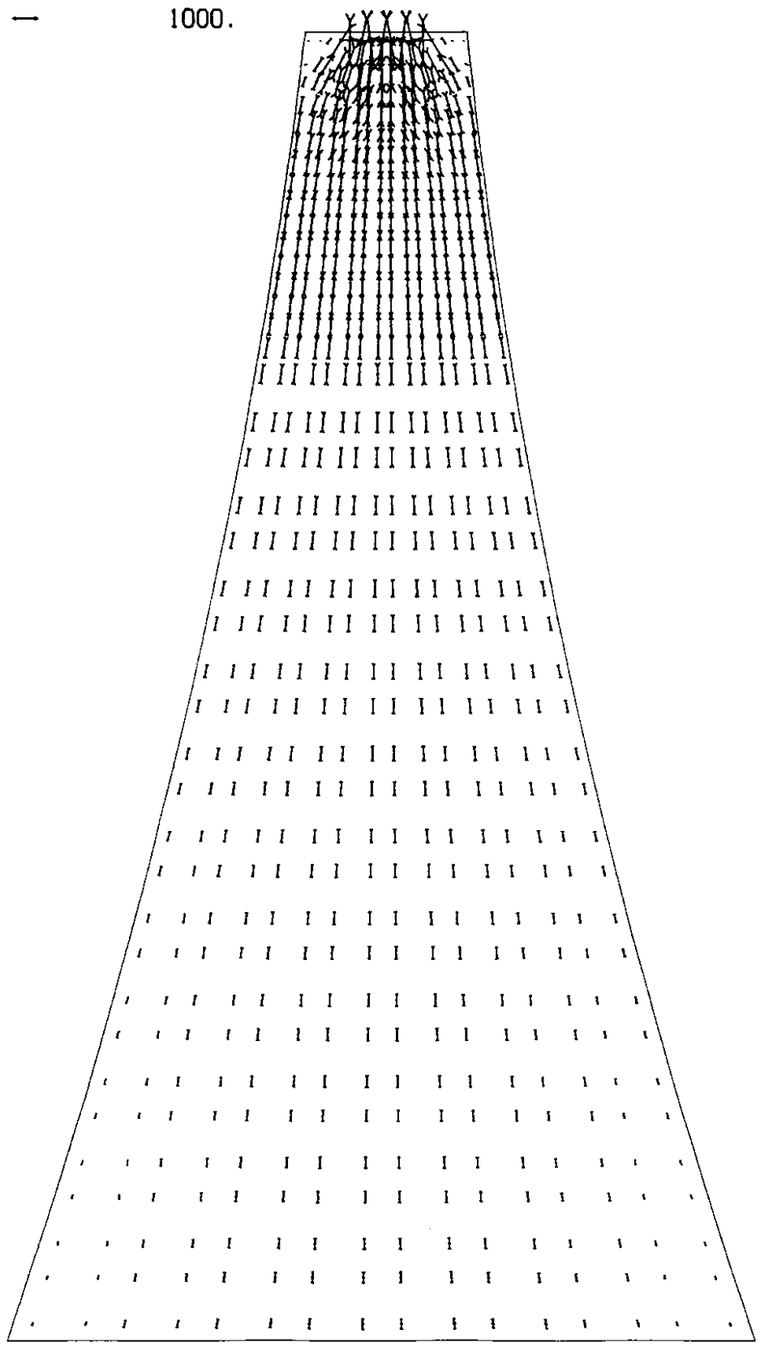

El resto de datos son comunes


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1 521   5.05  -55.93  0.00 0. 0. 0.
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1 527   5.05  -55.93  0.00 0. 0. 0.
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fin
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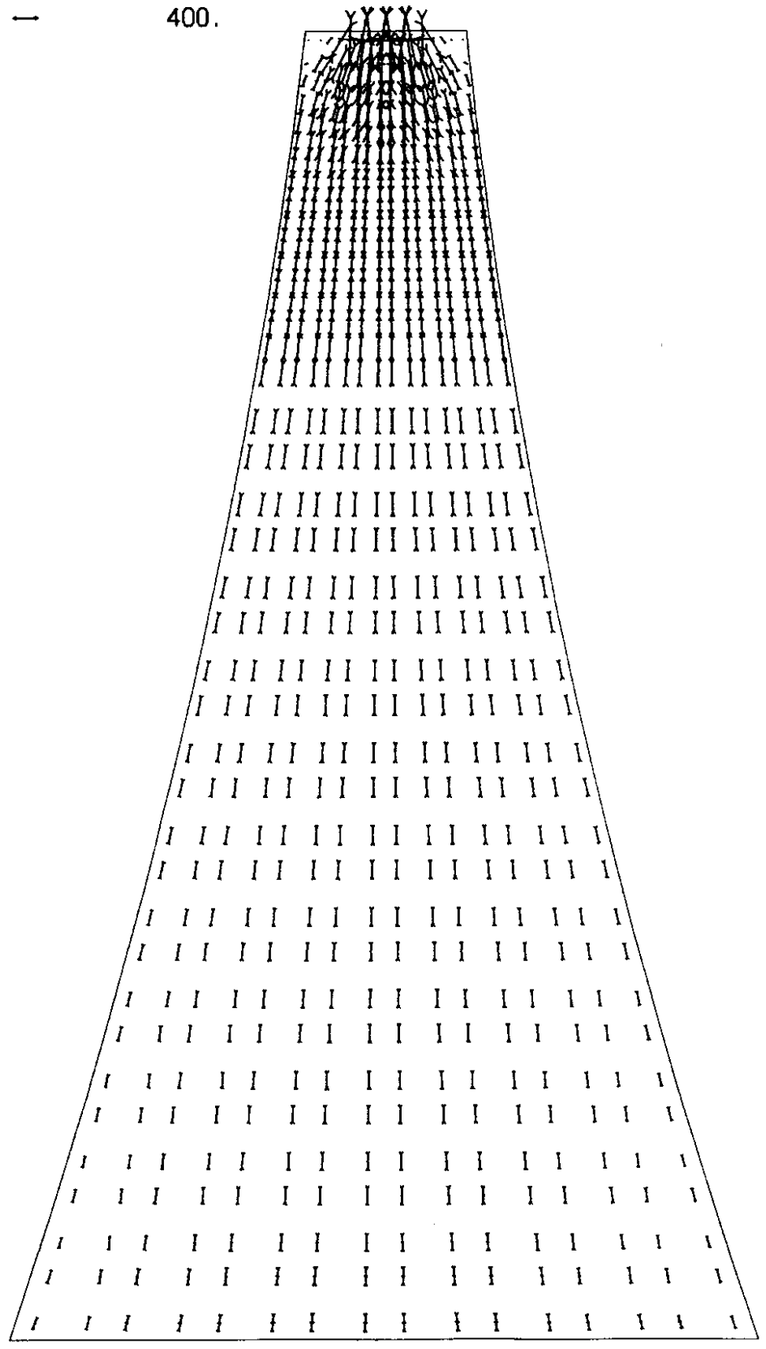
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Axiles (esfuerzos)

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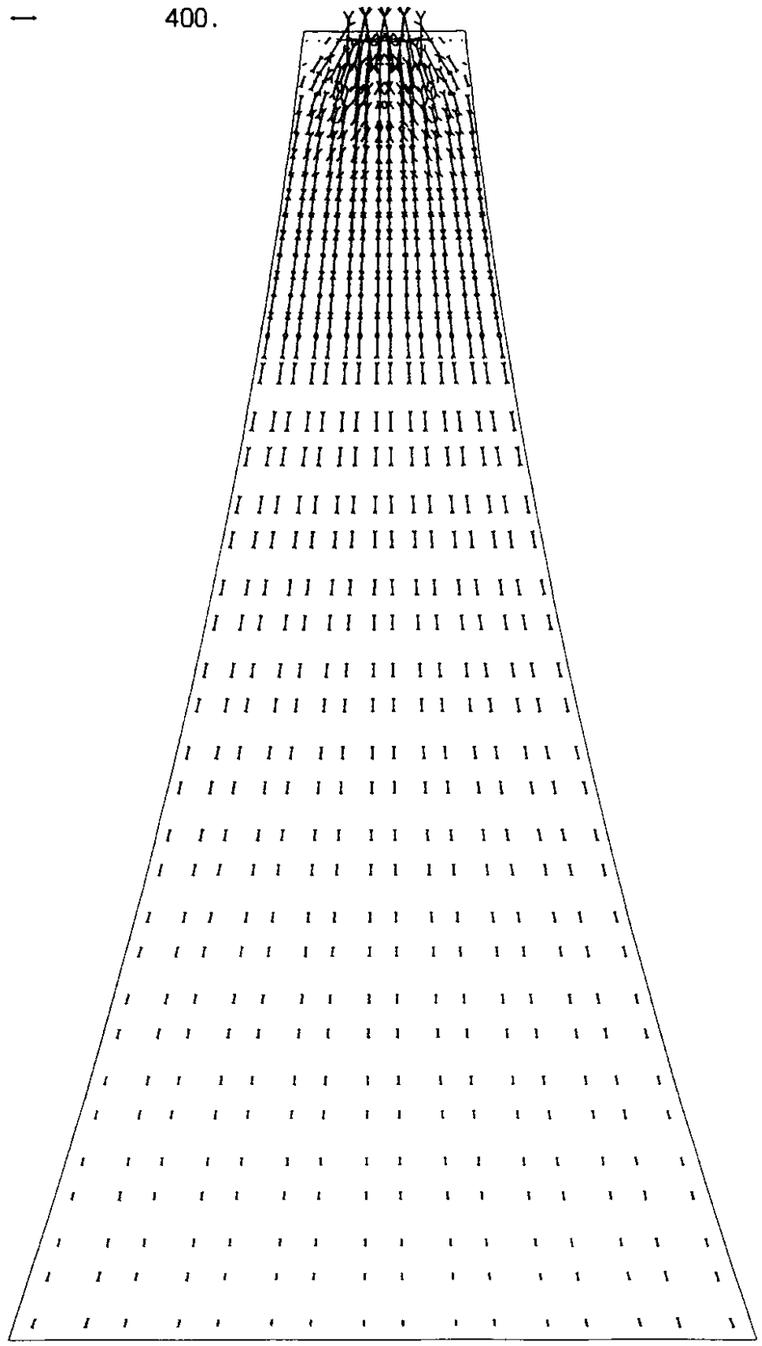
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hipo 1 Axil Maximo
Lamina (tensiones en cara superior)

400.



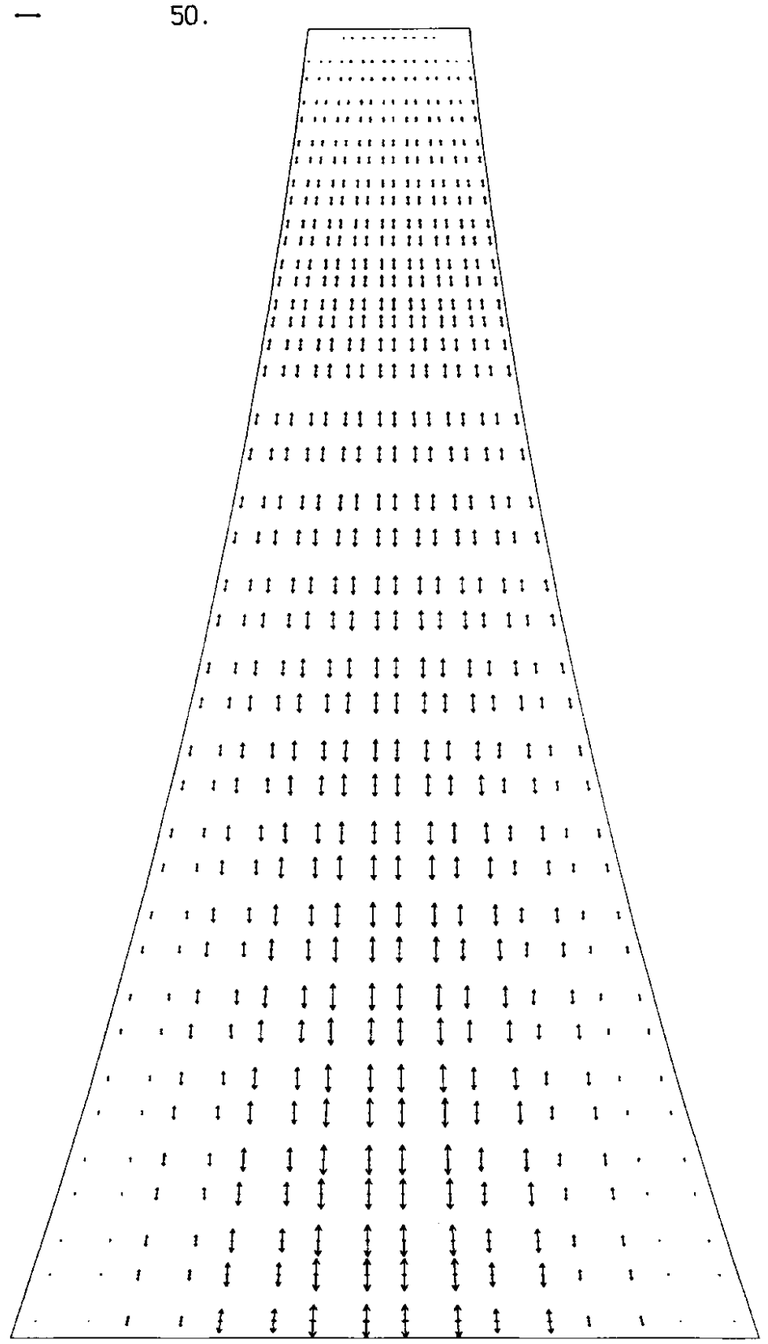
alma
hipo 1 Axil Maximo
Lamina (tensiones en cara inferior)

400.



alma
hipo 1 Axil Maximo
Momentos

— 50.



PILAS 7, 8, 11 y 12

Esfuerzos

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 316 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1921.44	38.46	0.00
512 FUER X MIN envolvente (ELU) (tota	-155.14	-34.61	97.34
513 FUER Y MAX envolvente (ELU) (tota	-401.04	-38.46	0.00
514 FUER Y MIN envolvente (ELU) (tota	-403.56	38.46	0.00
515 FUER Z MAX envolvente (ELU) (tota	-446.40	0.00	-108.12
516 FUER Z MIN envolvente (ELU) (tota	-358.19	0.00	108.15
517 MOME X MAX envolvente (ELU) (tota	-402.30	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-402.30	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-446.40	0.00	-108.12
520 MOME Y MIN envolvente (ELU) (tota	-358.19	0.00	108.15
521 MOME Z MAX envolvente (ELU) (tota	-1530.27	38.46	12.16
522 MOME Z MIN envolvente (ELU) (tota	-691.61	-38.46	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 317 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-1921.44	38.08	0.00
512 FUER X MIN envolvente (ELU) (tota	-155.87	-34.28	0.00
513 FUER Y MAX envolvente (ELU) (tota	-401.04	-38.08	0.00
514 FUER Y MIN envolvente (ELU) (tota	-403.56	38.08	0.00
515 FUER Z MAX envolvente (ELU) (tota	-402.30	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-402.30	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-402.30	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-402.30	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-755.36	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-651.56	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-1536.49	38.08	0.00
522 MOME Z MIN envolvente (ELU) (tota	-691.61	-38.08	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 318 extremo frontal P-8

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3183.62	56.65	0.00
512 FUER X MIN envolvente (ELU) (tota	-709.47	-50.99	91.77
513 FUER Y MAX envolvente (ELU) (tota	-1249.45	-56.65	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1257.70	56.65	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1364.88	0.00	-204.51
516 FUER Z MIN envolvente (ELU) (tota	-1142.27	0.00	204.50
517 MOME X MAX envolvente (ELU) (tota	-1253.57	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1253.57	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-1364.88	0.00	-204.51
520 MOME Y MIN envolvente (ELU) (tota	-1142.27	0.00	204.50
521 MOME Z MAX envolvente (ELU) (tota	-1745.26	56.65	0.00
522 MOME Z MIN envolvente (ELU) (tota	-1974.86	-56.65	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 319 extremo frontal P-8

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3183.62	60.66	0.00
512 FUER X MIN envolvente (ELU) (tota	-708.64	-54.59	0.00
513 FUER Y MAX envolvente (ELU) (tota	-1249.45	-60.66	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1257.70	60.66	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1253.57	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-1253.57	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-1253.57	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1253.57	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-2044.00	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-1521.96	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-1745.26	60.66	0.00
522 MOME Z MIN envolvente (ELU) (tota	-1974.86	-60.66	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 324 extremo frontal P-11

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3616.84	68.48	0.00
512 FUER X MIN envolvente (ELU) (tota	-947.69	-61.63	129.87
513 FUER Y MAX envolvente (ELU) (tota	-1398.80	-68.48	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1407.58	68.48	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1533.89	0.00	-256.63
516 FUER Z MIN envolvente (ELU) (tota	-1272.48	0.00	256.64
517 MOME X MAX envolvente (ELU) (tota	-1403.19	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1403.19	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-1533.89	0.00	-256.63
520 MOME Y MIN envolvente (ELU) (tota	-1272.48	0.00	256.64
521 MOME Z MAX envolvente (ELU) (tota	-2461.68	68.48	0.00
522 MOME Z MIN envolvente (ELU) (tota	-2093.12	-68.48	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 325 extremo frontal P-11

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3616.84	73.69	0.00
512 FUER X MIN envolvente (ELU) (tota	-947.61	-66.33	0.00
513 FUER Y MAX envolvente (ELU) (tota	-1398.80	-73.69	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1407.58	73.69	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1403.19	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-1403.19	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-1403.19	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1403.19	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-2244.36	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-1760.84	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-2461.68	73.69	0.00
522 MOME Z MIN envolvente (ELU) (tota	-2093.12	-73.69	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 326 extremo frontal P-12

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3823.74	-88.40	0.00
512 FUER X MIN envolvente (ELU) (tota	-747.81	79.56	182.13
513 FUER Y MAX envolvente (ELU) (tota	-1430.28	-88.40	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1241.54	88.40	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1448.71	0.00	-202.38
516 FUER Z MIN envolvente (ELU) (tota	-1223.12	0.00	202.36
517 MOME X MAX envolvente (ELU) (tota	-1335.91	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1335.91	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-1448.71	0.00	-202.38
520 MOME Y MIN envolvente (ELU) (tota	-1223.12	0.00	202.36
521 MOME Z MAX envolvente (ELU) (tota	-1758.71	88.40	0.00
522 MOME Z MIN envolvente (ELU) (tota	-3068.22	-88.40	0.00

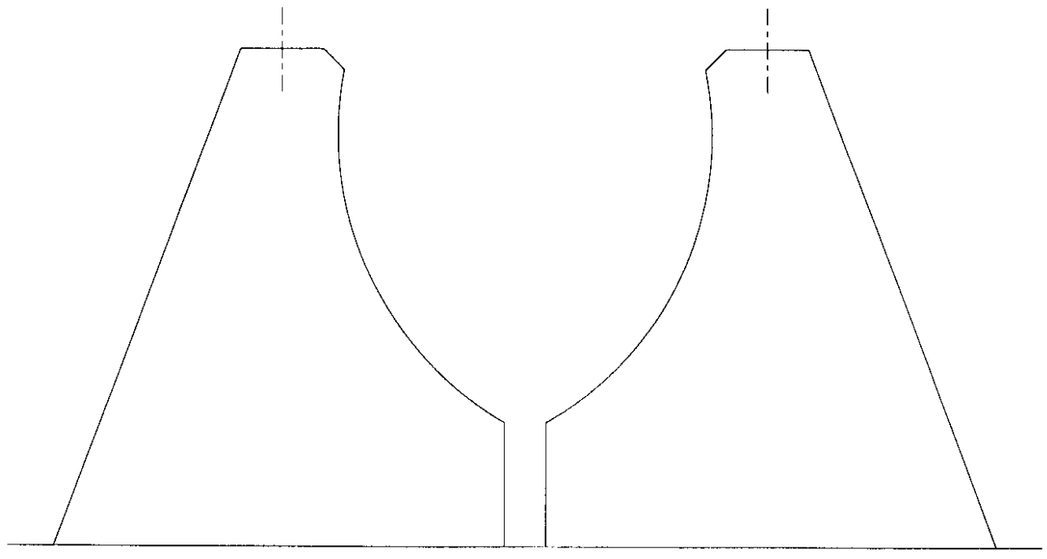
proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 327 extremo frontal P-12

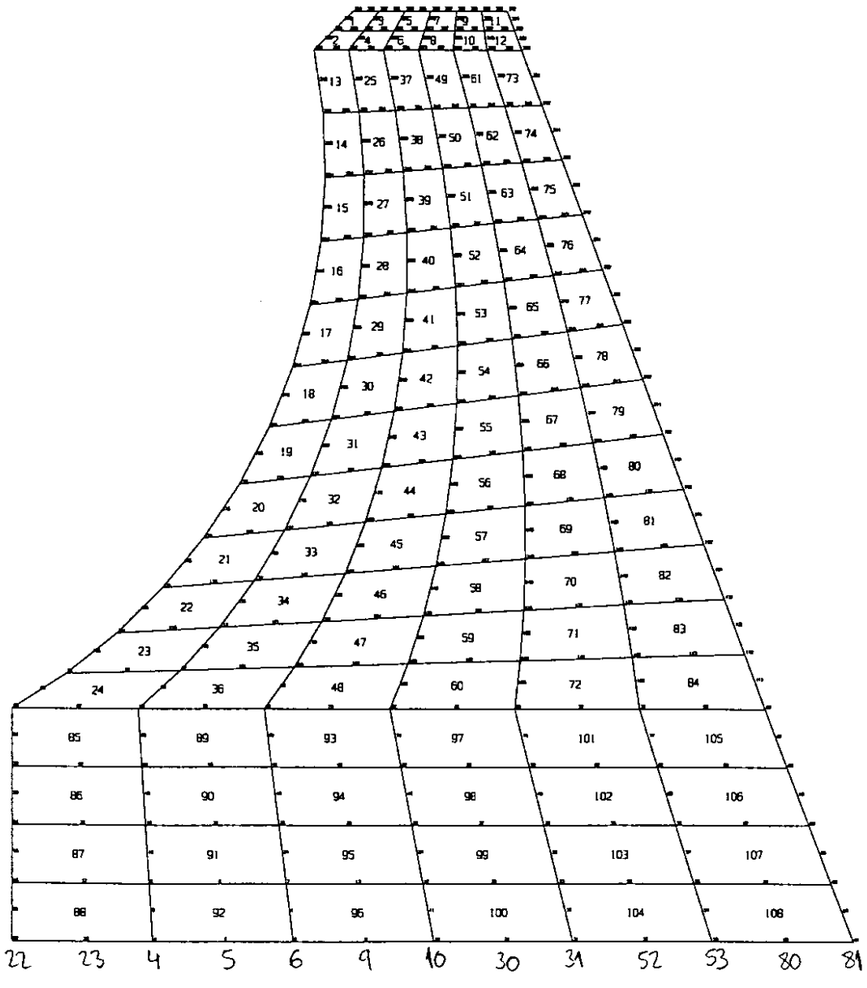
coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-3823.74	-84.40	0.00
512 FUER X MIN envolvente (ELU) (tota	-749.54	75.96	0.00
513 FUER Y MAX envolvente (ELU) (tota	-1430.28	-84.40	0.00
514 FUER Y MIN envolvente (ELU) (tota	-1241.54	84.40	0.00
515 FUER Z MAX envolvente (ELU) (tota	-1335.91	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-1335.91	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-1335.91	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-1335.91	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-2151.49	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-2682.53	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-1758.71	84.40	0.00
522 MOME Z MIN envolvente (ELU) (tota	-3068.22	-84.40	0.00

Listado de datos



elef (Pilas 7, 8, 11 y 12)
Malla



CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

Espesores de los elementos

Nº Elem	Espesor	Nº Elem	Espesor	Nº Elem	Espesor
1	3,27	37	3,07	73	2,54
2	3,34	38	3,02	74	2,43
3	3,16	39	2,98	75	2,32
4	3,21	40	2,96	76	2,21
5	3,04	41	2,96	77	2,10
6	3,08	42	2,97	78	1,99
7	2,91	43	3,00	79	1,88
8	2,93	44	3,04	80	1,77
9	2,78	45	3,10	81	1,66
10	2,77	46	3,17	82	1,56
11	2,63	47	3,25	83	1,45
12	2,61	48	3,34	84	1,35
13	3,35	49	2,91	85	3,95
14	3,33	50	2,84	86	3,95
15	3,32	51	2,78	87	3,94
16	3,34	52	2,74	88	3,94
17	3,38	53	2,70	89	3,73
18	3,43	54	2,68	90	3,72
19	3,51	55	2,67	91	3,71
20	3,59	56	2,68	92	3,70
21	3,68	57	2,69	93	3,36
22	3,77	58	2,73	94	3,32
23	3,85	59	2,77	95	3,29
24	3,92	60	2,82	96	3,25
25	3,22	61	2,73	97	2,81
26	3,18	62	2,64	98	2,75
27	3,16	63	2,56	99	2,68
28	3,16	64	2,49	100	2,62
29	3,18	65	2,42	101	2,10
30	3,22	66	2,35	102	1,99
31	3,27	67	2,30	103	1,88
32	3,34	68	2,25	104	1,77
33	3,43	69	2,22	105	1,20
34	3,52	70	2,19	106	1,04
35	3,61	71	2,17	107	0,88
36	3,70	72	2,16	108	0,71

PILAS 7, 8, 11 y 12

Son apoyos (empotramientos) los nudos:

22; 23; 4; 5; 6; 9; 10, 30, 31, 52; 53; 80, 81

Las cargas las repartimos entre los nudos:

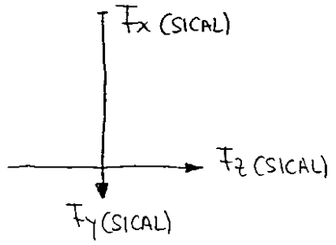
357, 361, 360, 364, 363, 367, 366, 370, 369

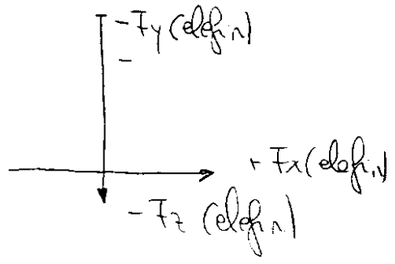
f_x (elefin) = $\frac{1}{9}$ f_z (sical)

f_y (elefin) = $\frac{1}{9}$ f_x (sical)

f_z (elefin) = $\frac{1}{9}$ f_y (sical)

Equivalencia de signos





ACCIONES EN EL MODELO (Pila 7)

SICAL			ELEFIN		
Fx	Fy	Fz	fx	fy	fz
1921,44	38,46	0,00	0,0	213,49	4,27
155,14	34,61	97,34	10,82	17,24	3,85
358,19	0,00	108,15	12,02	39,80	0,00

(Pila 8)

SICAL			ELEFIN		
Fx	Fy	Fz	fx	fy	fz
3183,62	56,65	0,00	0,0	353,74	6,29
709,47	50,99	91,77	10,20	78,83	5,67
1142,27	0,00	204,50	22,72	126,92	0,00

ACCIONES EN EL MODELO (Caso 11)

AXIAL

FLECTOR

AXIAL

FLECTOR

		0.00	0.00	424,86	9.82
				83,09	
				135,90	

```
elef
  373  108  108    3    6    8 1
mall
coor
     1       3.5762       0.3750
     2       1.7646       0.7500
     3       1.7881       0.3750
     4       1.8117       0.0000
     5       2.7175       0.0000
     6       3.6233       0.0000
     7       3.5292       0.7500
     8       2.6469       0.7500
     9       4.5292       0.0000
    10       5.4350       0.0000
    11       5.3644       0.3750
    12       5.2937       0.7500
    13       4.4115       0.7500
    14       0.0000       1.5000
    15       0.0000       1.1250
    16       0.0000       0.7500
    17       0.8823       0.7500
    18       1.7410       1.1250
    19       1.7175       1.5000
    20       0.8587       1.5000
    21       0.0000       0.3750
    22       0.0000       0.0000
    23       0.9058       0.0000
    24       3.4821       1.1250
    25       3.4350       1.5000
    26       2.5762       1.5000
    27       5.2231       1.1250
    28       5.1525       1.5000
    29       4.2937       1.5000
    30       6.3408       0.0000
    31       7.2467       0.0000
    32       7.1525       0.3750
    33       7.0583       0.7500
    34       6.1760       0.7500
    35       6.9642       1.1250
    36       6.8700       1.5000
    37       6.0112       1.5000
    38       0.0000       2.2500
    39       0.0000       1.8750
    40       1.6940       1.8750
    41       1.6704       2.2500
    42       0.8352       2.2500
    43       3.3879       1.8750
    44       3.3408       2.2500
    45       2.5056       2.2500
    46       5.0819       1.8750
    47       5.0112       2.2500
    48       4.1760       2.2500
    49       6.7758       1.8750
    50       6.6817       2.2500
    51       5.8465       2.2500
```

52	8.1525	0.0000
53	9.0583	0.0000
54	8.9406	0.3750
55	8.8229	0.7500
56	7.9406	0.7500
57	8.7052	1.1250
58	8.5875	1.5000
59	7.7287	1.5000
60	8.4698	1.8750
61	8.3521	2.2500
62	7.5169	2.2500
63	0.0000	3.0000
64	0.0000	2.6250
65	1.6469	2.6250
66	1.6233	3.0000
67	0.8117	3.0000
68	3.2937	2.6250
69	3.2467	3.0000
70	2.4350	3.0000
71	4.9406	2.6250
72	4.8700	3.0000
73	4.0583	3.0000
74	6.5875	2.6250
75	6.4933	3.0000
76	5.6817	3.0000
77	8.2344	2.6250
78	8.1167	3.0000
79	7.3050	3.0000
80	9.9642	0.0000
81	10.8700	0.0000
82	10.7287	0.3750
83	10.5875	0.7500
84	9.7052	0.7500
85	10.4462	1.1250
86	10.3050	1.5000
87	9.4462	1.5000
88	10.1637	1.8750
89	10.0225	2.2500
90	9.1873	2.2500
91	9.8812	2.6250
92	9.7400	3.0000
93	8.9283	3.0000
94	0.6965	3.4511
95	0.3483	3.2256
96	1.8955	3.2470
97	2.1676	3.4940
98	1.4321	3.4725
99	3.4410	3.2684
100	3.6354	3.5368
101	2.9015	3.5154
102	4.9849	3.2899
103	5.0998	3.5797
104	4.3676	3.5583
105	6.5271	3.3113
106	6.5610	3.6226
107	5.8304	3.6012
108	8.0677	3.3327
109	8.0187	3.6655
110	7.2898	3.6440
111	9.6066	3.3542
112	9.4732	3.7083
113	8.7460	3.6869
114	1.3426	3.9719
115	1.0196	3.7115
116	2.4165	3.7700
117	2.6654	4.0461
118	2.0040	4.0090
119	3.8094	3.8285
120	3.9833	4.1202
121	3.3244	4.0831
122	5.1981	3.8870
123	5.2964	4.1943
124	4.6399	4.1572
125	6.5828	3.9455
126	6.6046	4.2684
127	5.9505	4.2314
128	7.9633	4.0040
129	7.9079	4.3425
130	7.2563	4.3055
131	9.3398	4.0625
132	9.2064	4.4167
133	8.5572	4.3796
134	1.9312	4.5569
135	1.6369	4.2644
136	2.8885	4.3488
137	3.1116	4.6516
138	2.5214	4.6042
139	4.1352	4.4332
140	4.2871	4.7463
141	3.6994	4.6989
142	5.3770	4.5176
143	5.4577	4.8410
144	4.8724	4.7936
145	6.6139	4.6020
146	6.6232	4.9356
147	6.0404	4.8883
148	7.8459	4.6864
149	7.7839	5.0303
150	7.2036	4.9830
151	9.0730	4.7708
152	8.9396	5.1250
153	8.3617	5.0777
154	2.4561	5.1997
155	2.1936	4.8783
156	3.3068	4.9784
157	3.5020	5.3053
158	2.9790	5.2525
159	4.4155	5.0786
160	4.5440	5.4109
161	4.0230	5.3581
162	5.5199	5.1787
163	5.5821	5.5165

164	5.0630	5.4637
165	6.6197	5.2789
166	6.6162	5.6221
167	6.0991	5.5693
168	7.7152	5.3790
169	7.6465	5.7277
170	7.1313	5.6749
171	8.8062	5.4792
172	8.6728	5.8333
173	8.1596	5.7805
174	2.9115	5.8934
175	2.6838	5.5465
176	3.6673	5.6534
177	3.8326	6.0014
178	3.3721	5.9474
179	4.6478	5.7602
180	4.7516	6.1095
181	4.2921	6.0555
182	5.6252	5.8670
183	5.6684	6.2175
184	5.2100	6.1635
185	6.5996	5.9738
186	6.5831	6.3256
187	6.1257	6.2716
188	7.5710	6.0807
189	7.4956	6.4336
190	7.0393	6.3796
191	8.5394	6.1875
192	8.4060	6.5417
193	7.9508	6.4876
194	3.2926	6.6305
195	3.1021	6.2620
196	3.9665	6.3676
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246	6.3268	8.5121
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252	7.6056	8.6667
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62	62	306	305	286	290	289	308	309	310
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84	84	109	108	78	93	92	111	112	113
85	85	63	64	38	42	41	65	66	67
86	86	38	39	14	20	19	40	41	42
87	87	14	15	16	17	2	18	19	20
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92	92	2	3	4	5	6	1	7	8
93	93	69	68	44	48	47	71	72	73
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95	95	25	24	7	13	12	27	28	29
96	96	7	1	6	9	10	11	12	13
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98	98	47	46	28	37	36	49	50	51
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102	102	50	49	36	59	58	60	61	62
103	103	36	35	33	56	55	57	58	59
104	104	33	32	31	52	53	54	55	56
105	105	78	77	61	90	89	91	92	93
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108	108	55	54	53	80	81	82	83	84

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apoy
22 1 1 1 1 1 1
23 1 1 1 1 1 1
 4 1 1 1 1 1 1
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 6 1 1 1 1 1 1
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10 1 1 1 1 1 1
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80 1 1 1 1 1 1
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hipo  1 Axil Maximo
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1 361   0.00 -213.49  4.27 0. 0. 0.
1 360   0.00 -213.49  4.27 0. 0. 0.
1 364   0.00 -213.49  4.27 0. 0. 0.
1 363   0.00 -213.49  4.27 0. 0. 0.
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1 367   0.00 -213.49  4.27 0. 0. 0.
1 366   0.00 -213.49  4.27 0. 0. 0.
1 370   0.00 -213.49  4.27 0. 0. 0.
1 369   0.00 -213.49  4.27 0. 0. 0.

fin
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alma
  373  108  108    3    6    8 1
mall
coor



El resto de datos son comunes



hipo  2 Axil Minimo
1 357  10.82  -17.24  3.85 0. 0. 0.
1 361  10.82  -17.24  3.85 0. 0. 0.
1 360  10.82  -17.24  3.85 0. 0. 0.
1 364  10.82  -17.24  3.85 0. 0. 0.
1 363  10.82  -17.24  3.85 0. 0. 0.
1 367  10.82  -17.24  3.85 0. 0. 0.
1 366  10.82  -17.24  3.85 0. 0. 0.
1 370  10.82  -17.24  3.85 0. 0. 0.
1 369  10.82  -17.24  3.85 0. 0. 0.

fin
```

```
alma
  373  108  108    3    6    8 1
mall
coor
```

El resto de datos son comunes

```
hipo  3 Flec Minimo
1 357  12.02  -39.80  0.00 0. 0. 0.
1 361  12.02  -39.80  0.00 0. 0. 0.
1 360  12.02  -39.80  0.00 0. 0. 0.
1 364  12.02  -39.80  0.00 0. 0. 0.
1 363  12.02  -39.80  0.00 0. 0. 0.
1 367  12.02  -39.80  0.00 0. 0. 0.
1 366  12.02  -39.80  0.00 0. 0. 0.
1 370  12.02  -39.80  0.00 0. 0. 0.
1 369  12.02  -39.80  0.00 0. 0. 0.
fin
```

```
alma
  373  108  108    3    6    8 1
mall
coor
```

El resto de datos son comunes

```
hipo 11 Axil Maximo
1 357   0.00 -424.86  9.82 0. 0. 0.
1 361   0.00 -424.86  9.82 0. 0. 0.
1 360   0.00 -424.86  9.82 0. 0. 0.
1 364   0.00 -424.86  9.82 0. 0. 0.
1 363   0.00 -424.86  9.82 0. 0. 0.
1 367   0.00 -424.86  9.82 0. 0. 0.
1 366   0.00 -424.86  9.82 0. 0. 0.
1 370   0.00 -424.86  9.82 0. 0. 0.
1 369   0.00 -424.86  9.82 0. 0. 0.
fin
```

```
alma
  373  108  108    3    6    8 1
mall
coor



El resto de datos son comunes



hipo 12 Axil Minimo
1 357  20.24  -83.09  8.84 0. 0. 0.
1 361  20.24  -83.09  8.84 0. 0. 0.
1 360  20.24  -83.09  8.84 0. 0. 0.
1 364  20.24  -83.09  8.84 0. 0. 0.
1 363  20.24  -83.09  8.84 0. 0. 0.
1 367  20.24  -83.09  8.84 0. 0. 0.
1 366  20.24  -83.09  8.84 0. 0. 0.
1 370  20.24  -83.09  8.84 0. 0. 0.
1 369  20.24  -83.09  8.84 0. 0. 0.
fin
```

```
alma
  373  108  108    3    6    8 1
mall
coor



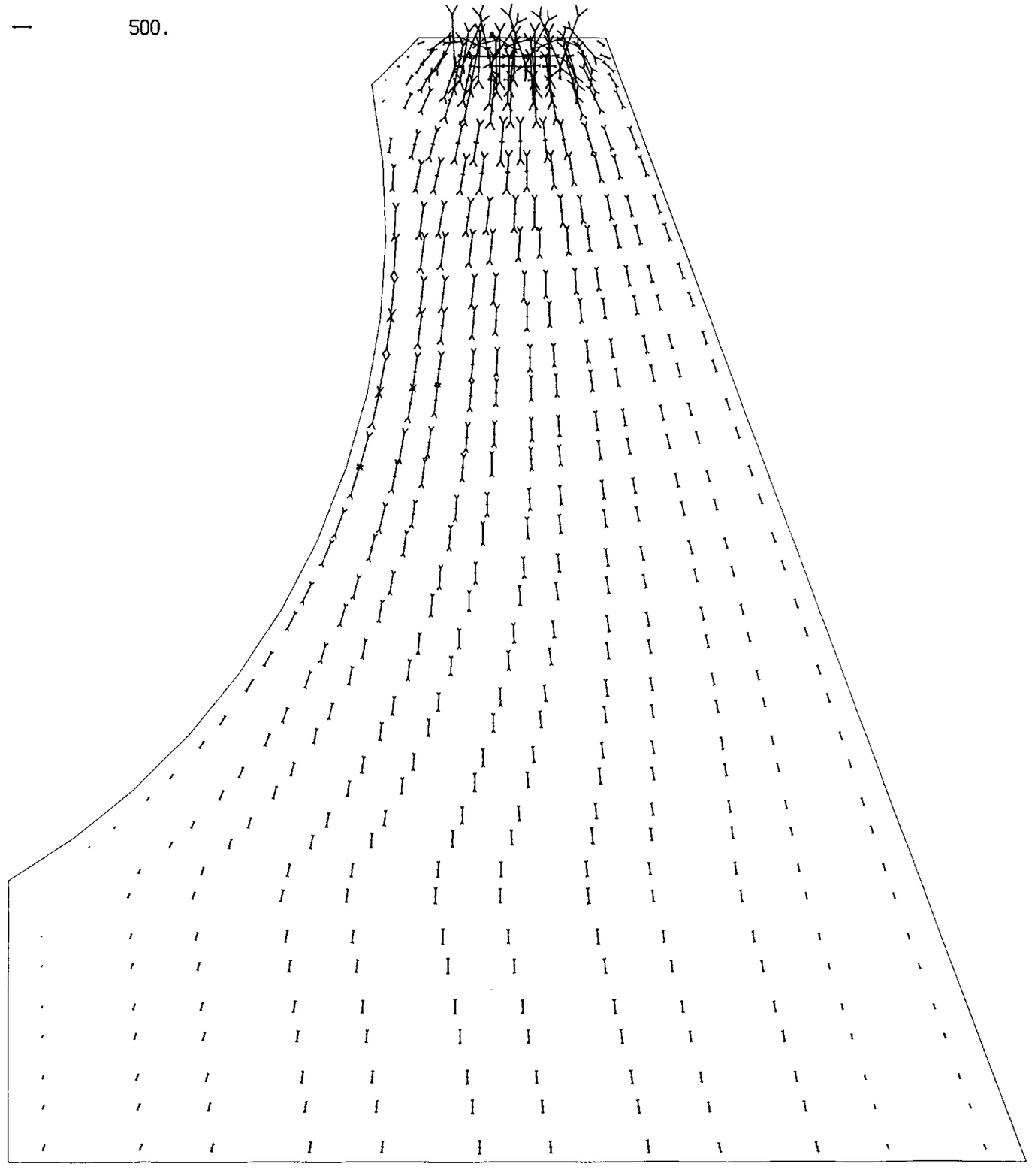
El resto de datos son comunes



hipo 13 Flec Minimo
1 357  22.48 -135.90  0.00 0. 0. 0.
1 361  22.48 -135.90  0.00 0. 0. 0.
1 360  22.48 -135.90  0.00 0. 0. 0.
1 364  22.48 -135.90  0.00 0. 0. 0.
1 363  22.48 -135.90  0.00 0. 0. 0.
1 367  22.48 -135.90  0.00 0. 0. 0.
1 366  22.48 -135.90  0.00 0. 0. 0.
1 370  22.48 -135.90  0.00 0. 0. 0.
1 369  22.48 -135.90  0.00 0. 0. 0.
fin
```

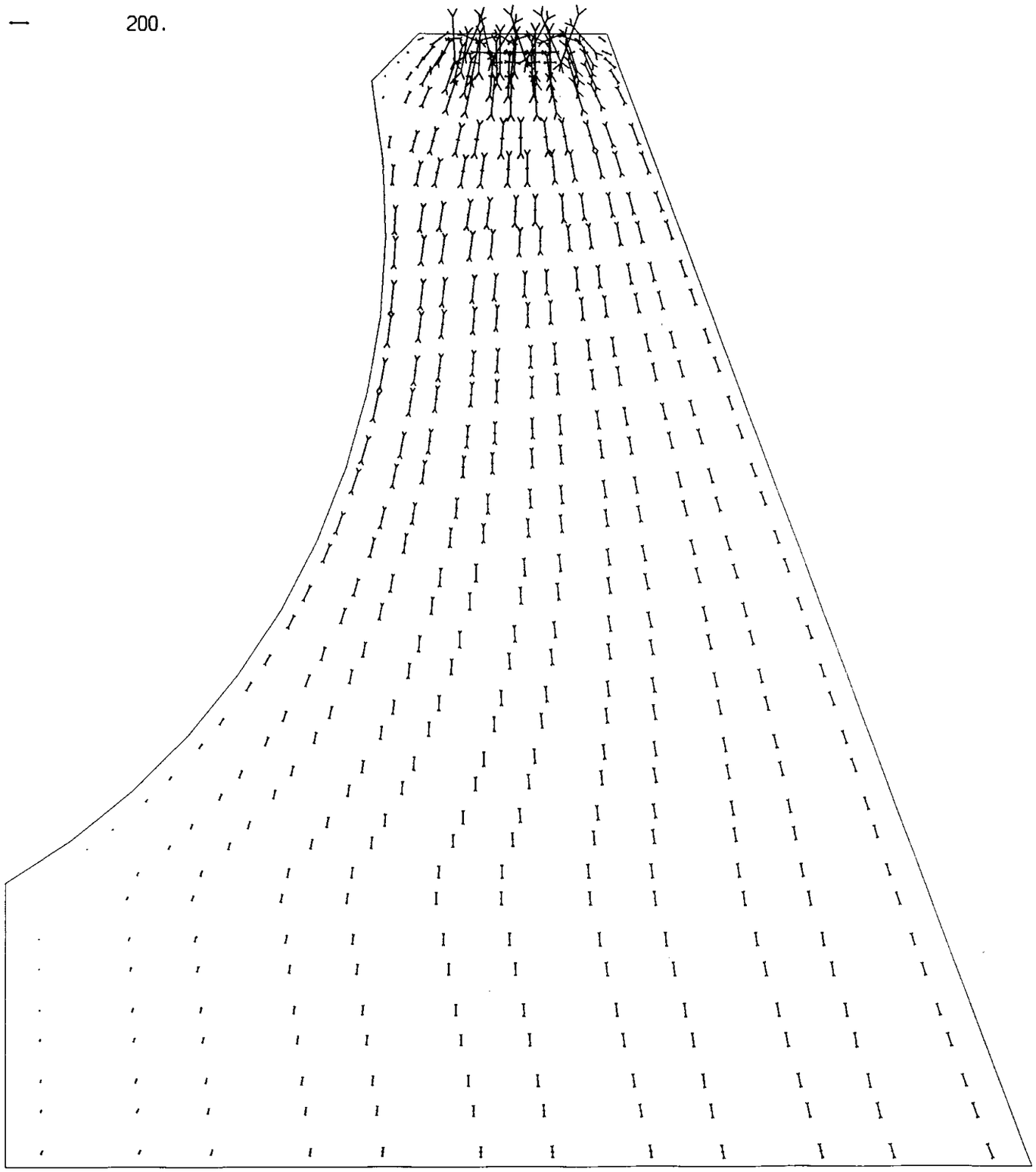
PILA-7
hipo 1 Axil Maximo
Axiles (esfuerzos)

— 500.



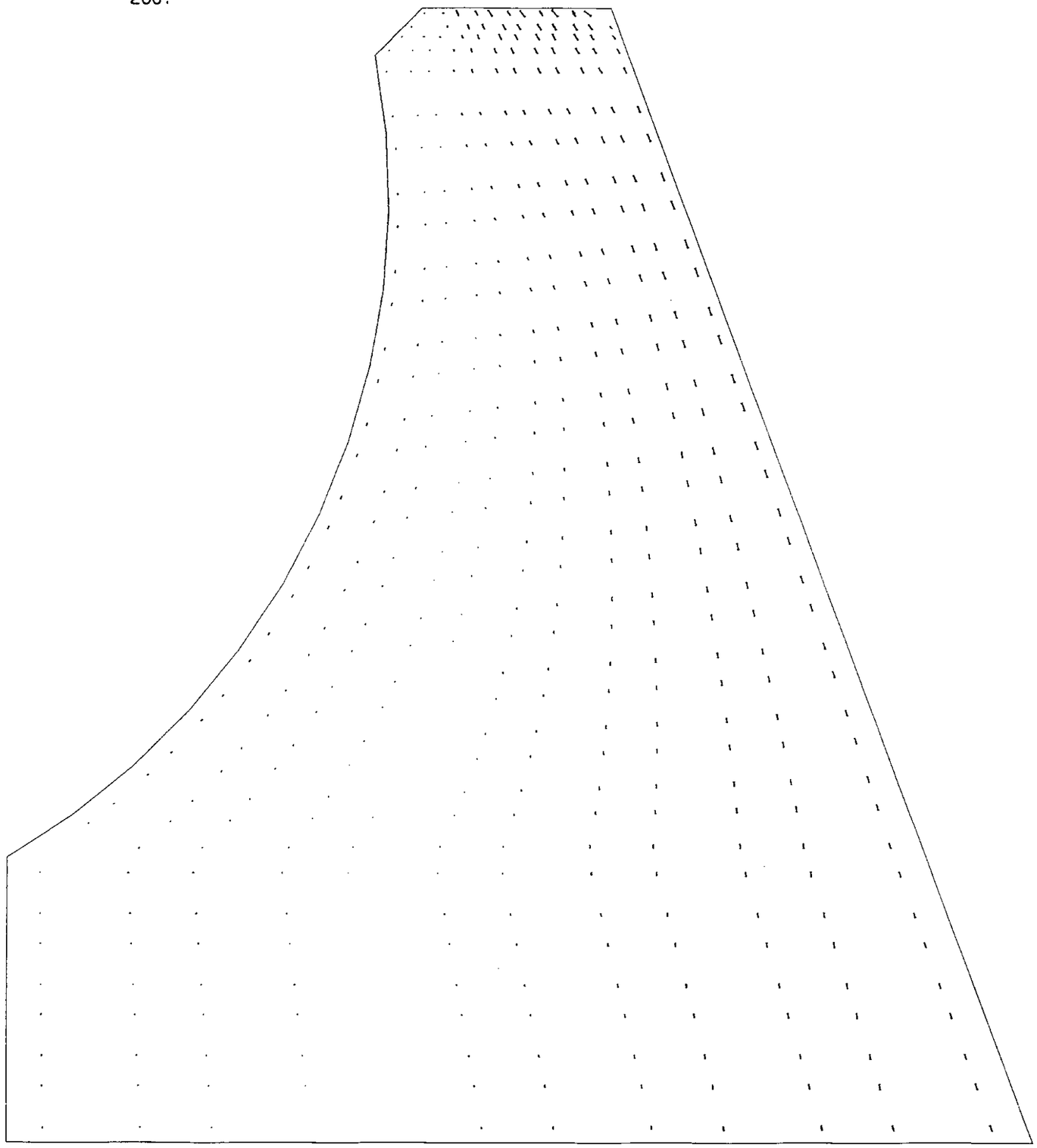
PILA-7
hipo 1 Axil Maximo
Axiles (Tensiones)

— 200.



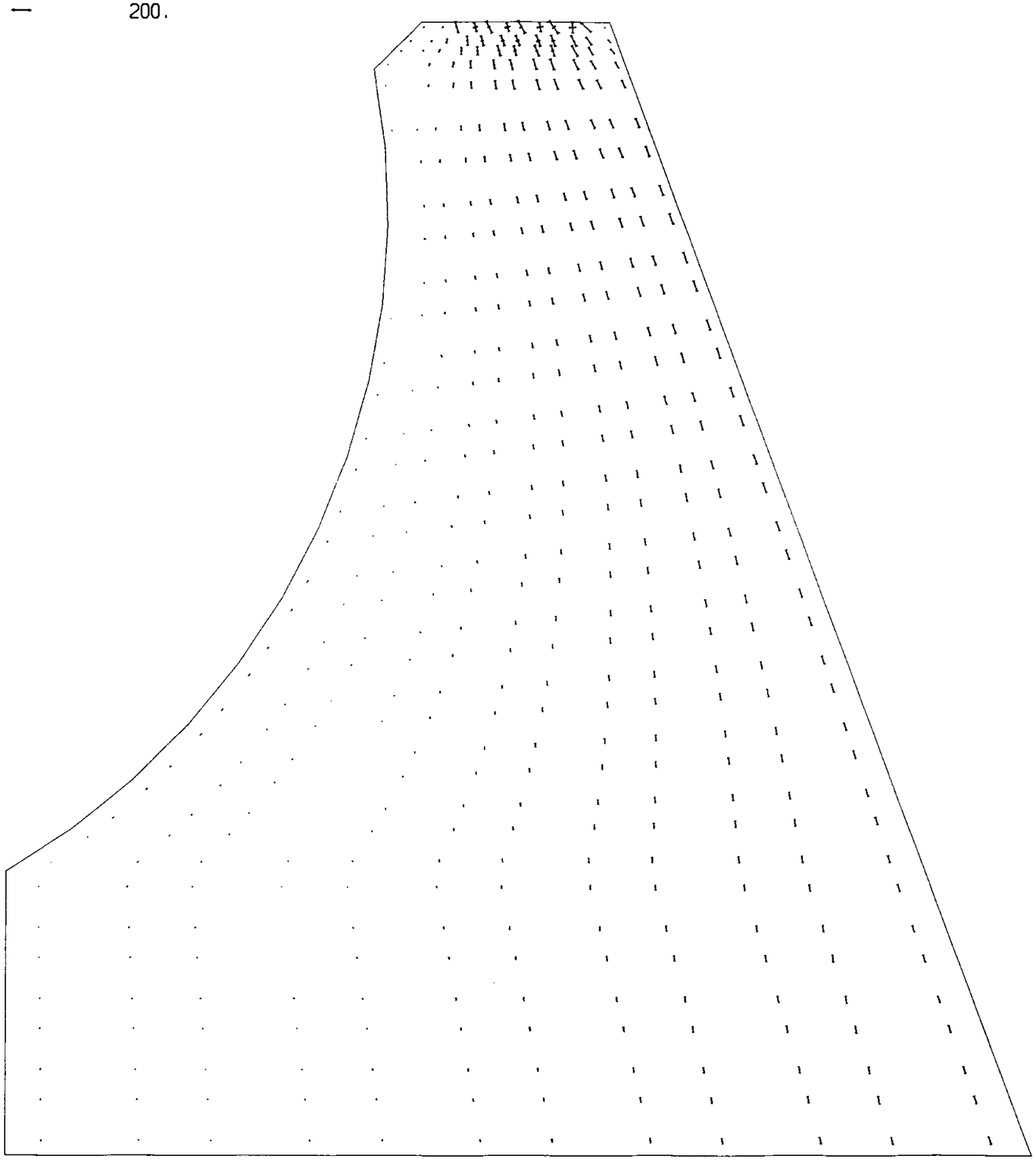
alma PILA-7
hipo 2 Axil Minimo
Axiles (Tensiones)

— 200.



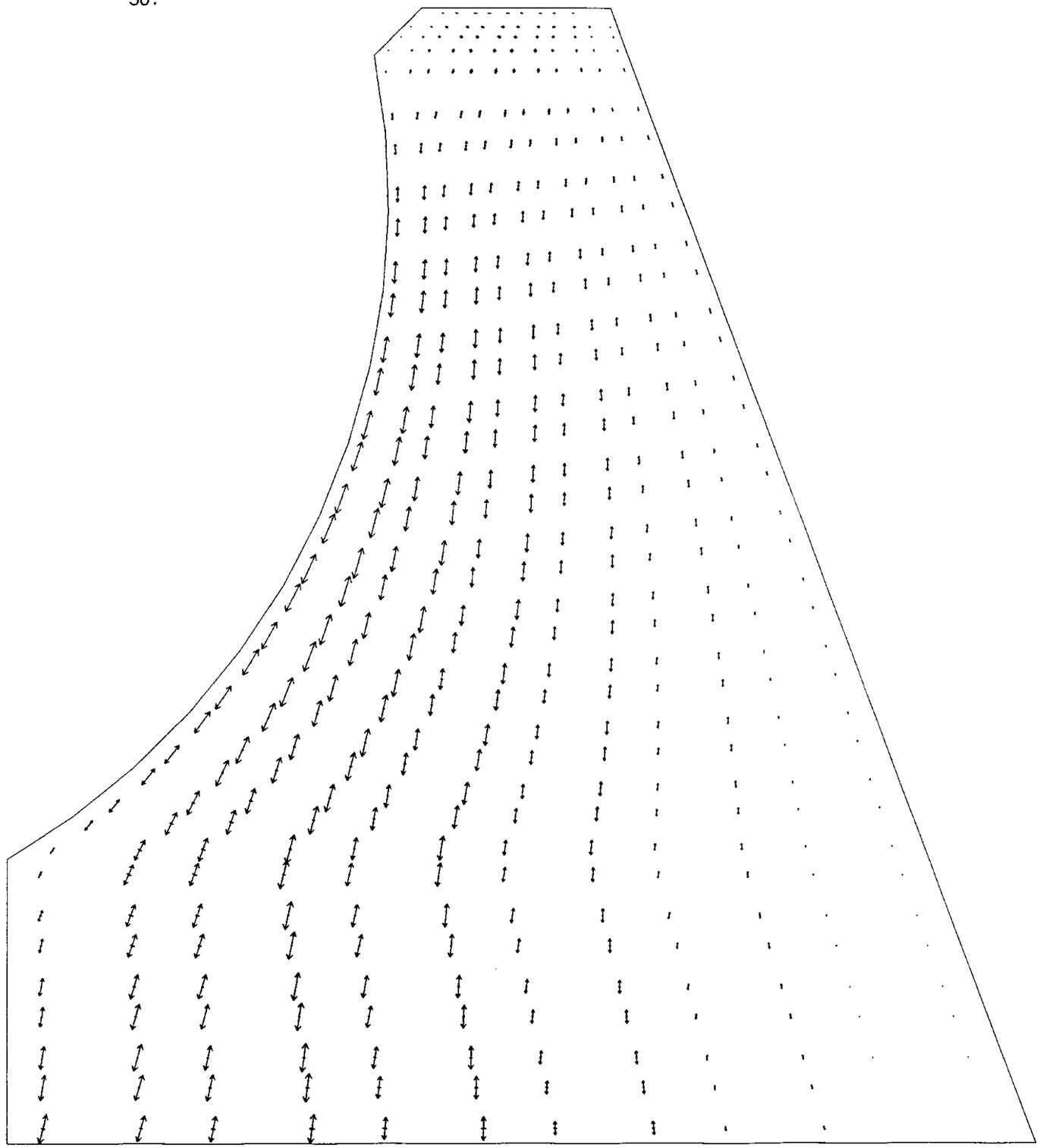
PILA-7
hipo 3 Flec Minimo
Axiles (Tensiones)

— 200.



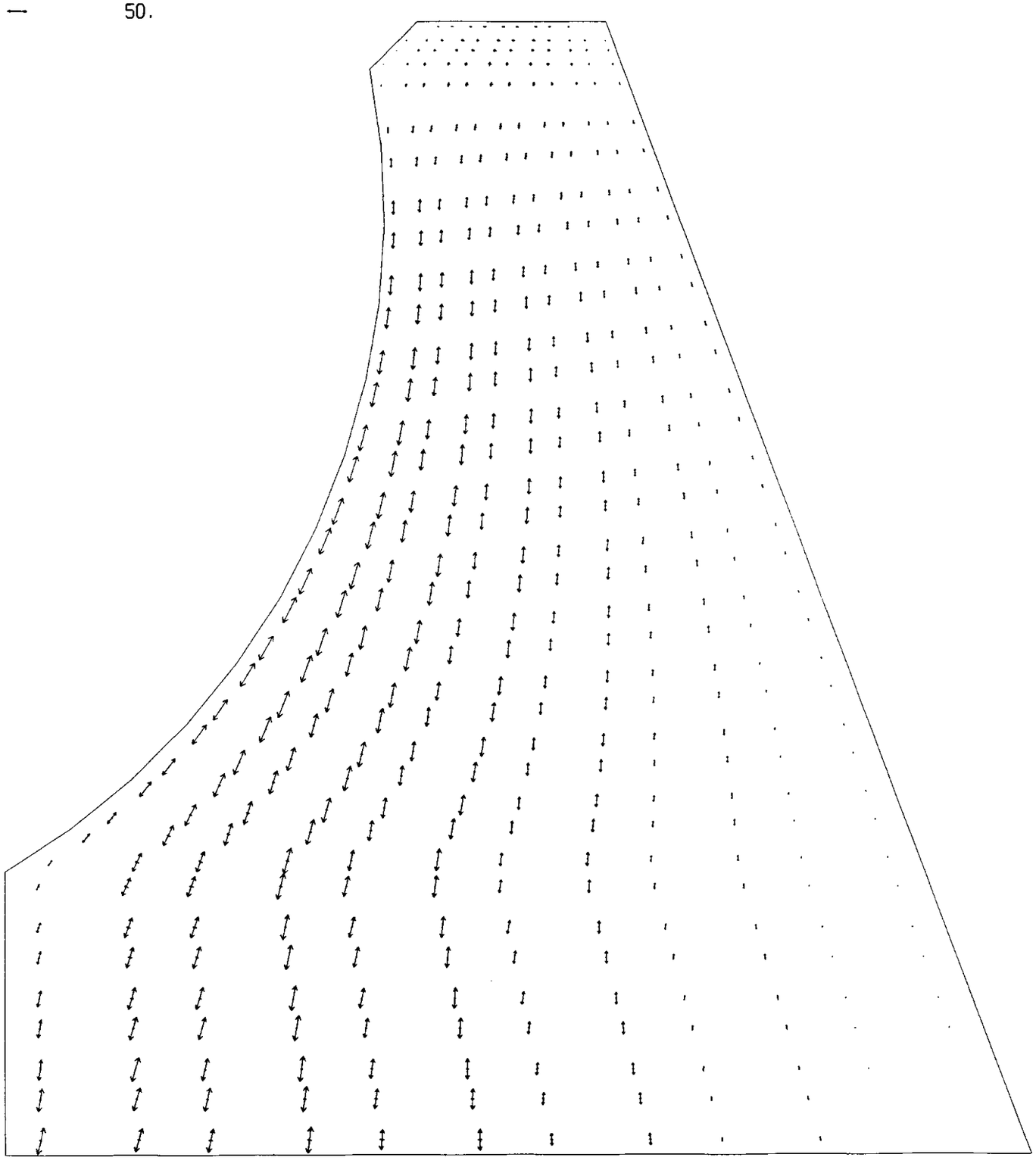
PILA-7
hipo 1 Axil Maximo
Momentos

— 50.



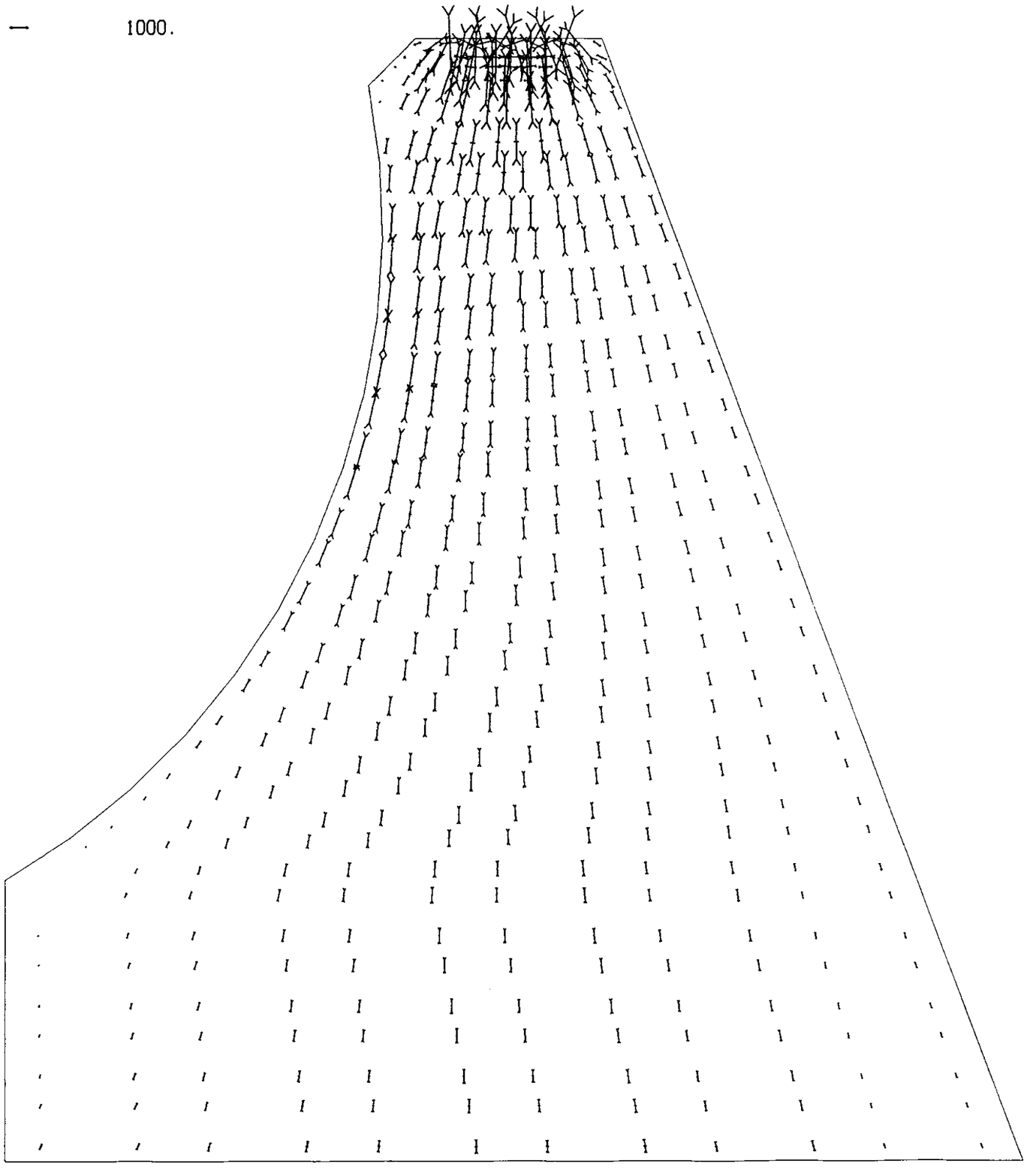
PILA-7
hipo 2 Axil Minimo
Momentos

— 50.



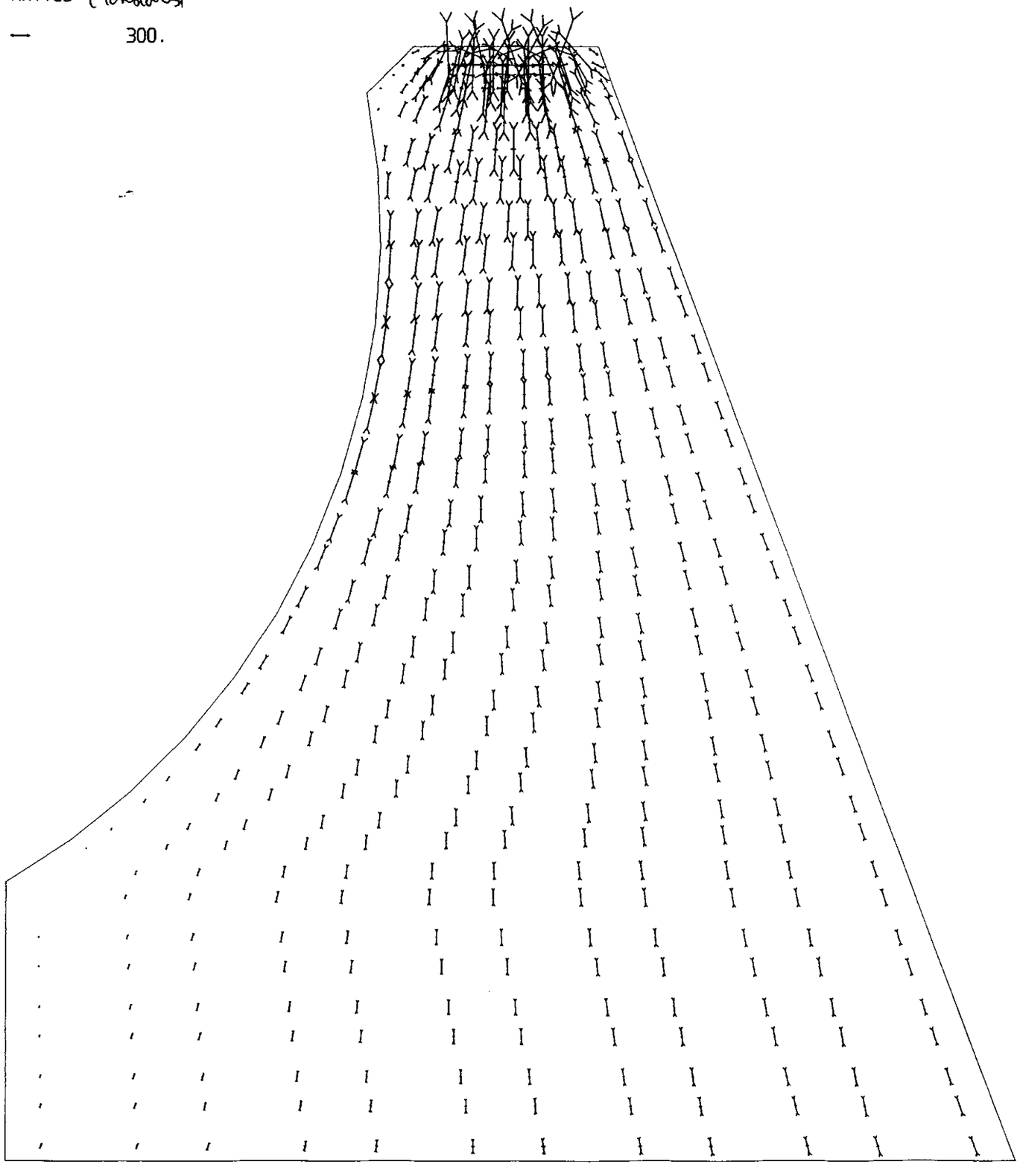
PILA-12
hipo 11 Axil Maximo
Axiles (esfuerzos)

— 1000.



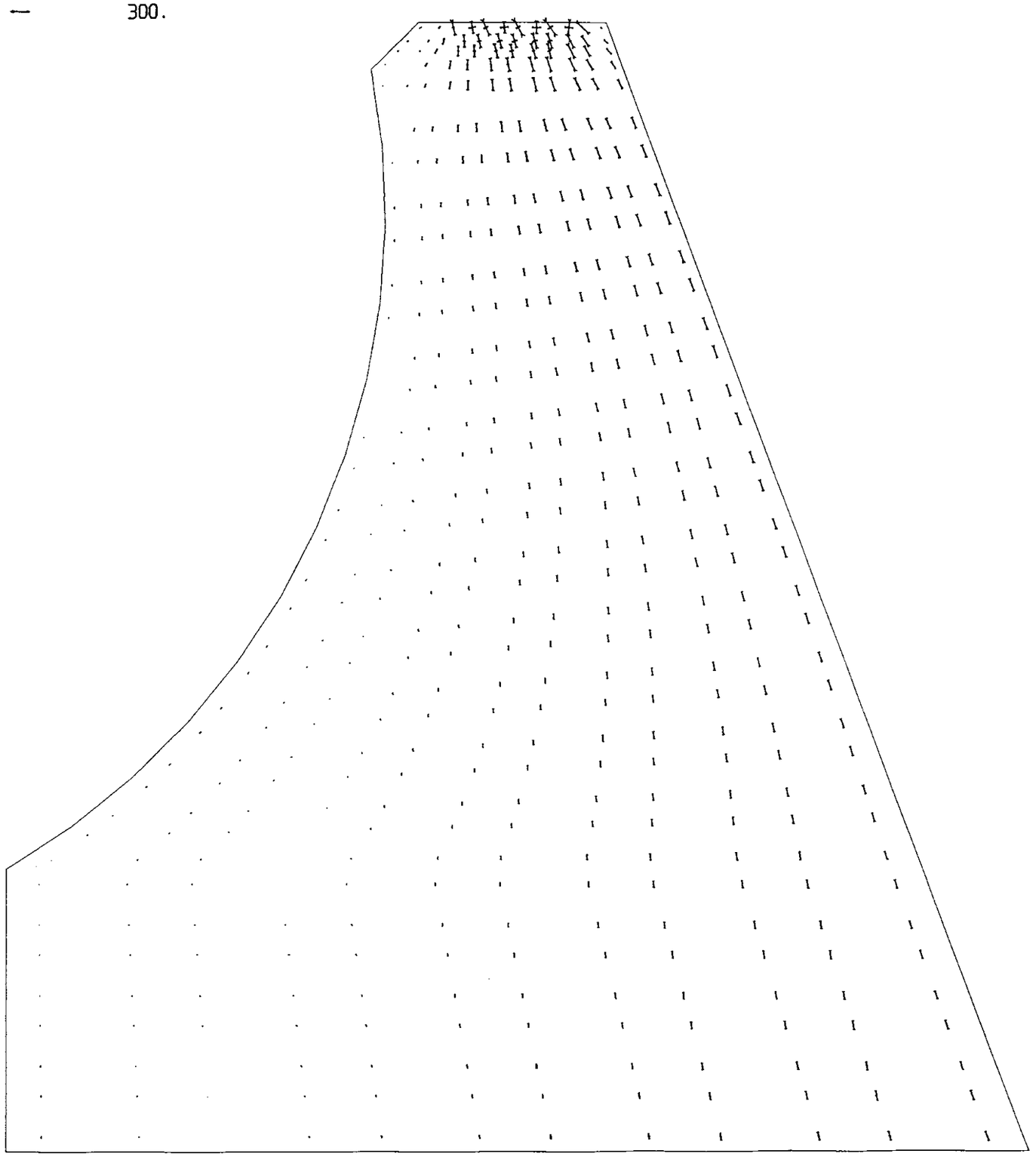
PILA-12
hipo 11 Axil Maximo
Axiles (Tensiones)

— 300.



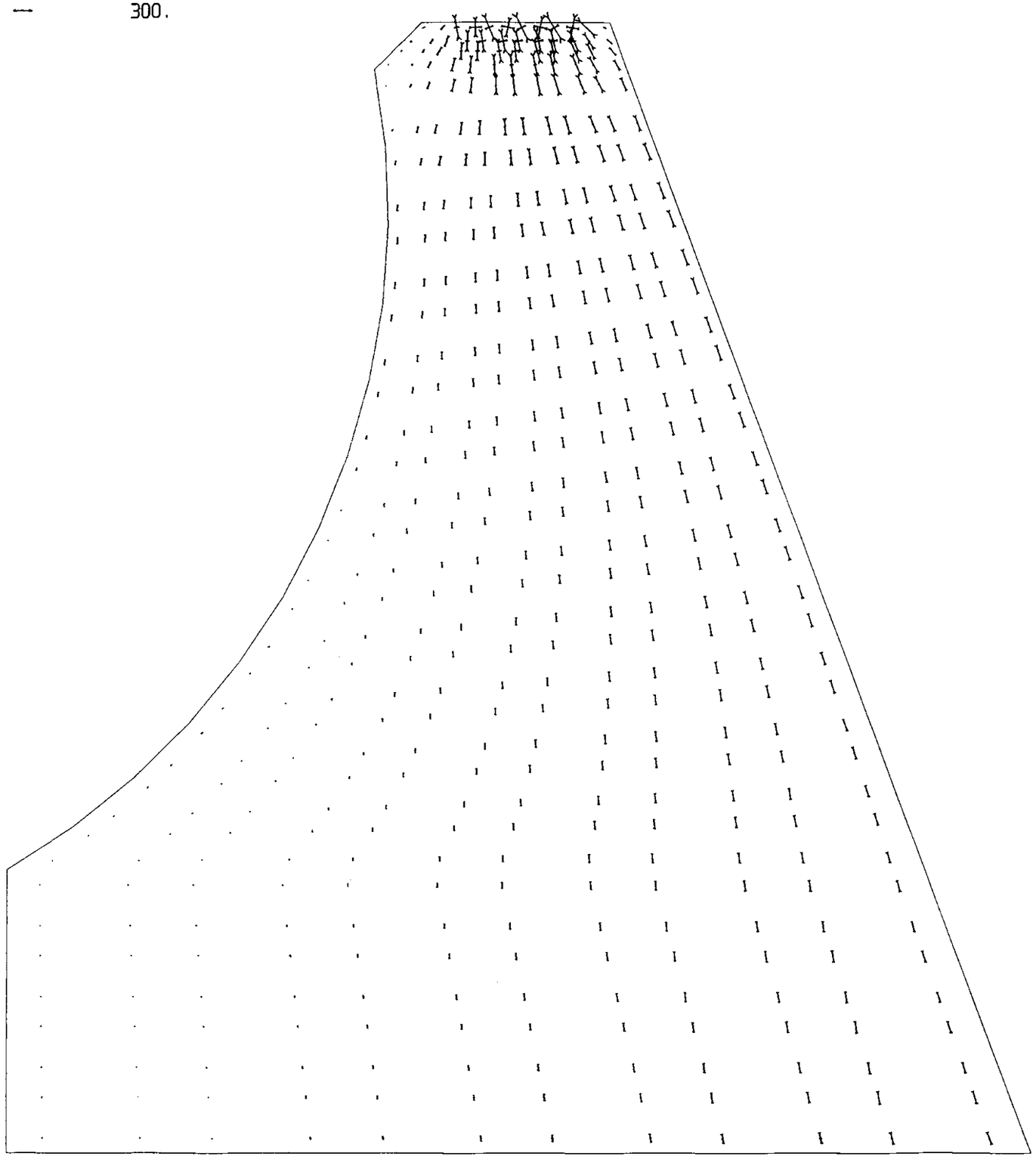
PILA-12
hipo 12 Axil Minimo
Axiles (Tensiones)

— 300.

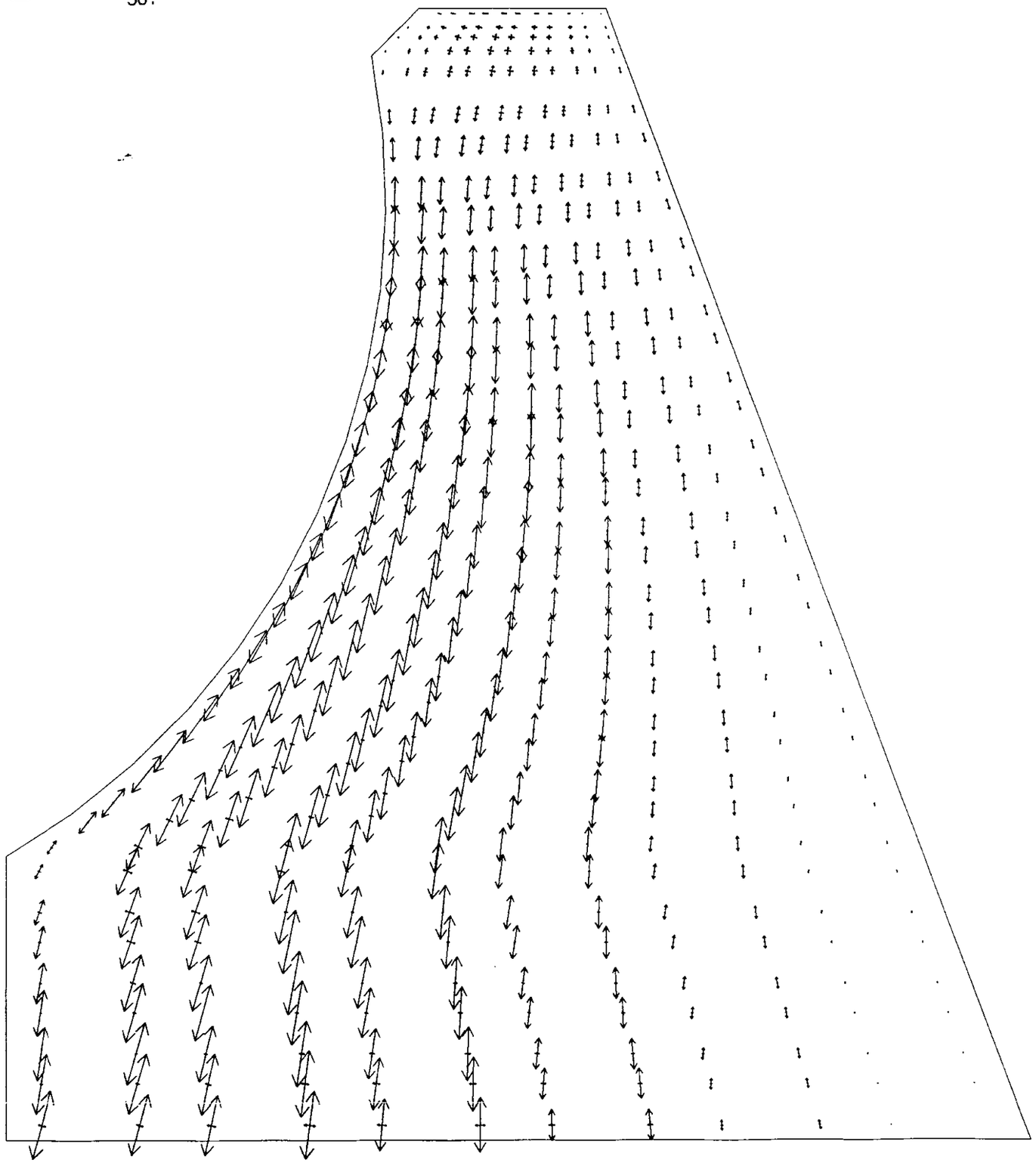


PILA-12
hipo 13 Flec Minimo
Axiles (Tensiones)

— 300.

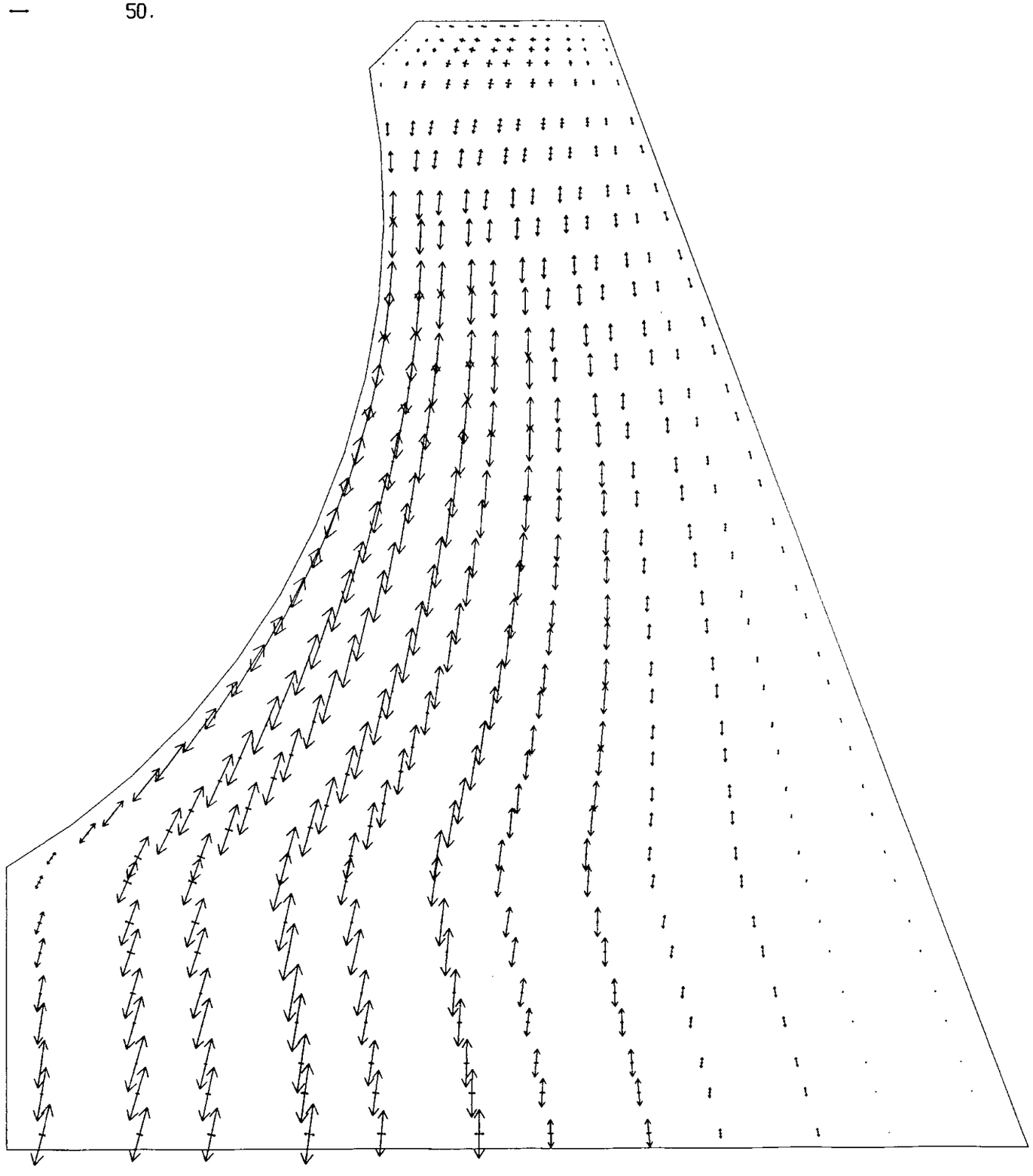


PILA-12
hipo 11 Axil Maximo
Momentos



PILA-12
hipo 12 Axil Minimo
Momentos

— 50.



PILAS 9 a 10

Esfuerzos

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 320 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-6797.49	-157.77	0.00
512 FUER X MIN envolvente (ELU) (tota	-2091.51	141.99	383.92
513 FUER Y MAX envolvente (ELU) (tota	-2717.60	-157.77	0.00
514 FUER Y MIN envolvente (ELU) (tota	-2709.87	157.77	0.00
515 FUER Z MAX envolvente (ELU) (tota	-2930.39	0.00	-426.59
516 FUER Z MIN envolvente (ELU) (tota	-2497.08	0.00	426.58
517 MOME X MAX envolvente (ELU) (tota	-2713.73	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-2713.73	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-4449.65	0.00	-426.59
520 MOME Y MIN envolvente (ELU) (tota	-2497.08	0.00	426.58
521 MOME Z MAX envolvente (ELU) (tota	-6052.68	157.77	0.00
522 MOME Z MIN envolvente (ELU) (tota	-3405.49	-157.77	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 321 extremo frontal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-6797.49	-154.56	0.00
512 FUER X MIN envolvente (ELU) (tota	-2092.45	139.10	0.00
513 FUER Y MAX envolvente (ELU) (tota	-2717.60	-154.56	0.00
514 FUER Y MIN envolvente (ELU) (tota	-2709.87	154.56	0.00
515 FUER Z MAX envolvente (ELU) (tota	-2713.73	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-2713.73	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-2713.73	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-2713.73	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-3466.71	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-4900.16	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-6052.68	154.56	0.00
522 MOME Z MIN envolvente (ELU) (tota	-3405.49	-154.56	0.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 322 extremo frontal P-10

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-6716.21	154.62	0.00
512 FUER X MIN envolvente (ELU) (tota	-2061.26	-139.16	385.29
513 FUER Y MAX envolvente (ELU) (tota	-2677.41	-154.62	0.00
514 FUER Y MIN envolvente (ELU) (tota	-2683.54	154.62	0.00
515 FUER Z MAX envolvente (ELU) (tota	-2898.10	0.00	-428.10
516 FUER Z MIN envolvente (ELU) (tota	-2462.84	0.00	428.10
517 MOME X MAX envolvente (ELU) (tota	-2680.48	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-2680.48	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-4395.10	0.00	-428.10
520 MOME Y MIN envolvente (ELU) (tota	-2462.84	0.00	428.10
521 MOME Z MAX envolvente (ELU) (tota	-3353.52	154.62	0.00
522 MOME Z MIN envolvente (ELU) (tota	-5959.80	-154.62	0.00

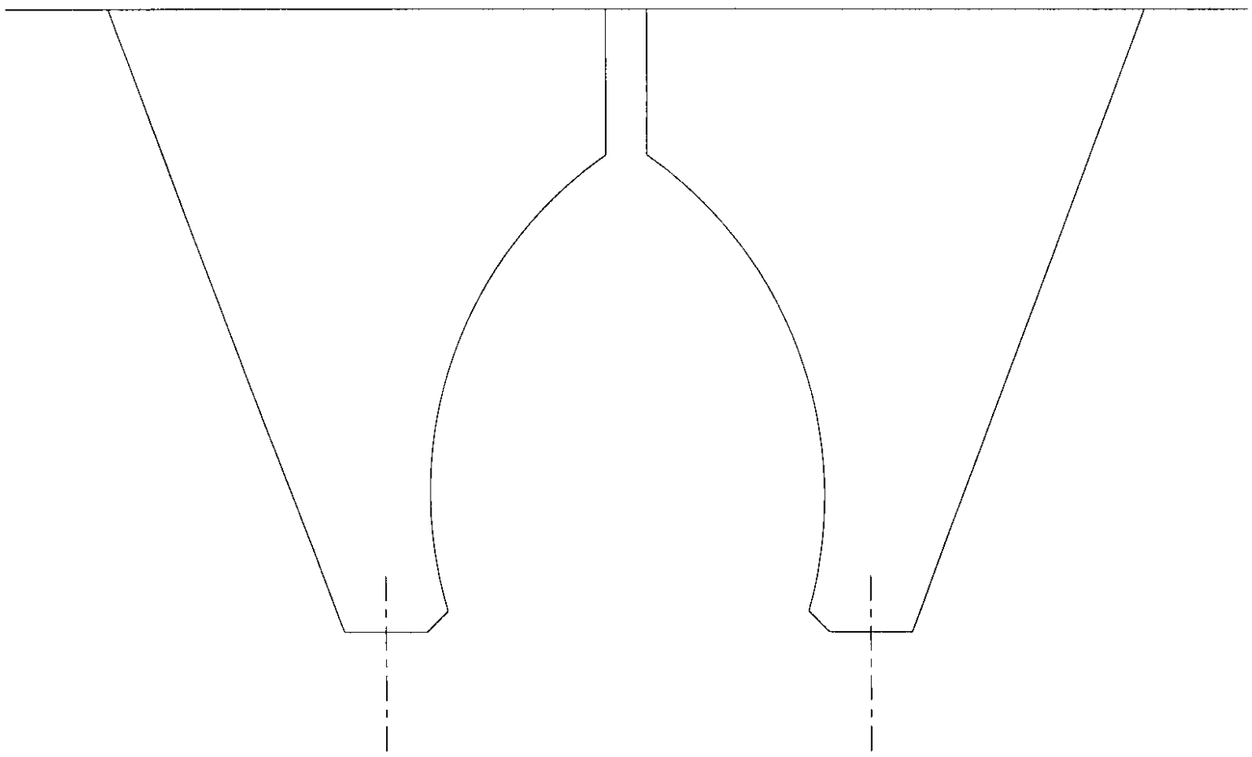
proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 323 extremo frontal P-10

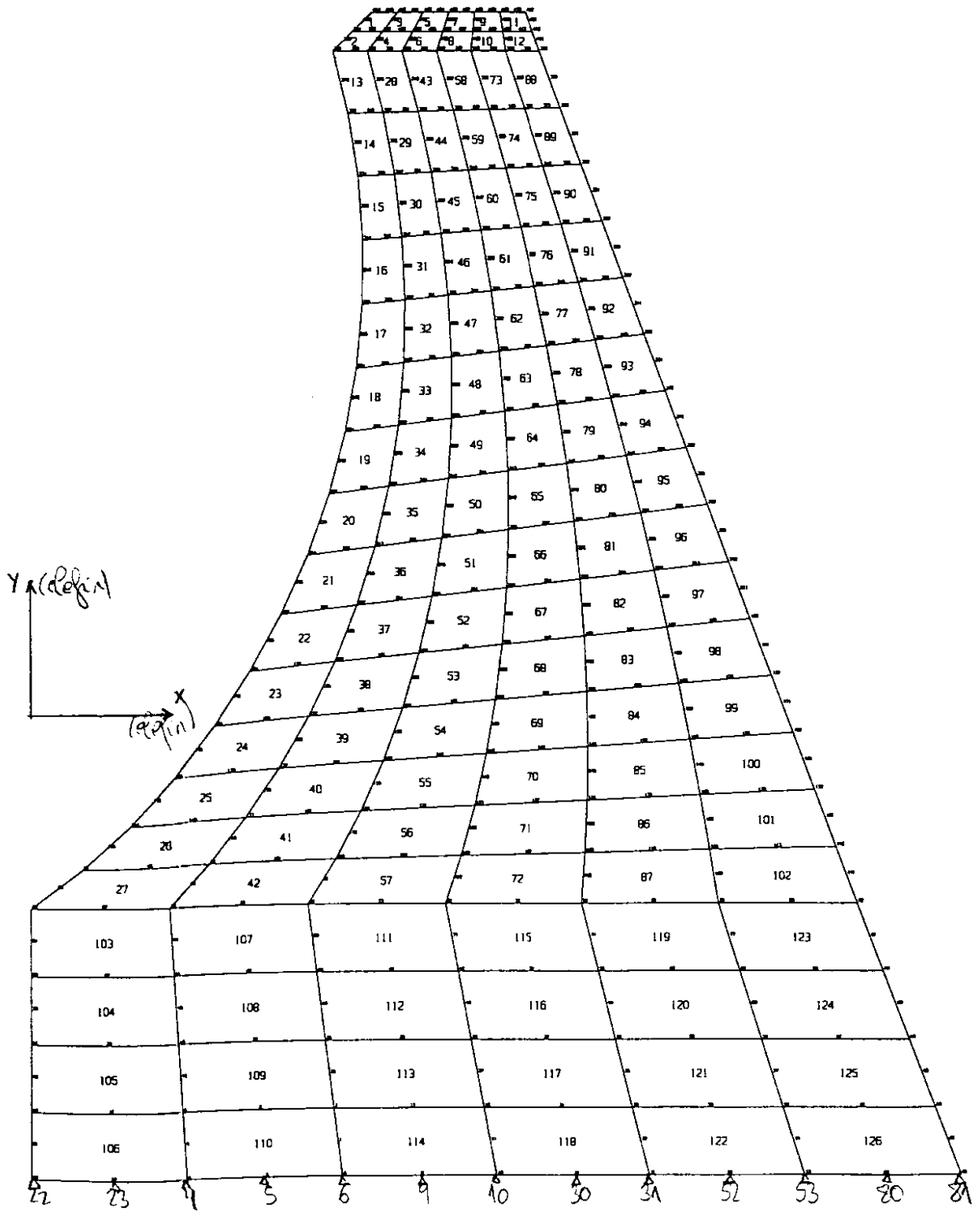
coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo FZ : 1.00

HIP.	FX	FY	FZ
511 FUER X MAX envolvente (ELU) (tota	-6716.21	151.99	0.00
512 FUER X MIN envolvente (ELU) (tota	-2062.14	-136.80	0.00
513 FUER Y MAX envolvente (ELU) (tota	-2677.41	-151.99	0.00
514 FUER Y MIN envolvente (ELU) (tota	-2683.54	151.99	0.00
515 FUER Z MAX envolvente (ELU) (tota	-2680.48	0.00	0.00
516 FUER Z MIN envolvente (ELU) (tota	-2680.48	0.00	0.00
517 MOME X MAX envolvente (ELU) (tota	-2680.48	0.00	0.00
518 MOME X MIN envolvente (ELU) (tota	-2680.48	0.00	0.00
519 MOME Y MAX envolvente (ELU) (tota	-3486.86	0.00	0.00
520 MOME Y MIN envolvente (ELU) (tota	-4841.98	0.00	0.00
521 MOME Z MAX envolvente (ELU) (tota	-3353.52	151.99	0.00
522 MOME Z MIN envolvente (ELU) (tota	-5959.80	-151.99	0.00

Listado de datos



elef (Pilas 9 y 10)
Malla



CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

Espesores de los elementos

Nº Elem.	Espesor	Nº Elem.	Espesor	Nº Elem.	Espesor
1	3 57	43	3,38	85	2,34
2	3,62	44	3,32	86	2,32
3	3,47	45	3,27	87	2,30
4	3,51	46	3,23	88	2,93
5	3,37	47	3,17	89	2,83
6	3,40	48	3,18	90	2,73
7	3,25	49	3,17	91	2,62
8	3,27	50	3,18	92	2,52
9	3,14	51	3,19	93	2,41
10	3,13	52	3,22	94	2,31
11	3,01	53	3,27	95	2,20
12	2,99	54	3,32	96	2,09
13	3,63	55	3,38	97	1,98
14	3,58	56	3,45	98	1,87
15	3,55	57	3,52	99	1,77
16	3,54	58	3,24	100	1,66
17	3,54	59	3,17	101	1,55
18	3,56	60	3,10	102	1,45
19	3,60	61	3,05	103	4,15
20	3,64	62	2,99	104	4,15
21	3,70	63	2,95	105	4,14
22	3,77	64	2,91	106	4,14
23	3,85	65	2,89	107	3,93
24	3,93	66	2,87	108	3,92
25	4,00	67	2,87	109	3,90
26	4,07	68	2,87	110	3,89
27	4,13	69	2,89	111	3,54
28	3,51	70	2,91	112	3,50
29	3,46	71	2,95	113	3,46
30	3,42	72	2,99	114	3,43
31	3,39	73	3,09	115	2,97
32	3,38	74	3,01	116	2,90
33	3,38	75	2,92	117	2,83
34	3,40	76	2,84	118	2,75
35	3,43	77	2,77	119	2,23
36	3,47	78	2,69	120	2,11
37	3,53	79	2,63	121	1,99
38	3,59	80	2,56	122	1,87
39	3,67	81	2,50	123	1,30
40	3,74	82	2,45	124	1,12
41	3,82	83	2,41	125	0,94
42	3,90	84	2,37	126	0,76

PILAS 9 y 10

Son apoyos (empotramientos) los nudos:

22; 23; 4; 5; 6; 9; 10, 30, 31, 52; 53; 80 y 81

Las cargas las repartimos entre los nudos:

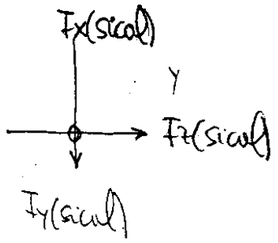
418; 417; 421, 420, 424, 423; 427, 426; 430; 429, 433

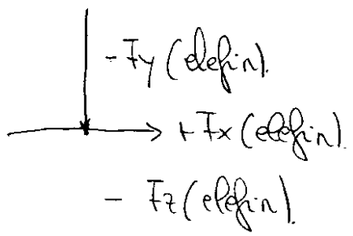
f_x (defín) = $\frac{1}{11}$ f_z (sical)

f_y (defín) = $\frac{1}{11}$ f_x (sical)

f_z (defín) = $\frac{1}{11}$ f_y (sical)

Equivalencia de signos





ACCIONES EN EL MODELO (Pilas 9 y 10)

SICAL			ELEFIN		
Fx	Fy	Fz	fx	fy	fz
6797,49	157,77	0.0	0,0	-617,95	14,34
2091,51	141,99	383,92	34,90	-190,14	12,91
2497,08	0,00	426,58	38,78	-227,01	0,0

```
elef
  433  126  126    3    6    8 1
mall
coor
```

1	3.9451	0.4375
2	1.9451	0.8750
3	1.9725	0.4375
4	2.0000	0.0000
5	3.0000	0.0000
6	4.0000	0.0000
7	3.8901	0.8750
8	2.9176	0.8750
9	5.0000	0.0000
10	6.0000	0.0000
11	5.9176	0.4375
12	5.8352	0.8750
13	4.8627	0.8750
14	0.0000	1.7500
15	0.0000	1.3125
16	0.0000	0.8750
17	0.9725	0.8750
18	1.9176	1.3125
19	1.8901	1.7500
20	0.9451	1.7500
21	0.0000	0.4375
22	0.0000	0.0000
23	1.0000	0.0000
24	3.8352	1.3125
25	3.7803	1.7500
26	2.8352	1.7500
27	5.7528	1.3125
28	5.6704	1.7500
29	4.7253	1.7500
30	7.0000	0.0000
31	8.0000	0.0000
32	7.8901	0.4375
33	7.7803	0.8750
34	6.8077	0.8750
35	7.6704	1.3125
36	7.5606	1.7500
37	6.6155	1.7500
38	0.0000	2.6250
39	0.0000	2.1875
40	1.8627	2.1875
41	1.8352	2.6250
42	0.9176	2.6250
43	3.7253	2.1875
44	3.6704	2.6250
45	2.7528	2.6250
46	5.5880	2.1875
47	5.5056	2.6250
48	4.5880	2.6250
49	7.4507	2.1875
50	7.3408	2.6250
51	6.4232	2.6250
52	9.0000	0.0000
53	10.0000	0.0000
54	9.8627	0.4375
55	9.7253	0.8750
56	8.7528	0.8750
57	9.5880	1.3125
58	9.4507	1.7500
59	8.5056	1.7500
60	9.3134	2.1875
61	9.1760	2.6250
62	8.2584	2.6250
63	0.0000	3.5000
64	0.0000	3.0625
65	1.8077	3.0625
66	1.7803	3.5000
67	0.8901	3.5000
68	3.6155	3.0625
69	3.5606	3.5000
70	2.6704	3.5000
71	5.4232	3.0625
72	5.3408	3.5000
73	4.4507	3.5000
74	7.2310	3.0625
75	7.1211	3.5000
76	6.2310	3.5000
77	9.0387	3.0625
78	8.9014	3.5000
79	8.0112	3.5000
80	11.0000	0.0000
81	12.0000	0.0000
82	11.8352	0.4375
83	11.6704	0.8750
84	10.6979	0.8750
85	11.5056	1.3125
86	11.3408	1.7500
87	10.3958	1.7500
88	11.1760	2.1875
89	11.0112	2.6250
90	10.0936	2.6250
91	10.8465	3.0625
92	10.6817	3.5000
93	9.7915	3.5000
94	0.6583	4.0041
95	0.3292	3.7521
96	2.0355	3.7712
97	2.2908	4.0423
98	1.4746	4.0232
99	3.7403	3.7903
100	3.9201	4.0805
101	3.1055	4.0614
102	5.4435	3.8094
103	5.5462	4.1187
104	4.7332	4.0996
105	7.1451	3.8285
106	7.1692	4.1569
107	6.3577	4.1378

108	8.8451	3.8476
109	8.7889	4.1951
110	7.9790	4.1760
111	10.5436	3.8667
112	10.4054	4.2333
113	9.5972	4.2142
114	1.2726	4.5611
115	0.9655	4.2826
116	2.5261	4.3355
117	2.7613	4.6287
118	2.0170	4.5949
119	4.0825	4.3884
120	4.2449	4.6963
121	3.5031	4.6625
122	5.6349	4.4413
123	5.7236	4.7639
124	4.9842	4.7301
125	7.1831	4.4942
126	7.1971	4.8315
127	6.4603	4.7977
128	8.7273	4.5471
129	8.6657	4.8991
130	7.9314	4.8653
131	10.2673	4.6000
132	10.1292	4.9667
133	9.3975	4.9329
134	1.8387	5.1670
135	1.5556	4.8640
136	2.9750	4.9423
137	3.1887	5.2558
138	2.5137	5.2114
139	4.3890	5.0205
140	4.5330	5.3447
141	3.8608	5.3002
142	5.7976	5.0987
143	5.8716	5.4335
144	5.2023	5.3891
145	7.2008	5.1769
146	7.2044	5.5223
147	6.5380	5.4779
148	8.5986	5.2551
149	8.5316	5.6112
150	7.8680	5.5667
151	9.9911	5.3333
152	9.8530	5.7000
153	9.1923	5.6556
154	2.3526	5.8177
155	2.0956	5.4924
156	3.3794	5.5881
157	3.5702	5.9203
158	2.9614	5.8690
159	4.6577	5.6838
160	4.7824	6.0229
161	4.1763	5.9716
162	5.9304	5.7795
163	5.9892	6.1255
164	5.3858	6.0742
165	7.1975	5.8752
166	7.1905	6.2281
167	6.5898	6.1768
168	8.4590	5.9709
169	8.3864	6.3307
170	7.7884	6.2794
171	9.7149	6.0667
172	9.5768	6.4333
173	8.9816	6.3820
174	2.8108	6.5088
175	2.5817	6.1633
176	3.7369	6.2694
177	3.9035	6.6184
178	3.3571	6.5636
179	4.8871	6.3755
180	4.9918	6.7281
181	4.4476	6.6733
182	6.0324	6.4816
183	6.0756	6.8377
184	5.5337	6.7829
185	7.1728	6.5878
186	7.1550	6.9474
187	6.6153	6.8926
188	8.3082	6.6939
189	8.2300	7.0570
190	7.6925	7.0022
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apoy
22 1 1 1 1 1 1
23 1 1 1 1 1 1
 4 1 1 1 1 1 1
 5 1 1 1 1 1 1
 6 1 1 1 1 1 1
 9 1 1 1 1 1 1
10 1 1 1 1 1 1
30 1 1 1 1 1 1
31 1 1 1 1 1 1
52 1 1 1 1 1 1
53 1 1 1 1 1 1
80 1 1 1 1 1 1
81 1 1 1 1 1 1

hipo  1 Axil Maximo
1 418   0.00 -617.95 14.34 0. 0. 0.
1 417   0.00 -617.95 14.34 0. 0. 0.
1 421   0.00 -617.95 14.34 0. 0. 0.
1 420   0.00 -617.95 14.34 0. 0. 0.
1 424   0.00 -617.95 14.34 0. 0. 0.
1 423   0.00 -617.95 14.34 0. 0. 0.
1 427   0.00 -617.95 14.34 0. 0. 0.
1 426   0.00 -617.95 14.34 0. 0. 0.
1 430   0.00 -617.95 14.34 0. 0. 0.
1 429   0.00 -617.95 14.34 0. 0. 0.
1 433   0.00 -617.95 14.34 0. 0. 0.

fin
```

```
alma
  433  126  126    3    6    8 1
mall
coor
```

El resto de datos son comunes

```
hipo  2 Axil Minimo
1 418  34.90 -190.14 12.91 0. 0. 0.
1 417  34.90 -190.14 12.91 0. 0. 0.
1 421  34.90 -190.14 12.91 0. 0. 0.
1 420  34.90 -190.14 12.91 0. 0. 0.
1 424  34.90 -190.14 12.91 0. 0. 0.
1 423  34.90 -190.14 12.91 0. 0. 0.
1 427  34.90 -190.14 12.91 0. 0. 0.
1 426  34.90 -190.14 12.91 0. 0. 0.
1 430  34.90 -190.14 12.91 0. 0. 0.
1 429  34.90 -190.14 12.91 0. 0. 0.
1 433  34.90 -190.14 12.91 0. 0. 0.

fin
```

```
alma
  433  126  126    3    6    8 1
mall
coor
```

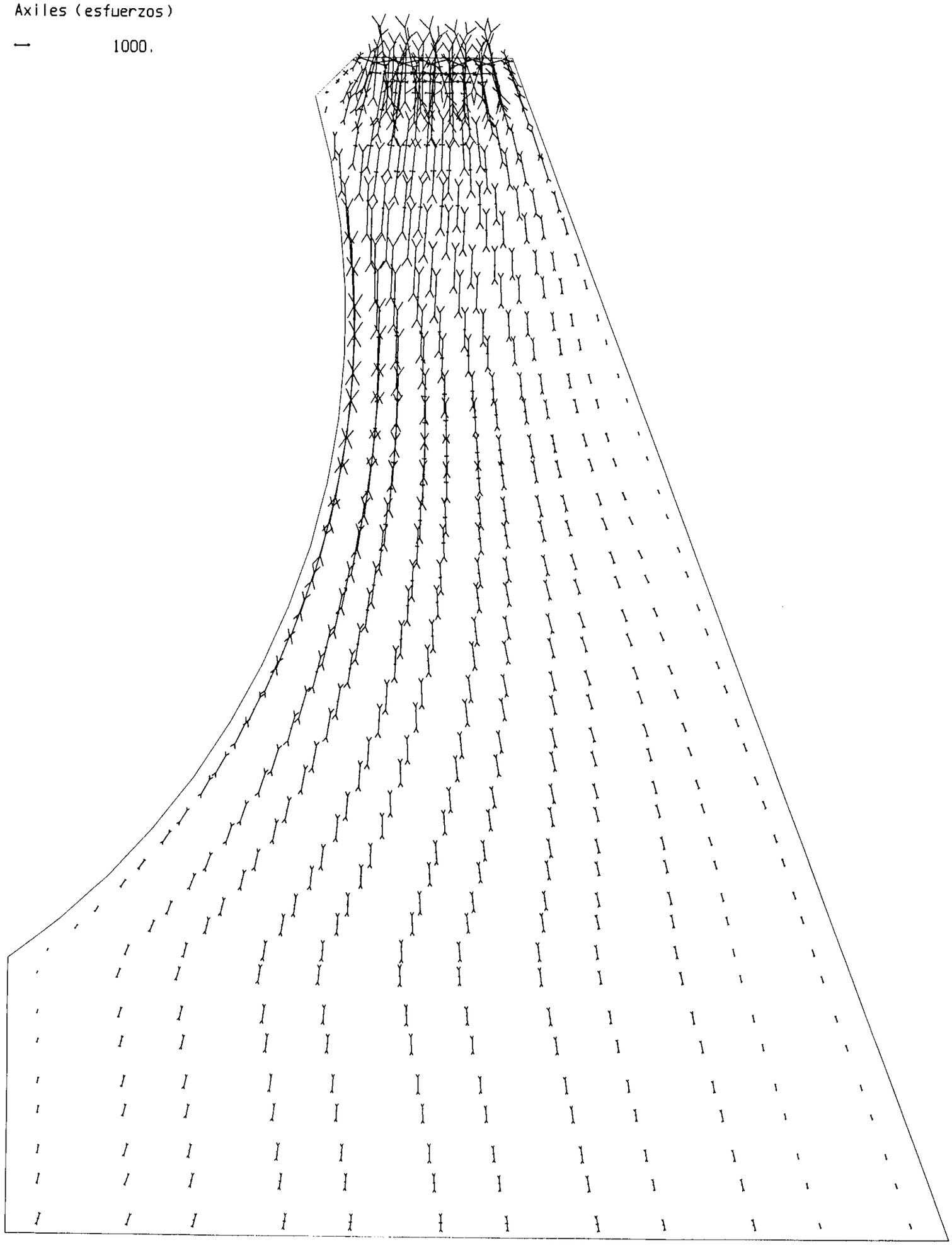
El resto de datos son comunes

```
hipo  3 Flec Minimo
1 418  38.78 -227.01  0.00 0. 0. 0.
1 417  38.78 -227.01  0.00 0. 0. 0.
1 421  38.78 -227.01  0.00 0. 0. 0.
1 420  38.78 -227.01  0.00 0. 0. 0.
1 424  38.78 -227.01  0.00 0. 0. 0.
1 423  38.78 -227.01  0.00 0. 0. 0.
1 427  38.78 -227.01  0.00 0. 0. 0.
1 426  38.78 -227.01  0.00 0. 0. 0.
1 430  38.78 -227.01  0.00 0. 0. 0.
1 429  38.78 -227.01  0.00 0. 0. 0.
1 433  38.78 -227.01  0.00 0. 0. 0.

fin
```

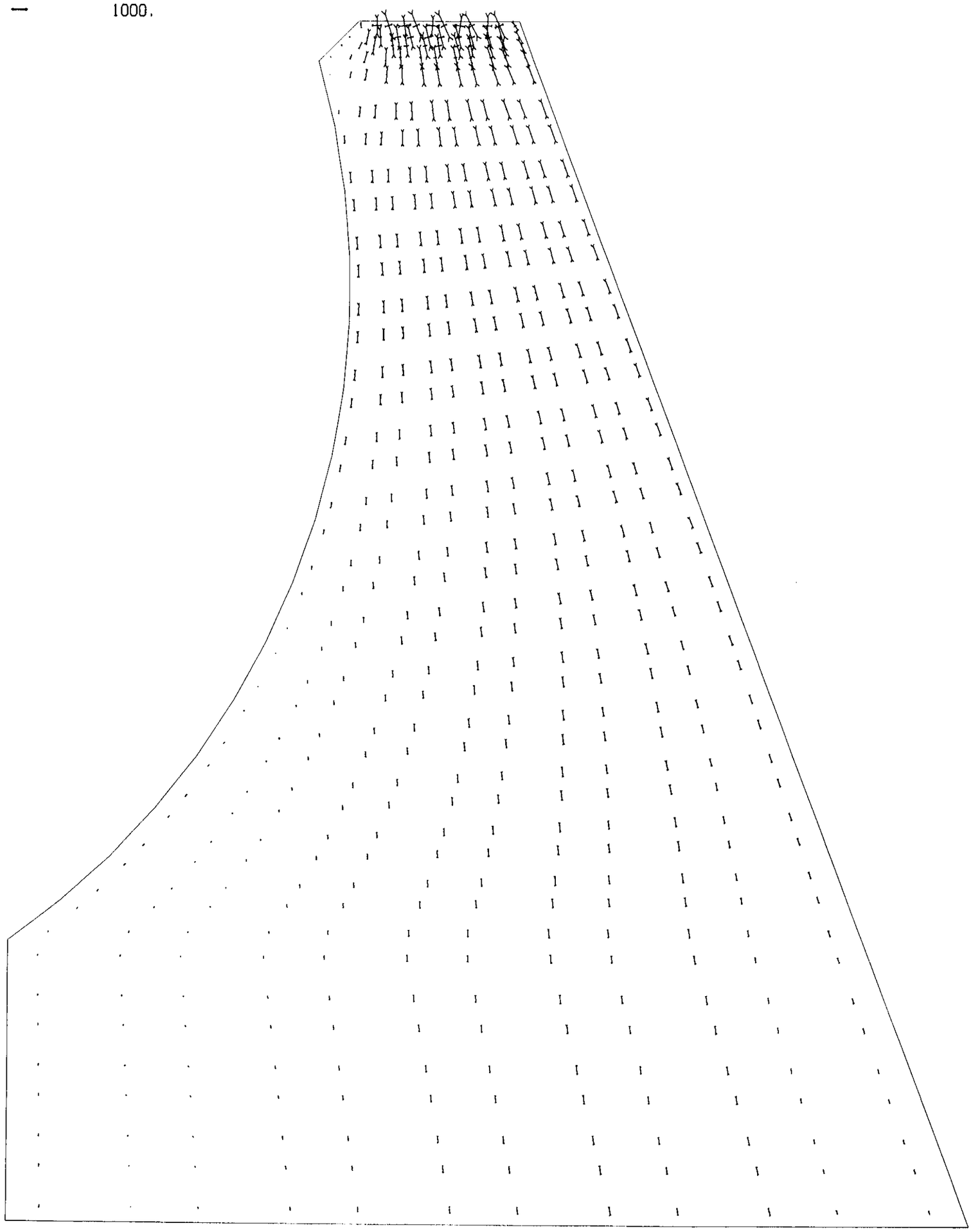
PILA-9
hipo 1 Axil Maximo
Axiles (esfuerzos)

⟵ 1000.



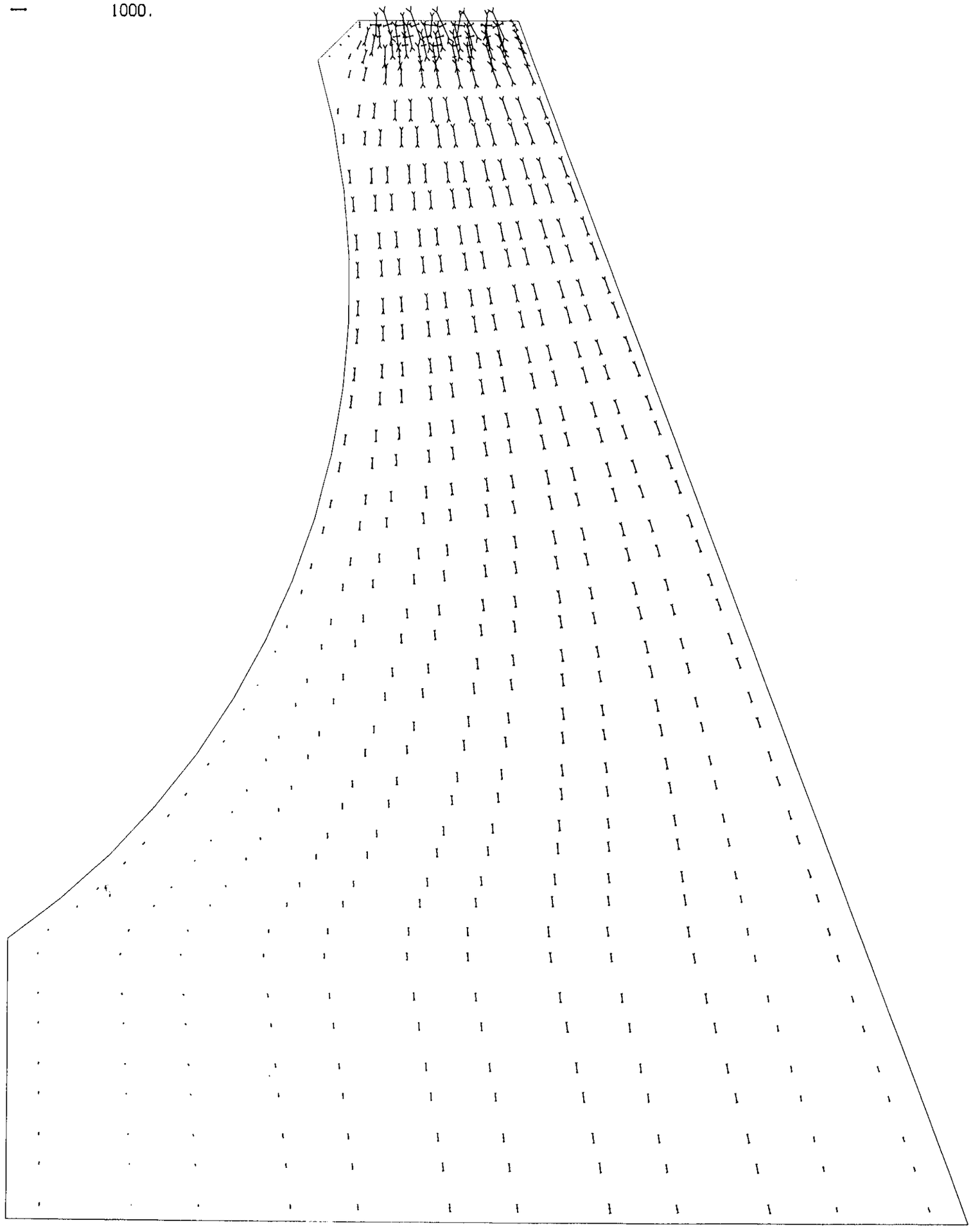
PILA-9
hipo 2 Axil Minimo
Axiles (esfuerzos)

— 1000.



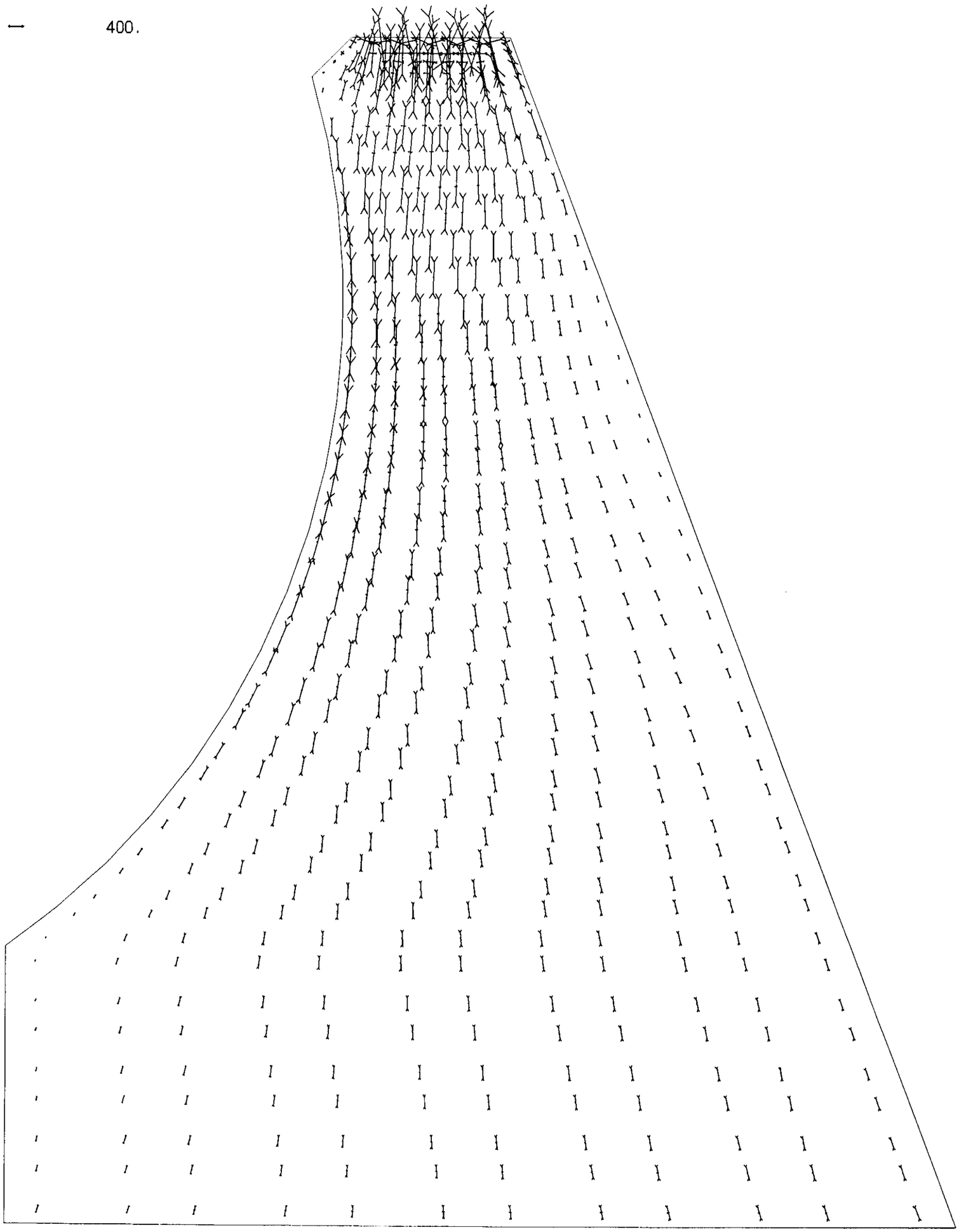
PILA-9
hipo 3 Flec Minimo
Axiles (esfuerzos)

— 1000.



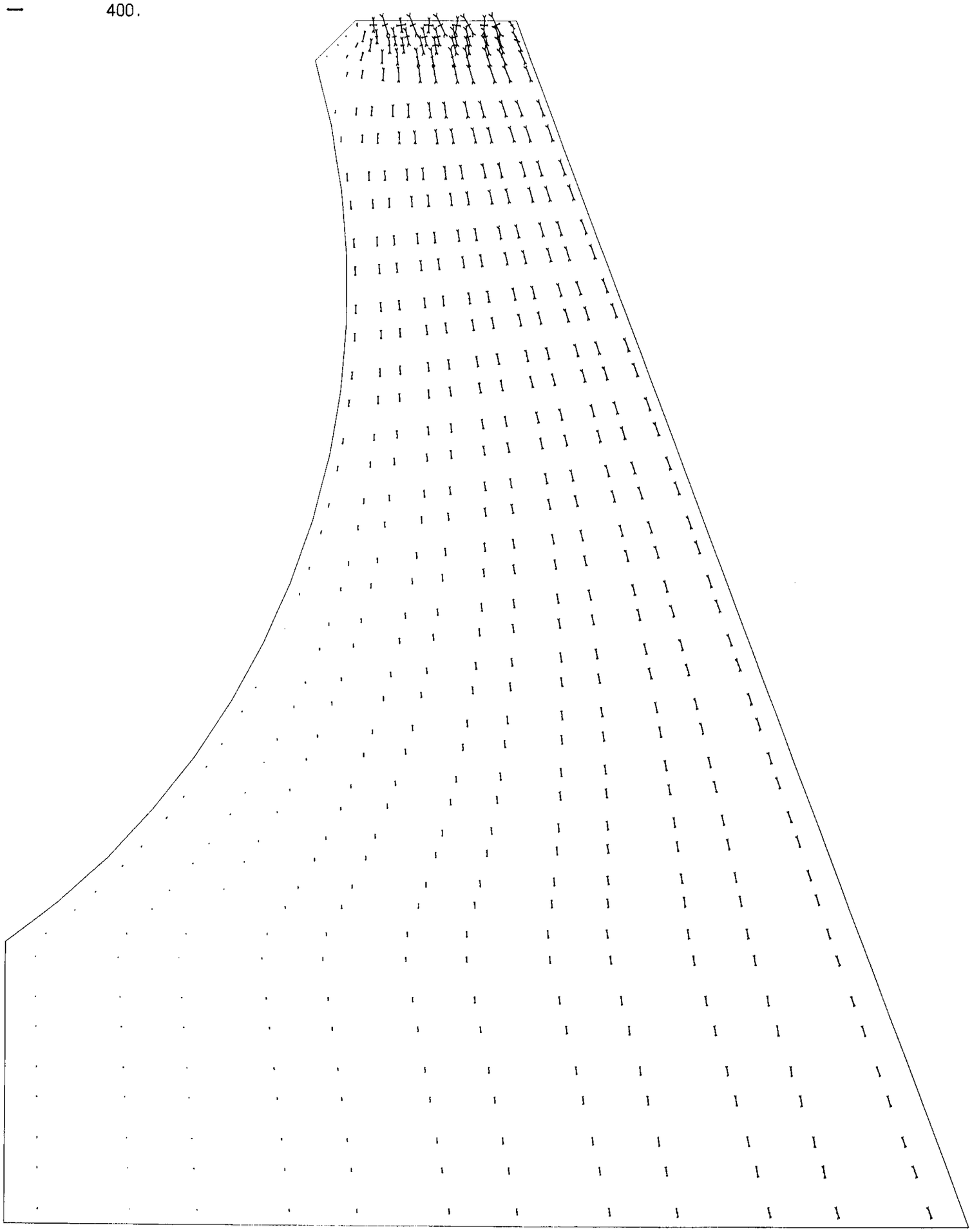
PILA-9
hipo 1 Axil Maximo
Axiles (Tensiones)

— 400.



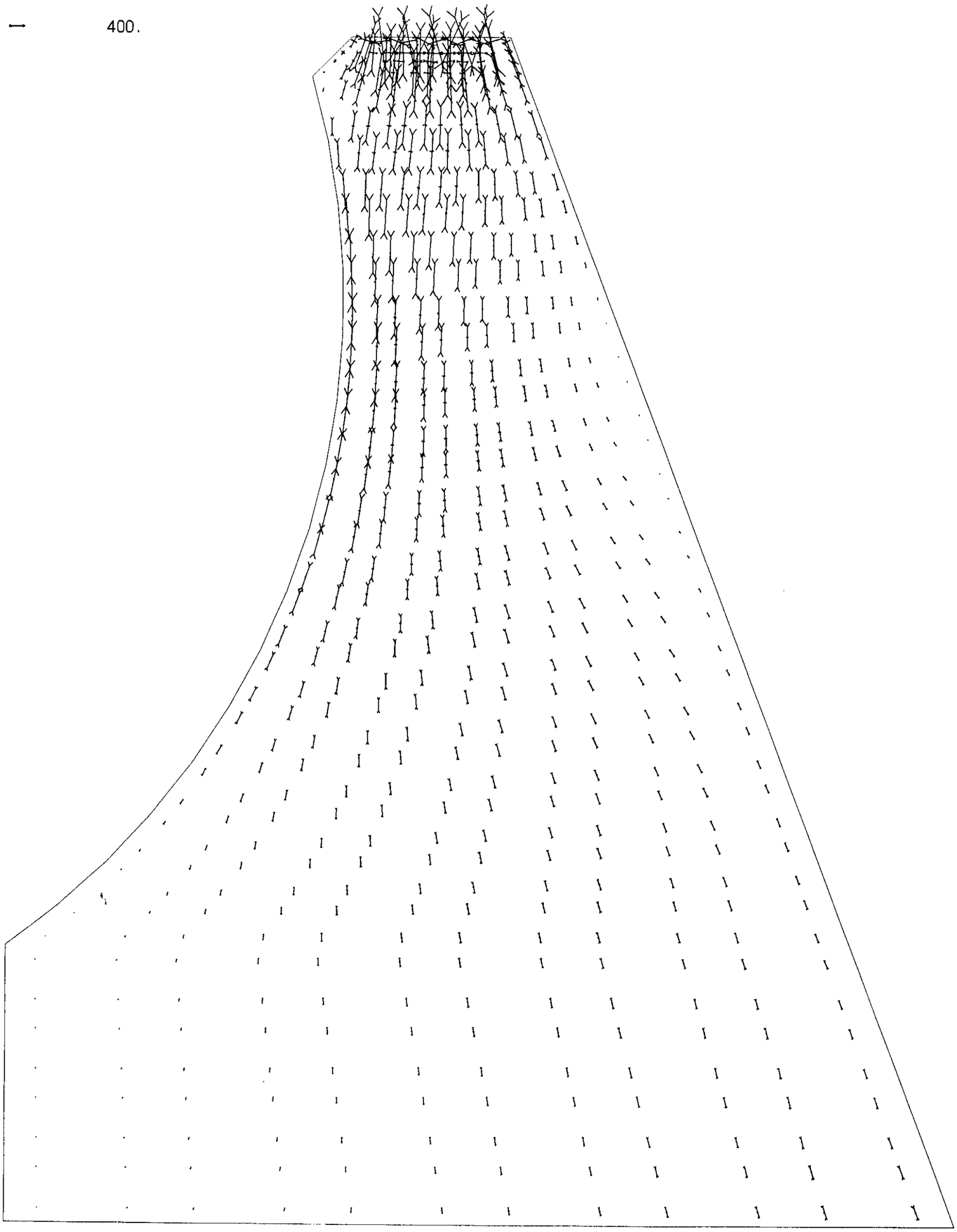
PILA-9
hipo 2 Axil Minimo
Axiles (Tensiones)

— 400.



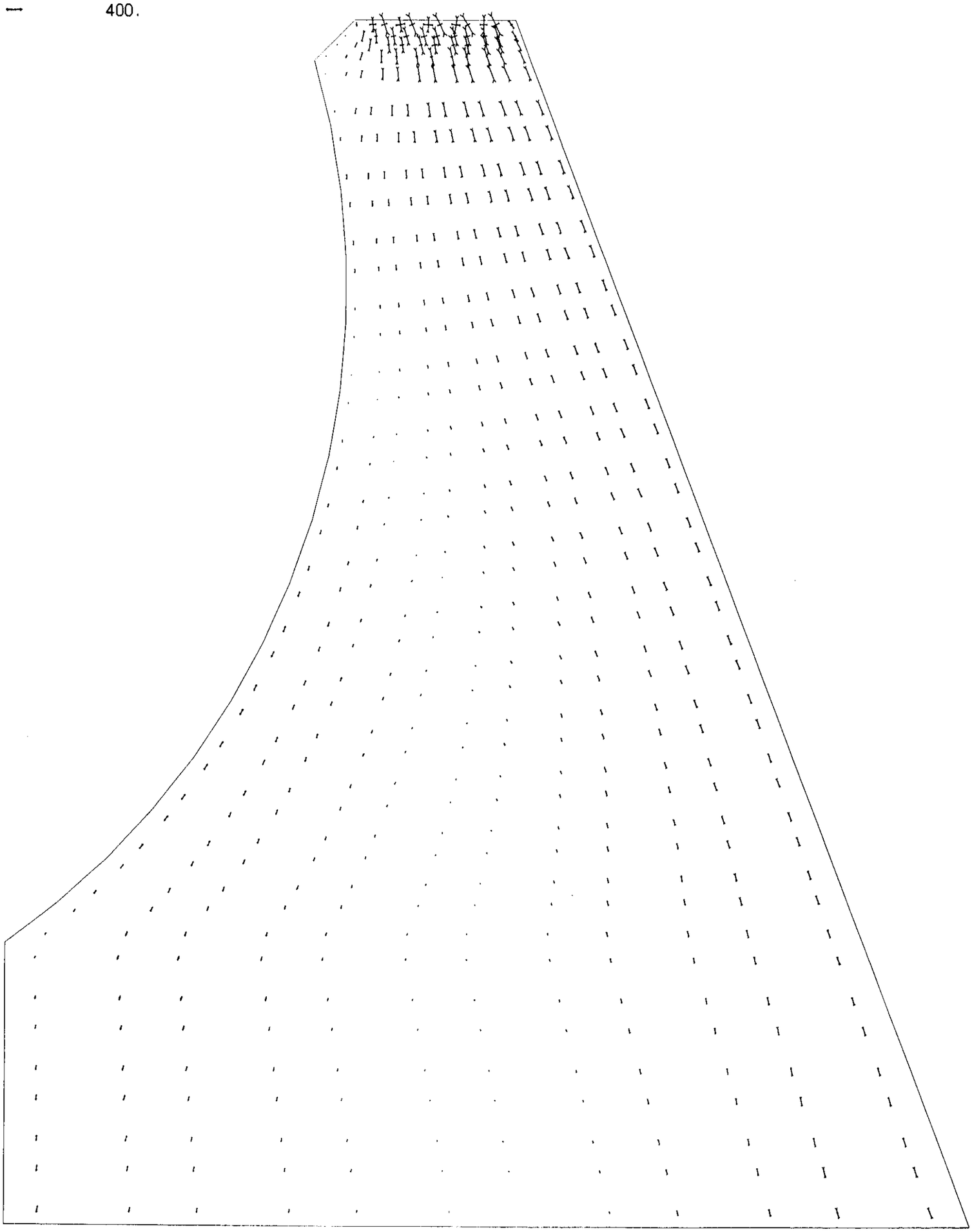
PILA-9
hipo 1 Axil Maximo
Lamina (tensiones en cara inferior)

⟵ 400.



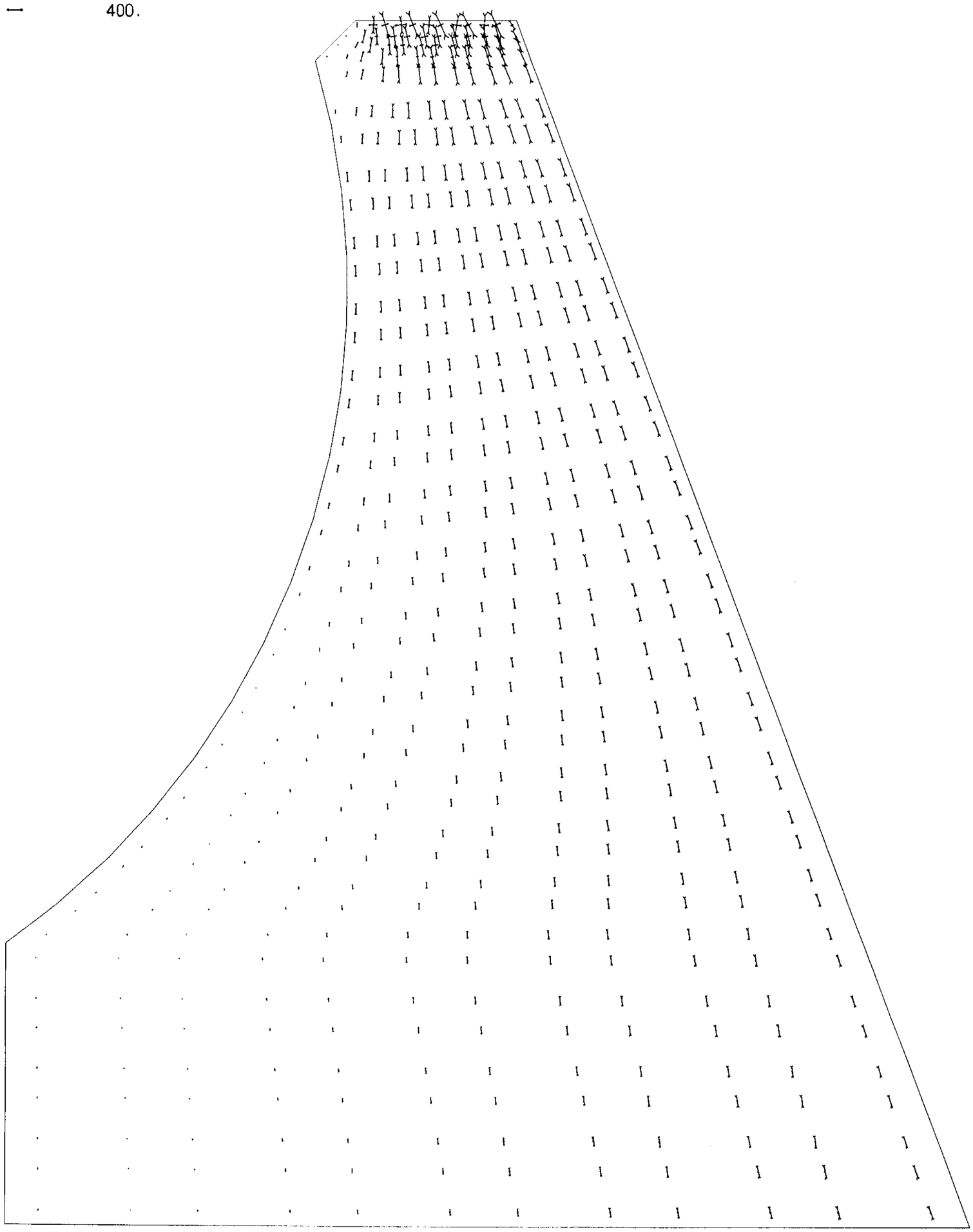
PILA-9
hipo 2 Axil Minimo
Lamina (tensiones en cara inferior)

— 400.



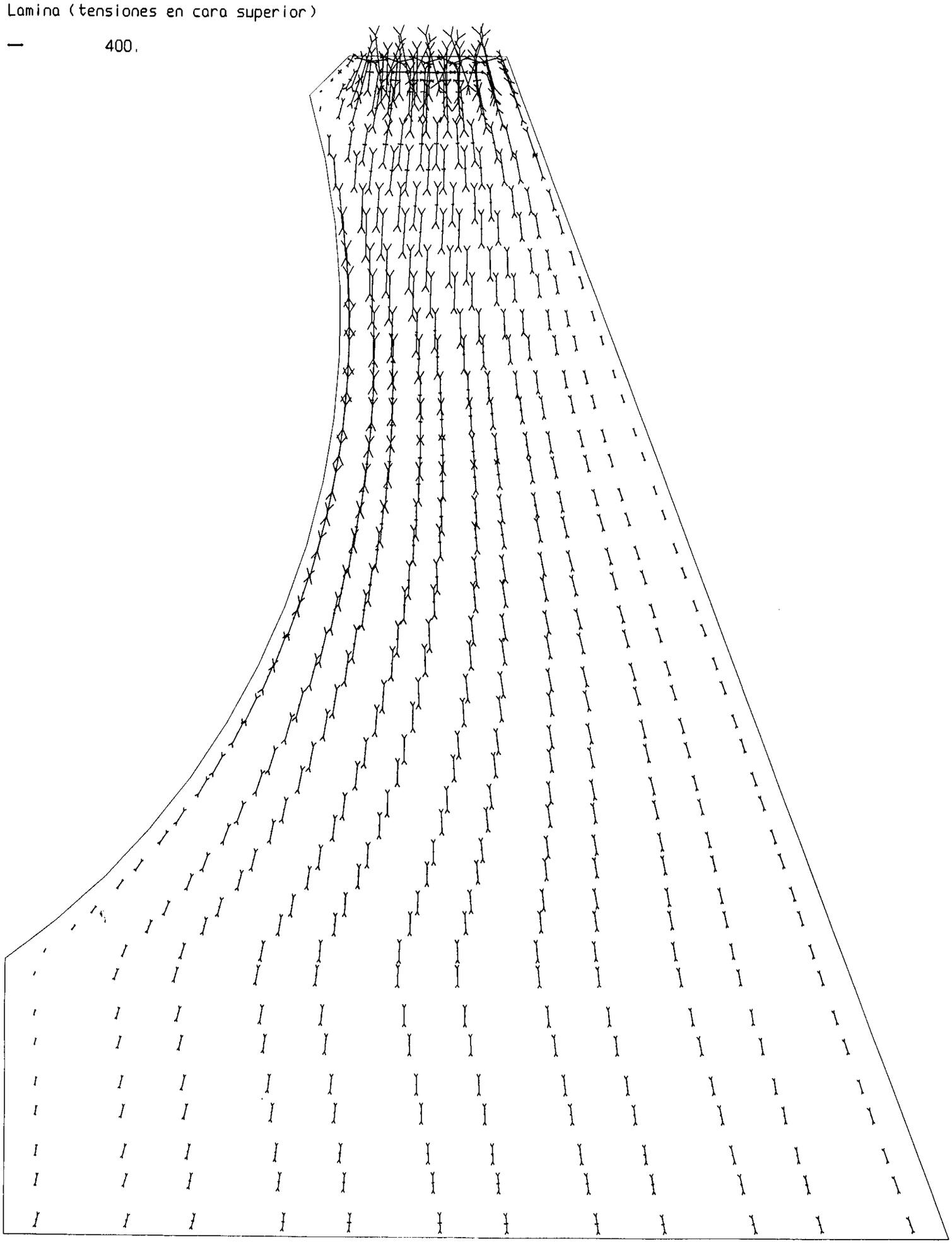
PILA-9
hipo 3 Flec Minimo
Lamina (tensiones en cara inferior)

400.



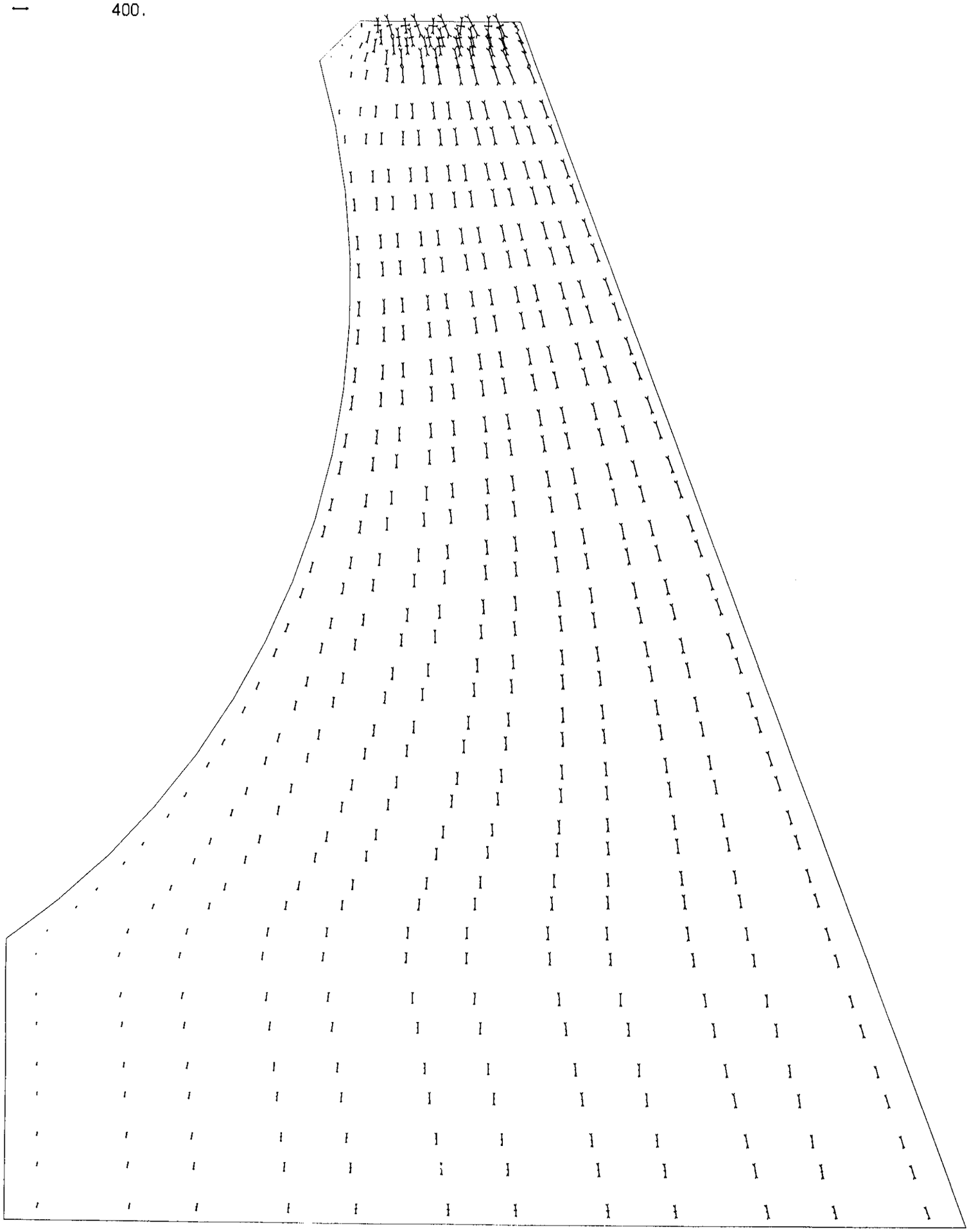
PILA-9
hipo 1 Axil Maximo
Lamina (tensiones en cara superior)

— 400.



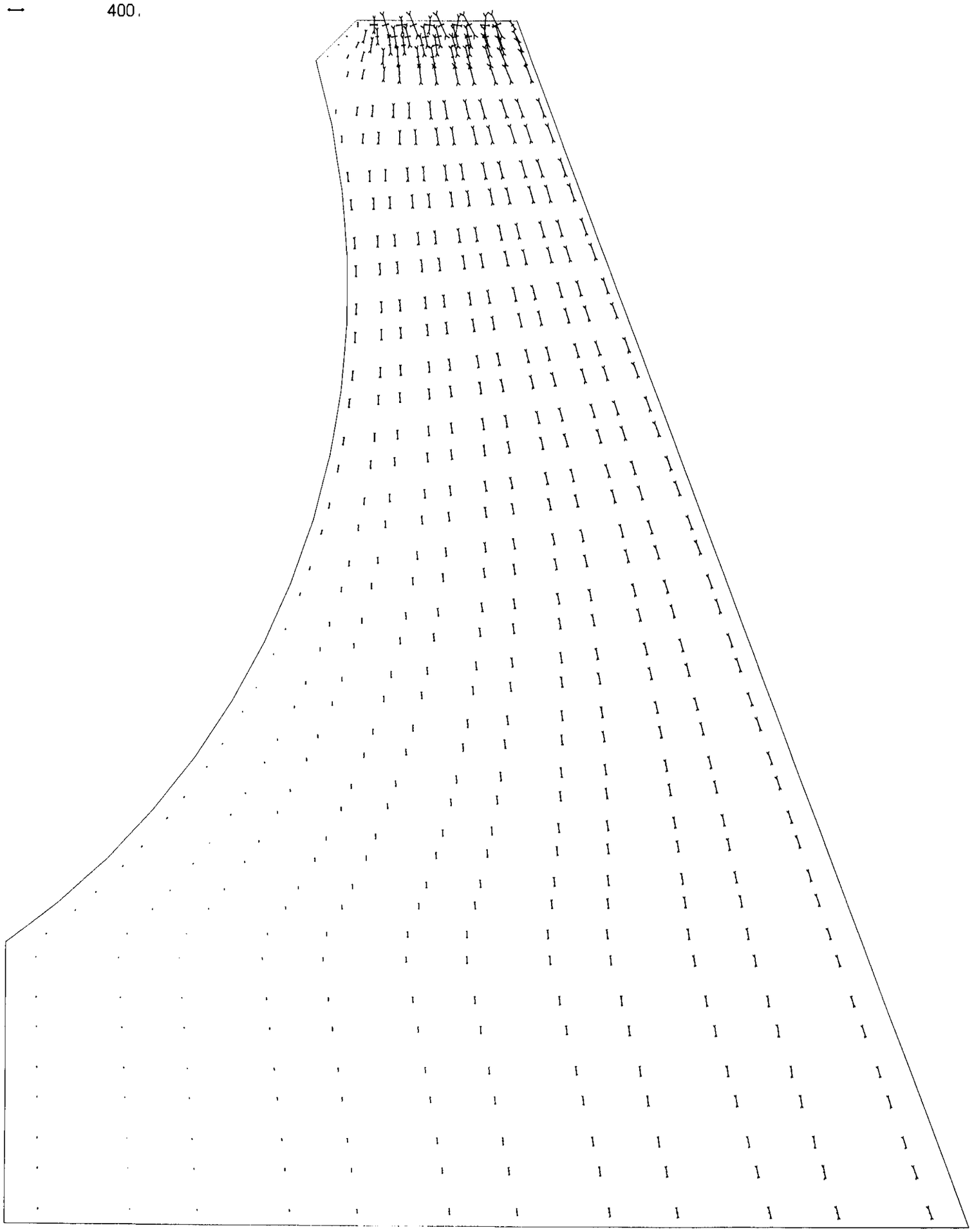
PILA-9
hipo 2 Axil Minimo
Lamina (tensiones en cara superior)

400.



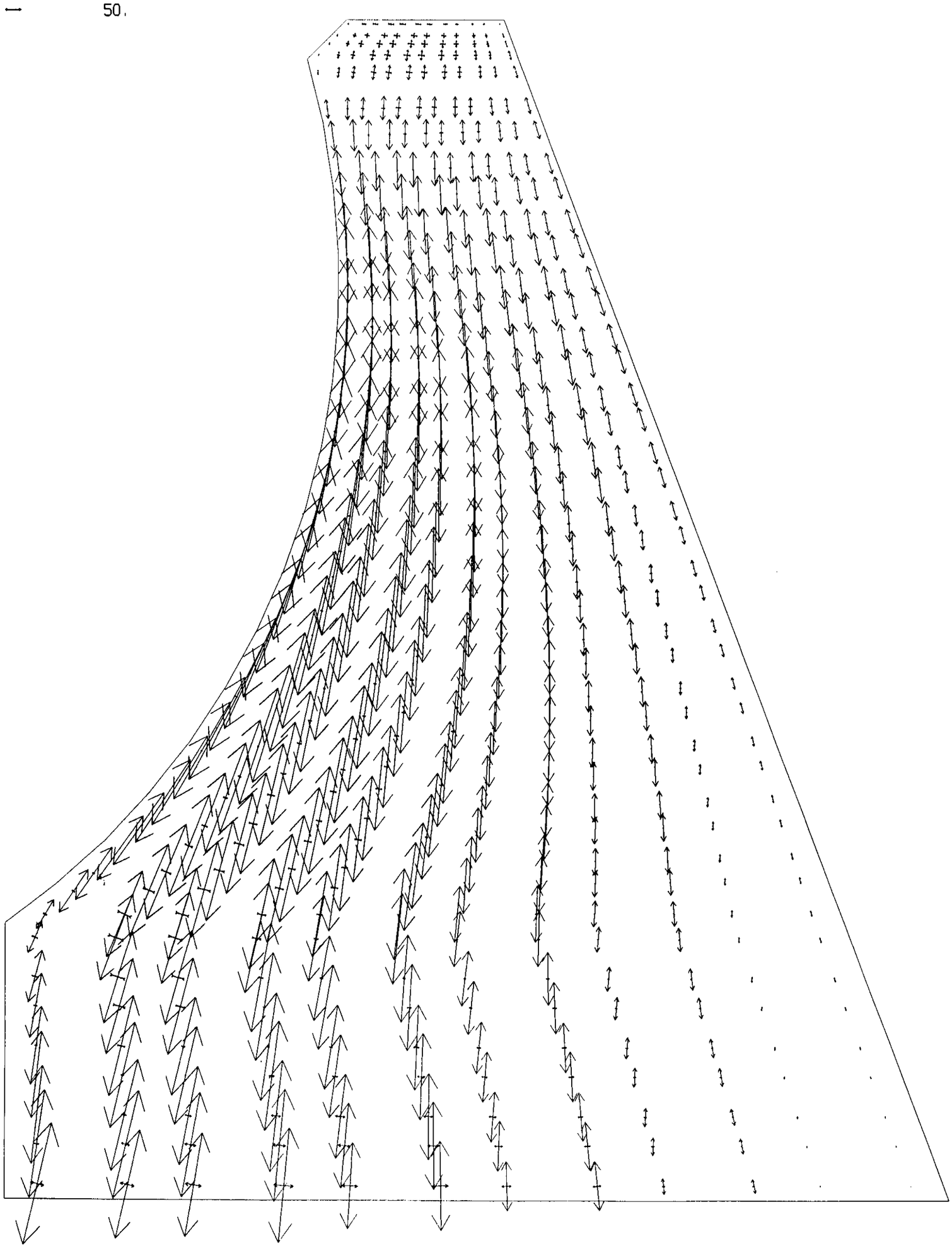
PILA-9
hipo 3 Flec Minimo
Lamina (tensiones en cara superior)

400.



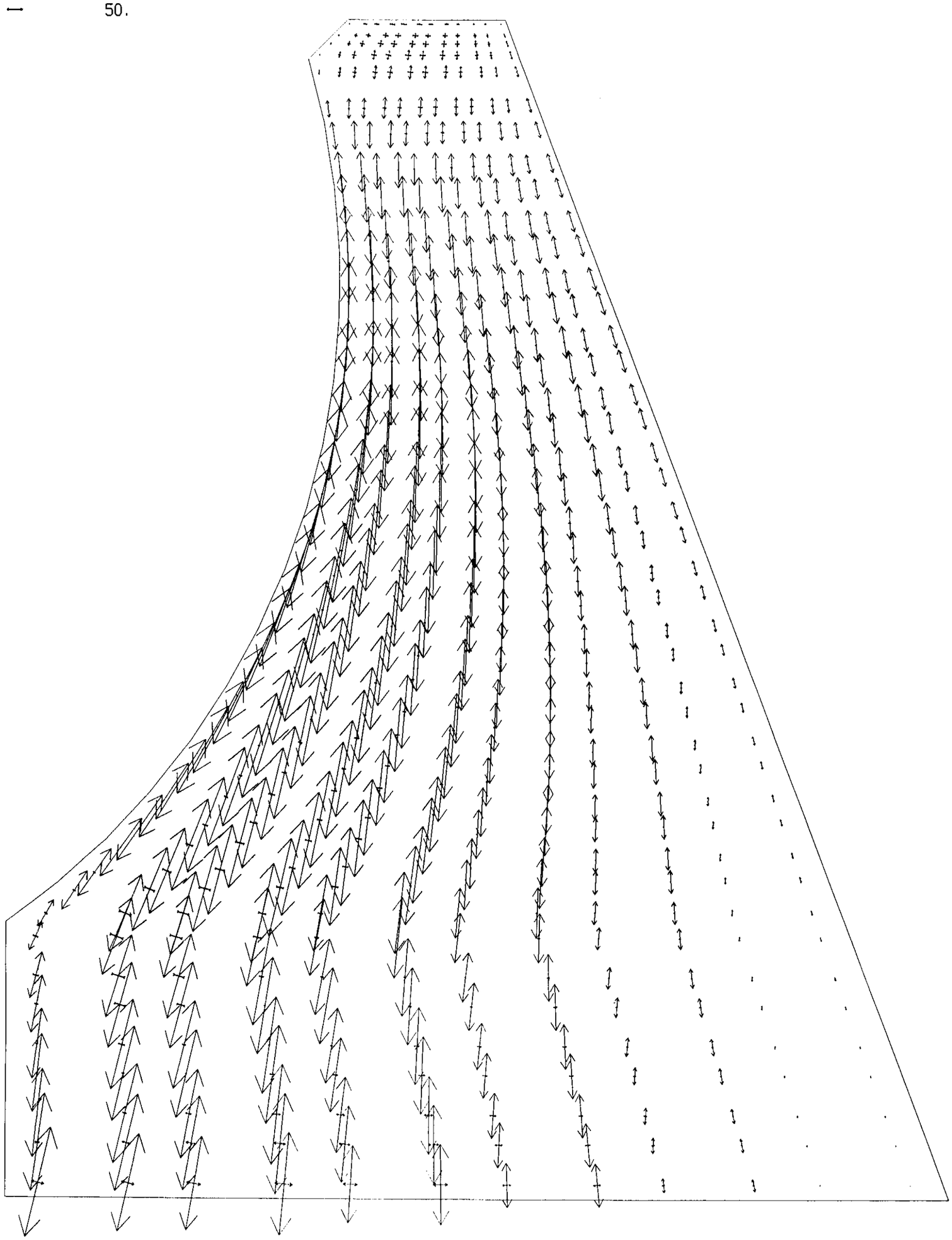
PILA-9
hipo 1 Axil Maximo
Momentos

⟶ 50.



PILA-9
hipo 2 Axil Minimo
Momentos

⟵ 50.



COMPROBACION A FLEXION ESVIADA

PILAS 1 a 6

Esfuerzos

proc Viaducto sobre el rio Ebro P1 DE P1-2

Esfuerzos de la barra 330 extremo dorsal P-1

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1421.52	227.57	2970.38
512 FUER X MIN envolvente (ELU) (tota	413.96	-204.81	905.53
513 FUER Y MAX envolvente (ELU) (tota	1421.52	227.57	2970.36
514 FUER Y MIN envolvente (ELU) (tota	421.64	-204.81	615.35
515 FUER Z MAX envolvente (ELU) (tota	541.14	-264.58	1055.01
516 FUER Z MIN envolvente (ELU) (tota	544.94	264.58	1063.88
517 MOME X MAX envolvente (ELU) (tota	543.04	0.00	1059.44
518 MOME X MIN envolvente (ELU) (tota	543.04	0.00	1059.44
519 MOME Y MAX envolvente (ELU) (tota	544.94	264.58	1063.88
520 MOME Y MIN envolvente (ELU) (tota	541.14	-264.58	1055.01
521 MOME Z MAX envolvente (ELU) (tota	1421.52	227.57	2970.38
522 MOME Z MIN envolvente (ELU) (tota	421.64	-204.81	615.35

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 338 extremo dorsal P-2

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1429.51	-228.21	2989.00
512 FUER X MIN envolvente (ELU) (tota	364.39	205.39	970.15
513 FUER Y MAX envolvente (ELU) (tota	1429.50	-228.21	2988.99
514 FUER Y MIN envolvente (ELU) (tota	383.83	205.39	405.61
515 FUER Z MAX envolvente (ELU) (tota	485.29	-265.16	924.77
516 FUER Z MIN envolvente (ELU) (tota	484.67	265.16	923.29
517 MOME X MAX envolvente (ELU) (tota	484.98	0.00	924.03
518 MOME X MIN envolvente (ELU) (tota	484.98	0.00	924.03
519 MOME Y MAX envolvente (ELU) (tota	484.67	265.16	923.29
520 MOME Y MIN envolvente (ELU) (tota	485.29	-265.16	924.77
521 MOME Z MAX envolvente (ELU) (tota	1429.51	-228.21	2989.00
522 MOME Z MIN envolvente (ELU) (tota	383.83	205.39	405.61

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 346 extremo dorsal P-3

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1468.02	222.25	3078.83
512 FUER X MIN envolvente (ELU) (tota	398.90	-200.03	1081.16
513 FUER Y MAX envolvente (ELU) (tota	1468.02	222.25	3078.82
514 FUER Y MIN envolvente (ELU) (tota	421.67	-200.03	463.45
515 FUER Z MAX envolvente (ELU) (tota	528.87	-259.80	1026.40
516 FUER Z MIN envolvente (ELU) (tota	528.89	259.80	1026.44
517 MOME X MAX envolvente (ELU) (tota	528.88	0.00	1026.42
518 MOME X MIN envolvente (ELU) (tota	528.88	0.00	1026.42
519 MOME Y MAX envolvente (ELU) (tota	528.89	259.80	1026.44
520 MOME Y MIN envolvente (ELU) (tota	528.87	-259.80	1026.40
521 MOME Z MAX envolvente (ELU) (tota	1468.02	222.25	3078.84
522 MOME Z MIN envolvente (ELU) (tota	421.67	-200.03	463.44

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 354 extremo dorsal P-4

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1456.15	222.57	3051.14
512 FUER X MIN envolvente (ELU) (tota	388.54	-200.32	1036.55
513 FUER Y MAX envolvente (ELU) (tota	1456.15	222.57	3051.13
514 FUER Y MIN envolvente (ELU) (tota	409.06	-200.32	454.46
515 FUER Z MAX envolvente (ELU) (tota	514.94	-260.09	993.91
516 FUER Z MIN envolvente (ELU) (tota	515.12	260.09	994.32
517 MOME X MAX envolvente (ELU) (tota	515.03	0.00	994.12
518 MOME X MIN envolvente (ELU) (tota	515.03	0.00	994.12
519 MOME Y MAX envolvente (ELU) (tota	515.12	260.09	994.32
520 MOME Y MIN envolvente (ELU) (tota	514.94	-260.09	993.91
521 MOME Z MAX envolvente (ELU) (tota	1456.15	222.57	3051.15
522 MOME Z MIN envolvente (ELU) (tota	409.06	-200.32	454.46

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 362 extremo dorsal P-5

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1456.26	-228.86	3051.41
512 FUER X MIN envolvente (ELU) (tota	372.46	205.97	872.04
513 FUER Y MAX envolvente (ELU) (tota	1456.25	-228.86	3051.38
514 FUER Y MIN envolvente (ELU) (tota	387.35	205.97	455.66
515 FUER Z MAX envolvente (ELU) (tota	503.74	-265.74	967.67
516 FUER Z MIN envolvente (ELU) (tota	503.37	265.74	967.02
517 MOME X MAX envolvente (ELU) (tota	503.55	0.00	967.35
518 MOME X MIN envolvente (ELU) (tota	503.55	0.00	967.35
519 MOME Y MAX envolvente (ELU) (tota	503.37	265.74	967.02
520 MOME Y MIN envolvente (ELU) (tota	503.74	-265.74	967.67
521 MOME Z MAX envolvente (ELU) (tota	1456.26	-228.86	3051.41
522 MOME Z MIN envolvente (ELU) (tota	387.35	205.97	455.66

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 370 extremo dorsal P-6

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1521.61	205.49	3203.82
512 FUER X MIN envolvente (ELU) (tota	413.06	-184.94	919.12
513 FUER Y MAX envolvente (ELU) (tota	1445.69	205.49	3232.08
514 FUER Y MIN envolvente (ELU) (tota	516.13	-184.94	506.42
515 FUER Z MAX envolvente (ELU) (tota	588.50	-244.71	1165.38
516 FUER Z MIN envolvente (ELU) (tota	588.89	244.71	1166.50
517 MOME X MAX envolvente (ELU) (tota	588.69	0.00	1165.94
518 MOME X MIN envolvente (ELU) (tota	588.69	0.00	1165.94
519 MOME Y MAX envolvente (ELU) (tota	588.89	244.71	1166.50
520 MOME Y MIN envolvente (ELU) (tota	588.50	-244.71	1165.38
521 MOME Z MAX envolvente (ELU) (tota	1445.70	205.49	3232.11
522 MOME Z MIN envolvente (ELU) (tota	516.13	-184.94	506.42

proc Viaducto sobre el rio Ebro GARGANTA DE EBRO

Esfuerzos de la barra 333 extremo dorsal P-1

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1206.01	57.43	699.01
512 FUER X MIN envolvente (ELU) (tota	297.58	-51.69	196.61
513 FUER Y MAX envolvente (ELU) (tota	1206.00	57.43	699.01
514 FUER Y MIN envolvente (ELU) (tota	305.26	-51.69	136.18
515 FUER Z MAX envolvente (ELU) (tota	411.61	-57.43	235.74
516 FUER Z MIN envolvente (ELU) (tota	415.85	57.43	238.23
517 MOME X MAX envolvente (ELU) (tota	413.73	0.00	236.98
518 MOME X MIN envolvente (ELU) (tota	413.73	0.00	236.98
519 MOME Y MAX envolvente (ELU) (tota	415.85	57.43	238.23
520 MOME Y MIN envolvente (ELU) (tota	411.61	-57.43	235.74
521 MOME Z MAX envolvente (ELU) (tota	1206.01	57.43	699.01
522 MOME Z MIN envolvente (ELU) (tota	305.26	-51.69	136.18

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 341 extremo dorsal P-2

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1213.99	-57.60	703.71
512 FUER X MIN envolvente (ELU) (tota	248.01	51.84	208.36
513 FUER Y MAX envolvente (ELU) (tota	1213.99	-57.60	703.71
514 FUER Y MIN envolvente (ELU) (tota	267.46	51.84	83.24
515 FUER Z MAX envolvente (ELU) (tota	356.02	-57.60	203.01
516 FUER Z MIN envolvente (ELU) (tota	355.33	57.60	202.60
517 MOME X MAX envolvente (ELU) (tota	355.68	0.00	202.81
518 MOME X MIN envolvente (ELU) (tota	355.68	0.00	202.81
519 MOME Y MAX envolvente (ELU) (tota	355.33	57.60	202.60
520 MOME Y MIN envolvente (ELU) (tota	356.02	-57.60	203.01
521 MOME Z MAX envolvente (ELU) (tota	1213.99	-57.60	703.71
522 MOME Z MIN envolvente (ELU) (tota	267.46	51.84	83.24

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 349 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1252.50	56.09	726.38
512 FUER X MIN envolvente (ELU) (tota	282.52	-50.48	236.38
513 FUER Y MAX envolvente (ELU) (tota	1252.50	56.09	726.38
514 FUER Y MIN envolvente (ELU) (tota	305.29	-50.48	97.84
515 FUER Z MAX envolvente (ELU) (tota	399.55	-56.09	228.64
516 FUER Z MIN envolvente (ELU) (tota	399.58	56.09	228.66
517 MOME X MAX envolvente (ELU) (tota	399.57	0.00	228.65
518 MOME X MIN envolvente (ELU) (tota	399.57	0.00	228.65
519 MOME Y MAX envolvente (ELU) (tota	399.58	56.09	228.66
520 MOME Y MIN envolvente (ELU) (tota	399.55	-56.09	228.64
521 MOME Z MAX envolvente (ELU) (tota	1252.50	56.09	726.38
522 MOME Z MIN envolvente (ELU) (tota	305.29	-50.48	97.84

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 357 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1240.63	56.17	719.39
512 FUER X MIN envolvente (ELU) (tota	272.16	-50.56	225.12
513 FUER Y MAX envolvente (ELU) (tota	1240.63	56.17	719.39
514 FUER Y MIN envolvente (ELU) (tota	292.68	-50.56	95.57
515 FUER Z MAX envolvente (ELU) (tota	385.63	-56.17	220.44
516 FUER Z MIN envolvente (ELU) (tota	385.82	56.17	220.55
517 MOME X MAX envolvente (ELU) (tota	385.72	0.00	220.49
518 MOME X MIN envolvente (ELU) (tota	385.72	0.00	220.49
519 MOME Y MAX envolvente (ELU) (tota	385.82	56.17	220.55
520 MOME Y MIN envolvente (ELU) (tota	385.63	-56.17	220.44
521 MOME Z MAX envolvente (ELU) (tota	1240.63	56.17	719.39
522 MOME Z MIN envolvente (ELU) (tota	292.68	-50.56	95.57

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 365 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1240.75	-57.76	719.46
512 FUER X MIN envolvente (ELU) (tota	256.09	51.98	188.16
513 FUER Y MAX envolvente (ELU) (tota	1240.73	-57.76	719.45
514 FUER Y MIN envolvente (ELU) (tota	270.97	51.98	95.87
515 FUER Z MAX envolvente (ELU) (tota	374.43	-57.76	213.85
516 FUER Z MIN envolvente (ELU) (tota	374.06	57.76	213.63
517 MOME X MAX envolvente (ELU) (tota	374.24	0.00	213.74
518 MOME X MIN envolvente (ELU) (tota	374.24	0.00	213.74
519 MOME Y MAX envolvente (ELU) (tota	374.06	57.76	213.63
520 MOME Y MIN envolvente (ELU) (tota	374.43	-57.76	213.85
521 MOME Z MAX envolvente (ELU) (tota	1240.74	-57.76	719.46
522 MOME Z MIN envolvente (ELU) (tota	270.97	51.98	95.87

proc Viaducto sobre el rio Ebro

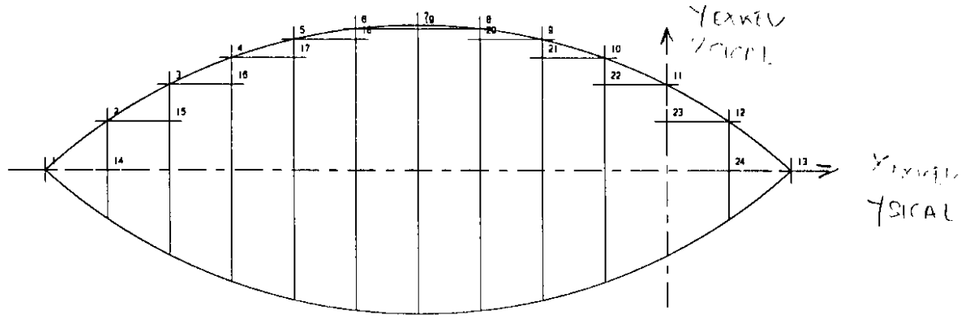
Esfuerzos de la barra 373 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

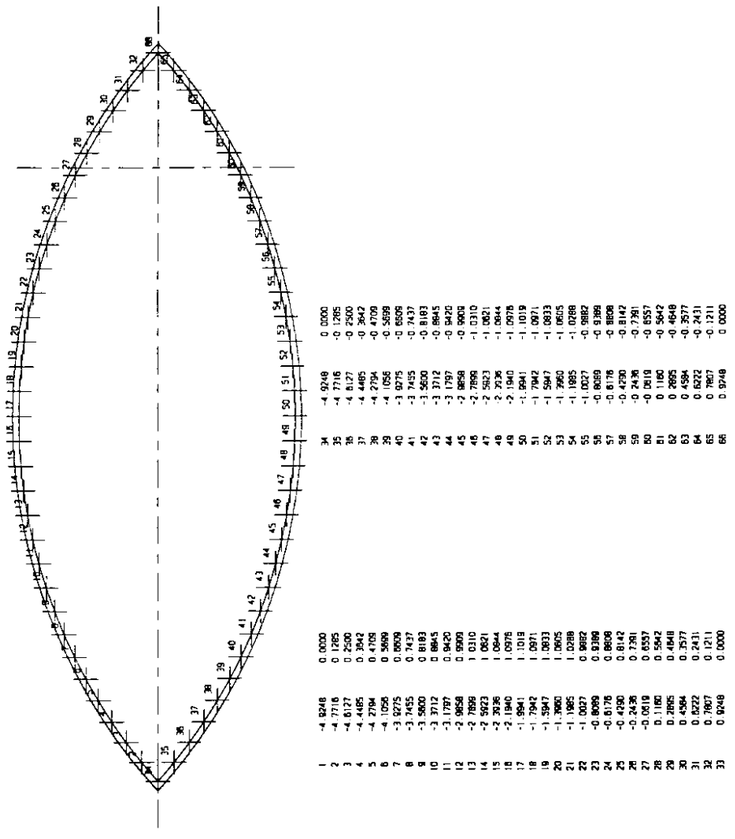
HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1306.09	51.86	757.93
512 FUER X MIN envolvente (ELU) (tota	296.68	-46.68	200.04
513 FUER Y MAX envolvente (ELU) (tota	1230.18	51.86	765.06
514 FUER Y MIN envolvente (ELU) (tota	399.75	-46.68	104.57
515 FUER Z MAX envolvente (ELU) (tota	459.21	-51.86	263.76
516 FUER Z MIN envolvente (ELU) (tota	459.56	51.86	263.96
517 MOME X MAX envolvente (ELU) (tota	459.39	0.00	263.86
518 MOME X MIN envolvente (ELU) (tota	459.39	0.00	263.86
519 MOME Y MAX envolvente (ELU) (tota	459.56	51.86	263.96
520 MOME Y MIN envolvente (ELU) (tota	459.21	-51.86	263.76
521 MOME Z MAX envolvente (ELU) (tota	1230.18	51.86	765.06
522 MOME Z MIN envolvente (ELU) (tota	399.75	-46.68	104.57

Seccion por pie de pila

Comprobacion a flexion esviada



1	-5.0000	0.0000
2	-4.5000	0.3900
3	-4.0000	0.6810
4	-3.5000	0.8935
5	-3.0000	1.0389
6	-2.5000	1.1239
7	-2.0000	1.1519
8	-1.5000	1.1239
9	-1.0000	1.0389
10	-0.5000	0.8935
11	0.0000	0.6810
12	0.5000	0.3900
13	1.0000	0.0000
14	-4.5000	0.0000
15	-4.0000	0.3900
16	-3.5000	0.6810
17	-3.0000	0.8935
18	-2.5000	1.0389
19	-2.0000	1.1239
20	-1.5000	1.0389
21	-1.0000	0.8935
22	-0.5000	0.6810
23	0.0000	0.3900
24	0.5000	0.0000



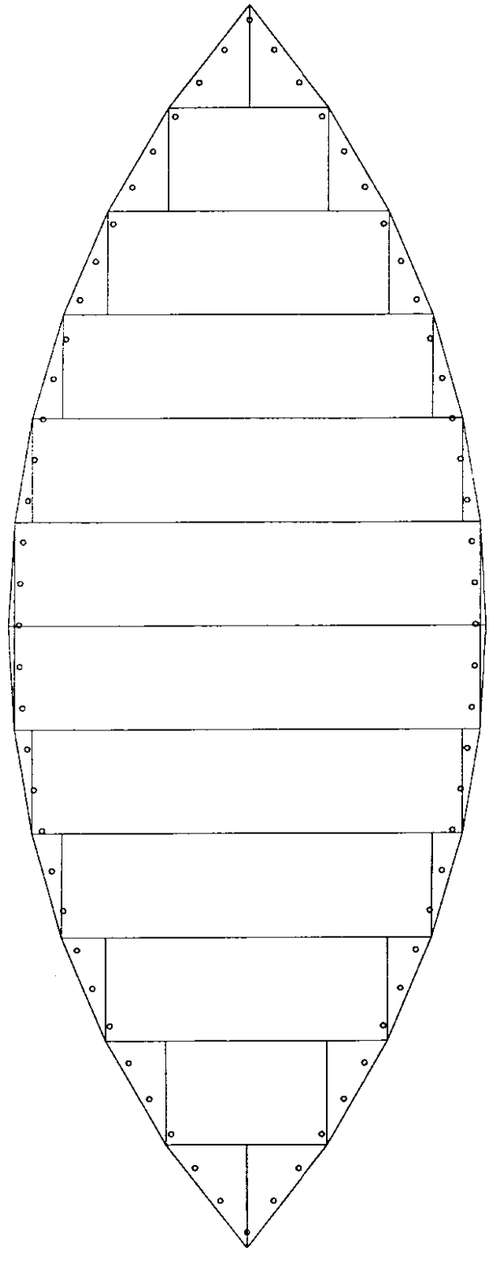
```
Puente sobre el Rio Ebro * PILA - 1 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248     0.0000    0.000491
   -4.7716     0.1285    0.000491
   -4.6127     0.2500    0.000491
   -4.4485     0.3642    0.000491
   -4.2794     0.4709    0.000491
   -4.1056     0.5699    0.000491
   -3.9275     0.6609    0.000491
   -3.7455     0.7437    0.000491
   -3.5600     0.8183    0.000491
   -3.3712     0.8845    0.000491
   -3.1797     0.9420    0.000491
   -2.9858     0.9909    0.000491
   -2.7899     1.0310    0.000491
   -2.5923     1.0621    0.000491
```

```
-2.3936    1.0844   0.000491
-2.1940    1.0976   0.000491
-1.9941    1.1019   0.000491
-1.7942    1.0971   0.000491
-1.5947    1.0833   0.000491
-1.3960    1.0605   0.000491
-1.1985    1.0288   0.000491
-1.0027    0.9882   0.000491
-0.8089    0.9389   0.000491
-0.6176    0.8808   0.000491
-0.4290    0.8142   0.000491
-0.2436    0.7391   0.000491
-0.0619    0.6557   0.000491
 0.1160    0.5642   0.000491
 0.2895    0.4648   0.000491
 0.4584    0.3577   0.000491
 0.6222    0.2431   0.000491
 0.7807    0.1211   0.000491
 0.9248    0.0000   0.000491
-4.9248    0.0000   0.000491
-4.7716   -0.1285   0.000491
-4.6127   -0.2500   0.000491
-4.4485   -0.3642   0.000491
-4.2794   -0.4709   0.000491
-4.1056   -0.5699   0.000491
-3.9275   -0.6609   0.000491
-3.7455   -0.7437   0.000491
-3.5600   -0.8183   0.000491
-3.3712   -0.8845   0.000491
-3.1797   -0.9420   0.000491
-2.9858   -0.9909   0.000491
-2.7899   -1.0310   0.000491
-2.5923   -1.0621   0.000491
-2.3936   -1.0844   0.000491
-2.1940   -1.0976   0.000491
-1.9941   -1.1019   0.000491
-1.7942   -1.0971   0.000491
-1.5947   -1.0833   0.000491
-1.3960   -1.0605   0.000491
-1.1985   -1.0288   0.000491
-1.0027   -0.9882   0.000491
-0.8089   -0.9389   0.000491
-0.6176   -0.8808   0.000491
-0.4290   -0.8142   0.000491
-0.2436   -0.7391   0.000491
-0.0619   -0.6557   0.000491
 0.1160   -0.5642   0.000491
 0.2895   -0.4648   0.000491
 0.4584   -0.3577   0.000491
 0.6222   -0.2431   0.000491
 0.7807   -0.1211   0.000491
 0.9248    0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-1
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1421.52    227.57   2970.38 1
     413.96   -204.81    905.53 2
    1421.52    227.57   2970.36 3
     421.64   -204.81    615.35 4
     541.14   -264.58   1055.01 5
     544.94    264.58   1063.88 6
     543.04      0.00   1059.44 7
     543.04      0.00   1059.44 8
     544.94    264.58   1063.88 1
     541.14   -264.58   1055.01 2
    1421.52    227.57   2970.38 3
     421.64   -204.81    615.35 4
fin
```

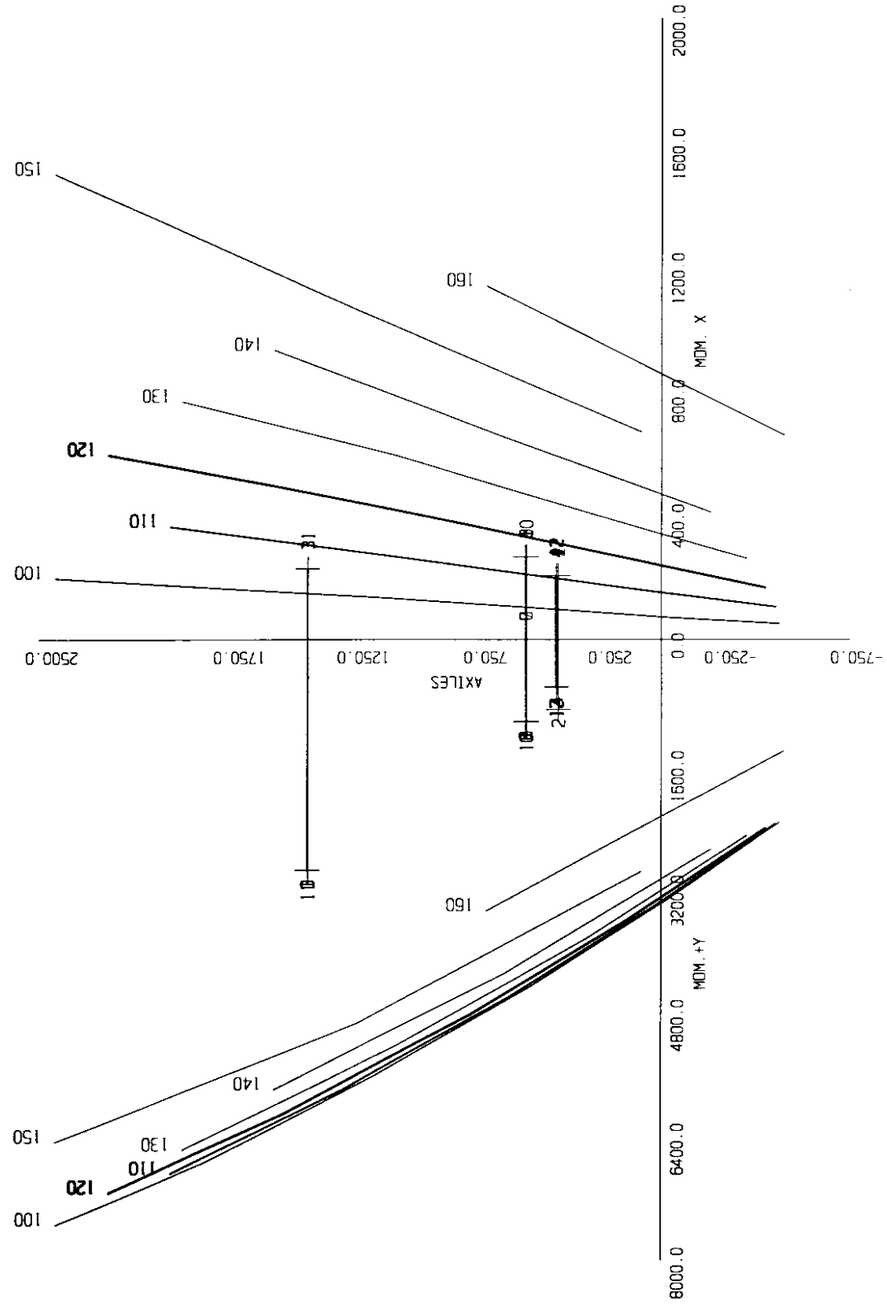
Puente sobre el Rio Ebro * PILA - 1 * (Secc. a pie de pila)

escala = 1/ 30



Puente sobre el Rio Ebro * PILA - 1 * (Secc. a pie de pila)

Pie de Pila-1

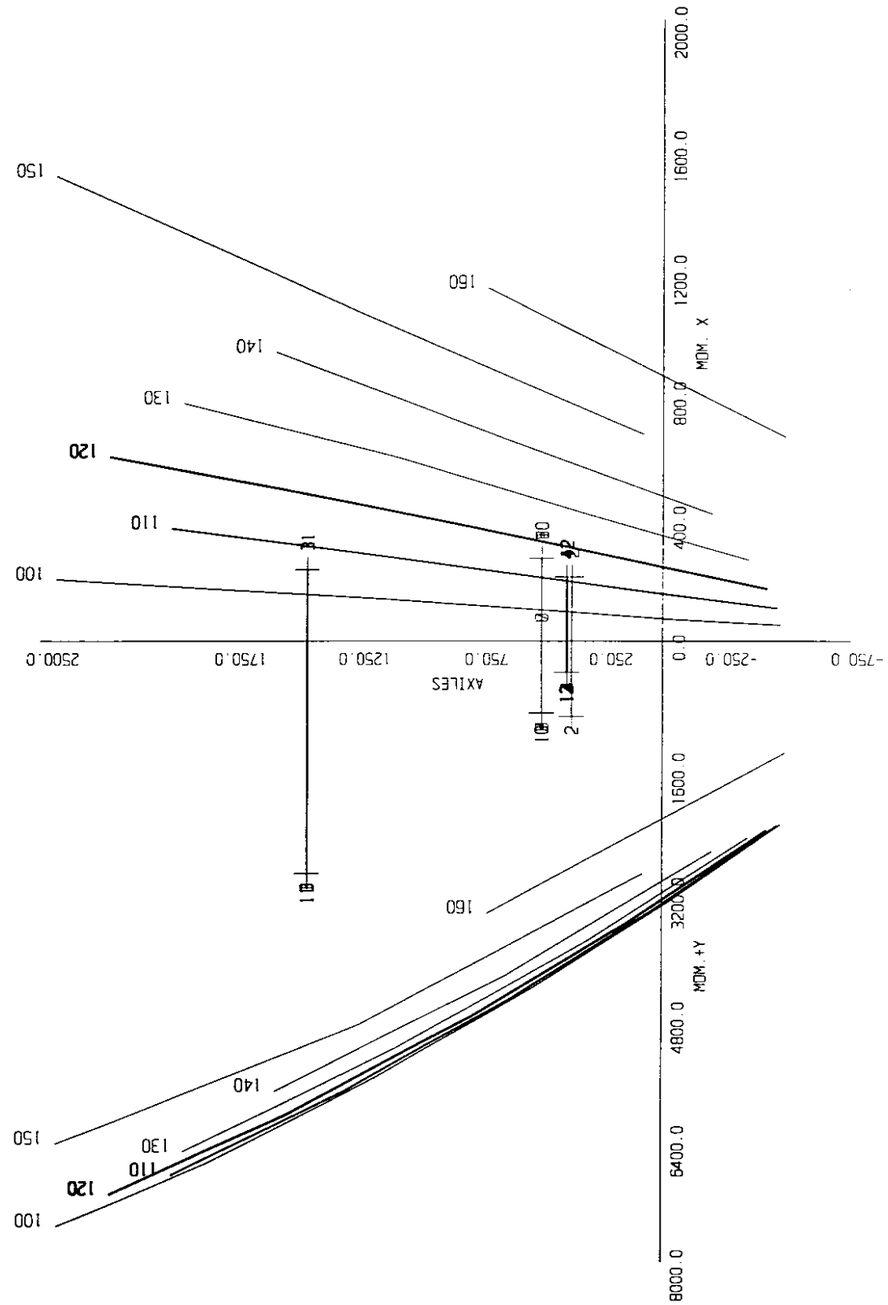


```
Puente sobre el Rio Ebro * PILA - 2 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248    0.0000   0.000491
   -4.7716    0.1285   0.000491
   -4.6127    0.2500   0.000491
   -4.4485    0.3642   0.000491
   -4.2794    0.4709   0.000491
   -4.1056    0.5699   0.000491
   -3.9275    0.6609   0.000491
   -3.7455    0.7437   0.000491
   -3.5600    0.8183   0.000491
   -3.3712    0.8845   0.000491
   -3.1797    0.9420   0.000491
   -2.9858    0.9909   0.000491
   -2.7899    1.0310   0.000491
   -2.5923    1.0621   0.000491
   -2.3936    1.0844   0.000491
   -2.1940    1.0976   0.000491
   -1.9941    1.1019   0.000491
   -1.7942    1.0971   0.000491
   -1.5947    1.0833   0.000491
   -1.3960    1.0605   0.000491
   -1.1985    1.0288   0.000491
   -1.0027    0.9882   0.000491
   -0.8089    0.9389   0.000491
   -0.6176    0.8808   0.000491
   -0.4290    0.8142   0.000491
   -0.2436    0.7391   0.000491
   -0.0619    0.6557   0.000491
    0.1160    0.5642   0.000491
    0.2895    0.4648   0.000491
    0.4584    0.3577   0.000491
    0.6222    0.2431   0.000491
    0.7807    0.1211   0.000491
    0.9248    0.0000   0.000491
   -4.9248    0.0000   0.000491
   -4.7716   -0.1285   0.000491
   -4.6127   -0.2500   0.000491
   -4.4485   -0.3642   0.000491
   -4.2794   -0.4709   0.000491
   -4.1056   -0.5699   0.000491
   -3.9275   -0.6609   0.000491
   -3.7455   -0.7437   0.000491
   -3.5600   -0.8183   0.000491
   -3.3712   -0.8845   0.000491
   -3.1797   -0.9420   0.000491
   -2.9858   -0.9909   0.000491
   -2.7899   -1.0310   0.000491
   -2.5923   -1.0621   0.000491
   -2.3936   -1.0844   0.000491
   -2.1940   -1.0976   0.000491
   -1.9941   -1.1019   0.000491
   -1.7942   -1.0971   0.000491
   -1.5947   -1.0833   0.000491
   -1.3960   -1.0605   0.000491
   -1.1985   -1.0288   0.000491
   -1.0027   -0.9882   0.000491
   -0.8089   -0.9389   0.000491
   -0.6176   -0.8808   0.000491
   -0.4290   -0.8142   0.000491
   -0.2436   -0.7391   0.000491
   -0.0619   -0.6557   0.000491
    0.1160   -0.5642   0.000491
    0.2895   -0.4648   0.000491
    0.4584   -0.3577   0.000491
    0.6222   -0.2431   0.000491
    0.7807   -0.1211   0.000491
    0.9248    0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-2
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1429.51    -228.21    2989.00 1
     364.39     205.39     970.15 2
    1429.50    -228.21    2988.99 3
     383.83     205.39     405.61 4
     485.29    -265.16     924.77 5
     484.67     265.16     923.29 6
     484.98       0.00     924.03 7
     484.98       0.00     924.03 8
     484.67     265.16     923.29 1
     485.29    -265.16     924.77 2
    1429.51    -228.21    2989.00 3
     383.83     205.39     405.61 4
fin
```

Puente sobre el Rio Ebro * PILA - 2 * (Secc. a pie de pila)

Pie de Pila-2

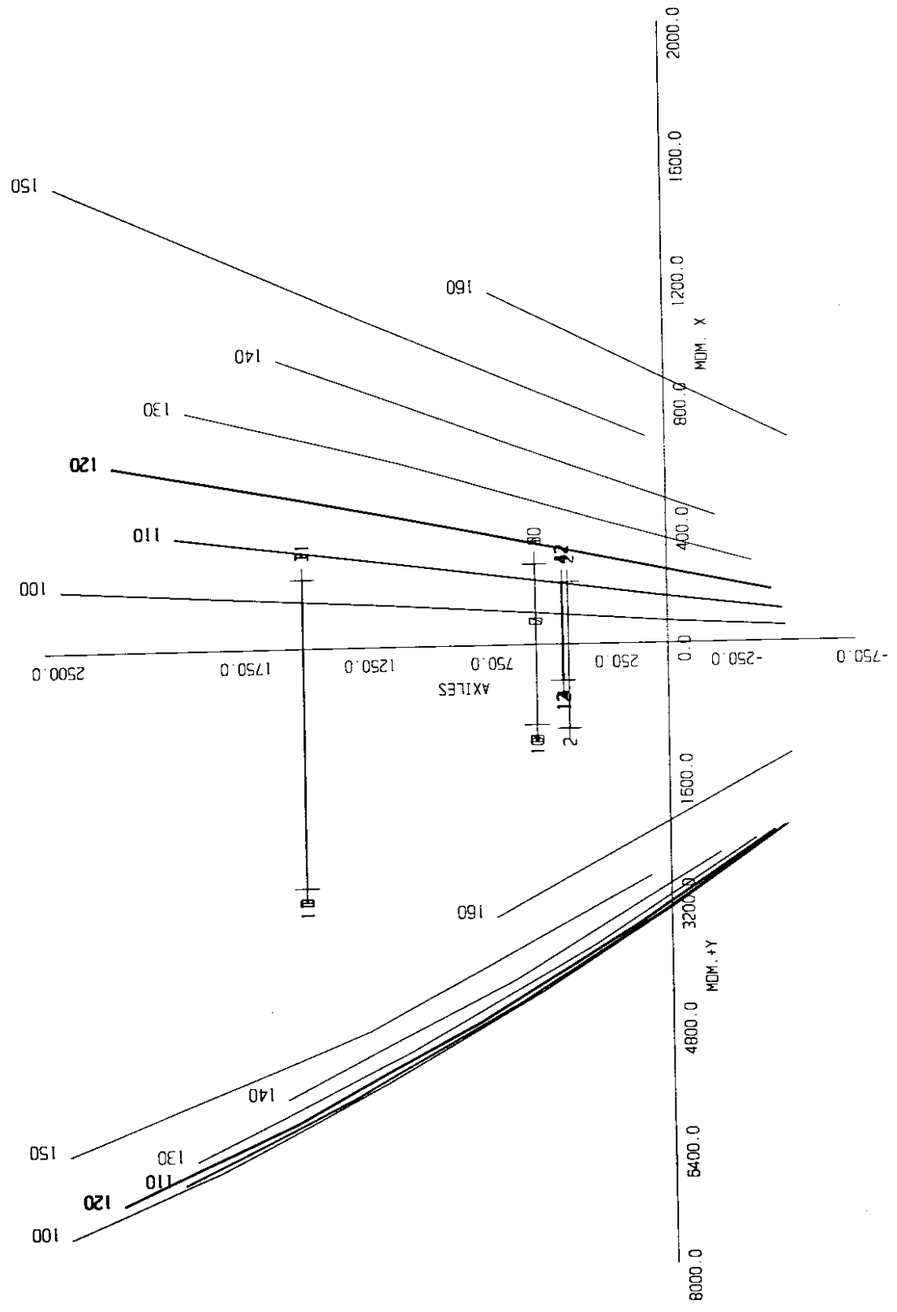


```
Puente sobre el Rio Ebro * PILA - 3 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248    0.0000   0.000491
   -4.7716    0.1285   0.000491
   -4.6127    0.2500   0.000491
   -4.4485    0.3642   0.000491
   -4.2794    0.4709   0.000491
   -4.1056    0.5699   0.000491
   -3.9275    0.6609   0.000491
   -3.7455    0.7437   0.000491
   -3.5600    0.8183   0.000491
   -3.3712    0.8845   0.000491
   -3.1797    0.9420   0.000491
   -2.9858    0.9909   0.000491
   -2.7899    1.0310   0.000491
   -2.5923    1.0621   0.000491
   -2.3936    1.0844   0.000491
   -2.1940    1.0976   0.000491
   -1.9941    1.1019   0.000491
   -1.7942    1.0971   0.000491
   -1.5947    1.0833   0.000491
   -1.3960    1.0605   0.000491
   -1.1985    1.0288   0.000491
   -1.0027    0.9882   0.000491
   -0.8089    0.9389   0.000491
   -0.6176    0.8808   0.000491
   -0.4290    0.8142   0.000491
   -0.2436    0.7391   0.000491
   -0.0619    0.6557   0.000491
    0.1160    0.5642   0.000491
    0.2895    0.4648   0.000491
    0.4584    0.3577   0.000491
    0.6222    0.2431   0.000491
    0.7807    0.1211   0.000491
    0.9248    0.0000   0.000491
   -4.9248    0.0000   0.000491
   -4.7716   -0.1285   0.000491
   -4.6127   -0.2500   0.000491
   -4.4485   -0.3642   0.000491
   -4.2794   -0.4709   0.000491
   -4.1056   -0.5699   0.000491
   -3.9275   -0.6609   0.000491
   -3.7455   -0.7437   0.000491
   -3.5600   -0.8183   0.000491
   -3.3712   -0.8845   0.000491
   -3.1797   -0.9420   0.000491
   -2.9858   -0.9909   0.000491
   -2.7899   -1.0310   0.000491
   -2.5923   -1.0621   0.000491
   -2.3936   -1.0844   0.000491
   -2.1940   -1.0976   0.000491
   -1.9941   -1.1019   0.000491
   -1.7942   -1.0971   0.000491
   -1.5947   -1.0833   0.000491
   -1.3960   -1.0605   0.000491
   -1.1985   -1.0288   0.000491
   -1.0027   -0.9882   0.000491
   -0.8089   -0.9389   0.000491
   -0.6176   -0.8808   0.000491
   -0.4290   -0.8142   0.000491
   -0.2436   -0.7391   0.000491
   -0.0619   -0.6557   0.000491
    0.1160   -0.5642   0.000491
    0.2895   -0.4648   0.000491
    0.4584   -0.3577   0.000491
    0.6222   -0.2431   0.000491
    0.7807   -0.1211   0.000491
    0.9248    0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-3
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1468.02     222.25    3078.83 1
     398.90    -200.03    1081.16 2
    1468.02     222.25    3078.82 3
     421.67    -200.03     463.45 4
     528.87    -259.80    1026.40 5
     528.89     259.80    1026.44 6
     528.88       0.00    1026.42 7
     528.88       0.00    1026.42 8
     528.89     259.80    1026.44 1
     528.87    -259.80    1026.40 2
    1468.02     222.25    3078.84 3
     421.67    -200.03     463.44 4
fin
```

Puente sobre el Rio Ebro * PILA - 3 * (Secc. o pie de pila)

Pie de Pila-3

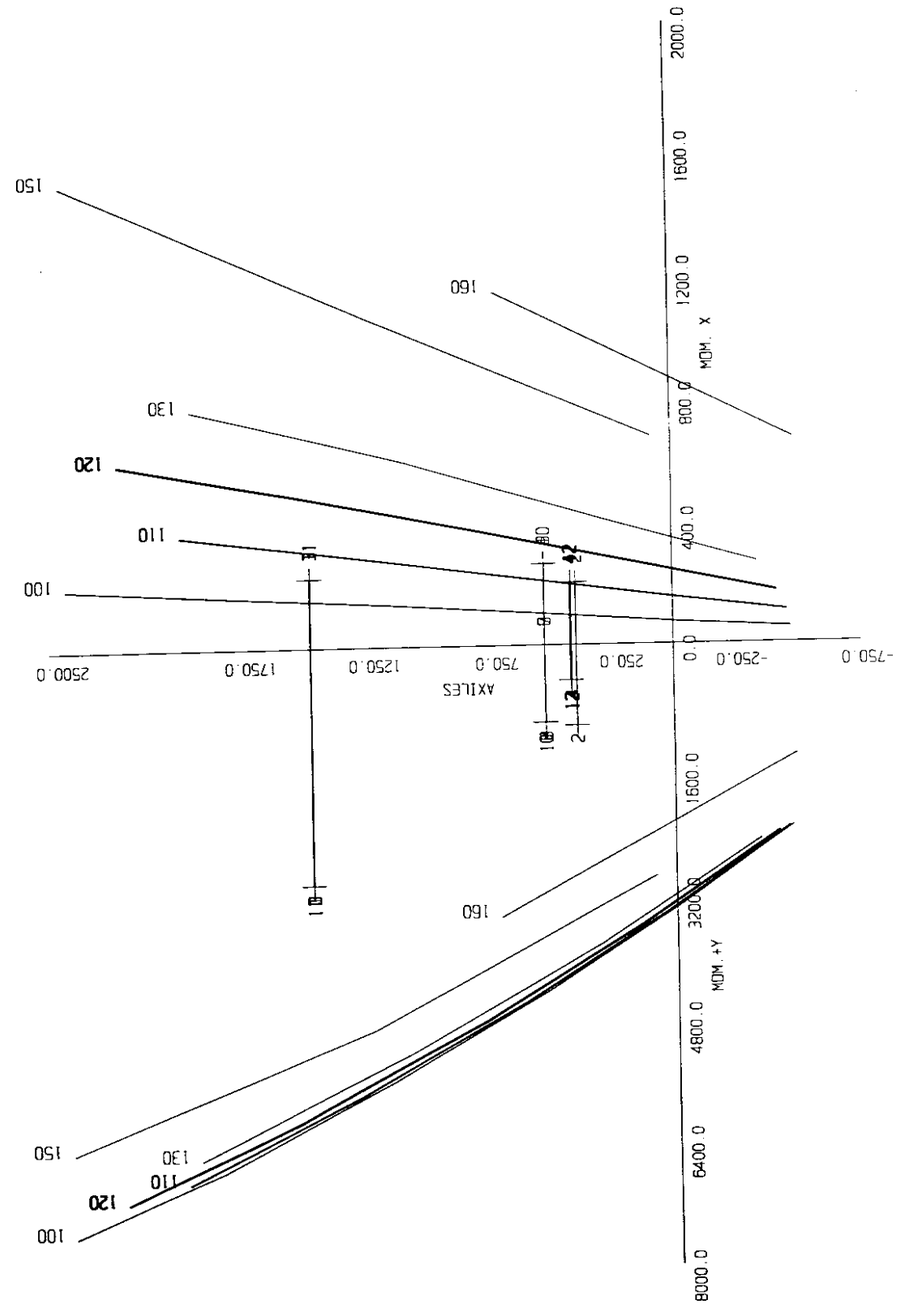


```
Puente sobre el Rio Ebro * PILA - 4 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248    0.0000   0.000491
   -4.7716    0.1285   0.000491
   -4.6127    0.2500   0.000491
   -4.4485    0.3642   0.000491
   -4.2794    0.4709   0.000491
   -4.1056    0.5699   0.000491
   -3.9275    0.6609   0.000491
   -3.7455    0.7437   0.000491
   -3.5600    0.8183   0.000491
   -3.3712    0.8845   0.000491
   -3.1797    0.9420   0.000491
   -2.9858    0.9909   0.000491
   -2.7899    1.0310   0.000491
   -2.5923    1.0621   0.000491
   -2.3936    1.0844   0.000491
   -2.1940    1.0976   0.000491
   -1.9941    1.1019   0.000491
   -1.7942    1.0971   0.000491
   -1.5947    1.0833   0.000491
   -1.3960    1.0605   0.000491
   -1.1985    1.0288   0.000491
   -1.0027    0.9882   0.000491
   -0.8089    0.9389   0.000491
   -0.6176    0.8808   0.000491
   -0.4290    0.8142   0.000491
   -0.2436    0.7391   0.000491
   -0.0619    0.6557   0.000491
    0.1160    0.5642   0.000491
    0.2895    0.4648   0.000491
    0.4584    0.3577   0.000491
    0.6222    0.2431   0.000491
    0.7807    0.1211   0.000491
    0.9248    0.0000   0.000491
   -4.9248    0.0000   0.000491
   -4.7716   -0.1285   0.000491
   -4.6127   -0.2500   0.000491
   -4.4485   -0.3642   0.000491
   -4.2794   -0.4709   0.000491
   -4.1056   -0.5699   0.000491
   -3.9275   -0.6609   0.000491
   -3.7455   -0.7437   0.000491
   -3.5600   -0.8183   0.000491
   -3.3712   -0.8845   0.000491
   -3.1797   -0.9420   0.000491
   -2.9858   -0.9909   0.000491
   -2.7899   -1.0310   0.000491
   -2.5923   -1.0621   0.000491
   -2.3936   -1.0844   0.000491
   -2.1940   -1.0976   0.000491
   -1.9941   -1.1019   0.000491
   -1.7942   -1.0971   0.000491
   -1.5947   -1.0833   0.000491
   -1.3960   -1.0605   0.000491
   -1.1985   -1.0288   0.000491
   -1.0027   -0.9882   0.000491
   -0.8089   -0.9389   0.000491
   -0.6176   -0.8808   0.000491
   -0.4290   -0.8142   0.000491
   -0.2436   -0.7391   0.000491
   -0.0619   -0.6557   0.000491
    0.1160   -0.5642   0.000491
    0.2895   -0.4648   0.000491
    0.4584   -0.3577   0.000491
    0.6222   -0.2431   0.000491
    0.7807   -0.1211   0.000491
    0.9248    0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-4
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1456.15     222.57    3051.14 1
     388.54    -200.32    1036.55 2
    1456.15     222.57    3051.13 3
     409.06    -200.32     454.46 4
     514.94    -260.09     993.91 5
     515.12     260.09     994.32 6
     515.03       0.00     994.12 7
     515.03       0.00     994.12 8
     515.12     260.09     994.32 1
     514.94    -260.09     993.91 2
    1456.15     222.57    3051.15 3
     409.06    -200.32     454.46 4
fin
```

Puente sobre el Rio Ebro * PILA - 4 * (Secc. a pie de pila)

Pie de Pila-4

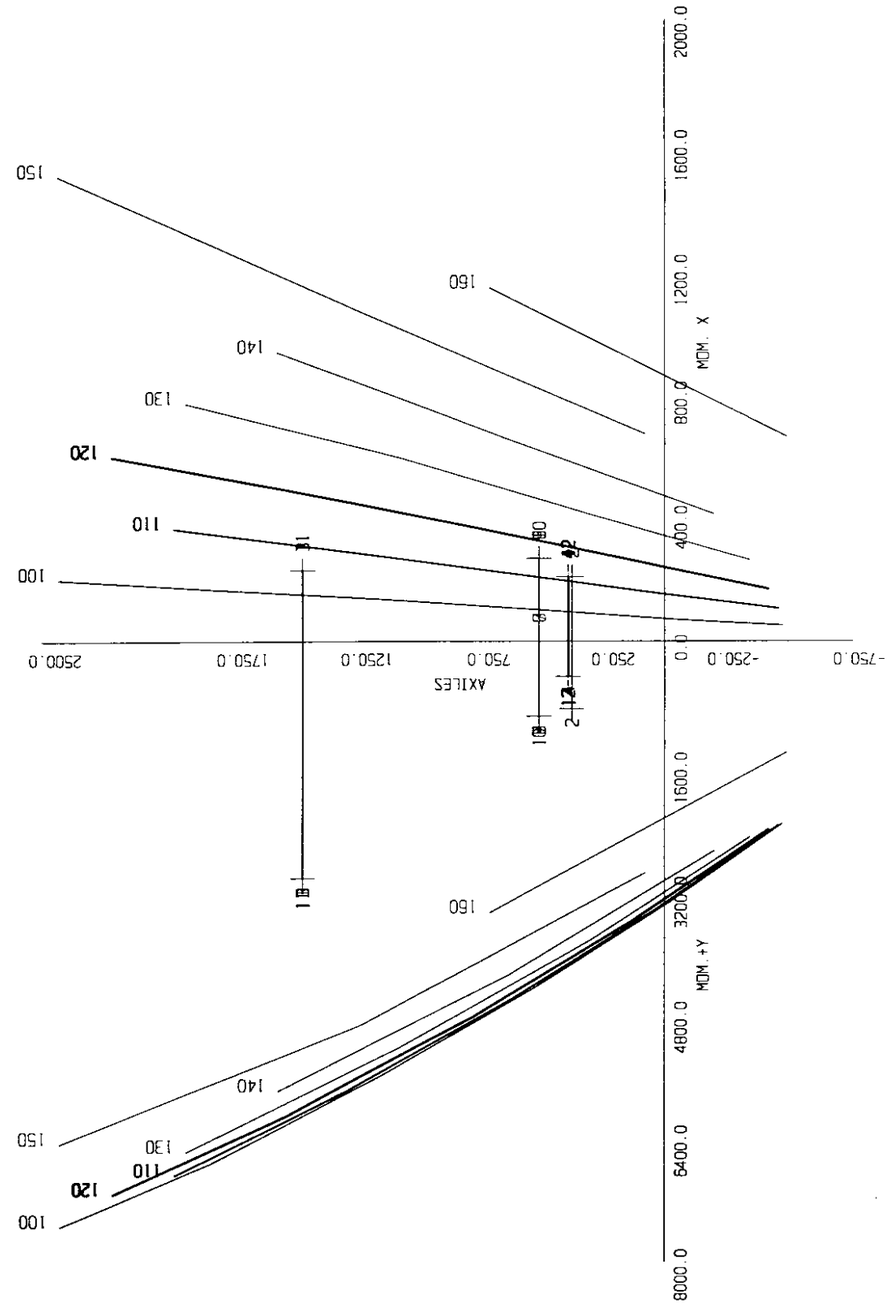


```
Puente sobre el Rio Ebro * PILA - 5 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248     0.0000   0.000491
   -4.7716     0.1285   0.000491
   -4.6127     0.2500   0.000491
   -4.4485     0.3642   0.000491
   -4.2794     0.4709   0.000491
   -4.1056     0.5699   0.000491
   -3.9275     0.6609   0.000491
   -3.7455     0.7437   0.000491
   -3.5600     0.8183   0.000491
   -3.3712     0.8845   0.000491
   -3.1797     0.9420   0.000491
   -2.9858     0.9909   0.000491
   -2.7899     1.0310   0.000491
   -2.5923     1.0621   0.000491
   -2.3936     1.0844   0.000491
   -2.1940     1.0976   0.000491
   -1.9941     1.1019   0.000491
   -1.7942     1.0971   0.000491
   -1.5947     1.0833   0.000491
   -1.3960     1.0605   0.000491
   -1.1985     1.0288   0.000491
   -1.0027     0.9882   0.000491
   -0.8089     0.9389   0.000491
   -0.6176     0.8808   0.000491
   -0.4290     0.8142   0.000491
   -0.2436     0.7391   0.000491
   -0.0619     0.6557   0.000491
    0.1160     0.5642   0.000491
    0.2895     0.4648   0.000491
    0.4584     0.3577   0.000491
    0.6222     0.2431   0.000491
    0.7807     0.1211   0.000491
    0.9248     0.0000   0.000491
   -4.9248     0.0000   0.000491
   -4.7716    -0.1285   0.000491
   -4.6127    -0.2500   0.000491
   -4.4485    -0.3642   0.000491
   -4.2794    -0.4709   0.000491
   -4.1056    -0.5699   0.000491
   -3.9275    -0.6609   0.000491
   -3.7455    -0.7437   0.000491
   -3.5600    -0.8183   0.000491
   -3.3712    -0.8845   0.000491
   -3.1797    -0.9420   0.000491
   -2.9858    -0.9909   0.000491
   -2.7899    -1.0310   0.000491
   -2.5923    -1.0621   0.000491
   -2.3936    -1.0844   0.000491
   -2.1940    -1.0976   0.000491
   -1.9941    -1.1019   0.000491
   -1.7942    -1.0971   0.000491
   -1.5947    -1.0833   0.000491
   -1.3960    -1.0605   0.000491
   -1.1985    -1.0288   0.000491
   -1.0027    -0.9882   0.000491
   -0.8089    -0.9389   0.000491
   -0.6176    -0.8808   0.000491
   -0.4290    -0.8142   0.000491
   -0.2436    -0.7391   0.000491
   -0.0619    -0.6557   0.000491
    0.1160    -0.5642   0.000491
    0.2895    -0.4648   0.000491
    0.4584    -0.3577   0.000491
    0.6222    -0.2431   0.000491
    0.7807    -0.1211   0.000491
    0.9248     0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-5
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1456.26    -228.86    3051.41 1
     372.46     205.97     872.04 2
    1456.25    -228.86    3051.38 3
     387.35     205.97     455.66 4
     503.74    -265.74     967.67 5
     503.37     265.74     967.02 6
     503.55       0.00     967.35 7
     503.55       0.00     967.35 8
     503.37     265.74     967.02 1
     503.74    -265.74     967.67 2
    1456.26    -228.86    3051.41 3
     387.35     205.97     455.66 4
fin
```

Puente sobre el Rio Ebro * PILA - 5 * (Secc. a pie de pilo)

Pie de Pila-5

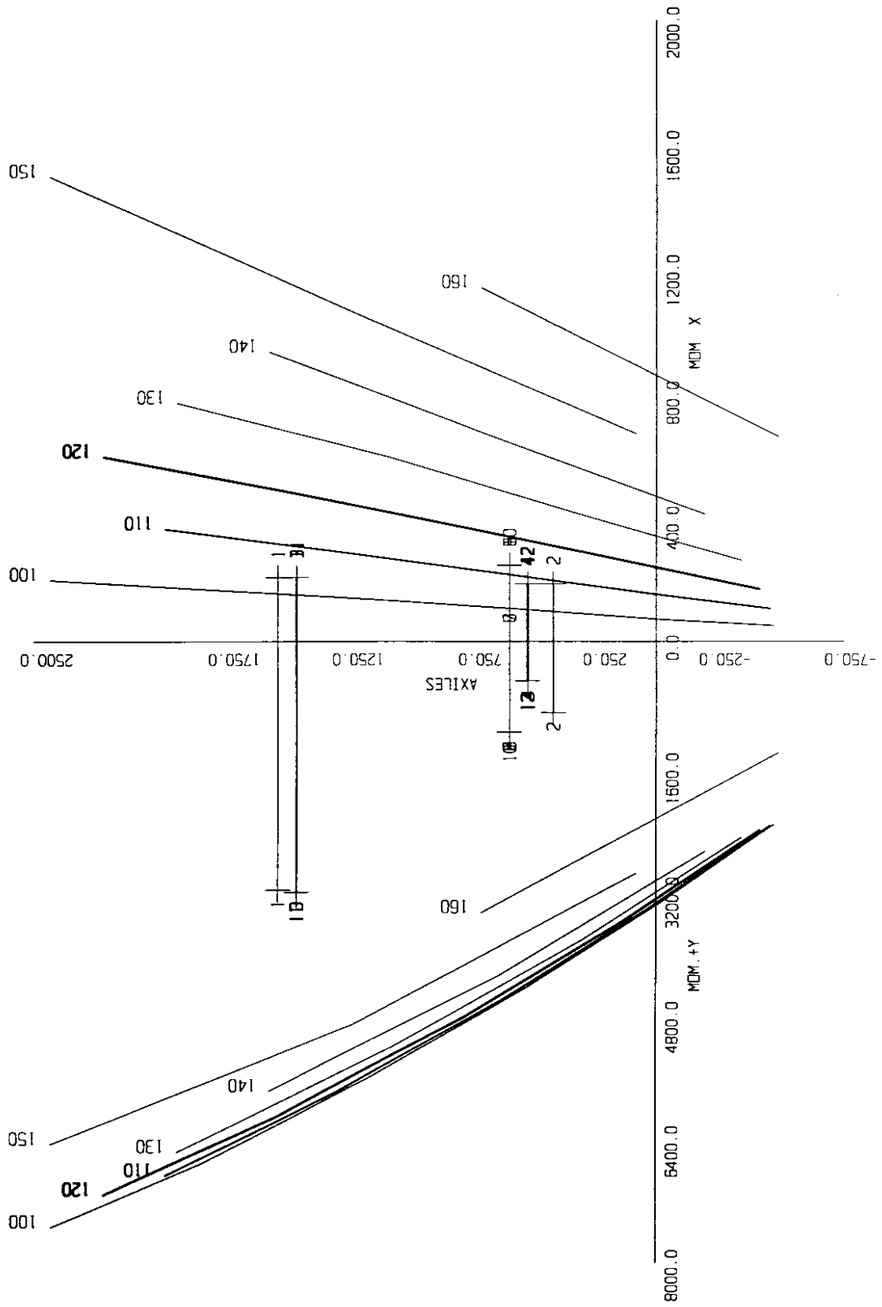


```
Puente sobre el Rio Ebro * PILA - 6 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-4.5000  0.3900 -4.0000  0.3900 -4.0000 -0.3900 4 2
-4.0000  0.6810 -3.5000  0.6810 -3.5000 -0.6810 5 2
-3.5000  0.8935 -3.0000  0.8935 -3.0000 -0.8935 6 2
-3.0000  1.0389 -2.5000  1.0389 -2.5000 -1.0389 7 2
-2.5000  1.1239 -2.0000  1.1239 -2.0000 -1.1239 8 2
-2.0000  1.1239 -1.5000  1.1239 -1.5000 -1.1239 8 2
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 7 2
-1.0000  0.8935 -0.5000  0.8935 -0.5000 -0.8935 6 2
-0.5000  0.6810  0.0000  0.6810  0.0000 -0.6810 5 2
 0.0000  0.3900  0.5000  0.3900  0.5000 -0.3900 4 2
tri
-5.0000  0.0000 -4.5000  0.3900 -4.5000  0.0000 2
-4.5000  0.3900 -4.0000  0.6810 -4.0000  0.3900 2
-4.0000  0.6810 -3.5000  0.8935 -3.5000  0.6810 2
-3.5000  0.8935 -3.0000  1.0389 -3.0000  0.8935 2
-3.0000  1.0389 -2.5000  1.1239 -2.5000  1.0389 2
-2.5000  1.1239 -2.0000  1.1519 -2.0000  1.1239 2
-2.0000  1.1519 -1.5000  1.1239 -2.0000  1.1239 2
-1.5000  1.1239 -1.0000  1.0389 -1.5000  1.0389 2
-1.0000  1.0389 -0.5000  0.8935 -1.0000  0.8935 2
-0.5000  0.8935  0.0000  0.6810 -0.5000  0.6810 2
 0.0000  0.6810  0.5000  0.3900  0.0000  0.3900 2
 0.5000  0.3900  1.0000  0.0000  0.5000  0.0000 2
-5.0000 -0.0000 -4.5000 -0.3900 -4.5000 -0.0000 2
-4.5000 -0.3900 -4.0000 -0.6810 -4.0000 -0.3900 2
-4.0000 -0.6810 -3.5000 -0.8935 -3.5000 -0.6810 2
-3.5000 -0.8935 -3.0000 -1.0389 -3.0000 -0.8935 2
-3.0000 -1.0389 -2.5000 -1.1239 -2.5000 -1.0389 2
-2.5000 -1.1239 -2.0000 -1.1519 -2.0000 -1.1239 2
-2.0000 -1.1519 -1.5000 -1.1239 -2.0000 -1.1239 2
-1.5000 -1.1239 -1.0000 -1.0389 -1.5000 -1.0389 2
-1.0000 -1.0389 -0.5000 -0.8935 -1.0000 -0.8935 2
-0.5000 -0.8935  0.0000 -0.6810 -0.5000 -0.6810 2
 0.0000 -0.6810  0.5000 -0.3900  0.0000 -0.3900 2
 0.5000 -0.3900  1.0000 -0.0000  0.5000 -0.0000 2
ace
pun
   -4.9248    0.0000   0.000491
   -4.7716    0.1285   0.000491
   -4.6127    0.2500   0.000491
   -4.4485    0.3642   0.000491
   -4.2794    0.4709   0.000491
   -4.1056    0.5699   0.000491
   -3.9275    0.6609   0.000491
   -3.7455    0.7437   0.000491
   -3.5600    0.8183   0.000491
   -3.3712    0.8845   0.000491
   -3.1797    0.9420   0.000491
   -2.9858    0.9909   0.000491
   -2.7899    1.0310   0.000491
   -2.5923    1.0621   0.000491
   -2.3936    1.0844   0.000491
   -2.1940    1.0976   0.000491
   -1.9941    1.1019   0.000491
   -1.7942    1.0971   0.000491
   -1.5947    1.0833   0.000491
   -1.3960    1.0605   0.000491
   -1.1985    1.0288   0.000491
   -1.0027    0.9882   0.000491
   -0.8089    0.9389   0.000491
   -0.6176    0.8808   0.000491
   -0.4290    0.8142   0.000491
   -0.2436    0.7391   0.000491
   -0.0619    0.6557   0.000491
    0.1160    0.5642   0.000491
    0.2895    0.4648   0.000491
    0.4584    0.3577   0.000491
    0.6222    0.2431   0.000491
    0.7807    0.1211   0.000491
    0.9248    0.0000   0.000491
   -4.9248    0.0000   0.000491
   -4.7716   -0.1285   0.000491
   -4.6127   -0.2500   0.000491
   -4.4485   -0.3642   0.000491
   -4.2794   -0.4709   0.000491
   -4.1056   -0.5699   0.000491
   -3.9275   -0.6609   0.000491
   -3.7455   -0.7437   0.000491
   -3.5600   -0.8183   0.000491
   -3.3712   -0.8845   0.000491
   -3.1797   -0.9420   0.000491
   -2.9858   -0.9909   0.000491
   -2.7899   -1.0310   0.000491
   -2.5923   -1.0621   0.000491
   -2.3936   -1.0844   0.000491
   -2.1940   -1.0976   0.000491
   -1.9941   -1.1019   0.000491
   -1.7942   -1.0971   0.000491
   -1.5947   -1.0833   0.000491
   -1.3960   -1.0605   0.000491
   -1.1985   -1.0288   0.000491
   -1.0027   -0.9882   0.000491
   -0.8089   -0.9389   0.000491
   -0.6176   -0.8808   0.000491
   -0.4290   -0.8142   0.000491
   -0.2436   -0.7391   0.000491
   -0.0619   -0.6557   0.000491
    0.1160   -0.5642   0.000491
    0.2895   -0.4648   0.000491
    0.4584   -0.3577   0.000491
    0.6222   -0.2431   0.000491
    0.7807   -0.1211   0.000491
    0.9248    0.0000   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
```

```
dib Pie de Pila-6
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1521.61     205.49    3203.82 1
     413.06    -184.94     919.12 2
    1445.69     205.49    3232.08 3
     516.13    -184.94     506.42 4
     588.50    -244.71    1165.38 5
     588.89     244.71    1166.50 6
     588.69       0.00    1165.94 7
     588.69       0.00    1165.94 8
     588.89     244.71    1166.50 1
     588.50    -244.71    1165.38 2
    1445.70     205.49    3232.11 3
     516.13    -184.94     506.42 4
fin
```

Puente sobre el Rio Ebro * PILA - 6 * (Secc. a pie de pilo)

Pie de Pila-6



Listado de resultados

Puente sobre el Rio Ebro * PILA - 1 * (Secc. a pie de pila)

NUMERO DE ELEMENTOS	259	
NUMERO DE ELEMENTOS DE HORMIGON	192	
NUMERO DE ELEMENTOS DE ACERO	66	
NUMERO DE ELEMENTOS DE PRETENSADO	1	
MODULO ELASTICIDAD ACERO	21000000.	TN/M2
RESISTENCIA DEL HORMIGON	3000.	TN/M2
RESISTENCIA DEL ACERO	51000.	TN/M2
RESISTENCIA DEL PRETENSADO	155760.	TN/M2
TENSION DEL PRETENSADO	0.	TN/M2
MODULO DE ELASTICIDAD DEL PRETENSADO	19000000.	TN/M2

AREA HORM.	9.406505	XCG.	-2.0000	YCG.	0.0000
MOM.INER. X	2.275424	MOM.INER. Y	17.364155		
AREA ACERO	0.032406	XCG.	-1.9949	YCG.	0.0000
MOM.INER. X	0.020057	MOM.INER. Y	0.105139		
AREA PRET.	0.000000	XCG.	0.0000	YCG.	0.0000
MOM.INER. X	0.000000	MOM.INER. Y	0.000000		

ELEMENTOS DE HORMIGON

NUMERO	X	Y	AREA
1	-4.4375	0.1950	0.04874999
2	-4.4375	-0.1950	0.04874999
3	-4.3125	0.1950	0.04874999
4	-4.3125	-0.1950	0.04874999
5	-4.1875	0.1950	0.04874999
6	-4.1875	-0.1950	0.04874999
7	-4.0625	0.1950	0.04874999
8	-4.0625	-0.1950	0.04874999
9	-3.9500	0.3405	0.06809995
10	-3.9500	-0.3405	0.06809995
11	-3.8500	0.3405	0.06810006
12	-3.8500	-0.3405	0.06810006
13	-3.7500	0.3405	0.06809995
14	-3.7500	-0.3405	0.06809995
15	-3.6500	0.3405	0.06810006
16	-3.6500	-0.3405	0.06810006
17	-3.5500	0.3405	0.06809995
18	-3.5500	-0.3405	0.06809995
19	-3.4583	0.4467	0.07445819
20	-3.4583	-0.4467	0.07445819
21	-3.3750	0.4467	0.07445849
22	-3.3750	-0.4467	0.07445849
23	-3.2917	0.4467	0.07445819
24	-3.2917	-0.4467	0.07445819
25	-3.2083	0.4467	0.07445819
26	-3.2083	-0.4467	0.07445819

1	-1.5312	0.5195	0.07420710
2	-1.5312	-0.5195	0.07420710
3	-1.4643	0.5195	0.07420710
4	-1.4643	-0.5195	0.07420710
5	-1.3929	0.5195	0.07420710
6	-1.3929	-0.5195	0.07420710
7	-1.3214	0.5195	0.07420710
8	-1.3214	-0.5195	0.07420710
9	-1.2500	0.5195	0.07420710
10	-1.2500	-0.5195	0.07420710
11	-1.1786	0.5195	0.07420710
12	-1.1786	-0.5195	0.07420710
13	-1.1071	0.5195	0.07420710
14	-1.1071	-0.5195	0.07420710
15	-1.0357	0.5195	0.07420710
16	-1.0357	-0.5195	0.07420710
17	-0.9643	0.5195	0.07420710
18	-0.9643	-0.5195	0.07420710
19	-0.8929	0.5195	0.07420710
20	-0.8929	-0.5195	0.07420710
21	-0.8214	0.5195	0.07420710
22	-0.8214	-0.5195	0.07420710
23	-0.7500	0.5195	0.07420710
24	-0.7500	-0.5195	0.07420710
25	-0.6786	0.5195	0.07420710
26	-0.6786	-0.5195	0.07420710
27	-0.6071	0.5195	0.07420710
28	-0.6071	-0.5195	0.07420710
29	-0.5357	0.5195	0.07420710
30	-0.5357	-0.5195	0.07420710
31	-0.4643	0.5195	0.07420710
32	-0.4643	-0.5195	0.07420710
33	-0.3929	0.5195	0.07420710
34	-0.3929	-0.5195	0.07420710
35	-0.3214	0.5195	0.07420710
36	-0.3214	-0.5195	0.07420710
37	-0.2500	0.5195	0.07420710
38	-0.2500	-0.5195	0.07420710
39	-0.1786	0.5195	0.07420710
40	-0.1786	-0.5195	0.07420710
41	-0.1071	0.5195	0.07420710
42	-0.1071	-0.5195	0.07420710
43	-0.0357	0.5195	0.07420710
44	-0.0357	-0.5195	0.07420710
45	0.0357	0.5195	0.07420710
46	0.0357	-0.5195	0.07420710
47	0.1071	0.5195	0.07420710
48	0.1071	-0.5195	0.07420710
49	0.1786	0.5195	0.07420710
50	0.1786	-0.5195	0.07420710
51	0.2500	0.5195	0.07420710
52	0.2500	-0.5195	0.07420710
53	0.3214	0.5195	0.07420710
54	0.3214	-0.5195	0.07420710
55	0.3929	0.5195	0.07420710
56	0.3929	-0.5195	0.07420710
57	0.4643	0.5195	0.07420710
58	0.4643	-0.5195	0.07420710
59	0.5312	0.5195	0.07420710
60	0.5312	-0.5195	0.07420710
61	0.6027	0.5195	0.07420710
62	0.6027	-0.5195	0.07420710
63	0.6741	0.5195	0.07420710
64	0.6741	-0.5195	0.07420710
65	0.7455	0.5195	0.07420710
66	0.7455	-0.5195	0.07420710
67	0.8170	0.5195	0.07420710
68	0.8170	-0.5195	0.07420710
69	0.8884	0.5195	0.07420710
70	0.8884	-0.5195	0.07420710
71	0.9598	0.5195	0.07420710
72	0.9598	-0.5195	0.07420710
73	1.0313	0.5195	0.07420710
74	1.0313	-0.5195	0.07420710
75	1.1027	0.5195	0.07420710
76	1.1027	-0.5195	0.07420710
77	1.1741	0.5195	0.07420710
78	1.1741	-0.5195	0.07420710
79	1.2456	0.5195	0.07420710
80	1.2456	-0.5195	0.07420710
81	1.3170	0.5195	0.07420710
82	1.3170	-0.5195	0.07420710
83	1.3884	0.5195	0.07420710
84	1.3884	-0.5195	0.07420710
85	1.4599	0.5195	0.07420710
86	1.4599	-0.5195	0.07420710
87	1.5313	0.5195	0.07420710
88	1.5313	-0.5195	0.07420710
89	1.6027	0.5195	0.07420710
90	1.6027	-0.5195	0.07420710
91	1.6742	0.5195	0.07420710
92	1.6742	-0.5195	0.07420710
93	1.7456	0.5195	0.07420710
94	1.7456	-0.5195	0.07420710
95	1.8170	0.5195	0.07420710
96	1.8170	-0.5195	0.07420710
97	1.8885	0.5195	0.07420710
98	1.8885	-0.5195	0.07420710
99	1.9599	0.5195	0.07420710
100	1.9599	-0.5195	0.07420710
101	2.0313	0.5195	0.07420710
102	2.0313	-0.5195	0.07420710
103	2.1028	0.5195	0.07420710
104	2.1028	-0.5195	0.07420710
105	2.1742	0.5195	0.07420710
106	2.1742	-0.5195	0.07420710
107	2.2456	0.5195	0.07420710
108	2.2456	-0.5195	0.07420710
109	2.3171	0.5195	0.07420710
110	2.3171	-0.5195	0.07420710
111	2.3885	0.5195	0.07420710
112	2.3885	-0.5195	0.07420710
113	2.4599	0.5195	0.07420710
114	2.4599	-0.5195	0.07420710
115	2.5314	0.5195	0.07420710
116	2.5314	-0.5195	0.07420710
117	2.6028	0.5195	0.07420710
118	2.6028	-0.5195	0.07420710
119	2.6743	0.5195	0.07420710
120	2.6743	-0.5195	0.07420710
121	2.7457	0.5195	0.07420710
122	2.7457	-0.5195	0.07420710
123	2.8171	0.5195	0.07420710
124	2.8171	-0.5195	0.07420710
125	2.8886	0.5195	0.07420710
126	2.8886	-0.5195	0.07420710
127	2.9600	0.5195	0.07420710
128	2.9600	-0.5195	0.07420710
129	3.0314	0.5195	0.07420710
130	3.0314	-0.5195	0.07420710
131	3.1029	0.5195	0.07420710
132	3.1029	-0.5195	0.07420710
133	3.1743	0.5195	0.07420710
134	3.1743	-0.5195	0.07420710
135	3.2457	0.5195	0.07420710
136	3.2457	-0.5195	0.07420710
137	3.3172	0.5195	0.07420710
138	3.3172	-0.5195	0.07420710
139	3.3886	0.5195	0.07420710
140	3.3886	-0.5195	0.07420710
141	3.4600	0.5195	0.07420710
142	3.4600	-0.5195	0.07420710

ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
1	-4.9525	0.1900	0.00049100
2	-4.[illegible]	[illegible]	0.00049100
3	-4.[illegible]	[illegible]	0.00049100
4	-4.4405	[illegible]	0.00049100
5	-4.[illegible]	[illegible]	0.00049100
6	-4.1056	0.5000	0.00049100
7	-3.9875	0.[illegible]	0.00049100
8	-3.7487	[illegible]	0.00049100
9	-3.5610	0.3100	0.00049100
10	-3.2712	0.[illegible]	0.00049100
11	-3.1797	0.1420	0.00049100
12	-2.9889	0.[illegible]	0.00049100
13	-2.7809	1.[illegible]	0.00049100
14	-2.5923	[illegible]	0.00049100
15	-2.3931	[illegible]	0.00049100
16	-2.1940	[illegible]	0.00049100
17	-1.9941	[illegible]	0.00049100
18	-1.7948	[illegible]	0.00049100
19	-1.5947	[illegible]	0.00049100
20	-1.3960	[illegible]	0.00049100
21	-1.1985	[illegible]	0.00049100
22	-1.0027	[illegible]	0.00049100
23	-0.8069	[illegible]	0.00049100
24	-0.6176	[illegible]	0.00049100
25	-0.4290	[illegible]	0.00049100
26	[illegible]	[illegible]	0.00049100
27	[illegible]	[illegible]	0.00049100
28	[illegible]	[illegible]	0.00049100
29	[illegible]	[illegible]	0.00049100
30	[illegible]	[illegible]	0.00049100
31	[illegible]	[illegible]	0.00049100
32	[illegible]	[illegible]	0.00049100
33	[illegible]	[illegible]	0.00049100
34	[illegible]	[illegible]	0.00049100
35	[illegible]	[illegible]	0.00049100
36	[illegible]	[illegible]	0.00049100
37	[illegible]	[illegible]	0.00049100
38	[illegible]	[illegible]	0.00049100
39	[illegible]	[illegible]	0.00049100
40	[illegible]	[illegible]	0.00049100
41	[illegible]	[illegible]	0.00049100
42	[illegible]	[illegible]	0.00049100
43	[illegible]	[illegible]	0.00049100
44	[illegible]	[illegible]	0.00049100
45	[illegible]	[illegible]	0.00049100
46	[illegible]	[illegible]	0.00049100
47	[illegible]	[illegible]	0.00049100
48	[illegible]	[illegible]	0.00049100
49	[illegible]	[illegible]	0.00049100
50	[illegible]	[illegible]	0.00049100
51	[illegible]	[illegible]	0.00049100
52	[illegible]	[illegible]	0.00049100
53	[illegible]	[illegible]	0.00049100
54	[illegible]	[illegible]	0.00049100
55	[illegible]	[illegible]	0.00049100
56	[illegible]	[illegible]	0.00049100
57	[illegible]	[illegible]	0.00049100
58	[illegible]	[illegible]	0.00049100
59	[illegible]	[illegible]	0.00049100
60	[illegible]	[illegible]	0.00049100
61	[illegible]	[illegible]	0.00049100
62	[illegible]	[illegible]	0.00049100
63	[illegible]	[illegible]	0.00049100
64	[illegible]	[illegible]	0.00049100
65	[illegible]	[illegible]	0.00049100
66	[illegible]	[illegible]	0.00049100
67	[illegible]	[illegible]	0.00049100
68	[illegible]	[illegible]	0.00049100
69	[illegible]	[illegible]	0.00049100
70	[illegible]	[illegible]	0.00049100
71	[illegible]	[illegible]	0.00049100
72	[illegible]	[illegible]	0.00049100
73	[illegible]	[illegible]	0.00049100
74	[illegible]	[illegible]	0.00049100
75	[illegible]	[illegible]	0.00049100
76	[illegible]	[illegible]	0.00049100
77	[illegible]	[illegible]	0.00049100
78	[illegible]	[illegible]	0.00049100
79	[illegible]	[illegible]	0.00049100
80	[illegible]	[illegible]	0.00049100
81	[illegible]	[illegible]	0.00049100
82	[illegible]	[illegible]	0.00049100
83	[illegible]	[illegible]	0.00049100
84	[illegible]	[illegible]	0.00049100
85	[illegible]	[illegible]	0.00049100
86	[illegible]	[illegible]	0.00049100
87	[illegible]	[illegible]	0.00049100
88	[illegible]	[illegible]	0.00049100
89	[illegible]	[illegible]	0.00049100
90	[illegible]	[illegible]	0.00049100
91	[illegible]	[illegible]	0.00049100
92	[illegible]	[illegible]	0.00049100
93	[illegible]	[illegible]	0.00049100
94	[illegible]	[illegible]	0.00049100
95	[illegible]	[illegible]	0.00049100
96	[illegible]	[illegible]	0.00049100
97	[illegible]	[illegible]	0.00049100
98	[illegible]	[illegible]	0.00049100
99	[illegible]	[illegible]	0.00049100
100	[illegible]	[illegible]	0.00049100
101	[illegible]	[illegible]	0.00049100
102	[illegible]	[illegible]	0.00049100
103	[illegible]	[illegible]	0.00049100
104	[illegible]	[illegible]	0.00049100
105	[illegible]	[illegible]	0.00049100
106	[illegible]	[illegible]	0.00049100
107	[illegible]	[illegible]	0.00049100
108	[illegible]	[illegible]	0.00049100
109	[illegible]	[illegible]	0.00049100
110	[illegible]	[illegible]	0.00049100
111	[illegible]	[illegible]	0.00049100
112	[illegible]	[illegible]	0.00049100
113	[illegible]	[illegible]	0.00049100
114	[illegible]	[illegible]	0.00049100
115	[illegible]	[illegible]	0.00049100
116	[illegible]	[illegible]	0.00049100
117	[illegible]	[illegible]	0.00049100
118	[illegible]	[illegible]	0.00049100
119	[illegible]	[illegible]	0.00049100
120	[illegible]	[illegible]	0.00049100
121	[illegible]	[illegible]	0.00049100
122	[illegible]	[illegible]	0.00049100
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851	-0.8436	-0.1011	0.00000000
852	-0.8818	-0.1077	0.00000000
853	-0.9190	-0.1141	0.00000000
854	-0.9552	-0.1203	0.00000000
855	-0.9904	-0.1263	0.00000000
856	-1.0246	-0.1321	0.00000000
857	-1.0577	-0.1378	0.00000000
858	-1.0898	-0.1433	0.00000000

ELEMENTOS DE PRETENSADO

PUNTO	X	Y	AREA
859	0.1010	0.1010	0.00000000

Puente sobre el Rio Ebro * PILA - 1 * (sect. a dle de pila)

RESULTADOS

ALFA	N	MX	MY
90.00	-1437.136	0.000	-7.329
90.00	-1438.655	0.000	5.750
90.00	-1423.998	0.000	32.965
90.00	-1408.585	0.000	75.365
90.00	-1387.884	0.000	129.210
90.00	-1361.466	0.000	190.744
90.00	-1328.909	0.000	264.084
90.00	-1288.783	0.000	351.487
90.00	-1241.409	0.000	456.417
90.00	-1171.674	0.000	606.879
90.00	-1029.710	0.000	1053.611
90.00	-913.775	0.000	1551.124
90.00	-477.181	0.000	3274.784
90.00	-29.101	0.000	5045.784
90.00	500.618	0.000	6962.780
90.00	1159.754	0.000	9511.681
90.00	1764.276	0.000	11850.783
90.00	2287.421	0.000	13873.183
90.00	2910.203	0.000	16276.187
90.00	3636.618	0.000	19081.711
90.00	4294.518	0.000	21671.715
90.00	4907.618	0.000	24071.787
90.00	5477.697	0.000	26312.211
90.00	6055.249	0.000	28586.211
90.00	6614.146	0.000	30785.715
100.00	-1421.110	0.000	-7.329
100.00	-1433.055	0.000	5.750
100.00	-1424.486	0.197	32.965
100.00	-1409.099	0.694	75.365
100.00	-1389.272	1.481	129.210
100.00	-1363.727	2.643	190.744
100.00	-1331.126	4.854	264.084
100.00	-1291.242	7.386	351.487
100.00	-1243.465	10.433	456.417
100.00	-1176.058	14.687	606.879
100.00	-1034.257	21.056	1053.611
100.00	-909.715	31.174	1560.648
100.00	-470.565	50.465	3257.360
100.00	-20.130	70.917	3357.199
100.00	525.051	102.381	4464.278
100.00	1149.168	135.348	5609.184
100.00	1836.699	167.666	6730.843
100.00	2432.621	197.530	7541.926
100.00	3054.994	220.371	8282.946
100.00	3701.820	241.641	8940.264
100.00	4369.834	258.403	9502.710
100.00	5053.890	272.068	9960.821
100.00	5751.728	282.057	10306.957
100.00	6461.451	288.225	10535.030
100.00	7179.085	289.410	10640.120

110.00	-1437.136	0.000	-7.328
110.00	-1436.108	0.000	-6.634
110.00	-1429.650	0.154	14.287
110.00	-1411.242	0.899	50.715
110.00	-1357.227	2.436	103.146
110.00	-1271.346	4.994	171.435
110.00	-1338.505	8.806	255.314
110.00	-1098.116	14.094	355.465
110.00	-1249.286	20.876	473.050
110.00	-1194.063	29.650	605.906
110.00	-1045.015	42.203	973.485
110.00	-847.000	65.941	1553.902
110.00	-497.203	104.533	2271.455
110.00	32.917	154.432	3443.562
110.00	611.448	216.034	4999.336
110.00	1279.918	287.750	5183.904
110.00	1978.134	362.273	6877.701
110.00	2556.588	411.591	7693.018
110.00	3050.078	463.820	8430.329
110.00	3586.640	504.778	9078.108
110.00	4021.984	540.502	9621.628
110.00	4348.497	564.055	10047.399
110.00	4477.318	584.679	10353.877
110.00	4617.915	598.765	10527.871
110.00	4667.114	604.790	10609.871
120.00	-1437.136	0.000	-7.328
120.00	-1436.108	0.000	-7.328
120.00	-1429.650	0.000	-7.328
120.00	-1411.242	0.899	22.507
120.00	-1358.227	2.436	69.230
120.00	-1271.346	5.078	134.985
120.00	-1160.956	11.797	219.502
120.00	-1026.757	20.000	322.322
120.00	-868.477	31.307	443.739
120.00	-686.117	44.981	586.140
120.00	-480.956	66.117	916.746
120.00	-266.757	106.039	1530.619
120.00	-48.277	166.853	2428.094
120.00	134.963	260.621	3606.956
120.00	269.334	366.455	4829.259
120.00	321.952	487.242	6107.180
120.00	2222.994	593.460	7122.844
120.00	2913.707	680.993	7957.128
120.00	3526.894	754.349	8689.098
120.00	4360.674	826.353	9300.249
120.00	5124.117	874.091	9796.384
120.00	5892.369	911.166	10152.086
120.00	6685.046	938.896	10366.507
120.00	7476.433	931.847	10436.771
120.00	8276.971	916.814	10348.984
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130.00	-1437.136	0.000	-7.328
130.00	-1437.136	0.000	-7.328
130.00	-1436.904	0.000	-6.649
130.00	-1426.108	0.954	23.739
130.00	-1403.758	4.836	83.177
130.00	-1370.758	12.634	166.498
130.00	-1327.163	24.601	271.856

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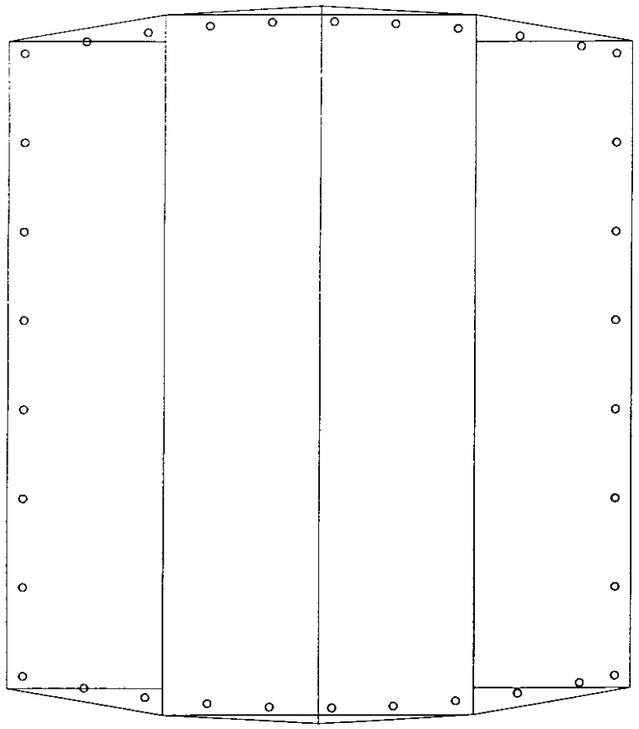
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160.00	-1014.914	1892.139	3675.161	180.00	16.95.707	620.508	-6.121
160.00	-1007.154	2435.612	4597.340	180.00	16205.459	748.110	-6.892
160.00	-1011.214	2702.585	7077.694	180.00	16406.120	1111.397	-6.944
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170.00	-965.975	419.835	336.587				
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170.00	13487.489	2072.035	2728.390				
170.00	14650.844	1527.664	2012.917				
170.00	15294.944	1190.394	1554.936				
170.00	15709.779	968.230	1252.165				
170.00	16006.150	808.503	1035.893				

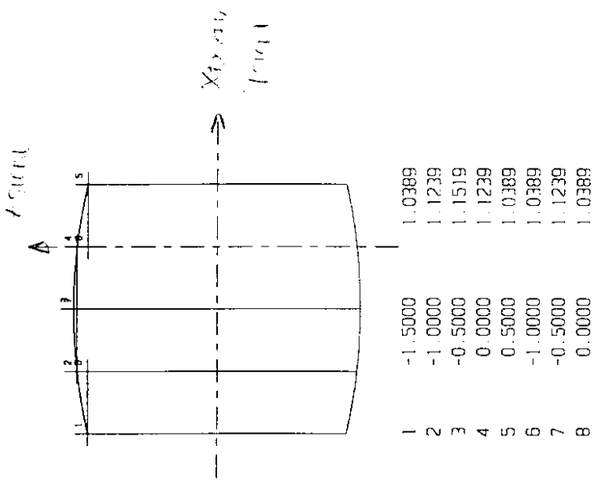
Seccion por garganta de pila

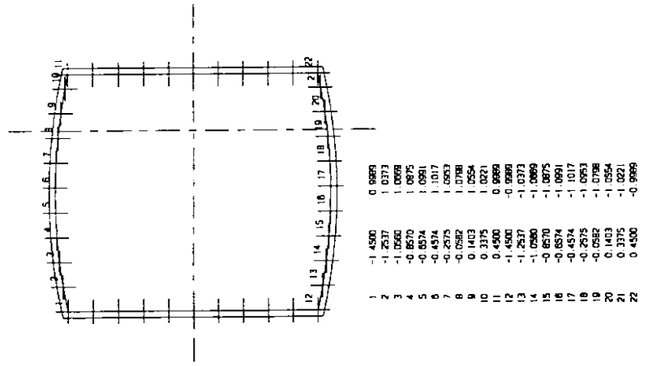
Comprobacion a flexion esviada

Puente sobre el Rio Ebro * PILA - 6 * (Secc. en garganta pila)

escala = 1/ 20





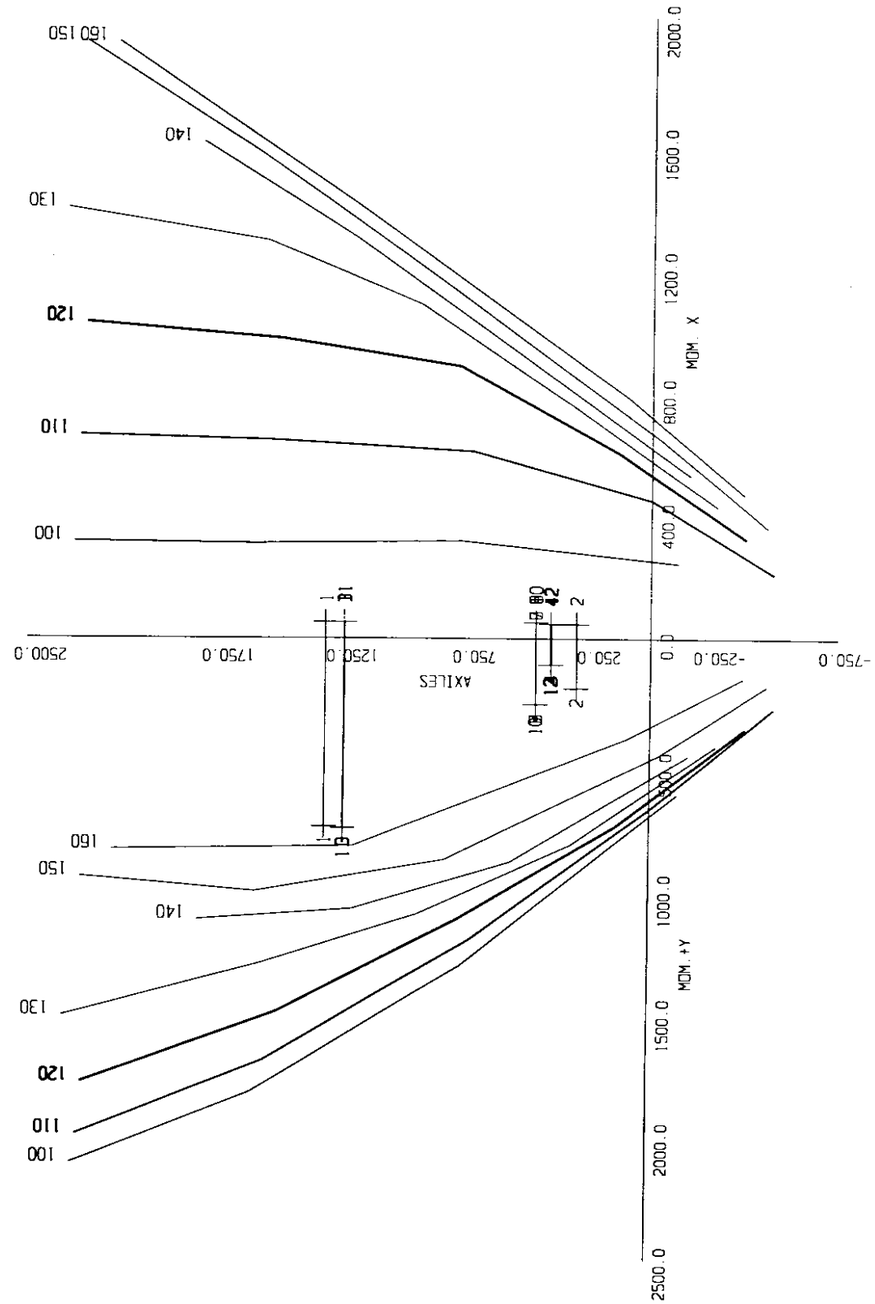


```
Puente sobre el Rio Ebro * PILA - 6 * (Secc. en garganta pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.5000  1.0389 -1.0000  1.0389 -1.0000 -1.0389 8 2
-1.0000  1.1239 -0.5000  1.1239 -0.5000 -1.1239 9 2
-0.5000  1.1239  0.0000  1.1239  0.0000 -1.1239 9 2
 0.0000  1.0389  0.5000  1.0389  0.5000 -1.0389 8 2
tri
-1.5000  1.0389 -1.0000  1.1239 -1.0000  1.0389 2
-1.0000  1.1239 -0.5000  1.1519 -0.5000  1.1239 2
-0.5000  1.1519  0.0000  1.1239 -0.5000  1.1239 2
 0.0000  1.1239  0.5000  1.0389  0.0000  1.0389 2
-1.5000 -1.0389 -1.0000 -1.1239 -1.0000 -1.0389 2
-1.0000 -1.1239 -0.5000 -1.1519 -0.5000 -1.1239 2
-0.5000 -1.1519  0.0000 -1.1239 -0.5000 -1.1239 2
 0.0000 -1.1239  0.5000 -1.0389  0.0000 -1.0389 2
ace
line
-1.4500  0.9989 -1.4500 -0.9989 8 0.000491
 0.4500  0.9989  0.4500 -0.9989 8 0.000491
pun
   -1.4500      0.9989    0.000491
   -1.2537      1.0373    0.000491
   -1.0560      1.0669    0.000491
   -0.8570      1.0875    0.000491
   -0.6574      1.0991    0.000491
   -0.4574      1.1017    0.000491
   -0.2575      1.0953    0.000491
   -0.0582      1.0798    0.000491
    0.1403      1.0554    0.000491
    0.3375      1.0221    0.000491
    0.4500      0.9989    0.000491
   -1.4500     -0.9989    0.000491
   -1.2537     -1.0373    0.000491
   -1.0560     -1.0669    0.000491
   -0.8570     -1.0875    0.000491
   -0.6574     -1.0991    0.000491
   -0.4574     -1.1017    0.000491
   -0.2575     -1.0953    0.000491
   -0.0582     -1.0798    0.000491
    0.1403     -1.0554    0.000491
    0.3375     -1.0221    0.000491
    0.4500     -0.9989    0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
```

```
140. 6
150. 7
160. 8
esf
     1306.09      51.86     757.93 1
      296.68     -46.68     200.04 2
     1230.18      51.86     765.06 3
      399.75     -46.68     104.57 4
      459.21     -51.86     263.76 5
      459.56      51.86     263.96 6
      459.39       0.00     263.86 7
      459.39       0.00     263.86 8
      459.56      51.86     263.96 1
      459.21     -51.86     263.76 2
     1230.18      51.86     765.06 3
      399.75     -46.68     104.57 4
fin
```

Puente sobre el Rio Ebro * PILA - 6 * (Secc. en garganta pila)

Garganta de Pila



Listado de resultados

Puente sobre el Rio Ebro \ PILA - 6 * (Secc. en garganta pila)

NUMERO DE ELEMENTOS	131	
NUMERO DE ELEMENTOS DE HORMIGON	92	
NUMERO DE ELEMENTOS DE ACERO	38	
NUMERO DE ELEMENTOS DE PRETENSADO	1	
MODULO ELASTICIDAD ACERO	21000000.	TN/M2
RESISTENCIA DEL HORMIGON	3000.	TN/M2
RESISTENCIA DEL ACERO	51000.	TN/M2
RESISTENCIA DEL PRETENSADO	139760	TN/M2
TENSION DEL PRETENSADO	0	TN/M2
MODULO DE ELASTICIDAD DEL PRETENSADO		

AREA HORM.	4.438613	YCG.	
MOM INER. X	1.403274	MOM INER.	
AREA ACERO	0.018638	YCG	
MOM INER. X	0.015476	MOM INER.	
AREA PRET	0.000000	YCG	
MOM INER. X	0.000000	MOM INER.	

ELEMENTOS DE HORMIGON

NUMERO			

35	-0.4583	-1.1371	0.00350000
36	-0.5833	-1.1286	0.00175002
37	-0.4167	-1.1426	0.00174999
38	-0.2500	-1.1309	0.00350001
39	-0.4167	-1.1286	0.00175001
40	0.0833	-1.0956	0.00531250
41	0.2500	-1.0602	0.01062500
42	0.0833	-1.0531	0.00531250

ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
43	-1.4500	0.9989	0.00049100
44	-1.4500	0.8133	0.00049100
45	-1.4500	0.6277	0.00049100
46	-1.4500	0.4421	0.00049100
47	-1.4500	0.2565	0.00049100
48	-1.4500	0.0709	0.00049100
49	-1.4500	-0.1147	0.00049100
50	-1.4500	-0.3003	0.00049100
51	-1.4500	-0.4859	0.00049100
52	-1.4500	-0.6715	0.00049100
53	-1.4500	-0.8571	0.00049100
54	-1.4500	-1.0427	0.00049100
55	-1.4500	-1.2283	0.00049100
56	-1.4500	-1.4139	0.00049100
57	-1.2833	0.9989	0.00049100
58	-1.2833	0.8133	0.00049100
59	-1.2833	0.6277	0.00049100
60	-1.2833	0.4421	0.00049100
61	-1.2833	0.2565	0.00049100
62	-1.2833	0.0709	0.00049100
63	-1.2833	-0.1147	0.00049100
64	-1.2833	-0.3003	0.00049100
65	-1.2833	-0.4859	0.00049100
66	-1.2833	-0.6715	0.00049100
67	-1.2833	-0.8571	0.00049100
68	-1.2833	-1.0427	0.00049100
69	-1.2833	-1.2283	0.00049100
70	-1.2833	-1.4139	0.00049100
71	-1.1167	0.9989	0.00049100
72	-1.1167	0.8133	0.00049100
73	-1.1167	0.6277	0.00049100
74	-1.1167	0.4421	0.00049100
75	-1.1167	0.2565	0.00049100
76	-1.1167	0.0709	0.00049100
77	-1.1167	-0.1147	0.00049100
78	-1.1167	-0.3003	0.00049100
79	-1.1167	-0.4859	0.00049100
80	-1.1167	-0.6715	0.00049100
81	-1.1167	-0.8571	0.00049100
82	-1.1167	-1.0427	0.00049100
83	-1.1167	-1.2283	0.00049100
84	-1.1167	-1.4139	0.00049100
85	-0.9500	0.9989	0.00049100
86	-0.9500	0.8133	0.00049100
87	-0.9500	0.6277	0.00049100
88	-0.9500	0.4421	0.00049100
89	-0.9500	0.2565	0.00049100
90	-0.9500	0.0709	0.00049100
91	-0.9500	-0.1147	0.00049100
92	-0.9500	-0.3003	0.00049100
93	-0.9500	-0.4859	0.00049100
94	-0.9500	-0.6715	0.00049100
95	-0.9500	-0.8571	0.00049100
96	-0.9500	-1.0427	0.00049100
97	-0.9500	-1.2283	0.00049100
98	-0.9500	-1.4139	0.00049100
99	-0.7833	0.9989	0.00049100
100	-0.7833	0.8133	0.00049100
101	-0.7833	0.6277	0.00049100
102	-0.7833	0.4421	0.00049100
103	-0.7833	0.2565	0.00049100
104	-0.7833	0.0709	0.00049100
105	-0.7833	-0.1147	0.00049100
106	-0.7833	-0.3003	0.00049100
107	-0.7833	-0.4859	0.00049100
108	-0.7833	-0.6715	0.00049100
109	-0.7833	-0.8571	0.00049100
110	-0.7833	-1.0427	0.00049100
111	-0.7833	-1.2283	0.00049100
112	-0.7833	-1.4139	0.00049100
113	-0.6167	0.9989	0.00049100
114	-0.6167	0.8133	0.00049100
115	-0.6167	0.6277	0.00049100
116	-0.6167	0.4421	0.00049100
117	-0.6167	0.2565	0.00049100
118	-0.6167	0.0709	0.00049100
119	-0.6167	-0.1147	0.00049100
120	-0.6167	-0.3003	0.00049100
121	-0.6167	-0.4859	0.00049100
122	-0.6167	-0.6715	0.00049100
123	-0.6167	-0.8571	0.00049100
124	-0.6167	-1.0427	0.00049100
125	-0.6167	-1.2283	0.00049100
126	-0.6167	-1.4139	0.00049100
127	-0.4500	0.9989	0.00049100
128	-0.4500	0.8133	0.00049100
129	-0.4500	0.6277	0.00049100
130	-0.4500	0.4421	0.00049100
131	-0.4500	0.2565	0.00049100
132	-0.4500	0.0709	0.00049100
133	-0.4500	-0.1147	0.00049100
134	-0.4500	-0.3003	0.00049100
135	-0.4500	-0.4859	0.00049100
136	-0.4500	-0.6715	0.00049100
137	-0.4500	-0.8571	0.00049100
138	-0.4500	-1.0427	0.00049100
139	-0.4500	-1.2283	0.00049100
140	-0.4500	-1.4139	0.00049100
141	-0.2833	0.9989	0.00049100
142	-0.2833	0.8133	0.00049100
143	-0.2833	0.6277	0.00049100
144	-0.2833	0.4421	0.00049100
145	-0.2833	0.2565	0.00049100
146	-0.2833	0.0709	0.00049100
147	-0.2833	-0.1147	0.00049100
148	-0.2833	-0.3003	0.00049100
149	-0.2833	-0.4859	0.00049100
150	-0.2833	-0.6715	0.00049100
151	-0.2833	-0.8571	0.00049100
152	-0.2833	-1.0427	0.00049100
153	-0.2833	-1.2283	0.00049100
154	-0.2833	-1.4139	0.00049100
155	-0.1167	0.9989	0.00049100
156	-0.1167	0.8133	0.00049100
157	-0.1167	0.6277	0.00049100
158	-0.1167	0.4421	0.00049100
159	-0.1167	0.2565	0.00049100
160	-0.1167	0.0709	0.00049100
161	-0.1167	-0.1147	0.00049100
162	-0.1167	-0.3003	0.00049100
163	-0.1167	-0.4859	0.00049100
164	-0.1167	-0.6715	0.00049100
165	-0.1167	-0.8571	0.00049100
166	-0.1167	-1.0427	0.00049100
167	-0.1167	-1.2283	0.00049100
168	-0.1167	-1.4139	0.00049100
169	0.0500	0.9989	0.00049100
170	0.0500	0.8133	0.00049100
171	0.0500	0.6277	0.00049100
172	0.0500	0.4421	0.00049100
173	0.0500	0.2565	0.00049100
174	0.0500	0.0709	0.00049100
175	0.0500	-0.1147	0.00049100
176	0.0500	-0.3003	0.00049100
177	0.0500	-0.4859	0.00049100
178	0.0500	-0.6715	0.00049100
179	0.0500	-0.8571	0.00049100
180	0.0500	-1.0427	0.00049100
181	0.0500	-1.2283	0.00049100
182	0.0500	-1.4139	0.00049100
183	0.2167	0.9989	0.00049100
184	0.2167	0.8133	0.00049100
185	0.2167	0.6277	0.00049100
186	0.2167	0.4421	0.00049100
187	0.2167	0.2565	0.00049100
188	0.2167	0.0709	0.00049100
189	0.2167	-0.1147	0.00049100
190	0.2167	-0.3003	0.00049100
191	0.2167	-0.4859	0.00049100
192	0.2167	-0.6715	0.00049100
193	0.2167	-0.8571	0.00049100
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195	0.2167	-1.2283	0.00049100
196	0.2167	-1.4139	0.00049100
197	0.3833	0.9989	0.00049100
198	0.3833	0.8133	0.00049100
199	0.3833	0.6277	0.00049100
200	0.3833	0.4421	0.00049100
201	0.3833	0.2565	0.00049100
202	0.3833	0.0709	0.00049100
203	0.3833	-0.1147	0.00049100
204	0.3833	-0.3003	0.00049100
205	0.3833	-0.4859	0.00049100
206	0.3833	-0.6715	0.00049100
207	0.3833	-0.8571	0.00049100
208	0.3833	-1.0427	0.00049100
209	0.3833	-1.2283	0.00049100
210	0.3833	-1.4139	0.00049100
211	0.5500	0.9989	0.00049100
212	0.5500	0.8133	0.00049100
213	0.5500	0.6277	0.00049100
214	0.5500	0.4421	0.00049100
215	0.5500	0.2565	0.00049100
216	0.5500	0.0709	0.00049100
217	0.5500	-0.1147	0.00049100
218	0.5500	-0.3003	0.00049100
219	0.5500	-0.4859	0.00049100
220	0.5500	-0.6715	0.00049100
221	0.5500	-0.8571	0.00049100
222	0.5500	-1.0427	0.00049100
223	0.5500	-1.2283	0.00049100
224	0.5500	-1.4139	0.00049100
225	0.7167	0.9989	0.00049100
226	0.7167	0.8133	0.00049100
227	0.7167	0.6277	0.00049100
228	0.7167	0.4421	0.00049100
229	0.7167	0.2565	0.00049100
230	0.7167	0.0709	0.00049100
231	0.7167	-0.1147	0.00049100
232	0.7167	-0.3003	0.00049100
233	0.7167	-0.4859	0.00049100
234	0.7167	-0.6715	0.00049100
235	0.7167	-0.8571	0.00049100
236	0.7167	-1.0427	0.00049100
237	0.7167	-1.2283	0.00049100
238	0.7167	-1.4139	0.00049100
239	0.8833	0.9989	0.00049100
240	0.8833	0.8133	0.00049100
241	0.8833	0.6277	0.00049100
242	0.8833	0.4421	0.00049100
243	0.8833	0.2565	0.00049100
244	0.8833	0.0709	0.00049100
245	0.8833	-0.1147	0.00049100
246	0.8833	-0.3003	0.00049100
247	0.8833	-0.4859	0.00049100
248	0.8833	-0.6715	0.00049100
249	0.8833	-0.8571	0.00049100
250	0.8833	-1.0427	0.00049100
251	0.8833	-1.2283	0.00049100
252	0.8833	-1.4139	0.00049100
253	1.0500	0.9989	0.00049100
254	1.0500	0.8133	0.00049100
255	1.0500	0.6277	0.00049100
256	1.0500	0.4421	0.00049100
257	1.0500	0.2565	0.00049100
258	1.0500	0.0709	0.00049100
259	1.0500	-0.1147	0.00049100
260	1.0500	-0.3003	0.00049100
261	1.0500	-0.4859	0.00049100
262	1.0500	-0.6715	0.00049100
263	1.0500	-0.8571	0.00049100
264	1.0500	-1.0427	0.00049100
265	1.0500	-1.2283	0.00049100
266	1.0500	-1.4139	0.00049100
267	1.2167	0.9989	0.00049100
268	1.2167	0.8133	0.00049100
269	1.2167	0.6277	0.00049100
270	1.2167	0.4421	0.00049100
271	1.2167	0.2565	0.00049100
272	1.2167	0.0709	0.00049100
273	1.2167	-0.1147	0.00049100
274	1.2167	-0.3003	0.00049100
275	1.2167	-0.4859	0.00049100
276	1.2167	-0.6715	0.00049100
277	1.2167	-0.8571	0.00049100
278	1.2167	-1.0427	0.00049100
279	1.2167	-1.2283	0.00049100
280	1.2167	-1.4139	0.00049100
281	1.3833	0.9989	0.00049100
282	1.3833	0.8133	0.00049100
283	1.3833	0.6277	0.00049100
284	1.3833	0.4421	0.00049100
285	1.3833	0.2565	0.00049100
286	1.3833	0.0709	0.00049100
287	1.3833	-0.1147	0.00049100
288	1.3833	-0.3003	0.00049100
289	1.3833	-0.4859	0.00049100
290	1.3833	-0.6715	0.00049100
291	1.3833	-0.8571	0.00049100
292	1.3833	-1.0427	0.00049100
293	1.3833	-1.2283	0.00049100
294	1.3833	-1.4139	0.00049100
295	1.4500	0.9989	0.00049100
296	1.4500	0.8133	0.00049100
297	1.4500	0.6277	0.00049100
298	1.4500	0.4421	0.00049100
299	1.4500	0.2565	0.00049100
300	1.4500	0.0709	0.00049100
301	1.4500	-0.1147	0.00049100
302	1.4500	-0.3003	0.00049100
303	1.4500	-0.4859	0.00049100
304	1.4500	-0.6715	0.00049100
305	1.4500	-0.8571	0.00049100
306	1.4500	-1.0427	0.00049100
307	1.4500	-1.2283	0.00049100
308	1.4500	-1.4139	0.00049100

ELEMENTOS DE PRETENSADO

NUMERO	X	Y	AREA
131	0.0000	0.0000	0.00000000

Puente entre el Río Ebro y PILA - 0 : Sólo en compresión p

RESULTADOS

ALFA	N	MX	MY
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-827.448	0.000	-16.575
90.00	-807.138	0.000	-2.713
90.00	-720.889	0.000	63.738
90.00	-604.252	0.000	151.377
90.00	-191.271	0.000	462.172
90.00	438.578	0.000	1401.108
90.00	1652.731	0.000	3312.[illegible]
90.00	3359.052	0.000	5[illegible].03
90.00	3[illegible]	0.000	[illegible]
90.00	3[illegible]	0.000	[illegible]
90.00	4[illegible]	0.000	[illegible]
90.00	5[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
90.00	[illegible]	0.000	[illegible]
100.00	-827.448	0.000	-16.575
100.00	-827.448	0.000	-16.575
100.00	-827.448	0.000	-16.575
100.00	-827.448	0.000	-16.575
100.00	-827.448	0.000	-16.575
100.00	-827.448	0.000	-16.575
100.00	-819.351	7.665	-15.396
100.00	-781.615	34.592	20.730
100.00	-706.683	60.771	95.154
100.00	-568.298	94.877	221.173
100.00	-109.391	242.134	627.655
100.00	756.867	313.035	1316.970
100.00	1595.476	305.389	1827.160
100.00	2313.757	311.689	2112.396
100.00	3038.435	317.597	2271.603
100.00	3775.807	325.420	2291.173
100.00	4546.343	315.850	2158.156
100.00	5287.063	297.834	1930.094
100.00	5994.854	278.981	1615.888
100.00	6659.575	248.031	1232.518
100.00	7095.848	190.137	931.897
100.00	7370.076	150.056	737.234
100.00	7558.940	122.211	602.825
100.00	7694.872	102.184	505.759

110.00	-827.442	0.000	-16.575	130.00	-145.524	130.249	
110.00	-827.442	0.000	-16.575	130.00	-869.121	0.192	
110.00	-827.442	0.000	-16.575	130.00	-1466.504	423.130	
110.00	-827.442	0.000	-16.575	130.00	213.031	748.534	
110.00	-827.442	0.000	-16.575	130.00	928.029	1071.402	
110.00	-827.442	0.000	-16.575	130.00	1553.573	1675.020	
110.00	-820.566	6.856	-10.047	130.00	2036.995	1304.019	
110.00	-794.611	26.970	13.927	130.00	2153.050	1431.681	
110.00	-749.439	64.784	54.367	130.00	4048.251	1238.777	
110.00	-679.785	109.592	114.581	130.00	4902.989	1217.917	
110.00	-490.639	207.433	281.803	130.00	5633.748	1169.719	
110.00	-3.477	447.124	685.002	130.00	6271.209	972.169	
110.00	717.847	601.418	1609.454	130.00	6827.310	761.736	
110.00	1544.398	138.417	1607.438	130.00	7263.798	577.184	
110.00	2293.991	551.142	1597.894	130.00	7482.624	467.227	
110.00	3015.354	659.301	2156.610	130.00	7629.874	368.578	
110.00	3730.152	668.182	2168.507	130.00	7753.787	330.245	
110.00	4380.482	639.845	2079.872	140.00	-827.442	0.000	
110.00	5072.173	508.666	1802.408	140.00	-827.442	0.000	
110.00	5.01.497	550.687	1474.187	140.00	-827.442	0.000	
110.00	5.01.139	284.338	1149.299	140.00	-827.442	0.000	
110.00	5.01.285	335.172	840.481	140.00	-828.558	0.000	
110.00	5.01.132	220.132	556.708	140.00	-804.348	0.000	
110.00	5.01.022	98.022	309.485	140.00	-771.158	0.000	
110.00	5.01.000	0.000	116.515	140.00	-729.903	0.000	
110.00	5.01.000	0.000	-16.575	140.00	-681.359	0.000	
110.00	5.01.000	0.000	-16.575	140.00	-536.183	0.000	
110.00	5.01.000	0.000	-16.575	140.00	-361.758	0.000	
110.00	5.01.000	0.000	-16.575	140.00	555.770	0.000	
110.00	5.01.000	0.000	-16.575	140.00	1.81.660	0.000	
110.00	5.01.000	0.000	-16.575	140.00	18.182.682	0.000	
110.00	5.01.000	0.000	-16.575	140.00	2.18.149	0.000	
110.00	5.01.000	0.000	-16.575	140.00	4.11.181	0.000	
110.00	5.01.000	0.000	-16.575	140.00	5.65.015	1.509.302	
110.00	5.01.000	0.000	-16.575	140.00	5754.744	1752.981	
110.00	5.01.000	0.000	-16.575	140.00	6294.765	1978.911	
110.00	5.01.000	0.000	-16.575	140.00	6944.843	2.12.436	
120.00	-801.187	963.413	1501.964	140.00	7382.726	2.20.477	
120.00	5.73.485	1015.580	1785.913	140.00	7521.243	874.703	
120.00	3168.700	1040.670	1932.284	140.00	7663.940	478.445	
120.00	3608.896	1027.202	1944.592	140.00	7770.850	370.710	
120.00	-720.638	973.198	1817.447	150.00	-827.442	0.000	
120.00	5508.490	905.764	1571.390	150.00	-827.442	0.000	
120.00	6185.053	787.153	1306.495	150.00	-827.442	0.000	
120.00	6752.640	638.810	1036.596	150.00	-827.442	0.000	
120.00	7218.828	485.398	773.010	150.00	-820.595	6.874	
120.00	7453.007	387.675	617.098	150.00	-797.842	30.143	
120.00	7620.489	319.082	508.189	150.00	-756.266	71.835	
120.00	7742.251	268.869	428.872	150.00	-696.654	130.825	
130.00	-827.442	0.000	-16.575	150.00	-600.443	225.640	
130.00	-827.442	0.000	-16.575	150.00	-464.750	356.246	
130.00	-827.442	0.000	-16.575	150.00	-37.209	638.002	
130.00	-827.442	0.000	-16.575	150.00	822.091	1134.868	
130.00	-826.488	0.953	-15.669	150.00	1583.057	1562.363	
130.00	-813.179	14.322	-3.391	150.00	2298.049	1922.173	
130.00	-796.949	39.574	19.634	150.00	2978.247	2180.424	
130.00	-745.244	77.845	53.558	150.00	3759.624	2214.851	

150.00	4479.601	2053.918	817.875
150.00	5190.316	1777.757	869.881
150.00	5913.803	1431.246	817.859
150.00	6589.123	1083.689	646.093
150.00	7083.127	815.397	501.418
150.00	7380.619	640.697	396.986
150.00	7559.268	531.084	326.147
150.00	7689.644	450.509	274.596
150.00	7787.971	389.320	235.825
160.00	-827.442	0.000	-16.575
160.00	-827.442	0.000	-16.575
160.00	-827.442	0.000	-16.575
160.00	-827.442	0.000	-16.575
160.00	-822.553	4.915	-12.088
160.00	-793.884	34.529	9.238
160.00	-742.543	87.269	38.598
160.00	-668.546	163.280	70.358
160.00	-539.597	292.983	118.486
160.00	-370.129	462.328	158.903
160.00	94.284	773.571	402.499
160.00	1188.607	1392.097	835.977
160.00	2155.804	1920.509	851.939
160.00	2982.647	2338.178	560.120
160.00	3487.435	2529.713	350.442
160.00	3966.758	2474.821	380.514
160.00	4582.922	2215.874	546.015
160.00	5349.004	1818.471	641.606
160.00	6186.199	1359.308	522.222
160.00	6801.162	1010.322	409.273
160.00	7212.148	765.896	324.146
160.00	7437.236	624.930	261.958
160.00	7597.703	523.636	217.806
160.00	7716.471	448.092	185.258
160.00	7807.079	390.041	160.525
170.00	-827.442	0.000	-16.575
170.00	-827.442	0.000	-16.575
170.00	-827.442	0.000	-16.575
170.00	-827.442	0.000	-16.575
170.00	-827.442	0.000	-16.575
170.00	-791.980	37.163	4.485
170.00	-725.006	107.866	26.237
170.00	-621.698	214.104	41.816
170.00	-457.393	383.664	76.152
170.00	-243.411	598.280	88.291
170.00	238.714	908.869	298.490
170.00	1840.716	1784.076	650.600
170.00	3041.472	2410.257	352.098
170.00	3551.255	2647.835	182.978
170.00	3788.813	2699.407	109.699
170.00	4025.405	2600.985	126.456
170.00	4657.863	2246.406	372.990
170.00	5722.958	1646.071	319.060
170.00	6492.193	1207.762	248.981
170.00	7017.267	898.290	198.642
170.00	7301.304	719.738	158.493
170.00	7498.409	594.641	130.909
170.00	7641.291	503.206	111.047
170.00	7748.468	434.074	96.243
170.00	7831.132	380.347	84.895
180.00	-827.442	0.000	-16.575
180.00	-827.442	0.000	-16.575
180.00	-827.442	0.000	-16.575
180.00	-827.442	0.000	-16.575
180.00	-827.442	0.000	-16.575
180.00	-776.584	54.201	-15.650
180.00	-684.298	151.105	-12.995
180.00	-564.443	274.774	-9.857
180.00	-352.769	493.538	-6.100
180.00	-134.475	708.589	-1.437
180.00	713.661	1188.341	-0.001
180.00	2760.490	2277.510	0.000
180.00	3493.003	2644.295	0.000
180.00	3766.457	2749.524	0.000
180.00	3895.052	2714.601	1.509
180.00	4021.059	2612.948	4.006
180.00	5140.981	1982.309	5.962
180.00	6105.978	1435.285	7.534
180.00	6767.481	1055.159	8.826
180.00	7152.630	816.813	9.831
180.00	7394.174	663.765	10.590
180.00	7565.140	554.503	11.185
180.00	7690.967	473.424	11.665
180.00	7786.528	411.365	12.060
180.00	7860.987	362.643	12.391

PILAS 7, 8, 11 y 12

Esfuerzos

proc Viaducto sobre el rio Ebro PIE DE PILA

Esfuerzos de la barra 378 extremo dorsal P-7

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	2659.37	471.29	5510.98
512 FUER X MIN envolvente (ELU) (tota	552.15	-424.16	2024.18
513 FUER Y MAX envolvente (ELU) (tota	2536.40	471.29	5595.03
514 FUER Y MIN envolvente (ELU) (tota	669.31	-424.16	-249.95
515 FUER Z MAX envolvente (ELU) (tota	858.59	-508.29	1439.18
516 FUER Z MIN envolvente (ELU) (tota	862.63	508.29	1448.64
517 MOME X MAX envolvente (ELU) (tota	858.59	-508.29	1439.18
518 MOME X MIN envolvente (ELU) (tota	862.63	508.29	1448.64
519 MOME Y MAX envolvente (ELU) (tota	862.63	508.29	1448.64
520 MOME Y MIN envolvente (ELU) (tota	858.59	-508.29	1439.18
521 MOME Z MAX envolvente (ELU) (tota	2250.24	424.16	5660.92
522 MOME Z MIN envolvente (ELU) (tota	669.31	-424.16	-249.95

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 386 extremo dorsal P-8

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	3895.38	694.25	8643.31
512 FUER X MIN envolvente (ELU) (tota	1096.22	-624.82	3300.08
513 FUER Y MAX envolvente (ELU) (tota	3239.56	624.82	9144.93
514 FUER Y MIN envolvente (ELU) (tota	1400.26	-624.82	513.10
515 FUER Z MAX envolvente (ELU) (tota	1690.54	-712.99	3546.93
516 FUER Z MIN envolvente (ELU) (tota	1697.95	712.99	3566.12
517 MOME X MAX envolvente (ELU) (tota	1690.54	-712.99	3546.93
518 MOME X MIN envolvente (ELU) (tota	1697.95	712.99	3566.12
519 MOME Y MAX envolvente (ELU) (tota	1697.95	712.99	3566.12
520 MOME Y MIN envolvente (ELU) (tota	1690.54	-712.99	3546.93
521 MOME Z MAX envolvente (ELU) (tota	3239.56	624.82	9144.93
522 MOME Z MIN envolvente (ELU) (tota	1400.25	-624.82	513.09

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 410 extremo dorsal P-11

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	4319.63	839.09	9718.47
512 FUER X MIN envolvente (ELU) (tota	1303.10	-755.18	5604.43
513 FUER Y MAX envolvente (ELU) (tota	3806.67	755.18	10024.16
514 FUER Y MIN envolvente (ELU) (tota	1627.06	-755.18	499.67
515 FUER Z MAX envolvente (ELU) (tota	1840.08	-844.55	3918.60
516 FUER Z MIN envolvente (ELU) (tota	1841.44	844.55	3937.05
517 MOME X MAX envolvente (ELU) (tota	1836.46	-839.09	3916.93
518 MOME X MIN envolvente (ELU) (tota	1845.06	839.09	3938.73
519 MOME Y MAX envolvente (ELU) (tota	1841.44	844.55	3937.05
520 MOME Y MIN envolvente (ELU) (tota	1840.08	-844.55	3918.60
521 MOME Z MAX envolvente (ELU) (tota	3806.68	755.18	10024.16
522 MOME Z MIN envolvente (ELU) (tota	1627.06	-755.18	499.67

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 418 extremo dorsal P-12

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	4522.24	-1083.19	10231.93
512 FUER X MIN envolvente (ELU) (tota	1115.47	974.87	4515.50
513 FUER Y MAX envolvente (ELU) (tota	4522.24	-1083.19	10231.92
514 FUER Y MIN envolvente (ELU) (tota	1388.08	974.87	507.37
515 FUER Z MAX envolvente (ELU) (tota	1826.58	-1061.87	3904.50
516 FUER Z MIN envolvente (ELU) (tota	1723.17	1061.87	3617.21
517 MOME X MAX envolvente (ELU) (tota	1867.29	-1083.19	3995.05
518 MOME X MIN envolvente (ELU) (tota	1682.46	1083.19	3526.66
519 MOME Y MAX envolvente (ELU) (tota	1682.46	1083.19	3526.66
520 MOME Y MIN envolvente (ELU) (tota	1867.29	-1083.19	3995.05
521 MOME Z MAX envolvente (ELU) (tota	4522.24	-1083.19	10231.93
522 MOME Z MIN envolvente (ELU) (tota	1388.08	974.87	507.37

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 381 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	1991.34	139.42	1451.85
512 FUER X MIN envolvente (ELU) (tota	191.42	-125.48	488.08
513 FUER Y MAX envolvente (ELU) (tota	1649.01	125.48	1506.89
514 FUER Y MIN envolvente (ELU) (tota	308.58	-125.48	-157.52
515 FUER Z MAX envolvente (ELU) (tota	458.56	-139.42	319.12
516 FUER Z MIN envolvente (ELU) (tota	461.02	139.42	320.97
517 MOME X MAX envolvente (ELU) (tota	459.79	0.00	320.04
518 MOME X MIN envolvente (ELU) (tota	459.79	0.00	320.04
519 MOME Y MAX envolvente (ELU) (tota	461.02	139.42	320.97
520 MOME Y MIN envolvente (ELU) (tota	458.56	-139.42	319.12
521 MOME Z MAX envolvente (ELU) (tota	1649.01	125.48	1506.89
522 MOME Z MIN envolvente (ELU) (tota	308.58	-125.48	-157.52

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 389 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	3227.35	205.38	2378.54
512 FUER X MIN envolvente (ELU) (tota	735.50	-184.84	872.31
513 FUER Y MAX envolvente (ELU) (tota	2638.34	184.84	2537.19
514 FUER Y MIN envolvente (ELU) (tota	1039.53	-184.84	69.06
515 FUER Z MAX envolvente (ELU) (tota	1289.39	-205.38	942.03
516 FUER Z MIN envolvente (ELU) (tota	1297.47	205.38	948.08
517 MOME X MAX envolvente (ELU) (tota	1293.43	0.00	945.05
518 MOME X MIN envolvente (ELU) (tota	1293.43	0.00	945.05
519 MOME Y MAX envolvente (ELU) (tota	1297.47	205.38	948.08
520 MOME Y MIN envolvente (ELU) (tota	1289.39	-205.38	942.03
521 MOME Z MAX envolvente (ELU) (tota	2638.34	184.84	2537.19
522 MOME Z MIN envolvente (ELU) (tota	1039.53	-184.84	69.06

Esfuerzos de la barra 413 extremo dorsal P-11

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	3651.61	248.23	2696.62
512 FUER X MIN envolvente (ELU) (tota	942.36	-223.41	1546.19
513 FUER Y MAX envolvente (ELU) (tota	3205.45	223.41	2797.19
514 FUER Y MIN envolvente (ELU) (tota	1266.32	-223.41	65.34
515 FUER Z MAX envolvente (ELU) (tota	1435.64	-248.23	1051.68
516 FUER Z MIN envolvente (ELU) (tota	1444.24	248.23	1058.12
517 MOME X MAX envolvente (ELU) (tota	1439.94	0.00	1054.90
518 MOME X MIN envolvente (ELU) (tota	1439.94	0.00	1054.90
519 MOME Y MAX envolvente (ELU) (tota	1444.24	248.23	1058.12
520 MOME Y MIN envolvente (ELU) (tota	1435.64	-248.23	1051.68
521 MOME Z MAX envolvente (ELU) (tota	3205.45	223.41	2797.19
522 MOME Z MIN envolvente (ELU) (tota	1266.32	-223.41	65.34

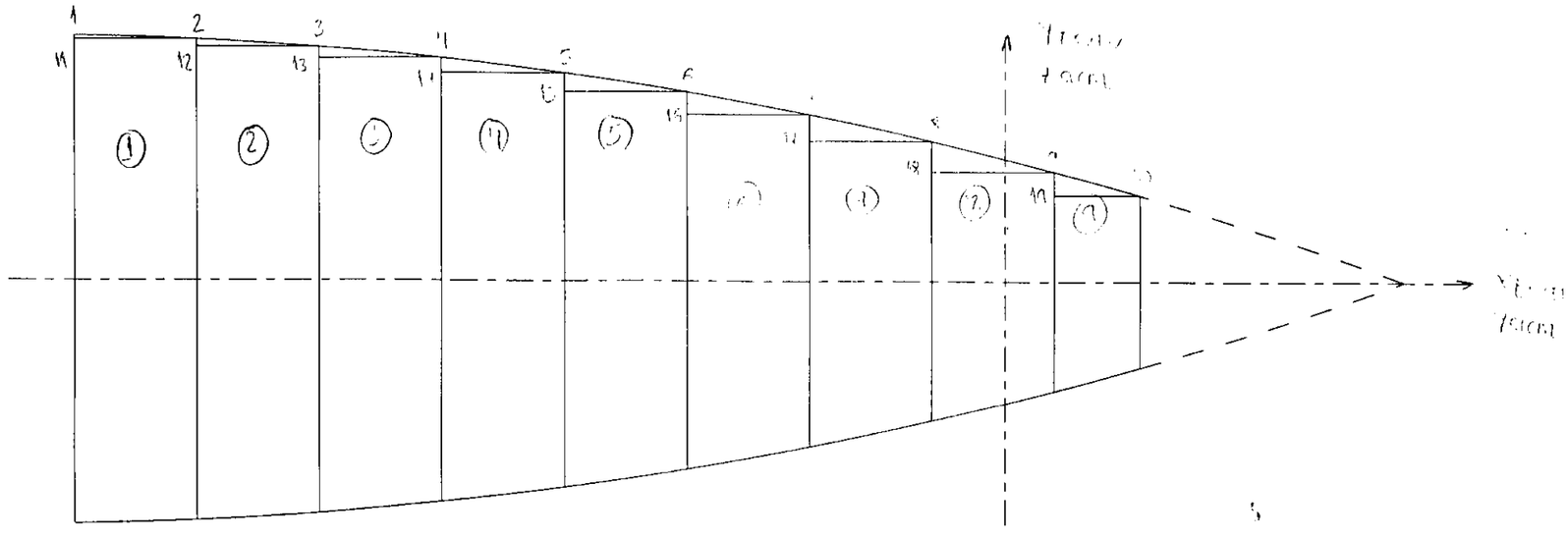
Esfuerzos de la barra 421 extremo dorsal P-12

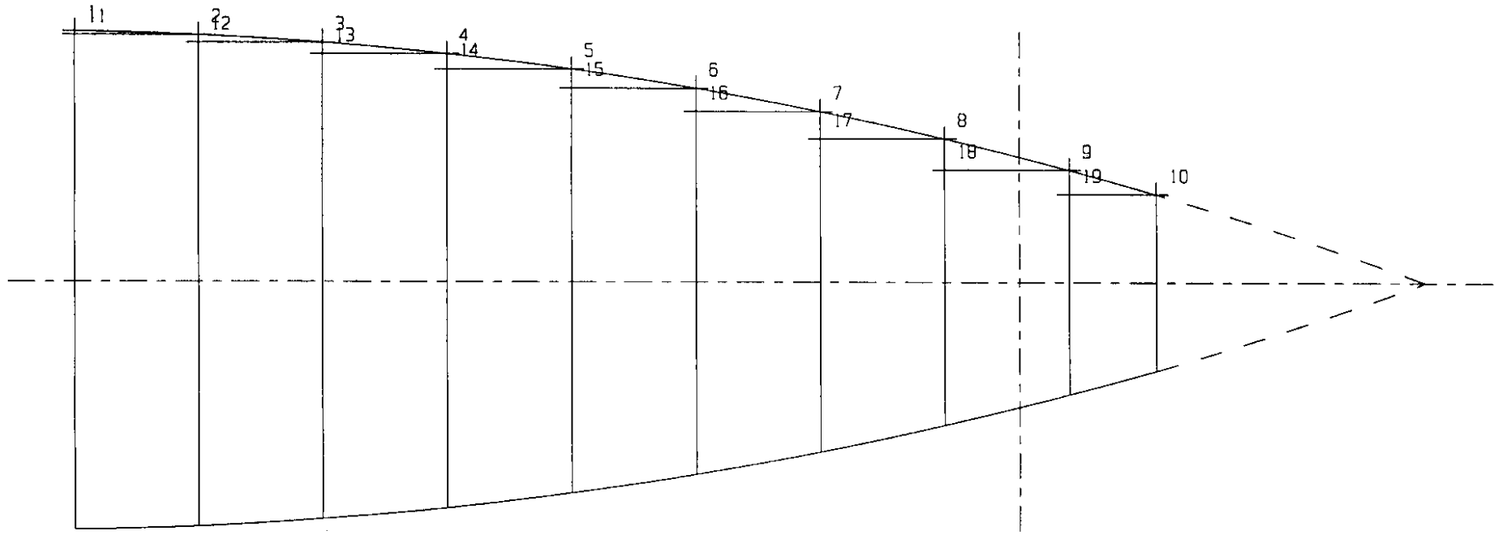
coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	3854.22	-320.44	2848.52
512 FUER X MIN envolvente (ELU) (tota	754.75	288.40	1224.53
513 FUER Y MAX envolvente (ELU) (tota	3400.60	-288.40	2853.04
514 FUER Y MIN envolvente (ELU) (tota	1027.35	288.40	67.13
515 FUER Z MAX envolvente (ELU) (tota	1466.47	-320.44	1074.79
516 FUER Z MIN envolvente (ELU) (tota	1281.64	320.44	936.22
517 MOME X MAX envolvente (ELU) (tota	1374.06	0.00	1005.50
518 MOME X MIN envolvente (ELU) (tota	1374.06	0.00	1005.50
519 MOME Y MAX envolvente (ELU) (tota	1281.64	320.44	936.22
520 MOME Y MIN envolvente (ELU) (tota	1466.47	-320.44	1074.79
521 MOME Z MAX envolvente (ELU) (tota	3400.61	-288.40	2853.04
522 MOME Z MIN envolvente (ELU) (tota	1027.35	288.40	67.13

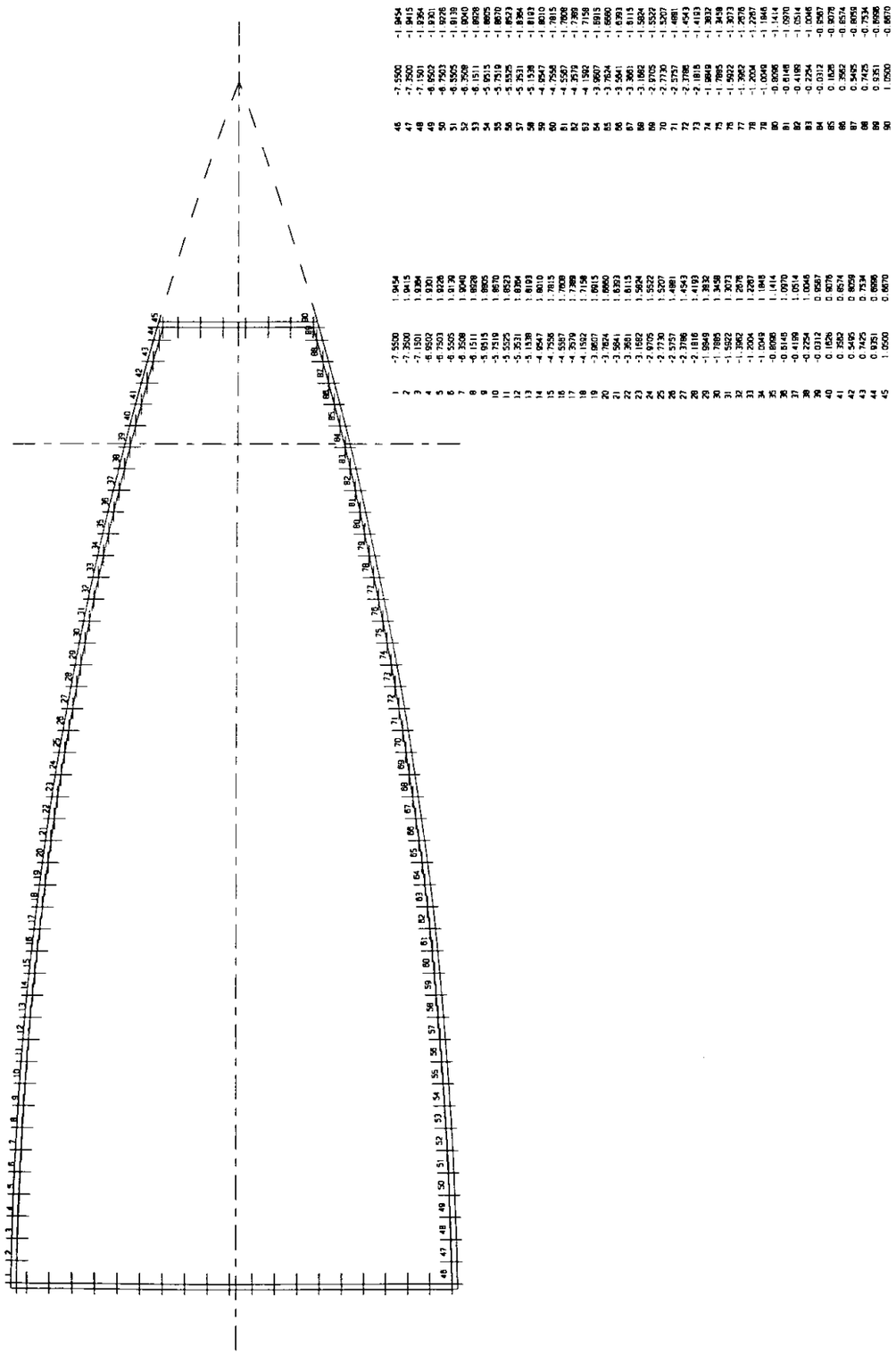
Seccion por pie de pila

Comprobacion a flexion esviada





1	-7.6000	1.9962
2	-6.6000	1.9662
3	-5.6000	1.9061
4	-4.6000	1.8157
5	-3.6000	1.6947
6	-2.6000	1.5429
7	-1.6000	1.3598
8	-0.6000	1.1449
9	0.4000	0.8976
10	1.1000	0.7047
11	-7.6000	1.9662
12	-6.6000	1.9061
13	-5.6000	1.8157
14	-4.6000	1.6947
15	-3.6000	1.5429
16	-2.6000	1.3598
17	-1.6000	1.1449
18	-0.6000	0.8976
19	0.4000	0.7047

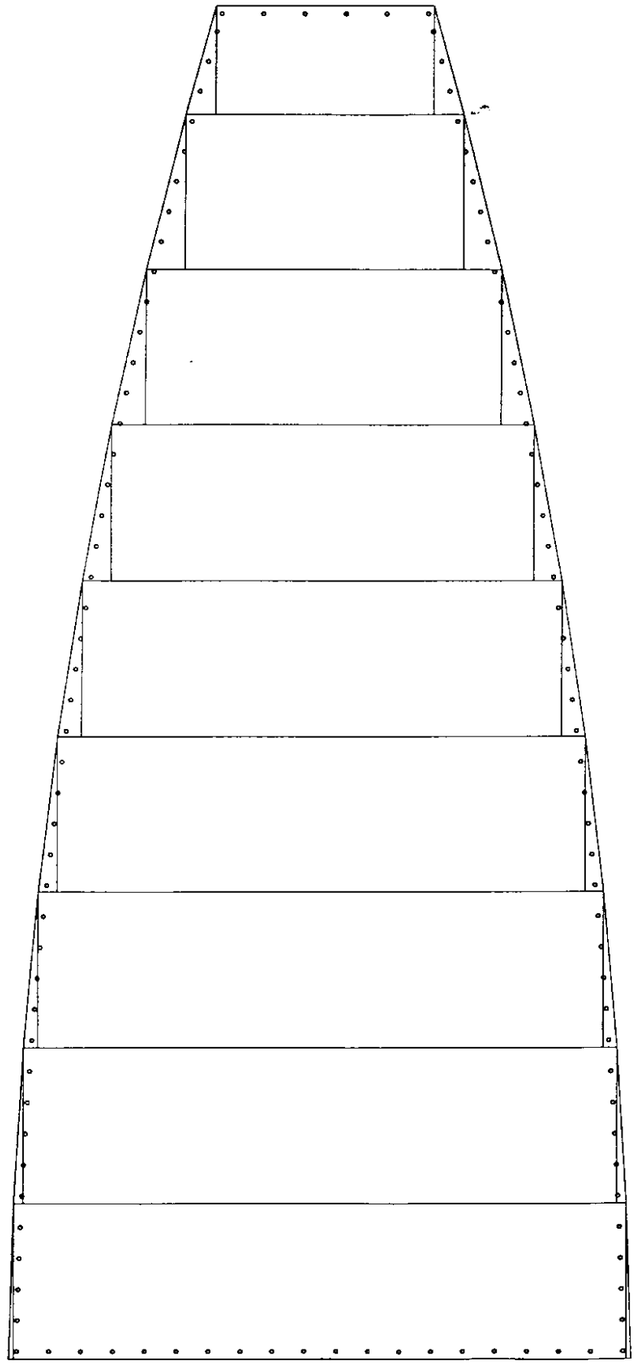


```
Puente sobre el Rio Ebro * PILA - 7 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-7.6000  1.9662 -6.6000  1.9662 -6.6000 -1.9662 16 4
-6.6000  1.9061 -5.6000  1.9061 -5.6000 -1.9061 15 4
-5.6000  1.8157 -4.6000  1.8157 -4.6000 -1.8157 14 4
-4.6000  1.6947 -3.6000  1.6947 -3.6000 -1.6947 13 4
-3.6000  1.5429 -2.6000  1.5429 -2.6000 -1.5429 12 4
-2.6000  1.3598 -1.6000  1.3598 -1.6000 -1.3598 11 4
-1.6000  1.1449 -0.6000  1.1449 -0.6000 -1.1449 10 4
-0.6000  0.8976  0.4000  0.8976  0.4000 -0.8976  9 4
 0.4000  0.7047  1.1000  0.7047  1.1000 -0.7047  8 4
tri
-7.6000  1.9962 -6.6000  1.9662 -7.6000  1.9662 4
-6.6000  1.9662 -5.6000  1.9061 -6.6000  1.9061 4
-5.6000  1.9061 -4.6000  1.8157 -5.6000  1.8157 4
-4.6000  1.8157 -3.6000  1.6947 -4.6000  1.6947 4
-3.6000  1.6947 -2.6000  1.5429 -3.6000  1.5429 4
-2.6000  1.5429 -1.6000  1.3598 -2.6000  1.3598 4
-1.6000  1.3598 -0.6000  1.1449 -1.6000  1.1449 4
-0.6000  1.1449  0.4000  0.8976 -0.6000  0.8976 4
 0.4000  0.8976  1.1000  0.7047  0.4000  0.7047 4
-7.6000 -1.9962 -6.6000 -1.9662 -7.6000 -1.9662 4
-6.6000 -1.9662 -5.6000 -1.9061 -6.6000 -1.9061 4
-5.6000 -1.9061 -4.6000 -1.8157 -5.6000 -1.8157 4
-4.6000 -1.8157 -3.6000 -1.6947 -4.6000 -1.6947 4
-3.6000 -1.6947 -2.6000 -1.5429 -3.6000 -1.5429 4
-2.6000 -1.5429 -1.6000 -1.3598 -2.6000 -1.3598 4
-1.6000 -1.3598 -0.6000 -1.1449 -1.6000 -1.1449 4
-0.6000 -1.1449  0.4000 -0.8976 -0.6000 -0.8976 4
 0.4000 -0.8976  1.1000 -0.7047  0.4000 -0.7047 4
ace
line
-7.5500  1.9454 -7.5500 -1.9454 20 0.000491
 1.0500  0.6670  1.0500 -0.6670  6 0.000491
pun
    -7.5500     1.9454   0.000491
    -7.3500     1.9415   0.000491
    -7.1501     1.9364   0.000491
    -6.9502     1.9301   0.000491
    -6.7503     1.9226   0.000491
    -6.5505     1.9139   0.000491
    -6.3508     1.9040   0.000491
    -6.1511     1.8928   0.000491
    -5.9515     1.8805   0.000491
    -5.7519     1.8670   0.000491
    -5.5525     1.8523   0.000491
    -5.3531     1.8364   0.000491
    -5.1538     1.8193   0.000491
    -4.9547     1.8010   0.000491
    -4.7556     1.7815   0.000491
    -4.5567     1.7608   0.000491
    -4.3579     1.7389   0.000491
    -4.1592     1.7158   0.000491
```

```
-3.9607    1.6915   0.000491
-3.7624    1.6660   0.000491
-3.5641    1.6393   0.000491
-3.3661    1.6115   0.000491
-3.1682    1.5824   0.000491
-2.9705    1.5522   0.000491
-2.7730    1.5207   0.000491
-2.5757    1.4881   0.000491
-2.3786    1.4543   0.000491
-2.1816    1.4193   0.000491
-1.9849    1.3832   0.000491
-1.7885    1.3458   0.000491
-1.5922    1.3073   0.000491
-1.3962    1.2676   0.000491
-1.2004    1.2267   0.000491
-1.0049    1.1846   0.000491
-0.8096    1.1414   0.000491
-0.6146    1.0970   0.000491
-0.4199    1.0514   0.000491
-0.2254    1.0046   0.000491
-0.0312    0.9567   0.000491
 0.1626    0.9076   0.000491
 0.3562    0.8574   0.000491
 0.5495    0.8059   0.000491
 0.7425    0.7534   0.000491
 0.9351    0.6996   0.000491
 1.0500    0.6670   0.000491
-7.5500   -1.9454   0.000491
-7.3500   -1.9415   0.000491
-7.1501   -1.9364   0.000491
-6.9502   -1.9301   0.000491
-6.7503   -1.9226   0.000491
-6.5505   -1.9139   0.000491
-6.3508   -1.9040   0.000491
-6.1511   -1.8928   0.000491
-5.9515   -1.8805   0.000491
-5.7519   -1.8670   0.000491
-5.5525   -1.8523   0.000491
-5.3531   -1.8364   0.000491
-5.1538   -1.8193   0.000491
-4.9547   -1.8010   0.000491
-4.7556   -1.7815   0.000491
-4.5567   -1.7608   0.000491
-4.3579   -1.7389   0.000491
-4.1592   -1.7158   0.000491
-3.9607   -1.6915   0.000491
-3.7624   -1.6660   0.000491
-3.5641   -1.6393   0.000491
-3.3661   -1.6115   0.000491
-3.1682   -1.5824   0.000491
-2.9705   -1.5522   0.000491
-2.7730   -1.5207   0.000491
-2.5757   -1.4881   0.000491
-2.3786   -1.4543   0.000491
-2.1816   -1.4193   0.000491
-1.9849   -1.3832   0.000491
-1.7885   -1.3458   0.000491
-1.5922   -1.3073   0.000491
-1.3962   -1.2676   0.000491
-1.2004   -1.2267   0.000491
-1.0049   -1.1846   0.000491
-0.8096   -1.1414   0.000491
-0.6146   -1.0970   0.000491
-0.4199   -1.0514   0.000491
-0.2254   -1.0046   0.000491
-0.0312   -0.9567   0.000491
 0.1626   -0.9076   0.000491
 0.3562   -0.8574   0.000491
 0.5495   -0.8059   0.000491
 0.7425   -0.7534   0.000491
 0.9351   -0.6996   0.000491
 1.0500   -0.6670   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Pie de Pila-7
a4 a4 1 4000. 0. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    2659.37    471.29   5510.98 1
     552.15   -424.16   2024.18 2
    2536.40    471.29   5595.03 3
     858.59   -508.29   1439.18 5
     862.63    508.29   1448.64 6
     858.59   -508.29   1439.18 7
     862.63    508.29   1448.64 8
     862.63    508.29   1448.64 1
     858.59   -508.29   1439.18 2
    2250.24    424.16   5660.92 3
fin
```

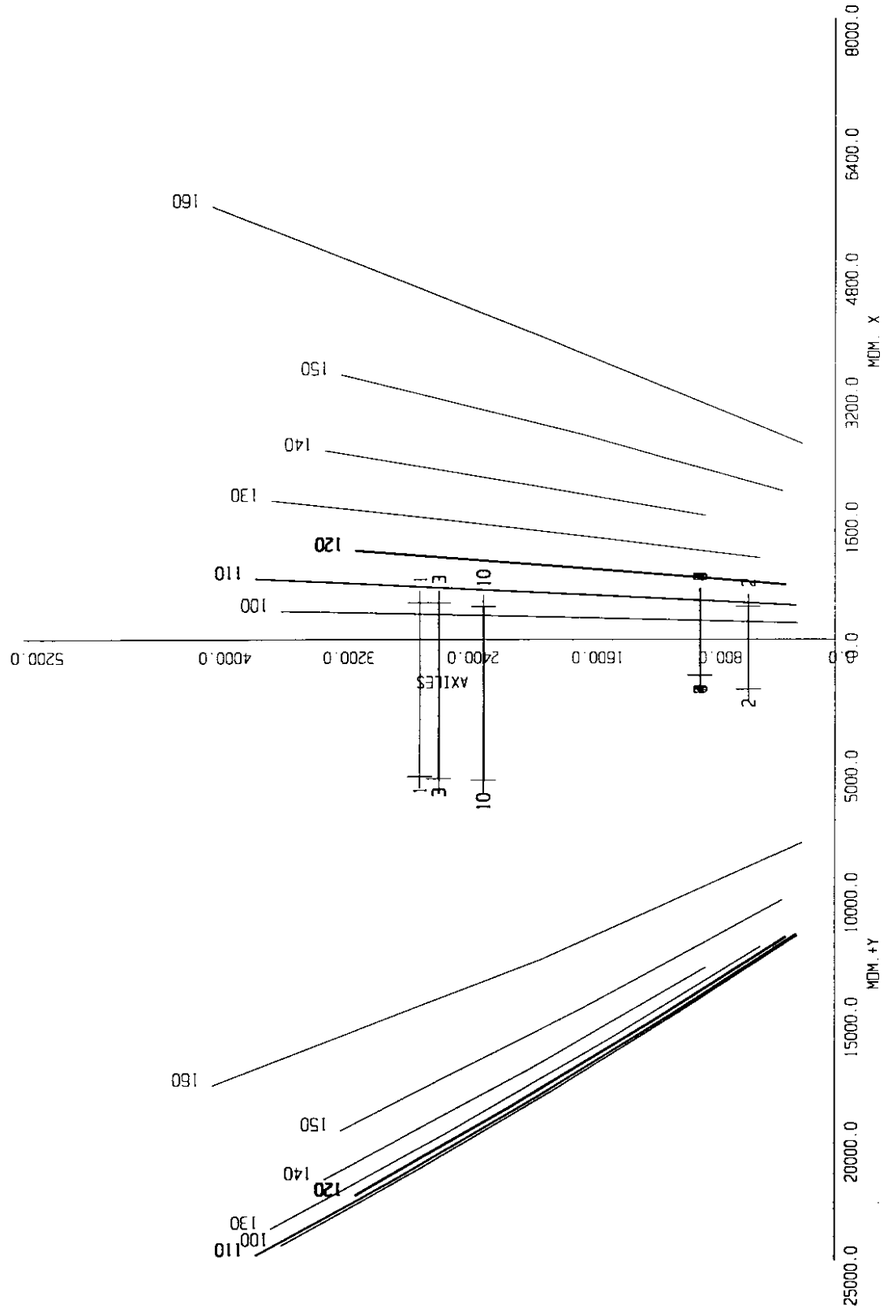
Puente sobre el Rio Ebro * PILA - 7 * (Secc. a pie de pila)

escala = 1/ 40



Puente sobre el Rio Ebro * PILA - 7 * (Secc. a pie de pila)

Pie de Pila-7

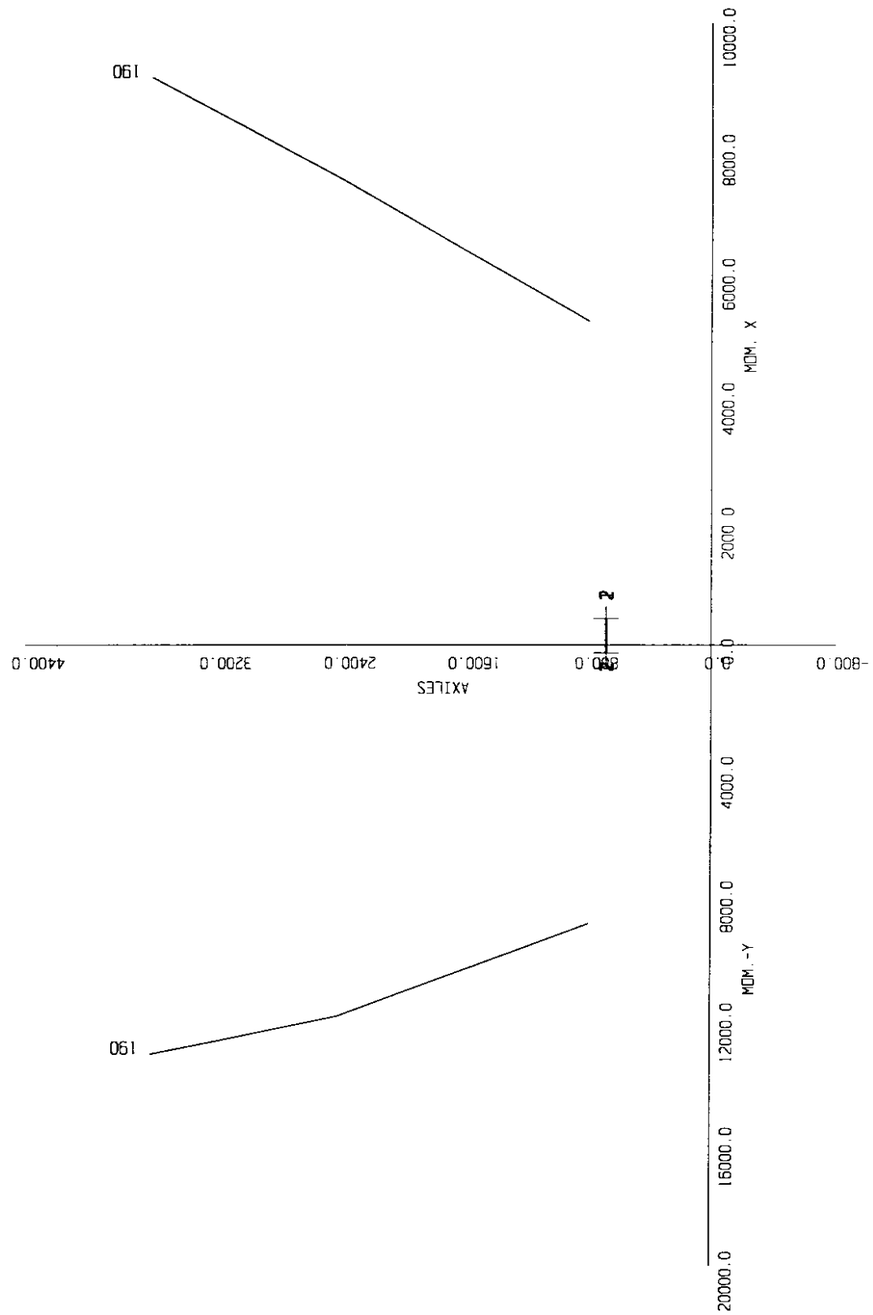


```
Puente sobre el Rio Ebro * PILA - 7 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-7.6000  1.9662 -6.6000  1.9662 -6.6000 -1.9662 16 4
-6.6000  1.9061 -5.6000  1.9061 -5.6000 -1.9061 15 4
-5.6000  1.8157 -4.6000  1.8157 -4.6000 -1.8157 14 4
-4.6000  1.6947 -3.6000  1.6947 -3.6000 -1.6947 13 4
-3.6000  1.5429 -2.6000  1.5429 -2.6000 -1.5429 12 4
-2.6000  1.3598 -1.6000  1.3598 -1.6000 -1.3598 11 4
-1.6000  1.1449 -0.6000  1.1449 -0.6000 -1.1449 10 4
-0.6000  0.8976  0.4000  0.8976  0.4000 -0.8976  9 4
 0.4000  0.7047  1.1000  0.7047  1.1000 -0.7047  8 4
tri
-7.6000  1.9962 -6.6000  1.9662 -7.6000  1.9662 4
-6.6000  1.9662 -5.6000  1.9061 -6.6000  1.9061 4
-5.6000  1.9061 -4.6000  1.8157 -5.6000  1.8157 4
-4.6000  1.8157 -3.6000  1.6947 -4.6000  1.6947 4
-3.6000  1.6947 -2.6000  1.5429 -3.6000  1.5429 4
-2.6000  1.5429 -1.6000  1.3598 -2.6000  1.3598 4
-1.6000  1.3598 -0.6000  1.1449 -1.6000  1.1449 4
-0.6000  1.1449  0.4000  0.8976 -0.6000  0.8976 4
 0.4000  0.8976  1.1000  0.7047  0.4000  0.7047 4
-7.6000 -1.9962 -6.6000 -1.9662 -7.6000 -1.9662 4
-6.6000 -1.9662 -5.6000 -1.9061 -6.6000 -1.9061 4
-5.6000 -1.9061 -4.6000 -1.8157 -5.6000 -1.8157 4
-4.6000 -1.8157 -3.6000 -1.6947 -4.6000 -1.6947 4
-3.6000 -1.6947 -2.6000 -1.5429 -3.6000 -1.5429 4
-2.6000 -1.5429 -1.6000 -1.3598 -2.6000 -1.3598 4
-1.6000 -1.3598 -0.6000 -1.1449 -1.6000 -1.1449 4
-0.6000 -1.1449  0.4000 -0.8976 -0.6000 -0.8976 4
 0.4000 -0.8976  1.1000 -0.7047  0.4000 -0.7047 4
ace
line
-7.5500  1.9454 -7.5500 -1.9454 20 0.000491
 1.0500  0.6670  1.0500 -0.6670  6 0.000491
pun
   -7.5500     1.9454   0.000491
   -7.3500     1.9415   0.000491
   -7.1501     1.9364   0.000491
   -6.9502     1.9301   0.000491
   -6.7503     1.9226   0.000491
   -6.5505     1.9139   0.000491
   -6.3508     1.9040   0.000491
   -6.1511     1.8928   0.000491
   -5.9515     1.8805   0.000491
   -5.7519     1.8670   0.000491
   -5.5525     1.8523   0.000491
   -5.3531     1.8364   0.000491
   -5.1538     1.8193   0.000491
   -4.9547     1.8010   0.000491
   -4.7556     1.7815   0.000491
   -4.5567     1.7608   0.000491
   -4.3579     1.7389   0.000491
   -4.1592     1.7158   0.000491
   -3.9607     1.6915   0.000491
   -3.7624     1.6660   0.000491
   -3.5641     1.6393   0.000491
   -3.3661     1.6115   0.000491
   -3.1682     1.5824   0.000491
   -2.9705     1.5522   0.000491
   -2.7730     1.5207   0.000491
   -2.5757     1.4881   0.000491
   -2.3786     1.4543   0.000491
   -2.1816     1.4193   0.000491
   -1.9849     1.3832   0.000491
   -1.7885     1.3458   0.000491
   -1.5922     1.3073   0.000491
   -1.3962     1.2676   0.000491
   -1.2004     1.2267   0.000491
   -1.0049     1.1846   0.000491
   -0.8096     1.1414   0.000491
   -0.6146     1.0970   0.000491
   -0.4199     1.0514   0.000491
   -0.2254     1.0046   0.000491
   -0.0312     0.9567   0.000491
    0.1626     0.9076   0.000491
    0.3562     0.8574   0.000491
    0.5495     0.8059   0.000491
    0.7425     0.7534   0.000491
    0.9351     0.6996   0.000491
    1.0500     0.6670   0.000491
   -7.5500    -1.9454   0.000491
   -7.3500    -1.9415   0.000491
   -7.1501    -1.9364   0.000491
   -6.9502    -1.9301   0.000491
   -6.7503    -1.9226   0.000491
   -6.5505    -1.9139   0.000491
   -6.3508    -1.9040   0.000491
   -6.1511    -1.8928   0.000491
   -5.9515    -1.8805   0.000491
   -5.7519    -1.8670   0.000491
   -5.5525    -1.8523   0.000491
   -5.3531    -1.8364   0.000491
   -5.1538    -1.8193   0.000491
   -4.9547    -1.8010   0.000491
   -4.7556    -1.7815   0.000491
   -4.5567    -1.7608   0.000491
   -4.3579    -1.7389   0.000491
   -4.1592    -1.7158   0.000491
   -3.9607    -1.6915   0.000491
   -3.7624    -1.6660   0.000491
   -3.5641    -1.6393   0.000491
   -3.3661    -1.6115   0.000491
   -3.1682    -1.5824   0.000491
   -2.9705    -1.5522   0.000491
   -2.7730    -1.5207   0.000491
   -2.5757    -1.4881   0.000491
   -2.3786    -1.4543   0.000491
   -2.1816    -1.4193   0.000491
   -1.9849    -1.3832   0.000491
```

```
    -1.7885    -1.3458   0.000491
    -1.5922    -1.3073   0.000491
    -1.3962    -1.2676   0.000491
    -1.2004    -1.2267   0.000491
    -1.0049    -1.1846   0.000491
    -0.8096    -1.1414   0.000491
    -0.6146    -1.0970   0.000491
    -0.4199    -1.0514   0.000491
    -0.2254    -1.0046   0.000491
    -0.0312    -0.9567   0.000491
     0.1626    -0.9076   0.000491
     0.3562    -0.8574   0.000491
     0.5495    -0.8059   0.000491
     0.7425    -0.7534   0.000491
     0.9351    -0.6996   0.000491
     1.0500    -0.6670   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 180.00 270.00 10.00
dib Pie de Pila-7
a4 a4 1 4000. -500. 1
cur
190. 2
200. 3
210. 4
220. 5
230. 6
240. 7
250. 8
260. 1
esf
    669.31    -424.16    -249.95 1
    669.31    -424.16    -249.95 4
fin
```

Puente sobre el Rio Ebro * PILA - 7 * (Secc. o pie de pilo)

Pie de Pilo-7

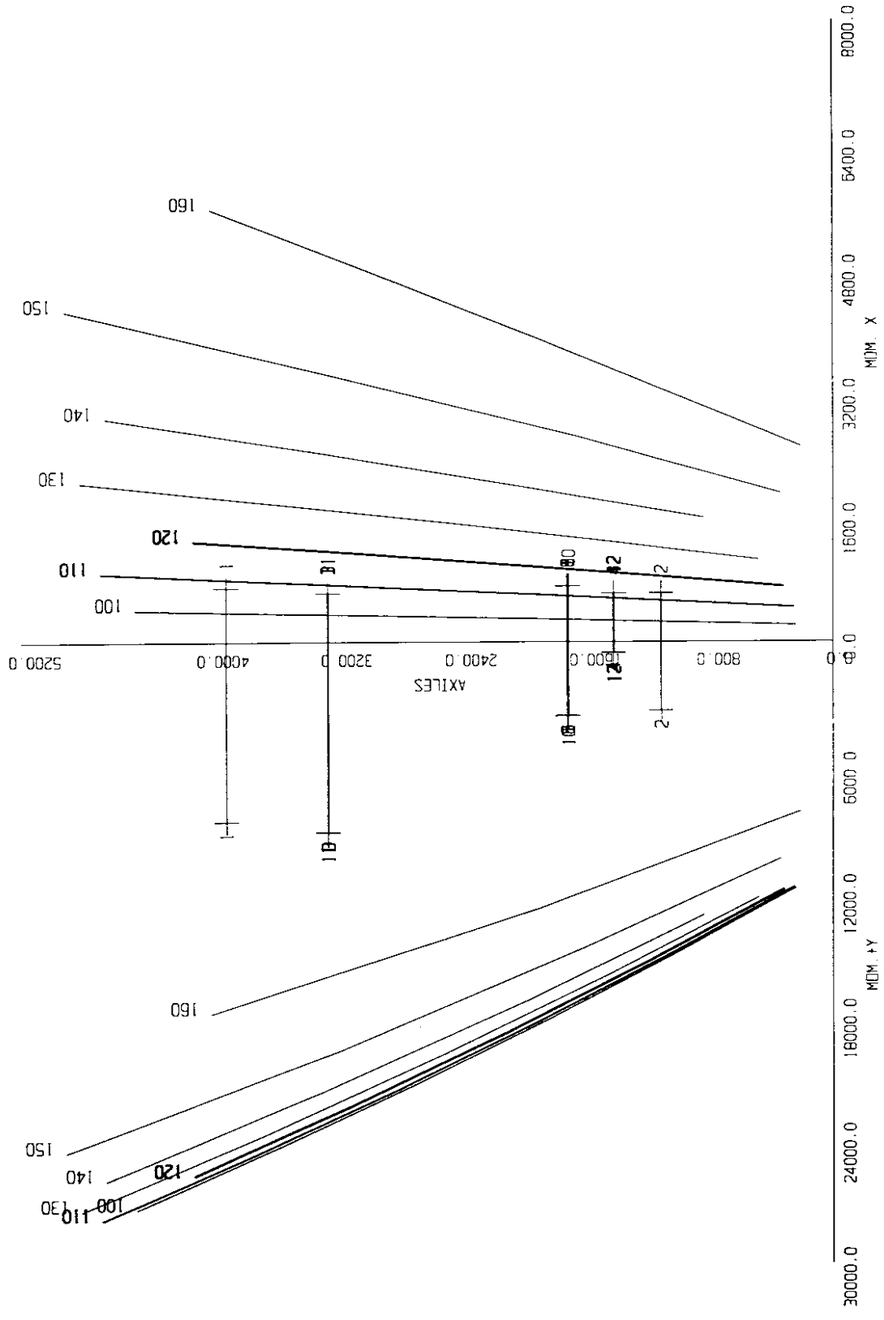


```
Puente sobre el Rio Ebro * PILA - 8 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-7.6000  1.9662 -6.6000  1.9662 -6.6000 -1.9662 16 4
-6.6000  1.9061 -5.6000  1.9061 -5.6000 -1.9061 15 4
-5.6000  1.8157 -4.6000  1.8157 -4.6000 -1.8157 14 4
-4.6000  1.6947 -3.6000  1.6947 -3.6000 -1.6947 13 4
-3.6000  1.5429 -2.6000  1.5429 -2.6000 -1.5429 12 4
-2.6000  1.3598 -1.6000  1.3598 -1.6000 -1.3598 11 4
-1.6000  1.1449 -0.6000  1.1449 -0.6000 -1.1449 10 4
-0.6000  0.8976  0.4000  0.8976  0.4000 -0.8976  9 4
 0.4000  0.7047  1.1000  0.7047  1.1000 -0.7047  8 4
tri
-7.6000  1.9962 -6.6000  1.9662 -7.6000  1.9662 4
-6.6000  1.9662 -5.6000  1.9061 -6.6000  1.9061 4
-5.6000  1.9061 -4.6000  1.8157 -5.6000  1.8157 4
-4.6000  1.8157 -3.6000  1.6947 -4.6000  1.6947 4
-3.6000  1.6947 -2.6000  1.5429 -3.6000  1.5429 4
-2.6000  1.5429 -1.6000  1.3598 -2.6000  1.3598 4
-1.6000  1.3598 -0.6000  1.1449 -1.6000  1.1449 4
-0.6000  1.1449  0.4000  0.8976 -0.6000  0.8976 4
 0.4000  0.8976  1.1000  0.7047  0.4000  0.7047 4
-7.6000 -1.9962 -6.6000 -1.9662 -7.6000 -1.9662 4
-6.6000 -1.9662 -5.6000 -1.9061 -6.6000 -1.9061 4
-5.6000 -1.9061 -4.6000 -1.8157 -5.6000 -1.8157 4
-4.6000 -1.8157 -3.6000 -1.6947 -4.6000 -1.6947 4
-3.6000 -1.6947 -2.6000 -1.5429 -3.6000 -1.5429 4
-2.6000 -1.5429 -1.6000 -1.3598 -2.6000 -1.3598 4
-1.6000 -1.3598 -0.6000 -1.1449 -1.6000 -1.1449 4
-0.6000 -1.1449  0.4000 -0.8976 -0.6000 -0.8976 4
 0.4000 -0.8976  1.1000 -0.7047  0.4000 -0.7047 4
ace
line
-7.5500  1.9454 -7.5500 -1.9454 20 0.000491
 1.0500  0.6670  1.0500 -0.6670  6 0.000491
pun
   -7.5500     1.9454   0.000491
   -7.3500     1.9415   0.000491
   -7.1501     1.9364   0.000491
   -6.9502     1.9301   0.000491
   -6.7503     1.9226   0.000491
   -6.5505     1.9139   0.000491
   -6.3508     1.9040   0.000491
   -6.1511     1.8928   0.000491
   -5.9515     1.8805   0.000491
   -5.7519     1.8670   0.000491
   -5.5525     1.8523   0.000491
   -5.3531     1.8364   0.000491
   -5.1538     1.8193   0.000491
   -4.9547     1.8010   0.000491
   -4.7556     1.7815   0.000491
   -4.5567     1.7608   0.000491
   -4.3579     1.7389   0.000491
   -4.1592     1.7158   0.000491
   -3.9607     1.6915   0.000491
   -3.7624     1.6660   0.000491
   -3.5641     1.6393   0.000491
   -3.3661     1.6115   0.000491
   -3.1682     1.5824   0.000491
   -2.9705     1.5522   0.000491
   -2.7730     1.5207   0.000491
   -2.5757     1.4881   0.000491
   -2.3786     1.4543   0.000491
   -2.1816     1.4193   0.000491
   -1.9849     1.3832   0.000491
   -1.7885     1.3458   0.000491
   -1.5922     1.3073   0.000491
   -1.3962     1.2676   0.000491
   -1.2004     1.2267   0.000491
   -1.0049     1.1846   0.000491
   -0.8096     1.1414   0.000491
   -0.6146     1.0970   0.000491
   -0.4199     1.0514   0.000491
   -0.2254     1.0046   0.000491
   -0.0312     0.9567   0.000491
    0.1626     0.9076   0.000491
    0.3562     0.8574   0.000491
    0.5495     0.8059   0.000491
    0.7425     0.7534   0.000491
    0.9351     0.6996   0.000491
    1.0500     0.6670   0.000491
   -7.5500    -1.9454   0.000491
   -7.3500    -1.9415   0.000491
   -7.1501    -1.9364   0.000491
   -6.9502    -1.9301   0.000491
   -6.7503    -1.9226   0.000491
   -6.5505    -1.9139   0.000491
   -6.3508    -1.9040   0.000491
   -6.1511    -1.8928   0.000491
   -5.9515    -1.8805   0.000491
   -5.7519    -1.8670   0.000491
   -5.5525    -1.8523   0.000491
   -5.3531    -1.8364   0.000491
   -5.1538    -1.8193   0.000491
   -4.9547    -1.8010   0.000491
   -4.7556    -1.7815   0.000491
   -4.5567    -1.7608   0.000491
   -4.3579    -1.7389   0.000491
   -4.1592    -1.7158   0.000491
   -3.9607    -1.6915   0.000491
   -3.7624    -1.6660   0.000491
   -3.5641    -1.6393   0.000491
   -3.3661    -1.6115   0.000491
   -3.1682    -1.5824   0.000491
   -2.9705    -1.5522   0.000491
   -2.7730    -1.5207   0.000491
   -2.5757    -1.4881   0.000491
   -2.3786    -1.4543   0.000491
   -2.1816    -1.4193   0.000491
   -1.9849    -1.3832   0.000491
```

```
    -1.7885    -1.3458   0.000491
    -1.5922    -1.3073   0.000491
    -1.3962    -1.2676   0.000491
    -1.2004    -1.2267   0.000491
    -1.0049    -1.1846   0.000491
    -0.8096    -1.1414   0.000491
    -0.6146    -1.0970   0.000491
    -0.4199    -1.0514   0.000491
    -0.2254    -1.0046   0.000491
    -0.0312    -0.9567   0.000491
     0.1626    -0.9076   0.000491
     0.3562    -0.8574   0.000491
     0.5495    -0.8059   0.000491
     0.7425    -0.7534   0.000491
     0.9351    -0.6996   0.000491
     1.0500    -0.6670   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Pie de Pila-8
a4 a4 1 5000. 0. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    3895.38     694.25    8643.31 1
    1096.22    -624.82    3300.08 2
    3239.56     624.82    9144.93 3
    1400.26    -624.82     513.10 4
    1690.54    -712.99    3546.93 5
    1697.95     712.99    3566.12 6
    1690.54    -712.99    3546.93 7
    1697.95     712.99    3566.12 8
    1697.95     712.99    3566.12 1
    1690.54    -712.99    3546.93 2
    3239.56     624.82    9144.93 3
    1400.25    -624.82     513.09 4
fin
```

Puente sobre el Rio Ebro * PILA - 8 * (Secc. a pie de pila)

Pie de Pila-8

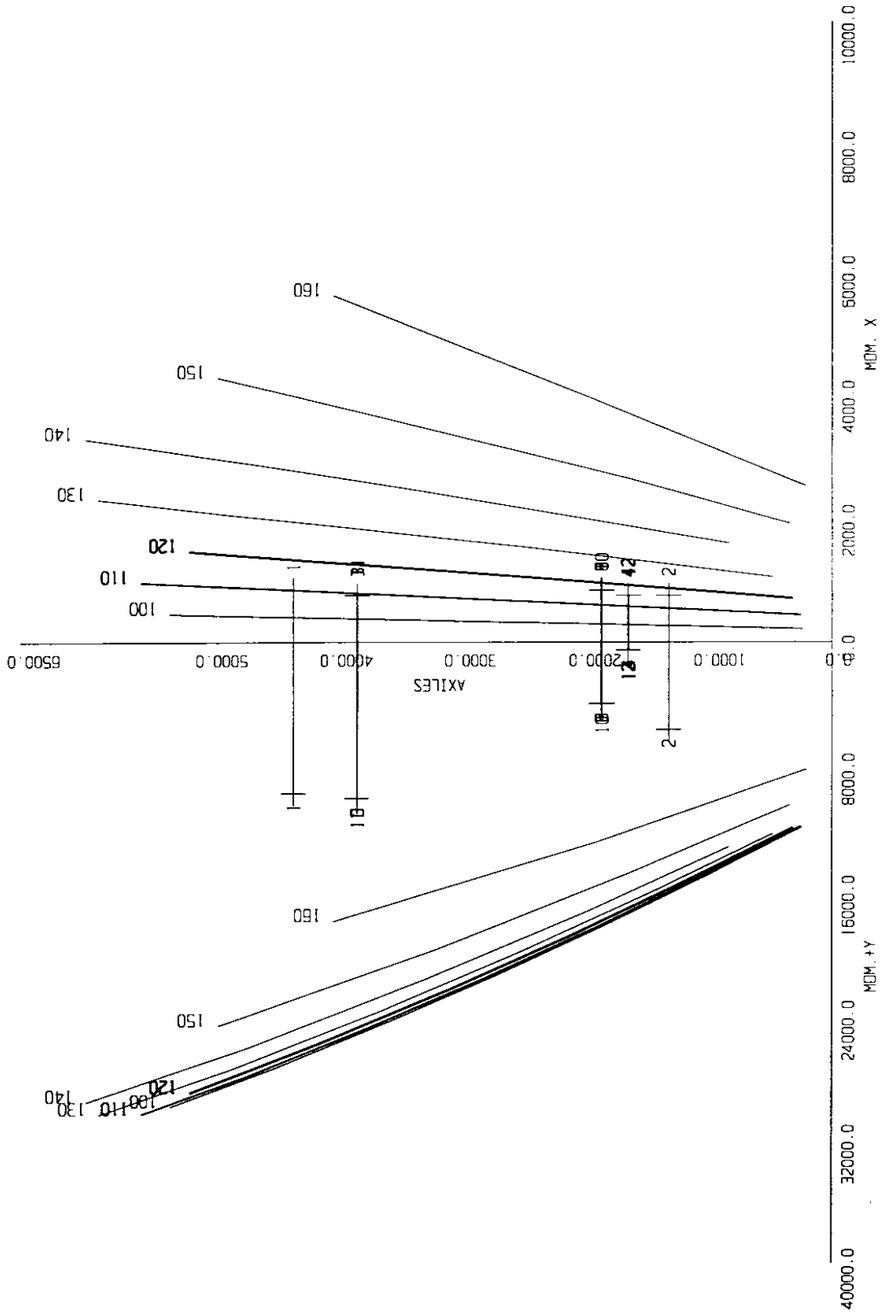


```
Puente sobre el Rio Ebro * PILA - 11 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-7.6000  1.9662 -6.6000  1.9662 -6.6000 -1.9662 16 4
-6.6000  1.9061 -5.6000  1.9061 -5.6000 -1.9061 15 4
-5.6000  1.8157 -4.6000  1.8157 -4.6000 -1.8157 14 4
-4.6000  1.6947 -3.6000  1.6947 -3.6000 -1.6947 13 4
-3.6000  1.5429 -2.6000  1.5429 -2.6000 -1.5429 12 4
-2.6000  1.3598 -1.6000  1.3598 -1.6000 -1.3598 11 4
-1.6000  1.1449 -0.6000  1.1449 -0.6000 -1.1449 10 4
-0.6000  0.8976  0.4000  0.8976  0.4000 -0.8976  9 4
 0.4000  0.7047  1.1000  0.7047  1.1000 -0.7047  8 4
tri
-7.6000  1.9962 -6.6000  1.9662 -7.6000  1.9662 4
-6.6000  1.9662 -5.6000  1.9061 -6.6000  1.9061 4
-5.6000  1.9061 -4.6000  1.8157 -5.6000  1.8157 4
-4.6000  1.8157 -3.6000  1.6947 -4.6000  1.6947 4
-3.6000  1.6947 -2.6000  1.5429 -3.6000  1.5429 4
-2.6000  1.5429 -1.6000  1.3598 -2.6000  1.3598 4
-1.6000  1.3598 -0.6000  1.1449 -1.6000  1.1449 4
-0.6000  1.1449  0.4000  0.8976 -0.6000  0.8976 4
 0.4000  0.8976  1.1000  0.7047  0.4000  0.7047 4
-7.6000 -1.9962 -6.6000 -1.9662 -7.6000 -1.9662 4
-6.6000 -1.9662 -5.6000 -1.9061 -6.6000 -1.9061 4
-5.6000 -1.9061 -4.6000 -1.8157 -5.6000 -1.8157 4
-4.6000 -1.8157 -3.6000 -1.6947 -4.6000 -1.6947 4
-3.6000 -1.6947 -2.6000 -1.5429 -3.6000 -1.5429 4
-2.6000 -1.5429 -1.6000 -1.3598 -2.6000 -1.3598 4
-1.6000 -1.3598 -0.6000 -1.1449 -1.6000 -1.1449 4
-0.6000 -1.1449  0.4000 -0.8976 -0.6000 -0.8976 4
 0.4000 -0.8976  1.1000 -0.7047  0.4000 -0.7047 4
ace
line
-7.5500  1.9454 -7.5500 -1.9454 20 0.000491
 1.0500  0.6670  1.0500 -0.6670  6 0.000491
pun
   -7.5500     1.9454   0.000491
   -7.3500     1.9415   0.000491
   -7.1501     1.9364   0.000491
   -6.9502     1.9301   0.000491
   -6.7503     1.9226   0.000491
   -6.5505     1.9139   0.000491
   -6.3508     1.9040   0.000491
   -6.1511     1.8928   0.000491
   -5.9515     1.8805   0.000491
   -5.7519     1.8670   0.000491
   -5.5525     1.8523   0.000491
   -5.3531     1.8364   0.000491
   -5.1538     1.8193   0.000491
   -4.9547     1.8010   0.000491
   -4.7556     1.7815   0.000491
   -4.5567     1.7608   0.000491
   -4.3579     1.7389   0.000491
   -4.1592     1.7158   0.000491
   -3.9607     1.6915   0.000491
   -3.7624     1.6660   0.000491
   -3.5641     1.6393   0.000491
   -3.3661     1.6115   0.000491
   -3.1682     1.5824   0.000491
   -2.9705     1.5522   0.000491
   -2.7730     1.5207   0.000491
   -2.5757     1.4881   0.000491
   -2.3786     1.4543   0.000491
   -2.1816     1.4193   0.000491
   -1.9849     1.3832   0.000491
   -1.7885     1.3458   0.000491
   -1.5922     1.3073   0.000491
   -1.3962     1.2676   0.000491
   -1.2004     1.2267   0.000491
   -1.0049     1.1846   0.000491
   -0.8096     1.1414   0.000491
   -0.6146     1.0970   0.000491
   -0.4199     1.0514   0.000491
   -0.2254     1.0046   0.000491
   -0.0312     0.9567   0.000491
    0.1626     0.9076   0.000491
    0.3562     0.8574   0.000491
    0.5495     0.8059   0.000491
    0.7425     0.7534   0.000491
    0.9351     0.6996   0.000491
    1.0500     0.6670   0.000491
   -7.5500    -1.9454   0.000491
   -7.3500    -1.9415   0.000491
   -7.1501    -1.9364   0.000491
   -6.9502    -1.9301   0.000491
   -6.7503    -1.9226   0.000491
   -6.5505    -1.9139   0.000491
   -6.3508    -1.9040   0.000491
   -6.1511    -1.8928   0.000491
   -5.9515    -1.8805   0.000491
   -5.7519    -1.8670   0.000491
   -5.5525    -1.8523   0.000491
   -5.3531    -1.8364   0.000491
   -5.1538    -1.8193   0.000491
   -4.9547    -1.8010   0.000491
   -4.7556    -1.7815   0.000491
   -4.5567    -1.7608   0.000491
   -4.3579    -1.7389   0.000491
   -4.1592    -1.7158   0.000491
   -3.9607    -1.6915   0.000491
   -3.7624    -1.6660   0.000491
   -3.5641    -1.6393   0.000491
   -3.3661    -1.6115   0.000491
   -3.1682    -1.5824   0.000491
   -2.9705    -1.5522   0.000491
   -2.7730    -1.5207   0.000491
   -2.5757    -1.4881   0.000491
   -2.3786    -1.4543   0.000491
   -2.1816    -1.4193   0.000491
   -1.9849    -1.3832   0.000491
```

```
    -1.7885    -1.3458   0.000491
    -1.5922    -1.3073   0.000491
    -1.3962    -1.2676   0.000491
    -1.2004    -1.2267   0.000491
    -1.0049    -1.1846   0.000491
    -0.8096    -1.1414   0.000491
    -0.6146    -1.0970   0.000491
    -0.4199    -1.0514   0.000491
    -0.2254    -1.0046   0.000491
    -0.0312    -0.9567   0.000491
     0.1626    -0.9076   0.000491
     0.3562    -0.8574   0.000491
     0.5495    -0.8059   0.000491
     0.7425    -0.7534   0.000491
     0.9351    -0.6996   0.000491
     1.0500    -0.6670   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Pie de Pila-11
a4 a4 1 6000. 0. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    4319.63     839.09    9718.47 1
    1303.10    -755.18    5604.43 2
    3806.67     755.18   10024.16 3
    1627.06    -755.18     499.67 4
    1840.08    -844.55    3918.60 5
    1841.44     844.55    3937.05 6
    1836.46    -839.09    3916.93 7
    1845.06     839.09    3938.73 8
    1841.44     844.55    3937.05 1
    1840.08    -844.55    3918.60 2
    3806.68     755.18   10024.16 3
    1627.06    -755.18     499.67 4
fin
```

Puente sobre el Rio Ebro * PILA - 11 * (Secc. a pie de pila)

Pie de Pila-11

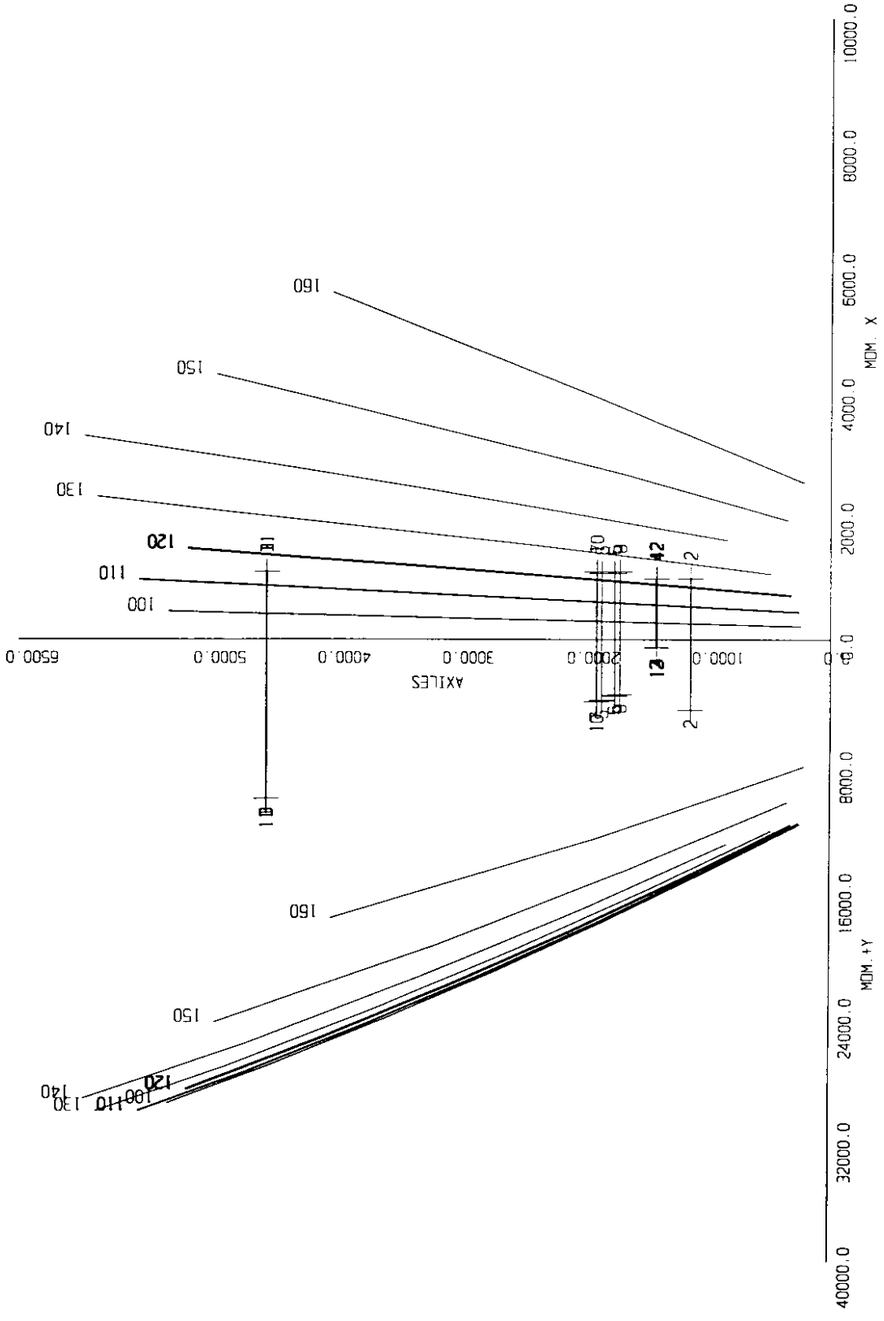


```
Puente sobre el Rio Ebro * PILA - 12 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-7.6000  1.9662 -6.6000  1.9662 -6.6000 -1.9662 16 4
-6.6000  1.9061 -5.6000  1.9061 -5.6000 -1.9061 15 4
-5.6000  1.8157 -4.6000  1.8157 -4.6000 -1.8157 14 4
-4.6000  1.6947 -3.6000  1.6947 -3.6000 -1.6947 13 4
-3.6000  1.5429 -2.6000  1.5429 -2.6000 -1.5429 12 4
-2.6000  1.3598 -1.6000  1.3598 -1.6000 -1.3598 11 4
-1.6000  1.1449 -0.6000  1.1449 -0.6000 -1.1449 10 4
-0.6000  0.8976  0.4000  0.8976  0.4000 -0.8976  9 4
 0.4000  0.7047  1.1000  0.7047  1.1000 -0.7047  8 4
tri
-7.6000  1.9962 -6.6000  1.9662 -7.6000  1.9662 4
-6.6000  1.9662 -5.6000  1.9061 -6.6000  1.9061 4
-5.6000  1.9061 -4.6000  1.8157 -5.6000  1.8157 4
-4.6000  1.8157 -3.6000  1.6947 -4.6000  1.6947 4
-3.6000  1.6947 -2.6000  1.5429 -3.6000  1.5429 4
-2.6000  1.5429 -1.6000  1.3598 -2.6000  1.3598 4
-1.6000  1.3598 -0.6000  1.1449 -1.6000  1.1449 4
-0.6000  1.1449  0.4000  0.8976 -0.6000  0.8976 4
 0.4000  0.8976  1.1000  0.7047  0.4000  0.7047 4
-7.6000 -1.9962 -6.6000 -1.9662 -7.6000 -1.9662 4
-6.6000 -1.9662 -5.6000 -1.9061 -6.6000 -1.9061 4
-5.6000 -1.9061 -4.6000 -1.8157 -5.6000 -1.8157 4
-4.6000 -1.8157 -3.6000 -1.6947 -4.6000 -1.6947 4
-3.6000 -1.6947 -2.6000 -1.5429 -3.6000 -1.5429 4
-2.6000 -1.5429 -1.6000 -1.3598 -2.6000 -1.3598 4
-1.6000 -1.3598 -0.6000 -1.1449 -1.6000 -1.1449 4
-0.6000 -1.1449  0.4000 -0.8976 -0.6000 -0.8976 4
 0.4000 -0.8976  1.1000 -0.7047  0.4000 -0.7047 4
ace
line
-7.5500  1.9454 -7.5500 -1.9454 20 0.000491
 1.0500  0.6670  1.0500 -0.6670  6 0.000491
pun
   -7.5500     1.9454   0.000491
   -7.3500     1.9415   0.000491
   -7.1501     1.9364   0.000491
   -6.9502     1.9301   0.000491
   -6.7503     1.9226   0.000491
   -6.5505     1.9139   0.000491
   -6.3508     1.9040   0.000491
   -6.1511     1.8928   0.000491
   -5.9515     1.8805   0.000491
   -5.7519     1.8670   0.000491
   -5.5525     1.8523   0.000491
   -5.3531     1.8364   0.000491
   -5.1538     1.8193   0.000491
   -4.9547     1.8010   0.000491
   -4.7556     1.7815   0.000491
   -4.5567     1.7608   0.000491
   -4.3579     1.7389   0.000491
   -4.1592     1.7158   0.000491
   -3.9607     1.6915   0.000491
   -3.7624     1.6660   0.000491
   -3.5641     1.6393   0.000491
   -3.3661     1.6115   0.000491
   -3.1682     1.5824   0.000491
   -2.9705     1.5522   0.000491
   -2.7730     1.5207   0.000491
   -2.5757     1.4881   0.000491
   -2.3786     1.4543   0.000491
   -2.1816     1.4193   0.000491
   -1.9849     1.3832   0.000491
   -1.7885     1.3458   0.000491
   -1.5922     1.3073   0.000491
   -1.3962     1.2676   0.000491
   -1.2004     1.2267   0.000491
   -1.0049     1.1846   0.000491
   -0.8096     1.1414   0.000491
   -0.6146     1.0970   0.000491
   -0.4199     1.0514   0.000491
   -0.2254     1.0046   0.000491
   -0.0312     0.9567   0.000491
    0.1626     0.9076   0.000491
    0.3562     0.8574   0.000491
    0.5495     0.8059   0.000491
    0.7425     0.7534   0.000491
    0.9351     0.6996   0.000491
    1.0500     0.6670   0.000491
   -7.5500    -1.9454   0.000491
   -7.3500    -1.9415   0.000491
   -7.1501    -1.9364   0.000491
   -6.9502    -1.9301   0.000491
   -6.7503    -1.9226   0.000491
   -6.5505    -1.9139   0.000491
   -6.3508    -1.9040   0.000491
   -6.1511    -1.8928   0.000491
   -5.9515    -1.8805   0.000491
   -5.7519    -1.8670   0.000491
   -5.5525    -1.8523   0.000491
   -5.3531    -1.8364   0.000491
   -5.1538    -1.8193   0.000491
   -4.9547    -1.8010   0.000491
   -4.7556    -1.7815   0.000491
   -4.5567    -1.7608   0.000491
   -4.3579    -1.7389   0.000491
   -4.1592    -1.7158   0.000491
   -3.9607    -1.6915   0.000491
   -3.7624    -1.6660   0.000491
   -3.5641    -1.6393   0.000491
   -3.3661    -1.6115   0.000491
   -3.1682    -1.5824   0.000491
   -2.9705    -1.5522   0.000491
   -2.7730    -1.5207   0.000491
   -2.5757    -1.4881   0.000491
   -2.3786    -1.4543   0.000491
   -2.1816    -1.4193   0.000491
   -1.9849    -1.3832   0.000491
```

```
    -1.7885    -1.3458   0.000491
    -1.5922    -1.3073   0.000491
    -1.3962    -1.2676   0.000491
    -1.2004    -1.2267   0.000491
    -1.0049    -1.1846   0.000491
    -0.8096    -1.1414   0.000491
    -0.6146    -1.0970   0.000491
    -0.4199    -1.0514   0.000491
    -0.2254    -1.0046   0.000491
    -0.0312    -0.9567   0.000491
     0.1626    -0.9076   0.000491
     0.3562    -0.8574   0.000491
     0.5495    -0.8059   0.000491
     0.7425    -0.7534   0.000491
     0.9351    -0.6996   0.000491
     1.0500    -0.6670   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Pie de Pila-12
a4 a4 1 6000. 0. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    4522.24   -1083.19   10231.93 1
    1115.47     974.87    4515.50 2
    4522.24   -1083.19   10231.92 3
    1388.08     974.87     507.37 4
    1826.58   -1061.87    3904.50 5
    1723.17    1061.87    3617.21 6
    1867.29   -1083.19    3995.05 7
    1682.46    1083.19    3526.66 8
    1682.46    1083.19    3526.66 1
    1867.29   -1083.19    3995.05 2
    4522.24   -1083.19   10231.93 3
    1388.08     974.87     507.37 4
fin
```

Puente sobre el Rio Ebro * PILA - 12 * (Secc. a pie de pila)

Pie de Pila-12



Listado de resultados

Puente sobre el Rio Ebro * PILA - 12 * (Secc. a pie de pila)

NUMERO DE ELEMENTOS	729	
NUMERO DE ELEMENTOS DE HORMIGON	612	
NUMERO DE ELEMENTOS DE ACERO	116	
NUMERO DE ELEMENTOS DE PRETENSADO	1	
MODULO ELASTICIDAD ACERO	21000000.	TN/M2
RESISTENCIA DEL HORMIGON	3000	TN/M2
RESISTENCIA DEL ACERO	51000	TN/M2
RESISTENCIA DEL PRETENSADO	185760.	TN/M2
TENSION DEL PRETENSADO	0	TN/M2
MODULO DE ELASTICIDAD DEL PRETENSADO	[illegible]	TN/M2

AREA HORM.	26.876026	XCG	[illegible]
MOM.INER. X	23.677468	MOM INER Y	[illegible]
AREA ACERO	0.056956	XCG	[illegible]
MOM.INER. X	0.118339	MOM INER Y	[illegible]
AREA PRET.	0.000003	XCG	[illegible]
MOM.INER. X	0.000006	MOM INER Y	[illegible]

ELEMENTOS DE HORMIGON

NUMERO			
[illegible]			

84	-6.3000	-1.4296	0.06353651
85	-6.2333	1.4296	0.06353651
86	-6.2333	0.4765	0.06353651
87	-6.2333	-0.4765	0.06353651
88	-6.2333	-1.4296	0.06353651
89	-6.1667	1.4296	0.06353651
90	-6.1667	0.4765	0.06353651
91	-6.1667	-0.4765	0.06353651
92	-6.1667	-1.4296	0.06353651
93	-6.1000	1.4296	0.06353651
94	-6.1000	0.4765	0.06353651
95	-6.1000	-0.4765	0.06353651
96	-6.1000	-1.4296	0.06353651
97	-6.0333	1.4296	0.06353651
98	-6.0333	0.4765	0.06353651
99	-6.0333	-0.4765	0.06353651
100	-6.0333	-1.4296	0.06353651
101	-5.9667	1.4296	0.06353651
102	-5.9667	0.4765	0.06353651
103	-5.9667	-0.4765	0.06353651
104	-5.9667	-1.4296	0.06353651
105	-5.9000	1.4296	0.06353651
106	-5.9000	0.4765	0.06353651
107	-5.9000	-0.4765	0.06353651
108	-5.9000	-1.4296	0.06353651
109	-5.8333	1.4296	0.06353651
110	-5.8333	0.4765	0.06353651
111	-5.8333	-0.4765	0.06353651
112	-5.8333	-1.4296	0.06353651
113	-5.7667	1.4296	0.06353651
114	-5.7667	0.4765	0.06353651
115	-5.7667	-0.4765	0.06353651
116	-5.7667	-1.4296	0.06353651
117	-5.7000	1.4296	0.06353651
118	-5.7000	0.4765	0.06353651
119	-5.7000	-0.4765	0.06353651
120	-5.7000	-1.4296	0.06353651
121	-5.6333	1.4296	0.06353651
122	-5.6333	0.4765	0.06353651
123	-5.6333	-0.4765	0.06353651
124	-5.6333	-1.4296	0.06353651
125	-5.5643	1.3618	0.06484680
126	-5.5643	0.4539	0.06484680
127	-5.5643	-0.4539	0.06484680
128	-5.5643	-1.3618	0.06484680
129	-5.4929	1.3618	0.06484599
130	-5.4929	0.4539	0.06484599
131	-5.4929	-0.4539	0.06484599
132	-5.4929	-1.3618	0.06484599
133	-5.4214	1.3618	0.06484680
134	-5.4214	0.4539	0.06484680
135	-5.4214	-0.4539	0.06484680
136	-5.4214	-1.3618	0.06484680
137	-5.3500	1.3618	0.06484599
138	-5.3500	0.4539	0.06484599
139	-5.3500	-0.4539	0.06484599
140	-5.3500	-1.3618	0.06484599
141	-5.2786	1.3618	0.06484680
142	-5.2786	0.4539	0.06484680

143	-5.2706	-0.4237	0.06494599
144	-5.2706	-1.2710	0.06494599
145	-5.2706	1.2710	0.06484599
146	-5.2171	0.4237	0.06484599
147	-5.2171	-0.4237	0.06484599
148	-5.2171	-1.2710	0.06484599
149	-5.1357	1.2710	0.06494680
150	-5.1357	0.4237	0.06494680
151	-5.1357	-0.4237	0.06484680
152	-5.1357	-1.2710	0.06484680
153	-5.0643	1.2710	0.06484680
154	-5.0643	0.4237	0.06484680
155	-5.0643	-0.4237	0.06484680
156	-5.0643	-1.2710	0.06484680
157	-4.9829	1.2710	0.06484599
158	-4.9829	0.4237	0.06484599
159	-4.9829	-0.4237	0.06484599
160	-4.9829	-1.2710	0.06484599
161	-4.9294	1.2710	0.06484680
162	-4.9294	0.4237	0.06484680
163	-4.9294	-0.4237	0.06484680
164	-4.9294	-1.2710	0.06484680
165	-4.8580	1.2710	0.06484599
166	-4.8580	0.4237	0.06484599
167	-4.8580	-0.4237	0.06484599
168	-4.8580	-1.2710	0.06484599
169	-4.7766	1.2710	0.06484680
170	-4.7766	0.4237	0.06484680
171	-4.7766	-0.4237	0.06484680
172	-4.7766	-1.2710	0.06484680
173	-4.7231	1.2710	0.06484599
174	-4.7231	0.4237	0.06484599
175	-4.7231	-0.4237	0.06484599
176	-4.7231	-1.2710	0.06484599
177	-4.6517	1.2710	0.06484680
178	-4.6517	0.4237	0.06484680
179	-4.6517	-0.4237	0.06484680
180	-4.6517	-1.2710	0.06484680
181	-4.5703	1.2710	0.06484599
182	-4.5703	0.4237	0.06484599
183	-4.5703	-0.4237	0.06484599
184	-4.5703	-1.2710	0.06484599
185	-4.4846	1.2710	0.06518086
186	-4.4846	0.4237	0.06518086
187	-4.4846	-0.4237	0.06518097
188	-4.4846	-1.2710	0.06518097
189	-4.4077	1.2710	0.06518063
190	-4.4077	0.4237	0.06518063
191	-4.4077	-0.4237	0.06518063
192	-4.4077	-1.2710	0.06518063
193	-4.3308	1.2710	0.06518086
194	-4.3308	0.4237	0.06518086
195	-4.3308	-0.4237	0.06518097
196	-4.3308	-1.2710	0.06518097
197	-4.2538	1.2710	0.06518063
198	-4.2538	0.4237	0.06518063
199	-4.2538	-0.4237	0.06518063
200	-4.2539	-1.2710	0.06518063

201	-4.1769	1.2710	0.06518063
202	-4.1769	0.4237	0.06518063
203	-4.1769	-0.4237	0.06518063
204	-4.1769	-1.2710	0.06518063
205	-4.1000	1.2710	0.06518086
206	-4.1000	0.4237	0.06518086
207	-4.1000	-0.4237	0.06518097
208	-4.1000	-1.2710	0.06518097
209	-4.0231	1.2710	0.06518063
210	-4.0231	0.4237	0.06518063
211	-4.0231	-0.4237	0.06518063
212	-4.0231	-1.2710	0.06518063
213	-3.9462	1.2710	0.06518086
214	-3.9462	0.4237	0.06518086
215	-3.9462	-0.4237	0.06518097
216	-3.9462	-1.2710	0.06518097
217	-3.8692	1.2710	0.06518063
218	-3.8692	0.4237	0.06518063
219	-3.8692	-0.4237	0.06518063
220	-3.8692	-1.2710	0.06518063
221	-3.7923	1.2710	0.06518086
222	-3.7923	0.4237	0.06518086
223	-3.7923	-0.4237	0.06518097
224	-3.7923	-1.2710	0.06518097
225	-3.7154	1.2710	0.06518063
226	-3.7154	0.4237	0.06518063
227	-3.7154	-0.4237	0.06518063
228	-3.7154	-1.2710	0.06518063
229	-3.6385	1.2710	0.06518086
230	-3.6385	0.4237	0.06518086
231	-3.6385	-0.4237	0.06518097
232	-3.6385	-1.2710	0.06518097
233	-3.5563	1.2710	0.06518063
234	-3.5563	0.4237	0.06518063
235	-3.5563	-0.4237	0.06518063
236	-3.5563	-1.2710	0.06518063
237	-3.4750	1.2710	0.06518086
238	-3.4750	0.4237	0.06518086
239	-3.4750	-0.4237	0.06518097
240	-3.4750	-1.2710	0.06518097
241	-3.3917	1.2710	0.06518063
242	-3.3917	0.4237	0.06518063
243	-3.3917	-0.4237	0.06518063
244	-3.3917	-1.2710	0.06518063
245	-3.3083	1.2710	0.06518086
246	-3.3083	0.4237	0.06518086
247	-3.3083	-0.4237	0.06518097
248	-3.3083	-1.2710	0.06518097
249	-3.2250	1.2710	0.06518063
250	-3.2250	0.4237	0.06518063
251	-3.2250	-0.4237	0.06518063
252	-3.2250	-1.2710	0.06518063
253	-3.1417	1.2710	0.06518086
254	-3.1417	0.4237	0.06518086
255	-3.1417	-0.4237	0.06518097
256	-3.1417	-1.2710	0.06518097
257	-3.0583	1.2710	0.06518063
258	-3.0583	0.4237	0.06518063

316	-1.8273	-1.0199	0.06180915
317	-1.7304	1.0199	0.06180906
318	-1.7304	0.3399	0.06180906
319	-1.7304	-0.3400	0.06180906
320	-1.7304	-1.0199	0.06180903
321	-1.6455	1.0199	0.06180918
322	-1.6455	0.3399	0.06180918
323	-1.6455	-0.3400	0.06180915
324	-1.6455	-1.0199	0.06180915
325	-1.5500	0.8587	0.05724498
326	-1.5500	0.2862	0.05724498
327	-1.5500	-0.2862	0.05724498
328	-1.5500	-0.8587	0.05724498
329	-1.4500	0.8587	0.05724498
330	-1.4500	0.2862	0.05724498
331	-1.4500	-0.2862	0.05724498
332	-1.4500	-0.8587	0.05724498
333	-1.3500	0.8587	0.05724498
334	-1.3500	0.2862	0.05724498
335	-1.3500	-0.2862	0.05724498
336	-1.3500	-0.8587	0.05724498
337	-1.3500	0.2244	0.04986665
338	-1.2500	-0.2244	0.04986665
339	-1.2500	-0.6732	0.04986665
340	-1.2500	-1.1221	0.04986665
341	-1.1500	1.0587	0.05724498
342	-1.1500	0.4862	0.05724498
343	-1.1500	-0.0862	0.05724498
344	-1.1500	-0.6587	0.05724498
345	-1.0500	0.6587	0.05724498
346	-1.0500	0.0862	0.05724498
347	-1.0500	-0.4862	0.05724498
348	-1.0500	-1.0587	0.05724498
349	-0.9500	0.4862	0.05724498
350	-0.9500	-0.0862	0.05724498
351	-0.9500	-0.6587	0.05724498
352	-0.9500	-1.2312	0.05724498
353	-0.8500	0.6587	0.05724498
354	-0.8500	0.0862	0.05724498
355	-0.8500	-0.4862	0.05724498
356	-0.8500	-1.0587	0.05724498
357	-0.7500	0.0862	0.05724498
358	-0.7500	-0.4862	0.05724498
359	-0.7500	-1.0587	0.05724498
360	-0.7500	-0.8587	0.05724498
361	-0.8500	0.2587	0.05724498
362	-0.6500	0.2862	0.05724498
363	-0.6500	-0.2862	0.05724498
364	-0.6500	-0.8587	0.05724498
365	-0.5444	0.6732	0.04986665
366	-0.5444	0.2244	0.04986665
367	-0.5444	-0.2244	0.04986665
368	-0.5444	-0.6732	0.04986665
369	-0.4333	0.6732	0.04986665
370	-0.4333	0.2244	0.04986665
371	-0.4333	-0.2244	0.04986665
372	-0.4333	-0.6732	0.04986665
373	-0.3222	0.6732	0.04986668
374	-0.3222	0.2244	0.04986668

375	-0.3628	-0.1762	0.03083061
376	-0.3628	0.5285	0.03083061
377	-0.2811	0.1762	0.03083061
378	-0.2811	-0.1762	0.03083061
379	-0.2111	-0.5285	0.03083061
380	-0.2111	0.5285	0.03083061
381	-0.1111	0.1762	0.03083061
382	-0.1000	-0.1762	0.03083061
383	-0.0111	-0.5285	0.03083061
384	-0.0111	0.5285	0.03083061
385	0.0111	0.1762	0.03083061
386	0.0111	-0.1762	0.03083061
387	0.1111	-0.5285	0.03083061
388	0.1111	0.5285	0.03083061
389	0.1889	0.1762	0.03083061
390	0.1889	-0.1762	0.03083061
391	0.2889	-0.5285	0.03083061
392	0.2889	0.5285	0.03083061
393	0.3668	0.1762	0.03083061
394	0.3668	-0.1762	0.03083061
395	0.3668	-0.5285	0.03083061
396	0.4613	0.5285	0.03083061
397	0.4613	0.1762	0.03083061
398	0.4613	-0.1762	0.03083061
399	0.4613	-0.5285	0.03083061
400	0.5613	0.5285	0.03083061
401	0.5613	0.1762	0.03083061
402	0.5613	-0.1762	0.03083061
403	0.5613	-0.5285	0.03083061
404	0.6392	0.5285	0.03083061
405	0.6392	0.1762	0.03083061
406	0.6392	-0.1762	0.03083061
407	0.6392	-0.5285	0.03083061
408	0.7392	0.5285	0.03083061
409	0.7392	0.1762	0.03083061
410	0.7392	-0.1762	0.03083061
411	0.7392	-0.5285	0.03083061
412	0.8171	0.5285	0.03083061
413	0.8171	0.1762	0.03083061
414	0.8171	-0.1762	0.03083061
415	0.8171	-0.5285	0.03083061
416	0.9171	0.5285	0.03083061
417	0.9171	0.1762	0.03083061
418	0.9171	-0.1762	0.03083061
419	0.9171	-0.5285	0.03083061
420	0.9950	0.5285	0.03083061
421	0.9950	0.1762	0.03083061
422	0.9950	-0.1762	0.03083061
423	0.9950	-0.5285	0.03083061
424	1.0895	0.5285	0.03083061
425	1.0895	0.1762	0.03083061
426	1.0895	-0.1762	0.03083061
427	1.0895	-0.5285	0.03083061
428	1.1674	0.5285	0.03083061
429	1.1674	0.1762	0.03083061
430	1.1674	-0.1762	0.03083061
431	1.1674	-0.5285	0.03083061
432	1.2674	0.5285	0.03083061
433	1.2674	0.1762	0.03083061
434	1.2674	-0.1762	0.03083061
435	1.2674	-0.5285	0.03083061
436	1.3453	0.5285	0.03083061
437	1.3453	0.1762	0.03083061
438	1.3453	-0.1762	0.03083061
439	1.3453	-0.5285	0.03083061
440	1.4398	0.5285	0.03083061
441	1.4398	0.1762	0.03083061
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443	1.4398	-0.5285	0.03083061
444	1.5177	0.5285	0.03083061
445	1.5177	0.1762	0.03083061
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449	1.6177	0.1762	0.03083061
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451	1.6177	-0.5285	0.03083061
452	1.6956	0.5285	0.03083061
453	1.6956	0.1762	0.03083061
454	1.6956	-0.1762	0.03083061
455	1.6956	-0.5285	0.03083061
456	1.7901	0.5285	0.03083061
457	1.7901	0.1762	0.03083061
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459	1.7901	-0.5285	0.03083061
460	1.8680	0.5285	0.03083061
461	1.8680	0.1762	0.03083061
462	1.8680	-0.1762	0.03083061
463	1.8680	-0.5285	0.03083061
464	1.9680	0.5285	0.03083061
465	1.9680	0.1762	0.03083061
466	1.9680	-0.1762	0.03083061
467	1.9680	-0.5285	0.03083061
468	2.0459	0.5285	0.03083061
469	2.0459	0.1762	0.03083061
470	2.0459	-0.1762	0.03083061
471	2.0459	-0.5285	0.03083061
472	2.1404	0.5285	0.03083061
473	2.1404	0.1762	0.03083061
474	2.1404	-0.1762	0.03083061
475	2.1404	-0.5285	0.03083061
476	2.2183	0.5285	0.03083061
477	2.2183	0.1762	0.03083061
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479	2.2183	-0.5285	0.03083061
480	2.3183	0.5285	0.03083061
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483	2.3183	-0.5285	0.03083061
484	2.3962	0.5285	0.03083061
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487	2.3962	-0.5285	0.03083061
488	2.4907	0.5285	0.03083061
489	2.4907	0.1762	0.03083061
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491	2.4907	-0.5285	0.03083061
492	2.5686	0.5285	0.03083061
493	2.5686	0.1762	0.03083061
494	2.5686	-0.1762	0.03083061
495	2.5686	-0.5285	0.03083061
496	2.6686	0.5285	0.03083061
497	2.6686	0.1762	0.03083061
498	2.6686	-0.1762	0.03083061
499	2.6686	-0.5285	0.03083061
500	2.7465	0.5285	0.03083061
501	2.7465	0.1762	0.03083061
502	2.7465	-0.1762	0.03083061
503	2.7465	-0.5285	0.03083061
504	2.8410	0.5285	0.03083061
505	2.8410	0.1762	0.03083061
506	2.8410	-0.1762	0.03083061
507	2.8410	-0.5285	0.03083061
508	2.9189	0.5285	0.03083061
509	2.9189	0.1762	0.03083061
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511	2.9189	-0.5285	0.03083061
512	3.0189	0.5285	0.03083061
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515	3.0189	-0.5285	0.03083061
516	3.0968	0.5285	0.03083061
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519	3.0968	-0.5285	0.03083061
520	3.1913	0.5285	0.03083061
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523	3.1913	-0.5285	0.03083061
524	3.2692	0.5285	0.03083061
525	3.2692	0.1762	0.03083061
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528	3.3692	0.5285	0.03083061
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531	3.3692	-0.5285	0.03083061
532	3.4471	0.5285	0.03083061
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536	3.5416	0.5285	0.03083061
537	3.5416	0.1762	0.03083061
538	3.5416	-0.1762	0.03083061
539	3.5416	-0.5285	0.03083061
540	3.6195	0.5285	0.03083061
541	3.6195	0.1762	0.03083061
542	3.6195	-0.1762	0.03083061
543	3.6195	-0.5285	0.03083061
544	3.7195	0.5285	0.03083061
545	3.7195	0.1762	0.03083061
546	3.7195	-0.1762	0.03083061
547	3.7195	-0.5285	0.03083061
548	3.7974	0.5285	0.03083061
549	3.7974	0.1762	0.03083061
550	3.7974	-0.1762	0.03083061
551	3.7974	-0.5285	0.03083061
552	3.8919	0.5285	0.03083061
553	3.8919	0.1762	0.03083061
554	3.8919	-0.1762	0.03083061
555	3.8919	-0.5285	0.03083061
556	3.9698	0.5285	0.03083061
557	3.9698	0.1762	0.03083061
558	3.9698	-0.1762	0.03083061
559	3.9698	-0.5285	0.03083061
560	4.0698	0.5285	0.03083061
561	4.0698	0.1762	0.03083061
562	4.0698	-0.1762	0.03083061
563	4.0698	-0.5285	0.03083061
564	4.1477	0.5285	0.03083061
565	4.1477	0.1762	0.03083061
566	4.1477	-0.1762	0.03083061
567	4.1477	-0.5285	0.03083061
568	4.2422	0.5285	0.03083061
569	4.2422	0.1762	0.03083061
570	4.2422	-0.1762	0.03083061
571	4.2422	-0.5285	0.03083061
572	4.3201	0.5285	0.03083061
573	4.3201	0.1762	0.03083061
574	4.3201	-0.1762	0.03083061
575	4.3201	-0.5285	0.03083061
576	4.4201	0.5285	0.03083061
577	4.4201	0.1762	0.03083061
578	4.4201	-0.1762	0.03083061
579	4.4201	-0.5285	0.03083061
580	4.4980	0.5285	0.03083061
581	4.4980	0.1762	0.03083061
582	4.4980	-0.1762	0.03083061
583	4.4980	-0.5285	0.03083061
584	4.5925	0.5285	0.03083061
585	4.5925	0.1762	0.03083061
586	4.5925	-0.1762	0.03083061
587	4.5925	-0.5285	0.03083061
588	4.6704	0.5285	0.03083061
589	4.6704	0.1762	0.03083061
590	4.6704	-0.1762	0.03083061
591	4.6704	-0.5285	0.03083061
592	4.7704	0.5285	0.03083061
593	4.7704	0.1762	0.03083061
594	4.7704	-0.1762	0.03083061
595	4.7704	-0.5285	0.03083061
596	4.8483	0.5285	0.03083061
597	4.8483	0.1762	0.03083061
598	4.8483	-0.1762	0.03083061
599	4.8483	-0.5285	0.03083061
600	4.9428	0.5285	0.03083061
601	4.9428	0.1762	0.03083061
602	4.9428	-0.1762	0.03083061
603	4.9428	-0.5285	0.03083061
604	5.0207	0.5285	0.03083061
605	5.0207	0.1762	0.03083061
606	5.0207	-0.1762	0.03083061
607	5.0207	-0.5285	0.03083061
608	5.1207	0.5285	0.03083061
609	5.1207	0.1762	0.03083061
610	5.1207	-0.1762	0.03083061
611	5.1207	-0.5285	0.03083061
612	5.1986	0.5285	0.03083061
613	5.1986	0.1762	0.03083061
614	5.1986	-0.1762	0.03083061
615	5.1986	-0.5285	0.03083061
616	5.2931	0.5285	0.03083061
617	5.2931	0.1762	0.03083061
618	5.2931	-0.1762	0.03083061
619	5.2931	-0.5285	0.03083061
620	5.3710	0.5285	0.03083061
621	5.3710	0.1762	0.03083061
622	5.3710	-0.1762	0.03083061
623	5.3710	-0.5285	0.03083061
624	5.4710	0.5285	0.03083061
625	5.4710	0.1762	0.03083061
626	5.4710	-0.1762	0.03083061
627	5.4710	-0.5285	0.03083061
628	5.5489	0.5285	0.03083061
629	5.5489	0.1762	0.03083061
630	5.5489	-0.1762	0.03083061
631	5.5489	-0.5285	0.03083061
632	5.6434	0.5285	0.03083061
633	5.6434	0.1762	0.03083061
634	5.6434	-0.1762	0.03083061
635	5.6434	-0.5285	0.03083061
636	5.7213	0.5285	0.03083061
637	5.7213	0.1762	0.03083061
638	5.7213	-0.1762	0.03083061
639	5.7213	-0.5285	0.03083061
640	5.8213	0.5285	0.03083061
641	5.8213	0.1762	0.03083061
642	5.8213	-0.1762	0.03083061
643	5.8213	-0.5285	0.03083061
644	5.8992	0.5285	0.03083061
645	5.8992	0.1762	0.03083061
646	5.8992	-0.1762	0.03083061
647	5.8992	-0.5285	0.03083061
648	5.9937	0.5285	0.03083061
649	5.9937	0.1762	0.03083061
650	5.9937	-0.1762	0.03083061
651	5.9937	-0.5285	0.03083061
652	6.0716	0.5285	0.03083061
653	6.0716	0.1762	0.03083061
654	6.0716	-0.1762	0.03083061
655	6.0716	-0.5285	0.03083061
656	6.1716	0.5285	0.03083061
657	6.1716	0.1762	0.03083061
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659	6.1716	-0.5285	0.03083061
660	6.2495	0.5285	0.03083061
661	6.2495	0.1762	0.03083061
662	6.2495	-0.1762	0.03083061
663	6.2495	-0.5285	0.03083061
664	6.3440	0.5285	0.03083061
665	6.3440	0.1762	0.03083061
666	6.3440	-0.1762	0.03083061
667	6.3440	-0.5285	0.03083061
668	6.4219	0.5285	0.03083061
669	6.4219	0.1762	0.03083061
670	6.4219	-0.1762	0.03083061
671	6.4219	-0.5285	0.03083061
672	6.5219	0.5285	0.03083061
673	6.5219	0.1762	0.03083061
674	6.5219	-0.1762	0.03083061
675	6.5219	-0.5285	0.03083061
676	6.5998	0.5285	0.03083061
677	6.5998	0.1762	0.03083061
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679	6.5998	-0.5285	0.03083061
680	6.6943	0.5285	0.03083061
681	6.6943	0.1762	0.03083061
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683	6.6943	-0.5285	0.03083061
684	6.7722	0.5285	0.03083061
685	6.7722	0.1762	0.03083061
686	6.7722	-0.1762	0.03083061
687	6.7722	-0.5285	0.03083061
688	6.8722	0.5285	0.03083061
689	6.8722	0.1762	0.03083061
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691	6.8722	-0.5285	0.03083061
692	6.9501	0.5285	0.03083061
693	6.9501	0.1762	0.03083061
694	6.9501	-0.1762	0.03083061
695	6.9501	-0.5285	0.03083061
696	7.0446	0.5285	0.03083061
697	7.0446	0.1762	0.03083061
698	7.0446	-0.1762	0.03083061
699	7.0446	-0.5285	0.03083061
700	7.1225	0.5285	0.03083061
701	7.1225	0.1762	0.03083061
702	7.1225	-0.1762	0.03083061
703	7.1225	-0.5285	0.03083061
704	7.2225	0.5285	0.03083061
705	7.2225	0.1762	0.03083061
706	7.2225	-0.1762	0.03083061
707	7.2225	-0.5285	0.03083061
708	7.3004	0.5285	0.03083061
709	7.3004	0.1762	0.03083061
710	7.3004	-0.1762	0.03083061
711	7.3004	-0.5285	0.03083061
712	7.3949	0.5285	0.03083061
713	7.3949	0.1762	0.03083061
714	7.3949	-0.1762	0.03083061
715	7.3949	-0.5285	0.03083061
716	7.4728	0.5285	0.03083061
717	7.4728	0.1762	0.03083061
718	7.4728	-0.1762	0.03083061
719	7.4728	-0.5285	0.03083061
720	7.5728	0.5285	0.03083061
721	7.5728	0.1762	0.03083061
722	7.5728	-0.1762	0.03083061
723	7.5728	-0.5285	0.03083061
724	7.6507	0.5285	0.03083061
725	7.6507	0.1762	0.03083061
726	7.6507	-0.1762	0.03083061
727	7.6507	-0.5285	0.03083061
728	7.7452	0.5285	0.03083061
729	7.7452	0.1762	0.03083061
730	7.7452	-0.1762	0.03083061
731	7.7452	-0.5285	0.03083061
732	7.8231	0.5285	0.03083061
733	7.8231	0.1762	0.03083061
734	7.8231	-0.1762	0.03083061
735	7.8231	-0.5285	0.03083061
736	7.9231	0.5285	0.03083061
737	7.9231	0.1762	0.03083061
738	7.9231	-0.1762	0.03083061
739	7.9231	-0.5285	0.03083061
740	8.0010	0.5285	0.03083061
741	8.0010	0.1762	0.03083061
742	8.0010	-0.1762	0.03083061
743	8.0010	-0.5285	0.03083061
744	8.0955	0.5285	0.03083061
745	8.0955	0.1762	0.03083061
746	8.0955	-0.1762	0.03083061
747	8.0955	-0.5285	0.03083061
748	8.1734	0.5285	0.03083061
749	8.1734	0.1762	0.03083061
750	8.1734	-0.1762	0.03083061
751	8.1734	-0.5285	0.03083061
752	8.2734	0.5285	0.03083061
753	8.2734	0.1762	0.03083061
754	8.2734	-0.1762	0.03083061
755	8.2734	-0.5285	0.03083061
756	8.3513	0.5285	0.03083061
757	8.3513	0.1762	0.03083061
758	8.3513	-0.1762	0.03083061
759	8.3513	-0.5285	0.03083061
760	8.4458	0.5285	0.03083061
761	8.4458	0.1762	0.03083061
762	8.4458	-0.1762	0.03083061
763	8.4458	-0.5285	0.03083061
764	8.5237	0.5285	0.03083061
765	8.5237	0.1762	0.03083061
766	8.5237	-0.1762	0.03083061
767	8.5237	-0.5285	0.03083061
768	8.6237	0.5285	0.03083061
769	8.6237	0.1762	0.03083061
770	8.6237	-0.1762	0.03083061
771	8.6237	-0.5285	0.03083061
772	8.7016	0.5285	0.03083061
773	8.7016	0.1762	0.03083061
774	8.7016	-0.1762	0.03083061
775	8.7016	-0.5285	0.03083061
776	8.7961	0.5285	0.03083061
777	8.7961	0.1762	0.03083061
778	8.7961	-0.1762	0.03083061
779	8.7961	-0.5285	0.03083061
780	8.8740	0.5285	0.03083061
781	8.8740	0.1762	0.03083061
782	8.8740	-0.1762	0.03083061
783	8.8740	-0.5285	0.03083061
784	8.9740	0.5285	0.03083061
785	8.9740	0.1762	0.03083061
786	8.9740	-0.1762	0.03083061
787	8.9740	-0.5285	0.03083061
788	9.0519	0.5285	0.03083061
789	9.0519	0.1762	0.03083061
790	9.0519	-0.1762	0.03083061
791	9.0519	-0.5285	0.03083061
792	9.1464	0.5285	0.03083061
793	9.1464	0.1762	0.03083061
794	9.1464	-0.1762	0.03083061
795	9.1464	-0.5285	0.03083061
796	9.2243	0.5285	0.03083061
797	9.2243	0.1762	0.03083061
798	9.2243	-0.1762	0.03083061
799	9.2243	-0.5285	0.03083061
800	9.3243	0.5285	0.03083061
801	9.3243	0.1762	0.03083061
802	9.3243	-0.1762	0.03083061
803	9.3243	-0.5285	0.03083061
804	9.4022	0.5285	0.03083061
805	9.4022	0.1762	0.03083061
806	9.4022	-0.1762	0.03083061
807	9.4022	-0.5285	0.03083061
808	9.4967	0.5285	0.03083061
809	9.4967	0.1762	0.03083061
810	9.4967	-0.1762	0.03083061
811	9.4967	-0.5285	0.03083061
812	9.5746	0.5285	0.03083061
813	9.5746	0.1762	0.03083061
814	9.5746	-0.1762	0.03083061
815	9.5746	-0.5285	0.03083061
816	9.6746	0.5285	0.03083061
817	9.6746	0.1762	0.03083061
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819	9.6746	-0.5285	0.03083061
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821	9.7525	0.1762	0.03083061
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824	9.8470	0.5285	0.03083061
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828	9.9249	0.5285	0.03083061
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836	10.1028	0.5285	0.03083061
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839	10.1028	-0.5285	0.03083061
840	10.1973	0.5285	0.03083061
841	10.1973	0.1762	0.03083061
842	10.1973	-0.1762	0.03083061
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844	10.2752	0.5285	0.03083061
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848	10.3752	0.5285	0.03083061
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860	10.6255	0.5285	0.03083061
861	10.6255	0.1762	0.03083061
862	10.6255	-0.1762	0.03083061
863	10.6255	-0.5285	0.03083061
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865	10.7255	0.1762	0.03083061
866	10.7255	-0.1762	0.03083061
867	10.7255	-0.5285	0.03083061
868	10.8034	0.5285	0.03083061
869	10.8034	0.1762	0.03083061
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871	10.8034	-0.5285	0.03083061
872	10.8979	0.5285	0.03083061
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880	11.0758	0.5285	0.03083061
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895	11.3261	-0.5285	0.03083061
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899	11.4261	-0.5285	0.03083061
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901	11.5040	0.1762	0.03083061
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904	11.5985	0.5285	0.03083061
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911	11.6764	-0.5285	0.03083061
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915	11.7764	-0.5285	0.03083061
916	11.8543	0.5285	0.03083061
917	11.8543	0.1762	0.03083061
918	11.8543	-0.1762	0.03083061
919	11.8543	-0.5285	0.03083061
920	11.9488	0.5285	0.03083061
921	11.9488	0.1762	0.03083061
922	11.9488	-0.1762	0.03083061
923	11.9488	-0.5285	0.03083061
924	12.0267	0.5285	0.03083061
925	12.0267	0.1762	0.03083061
926	12.0267	-0.1762	0.03083061
927	12.0267	-0.5285	0.03083061
928	12.1267	0.5285	0.03083061
929	12.1267	0.1762	0.03083061
930	12.1267	-0.1762	0.03083061
931	12.1267	-0.5285	0.03083061
932	12.2046	0.5285	0.03083061
933	12.2046	0.1762	0.03083061
934	12.2046	-0.1762	0.03083061
935	12.2046	-0.5285	0.03083061
936	12.2991	0.5285	0.03083061
937	12.2991	0.1762	0.03083061
938	12.2991	-0.1762	0.03083061
939	12.2991	-0.5285	0.03083061
940	12.3770	0.5285	0.03083061
941	12.3770	0.1762	0.03083061
942	12.3770	-0.1762	0.03083061
943	12.3770	-0.5285	0.03083061
944	12.4770	0.5285	0.03083061
945	12.4770	0.1762	0.03083

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550	-5.1000	-1.8970	0.01504998
551	-5.3500	-1.9170	0.00564998
552	-5.5167	-1.8970	0.00282499
553	-4.5167	-1.7985	0.00377126
554	-4.3500	-1.7702	0.00756849
555	-4.5167	-1.7653	0.00378124
556	-4.1000	-1.7401	0.00756849
557	-4.3500	-1.7401	0.00756849
558	-4.5167	-1.7350	0.00378124
559	-3.8500	-1.7098	0.00756252
560	-4.1000	-1.7098	0.00756252
561	-4.3500	-1.7098	0.00756252
562	-4.5167	-1.7046	0.00378124
563	-3.5167	-1.6814	0.01474075
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565	-3.5167	-1.6814	0.01474075
566	-3.1000	-1.6562	0.00756252
567	-3.3500	-1.6562	0.00756252
568	-3.5167	-1.6510	0.00378124
569	-3.8500	-1.6510	0.00378124
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571	-3.3500	-1.6258	0.00756252
572	-3.5167	-1.6206	0.00378124
573	-3.8500	-1.6206	0.00378124
574	-3.3500	-1.5954	0.00756252
575	-3.5167	-1.5902	0.00378124
576	-3.1000	-1.5650	0.00756252
577	-3.3500	-1.5650	0.00756252
578	-3.5167	-1.5598	0.00378124
579	-3.8500	-1.5598	0.00378124
580	-3.1000	-1.5346	0.00756252
581	-3.3500	-1.5346	0.00756252
582	-3.5167	-1.5294	0.00378124
583	-3.1000	-1.5042	0.00756252
584	-3.3500	-1.4990	0.00756252
585	-3.5167	-1.4990	0.00378124
586	-3.1000	-1.4738	0.00756252
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589	-3.8500	-1.4686	0.00378124
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593	-3.8500	-1.4382	0.00378124
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596	-3.5167	-1.4078	0.00378124
597	-3.8500	-1.4078	0.00378124
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600	-3.5167	-1.3774	0.00378124
601	-3.8500	-1.3774	0.00378124
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603	-3.3500	-1.3470	0.00756252
604	-3.5167	-1.3470	0.00378124
605	-3.8500	-1.3470	0.00378124
606	-3.1000	-1.3218	0.00756252

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408	-2.5167	-1.3687	0.01504998
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426	-1.5167	-1.3277	0.00282499
427	-1.1000	-1.3130	0.00564998
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430	-1.1000	-1.2983	0.00564998
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544	-1.5167	-0.7544	0.00282499
545	-1.1000	-0.7397	0.00564998
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547	-1.5167	-0.7397	0.00282499
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607	0.5760	-0.7714	0.00843937
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610	0.1360	-0.7836	0.00843937
611	0.5760	-0.7869	0.00843937
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ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
613	-7.5560	1.8454	0.00049100
614	-7.5560	1.7406	0.00049100
615	-7.5560	1.6358	0.00049100
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718	-0.8096	-1.1414	0.00049100
719	-0.6146	-1.0970	0.00049100
720	-0.4199	-1.0514	0.00049100
721	-0.2254	-1.0046	0.00049100
722	-0.0312	-0.9567	0.00049100
723	0.1626	-0.9076	0.00049100
724	0.3562	-0.8574	0.00049100
725	0.5495	-0.8059	0.00049100
726	0.7425	-0.7534	0.00049100
727	0.9351	-0.6996	0.00049100
728	1.0500	-0.6670	0.00049100

ELEMENTOS DE PRETENSADO

NUMERO	X	Y	AREA
729	0.0000	0.0000	0.00000000

RESULTADOS

ALFA	N	MX	MY
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90.00	-2050.907	0.000	1833.397
90.00	-1816.631	0.000	2918.661
90.00	-1459.639	0.000	4551.722
90.00	-985.606	0.000	6674.911
90.00	-405.009	0.000	9211.234
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90.00	1036.874	0.000	15206.245
90.00	1853.779	0.000	18387.984
90.00	2692.315	0.000	21461.900
90.00	3562.855	0.000	24472.646
90.00	4466.933	0.000	27413.250
90.00	5285.791	0.000	29865.320
90.00	6051.591	0.000	31983.814
90.00	6837.363	0.000	34025.184
90.00	7637.647	0.000	35964.281
90.00	8453.384	0.000	37804.836
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100.00	-2443.566	11.126	54.517
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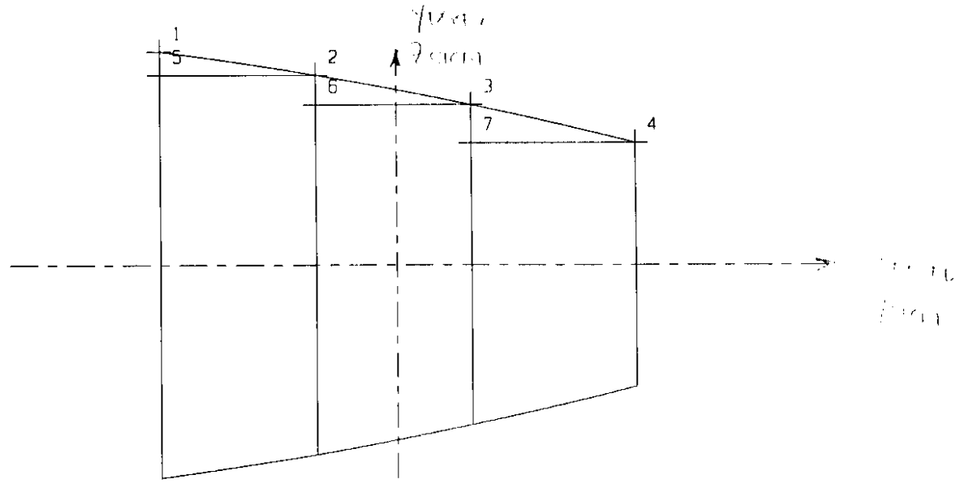
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160.00	-3780.060	371.521	-866.758	
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90.00	4812.282	10142.704	-10025.184	
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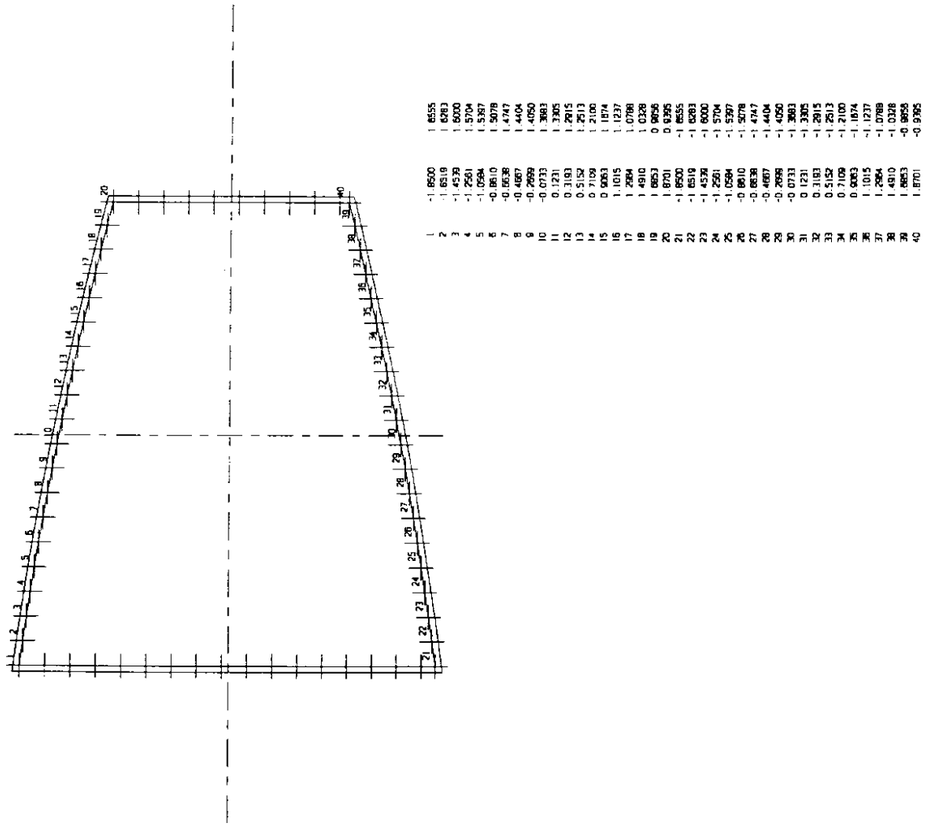
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Seccion por garganta de pila

Comprobacion a flexion esviada



1	-1.9000	1.7126
2	-0.6500	1.5231
3	0.6000	1.2847
4	1.9201	0.9785
5	-1.9000	1.5231
6	-0.6500	1.2847
7	0.6000	0.9785

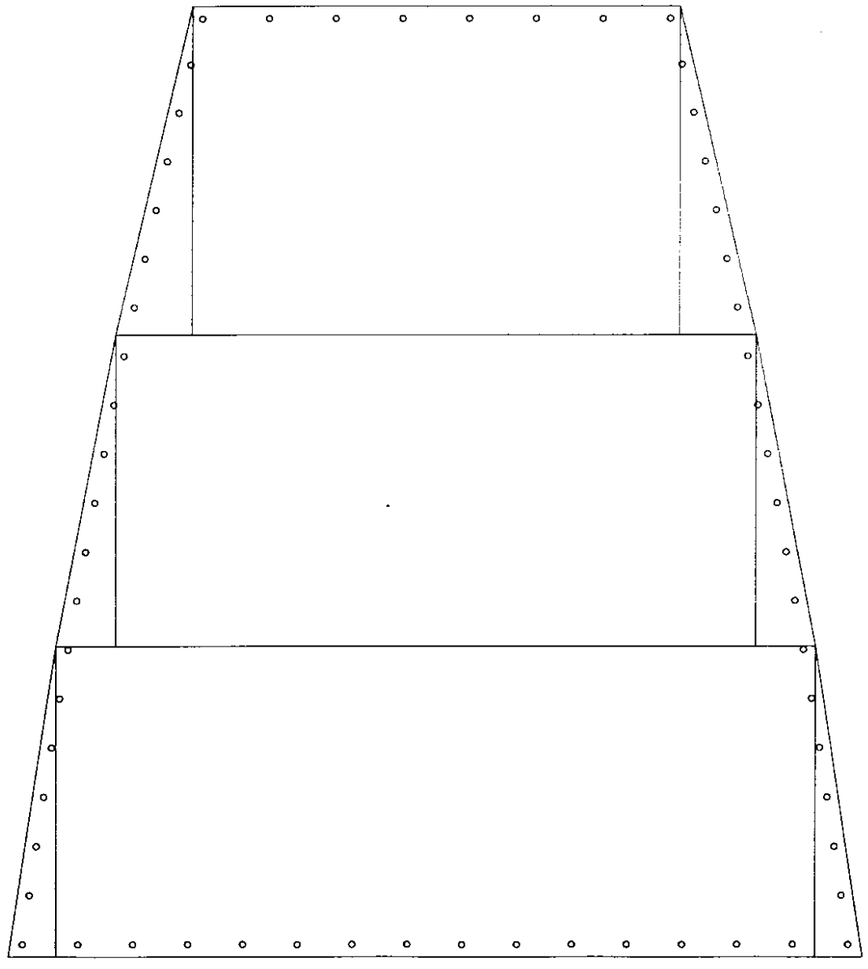


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Puente sobre el Rio Ebro * PILA - 7 * (Secc. en garganta pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.9000  1.5231 -0.6500  1.5231 -0.6500 -1.5231 12 4
-0.6500  1.2847  0.6000  1.2847  0.6000 -1.2847 10 4
 0.6000  0.9785  1.9201  0.9785  1.9201 -0.9785  8 4
tri
-1.9000  1.7126 -0.6500  1.5231 -1.9000  1.5231 4
-0.6500  1.5231  0.6000  1.2847 -0.6500  1.2847 4
 0.6000  1.2847  1.9201  0.9785  0.6000  0.9785 4
-1.9000 -1.7126 -0.6500 -1.5231 -1.9000 -1.5231 4
-0.6500 -1.5231  0.6000 -1.2847 -0.6500 -1.2847 4
 0.6000 -1.2847  1.9201 -0.9785  0.6000 -0.9785 4
ace
line
-1.8500  1.6555 -1.8500 -1.6555 16 0.000491
 1.8701  0.9395  1.8701 -0.9395  8 0.000491
pun
   -1.8500     1.6555   0.000491
   -1.6519     1.6283   0.000491
   -1.4539     1.6000   0.000491
   -1.2561     1.5704   0.000491
   -1.0584     1.5397   0.000491
   -0.8610     1.5078   0.000491
   -0.6638     1.4747   0.000491
   -0.4667     1.4404   0.000491
   -0.2699     1.4050   0.000491
   -0.0733     1.3683   0.000491
    0.1231     1.3305   0.000491
    0.3193     1.2915   0.000491
    0.5152     1.2513   0.000491
    0.7109     1.2100   0.000491
    0.9063     1.1674   0.000491
    1.1015     1.1237   0.000491
    1.2964     1.0788   0.000491
    1.4910     1.0328   0.000491
    1.6853     0.9856   0.000491
    1.8701     0.9395   0.000491
   -1.8500    -1.6555   0.000491
   -1.6519    -1.6283   0.000491
   -1.4539    -1.6000   0.000491
   -1.2561    -1.5704   0.000491
   -1.0584    -1.5397   0.000491
   -0.8610    -1.5078   0.000491
   -0.6638    -1.4747   0.000491
   -0.4667    -1.4404   0.000491
   -0.2699    -1.4050   0.000491
   -0.0733    -1.3683   0.000491
    0.1231    -1.3305   0.000491
    0.3193    -1.2915   0.000491
    0.5152    -1.2513   0.000491
    0.7109    -1.2100   0.000491
    0.9063    -1.1674   0.000491
    1.1015    -1.1237   0.000491
```

```
     1.2964     -1.0788    0.000491
     1.4910     -1.0328    0.000491
     1.6853     -0.9856    0.000491
     1.8701     -0.9395    0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 2500. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    1991.34      139.42    1451.85 1
     191.42     -125.48     488.08 2
    1649.01      125.48    1506.89 3
     458.56     -139.42     319.12 4
     461.02      139.42     320.97 5
     459.79        0.00     320.04 6
     459.79        0.00     320.04 7
     461.02      139.42     320.97 8
     458.56     -139.42     319.12 1
    1649.01      125.48    1506.89 2
fin
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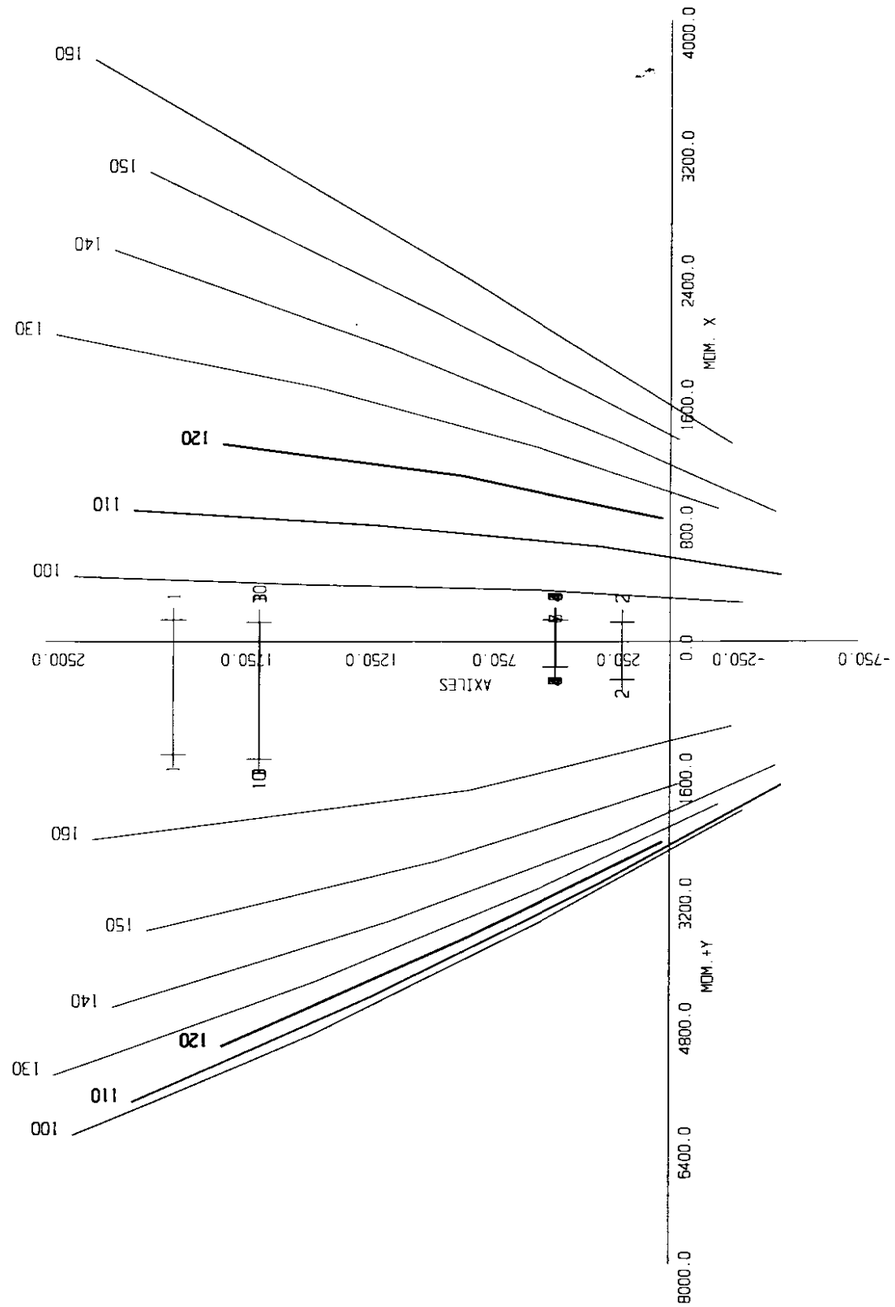
Puente sobre el Rio Ebro * PILA - 7 * (Secc. en garganta pila)

escala = 1/ 25



Puente sobre el Rio Ebro * PILA - 7 * (Secc. en garganta pila)

Garganta de Pila

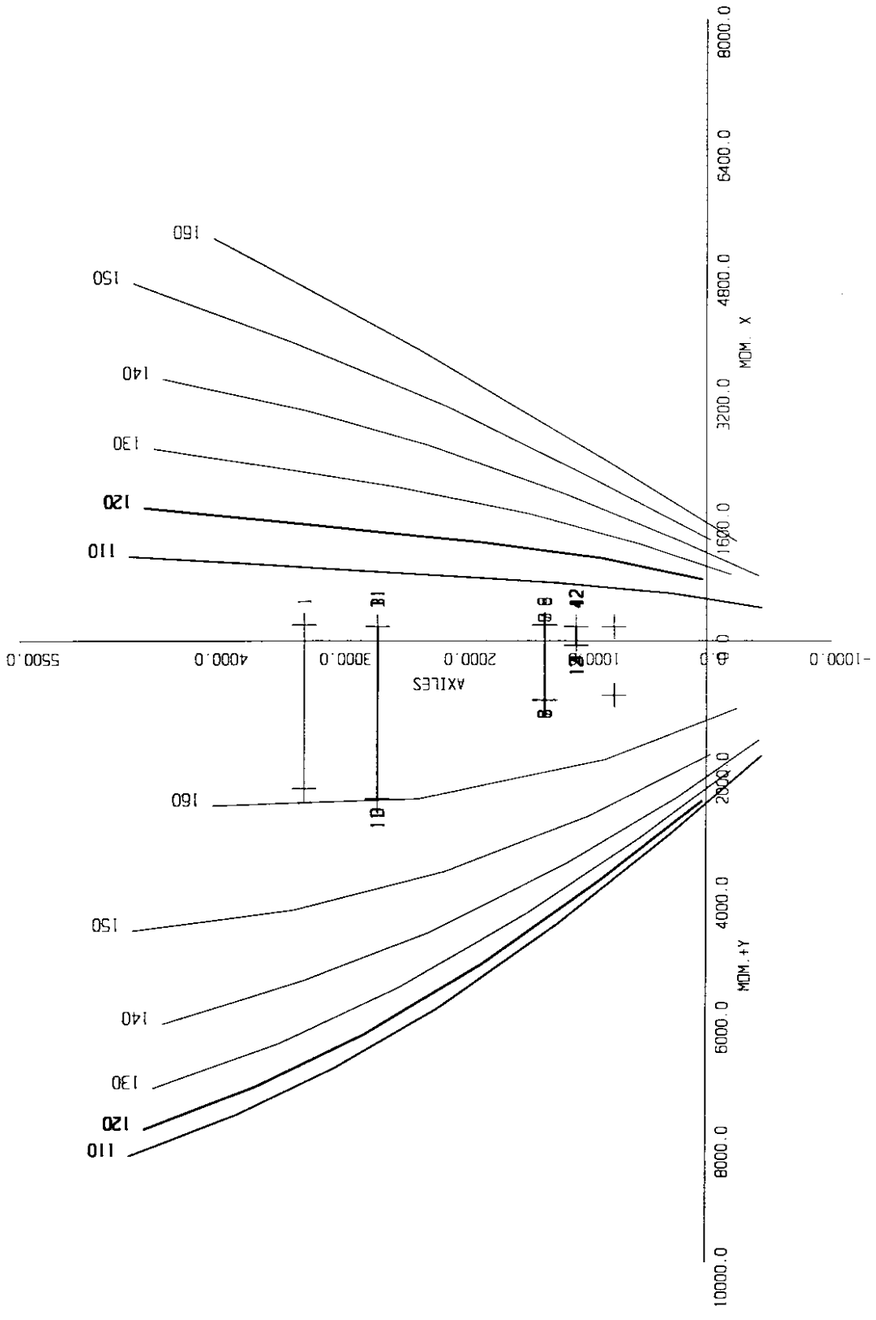



```
Puente sobre el Rio Ebro * PILA - 8 * (Secc. en garganta pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.9000  1.5231 -0.6500  1.5231 -0.6500 -1.5231 12 4
-0.6500  1.2847  0.6000  1.2847  0.6000 -1.2847 10 4
 0.6000  0.9785  1.9201  0.9785  1.9201 -0.9785  8 4
tri
-1.9000  1.7126 -0.6500  1.5231 -1.9000  1.5231 4
-0.6500  1.5231  0.6000  1.2847 -0.6500  1.2847 4
 0.6000  1.2847  1.9201  0.9785  0.6000  0.9785 4
-1.9000 -1.7126 -0.6500 -1.5231 -1.9000 -1.5231 4
-0.6500 -1.5231  0.6000 -1.2847 -0.6500 -1.2847 4
 0.6000 -1.2847  1.9201 -0.9785  0.6000 -0.9785 4
ace
line
-1.8500  1.6555 -1.8500 -1.6555 16 0.000491
 1.8701  0.9395  1.8701 -0.9395  8 0.000491
pun
   -1.8500     1.6555   0.000491
   -1.6519     1.6283   0.000491
   -1.4539     1.6000   0.000491
   -1.2561     1.5704   0.000491
   -1.0584     1.5397   0.000491
   -0.8610     1.5078   0.000491
   -0.6638     1.4747   0.000491
   -0.4667     1.4404   0.000491
   -0.2699     1.4050   0.000491
   -0.0733     1.3683   0.000491
    0.1231     1.3305   0.000491
    0.3193     1.2915   0.000491
    0.5152     1.2513   0.000491
    0.7109     1.2100   0.000491
    0.9063     1.1674   0.000491
    1.1015     1.1237   0.000491
    1.2964     1.0788   0.000491
    1.4910     1.0328   0.000491
    1.6853     0.9856   0.000491
    1.8701     0.9395   0.000491
   -1.8500    -1.6555   0.000491
   -1.6519    -1.6283   0.000491
   -1.4539    -1.6000   0.000491
   -1.2561    -1.5704   0.000491
   -1.0584    -1.5397   0.000491
   -0.8610    -1.5078   0.000491
   -0.6638    -1.4747   0.000491
   -0.4667    -1.4404   0.000491
   -0.2699    -1.4050   0.000491
   -0.0733    -1.3683   0.000491
    0.1231    -1.3305   0.000491
    0.3193    -1.2915   0.000491
    0.5152    -1.2513   0.000491
    0.7109    -1.2100   0.000491
    0.9063    -1.1674   0.000491
    1.1015    -1.1237   0.000491
```

```
     1.2964    -1.0788   0.000491
     1.4910    -1.0328   0.000491
     1.6853    -0.9856   0.000491
     1.8701    -0.9395   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 5000. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    3227.35     205.38    2378.54 1
     735.50    -184.84     872.31 2
    2638.34     184.84    2537.19 3
    1039.53    -184.84      69.06 4
    1289.39    -205.38     942.03 5
    1297.47     205.38     948.08 6
    1293.43       0.00     945.05 7
    1293.43       0.00     945.05 8
    1297.47     205.38     948.08 1
    1289.39    -205.38     942.03 2
    2638.34     184.84    2537.19 3
    1039.53    -184.84      69.06 4
fin
```

Puente sobre el Rio Ebro * PILA - 8 * (Secc. en garganta pila)

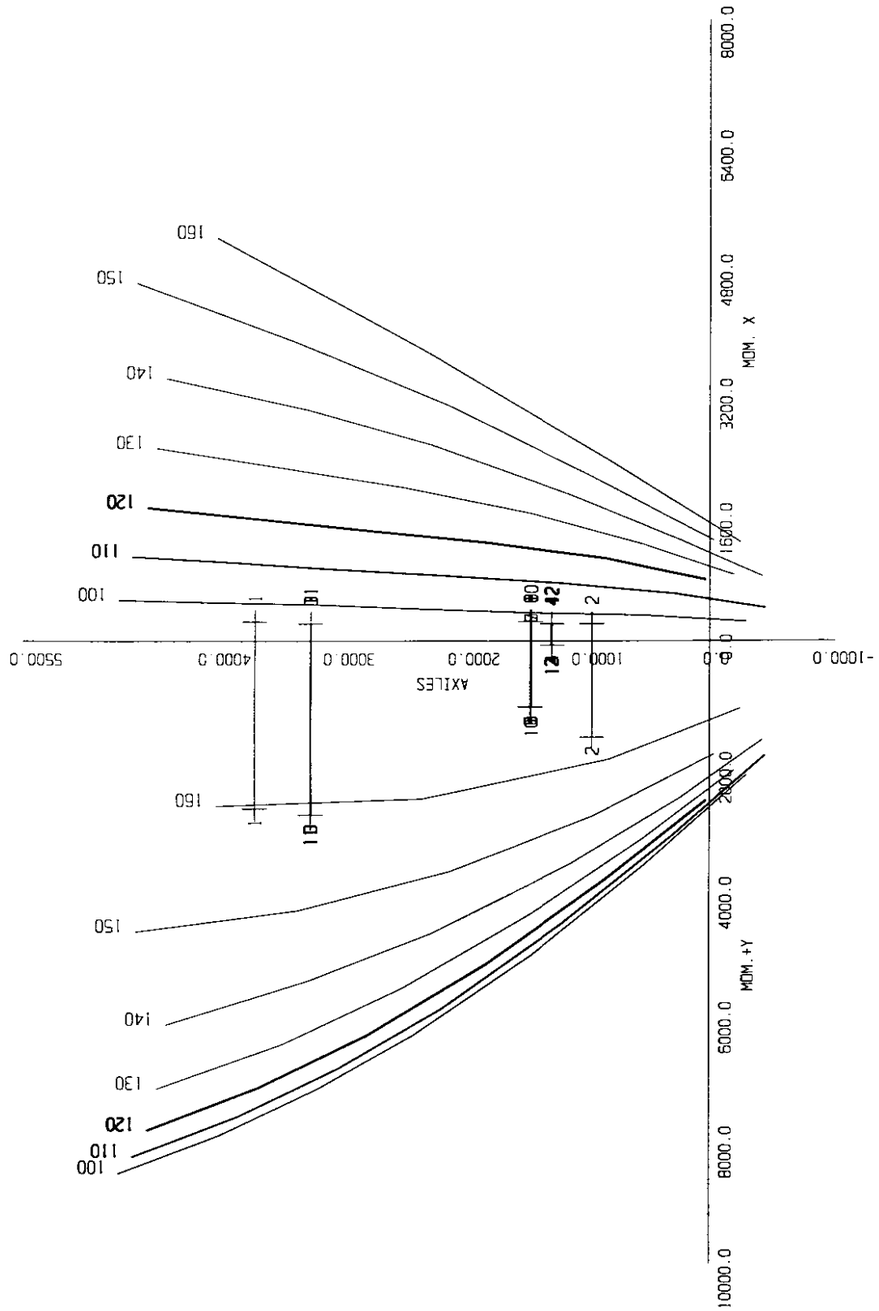
Garganta de Pila



```
Puente sobre el Rio Ebro * PILA - 11 * (Secc. en garganta pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.9000  1.5231 -0.6500  1.5231 -0.6500 -1.5231 12 4
-0.6500  1.2847  0.6000  1.2847  0.6000 -1.2847 10 4
 0.6000  0.9785  1.9201  0.9785  1.9201 -0.9785  8 4
tri
-1.9000  1.7126 -0.6500  1.5231 -1.9000  1.5231 4
-0.6500  1.5231  0.6000  1.2847 -0.6500  1.2847 4
 0.6000  1.2847  1.9201  0.9785  0.6000  0.9785 4
-1.9000 -1.7126 -0.6500 -1.5231 -1.9000 -1.5231 4
-0.6500 -1.5231  0.6000 -1.2847 -0.6500 -1.2847 4
 0.6000 -1.2847  1.9201 -0.9785  0.6000 -0.9785 4
ace
line
-1.8500  1.6555 -1.8500 -1.6555 16 0.000491
 1.8701  0.9395  1.8701 -0.9395  8 0.000491
pun
   -1.8500     1.6555   0.000491
   -1.6519     1.6283   0.000491
   -1.4539     1.6000   0.000491
   -1.2561     1.5704   0.000491
   -1.0584     1.5397   0.000491
   -0.8610     1.5078   0.000491
   -0.6638     1.4747   0.000491
   -0.4667     1.4404   0.000491
   -0.2699     1.4050   0.000491
   -0.0733     1.3683   0.000491
    0.1231     1.3305   0.000491
    0.3193     1.2915   0.000491
    0.5152     1.2513   0.000491
    0.7109     1.2100   0.000491
    0.9063     1.1674   0.000491
    1.1015     1.1237   0.000491
    1.2964     1.0788   0.000491
    1.4910     1.0328   0.000491
    1.6853     0.9856   0.000491
    1.8701     0.9395   0.000491
   -1.8500    -1.6555   0.000491
   -1.6519    -1.6283   0.000491
   -1.4539    -1.6000   0.000491
   -1.2561    -1.5704   0.000491
   -1.0584    -1.5397   0.000491
   -0.8610    -1.5078   0.000491
   -0.6638    -1.4747   0.000491
   -0.4667    -1.4404   0.000491
   -0.2699    -1.4050   0.000491
   -0.0733    -1.3683   0.000491
    0.1231    -1.3305   0.000491
    0.3193    -1.2915   0.000491
    0.5152    -1.2513   0.000491
    0.7109    -1.2100   0.000491
    0.9063    -1.1674   0.000491
    1.1015    -1.1237   0.000491
    1.2964    -1.0788   0.000491
    1.4910    -1.0328   0.000491
    1.6853    -0.9856   0.000491
    1.8701    -0.9395   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 5000. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    3651.61     248.23    2696.62 1
     942.36    -223.41    1546.19 2
    3205.45     223.41    2797.19 3
    1266.32    -223.41      65.34 4
    1435.64    -248.23    1051.68 5
    1444.24     248.23    1058.12 6
    1439.94       0.00    1054.90 7
    1439.94       0.00    1054.90 8
    1444.24     248.23    1058.12 1
    1435.64    -248.23    1051.68 2
    3205.45     223.41    2797.19 3
    1266.32    -223.41      65.34 4
fin
```

Puente sobre el Rio Ebro * PILA - 11 * (Secc. en garganta pila)

Garganta de Pila



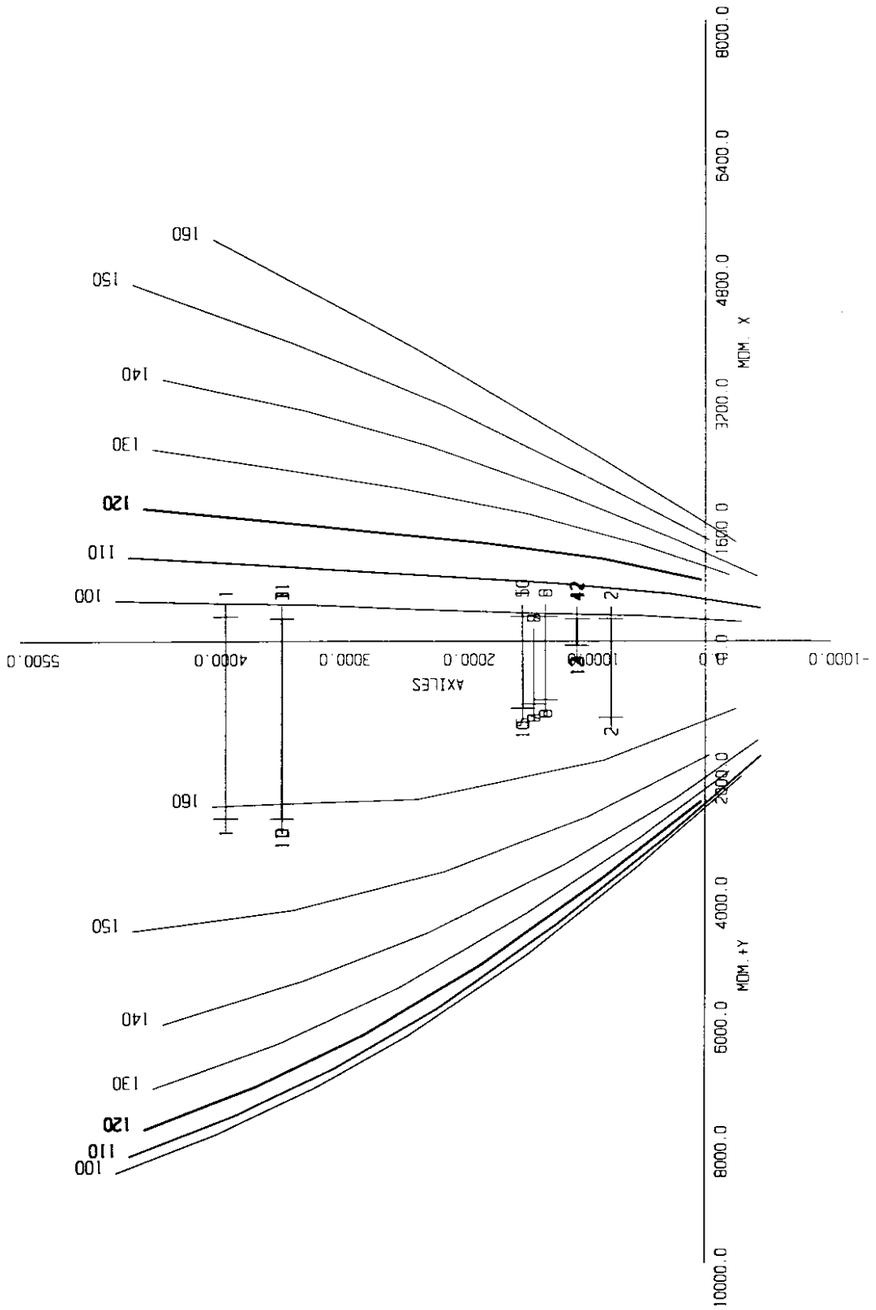
Puente sobre el Rio Ebro * PILA - 12 * (Secc. en garganta pila)

```
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.9000  1.5231 -0.6500  1.5231 -0.6500 -1.5231 12 4
-0.6500  1.2847  0.6000  1.2847  0.6000 -1.2847 10 4
 0.6000  0.9785  1.9201  0.9785  1.9201 -0.9785  8 4
tri
-1.9000  1.7126 -0.6500  1.5231 -1.9000  1.5231 4
-0.6500  1.5231  0.6000  1.2847 -0.6500  1.2847 4
 0.6000  1.2847  1.9201  0.9785  0.6000  0.9785 4
-1.9000 -1.7126 -0.6500 -1.5231 -1.9000 -1.5231 4
-0.6500 -1.5231  0.6000 -1.2847 -0.6500 -1.2847 4
 0.6000 -1.2847  1.9201 -0.9785  0.6000 -0.9785 4
ace
line
-1.8500  1.6555 -1.8500 -1.6555 16 0.000491
 1.8701  0.9395  1.8701 -0.9395  8 0.000491
pun
   -1.8500     1.6555   0.000491
   -1.6519     1.6283   0.000491
   -1.4539     1.6000   0.000491
   -1.2561     1.5704   0.000491
   -1.0584     1.5397   0.000491
   -0.8610     1.5078   0.000491
   -0.6638     1.4747   0.000491
   -0.4667     1.4404   0.000491
   -0.2699     1.4050   0.000491
   -0.0733     1.3683   0.000491
    0.1231     1.3305   0.000491
    0.3193     1.2915   0.000491
    0.5152     1.2513   0.000491
    0.7109     1.2100   0.000491
    0.9063     1.1674   0.000491
    1.1015     1.1237   0.000491
    1.2964     1.0788   0.000491
    1.4910     1.0328   0.000491
    1.6853     0.9856   0.000491
    1.8701     0.9395   0.000491
   -1.8500    -1.6555   0.000491
   -1.6519    -1.6283   0.000491
   -1.4539    -1.6000   0.000491
   -1.2561    -1.5704   0.000491
   -1.0584    -1.5397   0.000491
   -0.8610    -1.5078   0.000491
   -0.6638    -1.4747   0.000491
   -0.4667    -1.4404   0.000491
   -0.2699    -1.4050   0.000491
   -0.0733    -1.3683   0.000491
    0.1231    -1.3305   0.000491
    0.3193    -1.2915   0.000491
    0.5152    -1.2513   0.000491
    0.7109    -1.2100   0.000491
    0.9063    -1.1674   0.000491
    1.1015    -1.1237   0.000491
```

```
    1.2964    -1.0788   0.000491
    1.4910    -1.0328   0.000491
    1.6853    -0.9856   0.000491
    1.8701    -0.9395   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 5000. -500. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    3854.22    -320.44    2848.52 1
     754.75     288.40    1224.53 2
    3400.60    -288.40    2853.04 3
    1027.35     288.40      67.13 4
    1466.47    -320.44    1074.79 5
    1281.64     320.44     936.22 6
    1374.06       0.00    1005.50 7
    1374.06       0.00    1005.50 8
    1281.64     320.44     936.22 1
    1466.47    -320.44    1074.79 2
    3400.61    -288.40    2853.04 3
    1027.35     288.40      67.13 4
fin
```

Puente sobre el Rio Ebro * PILA - 12 * (Secc. en garganta pila)

Garganta de Pila



Listado de resultados

Puente sobre el Rio Ebro * PILA - 12 * (Secc. en garganta pila)

NUMERO DE ELEMENTOS	245	
NUMERO DE ELEMENTOS DE HORMIGON	180	
NUMERO DE ELEMENTOS DE ACERO	64	
NUMERO DE ELEMENTOS DE PRETENSADO	1	
MODULO ELASTICIDAD ACERO	21000000.	TN/M2
RESISTENCIA DEL HORMIGON	3000	TN/M2
RESISTENCIA DEL ACERO	5100.	TN/M2
RESISTENCIA DEL PRETENSADO	165700	TN/M2
TENSION DEL PRETENSADO	0.	TN/M2
MODULO DE ELASTICIDAD DEL PRETENSADO	[illegible]	TN/M2

AREA HORM.	10.542039	XCG	[illegible]
MOM INER. X	9.815711	MOM INER	[illegible]
AREA ACERO	0.031424	XCG	[illegible]
MOM INER. X	0.045203	MOM INER	[illegible]
AREA PRET	0.000000	XCG	[illegible]
MOM.INER. X	0.000000	MOM INER	[illegible]

ELEMENTOS DE HORMIGON

NUMERO

59	0.5375	0.1035	0.09029376
60	0.5375	0.3212	0.08029376
61	0.5375	-0.3212	0.08029376
62	0.5375	-0.9635	0.08029376
63	0.6625	0.7339	0.05073635
64	0.6625	0.2442	0.05073635
65	0.6625	-0.2442	0.05073637
66	0.6625	-0.7339	0.05073635
67	0.8475	0.7339	0.05073635
68	0.8475	0.2441	0.05073635
69	0.8475	-0.2442	0.05073637
70	0.8475	-0.7339	0.05073635
71	1.0125	0.7339	0.05073635
72	1.0125	0.2442	0.05073635
73	1.0125	-0.2442	0.05073637
74	1.0125	-0.7339	0.05073635
75	1.1775	0.7339	0.05073640
76	1.1775	0.2442	0.05073640
77	1.1775	-0.2442	0.05073640
78	1.1775	-0.7339	0.05073640
79	1.3424	0.7337	0.05073630
80	1.3426	0.2442	0.05073635
81	1.3426	-0.2442	0.05073635
82	1.3426	-0.7339	0.05073635
83	1.5076	0.7339	0.05073635
84	1.5076	0.2442	0.05073635
85	1.5076	-0.2442	0.05073637
86	1.5076	-0.7339	0.05073635
87	1.6726	0.7339	0.05073635
88	1.6726	0.2442	0.05073635
89	1.6726	-0.2442	0.05073637
90	1.6726	-0.7339	0.05073635
91	1.8376	0.7339	0.05073635
92	1.8376	0.2442	0.05073635
93	1.8376	-0.2442	0.05073637
94	1.8376	-0.7339	0.05073635
95	-1.7958	0.6816	0.01740834
96	-1.5875	1.5942	0.01491471
97	-1.7958	1.5942	0.01740834
98	-1.2750	1.5942	0.01491471
99	-1.5875	1.5942	0.01491471
100	-1.7958	1.5863	0.01740836
101	-0.9625	1.5468	0.01480468
102	-1.2750	1.5468	0.01480469
103	-1.5875	1.5466	0.01480468
104	-1.7958	1.5389	0.01740834
105	-0.5458	1.4834	0.00931250
106	-0.3375	1.4237	0.01862500
107	-0.5458	1.4238	0.00931250
108	-0.0250	1.3741	0.01862500
109	-0.3375	1.3741	0.01862500
110	-0.5458	1.3642	0.00931250
111	0.2875	1.3145	0.01862500
112	-0.0250	1.3145	0.01862500
113	-0.3375	1.3145	0.01862500
114	-0.5458	1.3046	0.00931250
115	0.7100	1.2337	0.01263171
116	0.9300	1.1699	0.02526341

143	0.7100	1.1971	0.01263171
144	1.2601	1.1131	0.02586341
145	0.9330	1.0329	0.02526342
146	0.7100	1.0100	0.01263171
147	1.5991	1.0139	0.02586341
148	1.2601	1.0160	0.02526342
149	0.9330	1.0160	0.02526342
150	0.7100	1.0140	0.01263171
151	-1.7958	-1.0811	0.00740234
152	-1.5975	-1.0415	0.01480468
153	-1.7958	-1.0336	0.00740234
154	-1.2759	-1.0342	0.01480471
155	-1.5976	-1.0342	0.01480471
156	-1.7958	-1.0363	0.00740234
157	-1.5975	-1.0468	0.01480468
158	-1.7958	-1.0436	0.00740234
159	-1.5975	-1.0468	0.01480468
160	-1.7958	-1.0393	0.00740234
161	-0.5429	-1.0434	0.00931250
162	-0.2775	-1.0481	0.01862500
163	-0.5429	-1.0434	0.00931250
164	-0.2775	-1.0481	0.01862500
165	-1.5975	-1.0468	0.01862500
166	-1.7958	-1.0393	0.00740234
167	-1.5975	-1.0468	0.01862500
168	-1.7958	-1.0393	0.00740234
169	-1.5975	-1.0468	0.01862500
170	-1.7958	-1.0393	0.00740234
171	-1.5975	-1.0468	0.01862500
172	-1.7958	-1.0393	0.00740234
173	-1.5975	-1.0468	0.01862500
174	-1.7958	-1.0393	0.00740234
175	-1.5975	-1.0468	0.01862500
176	-1.7958	-1.0393	0.00740234
177	-1.5975	-1.0468	0.01862500
178	-1.7958	-1.0393	0.00740234
179	-1.5975	-1.0468	0.01862500
180	-1.7958	-1.0393	0.00740234
181	-1.5975	-1.0468	0.01862500
182	-1.7958	-1.0393	0.00740234
183	-1.5975	-1.0468	0.01862500
184	-1.7958	-1.0393	0.00740234
185	-1.5975	-1.0468	0.01862500
186	-1.7958	-1.0393	0.00740234
187	-1.5975	-1.0468	0.01862500
188	-1.7958	-1.0393	0.00740234
189	-1.5975	-1.0468	0.01862500
190	-1.7958	-1.0393	0.00740234
191	-1.5975	-1.0468	0.01862500
192	-1.7958	-1.0393	0.00740234
193	-1.8500	-0.9937	0.00049100
194	-1.8500	-1.0140	0.00049100
195	-1.8500	-1.0340	0.00049100
196	-1.8500	-1.0665	0.00049100
197	1.8701	0.9395	0.00049100
198	1.8701	0.8711	0.00049100
199	1.8701	0.4026	0.00049100
200	1.8701	0.1342	0.00049100
201	1.8701	-0.1342	0.00049100
202	1.8701	-0.4026	0.00049100
203	1.8701	-0.8711	0.00049100
204	1.8701	-0.9395	0.00049100
205	-1.8500	1.0555	0.00049100
206	-1.8500	1.0293	0.00049100
207	-1.8500	1.0031	0.00049100
208	-1.8500	0.9770	0.00049100
209	-1.8554	0.9387	0.00049100
210	-0.8610	0.8070	0.00049100
211	-0.4636	0.4047	0.00049100
212	-0.4667	0.4004	0.00049100
213	-0.2699	0.2031	0.00049100
214	-0.0733	0.1233	0.00049100
215	0.1231	0.0435	0.00049100
216	0.3193	-0.1558	0.00049100
217	0.5152	-0.2513	0.00049100
218	0.7109	-0.3311	0.00049100
219	0.9063	-0.4109	0.00049100
220	1.1013	-0.4907	0.00049100
221	1.2964	-0.5705	0.00049100
222	1.4910	-0.6504	0.00049100
223	1.6853	-0.7302	0.00049100
224	1.8701	-0.8100	0.00049100
225	-1.8500	-0.8898	0.00049100
226	-1.8500	-0.9696	0.00049100
227	-1.8500	-1.0494	0.00049100
228	-1.8500	-1.0711	0.00049100
229	-1.8500	-1.0337	0.00049100
230	-0.8610	-1.0773	0.00049100
231	-0.4636	-1.0747	0.00049100
232	-0.4667	-1.0404	0.00049100
233	-0.2699	-1.0051	0.00049100
234	-0.0733	-1.0683	0.00049100
235	0.1231	-1.0305	0.00049100
236	0.3193	-1.0915	0.00049100
237	0.5152	-1.0513	0.00049100
238	0.7109	-1.0100	0.00049100
239	0.9063	-0.9674	0.00049100
240	1.1015	-0.9237	0.00049100
241	1.2964	-0.8788	0.00049100
242	1.4910	-0.8329	0.00049100
243	1.6853	-0.7856	0.00049100
244	1.8701	-0.7395	0.00049100

ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
181	-1.8500	1.6555	0.00049100
182	-1.8500	1.4348	0.00049100
183	-1.8500	1.2140	0.00049100
184	-1.8500	0.9932	0.00049100
185	-1.8500	0.7726	0.00049100
186	-1.8500	0.5518	0.00049100
187	-1.8500	0.3311	0.00049100
188	-1.8500	0.1104	0.00049100
189	-1.8500	-0.1104	0.00049100
190	-1.8500	-0.3311	0.00049100
191	-1.8500	-0.5518	0.00049100
192	-1.8500	-0.7726	0.00049100

ELEMENTOS DE PRETENSADO

NUMERO	X	Y	AREA

RESULTADOS

ALFA	N	MA	M*
90.00	-1320.810	0.000	624.670
90.00	-1256.457	0.000	608.181
90.00	-1200.000	0.000	593.137
90.00	-1150.000	0.000	579.412
90.00	-1331.080	0.000	566.894
90.00	-1.2 5.2	0.0	555.5
90.00	-1	0.0	545.1
10.00	-1	0.0	535.7
90.00	8491.585	0.000	527.1
70.00	3863.348	0.000	519.3
90.00	-1	0.0	512.1
90.00	4	0.0	505.5
50.00	1	0.0	499.4
90.00	1	0.0	493.8
90.00	1	0.0	488.6
90.00	1	0.0	483.8
90.00	1	0.0	479.3
90.00	1	0.0	475.1
90.00	1	0.0	471.2
90.00	1	0.0	467.5
90.00	1	0.0	464.0
90.00	1	0.0	460.8
90.00	1	0.0	457.7
90.00	1	0.0	454.8
90.00	1	0.0	452.1
90.00	1	0.0	449.5
90.00	1	0.0	447.1
90.00	1	0.0	444.8
90.00	1	0.0	442.6
90.00	1	0.0	440.5
90.00	1	0.0	438.5
90.00	1	0.0	436.6
90.00	1	0.0	434.8
90.00	1	0.0	433.1
90.00	1	0.0	431.4
90.00	1	0.0	429.8
90.00	1	0.0	428.3
90.00	1	0.0	426.8
90.00	1	0.0	425.4
90.00	1	0.0	424.0
90.00	1	0.0	422.7
90.00	1	0.0	421.4
90.00	1	0.0	420.2
90.00	1	0.0	419.0
90.00	1	0.0	417.8
90.00	1	0.0	416.7
90.00	1	0.0	415.6
90.00	1	0.0	414.5
90.00	1	0.0	413.5
90.00	1	0.0	412.5
90.00	1	0.0	411.5
90.00	1	0.0	410.6
90.00	1	0.0	409.7
90.00	1	0.0	408.8
90.00	1	0.0	407.9
90.00	1	0.0	407.0
90.00	1	0.0	406.2
90.00	1	0.0	405.4
90.00	1	0.0	404.6
90.00	1	0.0	403.8
90.00	1	0.0	403.1
90.00	1	0.0	402.3
90.00	1	0.0	401.6
90.00	1	0.0	400.9
90.00	1	0.0	400.2
90.00	1	0.0	399.5
90.00	1	0.0	398.8
90.00	1	0.0	398.2
90.00	1	0.0	397.5
90.00	1	0.0	396.9
90.00	1	0.0	396.3
90.00	1	0.0	395.7
90.00	1	0.0	395.1
90.00	1	0.0	394.5
90.00	1	0.0	394.0
90.00	1	0.0	393.4
90.00	1	0.0	392.9
90.00	1	0.0	392.4
90.00	1	0.0	391.8
90.00	1	0.0	391.3
90.00	1	0.0	390.8
90.00	1	0.0	390.4
90.00	1	0.0	389.9
90.00	1	0.0	389.4
90.00	1	0.0	389.0
90.00	1	0.0	388.5
90.00	1	0.0	388.1
90.00	1	0.0	387.7
90.00	1	0.0	387.3
90.00	1	0.0	386.9
90.00	1	0.0	386.5
90.00	1	0.0	386.1
90.00	1	0.0	385.7
90.00	1	0.0	385.3
90.00	1	0.0	385.0
90.00	1	0.0	384.6
90.00	1	0.0	384.3
90.00	1	0.0	383.9
90.00	1	0.0	383.6
90.00	1	0.0	383.3
90.00	1	0.0	382.9
90.00	1	0.0	382.6
90.00	1	0.0	382.3
90.00	1	0.0	382.0
90.00	1	0.0	381.7
90.00	1	0.0	381.4
90.00	1	0.0	381.1
90.00	1	0.0	380.8
90.00	1	0.0	380.5
90.00	1	0.0	380.2
90.00	1	0.0	380.0
90.00	1	0.0	379.7
90.00	1	0.0	379.4
90.00	1	0.0	379.2
90.00	1	0.0	378.9
90.00	1	0.0	378.7
90.00	1	0.0	378.4
90.00	1	0.0	378.2
90.00	1	0.0	377.9
90.00	1	0.0	377.7
90.00	1	0.0	377.5
90.00	1	0.0	377.2
90.00	1	0.0	377.0
90.00	1	0.0	376.8
90.00	1	0.0	376.6
90.00	1	0.0	376.3
90.00	1	0.0	376.1
90.00	1	0.0	375.9
90.00	1	0.0	375.7
90.00	1	0.0

110.00	-1515.121	51.797	931.288	130.00	1421.420	1633.445	[illegible]
110.00	-1700.851	46.279	828.814	130.00	2463.004	1968.340	5572.316
110.00	-1485.409	37.311	439.443	130.00	3488.660	2218.143	6471.210
110.00	-1111.433	127.405	481.917	130.00	4436.107	2471.548	7191.481
110.00	-777.145	244.643	1051.952	130.00	5477.709	2699.048	7731.494
110.00	-445.749	485.334	1839.948	130.00	6573.787	2937.957	8054.887
110.00	880.916	610.581	3100.940	130.00	7603.575	3102.120	8153.276
110.00	1184.324	745.716	4539.191	130.00	8505.608	3362.392	8025.879
110.00	2151.789	841.727	5086.729	130.00	9648.796	3512.504	7091.560
110.00	2174.188	918.171	6450.729	130.00	11056.897	3581.806	7206.159
110.00	3764.734	1004.630	7631.640	130.00	12101.979	3533.561	6845.004
110.00	4651.789	1084.387	8381.425	130.00	13083.085	3421.626	6019.895
110.00	5484.198	1164.911	8766.003	130.00	13972.849	3285.312	5011.903
110.00	6218.920	1253.407	9130.741	130.00	14782.288	3141.304	4163.668
110.00	7279.182	1371.164	9809.476	130.00	15526.196	2989.128	3470.181
110.00	8016.778	1471.813	9281.164	130.00	16171.383	2823.[illegible]	2971.356
110.00	8714.247	1626.247	9101.122	130.00	16737.814	1599.448	2693.153
110.00	9460.488	1783.501	8757.975	140.00	-1046.849	-4.631	144.401
110.00	10111.156	1937.220	8846.717	140.00	-1311.156	77.209	184.386
110.00	10711.703	1998.703	7823.294	140.00	-1[illegible]	[illegible]	[illegible]
110.00	11131.880	2084.850	6955.036	140.00	-1[illegible]	178.5[illegible]	396.[illegible]
110.00	11486.749	2186.749	6426.499	140.00	-[illegible]	228.[illegible]	535.[illegible]
110.00	11776.414	2276.414	6191.365	140.00	-[illegible]	271.[illegible]	677.[illegible]
110.00	11916.231	2416.231	6791.194	140.00	[illegible]	311.[illegible]	[illegible]
110.00	12122.634	2522.634	7662.044	140.00	[illegible]	337.[illegible]	[illegible]
[illegible]	[illegible]	86.704	611.621	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	50.838	296.540	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	212.759	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	351.[illegible]	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	287.[illegible]	907.[illegible]	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	507.[illegible]	1211.[illegible]	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	784.[illegible]	1554.[illegible]	140.00	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1004.[illegible]	3288.[illegible]	140.00	[illegible]	[illegible]	[illegible]
120.00	-1[illegible]	1[illegible]	5155.[illegible]	140.00	[illegible]	[illegible]	[illegible]
120.00	-1[illegible]	1416.813	6387.892	140.00	[illegible]	[illegible]	[illegible]
120.00	-1[illegible]	1503.432	7185.667	140.00	12430.[illegible]	[illegible]	59.[illegible]
120.00	-[illegible]	1709.731	7853.208	140.00	13504.[illegible]	[illegible]	[illegible]
120.00	-[illegible]	1916.208	8737.789	140.00	14517.[illegible]	[illegible]	[illegible]
120.00	-[illegible]	2018.731	8714.266	140.00	15497.571	[illegible]	[illegible]
120.00	-[illegible]	2169.209	8866.193	140.00	15870.179	[illegible]	[illegible]
120.00	-[illegible]	2304.400	8828.045	140.00	16498.934	[illegible]	[illegible]
120.00	-[illegible]	2427.359	8590.571	140.00	17012.758	[illegible]	[illegible]
120.00	-1[illegible]	2524.394	8159.621	150.00	-1[illegible]	23.581	122.384
120.00	-1[illegible]	2598.799	7569.547	150.00	-1338.166	55.080	173.096
120.00	-1[illegible]	2605.711	6902.269	150.00	-1292.269	101.982	239.033
120.00	-1[illegible]	2537.843	6172.535	150.00	-1230.763	166.831	317.663
120.00	-1[illegible]	2398.162	5435.158	150.00	-1151.181	250.728	405.244
120.00	-1[illegible]	2197.509	4604.431	150.00	-1005.842	398.980	582.629
120.00	-1[illegible]	1955.249	3993.512	150.00	-631.421	750.666	1092.469
120.00	-1[illegible]	1690.673	3338.595	150.00	-35.679	1295.242	1923.374
130.00	-1329.460	56.335	199.393	150.00	938.829	2106.989	2818.980
130.00	-1290.929	88.115	266.706	150.00	2093.690	3016.381	3704.597
130.00	-1241.414	127.373	349.979	150.00	3311.873	3824.642	4327.304
130.00	-1179.512	174.421	450.261	150.00	4601.294	4592.608	4661.269
130.00	-1017.788	296.686	733.014	150.00	5929.562	5180.401	4922.602
130.00	-712.250	512.690	1253.381	150.00	7259.686	5590.842	5064.705
130.00	-194.558	853.474	2086.033	150.00	8554.730	5744.334	5211.554
130.00	519.058	1241.222	3155.280	150.00	9794.774	5733.165	5223.453

150.00	10970.018	5605.498	5038.562
150.00	12061.178	5306.599	4821.022
150.00	13080.332	4901.910	4522.237
150.00	14026.890	4452.196	4109.153
150.00	14847.906	3992.965	3686.424
150.00	15587.659	3491.769	3259.000
150.00	16255.593	2976.658	2794.052
150.00	16845.063	2481.139	2317.325
150.00	17324.000	2057.827	1910.510
160.00	-1393.034	0.519	79.718
160.00	-1373.192	20.733	113.460
160.00	-1328.433	70.264	169.840
160.00	-1258.877	152.313	230.917
160.00	-1160.769	272.225	285.282
160.00	-1041.049	420.654	334.305
160.00	-815.160	683.202	505.967
160.00	-246.805	1271.791	1084.488
160.00	808.545	2323.580	1907.190
160.00	2311.210	3740.050	2541.830
160.00	3961.065	5173.859	2654.491
160.00	5256.543	6049.255	2615.320
160.00	6424.120	6489.213	2959.301
160.00	7607.094	6732.292	3202.826
160.00	8875.672	6767.809	3367.128
160.00	10166.146	6582.511	3530.479
160.00	11279.047	6271.802	3650.907
160.00	12380.806	5794.067	3620.129
160.00	13504.898	5186.944	3382.052
160.00	14443.436	4616.211	3130.995
160.00	15247.828	4043.312	2870.865
160.00	16023.244	3392.769	2490.152
160.00	16705.781	2774.465	2049.681
160.00	17246.693	2261.944	1680.179
160.00	17617.729	1879.651	1386.768
170.00	-1393.586	0.000	78.592
170.00	-1393.586	0.000	78.592
170.00	-1356.644	51.777	72.052
170.00	-1261.673	177.971	88.126
170.00	-1150.385	325.248	101.927
170.00	-1020.099	495.362	118.235
170.00	-833.252	740.524	127.991
170.00	-298.779	1438.272	179.800
170.00	797.391	2631.802	598.298
170.00	3217.075	5046.660	653.189
170.00	4589.701	6340.662	475.150
170.00	5370.892	6648.752	1126.101
170.00	6568.205	7014.583	1421.053
170.00	7923.253	7296.428	1370.523
170.00	9034.239	7337.875	1627.609
170.00	10130.573	7144.579	1927.313
170.00	11443.033	6636.738	2170.921
170.00	12642.704	6071.306	2094.955
170.00	13761.941	5360.743	2148.812
170.00	14686.810	4696.015	2169.882
170.00	15641.744	3862.592	1920.921
170.00	16464.984	3089.167	1583.222
170.00	17103.430	2465.693	1292.555
170.00	17516.250	2026.310	1050.895
170.00	17788.279	1724.723	874.698
180.00	-1391.800	2.953	75.602
180.00	-1369.748	38.478	45.140
180.00	-1321.625	112.510	-4.258
180.00	-1246.833	222.638	-56.854
180.00	-1142.741	369.556	-100.967
180.00	-951.183	639.758	-195.048
180.00	-637.378	1083.677	-356.087
180.00	9.269	1903.918	-697.180
180.00	1694.234	3787.104	-1470.030
180.00	3107.264	5193.715	-1416.605
180.00	4055.813	5973.288	-676.138
180.00	4886.257	6438.208	-621.563
180.00	6497.954	7019.735	-494.479
180.00	7575.140	7336.044	-269.475
180.00	8398.400	7423.496	41.308
180.00	9870.630	7087.594	248.270
180.00	11101.147	6725.955	186.992
180.00	12203.877	6269.414	471.688
180.00	13279.359	5649.255	789.877
180.00	14497.095	4695.130	785.000
180.00	15522.146	3816.646	705.276
180.00	16326.887	3081.293	598.254
180.00	16812.801	2588.823	485.512
180.00	17182.771	2213.094	399.833
180.00	17471.332	1919.446	333.126

PILAS 9 a 10

Esfuerzos

Esfuerzos de la barra 394 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	7752.34	-2417.05	22484.09
512 FUER X MIN envolvente (ELU) (tota	2562.09	2175.35	13107.78
513 FUER Y MAX envolvente (ELU) (tota	6790.83	-2175.35	22891.28
514 FUER Y MIN envolvente (ELU) (tota	3100.07	2175.35	2558.97
515 FUER Z MAX envolvente (ELU) (tota	3318.57	-2340.86	9249.66
516 FUER Z MIN envolvente (ELU) (tota	3311.74	2340.86	9227.70
517 MOME X MAX envolvente (ELU) (tota	3318.94	-2417.05	9250.71
518 MOME X MIN envolvente (ELU) (tota	3311.38	2417.05	9226.65
519 MOME Y MAX envolvente (ELU) (tota	3311.38	2417.05	9226.65
520 MOME Y MIN envolvente (ELU) (tota	3318.94	-2417.05	9250.71
521 MOME Z MAX envolvente (ELU) (tota	6790.84	-2175.35	22891.29
522 MOME Z MIN envolvente (ELU) (tota	3100.06	2175.35	2558.96

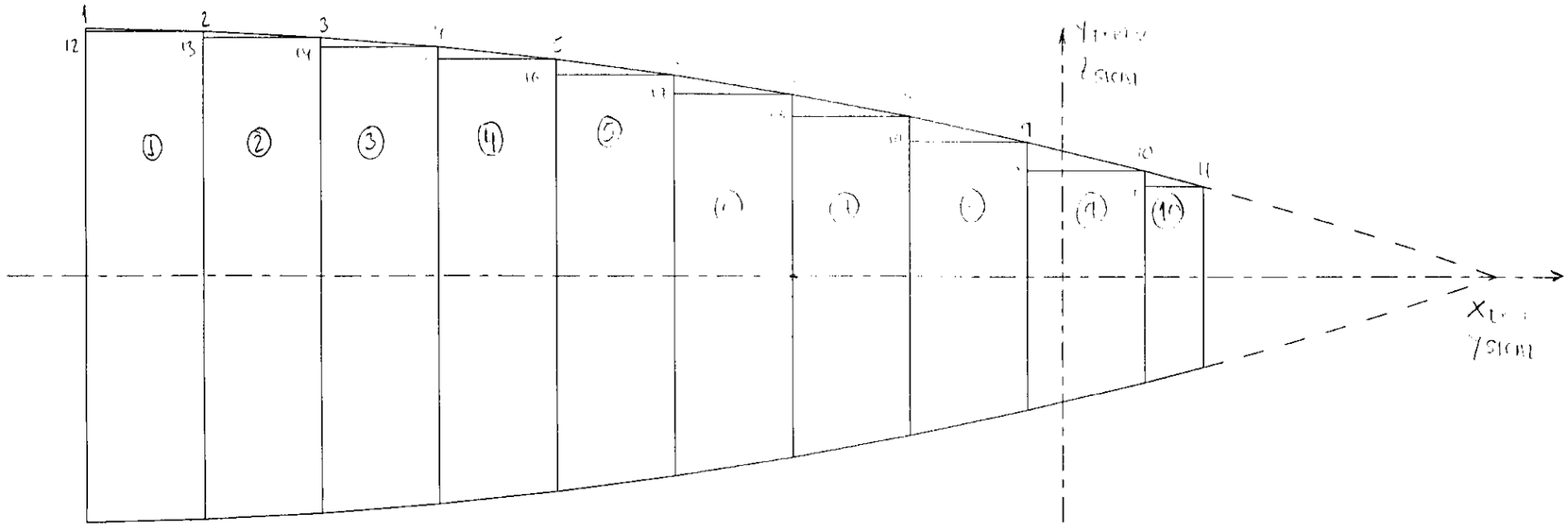
Esfuerzos de la barra 397 extremo dorsal

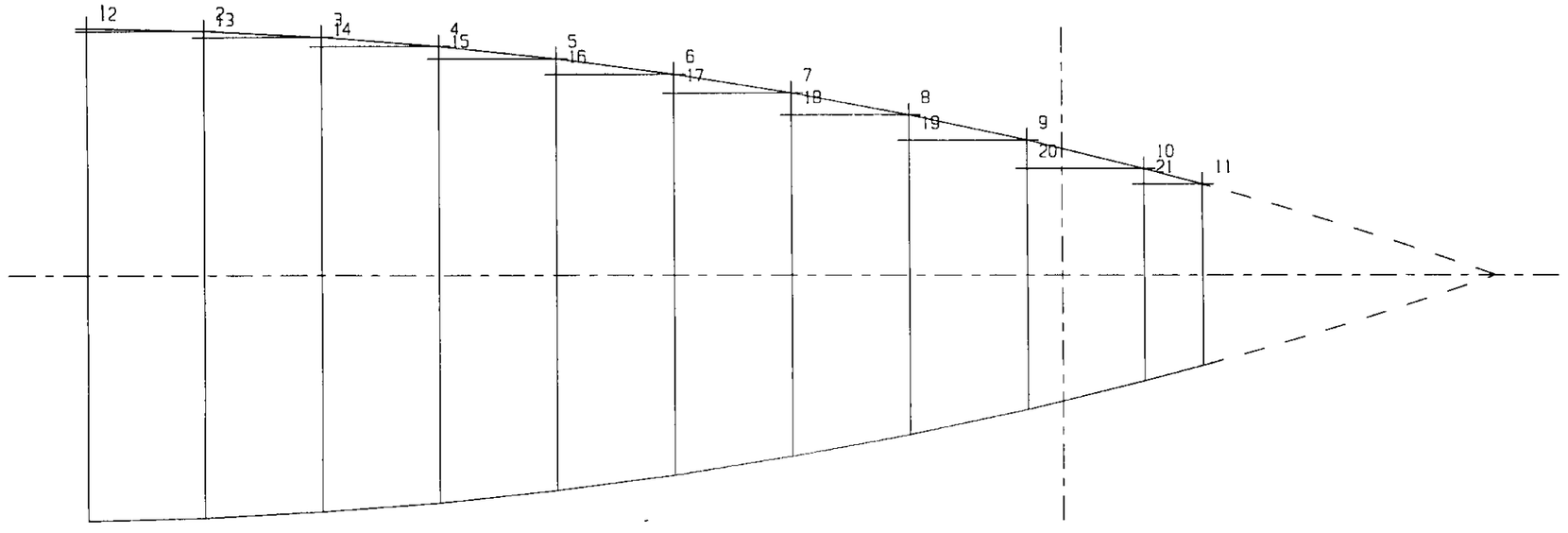
coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
511 FUER X MAX envolvente (ELU) (tota	6763.76	-547.86	4838.75
512 FUER X MIN envolvente (ELU) (tota	2028.26	493.08	2810.25
513 FUER Y MAX envolvente (ELU) (tota	5901.11	-493.08	4945.91
514 FUER Y MIN envolvente (ELU) (tota	2566.22	493.08	460.94
515 FUER Z MAX envolvente (ELU) (tota	2725.79	-547.86	1942.32
516 FUER Z MIN envolvente (ELU) (tota	2718.22	547.86	1936.86
517 MOME X MAX envolvente (ELU) (tota	2722.01	0.00	1939.59
518 MOME X MIN envolvente (ELU) (tota	2722.01	0.00	1939.59
519 MOME Y MAX envolvente (ELU) (tota	2718.22	547.86	1936.86
520 MOME Y MIN envolvente (ELU) (tota	2725.79	-547.86	1942.32
521 MOME Z MAX envolvente (ELU) (tota	5901.12	-493.08	4945.91
522 MOME Z MIN envolvente (ELU) (tota	2566.22	493.08	460.94

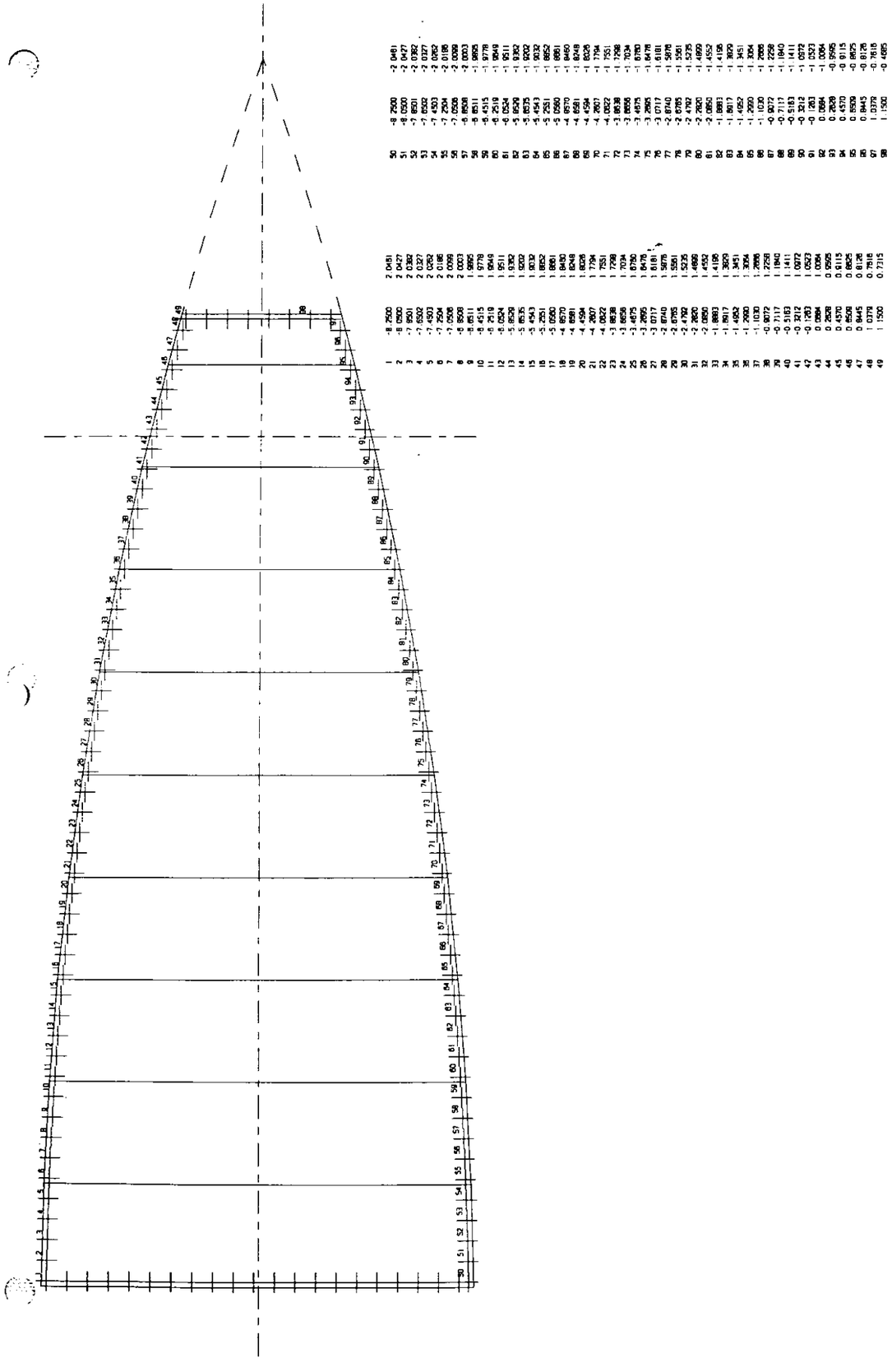
Seccion por pie de pila

Comprobacion a flexion esviada





1	-8.3000	2.0967	12	-8.3000	2.0706
2	-7.3000	2.0706	13	-7.3000	2.0182
3	-6.3000	2.0182	14	-6.3000	1.9395
4	-5.3000	1.9395	15	-5.3000	1.8344
5	-4.3000	1.8344	16	-4.3000	1.7025
6	-3.3000	1.7025	17	-3.3000	1.5437
7	-2.3000	1.5437	18	-2.3000	1.3575
8	-1.3000	1.3575	19	-1.3000	1.1437
9	-0.3000	1.1437	20	-0.3000	0.9016
10	0.7000	0.9016	21	0.7000	0.7698
11	1.2000	0.7698			

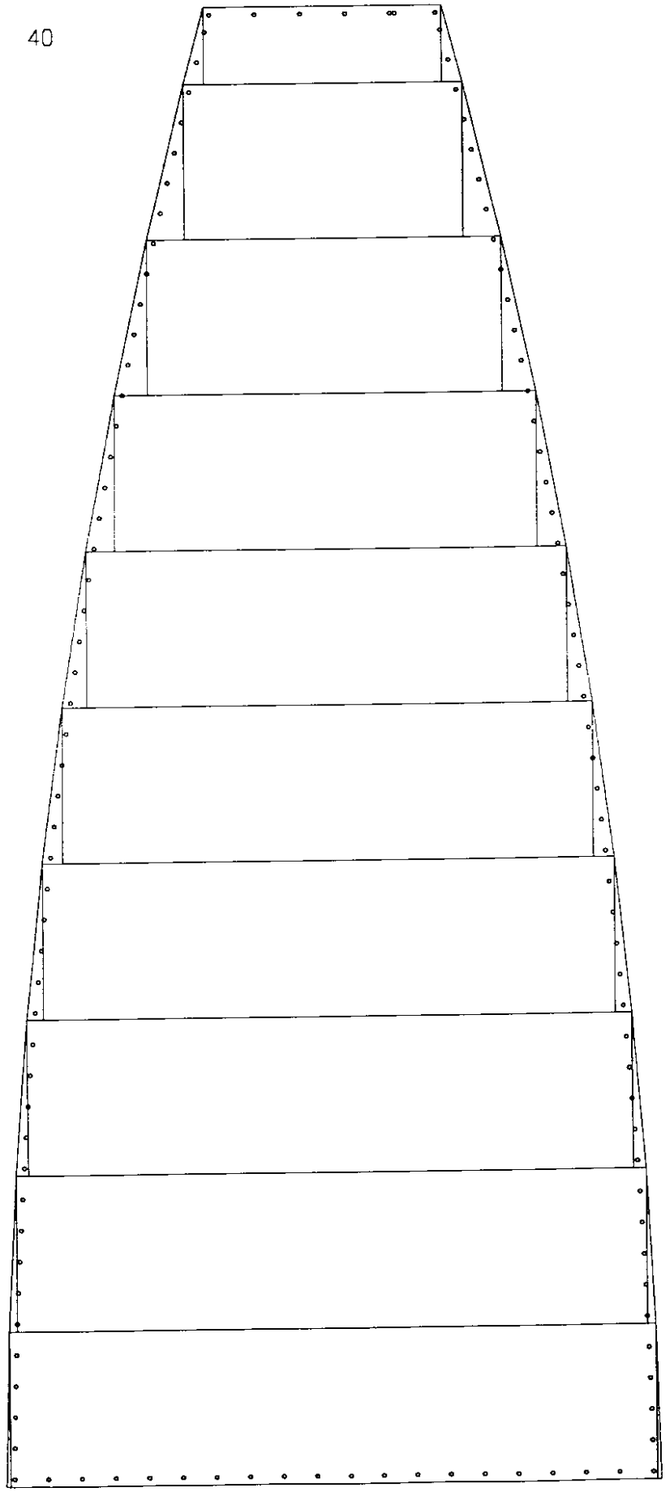


```
Puente sobre el Rio Ebro * PILA - 9 * (Secc. a pie de pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-8.3000  2.0706 -7.3000  2.0706 -7.3000 -2.0706 16 4
-7.3000  2.0182 -6.3000  2.0182 -6.3000 -2.0182 15 4
-6.3000  1.9395 -5.3000  1.9395 -5.3000 -1.9395 14 4
-5.3000  1.8344 -4.3000  1.8344 -4.3000 -1.8344 13 4
-4.3000  1.7025 -3.3000  1.7025 -3.3000 -1.7025 12 4
-3.3000  1.5437 -2.3000  1.5437 -2.3000 -1.5437 11 4
-2.3000  1.3575 -1.3000  1.3575 -1.3000 -1.3575 10 4
-1.3000  1.1437 -0.3000  1.1437 -0.3000 -1.1437  9 4
-0.3000  0.9016  0.7000  0.9016  0.7000 -0.9016  8 4
 0.7000  0.7698  1.2000  0.7698  1.2000 -0.7698  7 2
tri
-8.3000  2.0967 -7.3000  2.0706 -8.3000  2.0706 4
-7.3000  2.0706 -6.3000  2.0182 -7.3000  2.0182 4
-6.3000  2.0182 -5.3000  1.9395 -6.3000  1.9395 4
-5.3000  1.9395 -4.3000  1.8344 -5.3000  1.8344 4
-4.3000  1.8344 -3.3000  1.7025 -4.3000  1.7025 4
-3.3000  1.7025 -2.3000  1.5437 -3.3000  1.5437 4
-2.3000  1.5437 -1.3000  1.3575 -2.3000  1.3575 4
-1.3000  1.3575 -0.3000  1.1437 -1.3000  1.1437 4
-0.3000  1.1437  0.7000  0.9016 -0.3000  0.9016 4
 0.7000  0.9016  1.2000  0.7698  0.7000  0.7698 4
-8.3000 -2.0967 -7.3000 -2.0706 -8.3000 -2.0706 4
-7.3000 -2.0706 -6.3000 -2.0182 -7.3000 -2.0182 4
-6.3000 -2.0182 -5.3000 -1.9395 -6.3000 -1.9395 4
-5.3000 -1.9395 -4.3000 -1.8344 -5.3000 -1.8344 4
-4.3000 -1.8344 -3.3000 -1.7025 -4.3000 -1.7025 4
-3.3000 -1.7025 -2.3000 -1.5437 -3.3000 -1.5437 4
-2.3000 -1.5437 -1.3000 -1.3575 -2.3000 -1.3575 4
-1.3000 -1.3575 -0.3000 -1.1437 -1.3000 -1.1437 4
-0.3000 -1.1437  0.7000 -0.9016 -0.3000 -0.9016 4
 0.7000 -0.9016  1.2000 -0.7698  0.7000 -0.7698 4
ace
line
-8.2500  2.0461  -8.2500 -2.0461 20 0.000491
 1.1500  0.7315   1.1500 -0.7315  6 0.000491
pun
    -8.2500     2.0461   0.000491
    -8.0500     2.0427   0.000491
    -7.8501     2.0382   0.000491
    -7.6502     2.0327   0.000491
    -7.4503     2.0262   0.000491
    -7.2504     2.0186   0.000491
    -7.0506     2.0099   0.000491
    -6.8508     2.0003   0.000491
    -6.6511     1.9895   0.000491
    -6.4515     1.9778   0.000491
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    -6.0524     1.9511   0.000491
    -5.8529     1.9362   0.000491
    -5.6535     1.9202   0.000491
    -5.4543     1.9032   0.000491
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pre
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res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Pie de Pila
a4 a4 1 10000. 1000. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
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    2562.09    2175.35   13107.78 2
    6790.83   -2175.35   22891.28 3
    3100.07    2175.35    2558.97 4
    3318.57   -2340.86    9249.66 5
    3311.74    2340.86    9227.70 6
    3318.94   -2417.05    9250.71 7
    3311.38    2417.05    9226.65 8
    3311.38    2417.05    9226.65 1
    3318.94   -2417.05    9250.71 2
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    3100.06    2175.35    2558.96 4
fin
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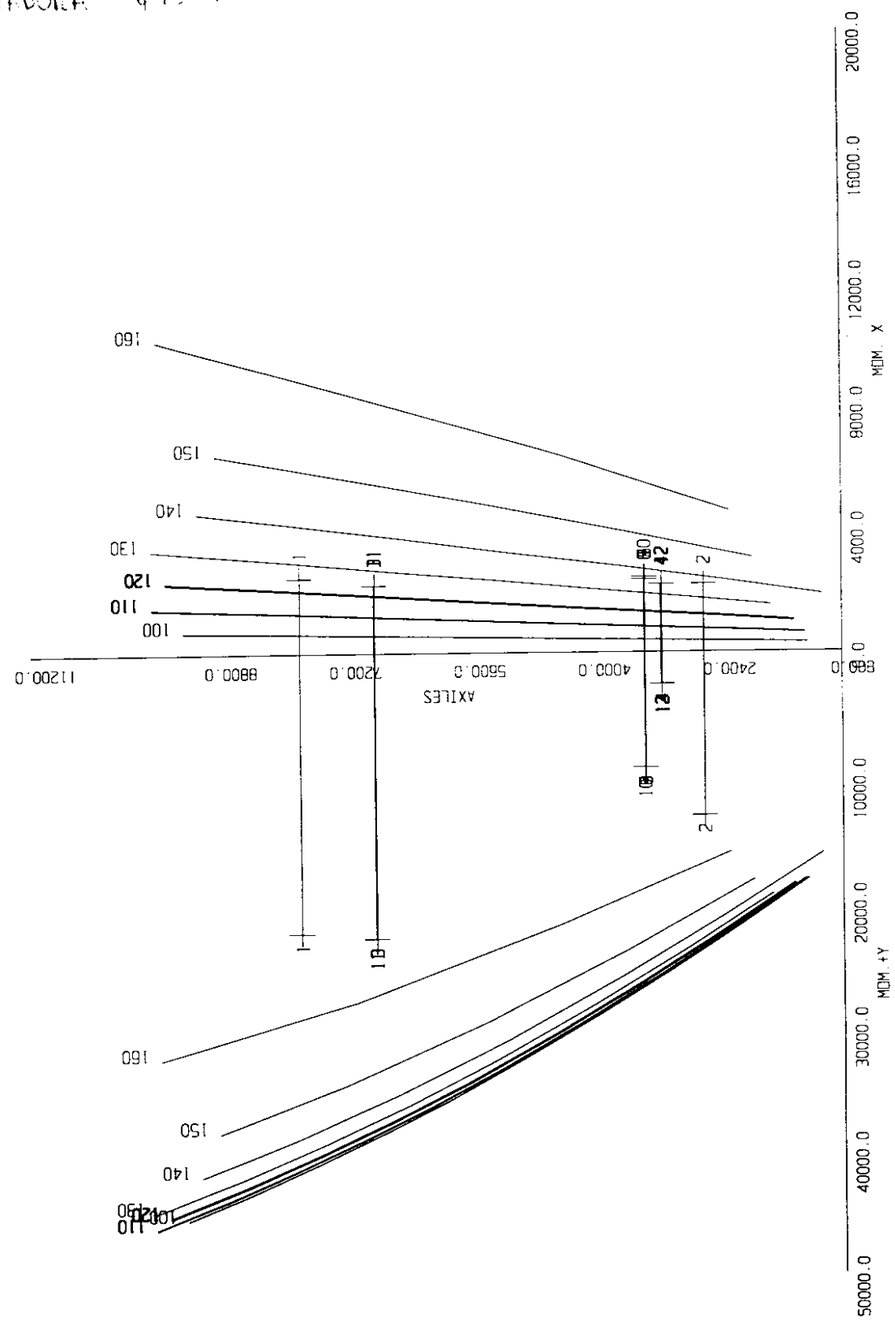
Puente sobre el Rio Ebro * PILA - 9 * (Secc. a pie de pila)

escala = 1/ 40

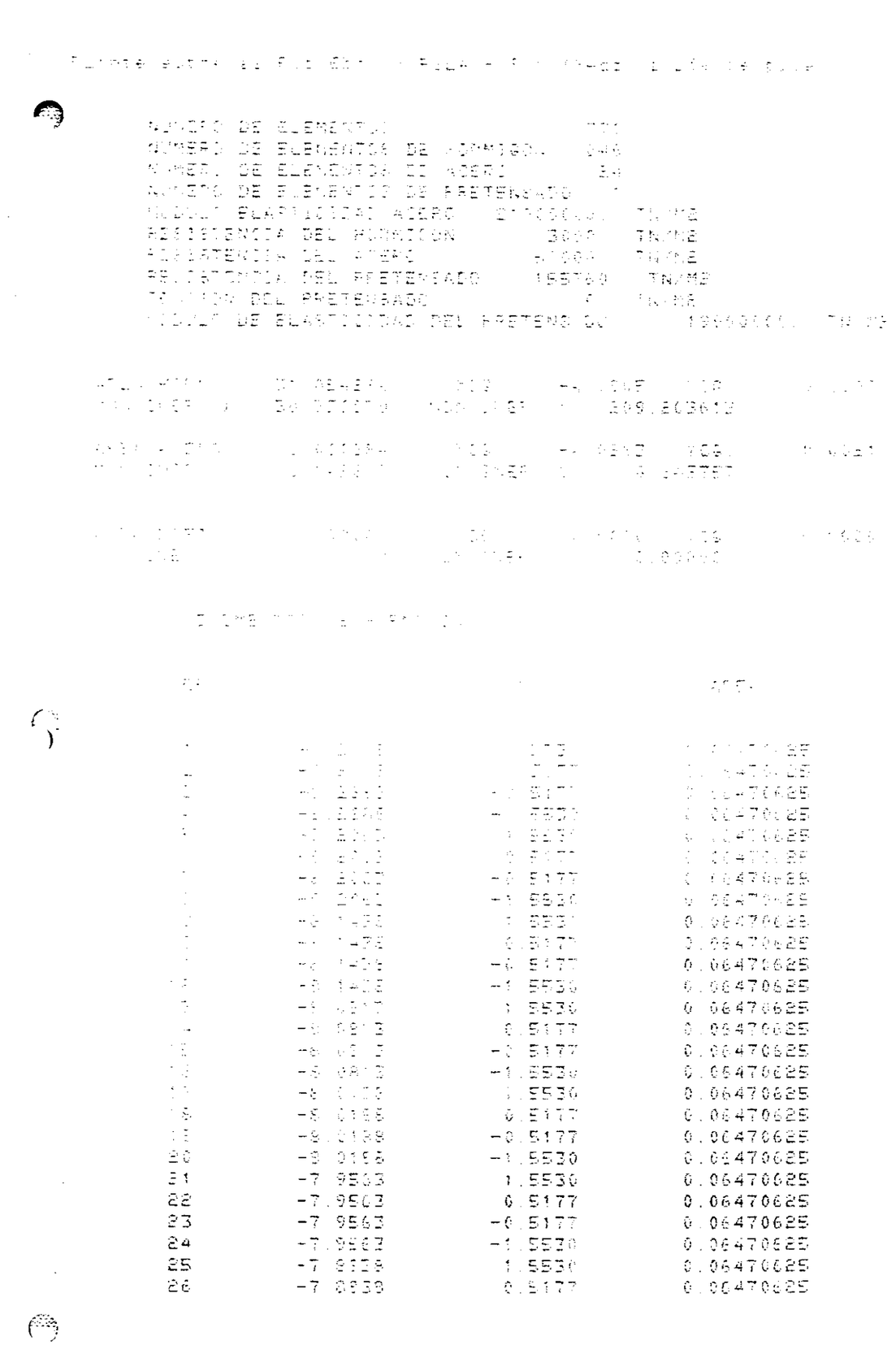


Puente sobre el Rio Ebro * PILA - 9 * (Secc. a pie de pila)

Pie de Pilo



Listado de resultados



141	-5.7796	1.4546	0.06926820
142	-5.7796	0.4849	0.06926820
143	-5.7796	-0.4849	0.06926820
144	-5.7796	-1.4546	0.06926820
145	-5.8496	1.4546	0.06926735
146	-5.8496	0.4849	0.06926735
147	-5.8496	-0.4849	0.06926745
148	-5.8496	-1.4546	0.06926745
149	-5.9196	1.4546	0.06926820
150	-5.9196	0.4849	0.06926820
151	-5.9196	-0.4849	0.06926820
152	-5.9196	-1.4546	0.06926820
153	-5.9896	1.4546	0.06926735
154	-5.9896	0.4849	0.06926735
155	-5.9896	-0.4849	0.06926745
156	-5.9896	-1.4546	0.06926745
157	-6.0596	1.4546	0.06926820
158	-6.0596	0.4849	0.06926820
159	-6.0596	-0.4849	0.06926820
160	-6.0596	-1.4546	0.06926820
161	-6.1296	1.4546	0.06926735
162	-6.1296	0.4849	0.06926735
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164	-6.1296	-1.4546	0.06926745
165	-6.1996	1.4546	0.06926820
166	-6.1996	0.4849	0.06926820
167	-6.1996	-0.4849	0.06926820
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183	-6.4796	-0.4849	0.06926820
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187	-6.5496	-0.4849	0.06926745
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189	-6.6196	1.4546	0.06926820
190	-6.6196	0.4849	0.06926820
191	-6.6196	-0.4849	0.06926820
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193	-6.6896	1.4546	0.06926735
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196	-6.6896	-1.4546	0.06926745
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473	-0.3417	-0.4256	0.07055400
474	-0.3417	-1.2769	0.07055400
475	-0.2583	1.2769	0.07055368
476	-0.2583	0.4256	0.07055368
477	-0.2583	-0.4256	0.07055368
478	-0.2583	-1.2769	0.07055368
479	-0.1750	1.2769	0.07055411
480	-0.1750	0.4256	0.07055411
481	-0.1750	-0.4256	0.07055400
482	-0.1750	-1.2769	0.07055400
483	-0.0917	1.2769	0.07055368
484	-0.0917	0.4256	0.07055368
485	-0.0917	-0.4256	0.07055368
486	-0.0917	-1.2769	0.07055368
487	-0.0083	1.2769	0.07055411
488	-0.0083	0.4256	0.07055411
489	-0.0083	-0.4256	0.07055400
490	-0.0083	-1.2769	0.07055400
491	0.0750	1.2769	0.07055368
492	0.0750	0.4256	0.07055368
493	0.0750	-0.4256	0.07055368
494	0.0750	-1.2769	0.07055368
495	0.1583	1.2769	0.07055411
496	0.1583	0.4256	0.07055411
497	0.1583	-0.4256	0.07055400
498	0.1583	-1.2769	0.07055400
499	0.2417	1.2769	0.07055368
500	0.2417	0.4256	0.07055368
501	0.2417	-0.4256	0.07055368
502	0.2417	-1.2769	0.07055368
503	0.3250	1.2769	0.07055411
504	0.3250	0.4256	0.07055411
505	0.3250	-0.4256	0.07055400
506	0.3250	-1.2769	0.07055400
507	0.4083	1.2769	0.07055368
508	0.4083	0.4256	0.07055368

509	0.4083	-0.4256	0.07055368
510	0.4083	-1.2769	0.07055368
511	0.4917	1.2769	0.07055411
512	0.4917	0.4256	0.07055411
513	0.4917	-0.4256	0.07055400
514	0.4917	-1.2769	0.07055400
515	0.5750	1.2769	0.07055368
516	0.5750	0.4256	0.07055368
517	0.5750	-0.4256	0.07055368
518	0.5750	-1.2769	0.07055368
519	0.6583	1.2769	0.07055411
520	0.6583	0.4256	0.07055411
521	0.6583	-0.4256	0.07055400
522	0.6583	-1.2769	0.07055400
523	0.7417	1.2769	0.07055368
524	0.7417	0.4256	0.07055368
525	0.7417	-0.4256	0.07055368
526	0.7417	-1.2769	0.07055368
527	0.8250	1.2769	0.07055411
528	0.8250	0.4256	0.07055411
529	0.8250	-0.4256	0.07055400
530	0.8250	-1.2769	0.07055400
531	0.9083	1.2769	0.07055368
532	0.9083	0.4256	0.07055368
533	0.9083	-0.4256	0.07055368
534	0.9083	-1.2769	0.07055368
535	0.9917	1.2769	0.07055411
536	0.9917	0.4256	0.07055411
537	0.9917	-0.4256	0.07055400
538	0.9917	-1.2769	0.07055400
539	1.0750	1.2769	0.07055368
540	1.0750	0.4256	0.07055368
541	1.0750	-0.4256	0.07055368
542	1.0750	-1.2769	0.07055368
543	1.1583	1.2769	0.07055411
544	1.1583	0.4256	0.07055411
545	1.1583	-0.4256	0.07055400
546	1.1583	-1.2769	0.07055400
547	1.2417	1.2769	0.07055368
548	1.2417	0.4256	0.07055368
549	1.2417	-0.4256	0.07055368
550	1.2417	-1.2769	0.07055368
551	1.3250	1.2769	0.07055411
552	1.3250	0.4256	0.07055411
553	1.3250	-0.4256	0.07055400
554	1.3250	-1.2769	0.07055400
555	1.4083	1.2769	0.07055368
556	1.4083	0.4256	0.07055368
557	1.4083	-0.4256	0.07055368
558	1.4083	-1.2769	0.07055368

374	-1.0222	0.2859	0.06353887
375	-1.0222	-0.2859	0.06353887
376	-1.0222	-0.8578	0.06353887
377	-1.1333	-0.8578	0.06353887
378	-1.1333	-0.2859	0.06353886
379	-1.1333	0.2859	0.06353887
380	-1.2444	0.8578	0.06353895
381	-1.2444	0.2859	0.06353895
382	-1.2444	-0.2859	0.06353893
383	-1.2444	-0.8578	0.06353895
384	-1.3500	0.8578	0.06787496
385	-1.3500	0.3394	0.06787496
386	-1.3500	-0.3394	0.06787496
387	-1.3500	-1.0181	0.06787496
388	-1.4500	1.0181	0.06787496
389	-1.4500	0.3394	0.06787496
390	-1.4500	-0.3394	0.06787496
391	-1.4500	-1.0181	0.06787496
392	-1.5500	1.0181	0.06787496
393	-1.5500	0.3394	0.06787496
394	-1.5500	-0.3394	0.06787496
395	-1.5500	-1.0181	0.06787496
396	-1.6500	1.0181	0.06787496
397	-1.6500	0.3394	0.06787496
398	-1.6500	-0.3394	0.06787496
399	-1.6500	-1.0181	0.06787496
400	-1.7500	1.0181	0.06787496
401	-1.7500	0.3394	0.06787496
402	-1.7500	-0.3394	0.06787496
403	-1.7500	-1.0181	0.06787496
404	-1.8500	1.0181	0.06787496
405	-1.8500	0.3394	0.06787496
406	-1.8500	-0.3394	0.06787496
407	-1.8500	-1.0181	0.06787496
408	-1.9500	1.0181	0.06787496
409	-1.9500	0.3394	0.06787496
410	-1.9500	-0.3394	0.06787496
411	-1.9500	-1.0181	0.06787496
412	-2.0500	1.0181	0.06787496
413	-2.0500	0.3394	0.06787496
414	-2.0500	-0.3394	0.06787496
415	-2.0500	-1.0181	0.06787496
416	-2.1500	1.0181	0.06787496
417	-2.1500	0.3394	0.06787496
418	-2.1500	-0.3394	0.06787496
419	-2.1500	-1.0181	0.06787496
420	-2.2500	1.0181	0.06787496
421	-2.2500	0.3394	0.06787496
422	-2.2500	-0.3394	0.06787496
423	-2.2500	-1.0181	0.06787496
424	-2.3500	1.0181	0.06787496
425	-2.3500	0.3394	0.06787496
426	-2.3500	-0.3394	0.06787496
427	-2.3500	-1.0181	0.06787496
428	-2.4500	1.0181	0.06787496
429	-2.4500	0.3394	0.06787496
430	-2.4500	-0.3394	0.06787496
431	-2.4500	-1.0181	0.06787496
432	-2.5500	1.0181	0.06787496
433	-2.5500	0.3394	0.06787496
434	-2.5500	-0.3394	0.06787496
435	-2.5500	-1.0181	0.06787496
436	-2.6500	1.0181	0.06787496
437	-2.6500	0.3394	0.06787496
438	-2.6500	-0.3394	0.06787496
439	-2.6500	-1.0181	0.06787496
440	-2.7500	1.0181	0.06787496
441	-2.7500	0.3394	0.06787496
442	-2.7500	-0.3394	0.06787496
443	-2.7500	-1.0181	0.06787496
444	-2.8500	1.0181	0.06787496
445	-2.8500	0.3394	0.06787496
446	-2.8500	-0.3394	0.06787496
447	-2.8500	-1.0181	0.06787496
448	-2.9500	1.0181	0.06787496
449	-2.9500	0.3394	0.06787496
450	-2.9500	-0.3394	0.06787496
451	-2.9500	-1.0181	0.06787496
452	-3.0500	1.0181	0.06787496
453	-3.0500	0.3394	0.06787496
454	-3.0500	-0.3394	0.06787496
455	-3.0500	-1.0181	0.06787496
456	-3.1500	1.0181	0.06787496
457	-3.1500	0.3394	0.06787496
458	-3.1500	-0.3394	0.06787496
459	-3.1500	-1.0181	0.06787496
460	-3.2500	1.0181	0.06787496
461	-3.2500	0.3394	0.06787496
462	-3.2500	-0.3394	0.06787496
463	-3.2500	-1.0181	0.06787496
464	-3.3455	1.0181	0.07016797
465	-3.3455	0.3851	0.07016797
466	-3.3455	-0.3851	0.07016797
467	-3.3455	-1.1870	0.07016797
468	-3.4364	1.0181	0.07353887
469	-3.4364	0.3851	0.07353887
470	-3.4364	-0.3851	0.07353887
471	-3.4364	-1.1870	0.07353887
472	-3.5273	1.0181	0.07353887
473	-3.5273	0.3851	0.07353887
474	-3.5273	-0.3851	0.07353887
475	-3.5273	-1.1870	0.07353887
476	-3.6182	1.0181	0.07353887
477	-3.6182	0.3851	0.07353887
478	-3.6182	-0.3851	0.07353887
479	-3.6182	-1.1870	0.07353887
480	-3.7091	1.0181	0.07353887
481	-3.7091	0.3851	0.07353887
482	-3.7091	-0.3851	0.07353887
483	-3.7091	-1.1870	0.07353887
484	-3.8000	1.0181	0.07353887
485	-3.8000	0.3851	0.07353887
486	-3.8000	-0.3851	0.07353887
487	-3.8000	-1.1870	0.07353887
488	-3.8909	1.0181	0.07353887
489	-3.8909	0.3851	0.07353887
490	-3.8909	-0.3851	0.07353887
491	-3.8909	-1.1870	0.07353887
492	-3.9818	1.0181	0.07353887
493	-3.9818	0.3851	0.07353887
494	-3.9818	-0.3851	0.07353887
495	-3.9818	-1.1870	0.07353887
496	-4.0727	1.0181	0.07353887
497	-4.0727	0.3851	0.07353887
498	-4.0727	-0.3851	0.07353887
499	-4.0727	-1.1870	0.07353887
500	-4.1636	1.0181	0.07353887
501	-4.1636	0.3851	0.07353887
502	-4.1636	-0.3851	0.07353887
503	-4.1636	-1.1870	0.07353887
504	-4.2545	1.0181	0.07353887
505	-4.2545	0.3851	0.07353887
506	-4.2545	-0.3851	0.07353887
507	-4.2545	-1.1870	0.07353887
508	-4.3455	1.0181	0.07353887
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512	-4.4364	1.0181	0.07353887
513	-4.4364	0.3851	0.07353887
514	-4.4364	-0.3851	0.07353887
515	-4.4364	-1.1870	0.07353887
516	-4.5273	1.0181	0.07353887
517	-4.5273	0.3851	0.07353887
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519	-4.5273	-1.1870	0.07353887
520	-4.6182	1.0181	0.07353887
521	-4.6182	0.3851	0.07353887
522	-4.6182	-0.3851	0.07353887
523	-4.6182	-1.1870	0.07353887
524	-4.7091	1.0181	0.07353887
525	-4.7091	0.3851	0.07353887
526	-4.7091	-0.3851	0.07353887
527	-4.7091	-1.1870	0.07353887
528	-4.8000	1.0181	0.07353887
529	-4.8000	0.3851	0.07353887
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531	-4.8000	-1.1870	0.07353887
532	-4.8909	1.0181	0.07353887
533	-4.8909	0.3851	0.07353887
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535	-4.8909	-1.1870	0.07353887
536	-4.9818	1.0181	0.07353887
537	-4.9818	0.3851	0.07353887
538	-4.9818	-0.3851	0.07353887
539	-4.9818	-1.1870	0.07353887
540	-5.0727	1.0181	0.07353887
541	-5.0727	0.3851	0.07353887
542	-5.0727	-0.3851	0.07353887
543	-5.0727	-1.1870	0.07353887
544	-5.1636	1.0181	0.07353887
545	-5.1636	0.3851	0.07353887
546	-5.1636	-0.3851	0.07353887
547	-5.1636	-1.1870	0.07353887
548	-5.2545	1.0181	0.07353887
549	-5.2545	0.3851	0.07353887
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551	-5.2545	-1.1870	0.07353887
552	-5.3455	1.0181	0.07353887
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555	-5.3455	-1.1870	0.07353887
556	-5.4364	1.0181	0.07353887
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559	-5.4364	-1.1870	0.07353887
560	-5.5273	1.0181	0.07353887
561	-5.5273	0.3851	0.07353887
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563	-5.5273	-1.1870	0.07353887
564	-5.6182	1.0181	0.07353887
565	-5.6182	0.3851	0.07353887
566	-5.6182	-0.3851	0.07353887
567	-5.6182	-1.1870	0.07353887
568	-5.7091	1.0181	0.07353887
569	-5.7091	0.3851	0.07353887
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571	-5.7091	-1.1870	0.07353887
572	-5.8000	1.0181	0.07353887
573	-5.8000	0.3851	0.07353887
574	-5.8000	-0.3851	0.07353887
575	-5.8000	-1.1870	0.07353887
576	-5.8909	1.0181	0.07353887
577	-5.8909	0.3851	0.07353887
578	-5.8909	-0.3851	0.07353887
579	-5.8909	-1.1870	0.07353887
580	-5.9818	1.0181	0.07353887
581	-5.9818	0.3851	0.07353887
582	-5.9818	-0.3851	0.07353887
583	-5.9818	-1.1870	0.07353887
584	-6.0727	1.0181	0.07353887
585	-6.0727	0.3851	0.07353887
586	-6.0727	-0.3851	0.07353887
587	-6.0727	-1.1870	0.07353887
588	-6.1636	1.0181	0.07353887
589	-6.1636	0.3851	0.07353887
590	-6.1636	-0.3851	0.07353887
591	-6.1636	-1.1870	0.07353887
592	-6.2545	1.0181	0.07353887
593	-6.2545	0.3851	0.07353887
594	-6.2545	-0.3851	0.07353887
595	-6.2545	-1.1870	0.07353887
596	-6.3455	1.0181	0.07353887
597	-6.3455	0.3851	0.07353887
598	-6.3455	-0.3851	0.07353887
599	-6.3455	-1.1870	0.07353887
600	-6.4364	1.0181	0.07353887
601	-6.4364	0.3851	0.07353887
602	-6.4364	-0.3851	0.07353887
603	-6.4364	-1.1870	0.07353887
604	-6.5273	1.0181	0.07353887
605	-6.5273	0.3851	0.07353887
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607	-6.5273	-1.1870	0.07353887
608	-6.6182	1.0181	0.07353887
609	-6.6182	0.3851	0.07353887
610	-6.6182	-0.3851	0.07353887
611	-6.6182	-1.1870	0.07353887
612	-6.7091	1.0181	0.07353887
613	-6.7091	0.3851	0.07353887
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615	-6.7091	-1.1870	0.07353887
616	-6.8000	1.0181	0.07353887
617	-6.8000	0.3851	0.07353887
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619	-6.8000	-1.1870	0.07353887
620	-6.8909	1.0181	0.07353887
621	-6.8909	0.3851	0.07353887
622	-6.8909	-0.3851	0.07353887
623	-6.8909	-1.1870	0.07353887
624	-6.9818	1.0181	0.07353887
625	-6.9818	0.3851	0.07353887
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627	-6.9818	-1.1870	0.07353887
628	-7.0727	1.0181	0.07353887
629	-7.0727	0.3851	0.07353887
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631	-7.0727	-1.1870	0.07353887
632	-7.1636	1.0181	0.07353887
633	-7.1636	0.3851	0.07353887
634	-7.1636	-0.3851	0.07353887
635	-7.1636	-1.1870	0.07353887
636	-7.2545	1.0181	0.07353887
637	-7.2545	0.3851	0.07353887
638	-7.2545	-0.3851	0.07353887
639	-7.2545	-1.1870	0.07353887
640	-7.3455	1.0181	0.07353887
641	-7.3455	0.3851	0.07353887
642	-7.3455	-0.3851	0.07353887
643	-7.3455	-1.1870	0.07353887
644	-7.4364	1.0181	0.07353887
645	-7.4364	0.3851	0.07353887
646	-7.4364	-0.3851	0.07353887
647	-7.4364	-1.1870	0.07353887
648	-7.5273	1.0181	0.07353887
649	-7.5273	0.3851	0.07353887
650	-7.5273	-0.3851	0.07353887
651	-7.5273	-1.1870	0.07353887
652	-7.6182	1.0181	0.07353887
653	-7.6182	0.3851	0.07353887
654	-7.6182	-0.3851	0.07353887
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656	-7.7091	1.0181	0.07353887
657	-7.7091	0.3851	0.07353887
658	-7.7091	-0.3851	0.07353887
659	-7.7091	-1.1870	0.07353887
660	-7.8000	1.0181	0.07353887
661	-7.8000	0.3851	0.07353887
662	-7.8000	-0.3851	0.07353887
663	-7.8000	-1.1870	0.07353887
664	-7.8909	1.0181	0.07353887
665	-7.8909	0.3851	0.07353887
666	-7.8909	-0.3851	0.07353887
667	-7.8909	-1.1870	0.07353887
668	-7.9818	1.0181	0.07353887
669	-7.9818	0.3851	0.07353887
670	-7.9818	-0.3851	0.07353887
671	-7.9818	-1.1870	0.07353887
672	-8.0727	1.0181	0.07353887
673	-8.0727	0.3851	0.07353887
674	-8.0727	-0.3851	0.07353887
675	-8.0727	-1.1870	0.07353887
676	-8.1636	1.0181	0.07353887
677	-8.1636	0.3851	0.07353887
678	-8.1636	-0.3851	0.07353887
679	-8.1636	-1.1870	0.07353887
680	-8.2545	1.0181	0.07353887
681	-8.2545	0.3851	0.07353887
682	-8.2545	-0.3851	0.07353887
683	-8.2545	-1.1870	0.07353887
684	-8.3455	1.0181	0.07353887
685	-8.3455	0.3851	0.07353887
686	-8.3455	-0.3851	0.07353887
687	-8.3455	-1.1870	0.07353887
688	-8.4364	1.0181	0.07353887
689	-8.4364	0.3851	0.07353887
690	-8.4364	-0.3851	0.07353887
691	-8.4364	-1.1870	0.07353887
692	-8.5273	1.0181	0.07353887
693	-8.5273	0.3851	0.07353887
694	-8.5273	-0.3851	0.07353887
695	-8.5273	-1.1870	0.07353887
696	-8.6182	1.0181	0.07353887
697	-8.6182	0.3851	0.07353887
698	-8.6182	-0.3851	0.07353887
699	-8.6182	-1.1870	0.07353887
700	-8.7091	1.0181	0.07353887
701	-8.7091	0.3851	0.07353887
702	-8.7091	-0.3851	0.07353887
703	-8.7091	-1.1870	0.07353887
704	-8.8000	1.0181	0.07353887
705	-8.8000	0.3851	0.07353887
706	-8.8000	-0.3851	0.07353887
707	-8.8000	-1.1870	0.07353887
708	-8.8909	1.0181	0.07353887
709	-8.8909	0.3851	0.07353887
710	-8.8909	-0.3851	0.07353887
711	-8.8909	-1.1870	0.07353887
712	-8.9818	1.0181	0.07353887
713	-8.9818	0.3851	0.07353887
714	-8.9818	-0.3851	0.07353887
715	-8.9818	-1.1870	0.07353887
716	-9.0727	1.0181	0.07353887
717	-9.0727	0.3851	0.07353887
718	-9.0727	-0.3851	0.07353887
719	-9.0727	-1.1870	0.07353887
720	-9.1636	1.0181	0.07353887
721	-9.1636	0.3851	0.07353887
722	-9.1636	-0.3851	0.07353887
723	-9.1636	-1.1870	0.07353887
724	-9.2545	1.0181	0.07353887
725	-9.2545	0.3851	0.07353887
726	-9.2545	-0.3851	0.07353887
727	-9.2545	-1.1870	0.07353887
728	-9.3455	1.0181	0.07353887
729	-9.3455	0.3851	0.07353887
730	-9.3455	-0.3851	0.07353887
731	-9.3455	-1.1870	0.07353887
732	-9.4364	1.0181	0.07353887
733	-9.4364	0.3851	0.07353887
734	-9.4364	-0.3851	0.07353887
735	-9.4364	-1.1870	0.07353887
736	-9.5273	1.0181	0.07353887
737	-9.5273	0.3851	0.07353887
738	-9.5273	-0.3851	0.07353887
739	-9.5273	-1.1870	0.07353887
740	-9.6182	1.0181	0.07353887
741	-9.6182	0.3851	0.07353887
742	-9.6182	-0.3851	0.07353887
743	-9.6182	-1.1870	0.07353887
744	-9.7091	1.0181	0.07353887
745	-9.7091	0.3851	0.07353887
746	-9.7091	-0.3851	0.07353887
747	-9.7091	-1.1870	0.07353887
748	-9.8000	1.0181	0.07353887
749	-9.8000	0.3851	0.07353887
750	-9.8000	-0.3851	0.07353887
751	-9.8000	-1.1870	0.07353887
752	-9.8909	1.0181	0.07353887
753	-9.8909	0.3851	0.07353887
754	-9.8909	-0.3851	0.07353887
755	-9.8909	-1.1870	0.07353887
756	-9.9818	1.0181	0.07353887
757	-9.9818	0.3851	0.07353887
758	-9.9818	-0.3851	0.07353887
759	-9.9818	-1.1870	0.07353887
760	-10.0727	1.0181	0.07353887
761	-10.0727	0.3851	0.07353887
762	-10.0727	-0.3851	0.07353887
763	-10.0727	-1.1870	0.07353887
764	-10.1636	1.0181	0.07353887
765	-10.1636	0.3851	0.07353887
766	-10.1636	-0.3851	0.07353887
767	-10.1636	-1.1870	0.07353887
768	-10.2545	1.0181	0.07353887
769	-10.2545	0.3851	0.07353887
770	-10.2545	-0.3851	0.07353887
771	-10.2545	-1.1870	0.07353887
772	-10.3455	1.0181	0.07353887
773	-10.3455	0.3851	0.07353887
774	-10.3455	-0.3851	0.07353887
775	-10.3455	-1.1870	0.07353887
776	-10.4364	1.0181	0.07353887
777	-10.4364	0.3851	0.07353887
778	-10.4364	-0.3851	0.07353887
779	-10.4364	-1.1870	0.07353887
780	-10.5273	1.0181	0.07353887
781	-10.5273	0.3851	0.07353887
782	-10.5273	-0.3851	0.07353887
783	-10.5273	-1.1870	0.07353887
784	-10.6182	1.0181	0.07353887
785	-10.6182	0.3851	0.07353887
786	-10.6182	-0.3851	0.07353887
787	-10.6182	-1.1870	0.07353887
788	-10.7091	1.0181	0.07353887
789	-10.7091	0.3851	0.07353887
790	-10.7091	-0.3851	0.07353887
791	-10.7091	-1.1870	0.07353887
792	-10.8000	1.0181	0.07353887
793	-10.8000	0.3851	0.07353887
794	-10.8000	-0.3851	0.07353887
795	-10.8000	-1.1870	0.07353887
796	-10.8909	1.0181	0.07353887
797	-10.8909	0.3851	0.07353887
798	-10.8909	-0.3851	0.07353887
799	-10.8909	-1.1870	0.07353887
800	-10.9818	1.0181	0.07353887
801	-10.9818	0.3851	0.07353887
802	-10.9818	-0.3851	0.07353887
803	-10.9818	-1.1870	0.07353887
804	-11.0727	1.0181	0.07353887
805	-11.0727	0.3851	0.07353887
806	-11.0727	-0.3851	0.07353887
807	-11.0727	-1.1870	0.07353887
808	-11.1636	1.0181	0.07353887
809	-11.1636	0.3851	0.07353887
810	-11.1636	-0.3851	0.07353887
811	-11.1636	-1.1870	0.07353887
812	-11.2545	1.0181	0.07353887
813	-11.2545	0.3851	0.07353887
814	-11.2545	-0.3851	0.07353887
815	-11.2545	-1.1870	0.07353887
816	-11.3455	1.0181	0.07353887
817	-11.3455	0.3851	0.07353887
818	-11.3455	-0.3851	0.07353887
819	-11.3455	-1.1870	0.07353887
820	-11.4364	1.0181	0.07353887
821	-11.4364	0.3851	0.07353887
822	-11.4364	-0.3851	0.07353887
823	-11.4364	-1.1870	0.07353887
824	-11.5273	1.0181	0.07353887
825	-11.5273	0.3851	0.07353887
826	-11.5273	-0.3851	0.07353887
827	-11.5273	-1.1870	0.07353887
828	-11.6182	1.0181	0.07353887
829	-11.6182	0.3851	0.07353887
830	-11.6182	-0.3851	0.07353887
831	-11.6182	-1.1870	0.07353887
832	-11.7091	1.0181	0.07353887
833	-11.7091	0.3851	0.07353887
834	-11.7091	-0.3851	0.07353887
835	-11.7091	-1.1870	0.07353887
836	-11.8000	1.0181	0.07353887
837	-11.8000	0.3851	0.07353887
838	-11.8000	-0.3851	0.07353887
839	-11.8000	-1.1870	0.07353887
840	-11.8909	1.0181	0.07353887
841	-11.8909	0.3851	0.07353887
842	-11.8909	-0.3851	0.07353887
843	-11.8909	-1.1870	0.07353887
844	-11.9818	1.0181	0.07353887
845	-11.9818	0.3851	0.07353887
846	-11.9818	-0.3851	0.07353887
847	-11.9818	-1.1870	0.07353887
848	-12.0727	1.0181	0.07353887
849	-12.0727	0.3851	0.07353887
850	-12.0727	-0.3851	0.07353887
851	-12.0727	-1.1870	0.07353887
852	-12.1636	1.0181	0.07353887
853	-12.1636	0.3851	0.07353887
854	-12.1636	-0.3851	0.07353887
855	-12.1636	-1.1870	0.07353887
856	-12.2545	1.0181	0.07353887
857	-12.2545	0.3851	0.07353887
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859	-12.2545	-1.1870	0.07353887
860	-12.3455	1.0181	0.07353887
861	-12.3455	0.3851	0.07353887
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863	-12.3455	-1.1870	0.07353887
864	-12.4364	1.0181	0.07353887
865	-12.4364	0.3851	0.07353887
866	-12.4364	-0.3851	0.07353887
867	-12.4364	-1.1870	0.07353887
868	-12.5273	1.0181	0.07353887
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870	-12.5273	-0.3851	0.07353887
871	-12.5273	-1.1870	0.07353887
872	-12.6182	1.0181	0.07353887
873	-12.6182	0.3851	0.07353887
874	-12.6182	-0.3851	0.07353887
875	-12.6182	-1.1870	0.07353887
876	-12.7091	1.0181	0.07353887
877	-12.7091	0.3851	0.07353887
878	-12.7091	-0.3851	0.07353887
879	-12.7091	-1.1870	0.07353887
880	-12.8000	1.0181	0.07353887
881	-12.8000	0.3851	0.07353887
882	-12.8000	-0.3851	0.07353887
883	-12.8000	-1.1870	0.07353887
884	-12.8909	1.0181	0.07353887
885	-12.8909	0.3851	0.07353887
886	-12.8909	-0.3851	0.07353887
887	-12.8909	-1.1870	0.07353887
888	-12.9818	1.0181	0.07353887
889	-12.9818	0.3851	0.07353887
890	-12.9818	-0.3851	0.07353887
891	-12.9818	-1.1870	0.07353887
892	-13.0727	1.0181	0.07353887
893	-13.0727	0.3851	0.07353887
894	-13.0727	-0.3851	0.07353887
895	-13.0727	-1.1870	0.07353887
896	-13.1636	1.0181	0.07353887
897	-13.1636	0.3851	0.07353887
898	-13.1636	-0.3851	0.07353887
899	-13.1636	-1.1870	0.07353887
900	-13.2545	1.0181	0.07353887
901	-13.2545	0.3851	0.07353887
902	-13.2545	-0.3851	0.07353887
903	-13.2545	-1.1870	0.07353887
904	-13.3455	1.0181	0.07353887
905	-13.3455	0.3851	0.07353887
906	-13.3455	-0.3851	0.07353887
907	-13.3455	-1.1870	0.07353887
908	-13.4364	1.0181	0.07353887
909	-13.4364	0.3851	0.07353887
910	-13.4364	-0.3851	0.07353887
911	-13.4364	-1.1870	0.07353887
912	-13.5273	1.0181	0.07353887
913	-13.5273	0.3851	0.07353887
914	-13.5273	-0.3851	0.07353887
915	-13.5273	-1.1870	0.07353887
916	-13.6182	1.0181	0.07353887
917	-13.6182	0.3851	0.07353887
918	-13.6182	-0.3851	0.07353887
919	-13.6182	-1.1870	0.07353887
920	-13.7091	1.0181	0.07353887
921	-13.7091	0.3851	0.07353887
922	-13.7091	-0.3851	0.07353887
923	-13.7091	-1.1870	0.07353887
924	-13.8000	1.0181	0.07353887
925	-13.8000	0.3851	0.07353887
926	-13.8000	-0.3851	0.07353887
927	-13.8000	-1.1870	0.07353887
928	-13.8909	1.0181	0.07353887
929	-13.8909	0.3851	0.07353887
930	-13.8909	-0.3851	0.07353887
931	-13.8909	-1.1870	0.07353887
932	-13.9818	1.0181	0.07353887
933	-13.9818	0.3851	0.07353887
934	-13.9818	-0.3851	0.07353887
935	-13.9818	-1.1870	0.07353887
936	-14.0727	1.0181	0.07353887
937	-14.0727	0.3851	0.07353887
938	-14.0727	-0.3851	0.07353887
939	-14.0727	-1.1870	0.07353887
940	-14.1636	1.0181	0.07353887
941	-14.1636	0.3851	0.07353887
942	-14.1636	-0.3851	0.07353887
943	-14.1636	-1.1870	0.07353887
944	-14.2545	1.0181	0.07353

471	-4.0500	1.7530	0.00824374
472	-4.2167	1.7794	0.00412187
473	-4.0500	1.7849	0.00824374
474	-3.8600	1.7520	0.00824374
475	-3.8600	1.7483	0.00491875
476	-4.0500	1.7461	0.00245938
477	-4.2167	1.7430	0.00328438
478	-4.0500	1.7401	0.00656873
479	-3.8167	1.7357	0.00328436
480	-4.0500	1.7338	0.00656873
481	-5.0500	1.7338	0.00656873
482	-5.2167	1.7294	0.00328436
483	-4.8500	1.7275	0.00656876
484	-4.8000	1.7275	0.00656876
485	-5.0500	1.7275	0.00656876
486	-5.2167	1.7232	0.00328438
487	-4.2167	1.7124	0.00412188
488	-4.0500	1.7049	0.00824374
489	-4.2167	1.6994	0.00412187
490	-3.8600	1.6920	0.00824374

491	-4.0500	1.6896	0.00824374
492	-4.2167	1.6865	0.00412187
493	-4.0500	1.6840	0.00824377
494	-3.8500	1.6811	0.00824378
495	-4.0500	1.6791	0.00824377
496	-4.2167	1.6735	0.00412188
497	-3.8167	1.6711	0.00496250
498	-3.8500	1.6436	0.01982498
499	-3.8167	1.6301	0.00496249
500	-3.8000	1.6077	0.00992501
501	-3.8500	1.6033	0.00992501
502	-3.8167	1.5796	0.00496250
503	-3.8500	1.5735	0.00992501
504	-3.8000	1.5621	0.01982501
505	-3.8500	1.5579	0.00992501
506	-3.8167	1.5546	0.00496250
507	-3.8167	1.5187	0.01561875
508	-3.0500	1.4777	0.01113751
509	-3.8167	1.4501	0.00561875
510	-3.0500	1.4277	0.01113748
511	-3.0500	1.4170	0.01113748
512	-3.2167	1.4104	0.00556874
513	-3.0500	1.4080	0.01113748
514	-3.2167	1.4049	0.00556874
515	-3.0500	1.3969	0.01113748
516	-3.2167	1.3938	0.00556874
517	-3.0500	1.3858	0.01113748
518	-3.2167	1.3827	0.00556874
519	-3.0500	1.3747	0.01113748
520	-3.2167	1.3716	0.00556874
521	-3.0500	1.3636	0.01113748
522	-3.2167	1.3605	0.00556874
523	-3.0500	1.3525	0.01113748
524	-3.2167	1.3494	0.00556874
525	-3.0500	1.3414	0.01113748
526	-3.2167	1.3383	0.00556874
527	-3.0500	1.3303	0.01113748
528	-3.0500	1.3272	0.00556874
529	-3.2167	1.3240	0.01113748
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531	-3.0500	1.3129	0.01113748
532	-3.2167	1.3098	0.00556874
533	-3.0500	1.3018	0.01113748
534	-3.2167	1.2987	0.00556874
535	-3.0500	1.2907	0.01113748
536	-3.2167	1.2876	0.00556874
537	-3.0500	1.2796	0.01113748
538	-3.2167	1.2765	0.00556874
539	-3.0500	1.2685	0.01113748
540	-3.2167	1.2654	0.00556874
541	-3.0500	1.2574	0.01113748
542	-3.2167	1.2543	0.00556874
543	-3.0500	1.2463	0.01113748
544	-3.2167	1.2432	0.00556874
545	-3.0500	1.2352	0.01113748
546	-3.2167	1.2321	0.00556874
547	-3.0500	1.2241	0.01113748
548	-3.2167	1.2210	0.00556874

547	-8.2167	-1.5187	0.00581875
548	-8.0833	-1.4730	0.01163751
549	-8.2167	-1.4273	0.00581875
550	-1.8000	-1.4273	0.01163748
551	-2.0500	-1.4273	0.01163748
552	-2.2167	-1.4190	0.00581874
553	-1.5500	-1.3900	0.01163751
554	-1.9000	-1.3900	0.01163751
555	-2.0500	-1.3900	0.01163751
556	-2.2167	-1.3730	0.00581875
557	-1.2167	-1.3219	0.01668125
558	-1.0500	-1.2770	0.01336250
559	-1.2167	-1.2004	0.01668125
560	-0.8000	-1.2230	0.01336250
561	-1.0500	-1.2230	0.01336250
562	-1.2167	-1.2187	0.01668125
563	-0.5500	-1.1704	0.01336250
564	-0.8000	-1.1704	0.01336250
565	-1.0500	-1.1704	0.01336250
566	-1.2167	-1.1687	0.01668125
567	-0.2167	-1.1221	0.01668125
568	-0.0500	-1.0737	0.01336250
569	-0.2167	-1.0737	0.01668125
570	0.0500	-1.0737	0.01336250
571	0.2167	-1.0737	0.01668125
572	-0.2167	-1.0254	0.01668125
573	-0.0500	-1.0254	0.01336250
574	0.2167	-1.0254	0.01668125
575	0.0500	-1.0254	0.01336250
576	-0.2167	-0.9771	0.01668125
577	-0.0500	-0.9771	0.01336250
578	0.2167	-0.9771	0.01668125
579	0.0500	-0.9771	0.01336250
580	-0.2167	-0.9288	0.01668125
581	-0.0500	-0.9288	0.01336250
582	0.2167	-0.9288	0.01668125
583	0.0500	-0.9288	0.01336250
584	-0.2167	-0.8805	0.01668125
585	-0.0500	-0.8805	0.01336250
586	0.2167	-0.8805	0.01668125
587	0.0500	-0.8805	0.01336250
588	-0.2167	-0.8322	0.01668125
589	-0.0500	-0.8322	0.01336250
590	0.2167	-0.8322	0.01668125
591	0.0500	-0.8322	0.01336250
592	-0.2167	-0.7839	0.01668125
593	-0.0500	-0.7839	0.01336250
594	0.2167	-0.7839	0.01668125
595	0.0500	-0.7839	0.01336250
596	-0.2167	-0.7356	0.01668125
597	-0.0500	-0.7356	0.01336250
598	0.2167	-0.7356	0.01668125
599	0.0500	-0.7356	0.01336250
600	-0.2167	-0.6873	0.01668125
601	-0.0500	-0.6873	0.01336250
602	0.2167	-0.6873	0.01668125
603	0.0500	-0.6873	0.01336250
604	-0.2167	-0.6390	0.01668125
605	-0.0500	-0.6390	0.01336250
606	0.2167	-0.6390	0.01668125
607	-8.2167	-1.5187	0.00581875
608	-8.0833	-1.4730	0.01163751
609	-8.2167	-1.4273	0.00581875
610	-1.8000	-1.4273	0.01163748
611	-2.0500	-1.4273	0.01163748
612	-2.2167	-1.4190	0.00581874
613	-1.5500	-1.3900	0.01163751
614	-1.9000	-1.3900	0.01163751
615	-2.0500	-1.3900	0.01163751
616	-2.2167	-1.3730	0.00581875
617	-1.2167	-1.3219	0.01668125
618	-1.0500	-1.2770	0.01336250
619	-1.2167	-1.2004	0.01668125
620	-0.8000	-1.2230	0.01336250
621	-1.0500	-1.2230	0.01336250
622	-1.2167	-1.2187	0.01668125
623	-0.5500	-1.1704	0.01336250
624	-0.8000	-1.1704	0.01336250
625	-1.0500	-1.1704	0.01336250
626	-1.2167	-1.1687	0.01668125
627	-0.2167	-1.1221	0.01668125
628	-0.0500	-1.0737	0.01336250
629	-0.2167	-1.0254	0.01668125
630	0.2167	-1.0254	0.01668125
631	-0.0500	-0.9771	0.01336250
632	-0.2167	-0.9288	0.01668125
633	0.2167	-0.9288	0.01668125
634	0.0500	-0.9288	0.01336250
635	-0.2167	-0.8805	0.01668125
636	-0.0500	-0.8805	0.01336250
637	0.2167	-0.8805	0.01668125
638	0.0500	-0.8805	0.01336250
639	-0.2167	-0.8322	0.01668125
640	0.0500	-0.8322	0.01336250
641	0.2167	-0.8322	0.01668125
642	0.0500	-0.7839	0.01336250
643	0.2167	-0.7839	0.01668125
644	0.0500	-0.7839	0.01336250
645	0.2167	-0.7356	0.01668125
646	0.0500	-0.7356	0.01336250
647	0.2167	-0.7356	0.01668125
648	0.0500	-0.7356	0.01336250
649	0.2167	-0.6873	0.01668125
650	0.0500	-0.6873	0.01336250
651	0.2167	-0.6873	0.01668125
652	0.0500	-0.6873	0.01336250
653	0.2167	-0.6390	0.01668125
654	0.0500	-0.6390	0.01336250
655	0.2167	-0.6390	0.01668125
656	0.0500	-0.6390	0.01336250

ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
647	-8.2500	2.0461	0.00049100
648	-8.2500	1.8307	0.00049100
649	-8.2500	1.6153	0.00049100
650	-8.2500	1.4000	0.00049100
651	-8.2500	1.1846	0.00049100
652	-8.2500	0.9692	0.00049100
653	-8.2500	0.7539	0.00049100
654	-8.2500	0.5384	0.00049100
655	-8.2500	0.3231	0.00049100
656	-8.2500	0.1077	0.00049100

714	-0.1363	1.0523	0.00049100
713	-0.3212	1.0972	0.00049100
712	-0.5163	1.1411	0.00049100
711	-0.7117	1.1840	0.00049100
710	-0.9072	1.2258	0.00049100
709	-1.1030	1.2666	0.00049100
708	-1.2990	1.3064	0.00049100
707	-1.4952	1.3451	0.00049100
706	-1.6917	1.3829	0.00049100
705	-1.8883	1.4196	0.00049100
704	-2.0850	1.4552	0.00049100
703	-2.2818	1.4899	0.00049100
702	-2.4786	1.5235	0.00049100
701	-2.6755	1.5561	0.00049100
700	-2.8724	1.5876	0.00049100
699	-3.0693	1.6181	0.00049100
698	-3.2663	1.6476	0.00049100
697	-3.4633	1.6760	0.00049100
696	-3.6603	1.7034	0.00049100
695	-3.8573	1.7298	0.00049100
694	-4.0543	1.7552	0.00049100
693	-4.2513	1.7796	0.00049100
692	-4.4483	1.8030	0.00049100
691	-4.6454	1.8254	0.00049100
690	-4.8424	1.8468	0.00049100
689	-5.0394	1.8672	0.00049100
688	-5.2365	1.8866	0.00049100
687	-5.4335	1.9050	0.00049100
686	-5.6305	1.9224	0.00049100
685	-5.8276	1.9388	0.00049100
684	-6.0246	1.9542	0.00049100
683	-6.2216	1.9686	0.00049100
682	-6.4187	1.9820	0.00049100
681	-6.6157	1.9944	0.00049100
680	-6.8127	2.0058	0.00049100
679	-7.0098	2.0162	0.00049100
678	-7.2068	2.0256	0.00049100
677	-7.4038	2.0340	0.00049100
676	-7.6009	2.0414	0.00049100
675	-7.7979	2.0478	0.00049100
674	-7.9949	2.0532	0.00049100
673	-8.1920	2.0576	0.00049100
672	-8.3890	2.0610	0.00049100
671	-8.5860	2.0634	0.00049100
670	-8.7831	2.0648	0.00049100
669	-8.9801	2.0652	0.00049100
668	-9.1771	2.0646	0.00049100
667	-9.3742	2.0630	0.00049100
666	-9.5712	2.0604	0.00049100
665	-9.7682	2.0568	0.00049100
664	-9.9653	2.0522	0.00049100
663	-10.1623	2.0466	0.00049100
662	-10.3593	2.0400	0.00049100
661	-10.5564	2.0324	0.00049100
660	-10.7534	2.0238	0.00049100
659	-10.9504	2.0142	0.00049100
658	-11.1475	2.0036	0.00049100
657	-11.3445	1.9920	0.00049100

715	0.8445	1.0634	0.00049100
716	0.6481	1.0588	0.00049100
717	0.4516	1.0532	0.00049100
718	0.2552	1.0467	0.00049100
719	0.0587	1.0391	0.00049100
720	-0.1377	1.0305	0.00049100
721	-0.3342	1.0210	0.00049100
722	-0.5306	1.0104	0.00049100
723	-0.7271	0.9989	0.00049100
724	-0.9235	0.9863	0.00049100
725	-1.1199	0.9728	0.00049100
726	-1.3163	0.9582	0.00049100
727	-1.5127	0.9427	0.00049100
728	-1.7091	0.9261	0.00049100
729	-1.9055	0.9086	0.00049100
730	-2.1019	0.8900	0.00049100
731	-2.2983	0.8705	0.00049100
732	-2.4947	0.8500	0.00049100
733	-2.6911	0.8285	0.00049100
734	-2.8875	0.8060	0.00049100
735	-3.0839	0.7826	0.00049100
736	-3.2803	0.7582	0.00049100
737	-3.4767	0.7328	0.00049100
738	-3.6731	0.7065	0.00049100
739	-3.8695	0.6792	0.00049100
740	-4.0659	0.6510	0.00049100
741	-4.2623	0.6218	0.00049100
742	-4.4587	0.5917	0.00049100
743	-4.6551	0.5606	0.00049100
744	-4.8515	0.5286	0.00049100
745	-5.0479	0.4957	0.00049100
746	-5.2443	0.4618	0.00049100
747	-5.4407	0.4270	0.00049100
748	-5.6371	0.3912	0.00049100
749	-5.8335	0.3545	0.00049100
750	-6.0299	0.3169	0.00049100
751	-6.2263	0.2783	0.00049100
752	-6.4227	0.2388	0.00049100
753	-6.6191	0.1984	0.00049100
754	-6.8155	0.1570	0.00049100
755	-7.0119	0.1147	0.00049100
756	-7.2083	0.0715	0.00049100
757	-7.4047	0.0274	0.00049100
758	-7.6011	-0.0176	0.00049100
759	-7.7975	-0.0636	0.00049100
760	-7.9939	-0.1106	0.00049100
761	-8.1903	-0.1586	0.00049100
762	-8.3867	-0.2076	0.00049100
763	-8.5831	-0.2576	0.00049100
764	-8.7795	-0.3086	0.00049100
765	-8.9759	-0.3606	0.00049100
766	-9.1723	-0.4136	0.00049100
767	-9.3687	-0.4676	0.00049100
768	-9.5651	-0.5226	0.00049100
769	-9.7615	-0.5786	0.00049100
770	-9.9579	-0.6356	0.00049100

ELEMENTOS DE ARRASTRADO

NUMERO	Y	AREA
701	0.1100	0.0000	0.00000000

Fuerzas axiales en los ejes X PILA - 9 - (Ref. a eje de pila)

RESULTADOS

ALFA	N	MX	MY
90.00	-2589.104	-3.406	141.017
90.00	-2557.647	-2.984	293.129
90.00	-2525.164	-2.489	463.878
90.00	-2487.883	-2.004	650.784
90.00	-2448.079	-1.496	855.737
90.00	-2399.103	-0.973	1077.134
90.00	-2349.511	-0.468	1314.331
90.00	-2297.444	0.145	1565.241
90.00	-2196.813	1.741	2070.821
90.00	-1916.578	5.384	4043.871
90.00	-1408.166	8.014	6.0[illegible]
90.00	-[illegible]	[illegible]	[illegible]
90.00	-[illegible]	[illegible]	[illegible]
90.00	-[illegible]	[illegible]	[illegible]
90.00	[illegible]	[illegible]	[illegible]
90.00	[illegible]	[illegible]	[illegible]
90.00	[

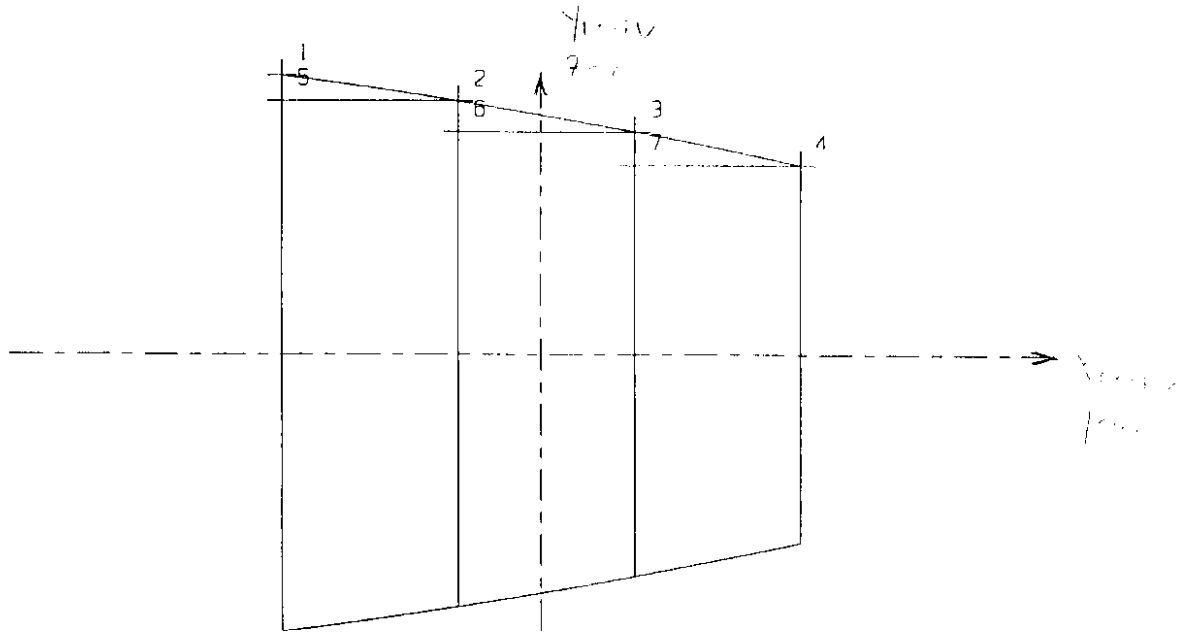
110.00	-2596.217	97.418	191.110
110.00	-2256.198	34.117	304.347
110.00	-1981.370	41.456	474.199
110.00	-1636.122	49.777	665.399
110.00	-1440.081	58.595	866.753
110.00	-1198.117	69.298	1091.068
110.00	-1040.588	79.136	1334.543
110.00	-1063.549	99.599	1702.649
110.00	-1114.251	145.686	2440.052
110.00	-1844.481	201.838	3781.033
110.00	-1448.936	267.991	5727.003
110.00	-933.184	345.464	8815.682
110.00	-295.656	434.013	11808.269
110.00	440.930	525.403	14387.150
110.00	1274.154	618.521	18672.217
110.00	2176.042	711.185	22096.078
110.00	3121.074	801.719	25896.004
110.00	4090.435	895.887	29598.977
110.00	5118.473	996.711	33227.145
110.00	6177.091	1104.957	36823.152
110.00	7181.198	1198.958	39113.145
110.00	8217.488	1275.768	41610.434
110.00	9211.717	1363.707	43993.656
110.00	10144.113	1464.231	46672.132
110.00	11008.454	1746.950	48427.627
120.00	-3171.578	39.517	92.361
120.00	-2858.113	50.364	645.704
120.00	-2521.811	62.194	410.157
120.00	-2181.734	74.943	666.128
120.00	-1837.107	88.148	615.610
120.00	-1538.611	104.095	1044.701
120.00	-1214.435	126.435	1240.140
120.00	-1178.784	177.708	1861.364
120.00	-511.196	832.771	14721.970
120.00	1408.785	998.604	18635.193
120.00	2389.679	1160.401	22686.133
120.00	3415.051	1314.955	26737.959
120.00	4493.453	1482.459	30718.587
120.00	5610.563	1656.965	34570.637
120.00	6575.081	1818.170	37577.438
120.00	7508.379	1963.197	40280.367
120.00	8476.626	2119.866	42884.277
120.00	9405.023	2275.253	45349.145
120.00	10477.055	2436.281	47671.957
120.00	11503.329	2592.619	49830.922
130.00	-3613.997	47.106	-1.741
130.00	-2583.434	61.785	147.907
130.00	-2547.920	78.637	318.833
130.00	-2507.381	97.555	510.799
130.00	-2461.499	118.698	724.423
130.00	-2409.677	142.573	961.000
130.00	-2351.365	169.275	1222.362
130.00	-2277.206	204.264	1556.221

130.00	-2126.717	873.159	3211.[illegible]
130.00	-1955.879	402.411	3554.[illegible]
130.00	-1477.566	578.497	5785.694
130.00	-960.330	781.424	7979.038
130.00	-184.011	985.687	11337.348
130.00	690.161	1238.479	15195.494
130.00	1658.676	1560.245	19467.689
130.00	2801.218	1766.130	23878.650
130.00	3952.707	2049.692	28356.934
130.00	5234.170	2329.685	[illegible]
130.00	6386.189	2579.990	[illegible]
130.00	7452.171	2834.311	[illegible]
130.00	8540.736	3167.730	[illegible]
130.00	9650.870	3535.576	[illegible]
130.00	10606.483	3998.717	[illegible]
130.00	11076.788	3663.575	[illegible]
130.00	12170.526	4.81.928	[illegible]
140.00	-2634.451	43.615	[illegible]
140.00	-2604.588	63.577	[illegible]
140.00	-2571.102	87.494	[illegible]
140.00	-2525.723	115.159	[illegible]
140.00	-2480.241	148.741	[illegible]
140.00	-2424.136	188.[illegible]	[illegible]
140.00	-2360.102	237.[illegible]	[illegible]
140.00	-2291.652	312.[illegible]	[illegible]
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140.00	-1945.[illegible]	559.[illegible]	[illegible]
140.00	[illegible]	[illegible]	[illegible]
140.00	-821.[illegible]	[illegible]	[illegible]
140.00	25.209	[illegible]	[illegible]
140.00	[illegible]	[illegible]	[illegible]
140.00	[illegible]	[illegible]	[illegible]
140.00	[illegible]	[illegible]	[illegible]
140.00	5971.209	[illegible]	[illegible]
140.00	6504.918	[illegible]	[illegible]
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140.00	14567.234	[illegible]	[illegible]
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150.00	-2659.774	26.740	-237.601
150.00	-2631.551	50.726	-106.468
150.00	-2596.125	82.127	51.297
150.00	-2552.097	121.999	235.587
150.00	-2498.504	169.743	461.147
150.00	-2435.051	226.690	714.298
150.00	-2359.609	292.421	1005.995
150.00	-2268.965	370.768	1349.342
150.00	-2144.598	476.857	1830.051
150.00	-1816.722	705.681	3272.256
150.00	-1274.806	1073.650	5638.348
150.00	-505.963	1608.773	8825.792
150.00	512.200	2264.762	12867.949
150.00	1932.640	3021.820	18296.217
150.00	3537.516	3873.315	23885.322
150.00	5341.074	4761.601	29598.805

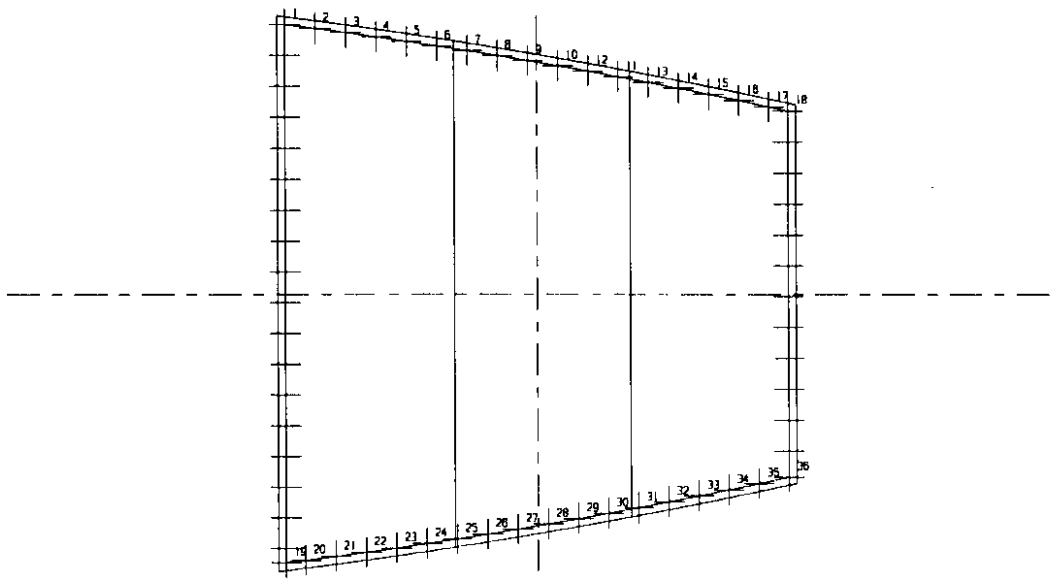
150.00	7183.055	5914.007	24784.045	170.00	41954.490	13017.357	814.868
150.00	9424.398	6564.312	28559.700	170.00	42465.249	446.046	-951.145
150.00	10819.791	7140.826	31382.910	170.00	42785.207	706.049	-1143.328
150.00	12214.967	7686.243	33944.070	170.00	43158.525	1016.414	-1326.478
150.00	14104.325	8623.679	37506.262	170.00	43608.864	1449.582	-1581.047
150.00	15931.654	9773.373	40482.820	170.00	43857.041	2069.804	-1864.700
150.00	17821.484	10048.276	41058.121	170.00	43793.784	3324.859	-2092.006
150.00	18793.840	10722.326	38850.848	170.00	43421.998	6175.065	-2439.587
150.00	21726.355	11374.251	38452.940	170.00	43333.776	13078.387	-3169.265
150.00	-2092.019	0.236	-399.381	170.00	43403.727	17048.178	-2850.782
150.00	-2667.914	22.758	-265.034	170.00	43680.919	18700.681	-3967.135
150.00	-2626.490	63.867	-111.122	170.00	44000.966	19097.057	-3995.248
150.00	-2870.480	184.066	100.918	170.00	45333.179	21460.398	-7617.754
150.00	-3408.879	294.385	249.785	170.00	46744.420	23505.674	-8343.7..
150.00	-3411.779	306.599	325.823	170.00	47134.874	24809.244	-7401.109
150.00	-2795.414	421.418	286.195	170.00	47333.288	25185.453	-7521.531
150.00	-2185.309	579.541	1838.831	170.00	46844.160	24101.113	2315.569
150.00	-2010.547	784.050	1765.207	170.00	45000.302	23086.284	2948.276
150.00	-1886.154	1151.898	2090.676	170.00	43036.466	22235.279	2841.140
150.00	-1..	1081.689	4274.189	170.00	3511.....	21320.238	5.....
150.00	7....	3603.914	10770.954	170.00	37851.941	9116.291	1121.1..
150.00	2....	4539.391	16062.208	170.00	4....	7.82....	8824....
150.00	4....	4347.161	21947.154	170.00	47367.4..	6.25....	....1....
150.00	-2....	5.58.630	26144.817	170.00	48004.4..	5771....	....1....
150.00	11....	6952.804	22140.080	170.00	47325....	4.78.078	5....1.96
150.00	9....	1256.490	26121.230	170.00	45.5.1..	....2....	2....1.13
150.00	-4....	13676.386	38674.501				
150.00	55	14416.052	46293.087				
150.00	18....	15736.478	41236.345				
150.00	-8....	16068.184	41768.750				
150.00	7....	17317.218	41160.172				
150.00	37....	17702.127	40762.773	170.00	24824.227	10047.221	
150.00	-4751....	18....	15 24.987	170.00	40140.869		
150.00	2....	17993.416	38207.238				
150.00	-2700.076	-5.727	-438.068				
150.00	-2700.176	-5.727	-438.068				
150.00	-2041.707	76.414	-320.183				
150.00	-1.26....	253.075	-97.387				
150.00	-2307.948	402.083	93.209				
150.00	-2194.824	763.111	255.485				
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150.00	16835.994	21359.646	15733.886				
150.00	19418.117	22192.648	19183.484				
150.00	22184.914	22756.686	21724.305				
150.00	25034.127	23110.086	22957.941				
150.00	27918.941	23118.799	23526.748				
150.00	30445.711	22733.492	24393.801				
150.00	32884.941	21918.330	25263.967				
150.00	35238.695	20826.793	25392.504				
150.00	37613.430	19446.348	24534.330				
150.00	39934.098	17886.336	22894.734				

Seccion por garganta de pila

Comprobacion a flexion esviada



1	-1.6900	1.8034
2	-0.5400	1.6416
3	0.6100	1.4440
4	1.6867	1.2259
5	-1.6900	1.6416
6	-0.5400	1.4440
7	0.6100	1.2259

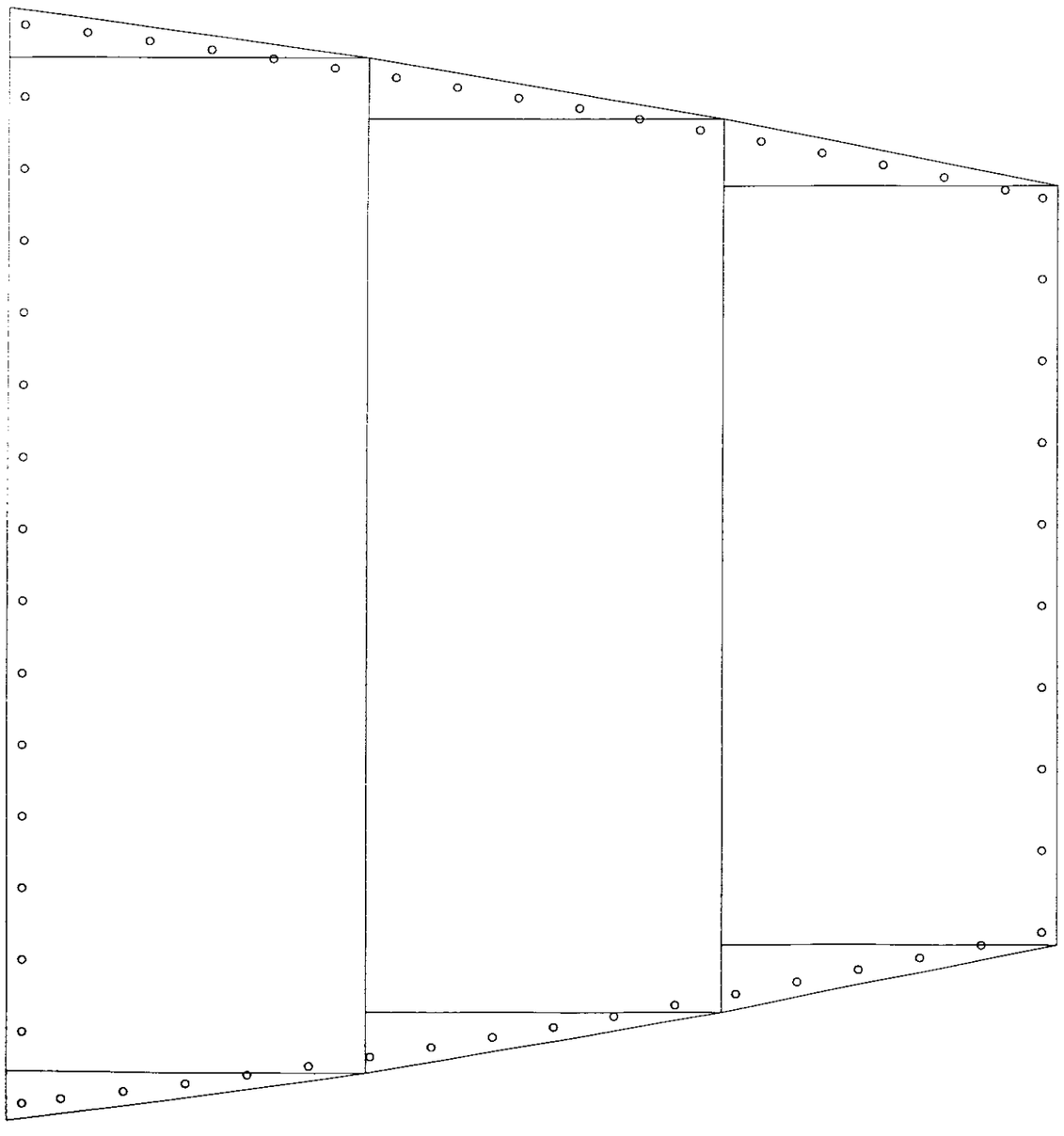


1	-1.6400	1.7468
2	-1.4417	1.7211
3	-1.2434	1.6944
4	-1.0454	1.6668
5	-0.8475	1.6379
6	-0.6497	1.6080
7	-0.4521	1.5772
8	-0.2546	1.5453
9	-0.0574	1.5124
10	0.1397	1.4784
11	0.5334	1.4074
12	0.3368	1.4434
13	0.7299	1.3704
14	0.9262	1.3323
15	1.1224	1.2932
16	1.3183	1.2531
17	1.5140	1.2119
18	1.7087	1.1696
19	-1.6400	-1.7468
20	-1.5156	-1.7308
21	-1.3174	-1.7045
22	-1.1192	-1.6771
23	-0.9213	-1.6487
24	-0.7234	-1.6193
25	-0.5258	-1.5888
26	-0.3283	-1.5573
27	-0.1309	-1.5248
28	0.0662	-1.4912
29	0.2632	-1.4566
30	0.4600	-1.4210
31	0.6566	-1.3843
32	0.8530	-1.3466
33	1.0493	-1.3079
34	1.2453	-1.2682
35	1.4411	-1.2274
36	1.6367	-1.1856

```
Puente sobre el Rio Ebro * PILA - 9 * (Secc. en garganta pila)
21000000. 3000. 51000. 0 1.50 1.15 19000000. 155760. 0. 1.15
hor
are
-1.6900  1.6416 -0.5400  1.6416 -0.5400 -1.6416 12 4
-0.5400  1.4440  0.6100  1.4440  0.6100 -1.4440 11 4
 0.6100  1.2259  1.6867  1.2259  1.6867 -1.2259 10 4
tri
-1.6900  1.8034 -0.5400  1.6416 -1.6900  1.6416 4
-0.5400  1.6416  0.6100  1.4440 -0.5400  1.4440 4
 0.6100  1.4440  1.6867  1.2259  0.6100  1.2259 4
-1.6900 -1.8034 -0.5400 -1.6416 -1.6900 -1.6416 4
-0.5400 -1.6416  0.6100 -1.4440 -0.5400 -1.4440 4
 0.6100 -1.4440  1.6867 -1.2259  0.6100 -1.2259 4
ace
line
-1.6400  1.7468 -1.6400 -1.7468 16 0.000491
 1.6367  1.1856  1.6367 -1.1856 10 0.000491
pun
   -1.6400     1.7468   0.000491
   -1.4417     1.7211   0.000491
   -1.2434     1.6944   0.000491
   -1.0454     1.6666   0.000491
   -0.8475     1.6379   0.000491
   -0.6497     1.6080   0.000491
   -0.4521     1.5772   0.000491
   -0.2546     1.5453   0.000491
   -0.0574     1.5124   0.000491
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    0.3366     1.4434   0.000491
    0.7299     1.3704   0.000491
    0.9262     1.3323   0.000491
    1.1224     1.2932   0.000491
    1.3183     1.2531   0.000491
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   -0.5258    -1.5888   0.000491
   -0.3283    -1.5573   0.000491
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    0.2632    -1.4566   0.000491
    0.4600    -1.4210   0.000491
    0.6566    -1.3843   0.000491
    0.8530    -1.3466   0.000491
    1.0493    -1.3079   0.000491
    1.2453    -1.2682   0.000491
    1.4411    -1.2274   0.000491
    1.6367    -1.1856   0.000491
pre
 0.0000  0.0000 0.0000000
res
-2.50 2.50 0.20 90.00 180.00 10.00
dib Garganta de Pila
a4 a4 1 8000. 1000. 1
cur
100. 2
110. 3
120. 4
130. 5
140. 6
150. 7
160. 8
esf
    6763.76    -547.86    4838.75 1
    2028.26     493.08    2810.25 2
    5901.11    -493.08    4945.91 3
    2566.22     493.08     460.94 4
    2725.79    -547.86    1942.32 5
    2718.22     547.86    1936.86 6
    2722.01       0.00    1939.59 7
    2722.01       0.00    1939.59 8
    2718.22     547.86    1936.86 1
    2725.79    -547.86    1942.32 2
    5901.12    -493.08    4945.91 3
    2566.22     493.08     460.94 4
fin
```

sobre el Rio Ebro * PILA - 9 * (Secc. en garganta pila)

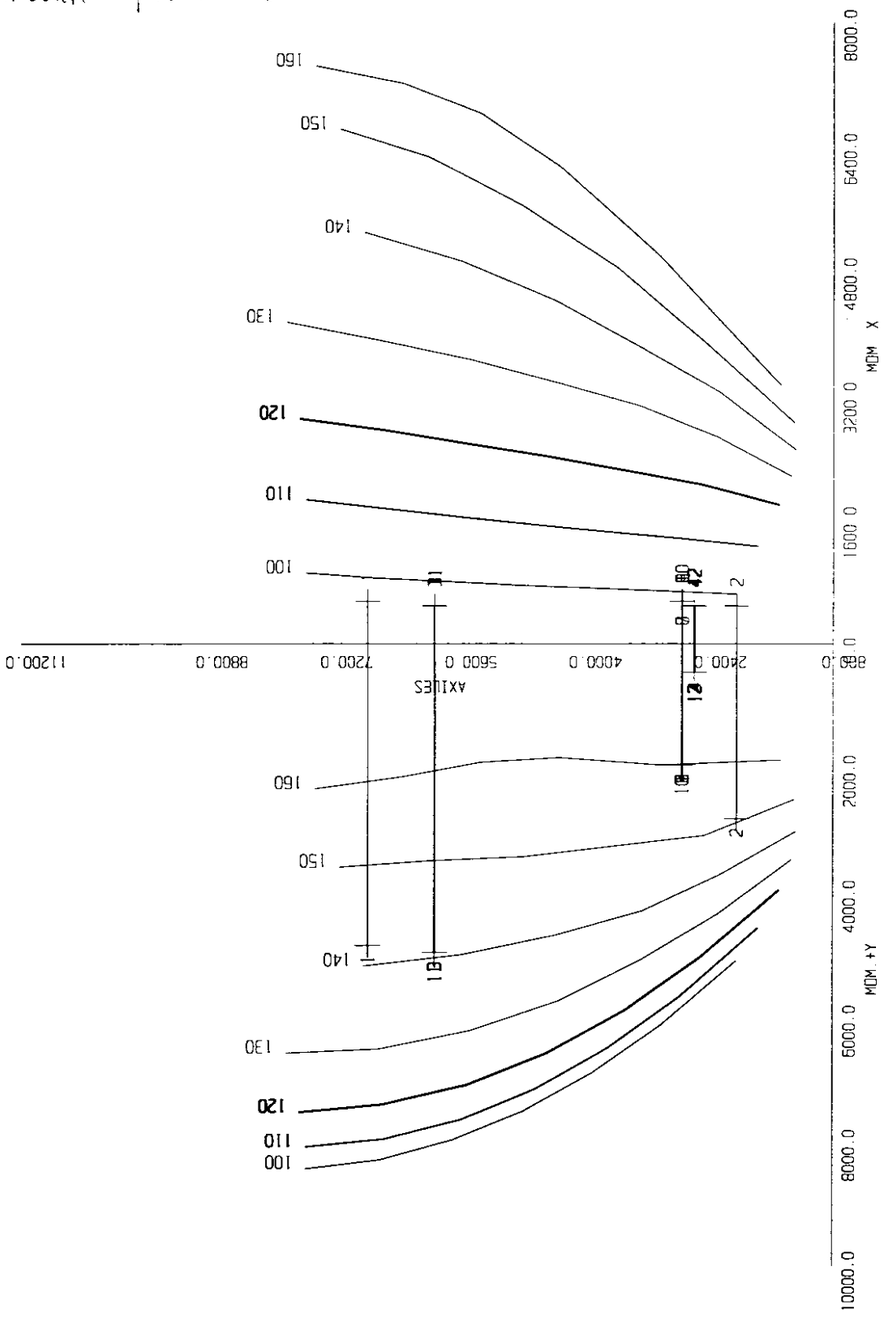
= 1/ 25



Puente sobre el Rio Ebro * PILA - 9 * (Secc. en garganta pila)

Garganta de Pila

ARMADURA φ25 A 0.10



Listado de resultados

Puente sobre el Rio Ebro * PILA - 9 * (Secc. en garganta pila

NUMERO DE ELEMENTOS	255	
NUMERO DE ELEMENTOS DE HORMIGON	192	
NUMERO DE ELEMENTOS DE ACERO	62	
NUMERO DE ELEMENTOS DE PRETENSADO	1	
MODULO ELASTICIDAD ACERO	21000000.	TN/M2
RESISTENCIA DEL HORMIGON	3000	TN/M2
RESISTENCIA DEL ACERO	51000	TN/M2
RESISTENCIA DEL PRETENSADO	185760	TN/M2
TENSION DEL PRETENSADO	0	TN/M2
MODULO DE ELASTICIDAD DEL PRETENSADO	[illegible]	[illegible]

AREA HORM.	10.364363	XCG	[illegible]	[illegible]	[illegible]
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MOM.INER. X	0.051540	MOM.INER. [illegible]	[illegible]	[illegible]	[illegible]
AREA PRET.	0.000000	XCG	[illegible]	[illegible]	[illegible]
MOM.INER. X	0.000000	MOM.INER. [illegible]	[illegible]	[illegible]	[illegible]

ELEMENTOS DE HORMIGON

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164	-1.4025	-1.7427	0.01162937
165	-1.5942	-1.7360	0.00581468
166	-1.1150	-1.7023	0.01162940
167	-1.4025	-1.7023	0.01162940
168	-1.5942	-1.6955	0.00581470
169	-0.8275	-1.6618	0.01162937
170	-1.1150	-1.6618	0.01162937
171	-1.4025	-1.6618	0.01162937
172	-1.5942	-1.6551	0.00581468
173	-0.4442	-1.6087	0.00710125
174	-0.2525	-1.5675	0.01420253
175	-0.4442	-1.5593	0.00710126
176	0.0350	-1.5181	0.01420249
177	-0.2525	-1.5181	0.01420249
178	-0.4442	-1.5099	0.00710125
179	0.3225	-1.4687	0.01420249
180	0.0350	-1.4687	0.01420249
181	-0.2525	-1.4687	0.01420249
182	-0.4442	-1.4605	0.00710125
183	0.6997	-1.4077	0.00733839
184	0.8792	-1.3622	0.01467677
185	0.6997	-1.3531	0.00733839
186	1.1484	-1.3077	0.01467674
187	0.8792	-1.3077	0.01467674
188	0.6997	-1.2986	0.00733837
189	1.4175	-1.2532	0.01467677
190	1.1484	-1.2532	0.01467677
191	0.8792	-1.2532	0.01467677
192	0.6997	-1.2441	0.00733839

ELEMENTOS DE ACERO PASIVO

NUMERO	X	Y	AREA
193	-1.6400	1.7468	0.00049100
194	-1.6400	1.5139	0.00049100
195	-1.6400	1.2810	0.00049100
196	-1.6400	1.0481	0.00049100
197	-1.6400	0.8152	0.00049100
198	-1.6400	0.5823	0.00049100
199	-1.6400	0.3494	0.00049100
200	-1.6400	0.1165	0.00049100
201	-1.6400	-0.1165	0.00049100
202	-1.6400	-0.3494	0.00049100
203	-1.6400	-0.5823	0.00049100
204	-1.6400	-0.8152	0.00049100
205	-1.6400	-1.0481	0.00049100
206	-1.6400	-1.2810	0.00049100
207	-1.6400	-1.5139	0.00049100
208	-1.6400	-1.7468	0.00049100
209	1.6367	1.1856	0.00049100
210	1.6367	0.9221	0.00049100
211	1.6367	0.6587	0.00049100
212	1.6367	0.3952	0.00049100
213	1.6367	0.1317	0.00049100
214	1.6367	-0.1317	0.00049100
215	1.6367	-0.3952	0.00049100
216	1.6367	-0.6587	0.00049100
217	1.6367	-0.9221	0.00049100
218	1.6367	-1.1856	0.00049100
219	-1.6400	1.7468	0.00049100
220	-1.4417	1.7211	0.00049100
221	-1.2434	1.6944	0.00049100
222	-1.0454	1.6666	0.00049100
223	-0.8475	1.6379	0.00049100
224	-0.6497	1.6080	0.00049100
225	-0.4521	1.5772	0.00049100
226	-0.2546	1.5453	0.00049100
227	-0.0574	1.5124	0.00049100
228	0.1397	1.4784	0.00049100
229	0.5334	1.4074	0.00049100
230	0.3366	1.4434	0.00049100
231	0.7299	1.3704	0.00049100
232	0.9262	1.3323	0.00049100
233	1.1224	1.2932	0.00049100
234	1.3183	1.2531	0.00049100
235	1.5140	1.2119	0.00049100
236	1.6367	1.1856	0.00049100
237	-1.6400	-1.7468	0.00049100
238	-1.5156	-1.7308	0.00049100
239	-1.3174	-1.7045	0.00049100
240	-1.1192	-1.6771	0.00049100
241	-0.9213	-1.6487	0.00049100
242	-0.7234	-1.6193	0.00049100
243	-0.5258	-1.5888	0.00049100
244	-0.3283	-1.5573	0.00049100
245	-0.1309	-1.5248	0.00049100
246	0.0662	-1.4912	0.00049100
247	0.2632	-1.4566	0.00049100
248	0.4600	-1.4210	0.00049100
249	0.6566	-1.3843	0.00049100
250	0.8530	-1.3466	0.00049100

251	1.0493	-1.3079	0.00049100
252	1.2453	-1.2682	0.00049100
253	1.4411	-1.2274	0.00049100
254	1.6367	-1.1856	0.00049100

ELEMENTOS DE PRETENSADO

NUMERO	X	Y	AREA
255	0.0000	0.0000	0.00000000

RESULTADOS

ALFA	N	MX	MY
90.00	-1346.753	4.388	74.338
90.00	-1295.837	5.848	162.983
90.00	-1232.562	7.048	272.009
90.00	-1154.292	9.454	404.439
90.00	-1059.014	12.502	562.237
90.00	-738.673	15.979	1101.881
90.00	32.858	18.878	2351.770
90.00	1098.046	21.311	3945.571
90.00	2168.409	22.042	5319.807
90.00	3169.307	22.046	6376.115
90.00	4041.725	24.031	7114.391
90.00	4917.227	24.675	7705.804
90.00	5813.609	22.866	8156.615
90.00	6728.410	24.760	8457.943
90.00	7651.973	23.241	8605.427
90.00	8642.828	21.603	8529.551
90.00	9673.772	18.728	8252.094
90.00	10693.124	15.752	7848.603
90.00	11704.041	14.144	7312.458
90.00	12717.348	11.651	6627.653
90.00	13728.367	10.365	5793.520
90.00	14694.191	9.237	4831.735
90.00	15412.496	7.969	4022.061
90.00	15957.606	6.920	3406.910
90.00	16381.493	6.036	2928.013
100.00	-1321.944	30.119	117.218
100.00	-1280.678	52.368	187.859
100.00	-1218.702	67.535	293.034
100.00	-1143.538	84.920	418.251
100.00	-1033.086	123.415	600.521
100.00	-720.525	276.631	1115.748
100.00	-46.365	462.734	2189.104
100.00	935.851	584.096	3649.287
100.00	2029.146	642.423	5079.975
100.00	2992.951	685.139	6122.395
100.00	3869.064	721.685	6884.020
100.00	4761.905	753.434	7507.706
100.00	5672.651	801.708	7979.294
100.00	6601.601	847.334	8298.063
100.00	7558.777	915.036	8437.098
100.00	8557.648	980.375	8368.497
100.00	9590.375	992.708	8116.079
100.00	10614.542	1008.210	7727.692
100.00	11632.699	1024.749	7200.755
100.00	12655.241	1049.758	6517.517
100.00	13674.535	1069.980	5684.468
100.00	14637.777	1022.453	4788.374
100.00	15474.338	888.986	3937.807
100.00	16015.175	752.042	3329.670
100.00	16434.645	645.760	2857.463

| | | |

170.00	16433.137	2467.305	986.859

PILAS 1 a 6

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 456 extremo dorsal P-1

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	1884.63	0.00	-307.51
292 FUER X MIN envolvente (ELS) (tota	939.23	0.00	232.07
293 FUER Y MAX envolvente (ELS) (tota	1140.47	-0.01	406.82
294 FUER Y MIN envolvente (ELS) (tota	1146.23	0.01	-406.82
295 FUER Z MAX envolvente (ELS) (tota	1488.64	-381.79	0.00
296 FUER Z MIN envolvente (ELS) (tota	1143.72	175.18	0.00
297 MOME X MAX envolvente (ELS) (tota	1140.46	0.00	307.51
298 MOME X MIN envolvente (ELS) (tota	1146.24	0.00	-307.51
299 MOME Y MAX envolvente (ELS) (tota	1326.28	754.79	0.00
300 MOME Y MIN envolvente (ELS) (tota	1262.56	-846.16	0.00
301 MOME Z MAX envolvente (ELS) (tota	1140.47	-0.01	406.82
302 MOME Z MIN envolvente (ELS) (tota	1146.23	0.01	-406.82
511 FUER X MAX envolvente (ELU) (tota	2826.95	0.00	-461.27
512 FUER X MIN envolvente (ELU) (tota	791.44	0.01	348.10
513 FUER Y MAX envolvente (ELU) (tota	1025.13	-0.01	564.11
514 FUER Y MIN envolvente (ELU) (tota	1032.90	0.01	-564.11
515 FUER Z MAX envolvente (ELU) (tota	1615.54	-572.69	0.00
516 FUER Z MIN envolvente (ELU) (tota	1029.57	262.78	0.00
517 MOME X MAX envolvente (ELU) (tota	1024.68	0.00	461.27
518 MOME X MIN envolvente (ELU) (tota	1033.35	0.00	-461.27
519 MOME Y MAX envolvente (ELU) (tota	1372.02	1132.19	0.00
520 MOME Y MIN envolvente (ELU) (tota	1276.43	-1269.24	0.00
521 MOME Z MAX envolvente (ELU) (tota	1025.13	-0.01	564.11
522 MOME Z MIN envolvente (ELU) (tota	1032.90	0.01	-564.11

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 457 extremo dorsal P-2

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	1990.72	0.00	321.77
292 FUER X MIN envolvente (ELS) (tota	977.56	0.00	-289.59
293 FUER Y MAX envolvente (ELS) (tota	1182.33	0.01	421.08
294 FUER Y MIN envolvente (ELS) (tota	1181.38	-0.01	-421.08
295 FUER Z MAX envolvente (ELS) (tota	1241.21	-303.03	321.77
296 FUER Z MIN envolvente (ELS) (tota	1182.22	303.00	0.00
297 MOME X MAX envolvente (ELS) (tota	1182.33	0.00	321.77
298 MOME X MIN envolvente (ELS) (tota	1181.38	0.00	-321.77
299 MOME Y MAX envolvente (ELS) (tota	1383.18	923.00	0.00
300 MOME Y MIN envolvente (ELS) (tota	1383.19	-923.02	0.00
301 MOME Z MAX envolvente (ELS) (tota	1182.33	0.01	421.08
302 MOME Z MIN envolvente (ELS) (tota	1181.38	-0.01	-421.08
511 FUER X MAX envolvente (ELU) (tota	2986.08	0.00	482.66
512 FUER X MIN envolvente (ELU) (tota	828.14	0.00	-434.39
513 FUER Y MAX envolvente (ELU) (tota	1064.31	0.02	583.36
514 FUER Y MIN envolvente (ELU) (tota	1063.03	-0.02	-583.36
515 FUER Z MAX envolvente (ELU) (tota	1064.25	-454.55	0.00
516 FUER Z MIN envolvente (ELU) (tota	1064.22	454.49	0.00
517 MOME X MAX envolvente (ELU) (tota	1064.38	0.00	482.66
518 MOME X MIN envolvente (ELU) (tota	1062.96	0.00	-482.66
519 MOME Y MAX envolvente (ELU) (tota	1436.56	1384.51	0.00
520 MOME Y MIN envolvente (ELU) (tota	1436.58	-1384.53	0.00
521 MOME Z MAX envolvente (ELU) (tota	1064.31	0.02	583.36
522 MOME Z MIN envolvente (ELU) (tota	1063.03	-0.02	-583.36

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 458 extremo dorsal P-3

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	1983.58	0.00	-317.63
292 FUER X MIN envolvente (ELS) (tota	965.03	0.00	285.87
293 FUER Y MAX envolvente (ELS) (tota	1170.34	0.01	416.94
294 FUER Y MIN envolvente (ELS) (tota	1170.38	-0.01	-416.94
295 FUER Z MAX envolvente (ELS) (tota	1170.74	-336.19	0.00
296 FUER Z MIN envolvente (ELS) (tota	1228.10	336.26	-317.63
297 MOME X MAX envolvente (ELS) (tota	1170.38	0.00	-317.63
298 MOME X MIN envolvente (ELS) (tota	1170.34	0.00	317.63
299 MOME Y MAX envolvente (ELS) (tota	1375.72	945.44	0.00
300 MOME Y MIN envolvente (ELS) (tota	1375.72	-945.41	0.00
301 MOME Z MAX envolvente (ELS) (tota	1170.34	0.01	416.94
302 MOME Z MIN envolvente (ELS) (tota	1170.38	-0.01	-416.94
511 FUER X MAX envolvente (ELU) (tota	2975.36	0.00	-476.45
512 FUER X MIN envolvente (ELU) (tota	815.58	0.00	428.80
513 FUER Y MAX envolvente (ELU) (tota	1053.30	0.01	577.77
514 FUER Y MIN envolvente (ELU) (tota	1053.35	-0.01	-577.77
515 FUER Z MAX envolvente (ELU) (tota	1053.89	-504.29	0.00
516 FUER Z MIN envolvente (ELU) (tota	1053.90	504.39	0.00
517 MOME X MAX envolvente (ELU) (tota	1053.36	0.00	-476.45
518 MOME X MIN envolvente (ELU) (tota	1053.30	0.00	476.45
519 MOME Y MAX envolvente (ELU) (tota	1431.59	1418.16	0.00
520 MOME Y MIN envolvente (ELU) (tota	1431.58	-1418.12	0.00
521 MOME Z MAX envolvente (ELU) (tota	1053.30	0.01	577.77
522 MOME Z MIN envolvente (ELU) (tota	1053.35	-0.01	-577.77

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 459 extremo dorsal P-4

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	1984.96	0.00	-317.06
292 FUER X MIN envolvente (ELS) (tota	961.74	0.00	330.04
293 FUER Y MAX envolvente (ELS) (tota	1109.08	0.00	416.37
294 FUER Y MIN envolvente (ELS) (tota	1167.99	0.00	-416.37
295 FUER Z MAX envolvente (ELS) (tota	1168.23	-313.89	0.00
296 FUER Z MIN envolvente (ELS) (tota	1228.07	313.94	-317.06
297 MOME X MAX envolvente (ELS) (tota	1167.73	0.00	317.06
298 MOME X MIN envolvente (ELS) (tota	1167.98	0.00	-317.06
299 MOME Y MAX envolvente (ELS) (tota	1373.44	934.39	0.00
300 MOME Y MIN envolvente (ELS) (tota	1373.44	-934.36	0.00
301 MOME Z MAX envolvente (ELS) (tota	1109.08	0.00	416.37
302 MOME Z MIN envolvente (ELS) (tota	1167.99	0.00	-416.37
511 FUER X MAX envolvente (ELU) (tota	2977.43	0.00	-475.58
512 FUER X MIN envolvente (ELU) (tota	811.97	0.00	495.06
513 FUER Y MAX envolvente (ELU) (tota	1050.89	0.00	577.00
514 FUER Y MIN envolvente (ELU) (tota	1051.25	0.00	-577.00
515 FUER Z MAX envolvente (ELU) (tota	1051.64	-470.84	0.00
516 FUER Z MIN envolvente (ELU) (tota	1051.64	470.91	0.00
517 MOME X MAX envolvente (ELU) (tota	1050.88	0.00	475.58
518 MOME X MIN envolvente (ELU) (tota	1051.26	0.00	-475.58
519 MOME Y MAX envolvente (ELU) (tota	1429.51	1401.58	0.00
520 MOME Y MIN envolvente (ELU) (tota	1429.51	-1401.55	0.00
521 MOME Z MAX envolvente (ELU) (tota	1050.89	0.00	577.00
522 MOME Z MIN envolvente (ELU) (tota	1051.25	0.00	-577.00

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 460 extremo dorsal P-3

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	2010.38	0.00	323.38
292 FUER X MIN envolvente (ELS) (tota	969.41	0.06	-335.73
293 FUER Y MAX envolvente (ELS) (tota	1190.37	-0.10	422.69
294 FUER Y MIN envolvente (ELS) (tota	1122.58	0.10	-422.69
295 FUER Z MAX envolvente (ELS) (tota	1254.20	-257.29	323.38
296 FUER Z MIN envolvente (ELS) (tota	1190.47	257.24	0.00
297 MOME X MAX envolvente (ELS) (tota	1190.36	0.00	323.38
298 MOME X MIN envolvente (ELS) (tota	1189.85	0.00	-323.38
299 MOME Y MAX envolvente (ELS) (tota	1392.08	901.05	0.00
300 MOME Y MIN envolvente (ELS) (tota	1392.08	-901.08	0.00
301 MOME Z MAX envolvente (ELS) (tota	1190.37	-0.10	422.69
302 MOME Z MIN envolvente (ELS) (tota	1122.58	0.10	-422.69
511 FUER X MAX envolvente (ELU) (tota	3015.56	0.00	485.07
512 FUER X MIN envolvente (ELU) (tota	811.87	0.09	-503.60
513 FUER Y MAX envolvente (ELU) (tota	1071.46	-0.16	585.53
514 FUER Y MIN envolvente (ELU) (tota	1070.73	0.16	-585.53
515 FUER Z MAX envolvente (ELU) (tota	1071.68	-385.93	0.00
516 FUER Z MIN envolvente (ELU) (tota	1071.64	385.85	0.00
517 MOME X MAX envolvente (ELU) (tota	1071.48	0.00	485.07
518 MOME X MIN envolvente (ELU) (tota	1070.71	0.00	-485.07
519 MOME Y MAX envolvente (ELU) (tota	1445.46	1351.58	0.00
520 MOME Y MIN envolvente (ELU) (tota	1445.47	-1351.62	0.00
521 MOME Z MAX envolvente (ELU) (tota	1071.46	-0.16	585.53
522 MOME Z MIN envolvente (ELU) (tota	1070.73	0.16	-585.53

proc Viaducto sobre el rio Ebro

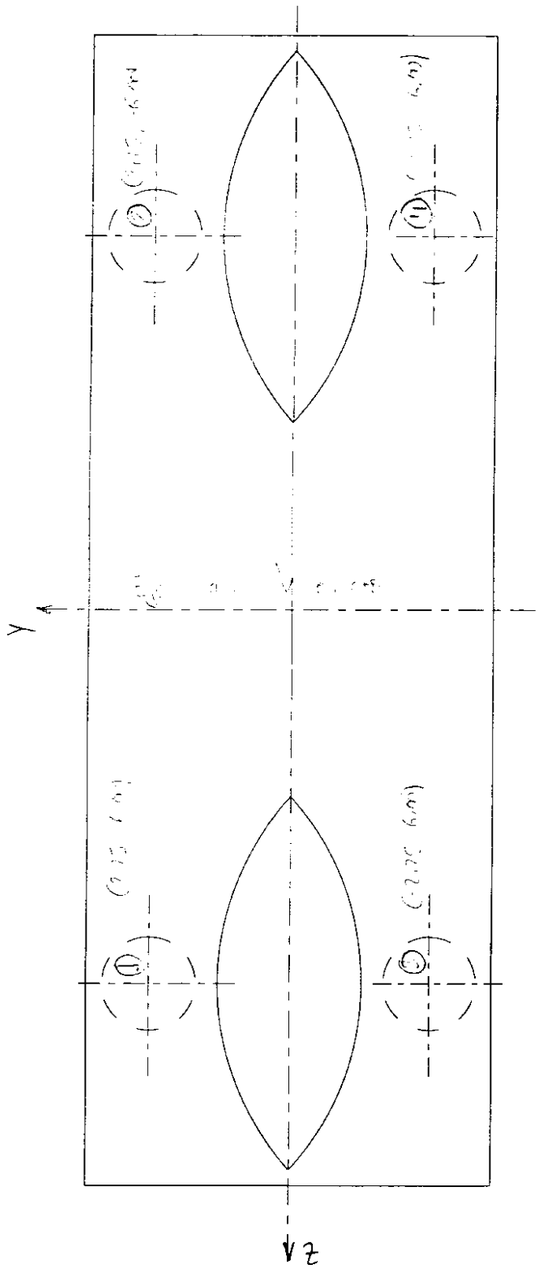
Esfuerzos de la barra 461 extremo dorsal P-6

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	1931.56	0.00	-294.98
292 FUER X MIN envolvente (ELS) (tota	848.14	-0.03	310.17
293 FUER Y MAX envolvente (ELS) (tota	1002.63	-0.10	394.29
294 FUER Y MIN envolvente (ELS) (tota	1091.90	0.10	-394.29
295 FUER Z MAX envolvente (ELS) (tota	1210.27	172.61	0.00
296 FUER Z MIN envolvente (ELS) (tota	1197.63	-312.68	0.00
297 MOME X MAX envolvente (ELS) (tota	1091.84	0.00	-294.98
298 MOME X MIN envolvente (ELS) (tota	1091.36	0.00	294.98
299 MOME Y MAX envolvente (ELS) (tota	1280.36	844.35	0.00
300 MOME Y MIN envolvente (ELS) (tota	1280.40	-844.47	0.00
301 MOME Z MAX envolvente (ELS) (tota	1002.63	-0.10	394.29
302 MOME Z MIN envolvente (ELS) (tota	1091.90	0.10	-394.29
511 FUER X MAX envolvente (ELU) (tota	2897.34	0.00	-442.46
512 FUER X MIN envolvente (ELU) (tota	682.74	-0.04	465.25
513 FUER Y MAX envolvente (ELU) (tota	982.03	-0.15	547.19
514 FUER Y MIN envolvente (ELU) (tota	982.85	0.15	-547.19
515 FUER Z MAX envolvente (ELU) (tota	1225.93	258.92	0.00
516 FUER Z MIN envolvente (ELU) (tota	1206.97	-469.03	0.00
517 MOME X MAX envolvente (ELU) (tota	982.79	0.00	-442.46
518 MOME X MIN envolvente (ELU) (tota	982.09	0.00	442.46
519 MOME Y MAX envolvente (ELU) (tota	1331.08	1266.52	0.00
520 MOME Y MIN envolvente (ELU) (tota	1331.14	-1266.70	0.00
521 MOME Z MAX envolvente (ELU) (tota	982.03	-0.15	547.19
522 MOME Z MIN envolvente (ELU) (tota	982.85	0.15	-547.19

Armadura

PILAS 1 o 6




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Pila-
2.50 721.5 1.50
  2.25  6.00
  2.25 -6.00
 -2.25  6.00
 -2.25 -6.00
barr
456 1 457 1 458 1 459 1 460 1 461 1
hipo
291 a 302
```

proc Viaducto sobre el rio Ebro

BARRA 456 NUDO 30

proc Viaducto sobre el rio Ebro

Pila- 1

Pilote mas cargado N= 693.13 SIG= 39.22 hip. 291 pilote 4

Pilote menos cargado N= 385.39 SIG= 21.81

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	609.94	609.94	693.13	693.13	6.68
292	444.97	444.97	385.39	385.39	3.61
293	524.08	524.08	406.91	406.91	12.04
294	408.35	408.35	525.52	525.52	12.04
295	533.20	571.87	533.20	571.87	8.22
296	475.73	456.88	475.73	456.88	5.11
297	507.09	507.09	423.89	423.89	6.68
298	425.34	425.34	508.53	508.53	6.68
299	544.57	479.32	544.57	479.32	2.82
300	458.03	534.00	458.03	534.00	6.55
301	524.08	524.08	406.91	406.91	12.04
302	408.35	408.35	525.52	525.52	12.04

proc Viaducto sobre el rio Ebro

BARRA 457 NUDO 56

proc Viaducto sobre el rio Ebro

Pila- 2

Pilote mas cargado N= 721.58 SIG= 40.83 hip. 291 pilote 2

Pilote menos cargado N= 385.59 SIG= 21.82

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	721.58	721.58	634.53	634.53	6.99
292	385.59	385.59	463.94	463.94	6.30
293	536.47	536.47	415.44	415.44	12.35
294	415.21	415.21	536.23	536.23	12.35
295	518.59	549.81	431.54	462.77	10.01
296	491.54	460.32	491.54	460.32	7.16
297	519.48	519.48	432.43	432.43	6.99
298	432.20	432.20	519.24	519.24	6.99
299	566.34	486.00	566.34	486.00	4.11
300	486.00	566.34	486.00	566.34	4.11
301	536.47	536.47	415.44	415.44	12.35
302	415.21	415.21	536.23	536.23	12.35

proc Viaducto sobre el rio Ebro

BARRA 458 NUDO 82

proc Viaducto sobre el rio Ebro

Pila- 3

Pilote mas cargado N= 719.23 SIG= 40.70 hip. 291 pilote 4

Pilote menos cargado N= 382.97 SIG= 21.67

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	633.30	633.30	719.23	719.23	6.91
292	460.30	460.30	382.97	382.97	6.21
293	532.91	532.91	413.01	413.01	12.26
294	413.02	413.02	532.92	532.92	12.26
295	455.85	490.27	455.85	490.27	7.68
296	461.64	427.22	547.57	513.15	10.33
297	430.01	430.01	515.94	515.94	6.91
298	515.93	515.93	430.00	430.00	6.91
299	565.56	483.05	565.56	483.05	4.46
300	483.05	565.55	483.05	565.55	4.46
301	532.91	532.91	413.01	413.01	12.26
302	413.02	413.02	532.92	532.92	12.26

proc Viaducto sobre el rio Ebro

BARRA 459 NUDO 108

proc Viaducto sobre el rio Ebro

Pila- 4

Pilote mas cargado N= 719.50 SIG= 40.72 hip. 291 pilote 4

Pilote menos cargado N= 374.57 SIG= 21.20

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	633.73	633.73	719.50	719.50	6.89
292	467.05	467.05	374.57	374.57	8.61
293	517.52	517.52	397.77	397.77	12.25
294	412.50	412.50	532.25	532.25	12.25
295	456.30	488.57	456.30	488.57	7.33
296	460.64	428.37	546.42	514.14	10.06
297	515.19	515.19	429.42	429.42	6.89
298	429.48	429.48	515.26	515.26	6.89
299	564.45	483.01	564.45	483.01	4.29
300	483.02	564.45	483.02	564.45	4.29
301	517.52	517.52	397.77	397.77	12.25
302	412.50	412.50	532.25	532.25	12.25

proc Viaducto sobre el rio Ebro

BARRA 460 NUDO 134

proc Viaducto sobre el rio Ebro

Pila- 5

Pilote mas cargado N= 726.71 SIG= 41.12 hip. 291 pilote 1

Pilote menos cargado N= 375.71 SIG= 21.26

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	726.71	726.71	639.23	639.23	7.03
292	375.72	375.71	469.74	469.74	8.74
293	538.69	538.70	417.23	417.24	12.39
294	400.29	400.28	521.76	521.75	12.39
295	524.26	551.08	436.77	463.60	9.55
296	491.40	464.58	491.40	464.58	6.46
297	521.71	521.71	434.22	434.22	7.03
298	434.09	434.09	521.58	521.58	7.03
299	567.51	489.28	567.51	489.28	3.78
300	489.28	567.51	489.28	567.51	3.78
301	538.69	538.70	417.23	417.24	12.39
302	400.29	400.28	521.76	521.75	12.39

proc Viaducto sobre el rio Ebro

BARRA 461 NUDO 160

proc Viaducto sobre el rio Ebro

Pila- 6

Pilote mas cargado N= 703.17 SIG= 39.79 hip. 291 pilote 3

Pilote menos cargado N= 348.85 SIG= 19.74

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	623.37	623.37	703.17	703.17	6.41
292	435.96	435.97	348.85	348.86	8.18
293	487.92	487.93	374.14	374.15	11.77
294	396.47	396.46	510.24	510.23	11.77
295	486.45	479.43	486.45	479.43	8.84
296	469.28	490.28	469.28	490.28	6.07
297	413.43	413.43	493.23	493.23	6.41
298	493.12	493.12	413.32	413.32	6.41
299	536.92	464.01	536.92	464.01	3.05
300	464.02	536.93	464.02	536.93	3.06
301	487.92	487.93	374.14	374.15	11.77
302	396.47	396.46	510.24	510.23	11.77

Pila-
2.50 974.0 1.50
  2.25 6.00
  2.25 -6.00
 -2.25 6.00
 -2.25 -6.00
barr
456 1 457 1 458 1 459 1 460 1 461 1
hipo
511 a 522

proc Viaducto sobre el rio Ebro

BARRA 456 NUDO 30

proc Viaducto sobre el rio Ebro

Pila- 1

Pilote mas cargado N= 1012.63 SIG= 57.30 hip. 511 pilote 4

Pilote menos cargado N= 396.67 SIG= 22.45

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	887.84	887.84	1012.63	1012.63	10.03
512	486.05	486.05	396.67	396.67	5.41
513	581.42	581.42	418.14	418.14	17.06
514	420.09	420.09	583.36	583.36	17.06
515	618.39	676.39	618.39	676.39	12.33
516	515.04	486.75	515.04	486.75	7.67
517	562.06	562.06	437.28	437.28	10.03
518	439.44	439.44	564.23	564.23	10.03
519	635.44	537.57	635.44	537.57	4.22
520	505.63	619.59	505.63	619.59	9.83
521	581.42	581.42	418.14	418.14	17.06
522	420.09	420.09	583.36	583.36	17.06

proc Viaducto sobre el rio Ebro

BARRA 457 NUDO 56

proc Viaducto sobre el rio Ebro

Pila- 2

Pilote mas cargado N= 1055.31 SIG= 59.72 hip. 511 pilote 2

Pilote menos cargado N= 391.78 SIG= 22.17

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	1055.31	1055.31	924.73	924.73	10.49
512	391.78	391.78	509.29	509.29	9.44
513	593.82	593.82	425.34	425.33	17.48
514	425.01	425.02	593.50	593.50	17.48
515	486.15	532.98	486.15	532.98	10.75
516	532.97	486.14	532.97	486.14	10.75
517	574.88	574.88	444.31	444.31	10.49
518	443.95	443.95	574.53	574.53	10.49
519	662.90	542.38	662.90	542.38	6.17
520	542.38	662.90	542.38	662.90	6.17
521	593.82	593.82	425.34	425.33	17.48
522	425.01	425.02	593.50	593.50	17.48

proc Viaducto sobre el rio Ebro

BARRA 458 NUDO 82

proc Viaducto sobre el rio Ebro

Pila- 3

Pilote mas cargado N= 1051.79 SIG= 59.52 hip. 511 pilote 4

Pilote menos cargado N= 389.39 SIG= 22.04

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	922.89	922.89	1051.79	1051.79	10.36
512	505.40	505.40	389.39	389.39	9.32
513	590.31	590.31	423.34	423.34	17.36
514	423.35	423.35	590.32	590.32	17.36
515	481.16	532.78	481.16	532.78	11.52
516	532.79	481.16	532.79	481.16	11.52
517	442.39	442.39	571.29	571.29	10.36
518	571.27	571.27	442.38	442.38	10.36
519	663.27	539.52	663.27	539.52	6.69
520	539.52	663.27	539.52	663.27	6.69
521	590.31	590.31	423.34	423.34	17.36
522	423.35	423.35	590.32	590.32	17.36

proc Viaducto sobre el rio Ebro

BARRA 459 NUDO 108

proc Viaducto sobre el rio Ebro

Pila- 4

Pilote mas cargado N= 1052.19 SIG= 59.54 hip. 511 pilote 4

Pilote menos cargado N= 377.13 SIG= 21.34

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	923.53	923.53	1052.19	1052.19	10.34
512	515.86	515.86	377.13	377.13	12.92
513	589.60	589.60	422.84	422.84	17.34
514	422.93	422.93	589.69	589.69	17.34
515	482.21	530.61	482.21	530.61	11.00
516	530.62	482.20	530.62	482.20	11.00
517	570.55	570.55	441.89	441.89	10.34
518	441.99	441.99	570.65	570.65	10.34
519	661.96	539.80	661.96	539.80	6.44
520	539.80	661.96	539.80	661.96	6.43
521	589.60	589.60	422.84	422.84	17.34
522	422.93	422.93	589.69	589.69	17.34

proc Viaducto sobre el rio Ebro

BARRA 460 NUDO 134

proc Viaducto sobre el rio Ebro

Pila- 5

Pilote mas cargado N= 1063.00 SIG= 60.15 hip. 511 pilote 1

Pilote menos cargado N= 375.95 SIG= 21.27

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	1063.00	1063.00	931.78	931.78	10.55
512	375.95	375.95	516.99	516.98	13.11
513	595.89	595.91	426.82	426.84	17.53
514	426.65	426.64	595.72	595.71	17.53
515	491.30	531.54	491.30	531.54	9.69
516	531.53	491.30	531.53	491.30	9.69
517	576.98	576.98	445.76	445.76	10.55
518	445.56	445.56	576.79	576.79	10.55
519	663.54	546.19	663.54	546.19	5.66
520	546.19	663.54	546.19	663.54	5.66
521	595.89	595.91	426.82	426.84	17.53
522	426.65	426.64	595.72	595.71	17.53

proc Viaducto sobre el rio Ebro

BARRA 461 NUDO 160

proc Viaducto sobre el rio Ebro

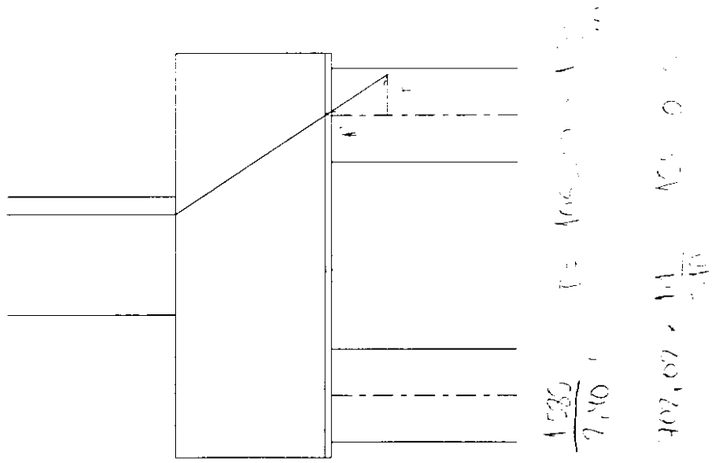
Pila- 6

Pilote mas cargado N= 1027.69 SIG= 58.16 hip. 511 pilote 3

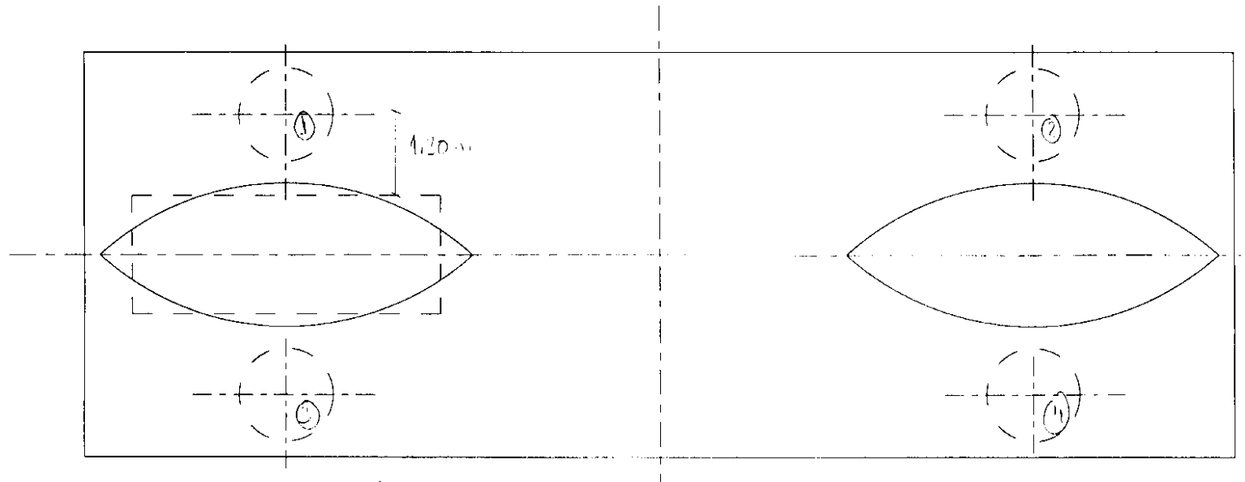
Pilote menos cargado N= 348.85 SIG= 19.74

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	907.99	907.99	1027.69	1027.69	9.62
512	479.52	479.52	348.85	348.85	12.27
513	568.35	568.36	409.65	409.67	16.69
514	409.87	409.86	568.57	568.55	16.69
515	555.24	544.72	555.24	544.72	13.27
516	529.49	560.99	529.49	560.99	9.10
517	429.35	429.35	549.05	549.05	9.62
518	548.87	548.87	429.17	429.17	9.62
519	630.95	521.59	630.95	521.59	4.58
520	521.59	630.97	521.59	630.97	4.58
521	568.35	568.36	409.65	409.67	16.69
522	409.87	409.86	568.57	568.55	16.69



Comprobacion a cortante



$V_{d2} \leq 3 \cdot b_2 \cdot d_2 \left(1 - \frac{1}{3 \cdot 1}\right)$ [illegible]

[illegible] $= 6{,}50$ m $\quad d_2 = 2{,}40$ m

[illegible] $= \sqrt{\frac{250}{1{,}50}} \cdot 1 = 64{,}55$ kg/cm²

$3 \cdot 6{,}50 \cdot 2{,}40 \left(1 - \frac{1{,}30}{3 \cdot 2{,}40}\right)$ [illegible]

$V_{d2} =$ [illegible] $<$ [illegible]

PILA 7

Esfuerzos

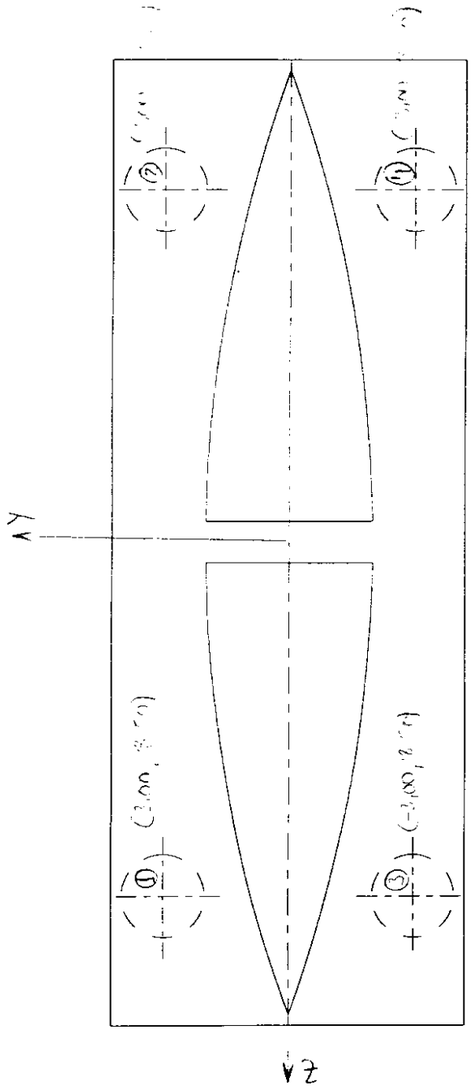
Esfuerzos de la barra 462 extremo dorsal P-7

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	4078.80	0.00	-663.39
292 FUER X MIN envolvente (ELS) (tota	2138.48	0.16	658.55
293 FUER Y MAX envolvente (ELS) (tota	2476.81	0.37	800.05
294 FUER Y MIN envolvente (ELS) (tota	2927.20	-0.37	-800.05
295 FUER Z MAX envolvente (ELS) (tota	2735.16	-1367.90	0.00
296 FUER Z MIN envolvente (ELS) (tota	2734.09	1368.30	0.00
297 MOME X MAX envolvente (ELS) (tota	2732.48	0.00	663.39
298 MOME X MIN envolvente (ELS) (tota	2735.84	0.00	-663.39
299 MOME Y MAX envolvente (ELS) (tota	2734.09	1368.30	0.00
300 MOME Y MIN envolvente (ELS) (tota	2735.16	-1367.90	0.00
301 MOME Z MAX envolvente (ELS) (tota	2476.81	0.37	800.05
302 MOME Z MIN envolvente (ELS) (tota	2927.20	-0.37	-800.05
511 FUER X MAX envolvente (ELU) (tota	6118.20	0.00	-995.09
512 FUER X MIN envolvente (ELU) (tota	1788.94	0.24	987.82
513 FUER Y MAX envolvente (ELU) (tota	2456.66	0.56	1100.57
514 FUER Y MIN envolvente (ELU) (tota	2464.83	-0.56	-1100.57
515 FUER Z MAX envolvente (ELU) (tota	2462.24	-2051.85	0.00
516 FUER Z MIN envolvente (ELU) (tota	2460.64	2052.45	0.00
517 MOME X MAX envolvente (ELU) (tota	2458.23	0.00	995.09
518 MOME X MIN envolvente (ELU) (tota	2463.26	0.00	-995.09
519 MOME Y MAX envolvente (ELU) (tota	2460.64	2052.45	0.00
520 MOME Y MIN envolvente (ELU) (tota	2462.24	-2051.85	0.00
521 MOME Z MAX envolvente (ELU) (tota	2456.66	0.56	1100.57
522 MOME Z MIN envolvente (ELU) (tota	2464.83	-0.56	-1100.57

Armadura

PILA-7



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Pila-
2.75 1304.3 2.00
  3.00  8.50
  3.00 -8.50
 -3.00  8.50
 -3.00 -8.50
barr
462 1
hipo
291 a 302
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proc Viaducto sobre el rio Ebro

BARRA 462 NUDO 186

proc Viaducto sobre el rio Ebro

Pila- -

Pilote mas cargado N= 1412.75 SIG= 44.97 hip. 291 pilote 3

Pilote menos cargado N= 792.52 SIG= 25.23

CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
291	1278.80	1278.80	1412.75	1412.75	12.76
292	928.87	928.86	792.53	792.52	14.50
293	1029.80	1029.77	860.78	860.76	19.46
294	973.35	973.38	1142.37	1142.40	19.46
295	962.65	1057.08	962.65	1057.08	21.57
296	1056.82	962.37	1056.82	962.37	21.58
297	1076.17	1076.17	942.22	942.22	12.76
298	943.06	943.06	1077.01	1077.01	12.76
299	1056.82	962.37	1056.82	962.37	21.58
300	962.65	1057.08	962.65	1057.08	21.57
301	1029.80	1029.77	860.78	860.76	19.46
302	973.35	973.38	1142.37	1142.40	19.46

Pila-
2.75 1760.8 2.00
3.00 8.50
3.00 -8.50
-3.00 8.50
-3.00 -8.50
barr
462 1
hipo
511 a 522

proc Viaducto sobre el rio Ebro

BARRA 462 NUDO 186

proc Viaducto sobre el rio Ebro

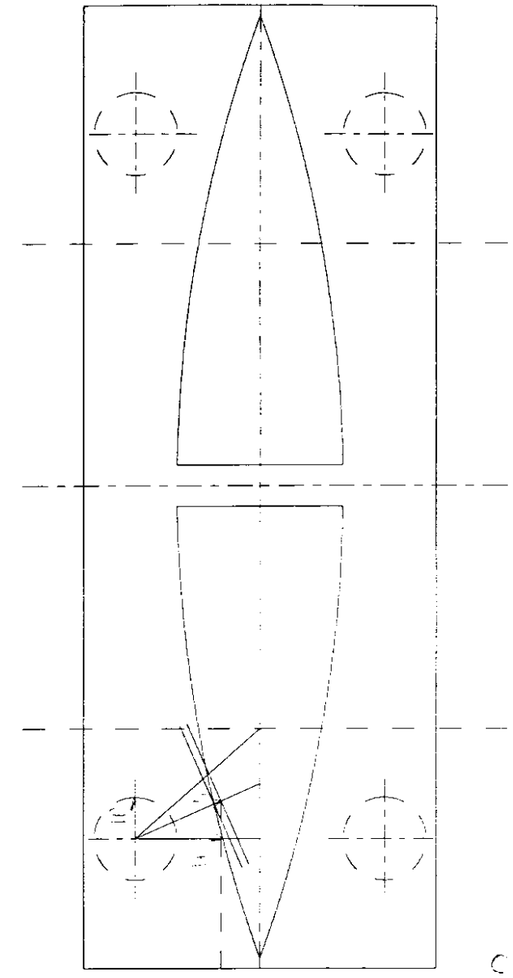
Pila- -

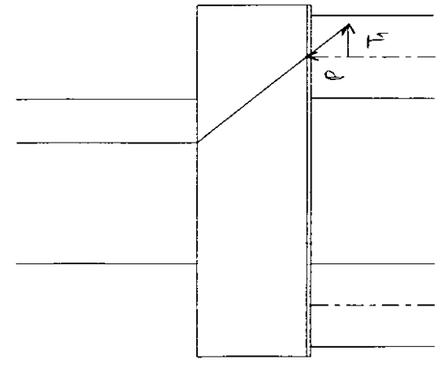
Pilote mas cargado N= 2070.22 SIG= 65.90 hip. 511 pilote 3

Pilote menos cargado N= 785.17 SIG= 24.99

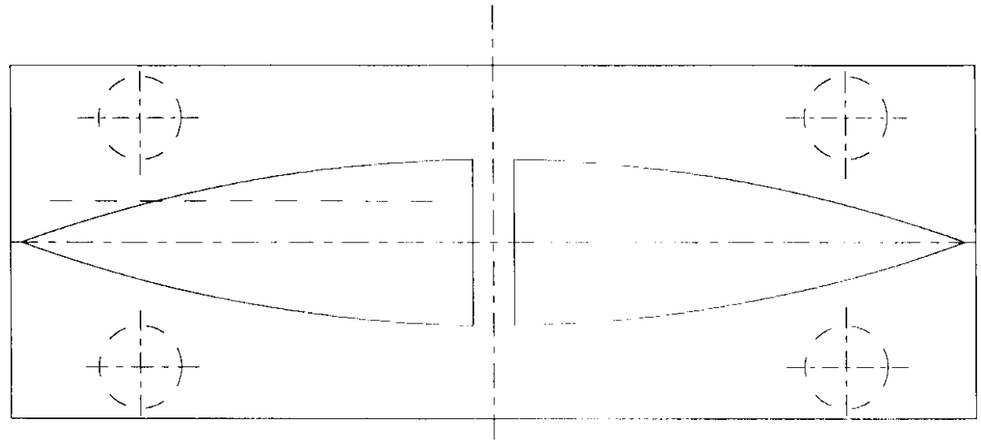
CARGA EN CADA PILOTE

	PILOTE				
HIP	1	2	3	4	CORT
511	1869.28	1869.28	2070.22	2070.22	19.14
512	989.69	989.68	785.19	785.17	21.75
513	1171.10	1171.06	937.67	937.63	27.27
514	939.67	939.71	1173.11	1173.14	27.27
515	984.94	1126.58	984.94	1126.58	32.36
516	1126.20	984.52	1126.20	984.52	32.37
517	1155.22	1155.22	954.29	954.29	19.14
518	955.55	955.55	1156.48	1156.48	19.14
519	1126.20	984.52	1126.20	984.52	32.37
520	984.94	1126.58	984.94	1126.58	32.36
521	1171.10	1171.06	937.67	937.63	27.27
522	939.67	939.71	1173.11	1173.14	27.27





Comprobacion a cortante



PILAS 8, 11 y 12

Esfuerzos de la barra 463 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	4871.01	0.00	-1016.73
292 FUER X MIN envolvente (ELS) (tota	1911.03	-1360.62	1016.73
293 FUER Y MAX envolvente (ELS) (tota	2546.20	-0.20	1159.42
294 FUER Y MIN envolvente (ELS) (tota	2557.41	0.20	-1159.42
295 FUER Z MAX envolvente (ELS) (tota	2312.91	-2742.83	1016.73
296 FUER Z MIN envolvente (ELS) (tota	3317.61	2742.82	-1016.73
297 MOME X MAX envolvente (ELS) (tota	2557.31	0.00	-1016.73
298 MOME X MIN envolvente (ELS) (tota	2546.31	0.00	1016.73
299 MOME Y MAX envolvente (ELS) (tota	2662.02	3690.02	0.00
300 MOME Y MIN envolvente (ELS) (tota	2694.64	-3514.48	0.00
301 MOME Z MAX envolvente (ELS) (tota	2546.20	-0.20	1159.42
302 MOME Z MIN envolvente (ELS) (tota	2557.41	0.20	-1159.42
511 FUER X MAX envolvente (ELU) (tota	7306.51	0.00	-1525.10
512 FUER X MIN envolvente (ELU) (tota	1356.40	-2041.30	1372.59
513 FUER Y MAX envolvente (ELU) (tota	2289.04	-0.30	1586.62
514 FUER Y MIN envolvente (ELU) (tota	2304.21	0.30	-1586.62
515 FUER Z MAX envolvente (ELU) (tota	2295.50	-4114.24	0.00
516 FUER Z MIN envolvente (ELU) (tota	2299.14	4114.23	0.00
517 MOME X MAX envolvente (ELU) (tota	2304.88	0.00	-1525.10
518 MOME X MIN envolvente (ELU) (tota	2288.38	0.00	1525.10
519 MOME Y MAX envolvente (ELU) (tota	2615.06	5535.03	0.00
520 MOME Y MIN envolvente (ELU) (tota	2663.98	-5271.72	0.00
521 MOME Z MAX envolvente (ELU) (tota	2289.04	-0.30	1586.62
522 MOME Z MIN envolvente (ELU) (tota	2304.21	0.30	-1586.62

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 466 extremo dorsal P-11

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	5531.67	0.00	-1232.14
292 FUER X MIN envolvente (ELS) (tota	2497.27	3.33	1043.91
293 FUER Y MAX envolvente (ELS) (tota	3072.05	-7.09	1376.62
294 FUER Y MIN envolvente (ELS) (tota	3076.05	7.09	-1376.62
295 FUER Z MAX envolvente (ELS) (tota	3073.06	-3348.86	0.00
296 FUER Z MIN envolvente (ELS) (tota	3075.96	3348.94	0.00
297 MOME X MAX envolvente (ELS) (tota	3079.91	0.00	-1232.14
298 MOME X MIN envolvente (ELS) (tota	3068.20	0.00	1232.14
299 MOME Y MAX envolvente (ELS) (tota	3075.96	3348.94	0.00
300 MOME Y MIN envolvente (ELS) (tota	3073.06	-3348.86	0.00
301 MOME Z MAX envolvente (ELS) (tota	3072.05	-7.09	1376.62
302 MOME Z MIN envolvente (ELS) (tota	3076.05	7.09	-1376.62
511 FUER X MAX envolvente (ELU) (tota	8297.51	0.00	-1848.21
512 FUER X MIN envolvente (ELU) (tota	1984.62	32.97	1555.03
513 FUER Y MAX envolvente (ELU) (tota	2764.52	-10.63	1880.11
514 FUER Y MIN envolvente (ELU) (tota	2768.77	10.63	-1880.11
515 FUER Z MAX envolvente (ELU) (tota	2765.17	-5023.29	0.00
516 FUER Z MIN envolvente (ELU) (tota	2769.51	5023.41	0.00
517 MOME X MAX envolvente (ELU) (tota	2775.43	0.00	-1848.21
518 MOME X MIN envolvente (ELU) (tota	2757.86	0.00	1848.21
519 MOME Y MAX envolvente (ELU) (tota	2769.51	5023.41	0.00
520 MOME Y MIN envolvente (ELU) (tota	2765.17	-5023.29	0.00
521 MOME Z MAX envolvente (ELU) (tota	2764.52	-10.63	1880.11
522 MOME Z MIN envolvente (ELU) (tota	2768.77	10.63	-1880.11

proc Viaducto sobre el rio Ebro

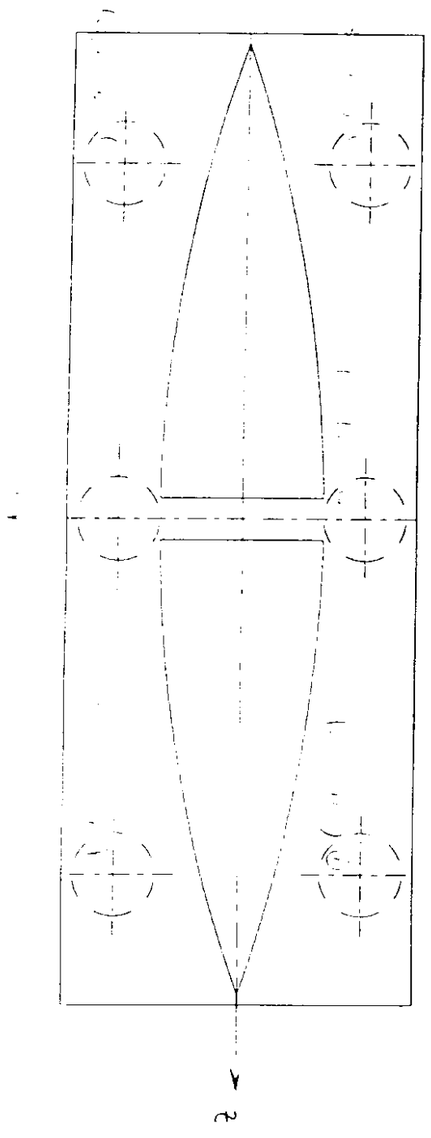
Esfuerzos de la barra 467 extremo dorsal P-12

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	6484.34	0.00	1497.60
292 FUER X MIN envolvente (ELS) (tota	3526.35	10.71	-1220.98
293 FUER Y MAX envolvente (ELS) (tota	4659.86	11.90	1638.55
294 FUER Y MIN envolvente (ELS) (tota	4492.25	-11.90	-1638.55
295 FUER Z MAX envolvente (ELS) (tota	4577.80	-2719.91	0.00
296 FUER Z MIN envolvente (ELS) (tota	4575.23	2719.80	0.00
297 MOME X MAX envolvente (ELS) (tota	4701.88	0.00	1497.60
298 MOME X MIN envolvente (ELS) (tota	4450.23	0.00	-1497.60
299 MOME Y MAX envolvente (ELS) (tota	4781.66	3063.97	0.00
300 MOME Y MIN envolvente (ELS) (tota	4748.01	-3079.27	0.00
301 MOME Z MAX envolvente (ELS) (tota	4659.86	11.90	1638.55
302 MOME Z MIN envolvente (ELS) (tota	4492.25	-11.90	-1638.55
511 FUER X MAX envolvente (ELU) (tota	9726.51	0.00	2246.40
512 FUER X MIN envolvente (ELU) (tota	2868.69	16.07	-1831.48
513 FUER Y MAX envolvente (ELU) (tota	4225.28	17.86	2233.19
514 FUER Y MIN envolvente (ELU) (tota	4011.62	-17.86	-2233.19
515 FUER Z MAX envolvente (ELU) (tota	4121.06	-4079.86	0.00
516 FUER Z MIN envolvente (ELU) (tota	4117.22	4079.70	0.00
517 MOME X MAX envolvente (ELU) (tota	4307.19	0.00	2246.40
518 MOME X MIN envolvente (ELU) (tota	3929.71	0.00	-2246.40
519 MOME Y MAX envolvente (ELU) (tota	4701.41	4595.96	0.00
520 MOME Y MIN envolvente (ELU) (tota	4650.94	-4618.91	0.00
521 MOME Z MAX envolvente (ELU) (tota	4307.19	0.00	2246.40
522 MOME Z MIN envolvente (ELU) (tota	3929.71	0.00	-2246.40

Armadura

PILA 11 12



Pila-
2.75 1304.3 2.00
3.00 8.50
3.00 0.00
3.00 -8.50
-3.00 8.50
-3.00 0.00
-3.00 -8.50
barr
463 1 466 1 467 1
hipo
291 a 302

proc Viaducto sobre el rio Ebro

BARRA 463 NUDO 221

proc Viaducto sobre el rio Ebro

Pila-

Pilote mas cargado N= 1097.65 SIG= 34.94 hip. 291 pilote 4

Pilote menos cargado N= 421.37 SIG= 13.41

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
291	960.78	960.78	960.78	1097.65	1097.65	1097.65	13.03
292	558.23	604.32	650.41	421.37	467.45	513.54	18.07
293	722.32	722.32	722.33	561.17	561.18	561.19	17.63
294	563.05	563.05	563.04	724.20	724.19	724.18	17.63
295	578.40	671.30	764.21	441.53	534.44	627.34	28.38
296	794.79	701.88	608.98	931.66	838.75	745.85	28.38
297	575.17	575.17	575.17	712.04	712.04	712.04	13.03
298	710.20	710.20	710.20	573.33	573.33	573.33	13.03
299	778.82	661.05	543.29	778.82	661.05	543.29	19.03
300	554.80	666.49	778.18	554.80	666.49	778.18	17.15
301	722.32	722.32	722.33	561.17	561.18	561.19	17.63
302	563.05	563.05	563.04	724.20	724.19	724.18	17.63

proc Viaducto sobre el rio Ebro

BARRA 466 NUDO 383

proc Viaducto sobre el rio Ebro

Pila- 1

Pilote mas cargado N= 1222.26 SIG= 38.91 hip. 291 pilote 4

Pilote menos cargado N= 564.36 SIG= 17.96

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
291	1056.40	1056.40	1056.40	1222.26	1222.26	1222.26	15.80
292	702.82	702.71	702.60	564.59	564.48	564.36	12.13
293	824.36	824.60	824.84	633.95	634.19	634.43	20.43
294	635.10	634.85	634.61	825.50	825.26	825.02	20.43
295	616.00	729.56	843.12	616.00	729.56	843.12	31.04
296	843.60	730.04	616.48	843.60	730.04	616.48	31.04
297	647.77	647.77	647.77	813.63	813.63	813.63	15.80
298	811.68	811.68	811.68	645.82	645.82	645.82	15.80
299	843.60	730.04	616.48	843.60	730.04	616.48	31.04
300	616.00	729.56	843.12	616.00	729.56	843.12	31.04
301	824.36	824.60	824.84	633.95	634.19	634.43	20.43
302	635.10	634.85	634.61	825.50	825.26	825.02	20.43

proc Viaducto sobre el rio Ebro

BARRA 467 NUDO 427

proc Viaducto sobre el rio Ebro

Pila-

Pilote mas cargado N= 1398.91 SIG= 44.53 hip. 291 pilote 3

Pilote menos cargado N= 724.83 SIG= 23.07

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
291	1398.91	1398.91	1398.91	1197.31	1197.31	1197.31	19.20
292	725.56	725.20	724.83	885.38	885.02	884.66	13.18
293	1107.24	1106.83	1106.43	881.62	881.22	880.81	23.76
294	852.88	853.28	853.69	1078.50	1078.90	1079.31	23.76
295	888.25	980.35	1072.45	888.25	980.35	1072.45	24.94
296	1072.02	979.92	887.83	1072.02	979.92	887.83	24.94
297	1101.83	1101.83	1101.83	900.23	900.23	900.23	19.20
298	858.29	858.29	858.29	1059.89	1059.89	1059.89	19.20
299	1109.89	1014.33	918.76	1109.89	1014.33	918.76	11.22
300	912.00	1008.72	1105.44	912.00	1008.72	1105.44	12.68
301	1107.24	1106.83	1106.43	881.62	881.22	880.81	23.76
302	852.88	853.28	853.69	1078.50	1078.90	1079.31	23.76

Pila-
2.75 1760.8 2.00
3.00 8.50
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-3.00 8.50
-3.00 0.00
-3.00 -8.50
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463 1 466 1 467 1
hipo
511 a 522

proc Viaducto sobre el rio Ebro

BARRA 463 NUDO 221

proc Viaducto sobre el rio Ebro

Pila-

Pilote mas cargado N= 1613.87 SIG= 51.37 hip. 511 pilote 4

Pilote menos cargado N= 358.00 SIG= 11.40

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
511	1408.57	1408.57	1408.57	1613.87	1613.87	1613.87	19.55
512	542.77	611.92	681.06	358.00	427.15	496.29	25.72
513	785.56	785.57	785.58	564.37	564.38	564.39	24.49
514	566.92	566.91	566.90	788.11	788.09	788.08	24.49
515	536.69	676.05	815.41	536.69	676.05	815.41	37.82
516	816.01	676.66	537.30	816.01	676.66	537.30	37.81
517	574.96	574.96	574.96	780.26	780.26	780.26	19.55
518	777.51	777.51	777.51	572.21	572.21	572.21	19.55
519	905.96	729.31	552.66	905.96	729.31	552.66	28.55
520	569.93	737.46	905.00	569.93	737.46	905.00	25.73
521	785.56	785.57	785.58	564.37	564.38	564.39	24.49
522	566.92	566.91	566.90	788.11	788.09	788.08	24.49

proc Viaducto sobre el rio Ebro

BARRA 466 NUDO 383

proc Viaducto sobre el rio Ebro

Pila- 14

Pilote mas cargado N= 1800.78 SIG= 57.32 hip. 511 pilote 4

Pilote menos cargado N= 520.36 SIG= 16.56

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
511	1551.99	1551.99	1551.99	1800.78	1800.78	1800.78	23.69
512	728.11	726.99	725.87	522.60	521.48	520.36	17.85
513	884.23	884.59	884.95	623.49	623.85	624.21	28.27
514	624.92	624.56	624.20	885.66	885.30	884.93	28.27
515	583.99	754.33	924.66	583.99	754.33	924.66	46.56
516	925.39	755.05	584.71	925.39	755.05	584.71	46.56
517	631.64	631.64	631.64	880.44	880.44	880.44	23.69
518	877.51	877.51	877.51	628.71	628.71	628.71	23.69
519	925.39	755.05	584.71	925.39	755.05	584.71	46.56
520	583.99	754.33	924.66	583.99	754.33	924.66	46.56
521	884.23	884.59	884.95	623.49	623.85	624.21	28.27
522	624.92	624.56	624.20	885.66	885.30	884.93	28.27

proc Viaducto sobre el rio Ebro

BARRA 467 NUDO 427

proc Viaducto sobre el rio Ebro

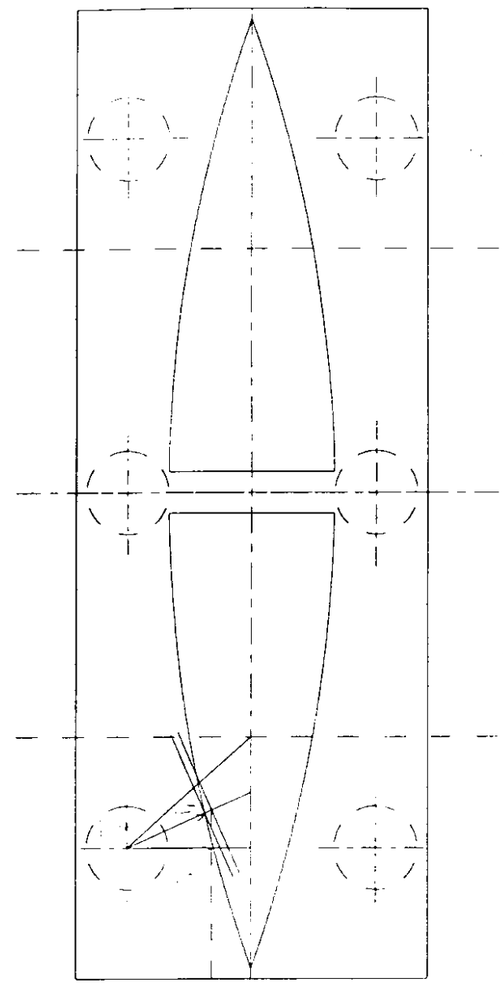
Pila-

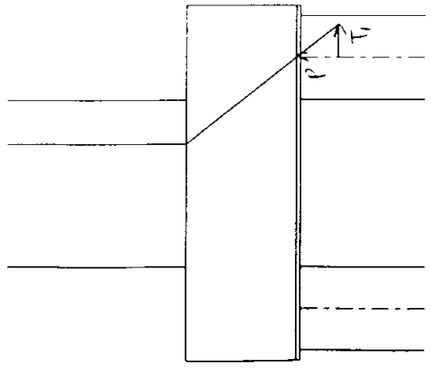
Pilote mas cargado N= 2065.75 SIG= 65.75 hip. 511 pilote 3

Pilote menos cargado N= 651.17 SIG= 20.73

CARGA EN CADA PILOTE

	PILOTE						
HIP	1	2	3	4	5	6	CORT
511	2065.75	2065.75	2065.75	1763.35	1763.35	1763.35	28.80
512	652.26	651.71	651.17	892.00	891.45	890.90	19.77
513	1152.38	1151.77	1151.17	844.19	843.59	842.98	32.76
514	807.37	807.98	808.58	1115.56	1116.16	1116.77	32.76
515	842.16	980.31	1118.46	842.16	980.31	1118.46	37.41
516	1117.81	979.67	841.52	1117.81	979.67	841.52	37.41
517	1162.53	1162.53	1162.53	860.13	860.13	860.13	28.80
518	797.22	797.22	797.22	1099.62	1099.62	1099.62	28.80
519	1220.38	1077.04	933.69	1220.38	1077.04	933.69	16.84
520	923.54	1068.62	1213.70	923.54	1068.62	1213.70	19.02
521	1162.53	1162.53	1162.53	860.13	860.13	860.13	28.80
522	797.22	797.22	797.22	1099.62	1099.62	1099.62	28.80





PILAS 9 a 10

Esfuerzos

proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 464 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	10340.53	0.00	3331.52
292 FUER X MIN envolvente (ELS) (tota	6567.70	2876.27	-2998.37
293 FUER Y MAX envolvente (ELS) (tota	7601.59	0.10	3588.40
294 FUER Y MIN envolvente (ELS) (tota	7591.25	-0.10	-3588.40
295 FUER Z MAX envolvente (ELS) (tota	7718.96	-6400.82	3331.52
296 FUER Z MIN envolvente (ELS) (tota	7373.65	6400.76	-3331.52
297 MOME X MAX envolvente (ELS) (tota	7601.57	0.00	3331.52
298 MOME X MIN envolvente (ELS) (tota	7591.27	0.00	-3331.52
299 MOME Y MAX envolvente (ELS) (tota	7373.65	6400.76	-3331.52
300 MOME Y MIN envolvente (ELS) (tota	7718.96	-6400.82	3331.52
301 MOME Z MAX envolvente (ELS) (tota	7601.59	0.10	3588.40
302 MOME Z MIN envolvente (ELS) (tota	7591.25	-0.10	-3588.40
511 FUER X MAX envolvente (ELU) (tota	15835.57	0.00	4997.28
512 FUER X MIN envolvente (ELU) (tota	5781.22	4314.41	-4497.55
513 FUER Y MAX envolvente (ELU) (tota	6778.81	0.15	4882.87
514 FUER Y MIN envolvente (ELU) (tota	6764.84	-0.15	-4882.87
515 FUER Z MAX envolvente (ELU) (tota	6773.76	-9601.23	0.00
516 FUER Z MIN envolvente (ELU) (tota	6771.67	9601.13	0.00
517 MOME X MAX envolvente (ELU) (tota	6779.54	0.00	4997.28
518 MOME X MIN envolvente (ELU) (tota	6764.10	0.00	-4997.28
519 MOME Y MAX envolvente (ELU) (tota	6771.67	9601.13	0.00
520 MOME Y MIN envolvente (ELU) (tota	6773.76	-9601.23	0.00
521 MOME Z MAX envolvente (ELU) (tota	6779.54	0.00	4997.28
522 MOME Z MIN envolvente (ELU) (tota	6764.10	0.00	-4997.28

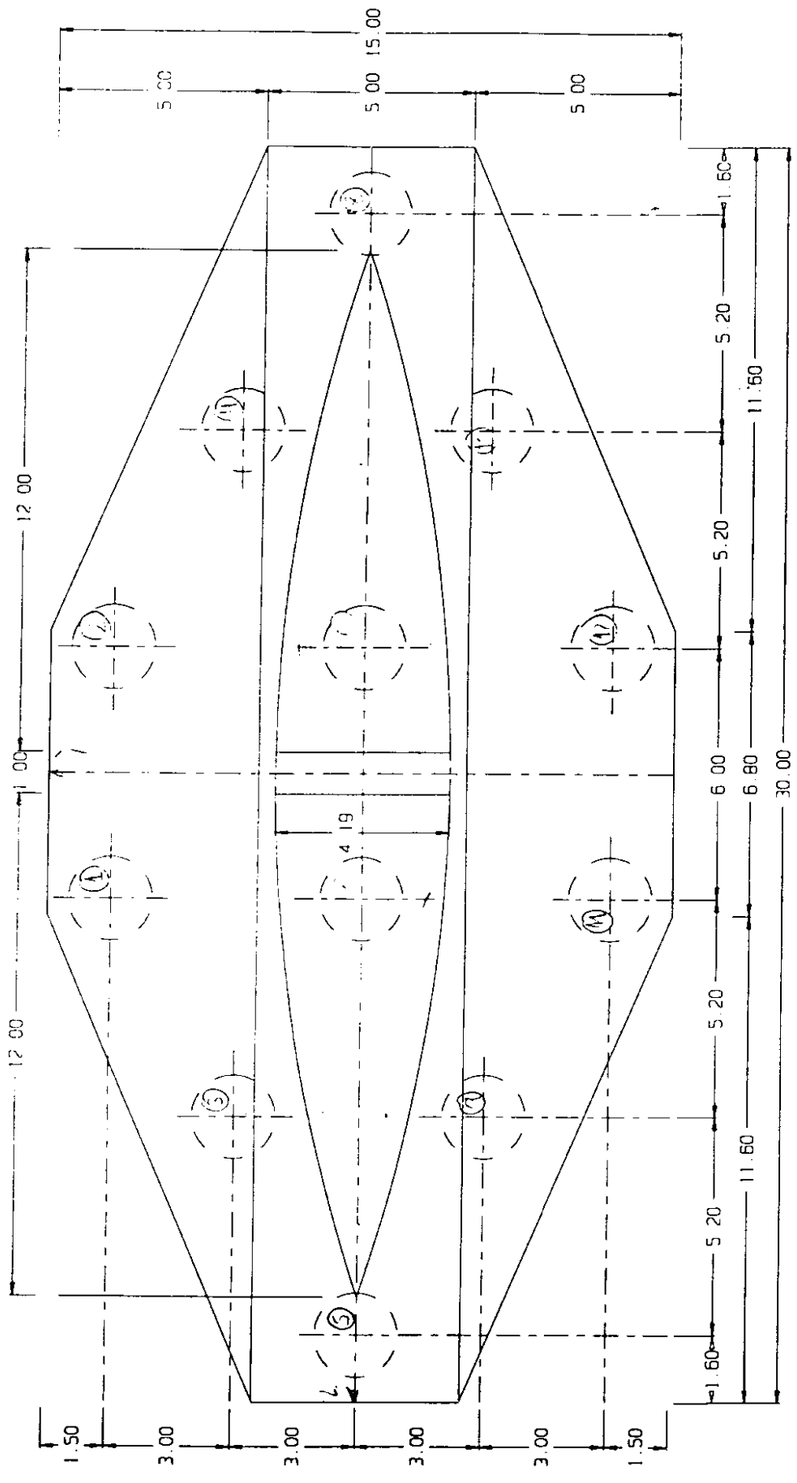
proc Viaducto sobre el rio Ebro

Esfuerzos de la barra 465 extremo dorsal

coeficiente del esfuerzo FX : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FX	MY	MZ
291 FUER X MAX envolvente (ELS) (tota	10239.66	0.00	-3270.56
292 FUER X MIN envolvente (ELS) (tota	6493.49	0.70	3064.24
293 FUER Y MAX envolvente (ELS) (tota	7287.88	1.49	3538.87
294 FUER Y MIN envolvente (ELS) (tota	7524.59	-1.49	-3538.87
295 FUER Z MAX envolvente (ELS) (tota	7631.50	-6431.84	-3270.56
296 FUER Z MIN envolvente (ELS) (tota	7519.97	6431.81	0.00
297 MOME X MAX envolvente (ELS) (tota	7515.92	0.00	3270.56
298 MOME X MIN envolvente (ELS) (tota	7524.09	0.00	-3270.56
299 MOME Y MAX envolvente (ELS) (tota	7519.97	6431.81	0.00
300 MOME Y MIN envolvente (ELS) (tota	7631.50	-6431.84	-3270.56
301 MOME Z MAX envolvente (ELS) (tota	7287.88	1.49	3538.87
302 MOME Z MIN envolvente (ELS) (tota	7524.59	-1.49	-3538.87
511 FUER X MAX envolvente (ELU) (tota	15673.00	0.00	-4905.84
512 FUER X MIN envolvente (ELU) (tota	5721.19	1.05	4596.36
513 FUER Y MAX envolvente (ELU) (tota	6699.04	2.24	4817.72
514 FUER Y MIN envolvente (ELU) (tota	6711.57	-2.24	-4817.72
515 FUER Z MAX envolvente (ELU) (tota	6707.19	-9647.76	0.00
516 FUER Z MIN envolvente (ELU) (tota	6705.25	9647.71	0.00
517 MOME X MAX envolvente (ELU) (tota	6699.17	0.00	4905.84
518 MOME X MIN envolvente (ELU) (tota	6711.44	0.00	-4905.84
519 MOME Y MAX envolvente (ELU) (tota	6705.25	9647.71	0.00
520 MOME Y MIN envolvente (ELU) (tota	6707.19	-9647.76	0.00
521 MOME Z MAX envolvente (ELU) (tota	6699.17	0.00	4905.84
522 MOME Z MIN envolvente (ELU) (tota	6711.44	0.00	-4905.84

Armadura




```
Pila-
5.00 3454.5 2.00
  6.00   3.00
  6.00  -3.00
  3.00   8.20
  3.00  -8.20
  0.00  13.40
  0.00   3.00
  0.00  -3.00
  0.00 -13.40
 -3.00   8.20
 -3.00  -8.20
 -6.00   3.00
 -6.00  -3.00
barr
464 1 465 1
hipo
291 a 302
```

proc Viaducto sobre el rio Ebro

BARRA 464 NUDO 265

proc Viaducto sobre el rio Ebro

Pila-9

Pilote mas cargado N= 1295.34 SIG= 41.23 hip. 291 pilote 2

Pilote menos cargado N= 688.34 SIG= 21.91

CARGA EN CADA PILOTE

	PILOTE							
HIP	1	2	3	4	5	6	7	8
291	1295.34	1295.34	1222.46	1222.46	1149.59	1149.59	1149.59	1149.59
292	719.67	688.34	812.40	726.78	905.14	850.84	819.52	765.23
293	1082.46	1082.46	1001.90	1001.90	921.34	921.34	921.34	921.34
294	759.36	759.36	839.92	839.92	920.48	920.48	920.48	920.48
295	1042.02	1111.73	908.73	1099.27	775.44	896.27	965.97	1086.80
296	791.45	721.74	924.73	734.20	1058.02	937.20	867.49	746.67
297	1067.09	1067.09	994.22	994.22	921.34	921.34	921.34	921.34
298	774.73	774.73	847.60	847.60	920.48	920.48	920.48	920.48
299	791.45	721.74	924.73	734.20	1058.02	937.20	867.49	746.67
300	1042.02	1111.73	908.73	1099.27	775.44	896.27	965.97	1086.80
301	1082.46	1082.46	1001.90	1001.90	921.34	921.34	921.34	921.34
302	759.36	759.36	839.92	839.92	920.48	920.48	920.48	920.48

CARGA EN CADA PILOTE

	PILOTE				
HIP	9	10	11	12	CORT
291	1076.71	1076.71	1003.83	1003.83	17.35
292	943.58	857.96	982.02	950.70	19.34
293	840.78	840.78	760.22	760.22	20.75
294	1001.04	1001.04	1081.60	1081.60	20.75
295	762.98	953.51	750.51	820.22	30.75
296	1070.49	879.96	1082.95	1013.25	30.75
297	848.46	848.46	775.58	775.58	17.35
298	993.36	993.36	1066.23	1066.23	17.35
299	1070.49	879.96	1082.95	1013.25	30.75
300	762.98	953.51	750.51	820.22	30.75
301	840.78	840.78	760.22	760.22	20.75
302	1001.04	1001.04	1081.60	1081.60	20.75

proc Viaducto sobre el rio Ebro

BARRA 465 NUDO 339

proc Viaducto sobre el rio Ebro

Pila- 4

Pilote mas cargado N= 1284.27 SIG= 40.88 hip. 291 pilote 11

Pilote menos cargado N= 693.01 SIG= 22.06

CARGA EN CADA PILOTE

	PILOTE							
HIP	1	2	3	4	5	6	7	8
291	998.09	998.09	1069.64	1069.64	1141.18	1141.18	1141.18	1141.18
292	964.98	964.98	897.00	896.98	829.02	829.00	829.00	828.98
293	1054.30	1054.28	974.77	974.72	895.23	895.21	895.19	895.16
294	755.82	755.84	835.36	835.40	914.89	914.92	914.93	914.96
295	745.71	815.78	756.54	948.04	767.36	888.80	958.86	1080.31
296	949.57	879.51	1010.29	818.79	1071.01	949.57	879.51	758.07
297	1057.29	1057.29	985.74	985.74	914.20	914.20	914.20	914.20
298	771.80	771.80	843.34	843.34	914.88	914.88	914.88	914.88
299	949.57	879.51	1010.29	818.79	1071.01	949.57	879.51	758.07
300	745.71	815.78	756.54	948.04	767.36	888.80	958.86	1080.31
301	1054.30	1054.28	974.77	974.72	895.23	895.21	895.19	895.16
302	755.82	755.84	835.36	835.40	914.89	914.92	914.93	914.96

CARGA EN CADA PILOTE

	PILOTE				
HIP	9	10	11	12	CORT
291	1212.72	1212.72	1284.27	1284.27	17.03
292	761.02	761.00	693.02	693.01	16.92
293	815.68	815.63	736.12	736.10	20.56
294	994.45	994.49	1074.01	1074.02	20.56
295	899.62	1091.13	1031.89	1101.95	30.71
296	1010.29	818.79	949.57	879.51	25.55
297	842.66	842.66	771.11	771.11	17.03
298	986.43	986.43	1057.97	1057.97	17.03
299	1010.29	818.79	949.57	879.51	25.55
300	899.62	1091.13	1031.89	1101.95	30.71
301	815.68	815.63	736.12	736.10	20.56
302	994.45	994.49	1074.01	1074.02	20.56

```
Pila-
5.00 4663.5 2.00
  6.00   3.00
  6.00  -3.00
  3.00   8.20
  3.00  -8.20
  0.00  13.40
  0.00   3.00
  0.00  -3.00
  0.00 -13.40
 -3.00   8.20
 -3.00  -8.20
 -6.00   3.00
 -6.00  -3.00
barr
464 1 465 1
hipo
511 a 522
```

proc Viaducto sobre el rio Ebro

BARRA 464 NUDO 265

proc Viaducto sobre el rio Ebro

Pila- 9

Pilote mas cargado N= 1926.89 SIG= 61.33 hip. 511 pilote 2

Pilote menos cargado N= 650.13 SIG= 20.69

CARGA EN CADA PILOTE

	PILOTE							
HIP	1	2	3	4	5	6	7	8
511	1926.89	1926.89	1817.57	1817.57	1708.26	1708.26	1708.26	1708.26
512	697.12	650.13	836.22	707.80	975.33	893.89	846.90	765.46
513	1173.34	1173.34	1063.43	1063.43	953.53	953.53	953.52	953.52
514	732.55	732.55	842.45	842.46	952.36	952.36	952.36	952.37
515	900.82	1005.39	810.20	1096.00	719.59	900.82	1005.39	1186.62
516	1005.21	900.65	1095.83	810.03	1186.45	1005.21	900.65	719.41
517	1172.22	1172.22	1062.90	1062.90	953.59	953.59	953.59	953.59
518	733.67	733.67	842.98	842.98	952.30	952.30	952.30	952.30
519	1005.21	900.65	1095.83	810.03	1186.45	1005.21	900.65	719.41
520	900.82	1005.39	810.20	1096.00	719.59	900.82	1005.39	1186.62
521	1172.22	1172.22	1062.90	1062.90	953.59	953.59	953.59	953.59
522	733.67	733.67	842.98	842.98	952.30	952.30	952.30	952.30

CARGA EN CADA PILOTE

HIP	PILOTE 9	10	11	12	CORT
511	1598.94	1598.94	1489.62	1489.62	26.03
512	1032.99	904.56	1090.65	1043.67	29.01
513	843.62	843.62	733.71	733.71	28.52
514	1062.27	1062.27	1172.17	1172.17	28.52
515	810.20	1096.00	900.82	1005.39	38.09
516	1095.83	810.03	1005.21	900.65	38.09
517	844.27	844.27	734.96	734.96	26.03
518	1061.62	1061.62	1170.93	1170.93	26.03
519	1095.83	810.03	1005.21	900.65	38.09
520	810.20	1096.00	900.82	1005.39	38.09
521	844.27	844.27	734.96	734.96	26.03
522	1061.62	1061.62	1170.93	1170.93	26.03

proc Viaducto sobre el rio Ebro

BARRA 465 NUDO 339

proc Viaducto sobre el rio Ebro

Pila- 10

Pilote mas cargado N= 1909.34 SIG= 60.78 hip. 511 pilote 11

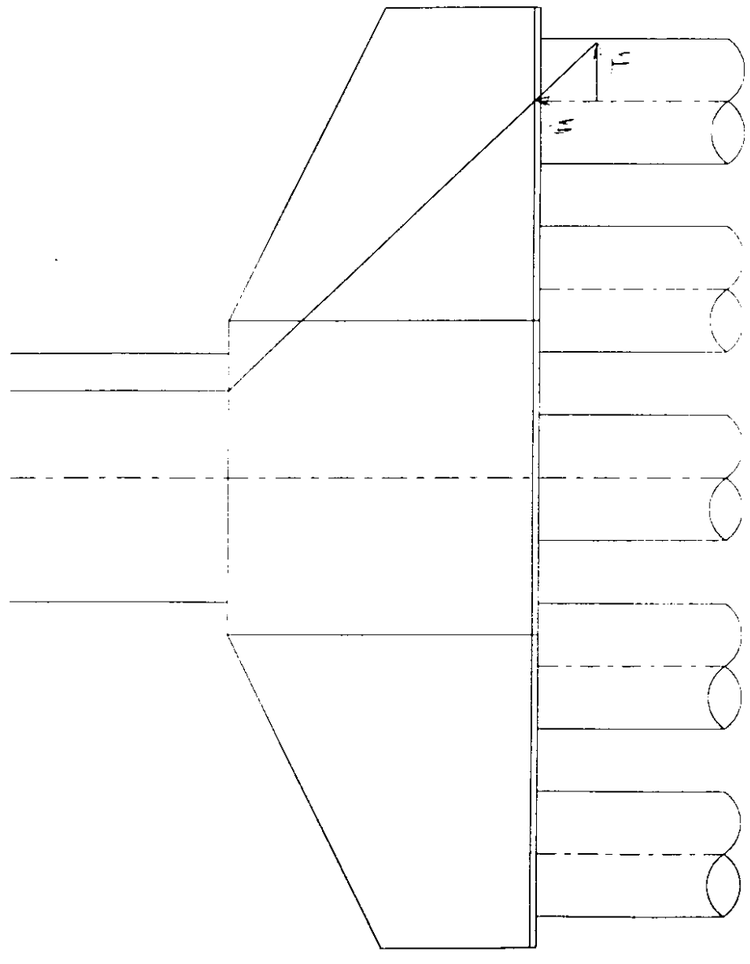
Pilote menos cargado N= 661.41 SIG= 21.05

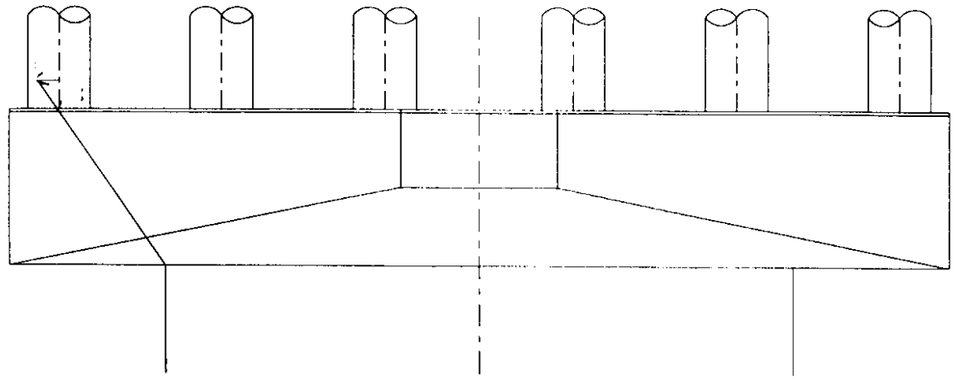
CARGA EN CADA PILOTE

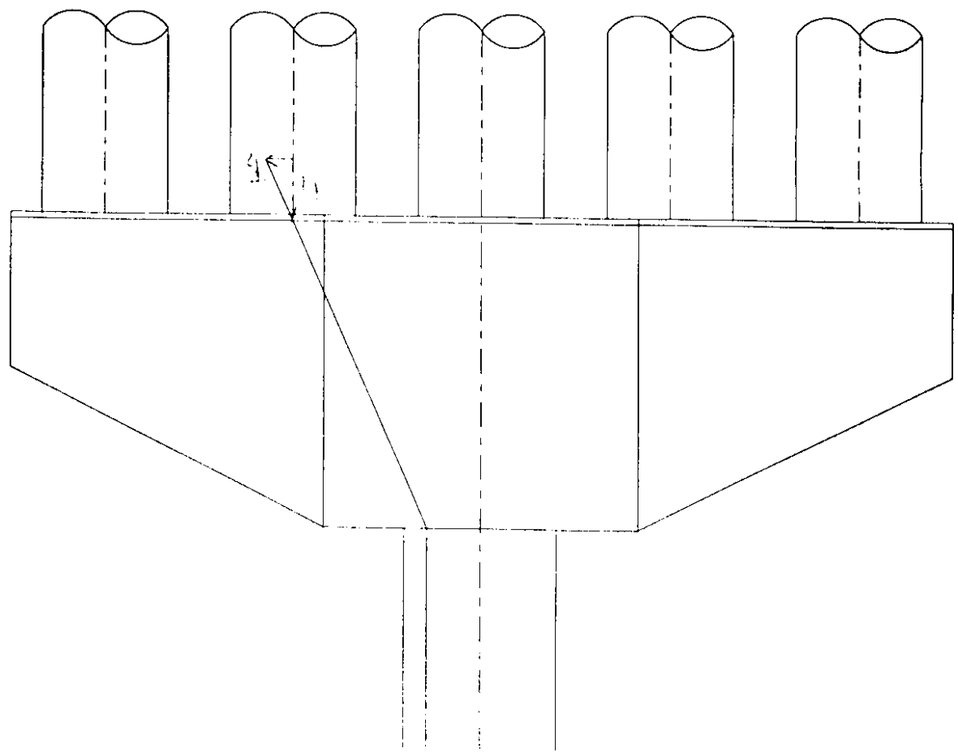
HIP	PILOTE 1	2	3	4	5	6	7	8
511	1480.08	1480.08	1587.39	1587.39	1694.71	1694.71	1694.71	1694.71
512	1069.37	1069.36	967.39	967.36	865.42	865.40	865.39	865.37
513	1164.06	1164.04	1055.50	1055.43	946.93	946.89	946.87	946.82
514	730.74	730.76	839.30	839.37	947.87	947.91	947.93	947.98
515	895.01	1000.10	803.93	1091.19	712.85	895.01	1000.10	1182.27
516	999.94	894.85	1091.02	803.77	1182.11	999.94	894.85	712.69
517	1161.52	1161.52	1054.20	1054.20	946.89	946.89	946.89	946.89
518	733.28	733.28	840.60	840.60	947.91	947.91	947.91	947.91
519	999.94	894.85	1091.02	803.77	1182.11	999.94	894.85	712.69
520	895.01	1000.10	803.93	1091.19	712.85	895.01	1000.10	1182.27
521	1161.52	1161.52	1054.20	1054.20	946.89	946.89	946.89	946.89
522	733.28	733.28	840.60	840.60	947.91	947.91	947.91	947.91

CARGA EN CADA PILOTE

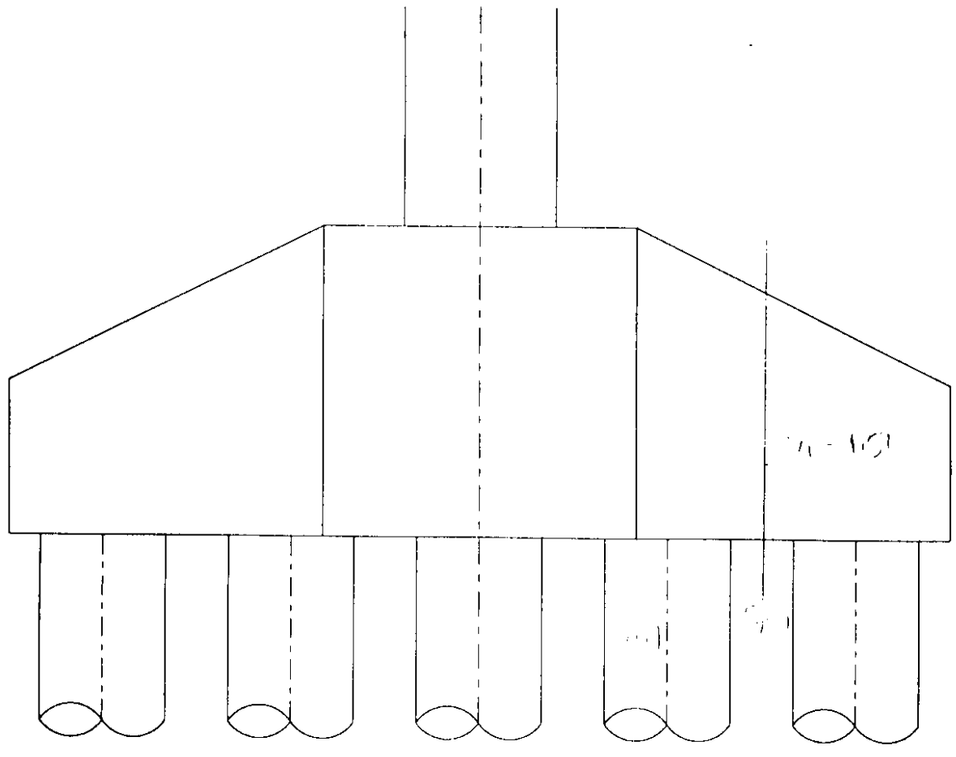
	PILOTE				
HIP	9	10	11	12	CORT
511	1802.02	1802.02	1909.34	1909.34	25.55
512	763.42	763.39	661.43	661.41	25.38
513	838.32	838.26	729.72	729.69	28.29
514	1056.48	1056.54	1165.08	1165.11	28.29
515	803.93	1091.19	895.01	1000.10	38.32
516	1091.02	803.77	999.94	894.85	38.32
517	839.57	839.57	732.26	732.26	25.55
518	1055.23	1055.23	1162.54	1162.54	25.55
519	1091.02	803.77	999.94	894.85	38.32
520	803.93	1091.19	895.01	1000.10	38.32
521	839.57	839.57	732.26	732.26	25.55
522	1055.23	1055.23	1162.54	1162.54	25.55







Comprobacion a cortante



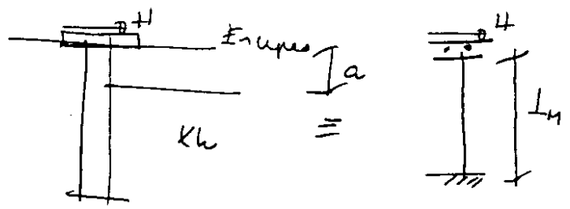
a/ $V_{d2} \leq 3\, b_2\, d_2 \left(1 - \frac{V}{5d}\right) f_{cv}$

$3 \cdot 15{,}70 \cdot 4{,}00 \left(1 \quad \right)$

PILOTES

Pilares sobre el eje Y

Tramo central



$$l_e = \sqrt[4]{\frac{E_p I_p}{k_h}}$$

Sobre cabeza $L_H = 1.5\, l_e$

$k_h = 0.75\ 20\,000 = 15\,000\ kp/cm^3 = 15\,000\ T/m^2$

ϕ 2,00 m. $\quad E_p = 9.500\sqrt{(28)} = 3.17\cdot 10^6\ T/m^2$, $I_p = \frac{\pi}{64} 2^4 = 0.7854$ $\Big\}$ $E_p I_p = 2.489\cdot 10^6\ T\cdot m^2$

ϕ 1.50 m $\quad E_p = 3.17\cdot 10^6\ T/m^2$, $I_p = \frac{\pi}{64} 1.5^4 = 0.2485$ $\Big\}$ $E_p I_p = 0.787\cdot 10^6\ T\cdot m^2$

$l_e = \sqrt[4]{\frac{2489\cdot 10^6}{15\cdot 10^3}} = 3.58$ m $\qquad L_H = 3.58\cdot 1.5 = 5.37 \qquad \phi = 2.0$

$l_e = \quad = 2.69$ m. $\qquad L_H = 2.69\cdot 1.5 = 4.03 \qquad \phi = 1.50$

P11 y P12 $\quad (\phi = 2.0)$

$a = 2$ m $\qquad L_{resulta} \simeq 2 + \frac{5.37}{2} = 4.68$ m ~ 4.70

±2. P9 P10 . P7 a P8 $\quad (\phi = 2.0)$

$a = 0$. $\qquad L_{resulta} \simeq \frac{5.37}{2} = 2.70$ m

P1 a P6 $\quad (\phi = 1.50$ m$)$

$a = 0$. $\qquad L_{resulta} = \frac{4.03}{2} \simeq 2.10$ m

Pilas 1 a 6

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

ARMADURA DE PILOTES Pilas 1 a 6

Nmin = 19,74 Tn ; Cort = 12,27 Tn

N = 24,15 Tn Cortmax = 17,53 Tn

L_M = 2,10 m

① Md = Hp × L_M = 12,27 × 2,10 = 25,77 m × Tn

N = 19,74 Tn T_y = 12,27 Tn M = 25,77 m × Tn

② Md = 17,53 × 2,10 = 36,81 m × Tn

N = 24,15 Tn T_y = 17,53 Tn M = 36,81 m × Tn

Armadura

22 ϕ 20 (A 0,20)

Cercos ϕ 10 A 0,20 ϕ 10 A 0,10 en los 2 primeros metros

Armadura de pilotes de Pilas 1 a 6

FCK 2000 T/M2 FY 51000 T/M2 May. Carg. 1.00 Min. Hor. 1.50 Min. Ace. 1.15

B	H	R	BW	HF	AXIL	MOME	W SUP	W INF	W MIN	CORT	W	W MIN	TORS	WT	WL
0.00	1.50	0.10			19.74	25.77	17.67	0.00	21.25	12.27	0.00	5.05	0.00	0.00	0.00
					24.15	36.81	17.67	0.00	21.25	17.53	0.00	5.05	0.00	0.00	0.00

Pias 7 a 8

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA____ DE ____

PROYECTO_____ FECHA _____

ARMADURA DE PILOTES Pilas 7-8

$N_{min} = 11,40\ Tn$ $Cort = 25,72\ Tn$

$N = 17,08\ Tn$ $Cort_{max} = 37,82\ Tn$

$L_M = 2,70\ m.$

① $Md = Hp \times L_M = 25,72 \times 2,70 = 69.44\ m \times Tn$

$N = 11,40\ Tn$, $T_y = 25,72\ Tn$; $M = 69.44\ m \times Tn$

② $Md = 37,82 \times 2,70 = 102.11\ m \times Tn$

$N = 17,08\ Tn$ $T_y = 37,82\ Tn$; $M = 102.11\ m \times Tn$

Armadura

30 ϕ 20 (A 0,20)

Cercos ϕ 10 A 0,20 ϕ 10 A 0,10 en los dos primeros metros.

Armadura de pilotes de Pilas 7 a 8

FCK 2000 T/M2 FY 51000 T/M2 May. Carg. 1.00 Min. Hor. 1.50 Min. Ace. 1.15

B	H	R	BW	HF	AXIL	MOME	W SUP	W INF	W MIN	CORT	W	W MIN	TORS	WT	WL
0.00	2.00	0.10			11.40	69.44	31.42	0.00	37.78	25.72	0.00	6.73	0.00	0.00	0.00
					17.08	102.11	31.42	0.00	37.78	37.82	0.00	6.73	0.00	0.00	0.00

PILAS 9 a 10

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO _____ FECHA _____

ARMADURA DE PILOTES Pilas 9 a 10

$N_{min} = 20,69$ Tn. $Cort = 29,01$ Tn.

$N = 22,90$ Tn. $Cort_{max} = 38,09$

$L_M = 2,70m$

① $Md = Hp \times L_M = 29,01 \times 2,70 = 78,33$ m×Tn

N = 20,69 Tn ; Cort = 29,01 Tn ; Md = 78,33 m×Tn

② $Md = 38,09 \times 2,70 = 102,84$ m×Tn

N = 22,90 Tn ; Cort = 38,09 Tn ; Md = 102,84 m×Tn

Armadura.

30 ϕ20 (A 0,20)

Cercos ϕ10 A 0,20 (ϕ10 A 0,10 en la zona de pilas)

Armadura de pilotes de Pilas 9 a 10

FCK 2000 T/M2 FY 51000 T/M2 May. Carg. 1.00 Min. Hor. 1.50 Min. Ace. 1.15

B	H	R	BW	HF	AXIL	MOME	W SUP	W INF	W MIN	CORT	W	W MIN	TORS	WT	WL
0.00	2.00	0.10			20.69	78.33	31.42	0.00	37.78	29.01	0.00	6.73	0.00	0.00	0.00
					22.90	102.84	31.42	0.00	37.78	38.09	0.00	6.73	0.00	0.00	0.00

Armadura de pilotes de Pilas 9 a 10

FCK 2000 T/M2 FY 51000 T/M2 May. Carg. 1.00 Min. Hor. 1.50 Min. Ace. 1.15

B	H	R	BW	HF	AXIL	MOME	W SUP	W INF	W MIN	CORT	W	W MIN	TORS	WT	WL
0.00	2.00	0.10			20.69	78.33	31.42	0.00	37.78	29.01	0.00	6.73	0.00	0.00	0.00
					22.90	102.84	31.42	0.00	37.78	38.09	0.00	6.73	0.00	0.00	0.00

Pilas 11 a 12

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA____ DE ____

PROYECTO_____ FECHA _____

ARMADURA DE PILOTES Pilas 11 y 12

Nmin = 16,56 Tn; Cort = 17,85 Tn

N= 18,60 Tn Cortmax = 46,56 Tn

L_M = 4,70 m

① Md = Hp x L_M = 17,85 x 4,70 = 83,90 m x T.

N = 16,56 Tn T = 17,85 Tn ; M = 83,90 m x Tn

② Md = 46,56 x 4,70 = 218,83 m x T.

N = 18,60 Tn T = 46,56 ; M = 218,83 m x Tn

Armadura

30 ϕ20 (A 0,70)

Cercos ϕ10 A 0,70 (ϕ10 A 0,10 en los dos primeros metros)

Armadura de pilotes de Pilas 11 a 12

FCK 2000 T/M2 FY 51000 T/M2 May. Carg. 1.00 Min. Hor. 1.50 Min. Ace. 1.15

B	H	R	BW	HF	AXIL	MOME	W SUP	W INF	W MIN	CORT	W	W MIN	TORS	WT	WL
0.00	2.00	0.10			16.56	83.90	31.42	0.00	37.78	17.85	0.00	6.73	0.00	0.00	0.00
					18.60	218.83	62.83	0.00	37.78	46.56	0.00	6.73	0.00	0.00	0.00

4.3.6 Cálculo de estribos

proc Viaducto sobre el rio Ebro

ESFUERZOS EN LA BARRA 426 EXTREMO 2 (NUDO 6) (F=1)

HIPO	AXIL 1.00	CORT. Y 1.00	CORT. Z 1.00	TORSOR 1.00	FLEC. Y 1.00	FLEC. Z 1.00	C
291	-509.214	0.000	4.210	0.000	-4.020	0.000	
292	-146.527	0.000	-4.210	0.000	4.020	0.000	
293	-229.411	0.000	0.000	0.000	0.000	0.000	
294	-229.411	0.000	0.000	0.000	0.000	0.000	
295	-237.538	0.000	-14.782	0.000	39.510	0.000	
296	-334.930	0.000	32.949	0.000	-55.278	0.000	
297	-229.411	0.000	0.000	0.000	0.000	0.000	
298	-229.411	0.000	0.000	0.000	0.000	0.000	
299	-341.538	0.000	14.792	0.000	-388.209	0.000	
300	-357.792	0.000	-14.782	0.000	388.161	0.000	
301	-229.411	0.000	0.000	0.000	0.000	0.000	
302	-229.411	0.000	0.000	0.000	0.000	0.000	
511	-750.302	0.000	-0.042	0.000	0.199	0.000	
512	-85.664	0.000	-6.107	0.000	5.842	0.000	
513	-206.470	0.000	0.000	0.000	0.000	0.000	
514	-206.470	0.000	0.000	0.000	0.000	0.000	
515	-217.959	0.000	-21.873	0.000	58.955	0.000	
516	-378.513	0.000	49.424	0.000	-82.917	0.000	
517	-206.470	0.000	0.000	0.000	0.000	0.000	
518	-206.470	0.000	0.000	0.000	0.000	0.000	
519	-369.349	0.000	21.888	0.000	-564.571	0.000	
520	-392.327	0.000	-21.873	0.000	564.499	0.000	
521	-206.470	0.000	0.000	0.000	0.000	0.000	
522	-206.470	0.000	0.000	0.000	0.000	0.000	

CP_0 81 -229.41

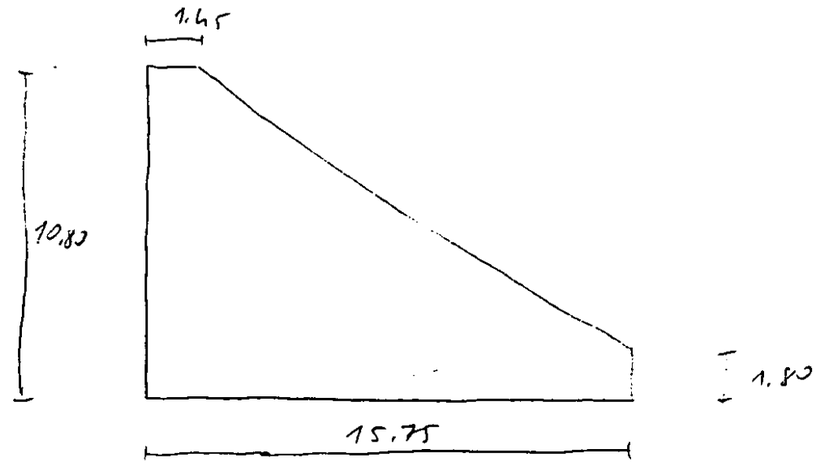
CP_1 82 -229.39

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

PROYECTO ____ FECHA ____

Modelo de cálculo



espesor en zona 1.45 2.0m

espesor variable de 2.0 a 0.80 en 1.80

se pasan dos modelos uno membrana para peso propio y otro placa para carga de tirantes

el modelo membrana se apoya sobre muelles para recoger el momento y el cortante de forma uniforme.

el modelo placa se apoya sobre muelles para la carga y apoyos rígidos para el momento

Espesor de la elemento

elemento		distancia	espesor
1, 15, 29, 43, -	127	0.5107	0.8429
2,	128	1.5371	0.9286..
3	129	2.5536	1.0143
4	130	3.575	1.10
5	131	4.5964	1.1857
6	132	5.6179	1.2714
7	133	6.6393	1.3571
8	134	7.6607	1.4429
9	135	8.6821	1.5286
10	136	9.7036	1.6143
11	137	10.7250	1.70
12	138	11.7464	1.7857
13	139	12.7679	1.8714
14	140	13.7893	1.9571
141 -	160	—	2.0

Carga de tierra

sobre la cuña activa del trasdós tenemos que tiene

$\gamma = 2.2\ T/m^3$

$\varphi = 38°$

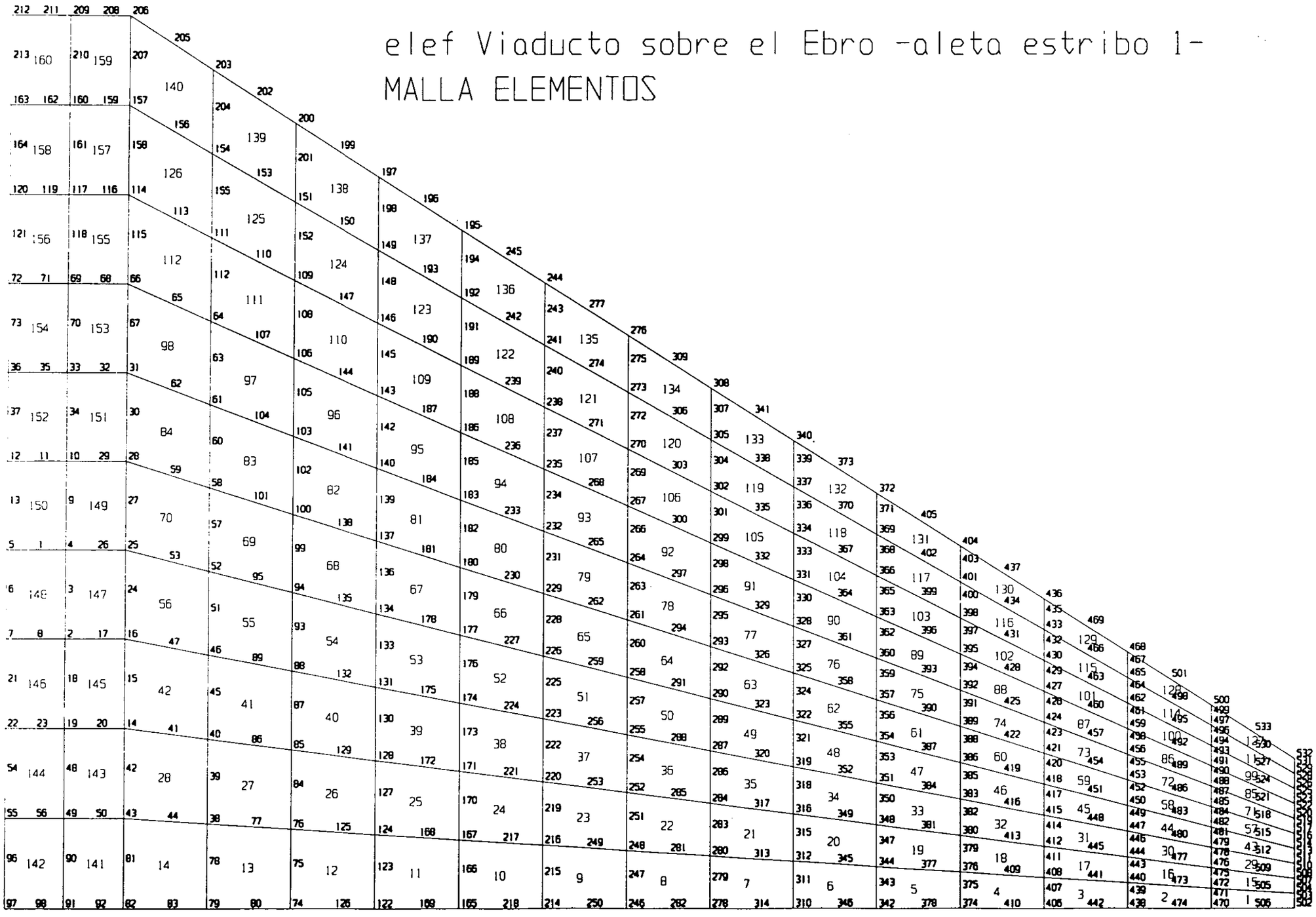
el coeficiente de empuje es

$\lambda = tg^2\left(45 - \frac{38}{2}\right) = 0.238$

la carga es $2.2 \times 0.238 = 0.524\ T/m^2 > 0.5$

en la zona recta de pared tenemos 1.5 m kg/m² de sobrecarga

elef Viaducto sobre el Ebro -aleta estribo 1-
MALLA ELEMENTOS



...Viaducto sobre el Ebro -Caleta Petrobo 1-

NUMERO DE PUNTOS NODALES = 533

NUMERO DE ELEMENTOS = 178

NUMERO DE TIPOS D. MATERIALES= 17

DIMENSION DEL ESPACIO = 2

GRADO DE LIBERTAD POR NODO = 2

MAXIMO NUMERO NODOS/ELEMENTO = 8

NUMERO DE HIPOTESIS DE CARGA = 1

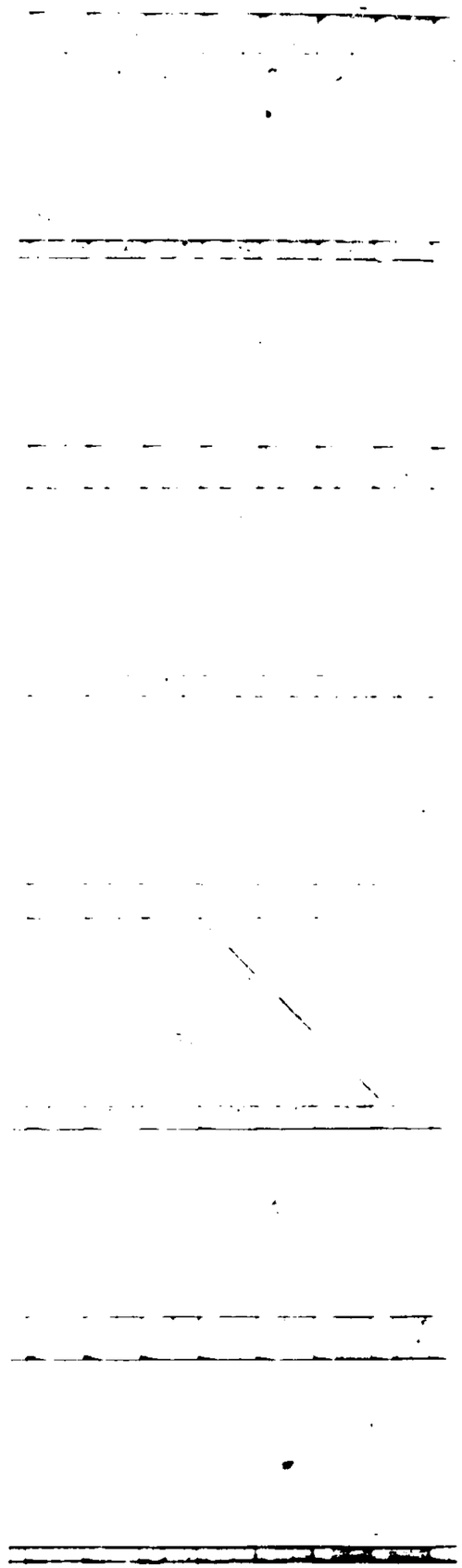
COORDENADAS NODALES

NODO

1	0.000	0.000
2	0.725	0.540
3	1.087	1.080
4	0.725	1.620
5	0.000	2.160
6	1.087	2.160
7	1.450	2.700
8	0.725	2.700
9	0.000	3.240
10	1.087	3.240
11	1.450	3.780
12	0.725	3.780
13	0.000	4.320
14	1.450	4.320
15	1.087	4.860
16	0.725	4.860
17	0.000	5.400
18	1.087	5.400
19	0.725	5.940
20	0.000	5.940
21	0.000	6.480
22	0.362	6.480
23	0.362	2.160
24	1.450	3.780
25	1.450	4.320
26	1.087	4.320
27	1.450	4.860
28	1.450	5.400
29	1.087	5.400
30	1.450	5.940
31	1.450	6.480
32	1.087	6.480

33	0.725	6.480
34	0.725	5.940
35	0.262	6.480
36	0.000	6.480
37	0.000	5.940
38	2.471	1.016
39	2.471	1.524
40	2.471	2.031
41	1.961	2.096
42	1.450	1.620
43	1.450	1.080
44	1.961	1.048
45	2.471	2.539
46	2.471	3.047
47	1.961	3.144
48	0.725	1.620
49	0.725	1.080
50	1.087	1.080
51	2.471	3.555
52	2.471	4.063
53	1.961	4.191
54	0.000	1.620
55	0.000	1.080
56	0.362	1.080
57	2.471	4.571
58	2.471	5.079
59	1.961	5.229
60	2.471	5.586
61	2.471	6.094
62	1.961	6.287
63	2.471	6.602
64	2.471	7.110
65	1.961	7.335
66	1.451	7.366
67	1.451	7.120
68	1.787	7.560
69	0.725	7.560
70	0.725	7.080
71	0.362	7.560
72	0.000	7.560
73	0.000	7.080
74	3.493	0.000
75	3.493	0.476
76	3.493	0.951
77	2.994	0.984
78	2.471	0.508
79	2.471	0.000
80	2.982	0.000
81	1.450	0.540
82	1.450	0.000
83	1.961	0.000
84	3.493	1.427
85	3.493	1.903
86	2.982	1.967
87	3.493	2.379
88	3.493	2.854
89	2.982	2.951
90	0.725	0.540

91	0.725	0.000
92	1.087	0.000
93	3.493	3.330
94	3.493	3.806
95	2.982	3.934
96	0.000	0.540
97	0.000	0.000
98	0.362	0.000
99	3.493	4.281
100	3.493	4.757
101	2.982	4.918
102	3.493	5.233
103	3.493	5.709
104	2.982	5.901
105	3.493	6.184
106	3.493	6.660
107	2.982	6.885
108	3.493	7.136
109	3.493	7.611
110	2.982	7.869
111	2.471	8.126
112	2.471	7.618
113	1.961	8.383
114	1.450	8.640
115	1.450	8.100
116	1.087	8.640
117	0.725	8.640
118	0.725	8.100
119	0.362	8.640
120	0.000	8.640
121	0.000	8.100
122	4.514	0.000
123	4.514	0.444
124	4.514	0.887
125	4.004	0.919
126	4.004	0.000
127	4.514	1.331
128	4.514	1.774
129	4.004	1.839
130	4.514	2.218
131	4.514	2.661
132	4.004	2.758
133	4.514	3.105
134	4.514	3.549
135	4.004	3.677
136	4.514	3.992
137	4.514	4.436
138	4.004	4.596
139	4.514	4.879
140	4.514	5.323
141	4.004	5.516
142	4.514	5.766
143	4.514	6.210
144	4.004	6.435
145	4.514	6.654
146	4.514	7.097
147	4.004	7.354
148	4.514	7.541

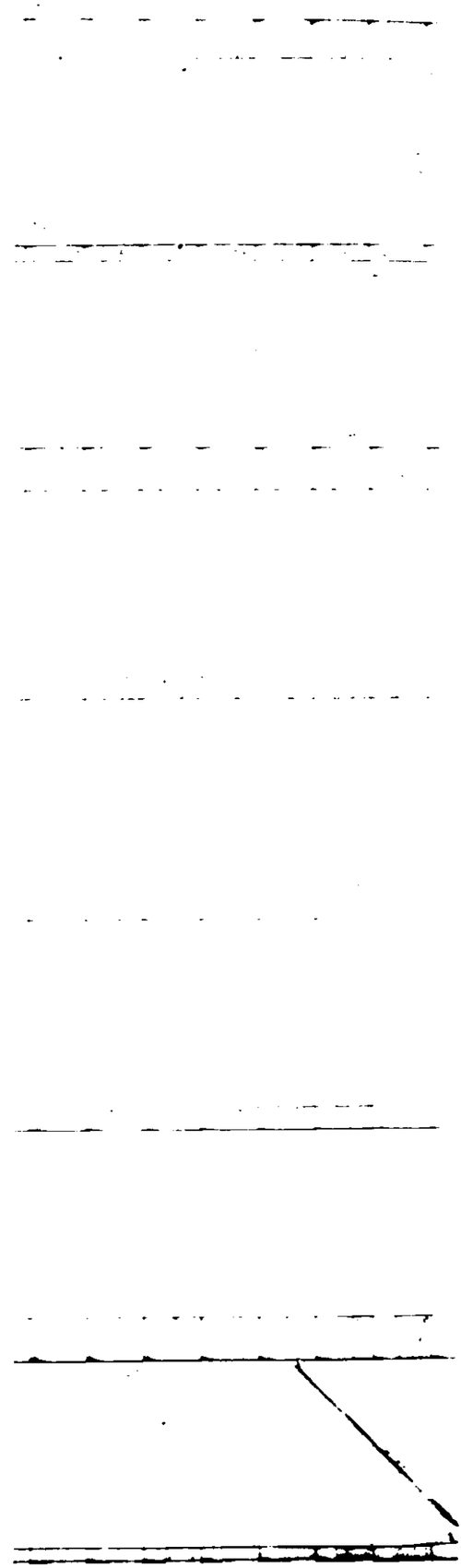


149	4.514	7.984
150	4.004	8.274
151	3.493	9.563
152	3.493	8.087
153	2.982	8.852
154	2.471	9.141
155	2.471	8.634
156	1.961	9.431
157	1.450	9.720
158	1.450	9.180
159	1.087	9.720
160	0.725	9.720
161	0.725	9.180
162	0.362	9.720
163	0.000	9.720
164	0.000	9.180
165	5.536	0.000
166	5.536	0.411
167	5.536	0.823
168	5.025	0.855
169	5.025	0.000
170	5.536	1.234
171	5.536	1.646
172	5.025	1.710
173	5.536	2.057
174	5.536	2.469
175	5.025	2.565
176	5.536	2.880
177	5.536	3.291
178	5.025	3.420
179	5.536	3.703
180	5.536	4.114
181	5.025	4.275
182	5.536	4.526
183	5.536	4.937
184	5.025	5.130
185	5.536	5.349
186	5.536	5.760
187	5.025	5.985
188	5.536	6.171
189	5.536	6.583
190	5.025	6.840
191	5.536	6.994
192	5.536	7.406
193	5.025	7.695
194	5.536	7.817
195	5.536	8.229
196	5.025	8.550
197	4.514	8.871
198	4.514	8.428
199	4.004	9.193
200	3.493	9.514
201	3.493	9.039
202	2.982	9.836
203	2.471	10.157
204	2.471	9.649
205	1.961	10.479
206	1.450	10.800

207	1.450	10.260
208	1.087	10.800
209	0.725	10.800
210	0.725	10.260
211	0.362	10.800
212	0.000	10.800
213	0.000	10.260
214	6.557	0.000
215	6.557	0.379
216	6.557	0.759
217	6.046	0.791
218	6.046	0.000
219	6.557	1.138
220	6.557	1.517
221	6.046	1.581
222	6.557	1.896
223	6.557	2.276
224	6.046	2.372
225	6.557	2.655
226	6.557	3.034
227	6.046	3.163
228	6.557	3.414
229	6.557	3.793
230	6.046	3.954
231	6.557	4.172
232	6.557	4.551
233	6.046	4.744
234	6.557	4.931
235	6.557	5.310
236	6.046	5.535
237	6.557	5.689
238	6.557	6.069
239	6.046	6.326
240	6.557	6.448
241	6.557	6.827
242	6.046	7.116
243	6.557	7.206
244	6.557	7.586
245	6.046	7.907
246	7.579	0.000
247	7.579	0.347
248	7.579	0.694
249	7.068	0.726
250	7.068	0.000
251	7.579	1.041
252	7.579	1.389
253	7.068	1.453
254	7.579	1.736
255	7.579	2.083
256	7.068	2.179
257	7.579	2.430
258	7.579	2.777
259	7.068	2.906
260	7.579	3.124
261	7.579	3.471
262	7.068	3.632
263	7.579	3.819
264	7.579	4.166

265	7.068	4.359
266	7.579	4.513
267	7.579	4.880
268	7.068	5.085
269	7.579	5.207
270	7.579	5.554
271	7.068	5.811
272	7.579	5.901
273	7.579	6.249
274	7.068	6.538
275	7.579	6.596
276	7.579	6.943
277	7.068	7.264
278	8.600	0.000
279	8.600	0.315
280	8.600	0.630
281	8.089	0.662
282	8.089	0.000
283	8.600	0.945
284	8.600	1.260
285	8.089	1.324
286	8.600	1.575
287	8.600	1.890
288	8.089	1.986
289	8.600	2.205
290	8.600	2.520
291	8.089	2.649
292	8.600	2.835
293	8.600	3.150
294	8.089	3.311
295	8.600	3.465
296	8.600	3.780
297	8.089	3.973
298	8.600	4.095
299	8.600	4.410
300	8.089	4.635
301	8.600	4.725
302	8.600	5.040
303	8.089	5.297
304	8.600	5.355
305	8.600	5.670
306	8.089	5.959
307	8.600	5.985
308	8.600	6.300
309	8.089	6.621
310	9.621	0.000
311	9.621	0.283
312	9.621	0.566
313	9.111	0.598
314	9.111	0.000
315	9.621	0.849
316	9.621	1.131
317	9.111	1.196
318	9.621	1.414
319	9.621	1.697
320	9.111	1.794
321	9.621	1.980
322	9.621	2.263

323	9.111	2.391
324	9.621	2.546
325	9.621	2.629
326	9.111	2.989
327	9.621	3.111
328	9.621	3.394
329	9.111	3.587
330	9.621	3.677
331	9.621	3.960
332	9.111	4.185
333	9.621	4.243
334	9.621	4.526
335	9.111	4.783
336	9.621	4.809
337	9.621	5.091
338	9.111	5.381
339	9.621	5.374
340	9.621	5.657
341	9.111	5.979
342	10.643	0.000
343	10.643	0.251
344	10.643	0.501
345	10.132	0.534
346	10.132	0.000
347	10.643	0.752
348	10.643	1.003
349	10.132	1.067
350	10.643	1.254
351	10.643	1.504
352	10.132	1.601
353	10.643	1.755
354	10.643	2.006
355	10.132	2.134
356	10.643	2.256
357	10.643	2.507
358	10.132	2.668
359	10.643	2.758
360	10.643	3.009
361	10.132	3.201
362	10.643	3.259
363	10.643	3.510
364	10.132	3.735
365	10.643	3.761
366	10.643	4.011
367	10.132	4.269
368	10.643	4.262
369	10.643	4.513
370	10.132	4.802
371	10.643	4.764
372	10.643	5.014
373	10.132	5.336
374	11.664	0.000
375	11.664	0.219
376	11.664	0.437
377	11.154	0.469
378	11.154	0.000
379	11.664	0.656
380	11.664	0.874



391	11.154	0.839
392	11.664	1.002
393	11.664	1.311
394	11.154	1.419
395	11.664	1.630
396	11.664	1.749
397	11.154	1.877
398	11.664	1.987
399	11.664	2.186
400	11.154	2.346
401	11.664	2.464
402	11.664	2.583
403	11.154	2.816
404	11.664	2.941
405	11.664	3.060
406	11.154	3.365
407	11.664	3.479
408	11.664	3.487
409	11.154	3.784
410	11.154	3.796
411	11.664	3.914
412	11.154	4.284
413	11.664	4.783
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416	12.686	0.[illegible]
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423	12.686	2.[illegible]78
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425	12.175	2.985
426	12.686	3.051
427	12.686	3.227
428	12.175	3.430
429	12.686	3.424
430	12.686	3.[illegible]10
431	12.175	3.835
432	12.686	3.796
433	12.686	3.983
434	12.175	3.840
435	12.686	3.169
436	12.686	3.356
437	12.175	3.645
438	13.707	0.000

439	13.707	0.154
440	13.707	0.309
441	13.196	0.341
442	13.196	0.000
443	13.707	0.463
444	13.707	0.617
445	13.196	0.681
446	13.707	0.771
447	13.707	0.926
448	13.196	1.022
449	13.707	1.080
450	13.707	1.234
451	13.196	1.363
452	13.707	1.389
453	13.707	1.543
454	13.196	1.704
455	13.707	1.697
456	13.707	1.851
457	13.196	2.044
458	13.707	2.006
459	13.707	2.160
460	13.196	2.385
461	13.707	2.314
462	13.707	2.469
463	13.196	2.726
464	13.707	2.623
465	13.707	2.777
466	13.196	3.066
467	13.707	2.931
468	13.707	3.086
469	13.196	3.407
470	14.729	0.000
471	14.729	0.122
472	14.729	0.244
473	14.218	0.276
474	14.218	0.000
475	14.729	0.366
476	14.729	0.489
477	14.218	0.553
478	14.729	0.611
479	14.729	0.733
480	14.218	0.829
481	14.729	0.855
482	14.729	0.977
483	14.218	1.106
484	14.729	1.099
485	14.729	1.221
486	14.218	1.382
487	14.729	1.344
488	14.729	1.466
489	14.218	1.659
490	14.729	1.588
491	14.729	1.710
492	14.218	1.935
493	14.729	1.832
494	14.729	1.954
495	14.218	2.211
496	14.729	2.076

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ELEMENTOS

ELEMENTO	MATERIAL	NODO 1	NODO 2	NODO 3	NODO 4	NODO 5	NODO 6	NODO 7	NODO 8
1	1	502	503	504	505	472	471	470	506
2	2	471	471	472	473	440	439	438	474
3	3	438	439	440	441	408	407	406	442
4	4	406	407	408	409	376	375	374	410
5	5	374	375	376	377	344	343	342	378
6	6	342	343	344	345	312	311	310	346
7	7	310	311	312	313	280	279	278	314
8	8	278	279	280	281	248	247	246	282
9	9	246	247	248	249	216	215	214	250
10	10	214	215	216	217	167	166	165	218
11	11	165	166	167	168	124	123	122	169
12	12	122	123	124	125	76	75	74	126
13	13	74	75	76	77	38	78	79	80
14	14	79	78	38	44	43	81	82	83

15	1	504	507	508	509	476	475	472	505
16	2	472	475	476	477	444	443	440	473
17	3	440	443	444	445	412	411	408	441
18	4	408	411	412	413	380	379	376	409
19	5	376	379	380	381	348	347	344	377
20	6	344	347	348	349	316	315	312	345
21	7	312	315	316	317	284	283	280	313
22	8	280	283	284	285	252	251	248	281
23	9	248	251	252	253	220	219	216	249
24	10	216	219	220	221	171	170	167	217
25	11	167	170	171	172	128	127	124	168
26	12	124	127	128	129	85	84	76	125
27	13	76	84	85	86	40	39	38	77
28	14	38	39	40	41	14	42	43	44
29	1	508	510	511	512	479	478	476	509
30	2	476	478	479	480	447	446	444	477
31	3	444	446	447	448	415	414	412	445
32	4	412	414	415	416	383	382	380	413
33	5	380	382	383	384	351	350	348	381
34	6	348	350	351	352	319	318	316	349
35	7	316	318	319	320	287	286	284	317
36	8	284	286	287	288	255	254	252	285
37	9	252	254	255	256	223	222	220	253
38	10	220	222	223	224	174	173	171	221
39	11	171	173	174	175	131	130	128	172
40	12	125	130	131	132	88	87	85	129
41	13	85	87	88	89	46	45	40	86
42	14	40	45	46	47	16	15	14	41
43	1	511	513	514	515	482	481	479	512
44	2	479	481	482	483	450	449	447	480
45	3	447	449	450	451	418	417	415	448
46	4	415	417	418	419	386	385	383	416
47	5	383	385	386	387	354	353	351	384
48	6	351	353	354	355	322	321	319	352
49	7	319	321	322	323	290	289	287	320
50	8	287	289	290	291	258	257	255	288
51	9	255	257	258	259	226	225	223	256
52	10	223	225	226	227	177	176	174	224
53	11	174	176	177	178	134	133	131	175
54	12	131	133	134	135	94	93	88	132
55	13	88	93	94	95	52	51	46	89
56	14	46	51	52	53	25	24	16	47
57	1	514	516	517	518	485	484	482	515
58	2	482	484	485	486	453	452	450	483
59	3	450	452	453	454	421	420	418	451
60	4	418	420	421	422	389	388	386	419
61	5	386	388	389	390	357	356	354	387
62	6	354	356	357	358	325	324	322	355
63	7	322	324	325	326	293	292	290	323
64	8	290	292	293	294	261	260	258	291
65	9	258	260	261	262	229	228	226	259
66	10	226	228	229	230	180	179	177	227
67	11	177	179	180	181	137	136	134	178
68	12	134	136	137	138	100	99	94	135
69	13	94	99	100	101	58	57	52	95
70	14	52	57	58	59	28	27	25	53
71	1	517	519	520	521	488	487	485	518
72	2	485	487	488	489	456	455	453	486

73	3	453	455	456	457	424	423	421	454
74	4	421	423	424	425	392	391	389	422
75	5	389	391	392	393	360	359	357	390
76	6	357	359	360	361	328	327	325	358
77	7	325	327	328	329	296	295	293	326
78	8	293	295	296	297	264	263	261	294
79	9	261	263	264	265	232	231	229	262
80	10	229	231	232	233	183	182	180	230
81	11	180	182	183	184	140	139	137	181
82	12	137	139	140	141	103	102	100	138
83	13	100	102	103	104	61	60	58	101
84	14	58	60	61	62	31	30	28	59
85	1	520	522	523	524	491	490	488	521
86	2	188	490	491	492	459	458	456	489
87	3	456	458	459	460	427	426	424	457
88	4	424	426	427	428	395	394	392	425
89	5	392	394	395	396	363	362	360	393
90	6	360	362	363	364	331	330	328	361
91	7	328	330	331	332	299	298	296	329
92	8	296	298	299	300	267	266	264	297
93	9	264	266	267	268	235	234	232	265
94	10	232	234	235	236	186	185	183	233
95	11	183	185	186	187	143	142	140	184
96	12	140	142	143	144	106	105	103	141
97	13	103	105	106	107	64	63	61	104
98	14	61	63	64	65	66	67	31	62
99	1	523	525	526	527	494	493	491	524
100	2	491	493	494	495	462	461	459	492
101	3	459	461	462	463	430	429	427	460
102	4	427	429	430	431	398	397	395	428
103	5	395	397	398	399	366	365	363	396
104	6	363	365	366	367	334	333	331	364
105	7	331	333	334	335	302	301	299	332
106	8	299	301	302	303	270	269	267	300
107	9	267	269	270	271	238	237	235	268
108	10	235	237	238	239	189	188	186	236
109	11	186	188	189	190	146	145	143	187
110	12	143	145	146	147	109	108	106	144
111	13	106	108	109	110	111	112	64	107
112	14	64	112	111	113	114	115	66	65
113	1	526	528	529	530	497	496	494	527
114	2	494	496	497	498	465	464	462	495
115	3	462	464	465	466	433	432	430	463
116	4	430	432	433	434	401	400	398	431
117	5	398	400	401	402	369	368	366	399
118	6	366	368	369	370	337	336	334	367
119	7	334	336	337	338	305	304	302	335
120	8	302	304	305	306	273	272	270	303
121	9	270	272	273	274	241	240	238	271
122	10	238	240	241	242	192	191	189	239
123	11	189	191	192	193	149	148	146	190
124	12	146	148	149	150	151	152	109	147
125	13	109	152	151	153	154	155	111	110
126	14	111	155	154	156	157	158	114	113
127	1	529	531	532	533	500	499	497	530
128	2	497	499	500	501	468	467	465	498
129	3	465	467	468	469	436	435	433	466
130	4	433	435	436	437	404	403	401	434

131	5	401	403	404	405	372	371	369	402
132	6	369	371	372	373	340	339	337	370
133	7	337	339	340	341	308	307	305	338
134	8	305	307	308	309	276	275	273	306
135	9	273	275	276	277	244	243	241	274
136	10	241	243	244	245	195	194	192	242
137	11	192	194	195	196	197	198	149	193
138	12	149	198	197	199	200	201	151	150
139	13	151	201	200	202	203	204	154	153
140	14	154	204	203	205	206	207	157	156
141	15	82	81	43	50	49	90	91	92
142	15	91	90	49	56	55	96	97	98
143	15	43	42	14	20	19	48	49	50
144	15	49	48	19	23	22	54	55	56
145	15	14	15	16	17	2	18	19	20
146	15	19	18	2	8	7	21	22	23
147	15	16	24	25	26	4	3	2	17
148	15	2	3	4	1	5	6	7	8
149	15	25	27	28	29	10	9	4	26
150	15	4	9	10	11	12	13	5	1
151	15	28	30	31	32	33	34	10	29
152	15	10	34	33	35	36	37	12	11
153	15	31	67	66	68	69	70	33	32
154	15	33	70	69	71	72	73	36	35
155	15	66	115	114	116	117	118	69	68
56	15	69	118	117	119	120	121	72	71
157	15	114	158	157	159	160	161	117	116
158	15	117	161	160	162	163	164	120	119
159	15	157	207	206	208	209	210	160	159
160	15	160	210	209	211	212	213	163	162
161	16	96	0	0	0	0	0	0	0
162	16	54	0	0	0	0	0	0	0
163	16	21	0	0	0	0	0	0	0
164	16	6	0	0	0	0	0	0	0
165	16	13	0	0	0	0	0	0	0
166	16	37	0	0	0	0	0	0	0
167	16	73	0	0	0	0	0	0	0
168	16	121	0	0	0	0	0	0	0
169	16	164	0	0	0	0	0	0	0
170	17	96	0	0	0	0	0	0	0
171	17	54	0	0	0	0	0	0	0
172	17	21	0	0	0	0	0	0	0
173	17	6	0	0	0	0	0	0	0
174	17	13	0	0	0	0	0	0	0
175	17	37	0	0	0	0	0	0	0
176	17	73	0	0	0	0	0	0	0
177	17	121	0	0	0	0	0	0	0
178	17	164	0	0	0	0	0	0	0

PROPIEDADES DE LOS MATERIALES

MATERIAL 1 TIPO ELEMENTO 4

```
    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.84290E+00
    PUNTOS GAUSS    4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


MATERIAL     2     TIPO ELEMENTO   4

    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.92860E+00
    PUNTOS GAUSS    4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


MATERIAL     3     TIPO ELEMENTO   4

    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.10143E+01
    PUNTOS GAUSS    4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


MATERIAL     4     TIPO ELEMENTO   4

    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.11000E+01
    PUNTOS GAUSS    4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


MATERIAL     5     TIPO ELEMENTO   4

    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.11857E+01
    PUNTOS GAUSS    4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


MATERIAL     6     TIPO ELEMENTO   4

    MODUL.E         0.30000E+07
    COEF.POISSON    0.20000
    ESPESOR         0.12714E+01
```

PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 7 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.13571E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 8 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.14429E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 9 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.15856E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 10 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.16143E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 11 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.17000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 12 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.17857E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 13 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.16714E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 14 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.15571E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 15 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.20000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 16 TIPO ELEMENTO 9
MUELLE A CIMENTACION

RIGIDEZ 5000.00
DIRECCION 0.0000 1.0000 0.0000

MATERIAL 17 TIPO ELEMENTO 9
MUELLE A CIMENTACION

RIGIDEZ 6000.00
DIRECCION 1.0000 0.0000 0.0000

CONDICIONES BORDE

NODO	NODO 1	NODO 2

HIPOTESIS DE CARGA N. 1

Tipo	Load propio alcta			
ELEM. (/UD. ESPESOR)	1	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	2	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	3	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	4	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	5	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	6	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	7	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	8	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	9	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	10	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	11	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	12	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	13	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	14	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	15	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	16	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	17	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	18	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	19	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	20	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	21	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	22	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	23	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	24	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	25	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	26	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	27	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	28	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	29	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	30	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	31	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	32	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	33	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	34	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	35	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	36	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	37	CARGAS	0.000	-2.500
ELEM. (/UD. ESPESOR)	38	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	39	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	40	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	41	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	42	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	43	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	44	CARGAS	0.000	-2.500

C.U.ELEM. (/UD. ESPESOR)	45	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	46	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	47	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	48	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	49	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	50	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	51	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	52	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	53	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	54	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	55	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	56	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	57	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	58	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	59	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	60	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	61	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	62	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	63	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	64	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	65	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	66	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	67	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	68	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	69	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	70	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	71	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	72	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	73	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	74	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	75	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	76	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	77	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	78	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	79	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	80	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	81	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	82	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	83	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	84	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	85	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	86	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	87	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	88	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	89	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	90	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	91	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	92	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	93	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	94	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	95	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	96	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	97	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	98	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	99	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	100	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	101	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	102	CARGAS	0.000	-2.500

...ELEM. (/UD. ESPESOR)	103	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	104	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	105	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	106	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	107	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	108	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	109	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	110	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	111	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	112	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	113	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	114	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	115	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	116	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	117	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	118	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	119	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	120	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	121	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	122	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	123	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	124	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	125	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	126	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	127	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	128	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	129	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	130	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	131	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	132	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	133	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	134	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	135	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	136	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	137	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	138	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	139	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	140	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	141	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	142	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	143	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	144	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	145	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	146	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	147	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	148	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	149	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	150	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	151	CARGAS	0.000	-2.500
...ELEM. (/UD. ESPESOR)	152	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	153	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	154	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	155	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	156	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	157	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	158	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	159	CARGAS	0.000	-2.500
...U.ELEM. (/UD. ESPESOR)	160	CARGAS	0.000	-2.500

RESULTANTE Y MOMENTO DE LAS CARGAS EXTERIORES

RESULTANTE

0.00 -485.63

MOMENTO EN EL ORIGEN

-2186.55

elef Viaducto sobre el Ebro -aleta estribo 1-

hipo 1 peso propio aleta hP@(

HIPOTESIS NUMERO 1

DESPLAZAMIENTOS DE LOS NODOS

NUDO	DESP. X	DESP. Y
1	-0.002809	-0.011352
2	-0.008430	-0.013244
3	-0.005620	-0.013246
4	-0.002809	-0.013247
5	-0.002809	-0.009464
6	-0.005615	-0.009459
7	-0.008431	-0.009459
8	-0.008430	-0.011348
9	0.000001	-0.013249
10	0.002810	-0.013249
11	0.002810	-0.011355
12	0.002810	-0.009467
13	0.000001	-0.009463
14	-0.014068	-0.017036
15	-0.011251	-0.017035
16	-0.008436	-0.017035
17	-0.008433	-0.015137
18	-0.011245	-0.013244
19	-0.014057	-0.013241
20	-0.014063	-0.015136
21	-0.011235	-0.009452
22	-0.014058	-0.009451
23	-0.014058	-0.011344
24	-0.005623	-0.017036
25	-0.002810	-0.017036
26	-0.002809	-0.015139
27	0.000001	-0.017037
28	0.002813	-0.017038
29	0.002811	-0.015140
30	0.005624	-0.017038
31	0.008435	-0.017040
32	0.008432	-0.015142
33	0.008428	-0.013250
34	0.005620	-0.013251
35	0.008428	-0.011355
36	0.008428	-0.009467
37	0.005615	-0.009464
38	-0.020056	-0.022382
39	-0.017401	-0.022380
40	-0.014752	-0.022378
41	-0.014408	-0.019710
42	-0.016886	-0.017036

42	-0.[illegible]	-[illegible]
[illegible]	-0.[illegible]	-0.[illegible]
45	-0.[illegible]	-0.[illegible]
46	-0.[illegible]	-0.[illegible]
47	-0.[illegible]	-0.[illegible]
48	-0.[illegible]	-0.013242
49	-0.[illegible]	-0.[illegible]
50	-0.[illegible]	-0.[illegible]
51	-0.[illegible]	-0.[illegible]
52	-0.[illegible]	-0.[illegible]
53	-0.[illegible]	-0.[illegible]
54	-0.[illegible]	-0.[illegible]
55	-0.[illegible]	-0.[illegible]
56	-0.[illegible]	-0.[illegible]
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61	-0.[illegible]	-0.[illegible]
62	-0.[illegible]	-0.[illegible]
63	-0.[illegible]	-0.[illegible]
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65	-0.[illegible]	-0.[illegible]
66	-0.[illegible]	-0.[illegible]
67	-0.[illegible]	-0.[illegible]
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69	-0.[illegible]	-0.[illegible]
70	-0.[illegible]	-0.[illegible]
71	-0.[illegible]	-0.[illegible]
72	-0.[illegible]	-0.[illegible]
73	-0.[illegible]	-0.[illegible]
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75	-0.[illegible]	-0.[illegible]
76	-0.[illegible]	-0.[illegible]
77	-0.[illegible]	-0.[illegible]
78	-0.[illegible]	-0.[illegible]
79	-0.[illegible]	-0.[illegible]
80	-0.[illegible]	-0.[illegible]
81	-0.[illegible]	-0.[illegible]
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83	-0.[illegible]	-0.[illegible]
84	-0.[illegible]	-0.[illegible]
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102	0.001948	-0.027782
103	0.004430	-0.027782
104	0.005429	-0.025050
105	0.006907	-0.027783
106	0.009389	-0.027784
107	0.010558	-0.025052
108	0.011871	-0.027785
109	0.014349	-0.027786
110	0.015690	-0.025056
111	0.017024	-0.022389
112	0.014375	-0.022388
113	0.018360	-0.019719
114	0.019694	-0.017047
115	0.016876	-0.017045
116	0.019688	-0.015147
117	0.019680	-0.013252
118	0.016867	-0.013252
119	0.019680	-0.011351
120	0.019681	-0.009458
121	0.016851	-0.009458
122	-0.025394	-0.033075
123	-0.023070	-0.033074
124	-0.020752	-0.033073
125	-0.020580	-0.030404
126	-0.025388	-0.030406
127	-0.018430	-0.033072
128	-0.018114	-0.033071
129	-0.015770	-0.030401
130	-0.013793	-0.033070
131	-0.011478	-0.033068
132	-0.010968	-0.030399
133	-0.009159	-0.033067
134	-0.006840	-0.033066
135	-0.006170	-0.030397
136	-0.004827	-0.033066
137	-0.003209	-0.033065
138	-0.001774	-0.030396
139	0.000103	-0.033065
140	0.003420	-0.033064
141	0.003426	-0.030396
142	0.004732	-0.033064
143	0.007049	-0.033064
144	0.008219	-0.030397
145	0.009365	-0.033065
146	0.011676	-0.033065
147	0.013013	-0.030398
148	0.013993	-0.033065
149	0.016304	-0.033065
150	0.017812	-0.030399
151	0.019315	-0.027729
152	0.016832	-0.027728
153	0.020818	-0.025059
154	0.022322	-0.022389
155	0.019676	-0.022387
156	0.023833	-0.019724
157	0.025341	-0.017052
158	0.022516	-0.017050

159	0.025338	-0.015152
160	0.025334	-0.013255
161	0.022507	-0.013254
162	0.025335	-0.011352
163	0.025335	-0.009447
164	0.022486	-0.009449
165	-0.025404	-0.038425
166	-0.023252	-0.038424
167	-0.021096	-0.038423
168	-0.020924	-0.035748
169	-0.025399	-0.035750
170	-0.018946	-0.038422
171	-0.016790	-0.038421
172	-0.016452	-0.035746
173	-0.014641	-0.038420
174	-0.012487	-0.038419
175	-0.011982	-0.035744
176	-0.010338	-0.038418
177	-0.008190	-0.038417
178	-0.007515	-0.035742
179	-0.006038	-0.038416
180	-0.003891	-0.038415
181	-0.003050	-0.035740
182	-0.001739	-0.038415
183	0.001408	-0.038414
184	0.001414	-0.035739
185	0.002559	-0.038413
186	0.004705	-0.038413
187	0.005377	-0.035738
188	0.006850	-0.038413
189	0.009001	-0.038412
190	0.009339	-0.035738
191	0.011146	-0.038412
192	0.013297	-0.038411
193	0.013800	-0.035738
194	0.015441	-0.038411
195	0.017591	-0.038410
196	0.018260	-0.035737
197	0.020330	-0.033065
198	0.015620	-0.033065
199	0.022605	-0.030399
200	0.024276	-0.027729
201	0.021796	-0.027730
202	0.025954	-0.025061
203	0.027329	-0.022391
204	0.024976	-0.022391
205	0.029313	-0.019726
206	0.030996	-0.017052
207	0.028167	-0.017053
208	0.030996	-0.015152
209	0.030997	-0.013255
210	0.028167	-0.013255
211	0.030997	-0.011351
212	0.030997	-0.009456
213	0.028168	-0.009452
214	-0.025413	-0.043771
215	-0.023429	-0.043770
216	-0.021439	-0.043770

217	-0.021268	-0.041094
218	-0.025409	-0.041095
219	-0.019455	-0.043769
220	-0.017472	-0.043768
221	-0.017134	-0.041092
222	-0.015489	-0.043767
223	-0.013501	-0.043766
224	-0.012997	-0.041090
225	-0.011519	-0.043765
226	-0.009537	-0.043764
227	-0.008861	-0.041088
228	-0.007550	-0.043763
229	-0.005569	-0.043762
230	-0.004727	-0.041086
231	-0.003588	-0.043762
232	-0.001607	-0.043761
233	-0.000600	-0.041084
234	0.000378	-0.043760
235	0.002358	-0.043759
236	0.003532	-0.041083
237	0.004338	-0.043759
238	0.006323	-0.043758
239	0.007663	-0.041082
240	0.009303	-0.043757
241	0.010282	-0.043757
242	0.011787	-0.041081
243	0.013261	-0.043756
244	0.014245	-0.043755
245	0.015916	-0.041080
246	-0.025422	-0.049124
247	-0.023604	-0.049124
248	-0.021787	-0.049123
249	-0.021616	-0.046446
250	-0.025418	-0.046447
251	-0.019970	-0.049122
252	-0.018148	-0.049122
253	-0.017810	-0.046445
254	-0.016331	-0.049121
255	-0.014515	-0.049120
256	-0.014011	-0.046443
257	-0.012699	-0.049119
258	-0.010884	-0.049118
259	-0.010208	-0.046441
260	-0.009068	-0.049118
261	-0.007253	-0.049117
262	-0.006411	-0.046439
263	-0.005433	-0.049116
264	-0.003619	-0.049115
265	-0.002610	-0.046438
266	-0.001804	-0.049114
267	0.000010	-0.049113
268	0.001184	-0.046436
269	0.001824	-0.049113
270	0.003638	-0.049112
271	0.004978	-0.046435
272	0.005451	-0.049111
273	0.007270	-0.049111
274	0.008776	-0.046433

275	0.009083	-0.049110
276	0.010896	-0.049109
277	0.012568	-0.046432
278	-0.026430	-0.054474
279	-0.023779	-0.054474
280	-0.022129	-0.054473
281	-0.021958	-0.051795
282	-0.025426	-0.051796
283	-0.020478	-0.054473
284	-0.018829	-0.054472
285	-0.016491	-0.051794
286	-0.017179	-0.054472
287	-0.015529	-0.054471
288	-0.015025	-0.051793
289	-0.013890	-0.054470
290	-0.012231	-0.054470
291	-0.011555	-0.051791
292	-0.010592	-0.054469
293	-0.009034	-0.054468
294	-0.008091	-0.051790
295	-0.007385	-0.054467
296	-0.005837	-0.054467
297	-0.004628	-0.051788
298	-0.003789	-0.054466
299	-0.002541	-0.054465
300	-0.001168	-0.051786
301	-0.000113	-0.054464
302	0.000755	-0.054464
303	0.002019	-0.051785
304	0.003110	-0.054463
305	0.004250	-0.054463
306	0.005784	-0.051784
307	0.006997	-0.054463
308	0.007944	-0.054461
309	0.009275	-0.051782
310	0.010319	-0.054461
311	0.011234	-0.054460
312	0.012819	-0.057152
313	0.013734	-0.057152
314	0.014967	-0.059825
315	0.016509	-0.059825
316	0.017166	-0.057151
317	0.018926	-0.059824
318	0.019544	-0.059824
319	0.020634	-0.057150
320	0.021061	-0.059823
321	0.022579	-0.059823
322	0.022908	-0.057149
323	0.024097	-0.059822
324	0.024615	-0.059821
325	0.025777	-0.057147
326	0.026138	-0.059821
327	0.027657	-0.059820
328	0.028647	-0.057146
329	0.029175	-0.059820
330	0.030694	-0.059819
331	0.031517	-0.057145
332		

333	-0.003212	-0.059819
334	-0.001731	-0.059818
335	-0.000388	-0.057143
336	-0.000250	-0.059817
337	0.001226	-0.059817
338	0.002741	-0.057142
339	0.002707	-0.059816
340	0.004188	-0.059816
341	0.005869	-0.057141
342	-0.025443	-0.065186
343	-0.024127	-0.065186
344	-0.022816	-0.065185
345	-0.022640	-0.062505
346	-0.025440	-0.062506
347	-0.021500	-0.065185
348	-0.020184	-0.065185
349	-0.019846	-0.062504
350	-0.018868	-0.065184
351	-0.017558	-0.065184
352	-0.017048	-0.062504
353	-0.016242	-0.065183
354	-0.014927	-0.065183
355	-0.014256	-0.062503
356	-0.013617	-0.065182
357	-0.012302	-0.065182
358	-0.011458	-0.062502
359	-0.010987	-0.065182
360	-0.009672	-0.065181
361	-0.008667	-0.062501
362	-0.008363	-0.065181
363	-0.007048	-0.065180
364	-0.005870	-0.062499
365	-0.003733	-0.065180
366	-0.004424	-0.065179
367	-0.003074	-0.062498
368	-0.003109	-0.065179
369	-0.001795	-0.065179
370	-0.000284	-0.062498
371	-0.000480	-0.065178
372	0.000829	-0.065178
373	0.002512	-0.062497
374	-0.025448	-0.070542
375	-0.024299	-0.070542
376	-0.023155	-0.070542
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378	-0.025446	-0.067866
379	-0.022007	-0.070541
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383	-0.018578	-0.070541
384	-0.018062	-0.067865
385	-0.017424	-0.070540
386	-0.016276	-0.070540
387	-0.015604	-0.067864
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389	-0.013985	-0.070539
390	-0.013146	-0.067863

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393	-0.010683	-0.067862
394	-0.010552	-0.070538
395	-0.009404	-0.070538
396	-0.008226	-0.067862
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398	-0.007114	-0.070537
399	-0.005769	-0.067861
400	-0.005966	-0.070537
401	-0.004824	-0.070537
402	-0.003306	-0.067860
403	-0.003676	-0.070536
404	-0.002534	-0.070536
405	-0.000949	-0.067860
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407	-0.024476	-0.075905
408	-0.023494	-0.075905
409	-0.023325	-0.073223
410	-0.024450	-0.073223
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412	-0.021537	-0.075904
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415	-0.019581	-0.075904
416	-0.019076	-0.073222
417	-0.018605	-0.075904
418	-0.017630	-0.075904
419	-0.016953	-0.073222
420	-0.016049	-0.075903
421	-0.015674	-0.075903
422	-0.014829	-0.073221
423	-0.014693	-0.075903
424	-0.013718	-0.075903
425	-0.013706	-0.073221
426	-0.012737	-0.075902
427	-0.011762	-0.075902
428	-0.010583	-0.073220
429	-0.010787	-0.075902
430	-0.009806	-0.075902
431	-0.008460	-0.073219
432	-0.008831	-0.075902
433	-0.007850	-0.075901
434	-0.006337	-0.073219
435	-0.006875	-0.075901
436	-0.005895	-0.075901
437	-0.004214	-0.073219
438	-0.025454	-0.081264
439	-0.024646	-0.081264
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442	-0.025453	-0.078582
443	-0.023024	-0.081264
444	-0.022216	-0.081263
445	-0.021879	-0.078581
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453	-0.017358	-0.081263
454	-0.016513	-0.078580
455	-0.016550	-0.081262
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463	-0.011153	-0.078579
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471	-0.024815	-0.086628
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479	-0.021608	-0.086628
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481	-0.020968	-0.086628
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532	-0.016705	-0.091986
533	-0.015335	-0.089304

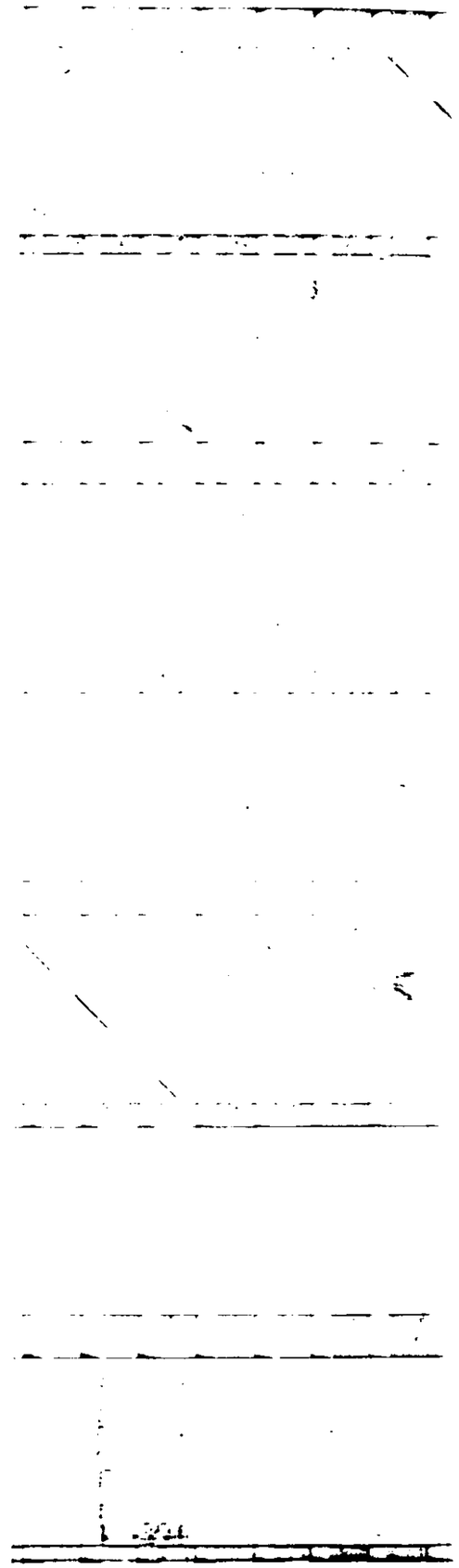
TOTAL DISPLACEMENT OF ELEMENTS

ELEM		TX	TY	TXY	TZ	ALFA		TE
1	1	13.53	0.04	-0.4	0.2	0.0	0.0	-87.37	0.2	-0.4
1	3	13.53	0.15	-0.3	0.5	-0.3	0.0	-78.51	0.6	-0.2
1	3	13.74	0.18	-1.6	0.2	-0.4	0.0	-78.60	0.3	-1.6
1	4	13.94	0.15	-1.8	0.2	-0.2	0.0	-84.56	0.2	-1.8
2	1	14.8	0.05	-2.5	0.1	0.0	0.0	89.59	0.1	-2.5
2	3	14.2	0.20	-2.3	0.3	-0.5	0.0	-80.30	0.4	-2.4
2	3	13.92	0.23	-4.0	0.4	-0.7	0.0	-80.65	0.5	-4.1
2	4	13.93	0.06	-4.0	0.2	-0.2	0.0	-86.79	0.2	-4.0
3	1	13.49	0.07	-5.3	0.4	-0.3	0.0	-87.27	0.4	-5.3
3	2	13.49	0.25	-5.0	0.4	-1.1	0.0	-79.46	0.6	-5.3
3	3	12.90	0.28	-7.2	0.6	-1.2	0.0	-81.52	0.8	-7.4
3	4	12.90	0.08	-7.9	0.3	-0.4	0.0	-87.39	0.3	-7.9
4	1	12.47	0.08	-9.1	0.3	-0.3	0.0	-88.07	0.3	-9.1
4	2	12.47	0.30	-8.2	0.8	-1.3	0.0	-82.15	1.0	-8.4
4	3	11.98	0.33	-10.5	0.6	-1.4	0.0	-82.68	0.8	-10.7
4	4	11.98	0.09	-11.7	0.1	-0.5	0.0	-87.69	0.1	-11.7
5	1	11.45	0.10	-12.6	0.2	-0.4	0.0	-88.27	0.2	-12.6
5	2	11.45	0.36	-11.3	0.9	-1.5	0.0	-83.05	1.1	-11.5
5	3	10.86	0.38	-13.5	0.8	-1.7	0.0	-82.37	1.0	-13.7
5	4	10.86	0.10	-15.2	0.2	-0.5	0.0	-88.19	0.2	-15.2
6	1	10.43	0.11	-15.9	0.4	-0.4	0.0	-88.48	0.4	-15.9
6	2	10.43	0.41	-14.1	1.1	-1.6	0.0	-84.08	1.3	-14.3
6	3	9.84	0.44	-16.2	0.9	-1.8	0.0	-84.21	1.1	-16.4
6	4	9.84	0.12	-18.3	0.2	-0.5	0.0	-88.42	0.2	-18.3
7	1	9.41	0.12	-18.7	0.4	-0.5	0.0	-88.63	0.4	-18.7

7	2	9.41	0.46	-16.6	1.2	-1.7	0.0	-84.54	1.4	-16.3
7	3	8.82	0.49	-18.7	1.1	-1.9	0.0	-84.63	1.3	-18.8
7	4	8.82	0.13	-21.0	0.2	-0.5	0.0	-88.59	0.2	-21.0
8	1	8.38	0.14	-21.3	0.4	-0.5	0.0	-88.63	0.4	-21.3
8	2	8.38	0.51	-19.0	1.3	-1.9	0.0	-84.79	1.5	19.1
8	3	7.79	0.54	-20.9	1.3	-2.0	0.0	-84.82	1.5	-21.1
8	4	7.79	0.14	-23.5	0.3	-0.6	0.0	-88.63	0.3	-23.5
9	1	7.36	0.15	-23.7	0.5	-0.5	0.0	-88.75	0.5	-23.7
9	2	7.36	0.56	-21.2	1.4	-2.0	0.0	-84.89	1.6	-21.3
9	3	6.77	0.59	-23.2	1.3	-2.2	0.0	-84.93	1.5	-23.4
9	4	6.77	0.16	-25.8	0.3	-0.6	0.0	-88.73	0.3	-25.8
10	1	6.34	0.16	-26.0	0.5	-0.6	0.0	-88.70	0.5	-26.0
10	2	6.34	0.61	-23.4	1.6	-2.2	0.0	-84.96	1.8	-23.6
10	3	5.75	0.64	-25.5	1.4	-2.4	0.0	-84.85	1.7	-25.7
10	4	5.75	0.17	-28.1	0.4	-0.6	0.0	-88.77	0.4	-28.1
11	1	5.32	0.18	-28.2	0.5	-0.6	0.0	-88.78	0.6	-28.2
11	2	5.32	0.66	-25.6	1.6	-2.5	0.0	-84.87	1.9	-25.9
11	3	4.73	0.69	-27.9	1.5	-2.7	0.0	-84.86	1.8	-28.1
11	4	4.73	0.18	-30.4	0.4	-0.7	0.0	-88.66	0.4	-30.4
12	1	4.30	0.19	-30.4	0.6	-0.7	0.0	-88.79	0.6	-30.4
12	2	4.30	0.71	-28.3	1.9	-2.8	0.0	-84.83	2.1	-28.5
12	3	3.71	0.74	-30.9	1.8	-3.2	0.0	-84.56	2.1	-31.2
12	4	3.71	0.20	-32.5	0.4	-0.6	0.0	-89.01	0.4	-32.5
13	1	3.28	0.20	-32.7	0.4	-0.7	0.0	-88.72	0.4	-32.7
13	2	3.28	0.76	-31.2	1.8	-3.0	0.0	-84.81	2.1	-31.5
13	3	2.69	0.79	-34.5	1.7	-2.7	0.0	-85.74	1.9	-34.7
13	4	2.69	0.21	-34.7	0.8	-0.9	0.0	-88.47	0.9	-34.7
14	1	2.26	0.22	-34.0	1.6	-0.1	0.0	-89.89	1.6	-34.0
14	2	2.26	0.81	-36.3	2.8	-3.3	0.0	-85.22	3.1	-36.6
14	3	1.67	0.84	-41.7	2.1	-6.4	0.0	-81.99	3.0	-42.6
14	4	1.67	0.23	-35.9	-0.7	0.8	0.0	88.69	-0.7	-35.9
15	1	15.53	0.23	-0.2	0.9	-0.4	0.0	-71.42	1.1	-0.4
15	2	15.53	0.35	-0.2	0.9	-0.6	0.0	-67.39	1.2	-0.5
15	3	14.94	0.41	-1.2	0.6	-1.1	0.0	-65.22	1.2	-1.7
15	4	14.94	0.28	-1.5	0.2	-0.7	0.0	-71.33	0.5	-1.7
16	1	14.51	0.31	-2.1	0.6	-0.7	0.0	-76.99	0.8	-2.3
16	2	14.51	0.46	-2.0	0.9	-1.0	0.0	-72.80	1.2	-2.3
16	3	13.92	0.53	-3.4	1.2	-1.7	0.0	-71.53	1.8	-4.0
16	4	13.92	0.36	-3.7	0.9	-1.1	0.0	-76.93	1.2	-4.0
17	1	13.49	0.39	-4.6	1.3	-1.6	0.0	-76.19	1.7	-5.0
17	2	13.49	0.58	-4.2	1.3	-2.0	0.0	-72.17	2.0	-4.9
17	3	12.90	0.64	-5.9	1.4	-2.6	0.0	-72.17	2.3	-6.7
17	4	12.90	0.44	-6.6	1.1	-1.8	0.0	-77.69	1.5	-7.0
18	1	12.47	0.47	-7.6	1.3	-1.9	0.0	-78.48	1.6	-7.9
18	2	12.47	0.69	-6.6	1.7	-2.6	0.0	-73.76	2.4	-7.4
18	3	11.88	0.76	-8.4	1.8	-3.1	0.0	-74.30	2.6	-9.2
18	4	11.88	0.51	-9.5	1.3	-2.2	0.0	-79.11	1.7	-10.0
19	1	11.45	0.55	-10.3	1.4	-2.3	0.0	-79.31	1.9	-10.7
19	2	11.45	0.81	-9.0	2.1	-3.2	0.0	-74.92	2.9	-9.8
19	3	10.86	0.87	-10.6	2.0	-3.6	0.0	-75.33	3.0	-11.6
19	4	10.86	0.59	-12.3	1.4	-2.5	0.0	-79.93	1.9	-12.7
20	1	10.43	0.62	-12.8	1.6	-2.4	0.0	-80.68	2.0	-13.2
20	2	10.43	0.92	-11.1	2.2	-3.4	0.0	-76.27	3.0	-11.9
20	3	9.84	0.99	-12.7	2.3	-3.8	0.0	-76.60	3.2	-13.6
20	4	9.84	0.67	-14.7	1.5	-2.7	0.0	-80.93	2.0	-15.2
21	1	9.41	0.70	-15.1	1.9	-2.6	0.0	-81.45	2.2	-15.5
21	2	9.41	1.04	-13.1	2.5	-3.8	0.0	-77.08	3.3	-13.9
21	3	8.82	1.10	-14.7	2.6	-4.1	0.0	-77.29	3.5	-15.6

31	4	8.88	0.75	17.0	1.8	-2.8	0.0	-81.61	2.8	-17.4
32	1	8.38	0.78	-17.3	2.0	-2.9	0.0	-81.64	2.4	-17.1
32	2	8.38	1.15	-15.0	2.8	-4.2	0.0	-77.43	3.7	-15.9
32	3	7.79	1.22	-16.6	2.9	-4.5	0.0	-77.57	3.9	-17.6
32	4	7.77	0.92	-19.1	1.9	-3.1	0.0	-81.81	2.4	-19.5
33	1	7.36	0.86	-19.3	2.2	-3.1	0.0	-81.94	2.6	-19.8
33	2	7.36	1.27	-16.8	3.0	-4.6	0.0	-77.66	4.0	-17.8
33	3	6.77	1.33	-18.5	3.1	-5.0	0.0	-77.64	4.2	-19.6
33	4	6.77	0.90	-21.2	2.1	-3.4	0.0	-81.94	2.6	-21.7
34	1	6.34	0.94	-21.4	2.3	-3.4	0.0	-82.01	2.8	-21.9
34	2	6.34	1.38	-18.8	3.2	-5.1	0.0	-77.61	4.3	-19.9
34	3	5.75	1.45	-20.6	3.2	-5.6	0.0	-77.32	4.5	-21.9
34	4	5.75	0.99	-23.4	2.2	-3.8	0.0	-81.81	2.8	-24.0
35	1	5.26	1.01	-23.8	2.5	-2.9	0.0	-81.80	3.0	-24.3
35	2	5.26	1.50	-21.0	3.3	-5.8	0.0	-77.19	4.7	-22.3
35	3	4.72	1.56	-23.2	3.4	-6.6	0.0	-76.75	4.9	-24.8
35	4	4.73	1.66	-26.1	2.4	-4.3	0.0	-81.51	3.0	-26.7
36	1	4.26	1.69	-26.6	2.7	-4.5	0.0	-81.47	3.3	-27.9
36	2	4.26	1.61	-23.9	3.5	-7.0	0.0	-76.42	5.2	-25.6
36	3	3.71	1.68	-26.7	3.2	-8.2	0.0	-75.64	5.3	-28.8
36	4	3.71	1.14	-29.3	2.7	-5.0	0.0	-81.34	3.1	30.1
37	1	3.29	1.17	-30.4	2.8	-5.2	0.0	-81.29	3.6	-31.2
37	2	3.29	1.73	-27.8	3.5	-8.7	0.0	-75.44	5.7	-30.1
37	3	2.67	1.79	-31.4	3.4	-10.3	0.0	-74.69	6.2	-34.2
37	4	2.67	1.21	34.3	2.4	-6.6	0.0	-80.09	3.6	-35.4
38	1	2.26	1.25	-35.9	2.9	-7.3	0.0	-79.74	4.2	-37.2
38	2	2.26	1.84	-33.5	2.2	-12.2	0.0	-72.79	6.0	-37.3
38	3	1.69	1.91	-39.2	-2.9	-17.2	0.0	-67.89	4.0	-45.2
38	4	1.69	1.29	-41.4	2.0	-8.3	0.0	-79.59	3.5	-42.9
39	1	12.52	0.67	-0.2	1.0	-0.7	0.0	-66.06	1.3	-0.5
39	2	12.52	1.34	0.0	1.6	-0.8	0.0	-66.97	2.0	-0.3
39	3	12.12	0.84	-0.8	1.2	-1.4	0.0	-64.35	1.5	-1.5
39	4	12.12	1.51	-1.1	0.7	-1.3	0.0	-62.06	1.4	-1.8
40	1	11.71	1.57	-1.2	1.0	-1.2	0.0	-69.02	1.8	-2.3
40	2	11.71	0.76	-1.6	1.3	-1.7	0.0	-64.70	2.1	-2.4
40	3	11.32	0.82	-2.7	1.9	-2.4	0.0	-66.75	3.0	-3.3
40	4	10.92	0.85	-3.2	1.3	-2.1	0.0	-68.40	2.1	-4.0
41	1	10.49	0.71	-3.8	1.6	-2.5	0.0	-69.87	2.6	-4.8
41	2	10.49	0.90	-3.3	1.9	-3.0	0.0	-65.33	3.0	-4.7
41	3	10.00	1.00	-4.5	2.3	-3.6	0.0	-66.59	3.8	-6.1
41	4	10.00	0.78	-5.3	1.7	-3.1	0.0	-69.60	2.9	-6.5
42	1	13.47	0.85	-6.0	2.0	-3.2	0.0	-70.67	3.1	-7.1
42	2	13.47	1.08	-5.0	2.4	-3.9	0.0	-66.75	4.1	-6.6
42	3	11.86	1.18	-6.2	2.7	-4.4	0.0	-67.69	4.6	-9.0
42	4	11.86	0.94	-7.5	2.2	-3.7	0.0	-71.37	3.5	-8.7
43	1	11.45	1.00	-8.0	2.4	-3.8	0.0	-71.74	3.6	-9.2
43	2	11.45	1.26	-6.6	2.9	-4.7	0.0	-67.79	4.9	-8.5
43	3	10.86	1.36	-7.7	3.1	-5.2	0.0	-68.18	5.2	-9.8
43	4	10.86	1.08	-9.4	2.5	-4.2	0.0	-72.27	3.9	-10.8
34	1	10.43	1.14	-9.8	2.7	-4.2	0.0	-73.13	4.0	-11.1
34	2	10.43	1.44	-8.0	3.4	-5.1	0.0	-69.01	5.3	-10.0
34	3	9.84	1.54	-9.2	3.6	-5.6	0.0	-69.35	5.7	-11.3
34	4	9.84	1.22	-11.2	2.8	-4.6	0.0	-73.51	4.2	-12.6
35	1	9.41	1.28	-11.5	3.1	-4.6	0.0	-73.96	4.4	-12.8
35	2	9.41	1.62	-9.5	3.8	-5.7	0.0	-69.77	5.9	-11.5
35	3	8.82	1.72	-10.6	4.0	-6.2	0.0	-69.87	6.3	-12.9
35	4	8.82	1.36	-13.0	3.2	-5.0	0.0	-74.14	4.6	-14.4
36	1	8.38	1.42	-13.2	3.4	-5.1	0.0	-74.35	4.9	-14.7

36	2	8.38	1.79	-10.8	4.2	-6.2	0.0	-70.26	6.5	-13.1
36	3	7.79	1.90	-12.0	4.4	-6.9	0.0	-70.08	6.9	-14.5
36	4	7.79	1.51	-14.7	3.5	-5.5	0.0	-74.38	5.1	-16.2
37	1	7.36	1.57	-14.9	3.7	-5.6	0.0	-74.58	5.2	-16.5
37	2	7.36	1.97	-12.3	4.5	-6.9	0.0	-70.28	7.0	-14.7
37	3	6.77	2.08	-13.5	4.5	-7.7	0.0	-69.84	7.3	-16.4
37	4	6.77	1.65	-16.5	3.7	-6.2	0.0	-74.29	5.4	-18.2
38	1	6.34	1.71	-16.7	3.8	-6.3	0.0	-74.26	5.6	-18.5
38	2	6.34	2.15	-13.8	4.6	-7.9	0.0	-69.74	7.6	-16.7
38	3	5.75	2.26	-15.3	4.5	-8.9	0.0	-68.99	7.9	-18.7
38	4	5.75	1.79	-18.4	3.8	-7.0	0.0	-73.85	5.9	-20.5
39	1	5.32	1.85	-18.8	3.9	-7.3	0.0	-73.64	6.1	-21.0
39	2	5.32	2.33	-15.6	4.5	-9.3	0.0	-68.67	8.1	-19.3
39	3	4.73	2.44	-17.3	4.3	-10.7	0.0	-67.67	8.7	-21.7
39	4	4.73	1.93	-20.9	3.8	-8.4	0.0	-72.88	6.4	-23.5
40	1	4.30	1.99	-21.6	3.9	-8.9	0.0	-72.52	6.8	-24.4
40	2	4.30	2.51	-17.9	4.2	-11.4	0.0	-67.00	9.0	-22.8
40	3	3.71	2.62	-20.1	3.5	-13.6	0.0	-65.47	9.7	-26.3
40	4	3.71	2.07	-24.2	3.8	-10.4	0.0	-71.69	7.2	-27.6
41	1	3.28	2.13	-25.2	3.6	-11.3	0.0	-70.86	7.5	-29.1
41	2	3.28	2.69	-20.7	3.2	-14.6	0.0	-64.65	10.1	-27.6
41	3	2.69	2.79	-22.7	2.1	-17.1	0.0	-63.00	10.8	-31.4
41	4	2.69	2.22	-28.8	2.0	-14.2	0.0	-68.65	7.6	-34.3
42	1	2.26	2.28	-29.4	1.2	-15.4	0.0	-67.40	7.6	-35.8
42	2	2.26	2.87	-23.6	0.2	-18.8	0.0	-61.17	10.5	-34.0
42	3	1.67	2.97	-25.7	-5.0	-22.6	0.0	-57.29	9.5	-40.2
42	4	1.67	2.36	-31.3	-1.0	-17.3	0.0	-65.62	6.9	-39.1
43	1	15.53	0.62	0.1	1.9	-0.9	0.0	-68.18	2.2	-0.3
43	2	15.53	0.73	-0.1	2.0	-0.9	0.0	-70.16	2.4	-0.4
43	3	14.94	0.87	-0.6	1.3	-2.1	0.0	-56.96	2.7	-1.9
43	4	14.94	0.74	-0.9	0.6	-1.6	0.0	-57.38	1.7	-1.9
44	1	14.51	0.83	-1.4	1.5	-2.0	0.0	-63.34	2.5	-2.4
44	2	14.51	0.98	-1.1	1.8	-2.0	0.0	-62.76	2.8	-2.2
44	3	13.92	1.12	-1.9	2.0	-3.3	0.0	-60.37	3.9	-3.8
44	4	13.92	0.95	-2.4	1.7	-2.7	0.0	-63.53	3.1	-3.8
45	1	13.49	1.03	-2.8	2.4	-3.4	0.0	-62.95	4.0	-4.5
45	2	13.49	1.22	-2.2	2.5	-3.6	0.0	-61.64	4.5	-4.2
45	3	12.90	1.36	-3.0	2.8	-4.6	0.0	-60.95	5.4	-5.6
45	4	12.90	1.15	-3.9	2.4	-4.0	0.0	-64.06	4.4	-5.8
46	1	12.47	1.24	-4.2	2.8	-4.3	0.0	-64.61	4.9	-6.3
46	2	12.47	1.46	-3.1	3.2	-4.8	0.0	-61.86	5.8	-5.7
46	3	11.88	1.60	-3.9	3.5	-5.7	0.0	-61.52	6.6	-7.0
46	4	11.88	1.36	-5.2	3.2	-4.9	0.0	-65.23	5.5	-7.5
47	1	11.45	1.45	-5.5	3.4	-5.2	0.0	-65.24	5.8	-7.9
47	2	11.45	1.71	-4.1	3.9	-5.8	0.0	-62.26	6.9	-7.1
47	3	10.86	1.85	-4.7	4.2	-6.6	0.0	-62.01	7.7	-8.2
47	4	10.86	1.57	-6.5	3.5	-5.8	0.0	-65.44	6.1	-9.1
48	1	10.43	1.65	-6.7	3.9	-5.8	0.0	-66.33	6.4	-9.3
48	2	10.43	1.95	-4.9	4.5	-6.5	0.0	-62.88	7.8	-8.2
48	3	9.84	2.09	-5.6	4.8	-7.2	0.0	-62.74	8.5	-9.3
48	4	9.84	1.77	-7.7	4.1	-6.4	0.0	-66.37	6.9	-10.4
49	1	9.41	1.86	-7.9	4.3	-6.4	0.0	-66.90	7.0	-10.6
49	2	9.41	2.19	-5.7	5.1	-7.4	0.0	-63.15	8.8	-9.4
49	3	8.82	2.34	-6.4	5.3	-8.1	0.0	-63.02	9.4	-10.6
49	4	8.82	1.98	-8.9	4.7	-7.0	0.0	-67.01	7.7	-11.8
50	1	8.38	2.07	-9.1	4.8	-7.1	0.0	-67.27	7.8	-12.0
50	2	8.38	2.44	-6.6	5.5	-8.1	0.0	-63.33	9.6	-10.7
50	3	7.79	2.58	-7.3	5.7	-9.0	0.0	-62.97	10.3	-11.9



		7.75	2.11	-10.1	4.9	-7.6	0.0	-66.15	8.4	-11.4
		7.26	2.27	-10.3	5.0	-7.9	0.0	-61.09	8.2	-11.2
		7.32	2.16	-7.5	5.7	-9.1	0.0	-62.12	7.4	-12.1
		6.11	2.02	-8.2	5.6	-10.1	0.0	-67.17	11.0	-13.5
		6.77	2.39	-11.4	5.0	-8.8	0.0	-66.55	8.6	-12.2
		6.64	2.40	-11.6	5.0	-9.0	0.0	-66.37	9.0	-12.4
		6.34	2.93	-8.4	5.6	-10.4	0.0	-61.91	11.8	-13.8
		7.18	2.07	-9.2	5.3	-11.8	0.0	-64.72	11.9	-12.8
		5.78	2.60	-12.8	4.9	-10.2	0.0	-65.51	9.6	-17.1
		5.32	2.69	-13.0	4.8	-10.7	0.0	-65.01	9.8	-18.0
		6.32	3.17	-9.3	5.1	-12.4	0.0	-60.07	12.2	-16.4
		4.72	3.21	-10.1	4.4	-14.3	0.0	-59.57	12.2	-18.9
		4.73	2.81	-14.5	4.4	-12.4	0.0	-63.68	10.5	-20.6
		4.70	2.89	-14.8	4.2	-13.2	0.0	-62.92	10.9	-21.6
		4.20	3.41	-10.3	3.9	-15.2	0.0	-57.34	13.6	-20.0
		3.71	3.55	-11.1	2.7	-17.9	0.0	-54.60	14.9	-23.9
		3.51	3.61	-16.4	3.5	-13.4	0.0	-61.43	11.9	-24.7
		2.98	3.10	-16.9	2.7	-16.7	0.0	-60.24	12.3	-26.4
		2.38	3.96	-10.9	2.0	-18.9	0.0	-54.40	15.5	-24.5
		2.20	3.30	-11.1	0.5	-21.6	0.0	-52.54	17.1	-27.7
		2.31	3.22	-19.5	0.6	-19.7	0.0	-57.87	13.9	-30.9
		2.46	3.21	-15.6	-0.6	-20.8	0.0	-56.35	13.2	-31.9
		2.21	3.70	-11.0	-1.4	-22.7	0.0	-50.99	17.0	-29.4
		1.81	4.04	-10.9	-5.3	-25.1	0.0	-49.19	17.2	-33.4
		1.21	3.43	-19.0	-2.7	-22.6	0.0	-54.39	13.5	-34.2
		2.82	0.16	-0.1	1.9	-0.8	0.0	-69.62	2.2	-0.4
		2.11	0.12	-0.1	1.7	-0.8	0.0	-65.13	2.0	-0.4
		1.74	0.14	-0.2	1.5	-2.7	0.0	-55.83	3.1	-1.9
		1.14	0.14	-0.3	1.2	-2.2	0.0	-55.64	2.3	-2.2
		1.19	0.19	-0.9	1.7	-2.2	0.0	-59.12	3.2	-2.2
		1.21	0.22	-0.6	1.8	-2.6	0.0	-57.72	2.9	-2.3
		1.12	0.21	-0.9	2.3	-3.6	0.0	-57.78	4.3	-3.3
		1.11	0.24	-1.5	2.2	-3.5	0.0	-59.75	4.1	-3.2
		1.11	0.26	-1.9	2.5	-2.9	0.0	-58.44	4.2	-4.1
		1.11	0.24	-1.0	2.7	-4.3	0.0	-56.57	5.6	-2.2
		1.11	0.28	-1.2	3.6	-5.3	0.0	-57.17	7.0	-4.3
		1.11	0.21	-2.3	3.0	-5.0	0.0	-59.06	6.0	-3.3
		1.11	0.23	-2.4	3.3	-5.2	0.0	-59.36	6.3	-3.7
		1.11	0.25	-1.2	3.7	-5.7	0.0	-58.71	7.4	-5.3
		1.11	2.03	-1.4	4.0	-6.6	0.0	-56.19	8.4	-5.8
		1.11	1.78	-2.8	3.7	-6.1	0.0	-59.22	7.4	-6.5
		1.11	1.90	-3.0	4.0	-6.2	0.0	-59.60	7.7	-6.7
		1.11	2.16	-1.4	4.5	-6.9	0.0	-56.63	9.1	-5.9
		10.80	2.34	-1.5	5.1	-7.8	0.0	-56.42	10.3	-6.7
		10.93	2.65	-3.4	4.5	-7.2	0.0	-59.49	8.7	-7.6
		10.43	2.17	-3.5	4.8	-7.1	0.0	-60.13	8.9	-7.6
		10.42	2.47	-1.6	5.4	-7.8	0.0	-57.00	10.5	-6.6
		9.84	2.64	-1.8	5.9	-8.7	0.0	-56.83	11.6	-7.5
		9.84	2.33	-4.0	5.2	-7.9	0.0	-60.06	9.8	-8.5
63	1	9.41	2.44	-4.1	5.5	-8.0	0.0	-60.51	10.0	-8.6
63	2	9.41	2.77	-1.8	6.1	-8.8	0.0	-57.13	11.9	-7.5
63	3	9.82	2.95	-2.0	6.4	-9.8	0.0	-56.69	12.8	-8.5
63	4	8.82	2.60	-4.6	5.7	-8.8	0.0	-60.22	10.8	-9.7
64	1	8.38	2.71	-4.7	6.0	-8.9	0.0	-60.54	11.1	-9.7
64	2	8.38	3.08	-2.1	6.6	-9.9	0.0	-56.84	13.1	-8.6
64	3	7.79	3.26	-2.3	6.7	-10.9	0.0	-56.27	14.0	-9.6
64	4	7.79	2.87	-5.2	6.1	-9.8	0.0	-60.01	11.8	-10.9
65	1	7.36	2.98	-5.3	6.3	-10.0	0.0	-60.05	12.0	-11.1

65	2	7.36	3.39	-2.3	6.8	-11.1	0.0	-56.18	14.9	-9.7
65	3	6.77	2.57	-2.5	6.6	-12.3	0.0	-55.11	15.2	-11.0
65	4	6.77	3.14	-5.8	6.1	-11.1	0.0	-59.19	13.7	-12.5
66	1	6.34	3.25	-5.9	5.9	-11.4	0.0	-59.66	13.9	-12.9
66	2	6.34	3.70	-2.4	6.3	-12.6	0.0	-54.54	15.2	-11.4
66	3	5.75	2.88	-2.4	5.7	-14.2	0.0	-53.01	16.4	-13.1
66	4	5.75	3.41	-6.4	5.5	-12.9	0.0	-57.37	13.8	-14.6
67	1	5.32	3.52	-6.4	5.1	-13.5	0.0	-56.54	14.0	-15.3
67	2	5.32	4.01	-2.2	5.1	-14.8	0.0	-52.00	16.7	-13.8
67	3	4.73	4.18	-1.9	4.1	-16.9	0.0	-50.07	18.2	-16.0
67	4	4.73	3.68	-6.8	4.3	-15.6	0.0	-54.81	15.3	-17.7
68	1	4.30	3.79	-6.6	3.6	-16.5	0.0	-53.65	15.7	-18.7
68	2	4.30	4.31	-1.5	3.1	-17.7	0.0	-48.71	18.7	-17.1
68	3	3.71	4.49	-0.7	1.5	-20.3	0.0	-46.55	20.7	-20.0
68	4	3.71	3.95	-6.7	2.5	-19.0	0.0	-51.78	17.5	-21.7
69	1	3.28	4.06	-6.4	1.3	-20.2	0.0	-50.39	18.0	-23.1
69	2	3.28	4.62	0.1	0.4	-21.3	0.0	-45.19	21.6	-21.1
69	3	2.69	4.80	1.6	-0.9	-24.0	0.0	-43.55	24.3	-23.6
69	4	2.69	4.22	-6.1	-0.9	-23.0	0.0	-48.24	19.7	-26.6
70	1	2.26	4.32	-5.0	-1.8	-23.8	0.0	-46.90	20.5	-27.3
70	2	2.26	4.93	2.5	-2.3	-24.6	0.0	-42.20	24.8	-24.6
70	3	1.67	5.11	4.3	-4.7	-26.1	0.0	-40.12	26.3	-26.7
70	4	1.67	4.49	-3.6	-2.4	-25.4	0.0	-45.65	22.4	-28.4
71	1	15.93	1.01	0.0	1.6	-0.9	0.0	-65.43	2.0	-0.4
71	2	15.82	1.12	0.1	1.6	-1.0	0.0	-64.22	2.1	-0.4
71	3	14.94	1.34	-0.1	1.6	-2.5	0.0	-54.21	3.4	-1.9
71	4	14.94	1.30	-0.2	1.7	-2.4	0.0	-55.47	3.3	-1.8
72	1	14.81	1.34	-0.3	1.8	-2.8	0.0	-59.57	3.7	-2.2
72	2	14.81	1.46	0.1	2.1	-2.7	0.0	-55.04	4.0	-1.8
72	3	14.64	1.71	0.2	2.6	-4.2	0.0	-53.06	5.8	-2.9
72	4	14.64	1.54	-0.4	2.5	-3.9	0.0	-55.55	5.8	-3.1
73	1	14.51	1.58	-0.4	3.0	-4.5	0.0	-55.33	6.1	-3.6
73	2	14.51	1.36	0.4	3.3	-4.7	0.0	-53.49	6.9	-3.1
73	3	14.11	2.05	0.7	3.9	-6.0	0.0	-52.34	8.5	-3.3
73	4	14.11	1.37	-0.5	3.4	-5.6	0.0	-54.66	7.4	-4.4
74	1	13.97	2.11	-0.4	3.9	-5.9	0.0	-54.92	8.1	-4.4
74	2	13.97	1.84	0.9	4.4	-6.2	0.0	-52.79	9.1	-3.8
74	3	13.88	2.45	1.3	4.8	-7.5	0.0	-51.48	10.7	-4.6
74	4	13.88	2.21	-0.3	4.5	-7.0	0.0	-54.35	9.5	-5.3
75	1	13.85	2.35	-0.2	4.8	-7.3	0.0	-54.46	10.1	-5.4
75	2	13.45	2.61	1.5	5.2	-7.8	0.0	-51.74	11.4	-4.6
75	3	13.54	2.82	1.9	5.7	-8.9	0.0	-51.12	12.9	-5.3
75	4	13.54	2.54	-0.1	5.3	-8.3	0.0	-54.04	11.3	-6.2
76	1	13.42	2.68	-0.1	5.7	-8.3	0.0	-54.59	11.6	-6.0
76	2	13.42	2.98	2.0	6.2	-9.0	0.0	-51.59	13.3	-5.2
76	3	9.94	3.20	2.3	6.7	-10.0	0.0	-51.24	14.7	-5.8
76	4	9.94	2.88	-0.1	6.2	-9.3	0.0	-54.37	12.9	-6.8
77	1	9.41	3.02	-0.1	6.6	-9.4	0.0	-54.75	13.2	-6.7
77	2	9.41	3.35	2.3	7.0	-10.2	0.0	-51.51	15.1	-5.8
77	3	8.82	3.57	2.6	7.3	-11.3	0.0	-50.90	16.5	-6.6
77	4	8.82	3.21	-0.1	6.9	-10.4	0.0	-54.20	14.4	-7.6
78	1	8.38	3.35	-0.1	7.0	-10.6	0.0	-54.31	14.6	-7.7
78	2	8.38	3.73	2.7	7.6	-11.4	0.0	-51.06	16.8	-6.5
78	3	7.79	3.94	3.0	7.7	-12.6	0.0	-50.29	18.2	-7.5
78	4	7.79	3.55	-0.1	7.2	-11.7	0.0	-53.63	15.7	-8.7
79	1	7.36	3.69	0.0	7.2	-11.8	0.0	-53.49	15.9	-8.8
79	2	7.36	4.10	3.1	7.6	-12.7	0.0	-49.99	18.3	-7.5
79	3	6.77	4.31	3.7	7.3	-14.0	0.0	-48.72	19.6	-8.7

79	4	6.77	3.88	0.1	6.9	-13.1	0.0	-58.27	17.0	-10.0
80	1	6.34	4.02	0.2	6.5	-13.4	0.0	-51.65	17.1	-10.4
80	2	6.34	4.47	3.9	6.8	-14.3	0.0	-47.98	19.7	-9.0
80	3	5.75	4.68	4.7	6.0	-15.8	0.0	-46.11	21.2	-10.5
80	4	5.75	4.22	0.6	5.8	-15.0	0.0	-49.96	18.4	-12.0
81	1	5.32	4.36	0.9	5.1	-15.5	0.0	-48.83	18.6	-12.6
81	2	5.32	4.84	5.3	5.0	-16.3	0.0	-44.79	21.4	-11.1
81	3	4.73	5.06	6.7	3.5	-18.2	0.0	-42.52	23.3	-13.2
81	4	4.73	4.55	1.7	3.8	-17.6	0.0	-46.70	20.4	-14.9
82	1	4.30	4.69	2.4	2.7	-18.4	0.0	-45.21	20.9	-15.8
82	2	4.30	5.21	7.6	2.1	-18.8	0.0	-40.84	23.8	-14.2
82	3	3.71	5.43	9.8	0.1	-21.0	0.0	-38.49	26.5	-16.6
82	4	3.71	4.89	3.8	1.1	-20.8	0.0	-43.15	23.1	-18.4
83	1	3.28	5.03	4.8	-0.4	-21.8	0.0	-41.60	24.2	-19.7
83	2	3.28	5.59	11.2	-1.3	-21.8	0.0	-36.99	27.7	-17.7
83	3	2.69	5.80	14.2	-2.3	-24.2	0.0	-35.60	31.5	-19.7
83	4	2.69	5.22	6.9	-2.2	-24.2	0.0	-39.67	27.0	-22.4
84	1	2.26	5.36	8.5	-2.8	-24.9	0.0	-38.64	28.4	-22.7
84	2	2.26	5.96	15.8	-3.4	-24.5	0.0	-34.33	32.5	-20.2
84	3	1.67	6.17	19.4	-4.1	-25.8	0.0	-32.72	35.9	-20.7
84	4	1.67	5.56	10.9	-1.6	-26.8	0.0	-38.42	32.1	-22.8
85	1	15.53	1.20	0.0	1.3	-1.0	0.0	-60.74	1.8	-0.5
85	2	15.53	1.31	0.1	1.4	-1.0	0.0	-61.82	2.0	-0.5
85	3	14.94	1.57	0.5	1.7	-2.6	0.0	-51.83	3.7	-1.6
85	4	14.94	1.43	0.1	1.6	-2.5	0.0	-53.40	3.5	-1.8
86	1	14.51	1.60	0.4	2.2	-2.8	0.0	-53.79	4.2	-1.7
86	2	14.51	1.75	0.8	2.1	-3.0	0.0	-51.02	4.5	-1.6
86	3	13.92	2.00	1.6	2.8	-4.4	0.0	-49.02	6.7	-2.3
86	4	13.92	1.83	0.8	2.7	-4.4	0.0	-51.32	6.3	-2.7
87	1	13.49	2.00	1.1	3.2	-4.8	0.0	-51.12	7.1	-2.8
87	2	13.49	2.19	2.0	3.2	-5.1	0.0	-48.30	7.8	-2.5
87	3	12.90	2.44	2.8	4.3	-6.5	0.0	-48.16	10.1	-3.0
87	4	12.90	2.23	1.6	3.8	-6.2	0.0	-50.20	9.0	-3.7
88	1	12.47	2.40	1.9	4.4	-6.5	0.0	-50.44	9.7	-3.5
88	2	12.47	2.62	3.3	4.6	-6.7	0.0	-47.81	10.7	-2.8
88	3	11.88	2.88	4.2	5.2	-8.1	0.0	-46.75	12.8	-3.4
88	4	11.88	2.63	2.6	5.0	-7.7	0.0	-49.42	11.6	-4.1
89	1	11.45	2.80	2.8	5.4	-8.1	0.0	-49.64	12.3	-4.1
89	2	11.45	3.06	4.6	5.7	-8.5	0.0	-46.87	13.7	-3.5
89	3	10.86	3.31	5.5	6.4	-9.8	0.0	-46.31	15.7	-3.9
89	4	10.86	3.03	3.4	5.9	-9.2	0.0	-48.97	14.0	-4.7
90	1	10.43	3.20	3.5	6.4	-9.4	0.0	-49.36	14.5	-4.6
90	2	10.43	3.50	5.7	6.7	-10.0	0.0	-46.41	16.2	-3.8
90	3	9.84	3.75	6.6	7.4	-11.2	0.0	-46.04	18.2	-4.2
90	4	9.84	3.43	4.1	7.0	-10.5	0.0	-48.93	16.2	-5.1
91	1	9.41	3.60	4.2	7.3	-10.7	0.0	-49.19	16.5	-5.1
91	2	9.41	3.93	6.8	7.7	-11.4	0.0	-46.17	18.6	-4.2
91	3	8.82	4.18	7.6	8.2	-12.6	0.0	-45.69	20.6	-4.7
91	4	8.82	3.83	4.7	7.7	-11.9	0.0	-48.63	18.2	-5.8
92	1	8.38	4.00	4.8	7.9	-12.1	0.0	-48.65	18.5	-5.8
92	2	8.38	4.37	7.8	8.4	-12.8	0.0	-45.73	20.9	-4.7
92	3	7.79	4.62	8.7	8.6	-14.1	0.0	-44.89	22.7	-5.5
92	4	7.79	4.23	5.4	8.1	-13.3	0.0	-47.87	20.0	-6.6
93	1	7.36	4.40	5.5	8.0	-13.3	0.0	-47.66	20.1	-6.6
93	2	7.36	4.81	8.9	8.4	-14.1	0.0	-44.49	22.7	-5.5
93	3	6.77	5.06	10.0	8.0	-15.4	0.0	-43.19	24.4	-6.4
93	4	6.77	4.63	6.3	7.6	-14.6	0.0	-46.32	21.6	-7.7
94	1	6.34	4.80	6.6	7.1	-14.9	0.0	-45.47	21.7	-8.0

		6.34	5.94	10.4	7.4	-15.5	0.0	-42.29	34.5	-6.7
		5.75	5.49	11.9	6.3	-16.8	0.0	-43.27	36.2	-7.9
		5.75	5.42	7.8	6.1	-16.3	0.0	-43.51	33.2	-6.4
		5.32	5.20	8.4	5.0	-16.6	0.0	-42.06	23.4	-10.0
		5.73	5.68	12.6	5.1	-16.9	0.0	-42.68	26.2	-8.5
		4.73	5.93	14.9	3.2	-18.3	0.0	-36.10	28.3	-10.2
		4.77	5.43	10.3	3.2	-18.4	0.0	-39.56	25.4	-11.9
		4.30	5.59	11.4	1.7	-18.8	0.0	-37.79	26.0	-12.9
		4.20	6.11	16.1	1.3	-18.4	0.0	-34.08	28.6	-11.1
		3.79	6.37	19.4	-1.2	-19.9	0.0	-21.38	31.5	-13.3
		3.71	5.93	14.1	-0.3	-20.8	0.0	-35.54	28.9	-15.1
		3.28	5.99	15.7	-2.1	-21.4	0.0	-33.74	29.9	-16.3
		3.21	6.05	21.1	-2.9	-20.2	0.0	-29.65	32.6	-14.4
		2.69	6.80	25.1	-4.1	-22.1	0.0	-28.25	37.0	-16.0
		3.01	6.22	19.3	-3.9	-23.4	0.0	-31.80	33.8	-18.4
		2.26	6.39	21.3	-4.1	-24.0	0.0	-31.08	35.8	-18.6
		2.21	6.39	27.3	-5.2	-22.1	0.0	-26.84	38.5	-16.4
		1.67	7.24	33.1	-5.1	-23.0	0.0	-25.12	43.9	-15.9
		1.67	6.42	24.9	-1.4	-26.3	0.0	-31.76	41.0	-17.7
		10.22	1.40	0.1	1.4	-1.0	0.0	-60.64	1.9	-0.4
		8.37	1.51	0.2	1.4	-1.1	0.0	-59.98	2.0	-0.4
		4.94	1.80	1.0	1.7	-2.6	0.0	-49.03	4.0	-1.8
		4.34	1.66	0.6	1.6	-2.6	0.0	-50.53	3.8	-1.5
		4.51	1.96	1.2	2.2	-3.0	0.0	-49.68	4.8	-1.2
		3.8	2.01	1.7	2.4	-3.1	0.0	-48.30	5.2	-1.1
		3.42	2.20	2.3	3.0	-4.5	0.0	-44.17	7.6	-1.3
		3.18	2.13	2.2	2.8	-4.5	0.0	-46.94	7.0	-2.0
		3.07	2.22	2.8	3.5	-5.2	0.0	-46.92	8.4	-2.9
		3.24	2.21	2.7	3.4	-5.5	0.0	-44.20	9.0	-1.9
		2.71	2.70	5.2	4.2	-6.8	0.0	-42.85	11.5	-2.1
		2.65	2.12	3.3	4.3	-6.6	0.0	-45.93	10.7	-2.5
		2.4	2.19	4.5	4.7	-6.9	0.0	-45.59	11.5	-2.3
		2.47	2.1	4.0	4.7	-7.2	0.0	-42.54	13.6	-1.9
		1.8	2.36	7.4	5.7	-8.6	0.0	-42.09	15.2	-2.1
		1.86	2.05	5.6	5.5	-8.3	0.0	-44.82	13.5	-2.9
		1.49	2.05	6.0	5.9	-8.8	0.0	-44.90	14.9	-2.0
		1.49	2.51	7.9	6.1	-9.2	0.0	-42.80	16.3	-2.2
		1.81	2.80	9.4	6.9	-10.6	0.0	-41.63	18.8	-2.5
		1.88	2.58	7.1	6.7	-10.1	0.0	-44.35	17.0	-2.3
		1.93	2.71	7.4	7.0	-10.4	0.0	-44.50	17.6	-2.1
		2.42	4.01	9.8	7.4	-10.8	0.0	-41.75	19.5	-2.3
		2.94	4.30	11.2	8.0	-12.2	0.0	-41.27	23.0	-2.7
		2.84	3.98	9.5	7.7	-11.6	0.0	-44.00	19.7	-3.5
109	1	9.41	4.18	8.7	8.1	-11.9	0.0	-44.20	20.3	-3.4
109	2	9.41	4.51	11.5	8.3	-12.5	0.0	-41.37	22.5	-2.7
109	3	9.82	4.80	12.9	9.0	-13.9	0.0	-40.98	25.0	-3.1
109	4	9.82	4.45	9.8	8.5	-13.2	0.0	-43.58	22.4	-4.1
96	1	8.38	4.64	10.0	8.7	-13.4	0.0	-43.64	22.8	-4.0
106	2	8.38	5.01	13.1	9.1	-14.1	0.0	-40.98	25.3	-3.1
106	3	7.79	5.30	14.6	9.4	-15.4	0.0	-40.22	27.6	-3.6
106	4	7.79	4.91	11.1	8.9	-14.7	0.0	-42.84	24.7	-4.7
107	1	7.36	5.10	11.4	8.7	-14.7	0.0	-42.40	24.8	-4.7
107	2	7.36	5.51	14.9	9.2	-15.3	0.0	-39.77	27.6	-3.6
107	3	6.77	5.80	16.5	8.9	-16.5	0.0	-38.57	29.6	-4.2
107	4	6.77	5.37	12.7	8.4	-15.9	0.0	-41.12	26.6	-5.5
108	1	6.34	5.57	13.1	7.7	-15.9	0.0	-40.15	26.5	-5.7
108	2	6.34	6.01	16.8	8.3	-16.3	0.0	-37.65	29.5	-4.3
108	3	5.75	6.30	18.8	7.1	-17.2	0.0	-35.62	31.1	-5.3

108	4	5.75	5.94	14.9	6.5	-17.0	0.0	-38.11	28.2	-6.8
109	1	5.32	6.03	15.6	5.2	-16.9	0.0	-36.46	28.1	-7.3
109	2	5.32	6.51	19.4	5.7	-16.9	0.0	-33.97	30.0	-5.7
109	3	4.73	6.80	21.9	3.5	-17.4	0.0	-31.15	32.4	-7.0
109	4	4.73	6.30	18.1	3.1	-18.0	0.0	-33.69	30.1	-8.9
110	1	4.30	6.50	19.3	1.2	-17.9	0.0	-31.60	30.3	-9.8
110	2	4.30	7.02	22.8	1.4	-16.9	0.0	-29.76	32.1	-7.9
110	3	3.71	7.30	26.2	-1.5	-17.2	0.0	-25.50	34.4	-9.7
110	4	3.71	6.76	22.7	-1.3	-19.0	0.0	-28.88	33.1	-11.7
111	1	3.38	6.96	24.5	-3.5	-18.9	0.0	-26.72	34.0	-13.0
111	2	3.38	7.52	27.6	-3.9	-16.6	0.0	-23.23	34.7	-11.0
111	3	2.69	7.21	31.6	-5.9	-17.0	0.0	-21.13	38.2	-12.5
111	4	2.69	7.33	29.2	-5.7	-19.9	0.0	-24.37	38.2	-14.8
112	1	2.36	7.42	31.3	-6.2	-20.3	0.0	-23.60	40.2	-15.0
112	2	2.26	8.02	34.2	-7.5	-16.3	0.0	-19.05	39.9	-13.1
112	3	1.67	8.31	40.9	-7.5	-15.8	0.0	-16.59	45.6	-12.2
112	4	1.67	7.69	35.7	-3.1	-22.4	0.0	-24.52	45.9	-13.4
113	1	15.53	1.59	0.3	1.2	-1.0	0.0	-57.52	1.9	-0.3
113	2	15.53	1.70	0.5	0.9	-0.8	0.0	-52.18	1.5	-0.1
113	3	14.74	2.03	1.7	1.6	-2.6	0.0	-44.62	4.2	-1.0
113	4	14.94	1.89	1.4	2.0	-2.4	0.0	-48.45	4.1	-0.7
114	1	14.51	2.12	2.2	2.4	-3.1	0.0	-46.26	5.4	-0.8
114	2	14.51	2.27	3.2	2.4	-2.7	0.0	-41.00	5.6	0.0
114	3	13.92	2.29	4.9	2.9	-4.7	0.0	-38.95	8.7	-0.9
114	4	13.92	2.42	3.9	2.8	-4.6	0.0	-41.69	8.0	-1.3
115	1	12.19	2.65	4.6	3.6	-5.5	0.0	-42.57	9.6	-1.4
115	2	13.48	2.93	5.8	3.7	-5.4	0.0	-39.57	10.3	-0.8
115	3	12.90	3.16	8.1	4.6	-7.0	0.0	-38.01	13.5	-0.9
115	4	12.97	2.95	6.4	4.4	-6.9	0.0	-40.86	12.3	-1.5
116	1	12.47	3.17	7.2	5.0	-7.4	0.0	-40.69	13.6	-1.4
116	2	12.47	3.40	8.9	4.9	-7.6	0.0	-37.76	14.8	-0.9
116	3	11.89	3.72	10.9	5.9	-9.2	0.0	-37.33	17.9	-1.1
116	4	11.89	3.49	8.9	5.8	-8.9	0.0	-40.16	16.4	-1.7
117	1	11.45	3.70	9.4	6.3	-9.4	0.0	-40.30	17.4	-1.7
117	2	11.45	3.96	11.5	6.4	-9.7	0.0	-37.64	19.0	-1.1
117	3	10.84	4.89	13.6	7.2	-11.3	0.0	-37.11	22.2	-1.4
117	4	10.84	4.61	11.2	7.0	-10.9	0.0	-39.60	20.8	-2.0
118	1	10.43	4.83	11.6	7.5	-11.2	0.0	-39.75	20.9	-1.9
118	2	10.43	4.53	14.1	7.6	-11.6	0.0	-37.18	23.0	-1.2
118	3	9.84	4.85	16.2	8.4	-12.2	0.0	-36.82	26.1	-1.4
118	4	9.84	4.53	13.3	8.2	-12.7	0.0	-39.32	23.7	-2.2
119	1	9.41	4.76	13.6	8.6	-12.9	0.0	-39.46	24.2	-2.0
119	2	9.41	5.09	16.6	8.8	-13.5	0.0	-36.97	26.2	-1.3
119	3	8.82	5.42	18.6	9.6	-15.1	0.0	-36.73	29.8	-1.6
119	4	8.82	5.06	15.3	9.2	-14.4	0.0	-39.09	27.0	-2.4
120	1	8.38	5.28	15.5	9.4	-14.6	0.0	-39.12	27.3	-2.4
120	2	8.38	5.66	18.9	9.9	-15.2	0.0	-36.77	30.3	-1.5
120	3	7.79	5.98	20.9	10.3	-16.6	0.0	-36.14	33.0	-1.8
120	4	7.79	5.59	17.2	9.8	-15.9	0.0	-38.41	29.8	-2.8
121	1	7.36	5.81	17.5	9.6	-15.8	0.0	-38.08	29.9	-2.8
121	2	7.36	6.22	21.1	10.2	-16.5	0.0	-35.88	33.0	-1.8
121	3	6.77	6.55	23.0	10.1	-17.6	0.0	-34.95	35.3	-2.1
121	4	6.77	6.12	19.2	9.4	-16.9	0.0	-36.87	31.9	-3.3
122	1	6.34	6.34	19.5	8.7	-16.7	0.0	-36.05	31.6	-3.5
122	2	6.34	6.79	23.1	9.6	-17.2	0.0	-34.29	34.8	-2.2
122	3	5.75	7.11	24.8	8.7	-17.6	0.0	-32.69	36.2	-2.6
122	4	5.75	6.65	21.4	7.6	-17.3	0.0	-34.13	33.2	-4.1
123	1	5.32	6.87	21.9	6.2	-16.8	0.0	-32.51	32.6	-4.5

123	2	5.38	7.35	24.8	7.4	-16.8	0.0	-31.27	35.0	-2.8
123	3	4.73	7.68	26.4	5.3	-16.4	0.0	-28.62	35.4	-3.6
123	4	4.73	7.17	24.2	4.0	-16.9	0.0	-29.58	33.8	-5.5
124	1	4.30	7.40	24.8	1.8	-16.0	0.0	-27.16	33.0	-6.4
124	2	4.30	7.92	26.4	3.2	-15.0	0.0	-26.14	33.7	-4.2
124	3	3.71	8.24	27.8	0.1	-13.6	0.0	-22.20	33.4	-5.4
124	4	3.71	7.70	27.6	-1.2	-15.7	0.0	-23.71	34.5	-8.1
125	1	3.28	7.92	28.7	-3.8	-14.5	0.0	-20.89	34.3	-9.3
125	2	3.28	8.48	27.4	-2.7	-11.6	0.0	-18.87	31.1	-6.7
125	3	2.69	8.81	28.5	-5.9	-9.6	0.0	-14.58	31.0	-8.4
125	4	2.69	8.23	32.6	-6.4	-13.6	0.0	-17.41	36.8	-10.7
126	1	2.26	8.45	33.4	-8.1	-12.3	0.0	-15.33	36.8	-11.5
126	2	2.26	9.05	28.4	-7.2	-7.3	0.0	-11.15	29.8	-8.6
126	3	1.67	9.37	28.0	-5.8	-3.1	0.0	-5.16	28.3	-6.1
126	4	1.67	8.76	37.2	-7.4	-11.3	0.0	-13.41	39.9	-10.1
127	1	15.53	1.78	0.3	0.7	-0.7	0.0	-52.49	1.2	-0.2
127	2	15.53	1.89	0.2	0.3	-0.3	0.0	-48.85	0.6	-0.1
127	3	14.94	2.26	3.2	1.6	-2.4	0.0	-36.06	5.0	-0.2
127	4	14.94	2.13	2.4	1.8	-2.4	0.0	-41.63	4.5	-0.3
128	1	14.51	2.38	3.6	2.2	-2.8	0.0	-37.77	5.8	0.1
128	2	14.51	2.52	4.5	2.1	-2.7	0.0	-32.92	6.2	0.3
128	3	13.92	2.89	6.8	3.0	-4.8	0.0	-34.12	10.0	-0.3
128	4	13.92	2.72	5.6	2.8	-4.8	0.0	-36.79	9.2	-0.7
129	1	13.49	2.97	6.7	3.7	-5.5	0.0	-37.34	10.9	-0.5
129	2	13.49	3.15	8.3	3.6	-5.5	0.0	-33.40	11.9	0.0
129	3	12.90	3.52	10.9	4.5	-7.2	0.0	-32.93	15.6	-0.2
129	4	12.90	3.31	9.2	4.4	-7.1	0.0	-35.67	14.3	-0.7
130	1	12.47	3.56	10.2	5.1	-7.7	0.0	-35.84	15.8	-0.5
130	2	12.47	3.78	12.0	5.0	-7.9	0.0	-33.07	17.2	-0.2
130	3	11.88	4.15	14.7	6.0	-9.6	0.0	-32.89	20.9	-0.2
130	4	11.88	3.90	12.5	6.0	-9.4	0.0	-35.51	19.2	-0.7
131	1	11.45	4.15	13.2	6.6	-9.9	0.0	-35.77	20.3	-0.6
131	2	11.45	4.41	15.4	6.6	-10.2	0.0	-33.28	22.2	-0.3
131	3	10.96	4.78	18.2	7.5	-12.0	0.0	-32.93	25.9	-0.3
131	4	10.96	4.49	15.5	7.4	-11.6	0.0	-35.36	23.7	-0.8
132	1	10.43	4.74	16.1	7.8	-11.9	0.0	-35.44	24.6	-0.7
132	2	10.43	5.04	18.8	7.9	-12.3	0.0	-33.04	26.9	-0.1
132	3	9.84	5.40	21.5	8.8	-14.1	0.0	-32.91	30.6	-0.3
132	4	9.84	5.09	18.4	8.6	-13.6	0.0	-35.10	27.9	-0.9
133	1	9.41	5.34	18.8	9.0	-13.9	0.0	-35.25	28.6	-0.8
133	2	9.41	5.67	22.0	9.3	-14.5	0.0	-33.10	31.4	-0.2
133	3	8.82	6.03	24.7	10.2	-16.2	0.0	-32.93	35.2	-0.3
133	4	8.82	5.68	21.1	9.9	-15.5	0.0	-35.07	32.0	-1.0
134	1	8.38	5.93	21.4	10.1	-15.7	0.0	-35.09	32.4	-0.9
134	2	8.38	6.30	25.1	10.5	-16.4	0.0	-32.96	35.8	-0.1
134	3	7.79	6.66	27.5	11.2	-17.9	0.0	-32.76	39.1	-0.3
134	4	7.79	6.27	23.6	10.7	-17.1	0.0	-34.62	35.1	-1.2
135	1	7.36	6.52	23.8	10.7	-17.1	0.0	-34.54	35.5	-1.0
135	2	7.36	6.93	27.6	11.3	-18.0	0.0	-32.82	39.2	-0.3
135	3	6.77	7.29	29.5	11.8	-19.1	0.0	-32.51	41.7	-0.4
135	4	6.77	6.86	25.7	10.8	-18.1	0.0	-33.79	37.8	-1.3
136	1	6.34	7.11	25.6	10.3	-17.7	0.0	-33.31	37.2	-1.3
136	2	6.34	7.56	29.1	11.6	-18.7	0.0	-32.47	41.0	-0.3
136	3	5.75	7.92	30.0	11.4	-18.9	0.0	-31.97	41.8	-0.4
136	4	5.75	7.45	27.1	9.7	-18.0	0.0	-32.07	38.4	-1.6
137	1	5.32	7.70	26.6	8.5	-17.0	0.0	-31.00	36.8	-1.7
137	2	5.32	8.19	28.6	10.7	-17.8	0.0	-31.69	39.6	-0.3
137	3	4.73	8.55	27.6	9.4	-16.8	0.0	-30.77	37.6	-0.5

137	4	4.73	8.05	27.5	6.7	-16.2	0.0	-28.66	36.3	-2.1
138	1	4.30	8.30	26.4	4.7	-14.4	0.0	-26.51	33.5	-2.4
138	2	4.30	8.82	24.7	7.9	-14.5	0.0	-29.97	33.1	-0.5
138	3	3.71	9.18	21.1	5.6	-11.5	0.0	-28.01	27.3	-0.6
139	4	3.71	8.64	26.2	1.6	-12.2	0.0	-23.48	31.2	-3.4
139	1	3.28	8.89	24.6	-1.1	-9.8	0.0	-18.60	27.9	-4.4
139	2	3.28	9.45	16.4	2.8	-8.0	0.0	-24.70	20.1	-0.9
139	3	2.69	9.91	9.8	-0.8	-3.2	0.0	-15.48	10.7	-1.6
139	4	2.69	9.23	23.2	-3.9	-6.4	0.0	-12.59	24.6	-5.3
140	1	2.26	9.48	20.1	-5.8	-3.4	0.0	-7.40	20.6	-6.3
140	2	2.26	10.08	3.7	-3.0	0.8	0.0	6.58	3.8	-3.0
140	3	1.67	10.44	-2.5	-1.2	3.3	0.0	50.39	1.5	-5.2
140	4	1.67	9.82	14.6	-4.7	-0.6	0.0	-1.90	14.6	-4.7
141	1	1.30	0.23	-37.0	-2.5	-1.4	0.0	-87.72	-2.5	-37.1
141	2	1.30	0.85	-43.8	-0.6	-4.8	0.0	-83.69	-0.1	-44.4
141	3	0.88	0.85	-50.2	-0.2	2.5	0.0	87.10	-0.1	-50.4
141	4	0.88	0.23	-37.4	3.3	-4.7	0.0	-83.51	3.9	-38.0
142	1	0.57	0.23	-30.6	19.9	7.5	0.0	81.79	21.0	-31.7
142	2	0.57	0.85	-76.4	3.1	-16.2	0.0	-78.91	6.3	-79.5
142	3	0.15	0.85	-82.7	-51.5	-63.8	0.0	-51.88	-1.5	-132.7
142	4	0.15	0.23	-45.2	-22.5	6.4	0.0	75.31	-20.9	-46.9
143	1	1.30	1.31	-45.6	-0.8	-11.7	0.0	-76.21	2.1	-48.5
143	2	1.30	1.93	-37.5	-3.5	-17.4	0.0	-67.17	3.9	-44.8
143	3	0.88	1.93	-38.7	-4.0	-14.5	0.0	-70.05	1.3	-43.9
143	4	0.88	1.31	-54.0	-10.5	-26.2	0.0	-64.85	1.9	-66.3
144	1	0.57	1.31	-45.0	-17.7	-27.7	0.0	-58.12	-0.4	-62.3
144	2	0.57	1.93	-45.0	-19.2	-22.1	0.0	-60.14	-6.5	-57.7
144	3	0.15	1.93	-47.9	-39.7	-45.4	0.0	-47.57	1.7	-89.3
144	4	0.15	1.31	-37.8	-15.0	13.7	0.0	64.93	-8.6	-44.2
145	1	1.30	2.39	-35.1	-6.2	-20.8	0.0	-62.36	4.7	-46.0
145	2	1.30	3.01	-23.8	-6.5	-22.4	0.0	-55.57	8.9	-39.1
145	3	0.88	3.01	-23.8	-6.7	-19.3	0.0	-57.01	5.9	-36.3
145	4	0.88	2.39	-36.6	-16.9	-27.6	0.0	-54.83	2.6	-56.1
146	1	0.57	2.39	-20.0	-16.4	-21.1	0.0	-53.99	-1.0	-45.4
146	2	0.57	3.01	-31.4	-14.2	-23.4	0.0	-55.09	2.1	-47.8
146	3	0.15	3.01	-34.5	-35.0	-37.4	0.0	-44.84	2.7	-72.2
146	4	0.15	2.39	-29.4	-11.7	-4.3	0.0	-77.13	-10.7	-30.3
147	1	1.30	3.47	-19.9	-6.8	-24.0	0.0	-58.65	11.5	-38.3
147	2	1.30	4.09	-8.9	-5.7	-24.8	0.0	-46.85	17.5	-32.1
147	3	0.88	4.09	-8.5	-3.4	-23.3	0.0	-48.10	17.5	-29.4
147	4	0.88	3.47	-21.8	-15.1	-27.0	0.0	-48.54	8.8	-45.6
148	1	0.57	3.47	-15.7	-14.0	-24.4	0.0	-46.02	9.5	-39.2
148	2	0.57	4.09	-15.1	-10.3	-24.4	0.0	-47.79	11.8	-37.2
148	3	0.15	4.09	-18.0	-27.2	-28.8	0.0	-40.48	6.5	-51.7
148	4	0.15	3.47	-12.6	-4.8	-11.2	0.0	-54.57	3.1	-20.6
149	1	1.30	4.55	-4.8	-5.1	-25.7	0.0	-44.83	20.7	-30.7
149	2	1.30	5.17	6.2	-3.6	-26.1	0.0	-39.68	27.9	-25.2
149	3	0.88	5.17	6.9	0.8	-26.5	0.0	-41.73	30.5	-22.8
149	4	0.88	4.55	-6.2	-11.6	-26.1	0.0	-42.05	17.3	-35.1
150	1	0.57	4.55	0.0	-8.4	-24.5	0.0	-40.10	20.7	-29.0
150	2	0.57	5.17	0.3	-3.9	-25.0	0.0	-42.56	23.3	-26.8
150	3	0.15	5.17	-2.6	-18.5	-20.5	0.0	-34.41	11.5	-32.5
150	4	0.15	4.55	2.5	3.1	-20.5	0.0	-45.46	23.3	-17.7
151	1	1.30	5.63	10.4	-2.7	-26.4	0.0	-38.02	31.0	-23.3
151	2	1.30	6.25	21.1	-1.6	-26.4	0.0	-33.37	38.5	-19.0
151	3	0.88	6.25	22.3	5.4	-29.1	0.0	-36.89	44.2	-16.4
151	4	0.88	5.63	9.3	-6.9	-24.5	0.0	-35.82	27.0	-24.6
152	1	0.57	5.63	15.4	-1.9	-25.3	0.0	-35.53	33.5	-20.0

[illegible]	2	[illegible]	6.57	6.25	16.0	2.9	-20.5	0.0	-37.79	25.6	-16.9
[illegible]	3	[illegible]	0.15	6.25	13.1	-8.5	-12.1	0.0	-24.16	18.5	-13.9
[illegible]	4	[illegible]	0.15	5.63	19.1	12.5	-29.0	0.0	-42.23	14.5	-13.9
[illegible]	[illegible]	[illegible]	1.30	6.71	25.3	-0.9	-25.7	0.0	-31.56	31.1	-16.6
[illegible]	[illegible]	[illegible]	1.30	7.33	35.2	-1.3	-24.9	0.0	-26.90	47.9	-12.9
[illegible]	[illegible]	[illegible]	0.98	7.33	36.6	8.8	-30.5	0.0	-39.72	58.2	-10.8
153	4	[illegible]	0.98	6.71	24.7	-2.5	-28.3	0.0	-29.28	37.2	-15.0
[illegible]	[illegible]	[illegible]	0.97	6.71	31.0	4.6	-25.6	0.0	-31.35	48.6	-11.0
[illegible]	[illegible]	[illegible]	0.97	7.33	31.5	9.0	-24.7	0.0	-32.75	47.3	-6.9
[illegible]	[illegible]	[illegible]	0.15	7.33	29.9	2.4	-4.2	0.0	-8.83	29.7	1.8
[illegible]	4	[illegible]	0.15	6.71	33.8	23.0	-37.7	0.0	-40.93	66.6	-9.7
[illegible]	[illegible]	[illegible]	1.30	7.79	38.8	-2.0	-21.9	0.0	-23.66	47.3	-11.6
[illegible]	[illegible]	[illegible]	1.30	8.41	41.8	-4.6	-17.6	0.0	-19.60	47.7	10.5
[illegible]	[illegible]	[illegible]	0.83	8.41	49.6	6.8	-27.2	0.0	-24.90	62.8	-6.5
[illegible]	[illegible]	[illegible]	0.83	7.79	39.5	-1.0	-18.5	0.0	-21.22	46.7	-8.2
[illegible]	1	[illegible]	0.57	7.79	45.2	10.5	-25.2	0.0	-21.71	58.5	-2.7
[illegible]	2	[illegible]	0.57	8.41	46.4	11.7	-23.3	0.0	-26.67	58.1	0.3
[illegible]	3	[illegible]	0.15	8.41	44.3	11.8	6.3	0.0	10.56	45.5	10.6
[illegible]	[illegible]	[illegible]	0.15	7.79	48.5	33.8	-45.9	0.0	-40.44	87.6	-5.3
[illegible]	[illegible]	[illegible]	1.30	8.87	42.1	-5.8	-9.6	0.0	-10.72	44.9	-7.6
[illegible]	[illegible]	[illegible]	1.30	9.49	27.3	-4.6	-1.4	0.0	-2.46	27.3	-4.7
[illegible]	[illegible]	[illegible]	0.83	9.49	31.2	-2.5	-3.3	0.0	-5.47	41.5	-2.8
[illegible]	[illegible]	[illegible]	0.83	8.87	49.7	-3.9	-7.0	0.0	-7.27	50.6	-4.8
[illegible]	[illegible]	[illegible]	0.57	8.87	58.9	3.9	-20.0	0.0	-18.03	65.3	-2.6
[illegible]	[illegible]	[illegible]	1.37	9.49	53.5	-2.9	3.6	0.0	3.64	53.9	-3.1
[illegible]	[illegible]	[illegible]	0.15	9.49	60.2	6.0	14.1	0.0	13.78	63.7	2.5
[illegible]	[illegible]	[illegible]	0.15	8.87	66.2	43.3	-53.8	0.0	-38.99	109.7	-9.2
[illegible]	[illegible]	[illegible]	[illegible]	9.85	12.2	-0.7	1.3	0.0	5.56	12.4	-0.3
[illegible]	[illegible]	[illegible]	1.30	1.37	-4.3	0.4	2.5	0.0	68.09	1.6	-5.9
[illegible]	[illegible]	[illegible]	1.83	1.37	-7.5	-2.2	-0.6	0.0	-92.70	-2.1	-7.2
[illegible]	[illegible]	[illegible]	1.91	1.85	14.6	5.1	5.4	0.0	24.30	17.1	3.7
[illegible]	[illegible]	[illegible]	1.87	1.85	-5.9	6.5	7.5	0.0	66.25	10.1	-9.1
[illegible]	[illegible]	[illegible]	1.87	10.37	-3.8	1.8	-5.7	0.0	-63.45	7.7	-6.7
[illegible]	[illegible]	[illegible]	1.15	1.37	-1.8	-4.6	-0.4	0.0	-7.53	-1.7	-4.
[illegible]	[illegible]	[illegible]	1.13	1.39	-3.5	-12.8	-11.9	0.0	-34.34	4.6	20.3

[illegible]	MUELLE	-[illegible].33
[illegible]	MUELLE	-[illegible].33
[illegible]	MUELLE	-47.33
[illegible]	MUELLE	-47.33
[illegible]	MUELLE	-47.334
[illegible]	MUELLE	-47.333
[illegible]	MUELLE	-47.334
[illegible]	MUELLE	-47.89
[illegible]	MUELLE	-47.843
[illegible]	MUELLE	-134.33
[illegible]	MUELLE	-101.174
175	MUELLE	-67.409
176	MUELLE	-33.690
174	MUELLE	0.004
175	MUELLE	33.688
176	MUELLE	67.379
177	MUELLE	101.106
178	MUELLE	134.915

RESULTANTES DE TENSIONES

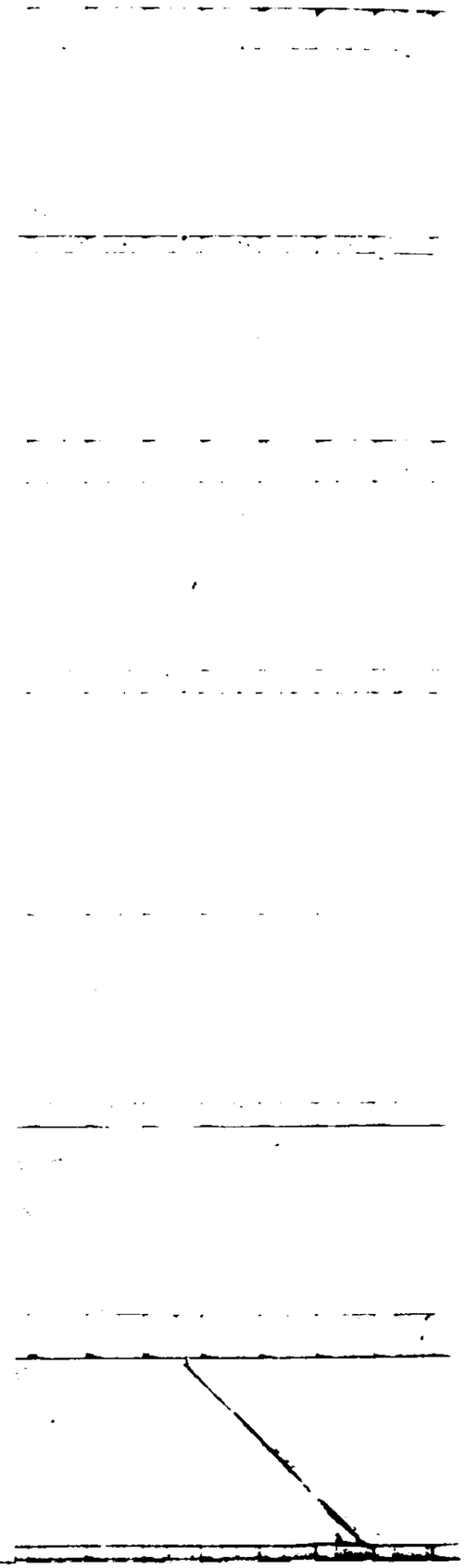
NUDO	FUER. X	FUER. Y

1	0.00	-2.60
2	0.00	1.31
3	-0.01	-2.62
4	0.00	1.30
5	0.00	0.65
6	0.00	-1.31
7	0.00	0.65
8	-0.01	-2.61
9	0.00	-2.62
10	-0.01	1.32
11	0.00	-2.63
12	0.00	0.66
13	0.00	-1.30
14	0.03	1.50
15	0.00	-3.06
16	0.00	1.49
17	0.00	-2.59
18	-0.01	-2.61
19	0.02	1.29
20	-0.03	-2.58
21	-0.01	-1.30
22	-0.02	0.64
23	0.02	-2.59
24	-0.01	-3.07
25	0.01	1.50
26	0.00	-2.60
27	-0.01	-3.08
28	0.01	1.52
29	0.00	-2.61
30	0.00	-3.06
31	0.00	1.53
32	0.02	-2.63
33	-0.01	1.31
34	0.00	-2.61
35	0.01	-2.60
36	0.00	0.65
37	0.00	-1.30
38	0.02	1.67
39	0.00	-3.30
40	-0.01	1.65
41	-0.01	-3.49
42	0.01	-3.08
43	-0.02	1.52
44	-0.03	-3.48
45	0.00	-3.29
46	0.00	1.66
47	0.00	-3.52
48	-0.01	-2.60
49	0.00	1.30
50	-0.05	-2.61
51	0.00	-3.30
52	0.00	1.65
53	-0.01	-3.48
54	-0.01	-1.30
55	0.00	0.66
56	0.01	-2.61
57	0.00	-3.29

58	0.00	1.66
59	0.00	-3.49
60	0.01	-3.30
61	0.00	1.66
62	-0.01	-3.48
63	-0.01	-3.31
64	-0.01	1.67
65	0.01	-3.50
66	0.00	1.48
67	0.00	-3.06
68	0.03	-2.61
69	0.00	1.30
70	0.00	-2.60
71	0.00	-2.61
72	-0.02	0.64
73	0.01	-1.30
74	-0.02	0.72
75	0.00	-2.96
76	0.01	1.50
77	-0.04	-3.15
78	-0.01	-3.32
79	0.02	0.84
80	-0.02	-1.58
81	0.01	-3.07
82	0.03	0.76
83	-0.03	-1.74
84	0.00	-2.94
85	-0.04	1.44
86	-0.01	-3.14
87	0.02	-2.93
88	-0.02	1.44
89	0.00	-3.13
90	-0.01	-2.61
91	0.01	0.64
92	-0.03	-1.31
93	0.00	-2.95
94	-0.02	1.48
95	0.01	-3.14
96	0.00	-1.29
97	0.01	0.32
98	-0.01	-1.29
99	0.01	-2.96
100	0.01	1.50
101	0.00	-3.14
102	-0.01	-3.01
103	0.02	1.52
104	-0.01	-3.14
105	-0.01	-2.98
106	-0.01	1.45
107	-0.01	-3.13
108	0.00	-2.93
109	0.00	1.45
110	-0.04	-3.16
111	0.03	1.69
112	-0.01	-3.28
113	-0.03	-3.49
114	-0.02	1.52
115	-0.03	-3.05

116	0.03	-2.59
117	-0.04	1.21
118	0.01	-2.59
119	0.04	-2.58
120	-0.01	0.67
121	0.06	-1.29
122	-0.01	0.65
123	0.03	-2.60
124	-0.04	1.26
125	0.02	-2.78
126	0.03	-1.39
127	0.02	-2.61
128	-0.04	1.24
129	0.01	-2.76
130	0.03	-2.57
131	-0.02	1.25
132	0.01	-2.79
133	0.00	-2.58
134	0.01	1.26
135	0.02	-2.78
136	0.01	-2.62
137	-0.01	1.34
138	-0.01	-2.81
139	0.00	-2.62
140	-0.01	1.32
141	0.02	-2.80
142	0.01	-2.62
143	0.00	1.30
144	0.01	-2.78
145	0.02	-2.62
146	-0.01	1.29
147	0.01	-2.79
148	0.01	-2.65
149	0.00	1.30
150	0.01	-2.76
151	0.00	1.49
152	0.04	-2.93
153	-0.02	-3.11
154	0.01	1.69
155	-0.02	-3.32
156	0.02	-3.50
157	0.03	1.52
158	0.00	-3.11
159	0.03	-2.60
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161	-0.01	-2.60
162	-0.02	-2.61
163	0.00	0.65
164	0.01	-1.30
165	-0.02	0.52
166	0.02	-2.24
167	0.00	1.14
168	-0.01	-2.48
169	0.01	-1.24
170	-0.02	-2.33
171	0.01	1.14
172	-0.01	-2.50
173	-0.02	-2.26

174	-0.02	1.10
175	0.02	-2.49
176	0.02	-2.27
177	0.00	1.18
178	0.01	-2.49
179	-0.01	-2.36
180	-0.01	1.17
181	-0.02	-2.50
182	0.01	-2.28
183	-0.02	1.13
184	0.01	-2.48
185	0.02	-2.25
186	0.00	1.18
187	0.01	-2.47
188	-0.03	-2.38
189	0.04	1.21
190	0.00	-2.44
191	-0.03	-2.41
192	0.02	1.17
193	0.02	-2.46
194	-0.03	-2.39
195	0.02	0.60
196	-0.02	-1.24
197	-0.02	0.62
198	0.04	-2.59
199	0.00	-1.38
200	-0.01	0.76
201	0.00	-2.99
202	0.01	-1.58
203	-0.01	0.81
204	-0.01	-3.29
205	0.01	-1.74
206	0.01	0.75
207	0.05	-3.07
208	0.02	-1.31
209	0.01	0.64
210	-0.01	-2.59
211	-0.02	-1.30
212	0.04	0.31
213	0.00	-1.30
214	0.00	0.48
215	-0.01	-2.01
216	-0.01	0.96
217	-0.03	-2.19
218	0.01	-1.06
219	0.02	-1.96
220	0.02	1.02
221	0.03	-2.15
222	-0.01	-2.10
223	0.00	1.06
224	-0.01	-2.15
225	-0.01	-2.01
226	0.00	1.01
227	0.01	-2.16
228	-0.01	-2.04
229	0.01	1.03
230	0.01	-2.14
231	-0.01	-2.02



232	-0.01	0.93
233	0.01	-2.18
234	0.02	-1.95
235	0.00	1.00
236	0.00	-2.17
237	-0.02	-2.08
238	0.02	1.09
239	0.01	-2.17
240	-0.04	-2.09
241	0.00	1.02
242	-0.02	-2.20
243	0.02	-2.08
244	-0.01	0.49
245	0.01	-1.05
246	0.02	0.44
247	0.01	-1.72
248	0.01	0.83
249	0.00	-1.89
250	-0.01	-0.94
251	0.01	-1.73
252	0.00	0.85
253	0.00	-1.88
254	-0.02	-1.79
255	-0.01	0.98
256	0.01	-1.88
257	-0.01	-1.85
258	-0.01	0.88
259	0.03	-1.92
260	0.00	-1.71
261	0.01	0.87
262	-0.01	-1.85
263	0.00	-1.74
264	-0.02	0.90
265	0.00	-1.91
266	0.00	-1.64
267	0.00	0.89
268	0.00	-1.87
269	0.01	-1.72
270	-0.01	0.85
271	0.01	-1.90
272	0.00	-1.74
273	0.00	0.84
274	0.01	-1.92
275	0.00	-1.74
276	-0.01	0.41
277	-0.02	-0.92
278	0.02	0.37
279	-0.03	-1.48
280	0.02	0.66
281	0.01	-1.60
282	-0.02	-0.82
283	-0.02	-1.42
284	-0.01	0.65
285	0.01	-1.64
286	-0.03	-1.53
287	-0.01	0.72
288	0.00	-1.67
289	-0.01	-1.50

290	0.01	0.77
291	0.01	-1.61
292	0.01	-1.58
293	0.00	0.74
294	0.00	-1.63
295	-0.02	-1.58
296	0.01	0.77
297	0.00	-1.60
298	-0.01	-1.57
299	0.02	0.79
300	0.01	-1.66
301	-0.02	-1.56
302	-0.01	0.79
303	0.01	-1.63
304	-0.02	-1.58
305	-0.03	0.78
306	-0.01	-1.62
307	0.01	-1.52
308	-0.01	0.46
309	0.01	-0.80
310	0.02	0.33
311	0.00	-1.24
312	0.03	0.57
313	-0.02	-1.39
314	0.00	-0.69
315	-0.01	-1.12
316	-0.02	0.59
317	0.01	-1.36
318	0.04	-1.30
319	-0.03	0.68
320	0.02	-1.44
321	-0.01	-1.35
322	0.00	0.68
323	0.00	-1.37
324	-0.02	-1.39
325	-0.01	0.68
326	-0.01	-1.42
327	0.01	-1.25
328	-0.02	0.63
329	0.01	-1.36
330	0.01	-1.23
331	-0.01	0.57
332	0.00	-1.39
333	-0.01	-1.23
334	-0.01	0.62
335	0.00	-1.42
336	0.01	-1.25
337	0.00	0.65
338	0.00	-1.41
339	0.05	-1.33
340	-0.02	0.32
341	0.00	-0.70
342	0.01	0.24
343	-0.01	-1.00
344	0.03	0.52
345	-0.01	-1.14
346	-0.01	-0.57
347	-0.03	-0.91

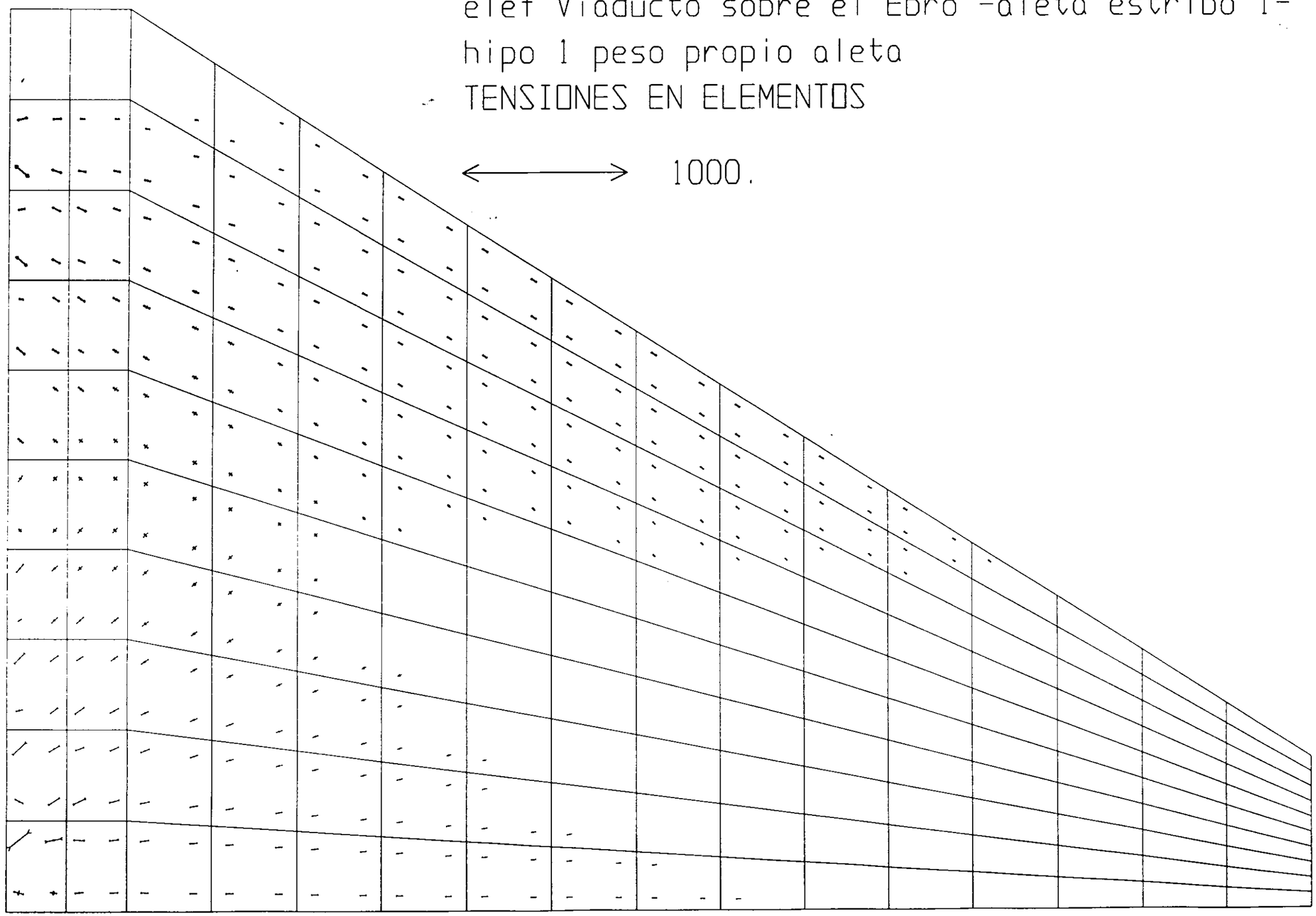
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349	0.00	-1.16
350	0.05	-1.02
351	-0.03	0.57
352	0.01	-1.19
353	-0.02	-1.14
354	0.03	0.69
355	0.03	-1.16
356	-0.02	-1.15
357	0.01	0.67
358	-0.02	-1.13
359	0.00	-1.05
360	-0.02	0.55
361	0.02	-1.07
362	0.03	-1.04
363	-0.01	0.49
364	-0.01	-1.17
365	-0.02	-1.04
366	0.02	0.57
367	0.01	-1.07
368	0.02	-1.01
369	-0.03	0.46
370	-0.01	-1.17
371	-0.01	-0.98
372	0.01	0.28
373	0.02	-0.58
374	0.02	0.28
375	-0.01	-0.84
376	0.02	0.31
377	0.01	-1.02
378	-0.02	-0.45
379	0.00	-0.84
380	-0.01	0.39
381	0.01	-0.90
382	0.02	-0.67
383	-0.01	0.34
384	0.00	-0.94
385	-0.02	-0.84
386	0.01	0.50
387	0.03	-0.94
388	0.01	-0.89
389	0.03	0.40
390	0.01	-0.95
391	-0.01	-0.93
392	-0.01	0.47
393	-0.01	-0.92
394	0.01	-0.92
395	-0.03	0.37
396	0.01	-1.00
397	0.00	-0.90
398	0.00	0.34
399	0.01	-0.93
400	-0.01	-0.81
401	-0.04	0.32
402	-0.02	-1.01
403	0.04	-0.73
404	-0.03	0.14
405	0.00	-0.44

406	0.00	0.08
407	-0.02	-0.54
408	0.00	0.19
409	-0.01	-0.84
410	0.00	-0.35
411	0.03	-0.49
412	-0.02	0.29
413	0.00	-0.75
414	0.01	-0.71
415	0.02	0.31
416	-0.01	-0.77
417	0.00	-0.65
418	0.04	0.41
419	-0.01	-0.66
420	0.02	-0.82
421	-0.02	0.51
422	0.01	-0.86
423	0.01	-0.87
424	0.03	0.55
425	0.00	-0.77
426	-0.02	-0.82
427	-0.06	0.37
428	-0.02	-0.80
429	0.12	-0.42
430	-0.05	0.19
431	-0.01	-0.76
432	0.00	-0.65
433	0.01	0.31
434	-0.01	-0.74
435	0.02	-0.61
436	0.02	0.10
437	0.00	-0.38
438	0.00	-0.02
439	0.00	-0.24
440	0.01	-0.08
441	0.00	-0.64
442	0.00	-0.31
443	-0.01	-0.37
444	0.03	0.29
445	0.00	-0.53
446	-0.01	-0.70
447	0.01	0.29
448	-0.01	-0.61
449	0.01	-0.51
450	-0.01	0.34
451	-0.01	-0.57
452	-0.03	-0.57
453	0.03	0.24
454	0.00	-0.60
455	-0.04	-0.63
456	0.04	0.39
457	0.00	-0.57
458	-0.01	-0.51
459	-0.03	0.20
460	-0.01	-0.61
461	0.06	-0.52
462	-0.01	0.26
463	0.00	-0.64

464	-0.09	-0.65
465	0.07	0.33
466	0.01	-0.56
467	-0.05	-0.59
468	-0.02	0.16
469	0.01	-0.30
470	-0.02	0.06
471	0.02	-0.18
472	0.00	0.18
473	0.00	-0.52
474	-0.01	-0.19
475	0.04	-0.35
476	0.01	0.36
477	0.01	-0.44
478	-0.05	-0.55
479	0.03	0.45
480	0.01	-0.42
481	0.03	-0.57
482	-0.01	0.40
483	-0.01	-0.47
484	0.02	-0.37
485	0.01	0.24
486	0.01	-0.40
487	-0.05	-0.35
488	0.01	0.21
489	0.01	-0.49
490	0.04	-0.28
491	0.00	0.25
492	-0.01	-0.50
493	0.04	-0.43
494	-0.03	0.10
495	0.02	-0.07
496	-0.02	-0.20
497	-0.02	0.18
498	0.04	-0.40
499	0.04	-0.22
500	0.02	0.22
501	0.01	-0.21
502	-0.01	0.01
503	0.02	-0.14
504	-0.01	-0.04
505	0.03	-0.27
506	0.00	-0.16
507	0.01	-0.11
508	0.01	0.11
509	-0.02	-0.33
510	-0.02	-0.38
511	0.01	0.08
512	-0.01	-0.31
513	0.02	-0.27
514	-0.02	0.14
515	0.00	-0.30
516	-0.03	-0.14
517	0.02	0.09
518	0.00	-0.30
519	0.01	-0.18
520	0.01	0.15
521	-0.01	-0.24

522	0.03	-0.26
523	-0.02	0.09
524	0.03	-0.38
525	0.04	-0.21
526	-0.01	0.05
527	-0.02	-0.28
528	-0.01	-0.05
529	0.01	0.04
530	0.03	-0.26
531	0.04	-0.07
532	-0.05	0.04
533	0.01	-0.10

elef Viaducto sobre el Ebro -aleta estribo 1-
hipo 1 peso propio aleta
TENSIONES EN ELEMENTOS



clef Viaducto sobre el Ebro -aleta estribo 1-

NUMERO DE PUNTOS NODALES = 533

NUMERO DE ELEMENTOS = 169

NUMERO DE TIPOS DE MATERIALES= 16

DIMENSION DEL ESPACIO = 2

GRADOS DE LIBERTAD POR NODO = 3

MAXIMO NUMERO NODOS/ELEMENTO = 8

NUMERO DE HIPOTESIS DE CARGA = 1

COORDENADAS NODALES

NOD	X	Y
1	0.363	4.320
2	0.725	3.240
3	0.725	3.780
4	0.725	4.320
5	0.000	4.320
6	0.000	3.780
7	0.000	3.240
8	0.363	3.240
9	0.725	4.860
10	0.725	5.400
11	0.363	5.400
12	0.000	5.400
13	0.000	4.860
14	1.450	2.160
15	1.450	2.700
16	1.450	3.240
17	1.087	3.240
18	0.725	2.700
19	0.725	2.160
20	1.087	2.160
21	0.000	2.700
22	0.000	2.160
23	0.363	2.160
24	1.450	3.780
25	1.450	4.320
26	1.087	4.320
27	1.450	4.860
28	1.450	5.400
29	1.087	5.400
30	1.450	5.940
31	1.450	6.480
32	1.087	6.480

33	0.725	6.480
34	0.725	5.940
35	0.362	6.480
36	0.000	6.480
37	0.000	5.340
38	2.471	1.016
39	2.471	1.524
40	2.471	2.031
41	1.961	2.096
42	1.450	1.620
43	1.450	1.080
44	1.961	1.048
45	2.471	2.539
46	2.471	3.047
47	1.961	3.144
48	0.725	1.620
49	0.725	1.080
50	1.087	1.080
51	2.471	3.555
52	2.471	4.063
53	1.961	4.191
54	0.000	1.620
55	0.000	1.080
56	0.362	1.080
57	2.471	4.571
58	2.471	5.079
59	1.961	5.239
60	2.471	5.586
61	2.471	6.094
62	1.961	6.287
63	2.471	6.602
64	2.471	7.110
65	1.181	7.335
66	1.450	7.560
67	1.450	7.020
68	1.087	7.560
69	0.725	7.560
70	0.725	7.020
71	0.362	7.560
72	0.000	7.560
73	0.000	7.020
74	3.497	0.000
75	3.493	0.476
76	3.497	0.951
77	3.993	0.984
78	2.471	0.508
79	2.471	0.000
80	2.982	0.000
81	1.450	0.540
82	1.450	0.000
83	1.961	0.000
84	3.493	1.427
85	3.493	1.903
86	2.982	1.967
87	3.493	2.379
88	3.493	2.854
89	2.982	2.951
90	0.725	0.540

91	0.725	0.000
92	1.087	0.000
93	3.493	3.330
94	3.493	3.806
95	2.982	3.934
96	0.000	0.540
97	0.000	0.000
98	0.362	0.000
99	3.493	4.281
100	3.493	4.757
101	2.982	4.918
102	3.493	5.233
103	3.493	5.709
104	2.982	5.901
105	3.493	6.184
106	3.493	6.660
107	2.982	6.885
108	3.493	7.136
109	3.493	7.611
110	2.982	7.869
111	2.471	8.126
112	2.471	7.618
113	1.961	8.383
114	1.450	8.640
115	1.450	8.100
116	1.087	8.640
117	0.725	8.640
118	0.725	8.100
119	0.362	8.640
120	0.000	8.640
121	0.000	8.100
122	4.514	0.000
123	4.514	0.444
124	4.514	0.887
125	4.004	0.919
126	4.004	0.000
127	4.514	1.331
128	4.514	1.774
129	4.004	1.839
130	4.514	2.218
131	4.514	2.661
132	4.004	2.758
133	4.514	3.105
134	4.514	3.549
135	4.004	3.677
136	4.514	3.992
137	4.514	4.436
138	4.004	4.596
139	4.514	4.879
140	4.514	5.323
141	4.004	5.516
142	4.514	5.766
143	4.514	6.210
144	4.004	6.435
145	4.514	6.654
146	4.514	7.097
147	4.004	7.354
148	4.514	7.541

149	4.514	7.984
150	4.004	8.274
151	3.497	8.563
152	3.497	8.067
153	2.982	8.952
154	2.477	9.141
155	2.471	9.634
156	1.961	9.431
157	1.450	9.720
158	1.450	9.190
159	1.09	9.720
160	0.725	9.720
161	0.725	9.190
162	0.362	9.720
163	0.000	9.720
164	0.000	9.190
165	0.522	0.000
166	0.522	0.411
167	0.522	0.823
168	1.044	0.855
169	1.133	1.000
170	1.233	1.234
171	1.533	1.646
172	1.955	1.970
173	2.333	2.057
174	2.833	2.469
175	3.133	2.305
176	3.533	2.880
177	3.933	3.291
178	4.033	3.496
179	3.833	3.707
180	4.133	4.275
181	4.533	4.520
182	4.933	4.927
183	5.133	5.130
184	5.533	5.349
185	5.933	5.760
186	6.133	5.965
187	6.533	6.171
188	6.933	6.582
189	7.133	6.840
190	6.936	6.994
191	6.936	7.406
192	6.625	7.695
193	6.836	7.817
194	6.536	8.229
195	6.025	8.550
196	4.514	8.871
197	4.514	8.428
198	4.004	9.193
199	3.493	9.514
200	3.493	9.039
201	2.982	9.836
202	2.471	10.157
203	2.471	9.649
204	1.961	10.479
205	1.450	10.800
206		

207	1.450	10.260
208	1.087	10.800
209	0.725	10.800
210	0.725	10.260
211	0.362	10.800
212	0.000	10.800
213	0.000	10.260
214	6.557	0.000
215	6.557	0.379
216	6.557	0.759
217	6.046	0.791
218	6.046	0.000
219	6.557	1.138
220	6.557	1.517
221	6.046	1.581
222	6.557	1.896
223	6.557	2.276
224	6.046	2.372
225	6.557	2.655
226	6.557	3.034
227	6.046	3.163
228	6.557	3.414
229	6.557	3.793
230	6.046	3.954
231	6.557	4.172
232	6.557	4.551
233	6.046	4.744
234	6.557	4.931
235	6.557	5.310
236	6.046	5.535
237	6.557	5.689
238	6.557	6.069
239	6.046	6.326
240	6.557	6.448
241	6.557	6.827
242	6.046	7.116
243	6.557	7.206
244	6.557	7.586
245	6.046	7.907
246	7.579	0.000
247	7.579	0.347
248	7.579	0.694
249	7.068	0.726
250	7.068	0.000
251	7.579	1.041
252	7.579	1.389
253	7.068	1.453
254	7.579	1.736
255	7.579	2.083
256	7.068	2.179
257	7.579	2.430
258	7.579	2.777
259	7.068	2.906
260	7.579	3.124
261	7.579	3.471
262	7.068	3.632
263	7.579	3.819
264	7.579	4.166

265	7.068	4.359
266	7.579	4.513
267	7.579	4.860
268	7.068	5.085
269	7.579	5.207
270	7.579	5.554
271	7.068	5.811
272	7.579	5.901
273	7.579	6.249
274	7.068	6.538
275	7.579	6.596
276	7.579	6.943
277	7.068	7.264
278	8.600	0.000
279	8.600	0.315
280	8.600	0.630
281	8.089	0.662
282	8.089	0.000
283	8.600	0.945
284	8.600	1.260
285	8.089	1.324
286	8.600	1.575
287	8.600	1.890
288	8.089	1.986
289	8.600	2.205
290	8.600	2.520
291	8.089	2.649
292	8.600	2.835
293	8.600	3.150
294	8.089	3.311
295	8.600	3.465
296	8.601	3.780
297	8.089	3.973
298	8.600	4.095
299	8.600	4.410
300	8.089	4.635
301	8.600	4.725
302	8.600	5.040
303	8.089	5.297
304	8.600	5.355
305	8.600	5.670
306	8.089	5.959
307	8.600	5.985
308	8.600	6.300
309	8.089	6.621
310	9.621	0.000
311	9.621	0.283
312	9.621	0.566
313	9.111	0.598
314	9.111	0.000
315	9.621	0.849
316	9.621	1.131
317	9.111	1.196
318	9.621	1.414
319	9.621	1.697
320	9.111	1.794
321	9.621	1.980
322	9.621	2.263

383	9.[illegible]	2.311
384	9.121	2.846
385	9.621	3.329
386	9.[illegible]	3.[illegible]
[illegible]	9.[illegible]	3.[illegible]
388	9.621	3.304
389	9.[illegible]	3.307
[illegible]	9.621	3.[illegible]
[illegible]	9.621	3.[illegible]
[illegible]	9.[illegible]	4.[illegible]
[illegible]	9.621	4.343
[illegible]	9.121	4.826
[illegible]	9.[illegible]	4.787
[illegible]	9.621	4.809
[illegible]	9.621	5.[illegible]
[illegible]	9.[illegible]	5.[illegible]
[illegible]	9.621	5.314
[illegible]	9.621	5.[illegible]
[illegible]	9.[illegible]	5.[illegible]
[illegible]	10.643	1.[illegible]
[illegible]	10.[illegible]	1.851
[illegible]	10.[illegible]	1.[illegible]
[illegible]	10.[illegible]	1.[illegible]
[illegible]	10.[illegible]	1.[illegible]

381	11.154	0.939
382	11.664	1.093
383	11.664	1.311
384	11.154	1.468
385	11.664	1.530
386	11.664	1.749
387	11.154	1.877
388	11.664	1.967
389	11.664	2.186
390	11.154	2.346
391	11.664	2.404
392	11.664	2.623
393	11.154	2.816
394	11.664	2.841
395	11.664	3.060
396	11.154	3.285
397	11.664	3.279
398	11.664	3.497
399	11.154	3.754
400	11.664	3.716
401	11.664	3.934
402	11.154	4.224
403	11.664	4.153
404	11.664	4.371
405	11.154	4.693
406	12.686	0.000
407	12.686	0.196
408	12.686	0.273
409	12.175	0.405
410	12.175	0.000
411	12.686	0.559
412	12.686	0.746
413	12.175	0.810
414	12.686	0.932
415	12.686	1.119
416	12.175	1.215
417	12.686	1.305
418	12.686	1.491
419	12.175	1.620
420	12.686	1.678
421	12.686	1.864
422	12.175	2.025
423	12.686	2.051
424	12.686	2.237
425	12.175	2.430
426	12.686	2.424
427	12.686	2.610
428	12.175	2.835
429	12.686	2.796
430	12.686	2.983
431	12.175	3.240
432	12.686	3.169
433	12.686	3.356
434	12.175	3.645
435	12.686	3.542
436	12.686	3.729
437	12.175	4.050
438	13.707	0.000

439	13.707	0.154
440	13.707	0.309
441	13.196	0.341
442	13.196	0.000
443	13.707	0.463
444	13.707	0.617
445	13.196	0.681
446	13.707	0.771
447	13.707	0.926
448	13.196	1.022
449	13.707	1.080
450	13.707	1.234
451	13.196	1.363
452	13.707	1.389
453	13.707	1.543
454	13.196	1.704
455	13.707	1.697
456	13.707	1.851
457	13.196	2.044
458	13.707	2.006
459	13.707	2.160
460	13.196	2.385
461	13.707	2.314
462	13.707	2.469
463	13.196	2.726
464	13.707	2.623
465	13.707	2.777
466	13.196	3.066
467	13.707	2.931
468	13.707	3.086
469	13.196	3.407
470	14.729	0.000
471	14.729	0.122
472	14.729	0.244
473	14.218	0.276
474	14.218	0.000
475	14.729	0.366
476	14.729	0.489
477	14.218	0.553
478	14.729	0.611
479	14.729	0.733
480	14.218	0.829
481	14.729	0.855
482	14.729	0.977
483	14.218	1.106
484	14.729	1.099
485	14.729	1.221
486	14.218	1.382
487	14.729	1.344
488	14.729	1.466
489	14.218	1.659
490	14.729	1.588
491	14.729	1.710
492	14.218	1.935
493	14.729	1.832
494	14.729	1.954
495	14.218	2.211
496	14.729	2.076

497	14.729	2.199
498	14.219	2.488
499	14.729	2.321
500	14.729	2.443
501	14.219	2.764
502	15.750	0.000
503	15.750	0.090
504	15.750	0.180
505	15.239	0.212
506	15.239	0.000
507	15.750	0.270
508	15.750	0.360
509	15.239	0.424
510	15.750	0.450
511	15.750	0.540
512	15.239	0.636
513	15.750	0.630
514	15.750	0.720
515	15.239	0.849
516	15.750	0.810
517	15.750	0.900
518	15.239	1.061
519	15.739	0.990
520	15.739	1.080
521	15.239	1.273
522	15.750	1.170
523	15.750	1.260
524	15.239	1.485
525	15.750	1.350
526	15.739	1.440
527	15.239	1.697
528	15.750	1.530
529	15.739	1.620
530	15.239	1.909
531	15.750	1.710
532	15.750	1.800
533	15.239	2.121

ELEMENTOS

ELEMENTO	MATERIAL	NODO 1	NODO 2	NODO 3	NODO 4	NODO 5	NODO 6	NODO 7	NODO 8
1	1	502	503	504	505	472	471	470	506
2	2	470	471	472	473	440	439	438	474
3	3	438	439	440	441	408	407	406	442
4	4	406	407	408	409	376	375	374	410
5	5	374	375	376	377	344	343	342	378
6	6	342	343	344	345	312	311	310	346
7	7	310	311	312	313	280	279	278	314
8	8	278	279	280	281	248	247	246	282
9	9	246	247	248	249	216	215	214	250
10	10	214	215	216	217	167	166	165	218
11	11	165	166	167	168	124	123	122	169
12	12	122	123	124	125	76	75	74	126
13	13	74	75	76	77	38	78	79	80
14	14	79	78	38	44	43	81	82	83

15	1	504	507	508	509	476	475	473	505
16	2	473	475	476	477	444	443	440	473
17	3	440	442	444	445	412	411	409	441
18	4	408	41	412	413	380	379	376	409
19	5	376	37	380	381	348	347	344	377
20	6	344	347	348	349	316	315	312	345
21	7	316	315	316	317	284	283	280	313
22	8	280	283	284	285	252	251	248	281
23	9	248	25.	252	253	220	219	216	249
24	10	216	219	220	221	171	170	167	217
25	11	167	170	171	173	128	127	124	168
26	12	124	127	129	129	85	84	76	125
27	13	76	84	85	86	40	39	38	77
28	14	38	39	40	41	14	42	43	44
29	1	509	510	511	512	479	478	476	509
30	2	476	478	479	480	447	446	444	477
31	3	444	446	447	448	415	414	412	445
32	4	412	414	415	416	383	382	380	413
33	5	380	383	383	384	351	350	348	381
34	6	348	350	351	352	319	318	316	349
35	7	316	318	319	320	287	286	284	317
36	8	284	287	287	288	255	254	252	285
37	9	252	25.	255	256	223	222	220	253
38	10	220	222	223	224	174	173	171	221
39	11	171	173	174	175	131	130	128	172
40	12	128	130	131	132	88	87	85	129
41	13	85	87	88	89	46	45	40	86
42	14	42	43	46	47	16	15	14	41
43	1	513	513	514	515	482	481	479	512
44	2	482	482	492	493	450	449	447	490
45	3	449	451	450	451	418	417	415	448
46	4	416	417	416	419	386	385	383	416
47	5	383	385	386	387	354	353	351	384
48	6	351	353	354	355	322	321	319	352
49	7	319	32.	322	323	290	289	287	320
50	8	287	289	290	291	258	257	255	288
51	9	255	257	258	259	226	225	223	256
52	10	223	225	226	227	177	176	174	224
53	11	174	176	177	178	134	133	131	175
54	12	131	133	134	135	94	93	88	132
55	13	88	93	94	95	52	51	46	89
56	14	46	51	52	53	25	24	16	47
57	1	514	516	517	518	485	484	482	515
58	2	482	484	485	486	453	452	450	483
59	3	450	452	453	454	421	420	418	451
60	4	418	420	421	422	389	388	386	419
61	5	386	388	389	390	357	356	354	387
62	6	354	356	357	358	325	324	322	355
63	7	322	324	325	326	293	292	290	323
64	8	290	292	293	294	261	260	258	291
65	9	258	260	261	262	229	228	226	259
66	10	226	228	229	230	180	179	177	227
67	11	177	179	180	181	137	136	134	178
68	12	134	136	137	138	100	99	94	135
69	13	94	99	100	101	58	57	52	95
70	14	52	57	58	59	28	27	25	53
71	1	517	519	520	521	488	487	485	518
72	2	485	487	488	489	456	455	453	486

73	3	453	455	456	457	424	423	421	454
74	4	421	423	424	425	392	391	389	422
75	5	389	391	392	393	360	359	357	390
76	6	357	359	360	361	328	327	325	358
77	7	325	327	328	329	296	295	293	326
78	8	293	295	296	297	264	263	261	294
79	9	261	263	264	265	232	231	229	262
80	10	229	231	232	233	183	182	180	230
81	11	180	182	183	184	140	139	137	181
82	12	137	139	140	141	103	102	100	138
83	13	100	102	103	104	61	60	58	101
84	14	58	60	61	62	31	30	28	59
85	1	520	522	523	524	491	490	488	521
86	2	488	490	491	492	459	458	456	489
87	3	456	458	459	460	427	426	424	457
88	4	424	426	427	428	395	394	392	425
89	5	392	394	395	396	363	362	360	393
90	6	360	362	363	364	331	330	328	361
91	7	328	330	331	332	299	298	296	329
92	8	296	298	299	300	267	266	264	297
93	9	264	266	267	268	235	234	232	265
94	10	232	234	235	236	186	185	183	233
95	11	183	185	186	187	143	142	140	184
96	12	140	142	143	144	106	105	103	141
97	13	103	105	106	107	64	63	61	104
98	14	61	63	64	65	66	67	31	62
99	1	523	525	526	527	494	493	491	524
100	2	491	493	494	495	462	461	459	492
101	3	459	461	462	463	430	429	427	460
102	4	427	429	430	431	398	397	395	428
103	5	395	397	398	399	366	365	363	396
104	6	362	365	366	367	334	333	331	364
105	7	331	333	334	335	302	301	299	332
106	8	299	301	302	303	270	269	267	300
107	9	267	269	270	271	238	237	235	268
109	10	235	237	238	239	189	188	186	236
109	11	186	188	189	190	146	145	143	187
110	12	143	145	146	147	109	108	106	144
111	13	106	108	109	110	111	112	64	107
112	14	64	112	111	113	114	115	66	65
113	1	526	528	529	530	497	496	494	527
114	2	494	496	497	498	465	464	462	495
115	3	462	464	465	466	433	432	430	463
116	4	430	432	433	434	401	400	398	431
117	5	398	400	401	402	369	368	366	399
118	6	366	368	369	370	337	336	334	367
119	7	334	336	337	338	305	304	302	335
120	8	302	304	305	306	273	272	270	303
121	9	270	272	273	274	241	240	238	271
122	10	238	240	241	242	192	191	189	239
123	11	189	191	192	193	149	148	146	190
124	12	146	148	149	150	151	152	109	147
125	13	109	152	151	153	154	155	111	110
126	14	111	155	154	156	157	158	114	113
127	1	529	531	532	533	500	499	497	530
128	2	497	499	500	501	468	467	465	498
129	3	465	467	468	469	436	435	433	466
130	4	433	435	436	437	404	403	401	434

131	5	401	403	404	405	372	371	369	402
132	6	369	371	372	373	340	339	337	370
133	7	337	339	340	341	308	307	305	338
134	8	305	307	308	309	276	275	273	306
135	9	273	275	276	277	244	243	241	274
136	10	241	243	244	245	195	194	192	242
137	11	192	194	195	196	197	198	149	193
138	12	149	198	197	199	200	201	151	150
139	13	151	201	200	202	203	204	154	153
140	14	154	204	203	205	206	207	157	156
141	15	82	81	43	50	49	90	91	92
142	15	91	90	49	56	55	96	97	98
143	15	43	42	14	20	19	48	49	50
144	15	49	48	19	23	22	54	55	56
145	15	14	15	16	17	2	18	19	20
146	15	19	18	2	8	7	21	22	23
147	15	16	24	25	26	4	3	2	17
148	15	2	3	4	1	5	6	7	8
149	15	25	27	28	29	10	9	4	26
150	15	4	9	10	11	12	13	5	1
151	15	28	30	31	32	33	34	10	29
152	15	10	34	33	35	36	37	12	11
153	15	31	67	66	68	69	70	33	32
154	15	33	70	69	71	72	73	36	35
155	15	66	115	114	116	117	118	69	68
156	15	69	118	117	119	120	121	72	71
157	15	114	158	157	159	160	161	117	116
158	15	117	161	160	162	163	164	120	119
159	15	157	207	206	208	209	210	160	159
160	15	160	210	209	211	212	213	163	162
161	16	99	0	0	0	0	0	0	0
162	16	54	0	0	0	0	0	0	0
163	16	21	0	0	0	0	0	0	0
164	16	0	0	0	0	0	0	0	0
165	16	13	0	0	0	0	0	0	0
166	16	37	0	0	0	0	0	0	0
167	16	73	0	0	0	0	0	0	0
168	16	121	0	0	0	0	0	0	0
169	16	164	0	0	0	0	0	0	0

PROPIEDADES DE LOS MATERIALES

MATERIAL 1 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.84290E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 2 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.92860E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 3 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.10143E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 4 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.11000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 5 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.11857E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 6 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.12714E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 7 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.13571E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 8 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.14429E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 9 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.15286E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 10 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.16143E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 11 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.17000E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 12 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.17857E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 13 TIPO ELEMENTO 5

MODUL.E	0.30000E+07
COEF.POISSON	0.20000
ESPESOR	0.18714E+01
PUNTOS GAUSS	4
COEF.DILAT.TERM.	0.000000

MATERIAL 14 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.19571E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 15 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.20000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 16 TIPO ELEMENTO 9
MUELLE A TRASLACION

RIGIDEZ 5000.00
DIRECCION 0.0000 0.0000 0.0000

CONDICIONES BORDE

N.SEC	NODO 1	NODO 2	NODO 3
8	0	0	1
15	0	0	1
21	0	0	1
37	0	0	1
54	0	0	1
73	0	0	1
90	0	0	1
121	0	0	1
164	0	0	1

HIPOTESIS DE CARGA N. 1

Hipo 1 empuje de tierras

C.U.ELEM.	127	CARGAS	0.060	0.000	0.000
C.U.ELEM.	113	CARGAS	0.170	0.000	0.000
C.U.ELEM.	99	CARGAS	0.280	0.000	0.000
C.U.ELEM.	85	CARGAS	0.390	0.000	0.000
C.U.ELEM.	71	CARGAS	0.500	0.000	0.000
C.U.ELEM.	57	CARGAS	0.610	0.000	0.000
C.U.ELEM.	43	CARGAS	0.720	0.000	0.000
C.U.ELEM.	29	CARGAS	0.830	0.000	0.000
C.U.ELEM.	15	CARGAS	0.940	0.000	0.000

..ELEM.	1	CARGAS	1.060	0.000	0.000
...ELEM.	125	CARGAS	0.070	0.000	0.000
...ELEM.	114	CARGAS	1.220	0.000	0.000
...ELEM.	100	CARGAS	0.300	0.000	0.000
...ELEM.	86	CARGAS	0.511	0.000	0.000
...ELEM.	72	CARGAS	0.850	0.000	0.000
...ELEM.	58	CARGAS	0.800	0.000	0.000
...ELEM.	44	CARGAS	0.940	0.000	0.000
...ELEM.	30	CARGAS	1.090	0.000	0.000
...ELEM.	16	CARGAS	1.230	0.000	0.000
...ELEM.	2	CARGAS	1.390	0.000	0.000
...ELEM.	129	CARGAS	2.790	0.000	0.000
...ELEM.	115	CARGAS	0.370	0.000	0.000
...ELEM.	101	CARGAS	0.450	0.000	0.000
...ELEM.	9	CARGAS	0.820	0.000	0.000
...ELEM.	73	CARGAS	0.810	0.000	0.000
...ELEM.	59	CARGAS	0.950	0.000	0.000
...ELEM.	45	CARGAS	1.160	0.000	0.000
...ELEM.	31	CARGAS	1.340	0.000	0.000
...ELEM.	17	CARGAS	1.530	0.000	0.000
...ELEM.	3	CARGAS	1.690	0.000	0.000
...ELEM.	131	CARGAS	0.110	0.000	0.000
...ELEM.	117	CARGAS	0.383	0.000	0.000
...ELEM.	103	CARGAS	0.630	0.000	0.000
...ELEM.	88	CARGAS	0.740	0.000	0.000
...ELEM.	74	CARGAS	0.950	0.000	0.000
...ELEM.	60	CARGAS	1.170	0.000	0.000
...ELEM.	46	CARGAS	1.380	0.000	0.000
...ELEM.	32	CARGAS	1.610	0.000	0.000
...ELEM.	18	CARGAS	1.800	0.000	0.000
...ELEM.	4	CARGAS	2.010	0.000	0.000
...ELEM.	127	CARGAS	1.130	0.000	0.000
...ELEM.	113	CARGAS	1.270	0.000	0.000
...ELEM.	99	CARGAS	1.510	0.000	0.000
...ELEM.	85	CARGAS	1.710	0.000	0.000
...ELEM.	71	CARGAS	1.950	0.000	0.000
...ELEM.	57	CARGAS	2.170	0.000	0.000
...ELEM.	43	CARGAS	1.040	0.000	0.000
...ELEM.	15	CARGAS	2.090	0.000	0.000
...ELEM.	5	CARGAS	2.330	0.000	0.000
...ELEM.	121	CARGAS	0.140	0.000	0.000
...ELEM.	119	CARGAS	0.420	0.000	0.000
...ELEM.	104	CARGAS	0.700	0.000	0.000
...ELEM.	90	CARGAS	0.950	0.000	0.000
...ELEM.	76	CARGAS	1.260	0.000	0.000
...ELEM.	62	CARGAS	1.540	0.000	0.000
...ELEM.	48	CARGAS	1.220	0.000	0.000
...ELEM.	34	CARGAS	2.100	0.000	0.000
...ELEM.	20	CARGAS	2.370	0.000	0.000
...ELEM.	6	CARGAS	2.650	0.000	0.000
C.U.ELEM.	133	CARGAS	0.160	0.000	0.000
C.U.ELEM.	119	CARGAS	0.470	0.000	0.000
C.U.ELEM.	105	CARGAS	0.780	0.000	0.000
C.U.ELEM.	91	CARGAS	1.100	0.000	0.000
C.U.ELEM.	77	CARGAS	1.410	0.000	0.000
C.U.ELEM.	63	CARGAS	1.720	0.000	0.000
C.U.ELEM.	49	CARGAS	2.030	0.000	0.000

.E.ELEM.	18	CARGAS	3.350	0.000	0.000
.E.ELEM.	21	CARGAS	3.060	0.000	0.000
.E.ELEM.		CARGAS	2.770	0.000	0.000
.E.ELEM.	134	CARGAS	0.170	0.000	0.000
.E.ELEM.	20	CARGAS	0.530	0.000	0.000
.E.ELEM.	106	CARGAS	0.870	0.000	0.000
.E.ELEM.	92	CARGAS	1.210	0.000	0.000
.E.ELEM.	78	CARGAS	1.560	0.000	0.000
.E.ELEM.	64	CARGAS	1.910	0.000	0.000
.E.ELEM.	50	CARGAS	2.250	0.000	0.000
.E.ELEM.	36	CARGAS	2.600	0.000	0.000
.E.ELEM.	22	CARGAS	2.950	0.000	0.000
.E.EM.	8	CARGAS	3.290	0.000	0.000
.E.ELEM.	12	CARGAS	0.190	0.000	0.000
.E.ELEM.	127	CARGAS	0.970	0.000	0.000
.E.ELEM.	97	CARGAS	1.350	0.000	0.000
.E.ELEM.	82	CARGAS	1.730	0.000	0.000
.E.ELEM.	79	CARGAS	1.710	0.000	0.000
E.ELEM.	66	CARGAS	2.090	0.000	0.000
.E.ELEM.	51	CARGAS	2.470	0.000	0.000
E.ELEM.	37	CARGAS	2.850	0.000	0.000
E.ELEM.	23	CARGAS	3.230	0.000	0.000
E.EM.	9	CARGAS	3.610	0.000	0.000
.E.ELEM.	131	CARGAS	0.210	0.000	0.000
.E.ELEM.	22	CARGAS	0.830	0.000	0.000
E.ELEM.	15	CARGAS	1.140	0.000	0.000
E.ELEM.	4	CARGAS	1.450	0.000	0.000
E.ELEM.	81	CARGAS	1.960	0.000	0.000
E.ELEM.	13	CARGAS	2.090	0.000	0.000
E.ELEM.	82	CARGAS	2.090	0.000	0.000
E.ELEM.	96	CARGAS	2.710	0.000	0.000
E.ELEM.	84	CARGAS	2.331	0.000	0.000
E.ELEM.	71	CARGAS	2.330	0.000	0.000
E.ELEM.	107	CARGAS	1.220	0.000	0.000
E.ELEM.	93	CARGAS	1.570	0.000	0.000
E.ELEM.	67	CARGAS	2.210	0.000	0.000
.E.ELEM.	37	CARGAS	2.460	0.000	0.000
.E.ELEM.	52	CARGAS	2.510	0.000	0.000
.E.ELEM.	39	CARGAS	3.060	0.000	0.000
.E.ELEM.	25	CARGAS	3.510	0.000	0.000
.ELEM.	11	CARGAS	4.050	0.000	0.000
.E.ELEM.	138	CARGAS	0.240	0.000	0.000
.E.ELEM.	124	CARGAS	0.720	0.000	0.000
.E.ELEM.	110	CARGAS	1.200	0.000	0.000
.E.ELEM.	96	CARGAS	1.680	0.000	0.000
.E.ELEM.	82	CARGAS	2.170	0.000	0.000
.E.ELEM.	68	CARGAS	2.650	0.000	0.000
C.U.ELEM.	54	CARGAS	3.130	0.000	0.000
C.U.ELEM.	40	CARGAS	3.610	0.000	0.000
C.U.ELEM.	26	CARGAS	4.090	0.000	0.000
C.U.ELEM.	12	CARGAS	4.570	0.000	0.000
C.U.ELEM.	139	CARGAS	0.260	0.000	0.000
C.U.ELEM.	125	CARGAS	0.770	0.000	0.000
C.U.ELEM.	111	CARGAS	1.290	0.000	0.000
C.U.ELEM.	97	CARGAS	1.800	0.000	0.000
C.U.ELEM.	83	CARGAS	2.320	0.000	0.000

.U.ELEM.	69	CARGAS	3.230	0.000	0.000
.U.ELEM.	55	CARGAS	3.250	0.000	0.000
.U.ELEM.	41	CARGAS	3.860	0.000	0.000
.U.ELEM.	27	CARGAS	4.380	0.000	0.000
.U.ELEM.	13	CARGAS	4.690	0.000	0.000
.U.ELEM.	140	CARGAS	0.270	0.000	0.000
.U.ELEM.	126	CARGAS	0.020	0.000	0.000
.U.ELEM.	112	CARGAS	1.370	0.000	0.000
.U.ELEM.	98	CARGAS	1.920	0.000	0.000
.U.ELEM.	84	CARGAS	2.470	0.000	0.000
.U.ELEM.	70	CARGAS	3.020	0.000	0.000
.U.ELEM.	56	CARGAS	3.570	0.000	0.000
.U.ELEM.	42	CARGAS	4.110	0.000	0.000
.U.ELEM.	28	CARGAS	4.660	0.000	0.000
.U.ELEM.	14	CARGAS	5.210	0.000	0.000
.U.ELEM.	155	CARGAS	0.640	0.000	0.000
.U.ELEM.	157	CARGAS	1.210	0.000	0.000
.U.ELEM.	155	CARGAS	1.770	0.000	0.000
.U.ELEM.	153	CARGAS	2.340	0.000	0.000
.U.ELEM.	151	CARGAS	2.900	0.000	0.000
.U.ELEM.	149	CARGAS	3.470	0.000	0.000
.U.ELEM.	147	CARGAS	4.030	0.000	0.000
.U.ELEM.	145	CARGAS	4.600	0.000	0.000
.U.ELEM.	143	CARGAS	5.160	0.000	0.000
.U.ELEM.	141	CARGAS	5.730	0.000	0.000
.U.ELEM.	000	CARGAS	0.640	0.000	0.000
.U.ELEM.	001	CARGAS	1.210	0.000	0.000
.U.ELEM.	002	CARGAS	1.770	0.000	0.000
.U.ELEM.	004	CARGAS	2.340	0.000	0.000
.U.ELEM.	006	CARGAS	2.900	0.000	0.000
.U.ELEM.	008	CARGAS	3.470	0.000	0.000
.U.ELEM.	010	CARGAS	4.030	0.000	0.000
.U.ELEM.	012	CARGAS	4.600	0.000	0.000
.U.ELEM.	014	CARGAS	5.160	0.000	0.000
.U.ELEM.	016	CARGAS	5.730	0.000	0.000

.TANTE Y MOMENTO DE LAS CARGAS EXTERIORES

.LTANTE
88..51

.MENTO EN EL ORIGEN
660.44 -1038.55

elef Viaducto sobre el Ebro -aleta estribo 1-

hipo 1 empuje de tierras hP@(

HIPOTESIS NUMERO 1

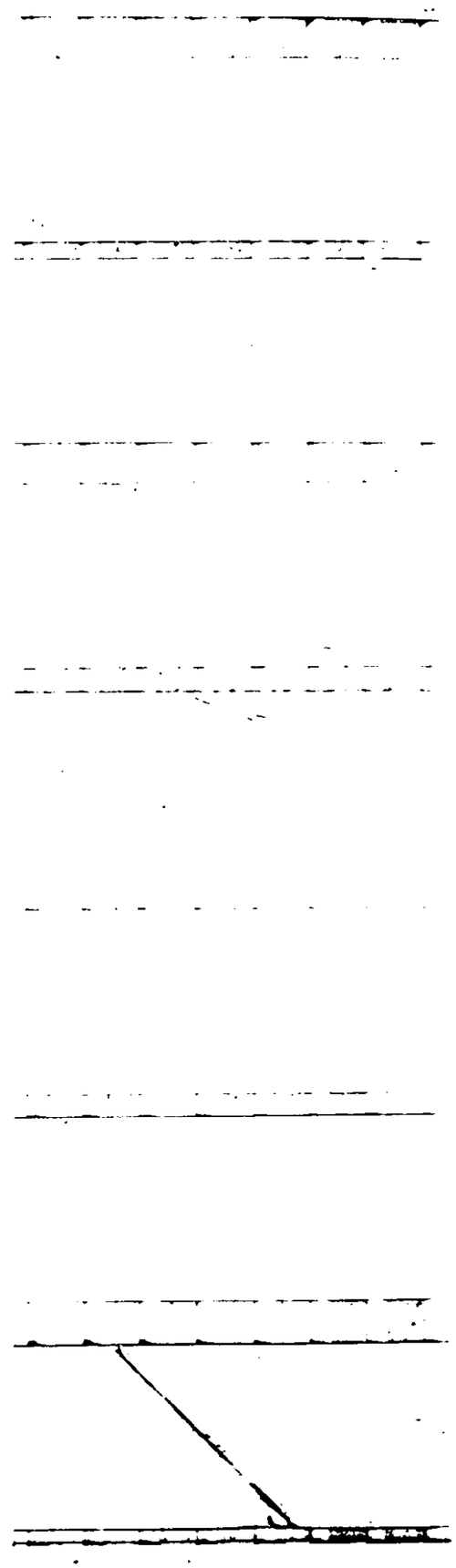
DESPLAZAMIENTOS DE LOS NODOS

NUDO	DESP. Z	GIRO X	GIRO Y
1	0.005660	-0.001214	-0.000046
2	0.006982	-0.001209	-0.000049
3	0.006332	-0.001212	-0.000060
4	0.005678	-0.001215	-0.000044
5	0.005648	-0.001214	-0.000047
6	0.006294	-0.001211	0.000000
7	0.006948	-0.001208	-0.000053
8	0.006961	-0.001209	-0.000052
9	0.005025	-0.001218	-0.000053
10	0.004369	-0.001221	-0.000039
11	0.004353	-0.001220	-0.000041
12	0.004343	-0.001219	-0.000041
13	0.004992	-0.001217	0.000000
14	0.008358	-0.001207	-0.000103
15	0.007700	-0.001211	-0.000095
16	0.007046	-0.001214	-0.000094
17	0.007011	-0.001211	-0.000072
18	0.007633	-0.001206	-0.000066
19	0.008280	-0.001204	-0.000053
20	0.008313	-0.001205	-0.000079
21	0.007590	-0.001206	0.000000
22	0.008248	-0.001203	-0.000059
23	0.008257	-0.001202	-0.000057
24	0.006391	-0.001216	-0.000087
25	0.005736	-0.001219	-0.000085
26	0.005704	-0.001217	-0.000065
27	0.005078	-0.001222	-0.000078
28	0.004419	-0.001225	-0.000076
29	0.004392	-0.001223	-0.000058
30	0.003759	-0.001228	-0.000070
31	0.003097	-0.001231	-0.000067
32	0.003073	-0.001229	-0.000051
33	0.003053	-0.001227	-0.000034
34	0.003713	-0.001224	-0.000047
35	0.003039	-0.001226	-0.000035
36	0.003031	-0.001226	-0.000036
37	0.003685	-0.001223	0.000000
38	0.009877	-0.001208	-0.000153
39	0.009262	-0.001212	-0.000150
40	0.008646	-0.001216	-0.000144
41	0.008493	-0.001211	-0.000125
42	0.009002	-0.001204	-0.000104

43	0.009652	-0.001200	-0.000111
44	0.009759	-0.001204	-0.000134
45	0.008028	-0.001219	-0.000140
46	0.007408	-0.001221	-0.000134
47	0.007221	-0.001217	-0.000115
48	0.008929	-0.001199	-0.000072
49	0.009573	-0.001194	-0.000057
50	0.009609	-0.001196	-0.000085
51	0.006787	-0.001224	-0.000130
52	0.006165	-0.001227	-0.000123
53	0.005945	-0.001223	-0.000105
54	0.008681	-0.001198	0.000000
55	0.009532	-0.001192	-0.000065
56	0.009548	-0.001198	-0.000062
57	0.009541	-0.001229	-0.000119
58	0.004916	-0.001232	-0.000113
59	0.004663	-0.001228	-0.000095
60	0.004291	-0.001235	-0.000108
61	0.003664	-0.001237	-0.000102
62	0.003376	-0.001234	-0.000085
63	0.003035	-0.001240	-0.000097
64	0.002405	-0.001243	-0.000092
65	0.002081	-0.001240	-0.000076
66	0.001767	-0.001238	-0.000059
67	0.002433	-0.001235	-0.000062
68	0.001746	-0.001236	-0.000045
69	0.001729	-0.001235	-0.000030
70	0.002393	-0.001231	-0.000041
71	0.001718	-0.001234	-0.000031
72	0.001710	-0.001233	-0.000031
73	0.002370	-0.001230	0.000000
74	0.011303	-0.001214	-0.000194
75	0.010725	-0.001217	-0.000196
76	0.010146	-0.001220	-0.000194
77	0.010006	-0.001214	-0.000175
78	0.010491	-0.001205	-0.000157
79	0.011101	-0.001200	-0.000153
80	0.011198	-0.001207	-0.000175
81	0.010298	-0.001195	-0.000110
82	0.010944	-0.001192	-0.000114
83	0.011017	-0.001195	-0.000135
84	0.009564	-0.001223	-0.000189
85	0.008981	-0.001226	-0.000184
86	0.008809	-0.001221	-0.000166
87	0.008396	-0.001229	-0.000179
88	0.007811	-0.001232	-0.000173
89	0.007604	-0.001227	-0.000155
90	0.010220	-0.001188	-0.000082
91	0.010857	-0.001175	-0.000062
92	0.010897	-0.001187	-0.000088
93	0.007224	-0.001235	-0.000167
94	0.006635	-0.001237	-0.000162
95	0.006395	-0.001232	-0.000143
96	0.010163	-0.001204	0.000000
97	0.010813	-0.001229	-0.000102
98	0.010832	-0.001177	-0.000082
99	0.006047	-0.001240	-0.000155
100	0.005456	-0.001242	-0.000150

101	0.005181	-0.001277	0.000132
102	0.004964	-0.001245	-0.000144
103	0.004270	-0.001247	-0.000138
104	0.003963	-0.001248	-0.000120
105	0.003477	-0.001249	-0.000132
106	0.003063	-0.001253	-0.000126
107	0.002739	-0.001247	-0.000109
108	0.002495	-0.001254	-0.000120
109	0.001989	-0.001256	-0.000115
110	0.001810	-0.001252	-0.000099
111	0.001541	-0.001249	-0.000082
112	0.001774	-0.001246	-0.000087
113	0.000781	-0.001247	-0.000068
114	0.000429	-0.001246	-0.000053
115	0.000695	-0.001248	-0.000055
116	0.000413	-0.001244	-0.000041
117	0.000395	-0.001243	-0.000027
118	0.000764	-0.001237	-0.000036
119	0.000784	-0.001241	-0.000027
120	0.000279	-0.001248	-0.000026
121	0.000145	-0.001248	0.000000
122	0.001548	-0.001227	-0.000028
123	0.001796	-0.001230	-0.000230
124	0.001450	-0.001233	-0.000228
125	0.000894	-0.001227	-0.000212
126	0.001419	-0.001226	-0.000212
127	0.001718	-0.001225	-0.000224
128	0.001534	-0.001235	-0.000219
129	0.000712	-0.001233	-0.000203
130	0.001312	-0.001241	-0.000213
131	0.001251	-0.001244	-0.000208
132	0.001127	-0.001236	-0.000191
133	0.001491	-0.001246	-0.000202
134	0.001744	-0.001249	-0.000196
135	0.001184	-0.001247	-0.000180
136	0.000550	-0.001251	-0.000190
137	0.000722	-0.001254	-0.000184
138	0.001740	-0.001249	-0.000168
139	0.001476	-0.001256	-0.000178
140	0.001417	-0.001255	-0.000172
141	0.001298	-0.001253	-0.000156
142	0.001251	-0.001260	-0.000166
143	0.001798	-0.001262	-0.000160
144	0.001435	-0.001257	-0.000144
145	0.001237	-0.001264	-0.000154
146	0.001876	-0.001266	-0.000149
147	0.001277	-0.001261	-0.000132
148	0.001718	-0.001267	-0.000143
149	0.001550	-0.001269	-0.000136
150	0.001115	-0.001264	-0.000120
151	0.000891	-0.001259	-0.000103
152	0.001291	-0.001258	-0.000109
153	0.000277	-0.001256	-0.000088
154	-0.000128	-0.001254	-0.000073
155	0.000506	-0.001251	-0.000078
156	-0.000526	-0.001253	-0.000061
157	-0.000916	-0.001252	-0.000051
158	-0.000243	-0.001250	-0.000051

159	-0.000934	-0.001252	-0.000044
160	-0.000949	-0.001252	-0.000036
161	-0.000876	-0.001247	-0.000035
162	-0.000962	-0.001251	-0.000036
163	-0.000973	-0.001240	-0.000036
164	-0.000294	-0.001242	0.000000
165	0.011812	-0.001242	-0.000258
166	0.011301	-0.001244	-0.000260
167	0.010788	-0.001246	-0.000258
168	0.010615	-0.001240	-0.000244
169	0.011673	-0.001235	-0.000244
170	0.010275	-0.001249	-0.000254
171	0.009759	-0.001251	-0.000249
172	0.009553	-0.001245	-0.000235
173	0.009244	-0.001254	-0.000244
174	0.008727	-0.001256	-0.000239
175	0.008485	-0.001250	-0.000224
176	0.008209	-0.001259	-0.000233
177	0.007690	-0.001261	-0.000228
178	0.007413	-0.001256	-0.000213
179	0.007170	-0.001264	-0.000222
180	0.006649	-0.001266	-0.000216
181	0.006336	-0.001260	-0.000201
182	0.006126	-0.001268	-0.000211
183	0.005804	-0.001270	-0.000205
184	0.005256	-0.001265	-0.000189
185	0.005079	-0.001272	-0.000199
186	0.004555	-0.001274	-0.000194
187	0.004172	-0.001269	-0.000178
188	0.004030	-0.001276	-0.000188
189	0.003503	-0.001277	-0.000183
190	0.003084	-0.001272	-0.000166
191	0.002977	-0.001278	-0.000177
192	0.002449	-0.001279	-0.000171
193	0.001994	-0.001274	-0.000154
194	0.001921	-0.001279	-0.000164
195	0.001392	-0.001279	-0.000155
196	0.000901	-0.001274	-0.000138
197	0.000421	-0.001268	-0.000120
198	0.000985	-0.001269	-0.000129
199	-0.000050	-0.001264	-0.000104
200	-0.000510	-0.001260	-0.000088
201	0.000090	-0.001260	-0.000096
202	-0.000962	-0.001257	-0.000074
203	-0.001404	-0.001255	-0.000061
204	-0.000765	-0.001255	-0.000069
205	-0.001839	-0.001255	-0.000053
206	-0.002268	-0.001255	-0.000050
207	-0.001591	-0.001255	-0.000050
208	-0.002285	-0.001254	-0.000049
209	-0.002300	-0.001253	-0.000048
210	-0.001624	-0.001252	-0.000045
211	-0.002315	-0.001250	-0.000047
212	-0.002331	-0.001250	-0.000048
213	-0.001654	-0.001246	-0.000044
214	0.012108	-0.001257	-0.000284
215	0.011632	-0.001258	-0.000286
216	0.011153	-0.001260	-0.000284



217	[illegible]	-0.001254	-0.000272
218	[illegible]	-0.001247	-0.000272
219	[illegible]	-0.001262	-0.000281
220	[illegible]	-0.001264	-0.000276
221	[illegible]	-0.001252	-0.000264
222	0.003716	-0.001267	-0.000271
223	0.003704	-0.001269	-0.000266
224	[illegible]	-0.001263	-0.000253
225	0.003758	-0.001271	-0.000261
226	0.003661	-0.001274	-0.000256
227	0.003778	-0.001269	-0.000243
228	0.003783	-0.001276	-0.000251
229	0.003698	-0.001278	-0.000246
230	0.003709	-0.001273	-0.000239
231	0.003813	-0.001280	-0.000241
232	0.003826	-0.001282	-0.000236
233	0.003760	-0.001277	-0.000221
234	0.003739	-0.001264	-0.000231
235	0.003751	-0.001286	-0.000226
236	[illegible]	-0.001280	-0.000210
237	[illegible]	-0.001287	-0.000221
238	[illegible]	-0.001289	-0.000216
239	[illegible]	-0.001283	-0.000200
240	[illegible]	-0.001290	-0.000210
241	[illegible]	-0.001290	-0.000205
242	[illegible]	-0.001285	-0.000188
243	[illegible]	-0.001291	-0.000198
244	[illegible]	-0.001296	-0.000191
245	[illegible]	-0.001295	-0.000173
246	[illegible]	-0.001371	-0.000306
247	[illegible]	-0.001372	-0.000308
248	[illegible]	-0.001374	-0.000307
249	[illegible]	-0.001366	-0.000296
250	[illegible]	-0.001264	-0.000296
251	[illegible]	-0.001277	-0.000304
252	[illegible]	-0.001277	-0.000300
253	[illegible]	-0.001271	-0.000289
254	[illegible]	-0.001279	-0.000296
255	[illegible]	-0.001281	-0.000291
256	[illegible]	-0.001276	-0.000280
257	[illegible]	-0.001284	-0.000287
258	0.003877	-0.001286	-0.000282
259	0.003869	-0.001290	-0.000270
260	0.003830	-0.001288	-0.000278
261	0.003798	-0.001290	-0.000273
262	0.003836	-0.001285	-0.000261
263	0.003832	-0.001292	-0.000269
264	0.003783	-0.001294	-0.000265
265	0.003700	-0.001289	-0.000251
266	0.003639	-0.001295	-0.000260
267	0.003782	-0.001297	-0.000256
268	0.003761	-0.001292	-0.000242
269	0.003730	-0.001298	-0.000251
270	0.003279	-0.001300	-0.000247
271	0.004821	-0.001295	-0.000232
272	0.004827	-0.001301	-0.000242
273	0.004373	-0.001301	-0.000238
274	0.003877	-0.001296	-0.000228

275	0.009520	-0.001301	-0.000332
276	0.009467	-0.001301	-0.000329
277	0.009233	-0.001296	-0.000309
278	0.012767	-0.001285	-0.000325
279	0.012362	-0.001291	-0.000327
280	0.011857	-0.001287	-0.000326
281	0.011749	-0.001281	-0.000317
282	0.012595	-0.001278	-0.000317
283	0.012551	-0.001288	-0.000324
284	0.012145	-0.001290	-0.000320
285	0.012299	-0.001284	-0.000311
286	0.012738	-0.001292	-0.000317
287	0.012330	-0.001297	-0.000313
288	0.012047	-0.001289	-0.000303
289	0.009922	-0.001295	-0.000309
290	0.009513	-0.001287	-0.000305
291	0.009191	-0.001298	-0.000295
292	0.009104	-0.001299	-0.000302
293	0.009694	-0.001301	-0.000298
294	0.009334	-0.001296	-0.000286
295	0.009293	-0.001303	-0.000294
296	0.009571	-0.001304	-0.000291
297	0.009772	-0.001300	-0.000278
298	0.009760	-0.001303	-0.000287
299	0.009714	-0.001307	-0.000283
300	0.009510	-0.001303	-0.000270
301	0.009934	-0.001306	-0.000280
302	0.010021	-0.001310	-0.000276
303	0.010148	-0.001305	-0.000262
304	0.010319	-0.001310	-0.000272
305	0.010154	-0.001311	-0.000268
306	0.009776	-0.001317	-0.000254
307	0.009586	-0.001311	-0.000264
308	0.009508	-0.001311	-0.000258
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310	0.011381	-0.001333	-0.000341
311	0.011875	-0.001299	-0.000343
312	0.011886	-0.001299	-0.000342
313	0.011870	-0.001294	-0.000335
314	0.012843	-0.001332	-0.000334
315	0.012138	-0.001300	-0.000340
316	0.011951	-0.001302	-0.000337
317	0.011995	-0.001296	-0.000330
318	0.011889	-0.001303	-0.000335
319	0.010913	-0.001304	-0.000332
320	0.010619	-0.001300	-0.000323
321	0.010543	-0.001306	-0.000328
322	0.010173	-0.001307	-0.000325
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324	0.009802	-0.001309	-0.000322
325	0.009431	-0.001311	-0.000319
326	0.009060	-0.001306	-0.000309
327	0.009061	-0.001312	-0.000316
328	0.008689	-0.001314	-0.000313
329	0.008277	-0.001310	-0.000303
330	0.008316	-0.001315	-0.000311
331	0.007943	-0.001316	-0.000308
332	0.007498	-0.001312	-0.000296

333	0.007570	-0.001317	-0.000305
334	0.007196	-0.001318	-0.000302
335	0.006705	-0.001315	-0.000290
336	0.006822	-0.001319	-0.000299
337	0.006449	-0.001320	-0.000296
338	0.005917	-0.001316	-0.000283
339	0.006075	-0.001320	-0.000292
340	0.005700	-0.001319	-0.000287
341	0.005128	-0.001316	-0.000273
342	0.013488	-0.001310	-0.000354
343	0.013160	-0.001310	-0.000355
344	0.012832	-0.001310	-0.000355
345	0.012607	-0.001306	-0.000349
346	0.013304	-0.001304	-0.000348
347	0.012503	-0.001311	-0.000353
348	0.012174	-0.001312	-0.000351
349	0.011911	-0.001308	-0.000345
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352	0.011211	-0.001310	-0.000340
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354	0.010854	-0.001317	-0.000342
355	0.010512	-0.001313	-0.000335
356	0.010525	-0.001318	-0.000340
357	0.010193	-0.001319	-0.000338
358	0.009810	-0.001316	-0.000329
359	0.009862	-0.001320	-0.000335
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363	0.008866	-0.001324	-0.000329
364	0.008402	-0.001321	-0.000319
365	0.008533	-0.001325	-0.000327
366	0.008201	-0.001325	-0.000324
367	0.007695	-0.001322	-0.000314
368	0.007868	-0.001326	-0.000322
369	0.007534	-0.001326	-0.000320
370	0.006988	-0.001324	-0.000309
371	0.007201	-0.001327	-0.000317
372	0.006868	-0.001326	-0.000313
373	0.006280	-0.001323	-0.000301
374	0.013664	-0.001319	-0.000364
375	0.013575	-0.001320	-0.000365
376	0.013287	-0.001320	-0.000365
377	0.013059	-0.001316	-0.000360
378	0.013676	-0.001315	-0.000360
379	0.012998	-0.001320	-0.000364
380	0.012710	-0.001321	-0.000362
381	0.012440	-0.001317	-0.000357
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383	0.012132	-0.001323	-0.000359
384	0.011822	-0.001319	-0.000354
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386	0.011552	-0.001324	-0.000356
387	0.011202	-0.001321	-0.000350
388	0.011263	-0.001325	-0.000354
389	0.010973	-0.001326	-0.000352
390	0.010582	-0.001323	-0.000346

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392	0.013981	-0.001326	-0.000349
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394	0.014116	-0.001329	-0.000348
395	0.014061	-0.001330	-0.000346
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401	0.013848	-0.001332	-0.000340
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403	0.013782	-0.001332	-0.000338
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405	0.013748	-0.001330	-0.000325
406	0.014247	-0.001328	-0.000371
407	0.014006	-0.001328	-0.000371
408	0.013751	-0.001328	-0.000371
409	0.013914	-0.001334	-0.000368
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413	0.013819	-0.001325	-0.000367
414	0.013979	-0.001329	-0.000369
415	0.013847	-0.001329	-0.000368
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421	0.013977	-0.001328	-0.000363
422	0.013873	-0.001334	-0.000359
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457	0.011714	-0.001345	-0.000366
458	0.011954	-0.001337	-0.000369
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466	0.010349	-0.001337	-0.000362
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468	0.010508	-0.001336	-0.000365
469	0.009891	-0.001337	-0.000359
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495	0.011969	-0.001339	-0.000371
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498	0.011498	-0.001339	-0.000370
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500	0.011748	-0.001339	-0.000372
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502	0.015403	-0.001339	-0.000376
503	0.015283	-0.001339	-0.000376
504	0.015162	-0.001339	-0.000376
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509	0.014643	-0.001338	-0.000376
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530	0.012655	-0.001339	-0.000374
531	0.013113	-0.001339	-0.000375
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533	0.012371	-0.001339	-0.000374

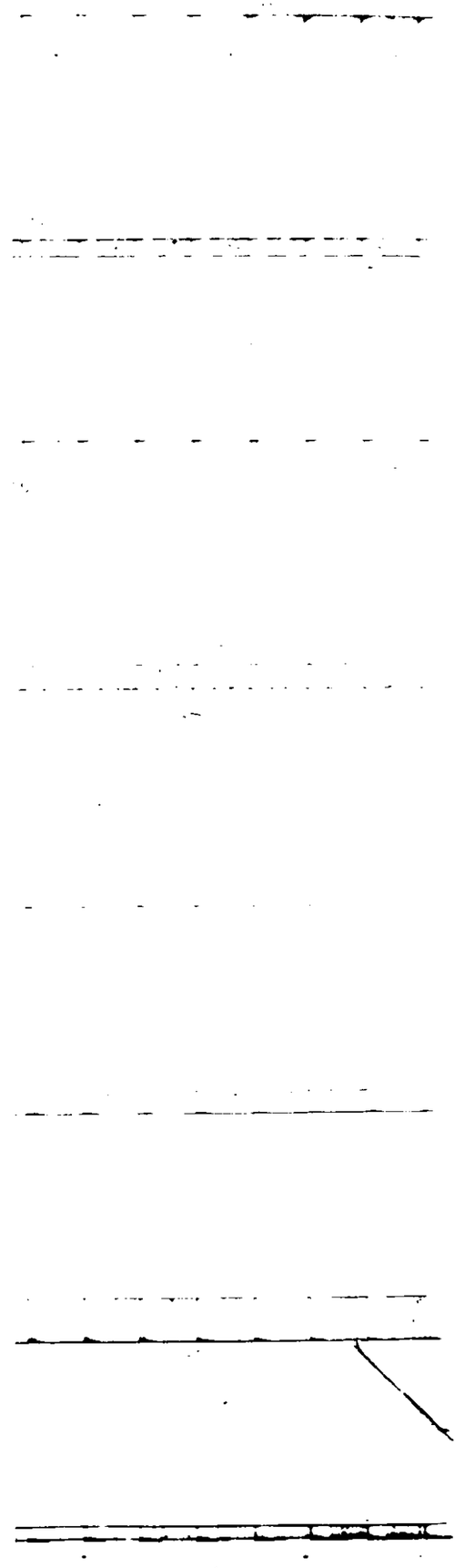
ESFUERZOS EN ELEMENTOS

ELEM.	P.	X	Y	MX	MY	MXY	QX	QY	Q	ALFA	M1	M2
1	1	15.53	0.04	-0.01	0.00	-0.01	-0.23	-0.01	0.23	-55.99	0.01	-0.00
1	2	15.53	0.15	-0.01	-0.01	-0.03	-0.14	0.00	0.14	-45.69	0.03	-0.01
1	3	14.94	0.18	0.01	-0.02	-0.14	-0.65	-0.04	0.65	-41.58	0.14	-0.04
1	4	14.94	0.05	0.05	0.00	-0.03	-0.98	-0.01	0.98	-27.80	0.07	-0.02
2	1	14.51	0.05	0.14	-0.01	-0.09	-1.64	-0.01	1.64	-24.94	0.19	-0.05
2	2	14.51	0.20	0.11	-0.03	-0.22	-1.08	-0.03	1.08	-36.24	0.27	-0.20
2	3	13.92	0.23	0.38	-0.03	-0.40	-1.67	-0.04	1.67	-31.50	0.82	-0.27
2	4	13.92	0.06	0.42	0.01	-0.13	-2.61	-0.04	2.61	-15.78	0.45	-0.03
3	1	13.49	0.07	0.71	-0.03	-0.20	-3.39	-0.03	3.39	-14.37	0.76	-0.09
3	2	13.49	0.25	0.66	-0.08	-0.56	-2.13	-0.05	2.13	-28.41	0.96	-0.39
3	3	12.90	0.28	1.19	-0.05	-0.84	-2.81	-0.07	2.81	-26.81	1.62	-0.47
3	4	12.90	0.08	1.25	0.02	-0.28	-4.59	-0.05	4.59	-12.32	1.32	-0.04
4	1	12.47	0.08	1.75	-0.05	-0.39	-5.52	-0.04	5.52	-11.67	1.93	-0.13
4	2	12.47	0.30	1.67	-0.14	-1.09	-3.33	-0.09	3.33	-25.15	2.18	-0.65
4	3	11.88	0.33	2.50	-0.08	-1.48	-4.09	-0.09	4.09	-24.47	3.17	-0.75
4	4	11.88	0.09	2.59	0.03	-0.52	-6.93	-0.06	6.93	-10.93	2.69	-0.07
5	1	11.45	0.10	3.32	-0.07	-0.66	-8.00	-0.06	8.00	-10.54	3.45	-0.20
5	2	11.45	0.36	3.21	-0.21	-1.82	-4.66	-0.11	4.66	-23.38	4.00	-1.00
5	3	10.86	0.38	4.40	-0.12	-2.33	-5.51	-0.11	5.51	-22.98	5.38	-1.11
5	4	10.86	0.10	4.53	0.04	-0.83	-9.59	-0.08	9.59	-10.12	4.67	-0.11
6	1	10.43	0.11	5.55	-0.11	-1.01	-10.84	-0.07	10.84	-9.79	5.72	-0.28
6	2	10.43	0.41	5.40	-0.30	-2.77	-6.14	-0.12	6.14	-22.12	6.52	-1.43
6	3	9.84	0.44	7.02	-0.15	-3.41	-7.07	-0.13	7.07	-21.77	8.38	-1.52
6	4	9.84	0.12	7.19	0.05	-1.23	-12.60	-0.08	12.60	-9.49	7.40	-0.15
7	1	9.41	0.12	8.57	-0.15	-1.44	-13.95	-0.08	13.95	-9.14	8.80	-0.38

	2	9.41	0.46	8.37	-0.40	-3.94	-7.77	-0.13	7.77	-26.37	9.6[illegible]	[illegible]
	3	8.82	0.49	10.51	-0.19	-4.68	-8.80	-0.12	8.80	-20.-9	12.87	-1.05
	4	8.82	0.13	10.74	0.07	-1.70	-15.86	0.09	15.86	-8.36	[illegible]	-0.[illegible]
	1	8.28	0.14	12.55	-0.19	-1.95	-17.33	-0.09	17.33	-8.[illegible]	[illegible]	-0.48
	2	8.28	0.51	12.30	-0.49	-5.30	-9.56	-0.11	9.56	18.81	[illegible]	-2.40
	3	7.79	0.54	15.11	-0.20	-6.12	-10.71	-0.09	10.71	-18.32	17.24	-2.34
	4	7.79	0.14	15.40	0.10	-2.26	-19.35	-0.08	19.35	-8.28	15.78	-0.28
	1	7.29	0.15	17.74	-0.24	-2.52	-20.88	-0.06	20.88	-7.82	18.09	-0.59
	2	7.33	0.56	17.44	-0.57	-6.79	-11.55	0.02	11.55	-18.52	18.71	-3.[illegible]
	3	6.77	0.59	21.08	-0.16	-7.66	-12.79	-0.01	12.79	-17.91	23.66	-2.62
	4	6.77	0.16	21.43	0.14	-2.84	-22.99	-0.06	22.99	-7.47	21.80	-0.[illegible]
	1	6.34	0.18	24.45	-0.30	-3.12	-24.56	-0.03	24.56	-7.09	24.84	-0.98
	2	6.34	0.61	24.10	-0.61	-8.34	-13.73	0.04	13.73	17.02	26.65	-3.16
	3	5.79	0.34	28.79	-0.07	-9.16	-15.15	0.06	15.15	-16.20	31.45	-2.74
	4	5.79	0.17	29.19	0.23	-3.45	-26.68	0.04	26.68	-6.71	29.56	-0.[illegible]
	1	5.32	0.18	33.08	-0.32	-3.70	-28.25	0.01	28.25	-6.94	33.49	-0.78
	2	5.32	0.66	32.65	-0.55	-9.82	-16.16	0.17	16.16	-15.31	36.22	-3.[illegible]
	3	4.77	0.69	38.69	0.25	-10.63	-17.73	0.34	17.73	-14.47	41.41	-2.50
	4	4.77	0.18	39.16	0.18	-3.92	-30.37	0.02	30.37	-5.89	39.55	-0.81
	1	4.31	0.19	44.11	-0.50	-4.23	-31.90	0.19	31.90	-5.68	44.50	-0.[illegible]
	2	4.31	0.71	43.76	-0.49	-11.08	-18.97	0.40	18.97	-13.39	46.38	-3.[illegible]
	3	3.[illegible]	0.74	51.52	0.26	-11.22	-20.89	0.38	20.89	-11.83	53.97	-2.[illegible]
	4	3.71	0.20	51.88	0.81	-4.64	-33.81	0.57	33.81	-5.16	52.31	[illegible]
	1	3.72	0.20	48.38	0.01	-4.46	-35.30	0.11	35.[illegible]	-4.44	59.72	-0.[illegible]
	2	3.[illegible]	0.[illegible]	57.70	0.19	-11.81	-22.07	0.73	22.08	-11.16	60.02	-3.[illegible]
	3	2.[illegible]	0.79	67.68	2.24	-13.37	-23.92	1.89	23.99	-11.11	70.21	-0.38
	4	2.71	1.31	68.09	-0.81	-3.71	-37.30	0.61	37.31	-2.08	69.20	-1.[illegible]
	1	2.76	0.[illegible]	75.37	-2.88	-5.24	-38.01	1.56	38.05	-3.84	79.78	-2.[illegible]
	2	2.[illegible]	0.[illegible]	76.72	-0.77	-12.32	-26.00	1.82	26.06	-6.32	78.[illegible]	-3.[illegible]
	3	[illegible]	1.84	90.15	-1.28	-6.93	-29.79	0.08	29.79	-4.[illegible]	90.[illegible]	-1.[illegible]
	4	[illegible]	1.13	87.00	5.87	-8.08	-37.92	4.25	38.18	-5.33	87.[illegible]	[illegible]
	1	3.53	0.23	-0.01	-0.03	-0.04	-0.10	0.02	0.11	-40.23	0.05	-1.[illegible]
	2	[illegible]	1.[illegible]	0.02	-0.05	-0.06	-0.08	0.03	0.09	-37.53	1.[illegible]	-1.[illegible]
	3	-1.[illegible]	0.41	0.08	-0.07	-0.21	-0.35	0.01	0.38	-33.32	3.[illegible]	-1.[illegible]
	4	-1.[illegible]	0.[illegible]	0.01	-0.04	-0.18	-0.50	0.01	0.50	-41.08	1.[illegible]	-1.[illegible]
	1	-.5	0.71	0.11	-0.07	-0.29	-0.83	-0.02	0.83	-34.89	0.[illegible]	-1.[illegible]
	2	-.5	0.46	0.11	-0.11	-0.35	-0.60	0.04	0.60	-36.01	0.26	-0.[illegible]
	3	[illegible]	0.53	0.40	-0.13	-0.59	-0.92	0.08	0.92	-33.08	0.76	-1.[illegible]
	4	[illegible]	0.[illegible]	0.38	-0.07	-0.51	-1.27	0.00	1.27	-33.02	0.71	-1.[illegible]
	1	[illegible]	0.39	0.66	-0.14	-0.70	-1.62	0.00	1.62	-36.14	1.07	-1.[illegible]
	2	[illegible]	0.58	0.68	-0.23	-0.83	-1.16	0.08	1.17	30.59	1.[illegible]	-1.[illegible]
	3	2.90	0.64	1.22	-0.24	-1.21	-1.52	0.17	1.56	-25.47	1.90	-0.[illegible]
	4	12.50	0.44	1.19	-0.14	-1.05	-2.12	0.01	2.12	-28.86	1.77	-0.7[illegible]
	1	12.47	0.47	1.68	-0.25	-1.34	-2.51	-0.01	2.51	-27.13	2.36	-0.[illegible]
	2	12.47	0.69	1.70	-0.40	-1.55	-1.79	0.15	1.79	37.92	2.59	-1.[illegible]
	3	11.88	0.76	2.53	-0.38	-2.08	-2.18	0.19	2.19	-27.47	3.61	-1.46
	4	11.88	0.51	2.50	-0.22	-1.82	-3.06	0.01	3.06	-26.61	3.41	-1.[illegible]
	1	11.45	0.55	3.22	-0.38	-2.20	-3.49	0.02	3.49	-25.38	4.27	-1.43
	2	11.45	0.81	3.25	-0.61	-2.52	-2.50	0.20	2.51	-26.32	4.56	-1.86
	3	10.86	0.87	4.43	-0.55	-3.20	-2.94	0.26	2.95	-26.09	5.99	-2.12
	4	10.86	0.59	4.39	-0.32	-2.83	-4.11	0.05	4.11	25.13	5.72	-1.64
	1	10.43	0.62	5.40	-0.55	-3.32	-4.60	0.04	4.60	-24.09	6.88	-2.03
	2	10.43	0.92	5.42	-0.85	-3.77	-3.30	0.31	3.32	-25.11	7.19	-2.61
	3	9.84	0.99	7.03	-0.74	-4.60	-3.84	0.37	3.86	-24.91	9.16	-2.87
	4	9.84	0.67	7.00	-0.42	-4.09	-5.29	0.06	5.29	-23.87	8.81	-2.23
	1	9.41	0.70	8.35	-0.72	-4.67	-5.85	0.10	5.85	-22.91	10.33	-2.69
	2	9.41	1.04	8.36	-1.10	-5.26	-4.25	0.42	4.27	-24.02	10.71	-3.45
	3	8.82	1.10	10.47	-0.90	-6.22	-4.88	0.49	4.91	-23.79	13.22	-3.64

		9.82	0.75	10.48	-0.52	-5.57	-6.63	0.13	6.63	-22.67	15.41	-4.44
		9.36	0.78	12.26	-0.89	-6.22	-7.28	0.17	7.28	-21.72	14.74	-3.27
		9.36	1.15	12.83	-1.33	-6.98	-5.40	0.57	5.47	-22.91	15.19	-4.89
		7.79	1.22	14.98	-1.00	-8.03	-6.16	0.61	6.19	-22.57	19.32	-4.34
		7.79	0.98	15.05	-0.58	-7.22	-8.18	1.22	8.19	-21.37	17.97	-3.41
		7.36	0.96	17.35	-1.01	-7.92	-8.92	0.27	8.93	-20.40	20.36	-3.95
		7.36	1.27	17.25	-1.48	-8.84	-6.75	0.71	6.79	-21.65	20.10	-4.99
		6.77	1.33	20.79	-0.98	-9.93	-7.69	0.77	7.73	-21.19	24.64	-4.93
		6.77	0.90	20.96	-0.57	-8.96	-9.95	0.31	9.96	-19.89	24.80	-3.91
		6.34	0.94	23.92	-1.04	-9.66	-10.80	0.41	10.81	-18.87	27.22	-4.34
		6.34	1.38	23.70	-1.46	-10.73	-8.44	0.86	8.48	-20.23	27.66	-5.42
		5.75	1.45	29.25	-0.74	-11.76	-9.60	0.87	9.64	-19.53	32.42	-4.01
		5.75	0.99	28.57	-0.40	-10.67	-12.04	0.48	12.05	-18.19	32.02	-3.01
		5.32	1.01	32.39	-0.91	-11.89	-13.08	0.55	13.09	-17.07	35.86	-4.30
		5.32	1.50	31.97	-1.19	-12.50	-10.52	0.98	10.56	-18.50	36.16	-5.27
		4.73	1.56	37.76	-0.19	-13.42	-11.98	1.02	12.02	-17.63	42.95	-4.45
		4.73	1.06	38.38	-0.08	-12.10	-14.56	0.58	14.57	-16.09	41.87	-3.87
		4.31	1.09	42.24	-0.57	-12.58	-15.77	0.76	15.79	-14.94	46.56	-3.98
		4.30	1.01	42.57	-0.54	-13.90	-13.20	1.06	13.24	-16.41	48.87	-4.67
		3.71	1.68	50.13	0.91	-14.22	-15.11	0.89	15.14	-15.01	53.35	-2.81
		3.71	1.14	50.95	0.73	-13.41	-17.59	0.91	17.61	-14.05	54.71	-2.66
		3.28	1.17	57.39	0.24	-13.51	-19.27	1.04	19.30	-12.65	61.43	-2.61
		3.28	1.73	56.31	0.67	-14.76	-16.63	1.06	16.66	-13.99	59.58	-3.01
		2.69	1.79	65.99	2.20	-15.73	-19.28	1.27	19.32	-13.15	67.27	-1.47
		2.39	1.21	67.46	1.40	-12.67	-21.61	0.86	21.62	-10.60	69.81	-0.18
		2.30	1.35	75.54	1.12	-12.92	-23.43	1.46	23.48	-9.59	77.72	-1.09
		2.30	1.34	74.57	2.61	-14.22	-21.84	0.63	21.95	-10.79	77.37	-1.47
		.67	1.71	86.10	6.07	-8.74	-25.91	2.28	26.01	-5.94	91.91	5.
		.67	1.20	88.95	3.75	-17.05	-27.35	2.46	27.46	-10.91	92.33	-1.44
		-5.51	0.42	-0.08	-0.07	-0.07	-0.06	0.08	0.10	-34.82	-1.17	-1.47
		-5.42	1.34	-0.01	-0.09	-0.07	-0.04	0.16	0.16	-31.92	0.12	-1.02
		-4.14	0.34	0.04	-0.12	-0.25	-0.23	0.09	0.24	-36.02	-1.28	-1.43
		-4.94	0.81	0.03	-0.09	-0.23	-0.28	0.04	0.29	-37.79	-1.91	-1.44
		-4.59	0.37	0.13	-0.14	-0.37	-0.50	0.13	0.56	-34.84	-1.33	-1.47
		-4.5	1.72	0.16	-0.18	-0.38	-0.41	0.14	0.44	-33.00	-1.47	-1.47
		-3.98	0.88	0.47	-0.22	-0.65	-0.63	0.26	0.68	-31.03	-1.21	-1.47
		-3.98	0.85	0.42	-0.18	-0.63	-0.76	0.14	0.77	-32.47	-1.38	-1.47
		-3.49	0.71	0.71	-0.29	-0.87	-0.97	0.18	0.98	-29.95	-1.81	-1.47
		-3.47	0.96	0.77	-0.36	-0.89	-0.79	0.37	0.85	-28.80	-1.86	-1.47
		-2.98	1.00	1.33	-0.39	-1.30	-1.07	0.38	1.14	-28.20	-2.13	-1.78
		-2.96	0.79	1.26	-0.38	-1.26	-1.28	0.25	1.30	-29.05	-1.91	-1.42
		-2.47	0.85	1.75	-0.50	-1.61	-1.51	0.28	1.54	-27.54	-2.29	-1.24
		-2.47	1.08	1.84	-0.61	-1.65	-1.26	0.46	1.44	-26.73	-2.87	-1.44
		-1.86	1.18	2.69	-0.62	-2.21	-1.58	0.57	1.68	-26.58	-3.79	-1.72
		-1.88	0.94	2.59	-0.50	-2.16	-1.86	0.34	1.99	-27.21	-3.70	-1.61
		-1.45	1.00	3.31	-0.76	-2.62	-2.13	0.40	2.17	-26.06	-4.09	-2.04
		-1.45	1.26	3.42	-0.92	-2.67	-1.82	0.65	1.93	-25.45	-4.70	-2.19
		-.86	1.36	4.62	-0.88	-3.38	-2.19	0.76	2.32	-25.45	-5.83	-3.48
		-.86	1.08	4.50	-0.71	-3.31	-2.53	0.47	2.68	-25.92	-5.11	-2.32
		-.43	1.14	5.50	-1.05	-3.89	-2.87	0.55	2.92	-24.94	-7.31	-2.86
		-.43	1.44	5.63	-1.26	-3.96	-2.50	0.87	2.64	-24.49	-7.44	-3.06
		9.84	1.54	7.25	-1.14	-4.83	-2.94	0.99	3.11	-24.51	-9.45	-3.34
		9.84	1.22	7.10	-0.94	-4.74	-3.35	0.64	3.41	-24.84	-9.30	-3.14
		9.41	1.28	8.44	-1.36	-5.42	-3.74	0.74	3.81	-23.94	-10.84	-3.76
		9.41	1.62	8.59	-1.59	-5.52	-3.31	1.12	3.49	-23.65	-11.00	-4.01
		8.82	1.72	10.69	-1.36	-6.52	-3.87	1.22	4.05	-23.62	-13.54	-4.21
		8.82	1.36	10.55	-1.14	-6.40	-4.33	0.82	4.40	-23.80	-13.37	-3.97
		8.38	1.42	12.29	-1.61	-7.17	-4.82	0.93	4.90	-22.94	-15.33	-4.65

36	2	6.36	1.79	12.43	-1.86	-7.30	-4.31	1.37	4.53	-22.80	15.56	-4.93
36	3	7.79	1.90	15.13	-1.48	-8.40	-5.01	1.45	5.22	-22.67	19.64	-4.99
36	4	7.79	1.51	15.02	-1.26	-8.25	-5.53	0.99	5.62	-22.69	18.47	-4.71
37	1	7.46	1.57	17.27	-1.76	-9.07	-6.12	1.11	6.22	-21.82	20.90	-5.39
37	2	7.36	1.97	17.35	-1.99	-9.24	-5.57	1.59	5.79	-21.85	21.05	-5.70
37	3	6.77	2.08	20.79	-1.40	-10.39	-6.44	1.62	6.64	-21.56	24.89	-5.50
37	4	6.77	1.65	20.77	-1.22	-10.18	-7.02	1.14	7.11	-21.40	24.76	-5.21
38	1	6.34	1.71	23.64	-1.71	-11.00	-7.75	1.26	7.85	-20.48	27.75	-5.82
38	2	6.34	2.15	23.60	-1.87	-11.22	-7.14	1.74	7.35	-20.69	27.84	-6.10
38	3	5.75	2.26	27.96	-1.00	-12.30	-8.24	1.68	8.41	-20.18	32.48	-5.52
38	4	5.75	1.79	28.09	-0.92	-12.08	-8.88	1.27	8.97	-19.89	32.46	-5.29
39	1	5.32	1.95	31.75	-1.34	-12.80	-9.82	1.33	9.91	-18.87	36.13	-5.71
39	2	5.32	2.33	31.50	-1.37	-13.08	-9.14	1.75	9.30	-19.25	36.07	-5.93
39	3	4.73	2.44	37.00	-0.18	-14.07	-10.56	1.60	10.68	-18.56	41.72	-4.90
39	4	4.73	1.93	37.48	-0.21	-13.63	-11.27	1.24	11.34	-17.94	41.89	-4.62
40	1	4.30	1.99	42.15	-0.49	-14.25	-12.47	1.30	12.53	-16.88	46.47	-4.81
40	2	4.30	2.51	41.54	-0.33	-14.58	-11.73	1.49	11.82	-17.42	46.12	-4.91
40	3	3.71	2.62	48.70	1.35	-14.90	-13.58	1.01	13.62	-16.10	53.06	-2.95
40	4	3.71	2.07	49.36	1.00	-15.06	-14.37	1.16	14.41	-15.96	53.66	-3.31
41	1	3.38	2.13	55.47	0.96	-15.08	-15.98	1.01	16.02	-14.48	59.36	-2.93
41	2	3.29	2.69	54.35	1.36	-15.42	-15.12	0.78	15.14	-15.10	58.51	-2.80
41	3	2.69	2.79	63.02	3.25	-16.35	-17.49	0.11	17.49	-14.34	67.20	-0.93
41	4	2.69	2.22	65.57	3.20	-13.87	-18.71	0.10	18.71	-11.99	69.52	0.26
42	1	2.26	2.28	73.05	3.37	-14.59	-20.85	-0.22	20.85	-11.36	75.08	0.44
42	2	2.26	2.87	71.27	3.85	-14.92	-19.68	-1.14	19.71	-11.94	74.43	0.89
42	3	1.67	2.97	84.84	6.88	-9.36	-23.06	-4.59	23.51	-6.75	85.95	3.79
42	4	1.67	2.36	84.09	5.33	-17.55	-24.13	-0.83	24.14	-12.01	87.82	1.60
43	1	15.83	0.62	-0.01	-0.10	-0.08	-0.05	0.19	0.20	-30.05	0.04	-0.14
43	2	15.83	0.73	0.00	-0.11	-0.08	-0.05	0.25	0.25	-28.38	0.04	-0.16
43	3	14.94	0.87	0.08	-0.14	-0.25	-0.17	0.19	0.26	-33.01	0.25	-0.31
43	4	14.94	0.74	0.06	-0.13	-0.25	-0.20	0.13	0.24	-34.71	0.23	-0.31
44	1	14.51	0.83	0.18	-0.21	-0.38	-0.36	0.21	0.42	-31.55	0.42	-0.44
44	2	14.51	0.98	0.22	-0.23	-0.38	-0.34	0.29	0.45	-29.73	0.44	-0.44
44	3	13.92	1.18	0.57	-0.27	-0.64	-0.52	0.42	0.67	-28.41	0.92	-0.62
44	4	13.93	0.95	0.51	-0.25	-0.65	-0.58	0.32	0.66	-29.95	0.88	-0.62
45	1	13.49	1.03	0.82	-0.40	-0.89	-0.73	0.40	0.83	-27.80	1.29	-0.87
45	2	13.49	1.22	0.90	-0.44	-0.88	-0.67	0.52	0.84	-26.44	1.34	-0.87
45	3	12.90	1.36	1.50	-0.47	-1.28	-0.91	0.66	1.12	-26.24	2.13	-1.10
45	4	12.90	1.15	1.40	-0.44	-1.30	-0.99	0.51	1.11	-27.39	2.07	-1.11
46	1	12.47	1.24	1.91	-0.67	-1.65	-1.16	0.59	1.31	-25.97	2.72	-1.47
46	2	12.47	1.46	2.03	-0.72	-1.63	-1.08	0.78	1.33	-24.98	2.79	-1.48
46	3	11.88	1.60	2.93	-0.72	-2.18	-1.38	0.92	1.66	-25.05	3.95	-1.74
46	4	11.89	1.36	2.78	-0.68	-2.21	-1.47	0.72	1.64	-25.95	3.86	-1.75
47	1	11.45	1.45	3.53	-1.00	-2.67	-1.70	0.84	1.90	-24.85	4.76	-2.23
47	2	11.45	1.71	3.69	-1.06	-2.64	-1.60	1.08	1.93	-24.03	4.87	-2.24
47	3	10.86	1.85	4.93	-1.00	-3.35	-1.95	1.22	2.30	-24.25	6.44	-2.51
47	4	10.86	1.57	4.74	-0.95	-3.38	-2.06	0.97	2.28	-24.95	6.32	-2.53
48	1	10.43	1.65	5.76	-1.36	-3.96	-2.35	1.12	2.61	-24.03	7.53	-3.12
48	2	10.43	1.95	5.97	-1.42	-3.93	-2.23	1.41	2.64	-23.40	7.67	-3.12
48	3	9.84	2.09	7.61	-1.27	-4.80	-2.66	1.55	3.08	-23.61	9.71	-3.37
48	4	9.84	1.77	7.39	-1.23	-4.83	-2.80	1.23	3.06	-24.14	9.56	-3.39
49	1	9.41	1.86	8.73	-1.70	-5.52	-3.15	1.40	3.45	-23.31	11.11	-4.08
49	2	9.41	2.19	8.97	-1.74	-5.49	-3.01	1.75	3.48	-22.86	11.29	-4.06
49	3	8.82	2.34	11.09	-1.47	-6.51	-3.54	1.88	4.01	-23.02	13.85	-4.23
49	4	8.82	1.98	10.84	-1.45	-6.53	-3.70	1.52	4.00	-23.37	13.67	-4.27
50	1	8.38	2.07	12.58	-1.96	-7.31	-4.15	1.69	4.48	-22.59	15.62	-5.00
50	2	8.38	2.44	12.82	-1.97	-7.30	-3.96	2.07	4.47	-22.31	15.82	-4.96
50	3	7.79	2.58	15.50	-1.52	-8.43	-4.61	2.17	5.10	-22.36	18.96	-4.99



50	4	7.70	2.19	15.27	-1.55	-8.43	-4.81	1.78	5.13	-22.54	18.[illegible]	-5.09
51	1	7.39	2.27	17.46	-2.06	-9.27	-5.37	1.92	5.71	-21.77	21.17	-5.76
51	2	7.36	2.68	17.67	-2.01	-9.29	-5.14	2.32	5.65	-21.47	21.36	-5.70
51	3	6.77	2.62	21.08	-1.34	-10.47	-5.95	2.34	6.39	-21.57	25.16	-5.43
51	4	6.[illegible]7	2.39	20.87	-1.43	-10.43	-6.21	1.95	6.41	-21.55	24.99	-5.55
52	1	6.34	2.48	23.64	-1.88	-11.28	-6.90	2.06	7.20	-20.75	27.91	-6.15
52	2	6.24	2.93	23.74	-1.75	-11.34	-6.62	2.44	7.05	-20.84	28.05	-6.07
52	3	5.72	3.07	27.90	-0.81	-12.48	-7.62	2.30	7.96	-20.50	32.56	-5.46
52	4	5.[illegible]5	2.80	27.89	-0.98	-12.42	-7.96	1.99	8.21	-20.36	32.53	-5.89
53	1	5.32	2.69	31.38	-1.30	-13.18	-8.85	2.00	9.07	-19.45	36.04	-5.95
53	2	5.32	3.17	31.25	-1.10	-13.30	-8.45	2.29	8.75	-19.78	36.03	-5.56
53	3	4.77	3.21	36.39	0.13	-14.35	-9.72	1.94	9.91	-19.19	41.38	-4.67
53	4	4.73	2.81	36.79	-0.04	-14.07	-10.22	1.72	10.96	-18.69	41.55	-4.[illegible]
54	1	4.30	2.89	41.13	-0.18	-14.74	-11.33	1.61	11.44	-17.75	45.95	-4.90
54	2	4.30	3.41	40.63	0.04	-14.92	-10.77	1.70	10.90	-18.17	45.53	-4.95
54	3	3.77	3.55	47.84	1.65	-15.31	-12.39	0.89	12.42	-16.95	51.90	-3.[illegible]
54	4	3.[illegible]	3.01	47.81	1.38	-15.60	-13.07	1.11	13.12	-16.95	52.[illegible]	-3.37
55	1	3.34	3.10	53.60	1.54	-15.60	-14.57	0.59	14.58	-15.47	57.92	-[illegible].[illegible]
55	2	3.34	3.36	52.32	1.69	-15.79	-13.67	0.36	13.67	-15.98	56.84	-3.[illegible]
55	3	2.89	3.20	59.88	3.42	-16.57	-15.52	-0.81	15.54	-15.20	64.38	-1.08
55	4	2.[illegible]	3.22	62.81	3.73	-14.52	-16.92	-0.86	16.94	-13.09	66.19	0.[illegible]
56	1	2.[illegible]	3.31	69.18	3.98	-15.04	-18.58	-1.73	18.66	-12.38	73.48	0.[illegible]
56	2	2.[illegible]	3.90	67.19	3.73	-15.29	-17.17	-2.33	17.32	-12.86	70.60	0.[illegible]
56	3	1.67	4.04	79.18	6.09	-10.27	-19.66	-5.87	20.52	-7.85	80.60	4.[illegible]
56	4	1.[illegible]	3.42	78.41	6.06	-17.17	-20.92	-3.29	21.18	-12.70	82.[illegible]	2.[illegible]
57	1	15.[illegible]	0.82	0.00	-0.12	-0.08	-0.06	0.32	0.32	-27.47	0.64	-0.[illegible]
57	2	15.[illegible]	0.92	0.01	-0.12	-0.08	-0.07	0.35	0.36	-28.91	0.65	-[illegible].[illegible]
57	3	14.[illegible]	1.10	0.13	-0.14	-0.25	-0.17	0.27	0.32	-30.52	0.27	-[illegible].[illegible]
57	4	14.[illegible]	0.97	0.10	-0.15	-0.25	-0.17	0.22	0.28	-31.94	0.[illegible]	-[illegible].[illegible]
58	1	14.[illegible]	1.19	0.26	-0.23	-0.37	-0.33	0.36	0.49	-28.36	0.[illegible]	-[illegible].[illegible]
58	2	14.[illegible]	1.33	0.30	-0.23	-0.36	-0.32	0.41	0.52	-26.59	0.[illegible]	-[illegible].[illegible]
58	3	13.83	1.41	0.69	-0.28	-0.61	-0.49	0.57	0.75	-25.74	[illegible]	-[illegible].[illegible]
58	4	13.[illegible]	1.34	0.62	-0.28	-0.63	-0.51	0.47	0.69	-27.[illegible]	[illegible]	-[illegible].[illegible]
59	1	13.41	1.36	0.96	-0.45	-0.87	-0.65	0.59	0.38	-25.42	[illegible]	-[illegible].[illegible]
59	2	13.41	1.84	1.05	-0.45	-0.84	-0.64	0.70	0.95	-24.[illegible]	[illegible]	-[illegible].[illegible]
59	3	12.[illegible]	1.72	1.70	-0.47	-1.23	-0.85	0.88	1.23	-24.23	[illegible]	-[illegible].[illegible]
59	4	12.41	1.51	1.58	-0.48	-1.26	-0.88	0.75	1.16	-25.38	[illegible]	-[illegible].[illegible]
60	1	12.47	1.83	2.13	-0.73	-1.60	-1.06	0.89	1.38	-24.14	[illegible]	-[illegible].[illegible]
60	2	12.[illegible]	1.85	2.27	-0.72	-1.56	-1.04	1.09	1.47	-23.14	[illegible]	-[illegible].[illegible]
60	3	11.80	2.03	3.91	-0.71	-2.10	-1.31	1.21	1.78	-23.49	[illegible]	-[illegible].[illegible]
60	4	11.[illegible]	1.78	3.04	-0.73	-2.15	-1.33	1.06	1.70	-24.07	[illegible]	-[illegible].[illegible]
61	1	11.45	1.90	3.82	-1.07	-2.61	-1.56	1.22	1.98	-23.43	[illegible]	-[illegible].[illegible]
61	2	11.[illegible]	2.16	4.02	-1.03	-2.55	-1.53	1.42	2.09	-22.65	[illegible]	-[illegible].[illegible]
61	3	10.86	2.34	5.31	-0.95	-3.25	-1.87	1.61	2.47	-23.05	[illegible]	-[illegible].[illegible]
61	4	10.[illegible]	2.05	5.08	-1.00	-3.31	-1.90	1.40	2.36	-23.[illegible]	[illegible]	-[illegible].[illegible]
62	1	10.43	2.17	6.14	-1.41	-3.89	-2.19	1.60	2.71	-22.94	7.78	-3.00
62	2	10.[illegible]	2.47	6.39	-1.34	-3.82	-2.14	1.84	2.82	-22.35	7.96	-2.91
62	3	9.94	2.64	8.08	-1.15	-4.69	-2.54	2.02	3.25	-22.73	10.05	-3.11
62	4	9.84	2.33	7.80	-1.25	-4.76	-2.60	1.76	3.14	-23.23	9.84	-3.29
63	1	9.41	2.44	9.17	-1.71	-5.45	-2.95	1.98	3.55	-22.54	11.43	-3.97
63	2	9.41	2.77	9.47	-1.58	-5.38	-2.89	2.25	3.66	-22.12	11.60	-3.77
63	3	8.82	2.95	11.62	-1.26	-6.40	-3.37	2.40	4.14	-22.43	14.26	-3.90
63	4	8.82	2.60	11.30	-1.41	-6.47	-3.46	2.11	4.06	-22.76	14.01	-4.13
64	1	8.38	2.71	13.04	-1.89	-7.27	-3.88	2.34	4.53	-22.12	15.99	-4.85
64	2	8.38	3.08	13.36	-1.70	-7.21	-3.77	2.64	4.60	-21.87	16.25	-4.59
64	3	7.79	3.26	16.03	-1.21	-8.36	-4.38	2.70	5.15	-22.07	19.41	-4.59
64	4	7.79	2.87	15.70	-1.43	-8.41	-4.51	2.42	5.12	-22.23	19.14	-4.86
65	1	7.36	2.98	17.87	-1.88	-9.27	-5.01	2.60	5.65	-21.60	21.54	-5.55

		7.36	3.39	18.17	-1.61	-9.24	-4.85	3.90	5.65	-21.52	31.91	-5.26
		6.77	3.57	21.43	-0.91	-10.47	-5.59	2.86	6.28	-21.57	35.57	-5.02
		6.77	3.14	21.18	-1.20	-10.47	-5.80	2.57	6.35	-21.56	35.31	-5.01
		6.34	3.25	22.85	-1.57	-11.27	-6.43	2.68	6.96	-20.90	38.[illegible]	-5.[illegible]
		6.34	3.70	24.09	-1.25	-11.37	-6.16	2.94	6.83	-20.98	39.[illegible]	-5.01
		5.95	3.38	25.01	-0.92	-12.57	-7.04	2.78	7.45	-20.79	42.[illegible]	-5.[illegible]
		5.75	3.41	27.91	-0.64	-12.56	-7.39	2.50	7.80	-20.67	42.64	-5.33
		5.62	3.52	31.20	-0.89	-13.37	-8.17	2.46	8.52	-19.90	46.04	-5.72
		5.22	4.01	31.17	-0.56	-13.43	-7.75	2.63	8.19	-20.13	46.08	-5.41
		4.72	4.18	35.91	0.57	-14.52	-8.90	2.12	9.05	-19.70	51.11	-4.[illegible]
		4.73	3.68	36.26	0.33	-14.32	-9.36	2.01	9.57	-19.39	51.27	-4.[illegible]
		4.37	3.79	40.25	0.22	-15.02	-10.33	1.72	10.47	-19.45	55.26	-4.[illegible]
		4.30	4.31	39.79	0.44	-15.12	-9.66	1.76	9.82	-19.77	54.92	-4.[illegible]
		3.91	4.49	45.73	1.78	-15.54	-10.93	0.75	10.96	-17.64	60.67	-3.[illegible]
		3.7[illegible]	4.[illegible]	46.30	1.64	-15.87	-11.76	0.53	11.80	-17.70	61.30	-3.[illegible]
		3.28	4.06	51.50	1.69	-15.93	-12.96	0.19	12.97	-16.40	66.[illegible]	-3.[illegible]
		3.28	4.62	50.18	1.63	-15.97	-11.88	0.02	11.88	-16.67	64.66	-3.[illegible]
		2.69	4.50	56.56	2.87	-16.54	-13.20	-1.40	13.97	-15.82	69.[illegible]	-[illegible]
		2.61	4.22	59.67	3.47	-14.96	-14.76	-1.50	14.83	-14.02	69.41	-[illegible]
		2.28	4.33	65.08	3.42	-15.25	-15.95	-2.69	16.17	-13.16	69.[illegible]	-[illegible]
		2.28	4.93	62.83	2.74	-15.30	-14.38	-3.03	14.69	-13.49	66.81	-[illegible]
		[illegible]	5.11	73.08	4.37	-10.69	-16.06	-6.42	17.30	-9.65	74.[illegible]	-[illegible]
		[illegible]	4.48	72.17	4.91	-16.75	-17.47	-4.69	18.09	-13.24	76.[illegible]	-[illegible]
		[illegible]	[illegible]	0.01	-0.12	-0.08	-0.07	0.41	0.42	-28.63	[illegible]	-[illegible]
		[illegible]	1.12	0.01	-0.11	-0.08	-0.07	0.46	0.46	-26.61	[illegible]	-[illegible]
		[illegible]	1.34	0.18	-0.12	-0.22	-0.22	0.35	0.41	-28.06	[illegible]	-[illegible]
		[illegible]	[illegible]	0.15	-0.14	-0.24	-0.19	0.31	0.36	-29.52	[illegible]	-[illegible]
		[illegible]	1.34	0.34	-0.23	-0.35	-0.32	0.49	0.59	-25.26	[illegible]	-[illegible]
		[illegible]	[illegible]	0.39	-0.21	-0.32	-0.33	0.54	0.62	-23.52	[illegible]	-[illegible]
		[illegible]	[illegible]	0.82	-0.25	-0.56	-0.51	0.69	0.96	-23.36	[illegible]	-[illegible]
		[illegible]	1.74	0.74	-0.27	-0.59	-0.49	0.63	0.80	-24.65	[illegible]	-[illegible]
		[illegible]	[illegible]	1.12	-0.43	-0.82	-0.64	0.77	1.00	-23.16	[illegible]	-[illegible]
		[illegible]	1.86	1.22	-0.40	-0.78	-0.66	0.66	1.03	-21.88	[illegible]	-[illegible]
		[illegible]	2.10	1.92	-0.40	-1.15	-0.98	1.04	1.[illegible]	-22.38	[illegible]	-[illegible]
		[illegible]	1.87	1.79	-0.45	-1.20	-0.86	0.94	1.29	-20.47	[illegible]	-[illegible]
		[illegible]	[illegible]	2.38	-0.69	-1.53	-1.03	1.14	1.54	-22.02	[illegible]	-[illegible]
		[illegible]	2.24	2.53	-0.63	-1.47	-1.05	1.25	1.63	-21.58	[illegible]	-[illegible]
		[illegible]	2.45	3.54	-0.58	-2.00	-1.32	1.45	1.90	-22.06	[illegible]	-[illegible]
		[illegible]	2.21	3.35	-0.66	-2.06	-1.30	1.33	1.86	-22.37	[illegible]	-[illegible]
		[illegible]	2.25	4.17	-0.98	-2.50	-1.52	1.54	2.17	-22.11	[illegible]	-[illegible]
		[illegible]	2.31	4.39	-0.86	-2.43	-1.53	1.70	2.29	-21.42	[illegible]	-[illegible]
		10.51	2.82	5.75	-0.74	-3.12	-1.86	1.90	2.66	-21.96	[illegible]	-[illegible]
		10.63	2.84	5.49	-0.88	-3.20	-1.86	1.73	2.54	-22.57	[illegible]	-[illegible]
		10.43	2.68	6.59	-1.24	-3.77	-2.13	1.98	2.91	-21.95	[illegible]	-[illegible]
		10.43	2.98	6.87	-1.07	-3.69	-2.12	2.16	3.03	-21.44	[illegible]	-[illegible]
		[illegible]	3.20	8.63	-0.84	-4.54	-2.51	2.35	3.44	-21.93	[illegible]	-[illegible]
		[illegible]	2.98	8.30	-1.04	-4.63	-2.52	2.16	3.32	-22.36	[illegible]	-[illegible]
		[illegible]	3.02	9.71	-1.44	-5.32	-2.85	2.43	3.75	-21.84	[illegible]	-[illegible]
		[illegible]	3.35	10.06	-1.18	-5.24	-2.82	2.63	3.86	-21.49	[illegible]	-[illegible]
		[illegible]	3.57	12.24	-0.81	-6.26	-3.29	2.77	4.20	-21.90	[illegible]	-[illegible]
		[illegible]	3.21	11.87	-1.10	-6.35	-3.33	2.58	4.21	-22.20	[illegible]	-[illegible]
		[illegible]	3.35	13.62	-1.50	-7.15	-3.71	2.82	4.67	-21.71	[illegible]	-[illegible]
		[illegible]	3.73	14.01	-1.16	-7.07	-3.64	3.03	4.74	-21.50	[illegible]	-[illegible]
		7.79	3.94	16.68	-0.63	-8.24	-4.18	3.10	5.20	-21.80	[illegible]	-[illegible]
		7.79	3.55	16.29	-0.99	-8.31	-4.29	2.88	5.17	-21.96	[illegible]	-[illegible]
		7.36	3.69	18.42	-1.35	-9.20	-4.75	3.09	5.66	-21.47	[illegible]	-[illegible]
		7.36	4.10	18.80	-0.93	-9.14	-4.60	3.28	5.65	-21.40	[illegible]	-[illegible]
		6.77	4.31	21.98	-0.24	-10.40	-5.21	3.20	6.12	-21.55	[illegible]	-[illegible]

79	4	6.77	3.89	21.66	-0.65	-10.44	-5.42	3.03	6.21	-21.56	32.78	-4.77
80	1	6.34	4.02	24.23	-0.95	-11.36	-5.97	3.10	6.73	-21.04	35.60	-5.32
80	2	6.34	4.47	24.51	-0.50	-11.33	-5.70	3.28	6.68	-21.02	35.65	-4.87
80	3	5.75	4.69	26.27	0.35	-12.55	-6.41	2.97	7.06	-20.95	33.19	-4.41
80	4	5.75	4.22	26.08	-0.06	-12.60	-6.79	3.53	7.45	-20.92	33.91	-4.87
81	1	5.32	4.36	31.17	-0.28	-13.45	-7.42	3.74	7.91	-20.37	36.14	-5.64
81	2	5.08	4.94	31.20	0.13	-13.43	-6.96	2.97	7.51	-20.42	36.50	-4.87
81	3	4.72	5.06	35.52	1.06	-14.51	-7.75	2.81	8.06	-20.06	40.82	-4.84
81	4	4.73	4.55	35.83	0.80	-14.44	-8.38	2.16	8.85	-19.75	41.07	-4.79
82	1	4.30	4.69	39.44	0.60	-15.14	-9.13	1.70	9.29	-18.97	44.64	-4.66
82	2	4.30	5.21	38.99	0.82	-15.11	-8.36	1.76	8.45	-19.19	44.25	-4.44
82	3	3.74	5.43	44.17	1.79	-15.49	-9.26	0.64	9.28	-18.09	49.22	-3.87
82	4	3.71	4.99	44.76	1.72	-15.93	-10.20	0.79	10.22	-18.26	50.01	-3.64
83	1	3.28	5.03	49.30	1.51	-15.97	-11.07	-0.09	11.07	-16.88	54.14	-3.23
83	2	3.29	5.59	47.92	1.35	-15.81	-9.89	-0.21	9.90	-17.08	52.79	-3.61
83	3	2.69	5.30	53.09	2.04	-16.09	-10.72	-1.76	10.87	-16.12	57.74	-2.61
83	4	2.65	5.22	56.33	2.75	-15.01	-12.33	-1.98	12.47	-14.63	60.78	-1.97
84	1	2.26	5.36	60.66	2.20	-15.06	-13.08	-3.22	13.47	-13.63	64.21	-1.48
84	2	2.21	5.06	58.26	1.34.	-14.83	-11.48	-3.34	11.95	-13.76	61.59	-2.39
84	3	1.67	6.17	66.77	2.14	-10.57	-12.49	-6.37	14.02	-9.06	68.41	-1.48
84	4	1.67	5.56	65.81	2.93	-15.97	-13.89	-5.37	14.89	-13.46	69.87	-0.88
85	1	15.37	1.20	0.01	-0.10	-0.08	-0.07	0.47	0.47	-26.70	0.03	-0.02
85	2	15.52	1.21	0.02	-0.08	-0.07	-0.08	0.48	0.48	-26.73	0.05	-0.01
85	3	14.94	1.37	0.23	-0.09	-0.20	-0.29	0.40	0.49	-25.41	0.33	-0.11
85	4	14.94	1.42	0.20	-0.11	-0.21	-0.24	0.37	0.44	-26.98	0.27	-0.14
86	1	14.51	1.10	0.43	-0.20	-0.31	-0.34	0.58	0.67	-22.28	1.24	-0.72
86	2	14.51	1.15	0.48	-0.17	-0.29	-0.38	0.61	0.72	-20.78	1.61	-0.67
86	3	13.38	2.10	0.96	-0.18	-0.52	-0.59	0.78	0.98	21.12	4.71	-0.11
86	4	13.91	1.77	0.88	-0.22	-0.54	-0.53	0.73	0.91	-22.28	4.14	-0.14
87	1	13.47	2.10	1.29	-0.36	-0.76	-0.67	0.91	1.13	-21.17	4.21	-0.14
87	2	13.49	2.19	1.39	-0.30	-0.72	-0.73	0.98	1.22	-20.54	4.18	-0.12
87	3	12.77	2.44	2.15	-0.28	-1.08	-0.96	1.19	1.53	-20.93	8.58	-0.17
87	4	12.91	2.82	2.02	-0.36	-1.12	-0.90	1.10	1.48	-21.87	8.10	-0.14
88	1	12.47	2.49	2.65	-0.56	-1.43	-1.08	1.38	1.71	-20.98	9.19	-0.14
88	2	12.47	2.82	2.80	-0.45	-1.39	-1.14	1.41	1.82	-20.43	9.07	-0.11
88	3	11.88	2.88	3.87	-0.37	-1.89	-1.41	1.62	2.16	-20.37	9.81	-0.11
88	4	11.88	2.82	3.68	-0.50	-1.95	-1.34	1.54	2.04	-21.41	9.45	-0.14
89	1	11.45	2.90	4.55	-0.76	-2.38	-1.56	1.79	2.37	-20.95	11.10	-0.17
89	2	11.45	3.06	4.78	-0.58	-2.32	-1.64	1.90	2.51	-20.43	11.34	-0.14
89	3	10.88	3.31	6.21	-0.41	-2.99	-1.95	2.12	2.88	-21.05	13.03	-0.11
89	4	10.86	3.03	5.94	-0.61	-3.06	-1.88	2.00	2.74	-21.54	12.98	-0.14
90	1	10.43	3.20	7.09	-0.91	-3.62	-2.14	2.27	3.12	-21.10	14.49	-0.17
90	2	10.43	3.50	7.39	-0.65	-3.54	-2.20	2.39	3.25	-20.71	14.73	-0.14
90	3	9.84	3.75	9.21	-0.37	-4.39	-2.59	2.60	3.67	-21.27	16.32	-0.08
90	4	9.84	3.43	8.87	-0.65	-4.48	-2.53	2.46	3.53	-21.62	16.65	-0.42
91	1	9.41	3.60	10.32	-0.96	-5.17	-2.83	2.75	3.94	-21.25	18.33	-0.97
91	2	9.41	3.93	10.69	-0.60	-5.08	-2.87	2.99	4.07	-20.99	18.84	-0.55
91	3	8.82	4.18	12.93	-0.20	-6.11	-3.29	3.04	4.47	-21.47	15.33	-0.60
91	4	8.82	3.83	12.53	-0.57	-6.19	-3.26	2.90	4.36	-21.70	15.90	-0.64
92	1	8.38	4.00	14.31	-0.86	-7.01	-3.62	3.16	4.81	-21.36	17.05	-0.60
92	2	8.38	4.37	14.73	-0.42	-6.92	-3.63	3.31	4.91	-21.21	17.41	-0.10
92	3	7.79	4.62	17.41	0.12	-8.10	-4.08	3.36	5.38	-21.57	20.61	-0.08
92	4	7.79	4.23	16.98	-0.33	-8.18	-4.12	3.28	5.23	-21.70	20.22	-0.58
93	1	7.36	4.40	19.10	-0.59	-9.08	-4.50	3.41	5.65	-21.35	22.65	-4.14
93	2	7.36	4.81	19.52	-0.07	-9.00	-4.42	3.55	5.67	-21.30	23.02	-3.58
93	3	6.77	5.06	22.63	0.59	-10.27	-4.92	3.45	6.00	-21.50	26.67	-3.46
93	4	6.77	4.63	22.26	0.09	-10.34	-5.07	3.32	6.06	-21.51	26.33	-3.98
94	1	6.34	4.80	24.74	-0.13	-11.28	-5.51	3.38	6.47	-21.11	29.09	-4.49

94	2	6.34	5.24	25.06	0.41	-11.21	-5.28	3.50	6.33	-21.14	29.31	-3.93
94	3	5.75	5.49	28.59	1.13	-12.43	-5.79	3.15	6.50	-21.08	33.21	-3.16
94	4	5.75	5.03	28.38	0.66	-12.53	-6.13	3.05	6.34	-21.06	33.21	-4.17
95	1	5.38	5.20	31.24	0.44	-13.39	-6.61	2.90	7.72	-20.50	36.25	-4.57
95	2	5.32	5.68	31.29	0.90	-13.30	-6.17	2.98	6.95	-20.60	36.29	-4.19
95	3	4.73	5.93	35.14	1.60	-14.33	-6.65	2.28	7.03	-20.25	40.43	-3.19
95	4	4.73	5.43	35.45	1.29	-14.37	-7.29	2.23	7.62	-20.04	40.69	-3.91
96	1	4.30	5.59	38.64	0.98	-15.03	-7.79	1.74	7.99	-19.30	43.90	-4.26
96	2	4.30	6.11	38.16	1.22	-14.87	-7.03	1.78	7.25	-19.42	43.40	-4.12
96	3	3.71	6.37	42.51	1.79	-15.14	-7.53	0.58	7.55	-18.32	47.52	-3.22
96	4	3.71	5.83	43.17	1.72	-15.69	-8.48	0.68	8.50	-18.57	48.44	-3.55
97	1	3.29	5.99	46.98	1.19	-15.64	-9.03	-0.29	9.04	-17.17	51.92	-2.64
97	2	3.28	6.55	45.49	1.04	-15.27	-7.85	-0.35	7.86	-17.24	50.23	-3.76
97	3	2.69	6.60	49.43	1.18	-15.18	-8.31	-1.99	8.54	-16.09	53.80	-3.20
97	4	2.69	6.22	52.78	1.81	-14.60	-9.83	-2.06	10.04	-14.90	56.67	-2.98
98	1	2.26	6.39	56.09	0.75	-14.36	-10.25	-3.41	10.80	-13.71	59.60	-2.75
98	2	2.26	6.99	53.49	-0.06	-13.77	-8.79	-3.47	9.45	-13.61	56.58	-3.40
98	3	1.67	7.24	60.42	-0.16	-9.62	-9.35	-6.01	11.12	-8.81	61.91	-1.86
98	4	1.67	6.62	59.61	0.76	-14.60	-10.57	-5.49	11.90	-13.20	63.03	-2.13
99	1	15.82	1.40	0.02	-0.07	-0.06	-0.09	0.45	0.46	-26.28	0.05	-0.14
99	2	15.82	1.51	0.03	-0.05	-0.05	-0.14	0.45	0.47	-26.06	0.08	-0.17
99	3	14.94	1.80	0.29	-0.04	-0.17	-0.37	0.46	0.58	-23.02	0.40	-0.11
99	4	14.94	1.66	0.26	-0.07	-0.18	-0.32	0.42	0.53	-24.85	0.34	-0.15
100	1	14.51	1.86	0.52	-0.14	-0.27	-0.43	0.63	0.77	-19.85	0.62	-0.24
100	2	14.51	2.01	0.57	-0.10	-0.26	-0.54	0.67	0.86	-19.11	0.69	-0.[illegible]
100	3	12.98	2.30	1.08	-0.08	-0.49	-0.75	0.89	1.16	-19.99	1.22	-0.[illegible]
100	4	12.98	2.13	1.01	-0.14	-0.50	-0.64	0.84	1.06	-20.48	1.20	-0.[illegible]
101	1	13.49	2.32	1.46	-0.25	-0.70	-0.80	1.02	1.29	-19.69	1.71	-0.[illegible]
101	2	13.49	2.51	1.55	-0.15	-0.68	-0.93	1.09	1.44	-19.41	1.71	-0.[illegible]
101	3	12.90	2.60	2.35	-0.09	-1.03	-1.19	1.32	1.78	-20.05	2.[illegible]	-0.[illegible]
101	4	12.90	2.59	2.24	-0.21	-1.05	-1.04	1.24	1.62	-20.34	2.03	-0.[illegible]
102	1	11.47	2.79	2.91	-0.35	-1.35	-1.22	1.47	1.92	-19.84	2.41	-0.[illegible]
102	2	11.47	3.01	3.04	-0.19	-1.33	-1.40	1.58	2.11	-19.68	2.58	-0.[illegible]
102	3	11.81	3.30	4.18	-0.07	-1.82	-1.70	1.81	2.46	-20.31	4.35	-0.[illegible]
102	4	11.81	3.05	4.01	-0.25	-1.85	-1.50	1.70	2.27	-20.50	4.71	-0.[illegible]
103	1	11.45	3.25	4.94	-0.43	-2.27	-1.72	1.98	2.66	-20.13	5.77	-0.[illegible]
103	2	11.45	3.51	5.13	-0.18	-2.24	-1.95	2.09	2.56	-20.07	5.35	-0.[illegible]
103	3	10.84	3.80	6.62	0.03	-2.90	-2.29	2.38	3.26	-20.67	7.72	-0.[illegible]
103	4	10.84	3.58	6.40	-0.24	-2.94	-2.04	2.19	3.03	-20.77	7.51	-0.[illegible]
104	1	10.43	3.71	7.60	-0.43	-3.49	-2.31	2.49	3.09	-20.60	8.91	-1.02
104	2	10.43	4.01	7.86	-0.08	-3.45	-2.56	2.63	3.66	-20.50	9.19	-1.37
104	3	9.84	4.30	9.75	0.24	-4.29	-2.93	2.83	4.07	-21.04	11.41	-1.47
104	4	9.84	3.98	9.46	-0.13	-4.34	-2.67	2.70	3.79	-21.07	11.13	-1.50
105	1	9.41	4.18	10.96	-0.32	-5.02	-2.95	2.99	4.30	-20.85	12.97	-2.67
105	2	9.41	4.51	11.28	0.14	-4.98	-3.21	3.14	4.49	-20.91	13.19	-1.76
105	3	8.82	4.80	13.57	0.58	-6.01	-3.61	3.29	4.88	-21.37	15.92	-1.77
105	4	8.82	4.45	13.22	0.10	-6.05	-3.36	3.13	4.59	-21.34	15.56	-2.16
106	1	8.38	4.64	15.03	-0.06	-6.86	-3.67	3.40	5.00	-21.14	17.68	-2.71
106	2	8.38	5.01	15.40	0.50	-6.82	-3.90	3.57	5.29	-21.25	18.05	-2.15
106	3	7.79	5.30	18.08	1.04	-8.00	-4.30	3.62	5.62	-21.60	21.25	-2.12
106	4	7.79	4.91	17.71	0.48	-8.04	-4.10	3.44	5.35	-21.51	20.88	-2.68
107	1	7.36	5.10	19.82	0.34	-8.94	-4.42	3.64	5.73	-21.28	23.30	-3.14
107	2	7.36	5.51	20.18	0.98	-8.90	-4.59	3.82	5.97	-21.43	23.67	-2.51
107	3	6.77	5.80	23.21	1.58	-10.16	-4.95	3.70	6.18	-21.62	27.24	-2.44
107	4	6.77	5.37	22.91	0.98	-10.21	-4.85	3.53	6.00	-21.48	26.92	-3.04
108	1	6.34	5.57	25.29	0.83	-11.14	-5.17	3.58	6.29	-21.17	29.61	-3.49
108	2	6.34	6.01	25.54	1.49	-11.09	-5.20	3.78	6.43	-21.35	29.87	-2.85
108	3	5.75	6.30	28.83	2.09	-12.28	-5.50	3.41	6.47	-21.29	33.61	-2.70

108	4	5.75	5.84	28.70	1.49	-12.38	-5.58	3.23	6.45	-21.15	33.49	-3.30
109	1	5.32	6.03	31.33	1.26	-13.21	-5.87	3.05	6.61	-20.66	36.31	-3.72
109	2	5.32	6.51	31.27	1.87	-13.11	-5.67	3.25	6.54	-20.86	36.27	-3.13
109	3	4.73	6.80	34.61	2.31	-14.04	-5.86	2.58	6.37	-20.50	39.86	-2.93
109	4	4.73	6.30	35.05	1.87	-14.13	-6.25	2.33	6.67	-20.23	40.25	-3.33
110	1	4.30	6.50	37.76	1.42	-14.70	-6.48	1.81	6.73	-19.49	42.96	-3.78
110	2	4.30	7.02	37.12	1.83	-14.50	-5.95	1.98	6.27	-19.71	42.31	-3.36
110	3	3.71	7.30	40.52	2.04	-14.60	-6.05	0.74	6.09	-18.59	45.42	-2.87
110	4	3.71	6.76	41.43	1.77	-15.16	-6.78	0.62	6.81	-19.71	46.56	-3.36
111	1	3.28	6.96	44.44	0.95	-14.97	-7.06	-0.38	7.07	-17.27	49.10	-3.70
111	2	3.28	7.52	42.62	1.00	-14.46	-6.06	-0.31	6.07	-17.40	47.15	-3.53
111	3	2.69	7.81	45.21	0.49	-13.83	-6.17	-2.27	6.57	-15.87	49.14	-3.44
111	4	2.69	7.23	48.91	0.98	-13.71	-7.44	-2.13	7.74	-14.89	52.56	-2.66
112	1	2.26	7.42	51.19	-0.58	-13.06	-7.69	-3.64	8.51	-13.39	54.29	-3.69
112	2	2.26	8.02	48.22	-1.21	-12.19	-6.40	-3.87	7.47	-13.12	51.06	-4.05
112	3	1.67	8.31	53.54	-1.90	-7.79	-7.40	-5.92	9.48	-7.85	54.61	-2.97
112	4	1.67	7.69	53.36	-1.25	-12.45	-7.97	-5.57	9.72	-12.26	56.07	-3.96
113	1	15.53	1.59	0.04	-0.03	-0.05	-0.15	0.44	0.47	-26.48	0.06	-0.06
113	2	15.53	1.70	0.05	-0.01	-0.04	-0.22	0.40	0.46	-26.25	0.07	-0.03
113	3	14.94	2.03	0.34	0.02	-0.16	-0.59	0.49	0.77	-22.85	0.41	-0.05
113	4	14.94	1.89	0.31	-0.02	-0.16	-0.44	0.46	0.63	-22.11	0.38	-0.08
114	1	14.51	2.12	0.60	-0.06	-0.26	-0.62	0.70	0.94	-19.14	0.69	-0.15
114	2	14.51	2.27	0.63	0.01	-0.27	-0.80	0.77	1.10	-20.35	0.73	-0.09
114	3	13.92	2.59	1.15	0.07	-0.50	-1.13	1.01	1.52	-21.39	1.35	-0.12
114	4	13.92	2.42	1.12	-0.02	-0.48	-0.86	0.92	1.26	-20.05	1.30	-0.20
115	1	13.49	2.65	1.60	-0.07	-0.68	-1.08	1.16	1.59	-19.54	1.84	-0.31
115	2	13.49	2.83	1.63	0.08	-0.70	-1.41	1.26	1.89	-20.93	1.90	-0.19
115	3	12.90	3.16	2.46	0.19	-1.06	-1.79	1.55	2.37	-21.48	2.87	-0.83
115	4	12.90	2.95	2.42	0.01	-1.02	-1.37	1.40	1.96	-20.18	2.79	-0.37
116	1	12.47	3.17	3.12	-0.05	-1.32	-1.61	1.66	2.31	-19.87	3.60	-0.53
116	2	12.47	3.40	3.17	0.20	-1.36	-2.08	1.85	2.78	-21.21	3.69	-0.33
116	3	11.88	3.78	4.33	0.38	-1.87	-2.51	2.13	3.29	-21.70	5.07	-0.37
116	4	11.88	3.48	4.27	0.09	-1.81	-1.94	1.91	2.72	-20.49	4.95	-0.55
117	1	11.45	3.70	5.24	0.03	-2.23	-2.20	2.21	3.12	-20.27	6.07	-0.75
117	2	11.45	3.96	5.30	0.41	-2.29	-2.84	2.47	3.78	-21.46	6.21	-0.50
117	3	10.86	4.29	6.83	0.67	-2.98	-3.29	2.72	4.27	-22.03	8.03	-0.53
117	4	10.86	4.01	6.76	0.26	-2.90	-2.56	2.44	3.54	-20.85	7.97	-0.84
118	1	10.43	4.23	8.01	0.21	-3.44	-2.84	2.76	3.96	-20.73	9.31	-1.09
118	2	10.43	4.53	8.08	0.74	-3.53	-3.63	3.10	4.77	-21.96	9.50	-0.69
118	3	9.84	4.85	10.00	1.11	-4.41	-4.10	3.33	5.28	-22.37	11.81	-0.71
118	4	9.84	4.53	9.93	0.55	-4.29	-3.25	2.96	4.40	-21.24	11.60	-1.12
119	1	9.41	4.76	11.47	0.52	-4.98	-3.53	3.29	4.83	-21.14	13.39	-1.40
119	2	9.41	5.09	11.54	1.21	-5.10	-4.44	3.68	5.77	-22.43	13.63	-0.88
119	3	8.82	5.42	13.84	1.67	-6.16	-4.90	3.86	6.24	-22.67	16.41	-0.90
119	4	8.82	5.06	13.78	0.97	-6.01	-3.93	3.44	5.22	-21.59	16.15	-1.41
120	1	8.38	5.28	15.61	0.97	-6.82	-4.22	3.73	5.63	-21.49	18.29	-1.72
120	2	8.38	5.66	15.65	1.82	-6.98	-5.23	4.21	6.71	-22.64	18.56	-1.09
120	3	7.79	5.98	18.31	2.36	-8.18	-5.64	4.28	7.08	-22.87	21.76	-1.09
120	4	7.79	5.59	18.29	1.50	-8.00	-4.60	3.79	5.96	-21.82	21.49	-1.70
121	1	7.36	5.81	20.38	1.51	-8.91	-4.86	4.00	6.30	-21.68	23.92	-2.03
121	2	7.36	6.22	20.34	2.51	-9.10	-5.91	4.56	7.47	-22.80	24.16	-1.31
121	3	6.77	6.55	23.24	3.06	-10.36	-6.23	4.50	7.68	-22.88	27.61	-1.31
121	4	6.77	6.12	23.37	2.09	-10.16	-5.20	3.90	6.50	-21.84	27.44	-1.98
122	1	6.34	6.34	25.64	2.06	-11.08	-5.39	3.99	6.71	-21.61	30.03	-2.33
122	2	6.34	6.79	25.41	3.18	-11.28	-6.42	4.64	7.92	-22.70	30.13	-1.54
122	3	5.75	7.11	28.41	3.65	-12.43	-6.57	4.32	7.86	-22.57	33.57	-1.52
122	4	5.75	6.65	28.80	2.59	-12.27	-5.60	3.64	6.68	-21.55	33.64	-2.26
123	1	5.32	6.87	31.16	2.41	-13.06	-5.72	3.48	6.69	-21.12	36.20	-2.64



123	2	5.32	7.35	30.54	3.58	-13.22	-6.61	4.26	7.86	-22.23	35.94	-1.82
123	3	4.73	7.68	33.26	3.79	-14.03	-6.49	3.57	7.41	-21.81	38.87	-1.82
123	4	4.73	7.17	34.32	2.78	-13.88	-5.76	2.75	6.39	-20.68	39.56	-2.46
124	1	4.30	7.40	36.56	2.25	-14.33	-5.72	2.24	6.14	-19.96	41.71	-2.95
124	2	4.30	7.92	35.15	3.38	-14.39	-6.32	3.11	7.05	-21.09	40.70	-2.17
124	3	3.71	8.24	37.40	3.22	-14.28	-5.90	1.77	6.16	-19.95	42.58	-1.96
124	4	3.71	7.70	39.20	2.17	-14.54	-5.59	0.93	5.67	-19.07	44.22	-2.86
125	1	3.28	7.92	41.26	1.18	-14.18	-5.48	-0.18	5.48	-17.64	45.77	-3.33
125	2	3.28	8.48	38.48	2.06	-13.93	-5.52	0.63	5.55	-18.71	43.20	-2.65
125	3	2.69	8.81	38.94	0.71	-12.51	-4.77	-1.79	5.10	-16.60	42.67	-3.01
125	4	2.69	8.23	44.04	0.80	-12.47	-5.48	-2.89	5.88	-14.99	47.38	-2.54
126	1	2.26	8.45	44.89	-1.62	-10.96	-5.49	-4.27	6.96	-12.62	47.44	-4.07
126	2	2.26	9.05	39.51	-1.09	-10.02	-4.32	-4.21	6.03	-13.13	41.85	-3.43
126	3	1.67	9.37	39.73	-1.63	-4.12	-3.49	-7.59	8.35	-5.63	40.14	-2.03
126	4	1.67	8.76	45.91	-3.93	-8.22	-5.85	-6.97	9.10	-9.13	47.24	-5.25
127	1	15.52	1.78	0.06	0.00	-0.04	-0.27	0.38	0.47	-27.40	0.08	-0.01
127	2	15.53	1.89	0.07	0.02	-0.04	-0.39	0.32	0.51	-30.94	0.10	0.00
127	3	14.94	2.26	0.35	0.11	-0.20	-0.98	0.61	1.15	-29.26	0.47	0.00
127	4	14.94	2.13	0.35	0.05	-0.17	-0.71	0.55	0.89	-24.23	0.43	-0.02
128	1	14.51	2.38	0.64	0.07	-0.29	-0.98	0.81	1.27	-22.65	0.76	-0.04
128	2	14.51	2.52	0.62	0.19	-0.35	-1.37	0.95	1.67	-29.21	0.81	0.00
128	3	13.98	2.89	1.09	0.33	-0.61	-2.00	1.31	2.39	-29.00	1.43	-0.01
128	4	13.98	2.72	1.16	0.16	-0.53	-1.40	1.10	1.78	-23.33	1.36	-0.07
129	1	13.49	2.97	1.63	0.21	-0.74	-1.74	1.40	2.23	-23.02	1.94	-0.10
129	2	13.49	3.15	1.54	0.48	-0.86	-2.52	1.70	3.04	-29.20	2.02	0.00
129	3	12.90	3.52	2.28	0.68	-1.27	-3.26	2.13	3.89	-28.94	2.95	-0.02
129	4	12.90	3.31	2.44	0.35	-1.11	-2.23	1.71	2.81	-23.36	2.98	-0.12
130	1	12.47	3.56	3.14	0.43	-1.42	-2.60	2.05	3.31	-23.17	3.75	-0.18
130	2	12.47	3.78	2.92	0.91	-1.64	-3.86	2.59	4.65	-29.23	3.84	-0.01
130	3	11.88	4.15	3.99	1.19	-2.23	-4.70	3.04	5.60	-28.94	5.22	-0.04
130	4	11.88	3.90	4.29	0.64	-1.95	-3.15	2.38	3.95	-23.48	5.14	-0.21
131	1	11.45	4.15	5.25	0.77	-2.39	-3.54	2.78	4.50	-23.42	6.29	-0.27
131	2	11.45	4.41	4.86	1.52	-2.74	-5.36	3.57	6.44	-29.30	6.41	-0.41
131	3	10.86	4.78	6.26	1.88	-3.51	-6.23	4.08	7.42	-29.03	8.21	-0.08
131	4	10.86	4.49	6.75	1.06	-3.10	-4.11	3.07	5.13	-23.72	8.18	-0.20
132	1	10.43	4.74	8.00	1.24	-3.68	-4.53	3.49	5.72	-23.70	9.61	-0.38
132	2	10.43	5.04	7.41	2.33	-4.17	-6.90	4.60	8.29	-29.32	9.75	-0.01
132	3	9.84	5.40	9.16	2.78	-5.15	-7.81	5.01	9.28	-29.09	12.03	-0.08
132	4	9.84	5.09	9.89	1.62	-4.57	-5.09	3.76	6.33	-23.95	11.98	-0.41
133	1	9.41	5.34	11.41	1.86	-5.29	-5.50	4.18	6.91	-23.96	13.76	-0.49
133	2	9.41	5.67	10.55	3.34	-5.95	-8.49	5.63	10.18	-29.40	13.90	-0.01
133	3	8.82	6.03	12.63	3.85	-7.11	-9.35	5.97	11.09	-29.16	16.60	-0.12
133	4	8.82	5.68	13.67	2.33	-6.37	-6.06	4.39	7.48	-24.18	16.53	-0.53
134	1	8.38	5.93	15.46	2.63	-7.22	-6.43	4.79	8.02	-24.18	18.70	-0.61
134	2	8.38	6.30	14.31	4.53	-8.07	-10.01	6.59	11.98	-29.39	18.95	-0.01
134	3	7.79	6.66	16.63	5.10	-9.38	-10.80	6.98	12.80	-29.21	21.58	-0.14
134	4	7.79	6.27	18.04	3.17	-8.45	-6.92	4.93	8.49	-24.32	21.86	-0.65
135	1	7.36	6.52	20.04	3.48	-9.36	-7.23	5.26	8.95	-24.26	24.20	-0.74
135	2	7.36	6.93	18.42	5.85	-10.41	-11.36	7.45	13.58	-29.44	24.29	-0.02
135	3	6.77	7.29	20.91	6.39	-11.78	-12.01	7.59	14.21	-29.18	27.49	-0.19
135	4	6.77	6.86	22.83	4.02	-10.65	-7.59	5.23	9.22	-24.27	27.63	-0.79
136	1	6.34	7.11	24.98	4.28	-11.57	-7.79	5.47	9.51	-24.14	30.11	-0.90
136	2	6.34	7.56	22.74	7.16	-12.79	-12.44	8.10	14.85	-29.33	29.93	-0.03
136	3	5.75	7.92	25.08	7.59	-14.03	-12.86	8.04	15.17	-29.04	32.87	-0.20
136	4	5.75	7.45	27.68	4.71	-12.76	-7.94	5.22	9.50	-24.00	33.36	-0.97
137	1	5.32	7.70	29.68	4.81	-13.49	-7.95	5.23	9.52	-23.67	35.59	-1.10
137	2	5.32	8.19	26.64	8.24	-14.86	-13.05	8.40	15.52	-29.12	34.91	-0.04
137	3	4.73	8.55	28.43	8.34	-15.75	-13.10	8.06	15.38	-28.74	37.07	-0.29

137	4	4.17	8.05	32.15	4.98	-14.24	-7.79	4.61	9.05	-23.17	38.65	-1.11
138	1	4.30	8.30	33.70	4.66	-14.61	-7.49	4.28	8.63	-22.60	39.78	-1.42
138	2	4.30	9.22	29.35	8.66	-16.09	-12.92	8.10	15.25	-26.63	35.73	-0.15
138	3	3.71	9.18	29.76	8.22	-15.86	-12.11	7.01	13.99	-27.91	32.16	-6.18
138	4	3.71	8.64	35.04	4.19	-14.61	-6.87	2.96	7.49	-21.72	40.91	-1.63
139	1	3.28	8.69	35.75	3.31	-13.91	-6.13	1.84	6.40	-20.31	40.90	-1.64
139	2	3.98	9.45	29.26	7.85	-15.24	-11.08	6.40	12.80	-27.46	37.18	-0.07
139	3	2.65	9.81	26.26	5.90	-13.35	-8.56	4.07	9.48	-26.34	38.97	-0.72
139	4	2.69	9.23	35.82	2.21	-11.58	-4.75	-0.89	4.83	-17.28	39.41	-1.39
140	1	2.26	9.48	34.48	-0.57	-9.68	-3.67	-3.66	5.18	-14.46	36.99	-3.07
140	2	2.76	10.08	32.28	3.52	-10.00	-5.26	0.82	5.32	-23.42	36.61	-0.01
140	3	1.67	10.44	14.13	1.70	-3.69	0.77	-3.13	3.22	-15.74	15.14	0.69
140	4	1.67	9.82	28.16	-2.64	-5.75	-1.41	-7.19	7.32	-10.23	29.20	-3.68
141	1	1.30	0.23	96.55	7.92	-2.80	-39.05	1.76	39.09	-1.81	96.64	7.93
141	2	1.30	0.85	96.04	5.69	-12.91	-30.14	3.10	30.40	-7.97	97.84	3.96
141	3	0.88	0.85	111.99	10.13	-38.11	-32.15	12.37	34.45	-18.41	124.67	-2.85
141	4	0.88	0.23	100.87	-16.00	7.07	-40.19	-8.14	41.00	3.45	101.30	-18.48
142	1	0.57	0.23	92.20	-38.16	-18.61	-32.39	17.90	37.01	-7.97	94.81	-40.77
142	2	0.57	0.85	147.32	-12.79	-8.01	-45.70	2.92	45.80	-2.86	147.72	-13.19
142	3	0.15	0.85	161.79	23.21	93.42	-57.98	-42.76	72.04	26.72	208.82	-23.93
142	4	0.15	0.23	113.98	51.44	-43.49	-35.22	9.30	36.42	-27.14	136.85	29.15
143	1	1.30	1.21	101.35	3.13	-13.03	-31.99	1.23	32.02	-7.43	103.04	1.43
143	2	1.30	1.93	96.83	4.57	-12.91	-28.12	-1.62	28.17	-7.82	98.61	2.69
143	3	0.88	1.93	109.52	3.62	-29.14	-31.90	1.72	31.95	-14.42	117.91	-3.87
143	4	0.88	1.31	117.57	3.79	14.15	-37.15	-6.79	37.75	6.99	119.21	8.06
144	1	0.57	1.31	121.54	12.43	4.43	-38.85	-8.21	39.71	2.32	121.72	13.26
144	2	0.57	1.93	123.99	14.31	-5.16	-36.38	-7.38	37.12	-2.69	124.23	14.87
144	3	0.15	1.93	139.38	16.77	76.49	-41.09	-33.17	52.81	25.65	176.10	-13.55
144	4	0.15	1.31	131.78	13.10	-96.36	-35.65	14.71	38.56	-29.19	125.84	-40.37
145	1	1.30	3.39	96.48	7.54	-10.25	-27.36	-3.85	27.63	-6.49	97.64	8.37
145	2	1.30	3.01	89.94	7.08	-12.64	-24.67	-4.99	25.17	-8.49	91.83	5.01
145	3	1.38	3.01	106.49	8.94	-28.24	-26.81	-2.87	26.96	15.83	108.30	-1.80
145	4	1.38	3.39	108.68	12.07	12.01	-31.35	-12.21	33.65	8.98	110.15	4.44
146	1	1.07	3.39	110.98	11.19	-8.50	-31.43	-7.95	32.42	-4.84	111.70	11.07
146	2	0.87	3.01	114.92	10.79	-6.64	-30.25	-9.87	31.82	-3.61	115.34	10.37
146	3	0.15	3.01	128.17	15.86	68.36	-34.88	-32.89	47.54	25.30	160.48	-18.48
146	4	0.15	3.39	126.89	13.60	-73.96	-33.56	7.63	34.48	-26.88	163.41	-28.92
147	1	1.30	3.47	89.61	8.11	-10.92	-23.41	-6.30	24.24	-7.50	91.05	6.07
147	2	1.30	4.09	82.90	5.93	-13.95	-20.69	-6.68	21.74	-9.30	85.02	3.72
147	3	0.66	4.09	91.89	6.82	-26.12	-22.34	-5.56	23.02	-15.78	99.27	-6.59
147	4	0.88	3.47	99.68	10.82	8.57	-26.23	-13.08	29.31	5.46	100.50	10.06
148	1	0.57	3.47	103.07	11.52	-6.43	-26.89	-10.88	29.01	-4.00	103.52	11.67
148	2	0.57	4.09	104.28	9.89	-6.46	-25.22	-11.85	27.87	-3.89	104.72	9.45
148	3	0.15	4.09	115.31	13.60	60.83	-29.01	-30.73	42.86	25.05	143.75	-14.83
148	4	0.15	3.47	114.00	12.03	-69.92	-27.47	1.99	27.55	-26.95	149.55	-23.58
149	1	1.30	4.55	82.01	6.48	-11.03	-19.30	-7.52	20.72	-8.14	83.59	4.90
149	2	1.30	5.17	75.32	3.59	-12.83	-16.58	-7.49	18.19	-9.84	77.55	1.37
149	3	0.88	5.17	82.60	4.21	-24.09	-17.67	-7.20	19.08	-15.79	89.41	-2.60
149	4	0.88	4.55	90.70	9.01	6.78	-21.62	-13.66	25.57	4.72	91.26	8.45
150	1	0.57	4.55	91.99	8.85	-7.13	-21.59	-12.15	24.78	-4.87	92.59	8.24
150	2	0.57	5.17	93.59	6.60	-6.43	-20.04	-12.58	23.66	-4.20	94.06	6.13
150	3	0.15	5.17	102.41	10.00	53.27	-23.28	-28.23	36.59	24.53	126.72	-14.31
150	4	0.15	4.55	101.58	9.12	-61.66	-21.79	-2.70	21.96	-26.57	132.41	-21.71
151	1	1.30	5.63	74.43	3.97	-10.69	-15.23	-7.92	17.16	-8.44	76.02	2.38
151	2	1.30	6.25	67.82	0.81	-12.17	-12.62	-7.53	14.69	-9.98	69.96	-1.33
151	3	0.88	6.25	73.63	0.89	-21.60	-13.10	-7.92	15.31	-15.35	79.56	-5.04
151	4	0.88	5.63	81.31	5.80	4.95	-16.93	-13.15	21.44	3.74	81.64	5.48
152	1	0.57	5.63	81.54	5.47	-6.78	-16.51	-12.49	20.71	-5.05	82.13	4.87

152	2	0.57	6.25	82.95	2.97	-6.24	-15.19	-12.21	19.49	-4.44	83.44	2.48
152	3	0.15	6.25	89.62	5.74	46.17	-17.24	-24.49	29.95	23.88	110.06	-14.70
152	4	0.15	5.63	88.68	5.19	-54.28	-16.00	-6.88	17.19	26.22	115.41	-21.55
153	1	1.30	6.71	66.89	1.14	-9.83	-11.44	-7.53	13.70	-8.32	68.32	-0.30
153	2	1.30	7.33	60.98	-1.92	-10.91	-9.39	-6.99	11.71	-9.57	62.52	-3.76
153	3	0.88	7.33	65.07	-1.98	-18.92	-9.52	-7.31	12.00	-14.72	70.04	-6.95
153	4	0.88	6.71	72.31	2.48	3.89	-12.50	-11.61	17.06	3.18	72.53	2.87
154	1	0.57	6.71	71.70	1.47	-6.20	-11.58	-11.77	16.51	-5.01	72.24	0.93
154	2	0.57	7.33	72.97	-0.65	-4.93	-10.08	-10.57	14.61	-3.82	73.30	-0.99
154	3	0.15	7.33	77.53	1.71	39.00	-12.22	-18.70	22.34	22.91	94.01	-14.77
154	4	0.15	6.71	76.87	1.07	-46.93	-10.42	-8.47	13.43	25.54	99.29	-21.35
155	1	1.30	7.79	59.88	-1.78	-7.97	-8.69	-6.82	11.05	-7.25	60.90	-2.79
155	2	1.30	8.41	52.77	-4.54	-7.83	-7.61	-6.58	10.06	-7.64	53.82	-5.60
155	3	0.88	8.41	59.54	-4.80	-15.04	-7.22	-6.39	9.64	-12.53	62.88	-8.15
155	4	0.88	7.79	64.51	-1.46	3.41	-9.46	-9.17	13.18	2.95	64.69	-1.64
156	1	0.57	7.79	63.15	-0.75	-5.42	-7.82	-8.56	11.59	-4.82	63.61	-1.20
156	2	0.57	8.41	65.01	-1.95	-5.80	-9.99	-5.11	11.22	-4.91	65.51	-2.45
156	3	0.15	8.41	69.10	0.00	36.82	-4.01	-8.73	9.61	23.41	85.04	-15.94
156	4	0.15	7.79	66.54	-2.03	-40.40	-5.09	-8.05	9.52	24.84	85.24	-20.73
157	1	1.30	8.87	52.96	-4.18	-3.31	-7.53	-7.83	10.86	-3.30	53.15	-4.37
157	2	1.30	9.49	37.25	-4.59	-1.50	-3.44	-9.23	9.85	-2.05	37.31	-4.64
157	3	0.88	9.49	38.90	-8.83	-0.55	-3.79	-8.38	9.20	-0.66	38.90	-9.84
157	4	0.88	8.87	59.56	-2.62	6.10	-9.67	-5.46	11.11	5.56	60.15	-3.21
158	1	0.57	8.87	62.49	-6.59	-3.74	-8.06	-3.54	8.80	-3.09	62.69	-8.79
158	2	0.57	9.49	62.75	-7.80	12.76	-3.84	-4.46	5.89	9.95	64.98	-10.04
158	3	0.15	9.49	66.84	8.59	30.24	-10.31	20.87	23.28	23.04	79.70	-4.27
158	4	0.15	8.87	67.32	2.91	-37.79	-3.73	1.04	3.87	-24.78	84.77	-14.53
159	1	1.30	9.95	26.46	-1.78	-0.28	0.46	-8.49	8.50	-0.57	26.46	-1.78
159	2	1.30	10.57	9.80	0.33	-0.93	5.22	-3.82	6.47	-5.57	9.88	0.24
159	3	0.88	10.57	4.78	-2.61	-1.21	9.69	-1.32	9.78	-9.04	4.98	-2.80
159	4	0.88	9.95	27.03	2.98	9.04	1.67	-7.26	7.44	18.47	30.05	-0.04
160	1	0.57	9.95	3.51	3.91	12.11	1.50	-3.97	4.24	45.47	15.82	-5.48
160	2	0.57	10.57	3.46	3.17	-3.25	12.59	0.55	12.60	43.71	6.57	3.06
160	3	0.15	10.57	-0.54	-3.38	0.66	3.40	6.30	7.16	12.47	-0.29	-3.53
160	4	0.15	9.95	-0.16	-10.26	-5.75	11.13	22.64	25.23	24.35	3.44	-13.87

161	MUELLE	50.819
162	MUELLE	44.405
163	MUELLE	37.949
164	MUELLE	31.468
165	MUELLE	24.962
166	MUELLE	18.426
167	MUELLE	11.851
168	MUELLE	5.227
169	MUELLE	-1.468

RESULTANTES DE TENSIONES

NUDO	FUER. Z	MOME. X	MOME. Y
1	1.95	0.00	0.00
2	-1.12	0.00	0.00
3	2.10	0.00	0.00
4	-0.98	0.00	0.00
5	-0.49	0.00	0.00
6	-61.89	0.00	128.94
7	-0.56	0.00	0.00
8	2.26	0.00	0.00

9	1.81	0.00	0.00
10	-0.83	0.00	0.00
11	1.66	0.00	0.00
12	-0.42	0.00	0.00
13	-49.02	0.00	113.84
14	-1.41	0.00	0.00
15	2.69	0.00	0.00
16	-1.27	0.00	0.00
17	2.25	0.00	0.00
18	2.41	0.00	0.00
19	-1.27	0.00	0.00
20	2.55	0.00	0.00
21	-74.70	0.00	142.38
22	-0.64	0.00	0.00
23	2.54	0.00	0.00
24	2.34	0.00	0.00
25	-1.07	0.00	0.00
26	1.95	0.00	0.00
27	2.00	0.00	0.00
28	-0.90	0.00	0.00
29	1.67	0.00	0.00
30	1.65	0.00	0.00
31	-0.73	0.00	0.00
32	1.36	0.00	0.00
33	-0.69	0.00	0.00
34	1.51	0.00	0.00
35	1.37	0.00	0.00
36	-0.34	0.00	0.00
37	-36.11	0.00	99.15
38	-1.66	0.00	0.00
39	3.13	0.00	0.00
40	-1.47	0.00	0.00
41	3.13	0.00	0.00
42	2.04	0.00	0.00
43	-1.59	0.00	0.00
44	3.52	0.00	0.00
45	3.76	0.00	0.00
46	-1.39	0.00	0.00
47	3.74	0.00	0.00
48	2.69	0.00	0.00
49	-1.44	0.00	0.00
50	2.25	0.00	0.00
51	2.40	0.00	0.00
52	-1.11	0.00	0.00
53	2.35	0.00	0.00
54	-97.46	0.00	159.09
55	-0.72	0.00	0.00
56	2.86	0.00	0.00
57	2.03	0.00	0.00
58	-0.92	0.00	0.00
59	1.96	0.00	0.00
60	1.66	0.00	0.00
61	-0.73	0.00	0.00
62	1.56	0.00	0.00
63	1.29	0.00	0.00
64	-0.55	0.00	0.00
65	1.17	0.00	0.00
66	-0.56	0.00	0.00

67	1.30	0.00	0.00
68	1.07	0.00	0.00
69	-0.54	0.00	0.00
70	1.22	0.00	0.00
71	1.07	0.00	0.00
72	-0.27	0.00	0.00
73	-23.09	0.00	85.19
74	-0.77	0.00	0.00
75	3.06	0.00	0.00
76	-1.46	0.00	0.00
77	3.11	0.00	0.00
78	3.50	0.00	0.00
79	-0.88	0.00	0.00
80	1.64	0.00	0.00
81	3.39	0.00	0.00
82	-0.83	0.00	0.00
83	1.86	0.00	0.00
84	2.75	0.00	0.00
85	-1.30	0.00	0.00
86	2.77	0.00	0.00
87	2.42	0.00	0.00
88	-1.13	0.00	0.00
89	2.42	0.00	0.00
90	3.00	0.00	0.00
91	-0.75	0.00	0.00
92	1.50	0.00	0.00
93	3.11	0.00	0.00
94	-0.97	0.00	0.00
95	2.07	0.00	0.00
96	-100.13	0.00	150.55
97	-0.38	0.00	0.00
98	1.49	0.00	0.00
99	1.76	0.00	0.00
100	-0.81	0.00	0.00
101	1.73	0.00	0.00
102	1.46	0.00	0.00
103	-0.65	0.00	0.00
104	1.38	0.00	0.00
105	1.13	0.00	0.00
106	-0.48	0.00	0.00
107	1.03	0.00	0.00
108	0.81	0.00	0.00
109	-0.32	0.00	0.00
110	0.69	0.00	0.00
111	-0.37	0.00	0.00
112	0.92	0.00	0.00
113	0.78	0.00	0.00
114	-0.39	0.00	0.00
115	0.96	0.00	0.00
116	0.78	0.00	0.00
117	-0.39	0.00	0.00
118	0.92	0.00	0.00
119	0.78	0.00	0.00
120	-0.19	0.00	0.00
121	-9.99	0.00	74.33
122	-0.66	0.00	0.00
123	2.66	0.00	0.00
124	-1.25	0.00	0.00

125	2.71	0.00	0.00
126	1.43	0.00	0.00
127	2.38	0.00	0.00
128	-1.12	0.00	0.00
129	2.41	0.00	0.00
130	2.11	0.00	0.00
131	-0.99	0.00	0.00
132	2.11	0.00	0.00
133	1.23	0.00	0.00
134	-0.84	0.00	0.00
135	1.60	0.00	0.00
136	1.54	0.00	0.00
137	-0.70	0.00	0.00
138	1.51	0.00	0.00
139	1.26	0.00	0.00
140	-0.56	0.00	0.00
141	1.20	0.00	0.00
142	0.98	0.00	0.00
143	-0.42	0.00	0.00
144	0.90	0.00	0.00
145	0.70	0.00	0.00
146	-0.28	0.00	0.00
147	0.60	0.00	0.00
148	0.42	0.00	0.00
149	-0.14	0.00	0.00
150	0.30	0.00	0.00
151	-0.16	0.00	0.00
152	0.42	0.00	0.00
153	0.34	0.00	0.00
154	-0.18	0.00	0.00
155	0.55	0.00	0.00
156	1.39	0.00	0.00
157	-0.28	0.00	0.00
158	0.61	0.00	0.00
159	0.48	0.00	0.00
160	-0.24	0.00	0.00
161	0.63	0.00	0.00
162	0.48	0.00	0.00
163	-0.13	0.00	0.00
164	0.25	0.00	72.35
165	-0.58	0.00	0.00
166	2.28	0.00	0.00
167	-1.09	0.00	0.00
168	2.35	0.00	0.00
169	1.23	0.00	0.00
170	2.05	0.00	0.00
171	-0.97	0.00	0.00
172	2.09	0.00	0.00
173	1.82	0.00	0.00
174	-0.85	0.00	0.00
175	1.83	0.00	0.00
176	1.57	0.00	0.00
177	-0.73	0.00	0.00
178	1.56	0.00	0.00
179	1.33	0.00	0.00
180	-0.60	0.00	0.00
181	1.30	0.00	0.00
182	1.08	0.00	0.00

183	-0.48	0.00	0.00
184	1.04	0.00	0.00
185	0.85	0.00	0.00
186	-0.36	0.00	0.00
187	0.78	0.00	0.00
188	0.61	0.00	0.00
189	-0.24	0.00	0.00
190	0.52	0.00	0.00
191	0.36	0.00	0.00
192	-0.12	0.00	0.00
193	0.26	0.00	0.00
194	0.12	0.00	0.00
195	-0.03	0.00	0.00
196	0.06	0.00	0.00
197	-0.03	0.00	0.00
198	0.14	0.00	0.00
199	0.07	0.00	0.00
200	-0.04	0.00	0.00
201	0.16	0.00	0.00
202	0.09	0.00	0.00
203	-0.05	0.00	0.00
204	0.18	0.00	0.00
205	0.10	0.00	0.00
206	-0.07	0.00	0.00
207	0.26	0.00	0.00
208	0.17	0.00	0.00
209	-0.08	0.00	0.00
210	0.33	0.00	0.00
211	0.17	0.00	0.00
212	-0.04	0.00	0.00
213	0.17	0.00	0.00
214	-0.48	0.00	0.00
215	1.35	0.00	0.00
216	-0.92	0.00	0.00
217	3.01	0.00	0.00
218	1.05	0.00	0.00
219	1.75	0.00	0.00
220	0.82	0.00	0.00
221	1.79	0.00	0.00
222	1.54	0.00	0.00
223	-0.72	0.00	0.00
224	1.56	0.00	0.00
225	1.33	0.00	0.00
226	-0.62	0.00	0.00
227	1.34	0.00	0.00
228	1.13	0.00	0.00
229	-0.51	0.00	0.00
230	1.11	0.00	0.00
231	0.93	0.00	0.00
232	0.41	0.00	0.00
233	0.89	0.00	0.00
234	0.72	0.00	0.00
235	-0.31	0.00	0.00
236	0.67	0.00	0.00
237	0.52	0.00	0.00
238	-0.21	0.00	0.00
239	0.45	0.00	0.00
240	0.31	0.00	0.00

241	-0.10	0.00	0.00
242	0.22	0.00	0.00
243	0.11	0.00	0.00
244	-0.03	0.00	0.00
245	0.06	0.00	0.00
246	-0.41	0.00	0.00
247	1.63	0.00	0.00
248	-0.77	0.00	0.00
249	1.69	0.00	0.00
250	0.89	0.00	0.00
251	1.46	0.00	0.00
252	-0.68	0.00	0.00
253	1.51	0.00	0.00
254	1.29	0.00	0.00
255	-0.60	0.00	0.00
256	1.32	0.00	0.00
257	1.12	0.00	0.00
258	-0.52	0.00	0.00
259	1.13	0.00	0.00
260	0.94	0.00	0.00
261	-0.43	0.00	0.00
262	0.94	0.00	0.00
263	0.77	0.00	0.00
264	-0.34	0.00	0.00
265	0.75	0.00	0.00
266	0.60	0.00	0.00
267	-0.27	0.00	0.00
268	0.56	0.00	0.00
269	0.43	0.00	0.00
270	-0.17	0.00	0.00
271	0.39	0.00	0.00
272	0.26	0.00	0.00
273	-0.09	0.00	0.00
274	0.19	0.00	0.00
275	0.09	0.00	0.00
276	-0.02	0.00	0.00
277	0.05	0.00	0.00
278	-0.33	0.00	0.00
279	1.35	0.00	0.00
280	-0.64	0.00	0.00
281	1.41	0.00	0.00
282	0.74	0.00	0.00
283	1.21	0.00	0.00
284	-0.56	0.00	0.00
285	1.25	0.00	0.00
286	1.06	0.00	0.00
287	-0.49	0.00	0.00
288	1.09	0.00	0.00
289	0.91	0.00	0.00
290	-0.42	0.00	0.00
291	0.94	0.00	0.00
292	0.78	0.00	0.00
293	-0.35	0.00	0.00
294	0.78	0.00	0.00
295	0.64	0.00	0.00
296	-0.28	0.00	0.00
297	0.62	0.00	0.00
298	0.50	0.00	0.00

299	-0.21	0.00	0.00
300	0.47	0.00	0.00
301	0.36	0.00	0.00
302	-0.15	0.00	0.00
303	0.31	0.00	0.00
304	0.21	0.00	0.00
305	-0.07	0.00	0.00
306	0.16	0.00	0.00
307	0.07	0.00	0.00
308	-0.02	0.00	0.00
309	0.04	0.00	0.00
310	-0.27	0.00	0.00
311	1.07	0.00	0.00
312	0.52	0.00	0.00
313	1.14	0.00	0.00
314	0.61	0.00	0.00
315	0.97	0.00	0.00
316	-0.45	0.00	0.00
317	1.02	0.00	0.00
318	0.85	0.00	0.00
319	-0.40	0.00	0.00
320	0.89	0.00	0.00
321	0.75	0.00	0.00
322	-0.34	0.00	0.00
323	0.76	0.00	0.00
324	0.63	0.00	0.00
325	-0.29	0.00	0.00
326	0.64	0.00	0.00
327	0.59	0.00	0.00
328	-0.24	0.00	0.00
329	0.51	0.00	0.00
330	0.40	0.00	0.00
331	-0.17	0.00	0.00
332	0.38	0.00	0.00
333	0.28	0.00	0.00
334	-0.12	0.00	0.00
335	0.25	0.00	0.00
336	0.17	0.00	0.00
337	-0.05	0.00	0.00
338	0.13	0.00	0.00
339	0.06	0.00	0.00
340	-0.02	0.00	0.00
341	0.03	0.00	0.00
342	-0.21	0.00	0.00
343	0.85	0.00	0.00
344	-0.40	0.00	0.00
345	0.91	0.00	0.00
346	0.48	0.00	0.00
347	0.76	0.00	0.00
348	-0.36	0.00	0.00
349	0.81	0.00	0.00
350	0.67	0.00	0.00
351	-0.31	0.00	0.00
352	0.71	0.00	0.00
353	0.58	0.00	0.00
354	-0.27	0.00	0.00
355	0.61	0.00	0.00
356	0.50	0.00	0.00

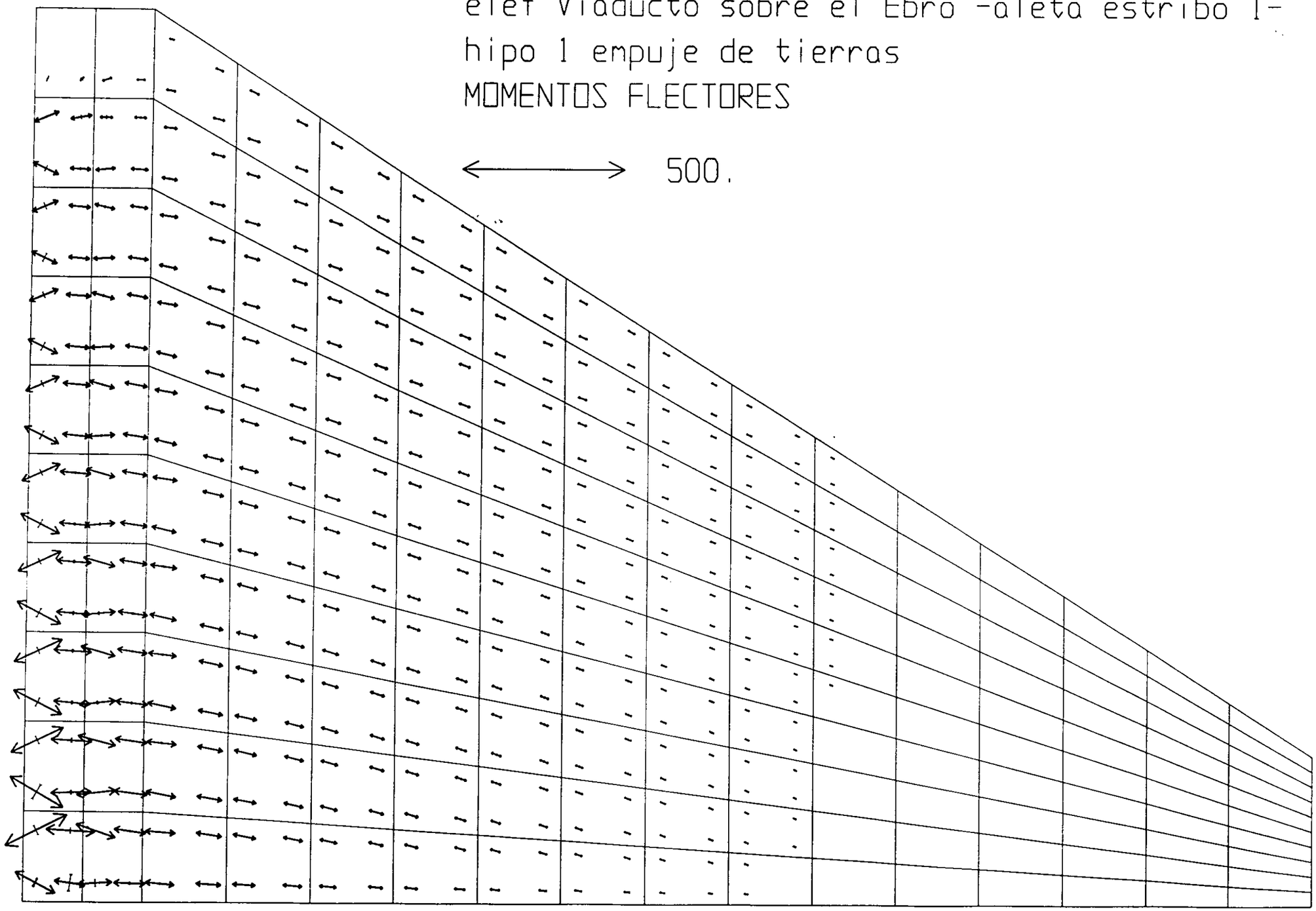
357	-0.23	0.00	0.00
358	0.50	0.00	0.00
359	0.42	0.00	0.00
360	-0.18	0.00	0.00
361	0.41	0.00	0.00
362	0.31	0.00	0.00
363	-0.14	0.00	0.00
364	0.31	0.00	0.00
365	0.22	0.00	0.00
366	-0.09	0.00	0.00
367	0.20	0.00	0.00
368	0.14	0.00	0.00
369	-0.04	0.00	0.00
370	0.10	0.00	0.00
371	0.05	0.00	0.00
372	-0.01	0.00	0.00
373	0.02	0.00	0.00
374	-0.16	0.00	0.00
375	0.64	0.00	0.00
376	-0.31	0.00	0.00
377	0.71	0.00	0.00
378	0.37	0.00	0.00
379	0.58	0.00	0.00
380	-0.27	0.00	0.00
381	0.62	0.00	0.00
382	0.51	0.00	0.00
383	-0.24	0.00	0.00
384	0.55	0.00	0.00
385	0.45	0.00	0.00
386	-0.21	0.00	0.00
387	0.47	0.00	0.00
388	0.37	0.00	0.00
389	-0.17	0.00	0.00
390	0.40	0.00	0.00
391	0.31	0.00	0.00
392	-0.14	0.00	0.00
393	0.38	0.00	0.00
394	0.24	0.00	0.00
395	-0.10	0.00	0.00
396	0.23	0.00	0.00
397	0.17	0.00	0.00
398	-0.06	0.00	0.00
399	0.16	0.00	0.00
400	0.10	0.00	0.00
401	-0.03	0.00	0.00
402	0.09	0.00	0.00
403	0.03	0.00	0.00
404	0.00	0.00	0.00
405	0.02	0.00	0.00
406	-0.12	0.00	0.00
407	0.47	0.00	0.00
408	-0.22	0.00	0.00
409	0.53	0.00	0.00
410	0.28	0.00	0.00
411	0.43	0.00	0.00
412	-0.20	0.00	0.00
413	0.47	0.00	0.00
414	0.37	0.00	0.00

415	-0.18	0.00	0.00
416	0.41	0.00	0.00
417	0.33	0.00	0.00
418	-0.16	0.00	0.00
419	0.35	0.00	0.00
420	0.28	0.00	0.00
421	-0.13	0.00	0.00
422	0.30	0.00	0.00
423	0.22	0.00	0.00
424	-0.10	0.00	0.00
425	0.23	0.00	0.00
426	0.18	0.00	0.00
427	-0.08	0.00	0.00
428	0.18	0.00	0.00
429	0.13	0.00	0.00
430	-0.05	0.00	0.00
431	0.12	0.00	0.00
432	0.07	0.00	0.00
433	0.03	0.00	0.00
434	0.06	0.00	0.00
435	0.04	0.00	0.00
436	-0.01	0.00	0.00
437	0.02	0.00	0.00
438	-0.08	0.00	0.00
439	0.33	0.00	0.00
440	-0.15	0.00	0.00
441	0.31	0.00	0.00
442	0.20	0.00	0.00
443	0.29	0.00	0.00
444	-0.14	0.00	0.00
445	0.34	0.00	0.00
446	0.26	0.00	0.00
447	-0.13	0.00	0.00
448	0.29	0.00	0.00
449	0.33	0.00	0.00
450	-0.12	0.00	0.00
451	0.25	0.00	0.00
452	0.20	0.00	0.00
453	0.09	0.00	0.00
454	0.20	0.00	0.00
455	0.15	0.00	0.00
456	-0.07	0.00	0.00
457	0.17	0.00	0.00
458	0.12	0.00	0.00
459	-0.05	0.00	0.00
460	0.13	0.00	0.00
461	0.08	0.00	0.00
462	-0.03	0.00	0.00
463	0.06	0.00	0.00
464	0.05	0.00	0.00
465	-0.01	0.00	0.00
466	0.04	0.00	0.00
467	0.03	0.00	0.00
468	-0.01	0.00	0.00
469	0.01	0.00	0.00
470	-0.05	0.00	0.00
471	0.20	0.00	0.00
472	-0.09	0.00	0.00

473	0.24	0.00	0.00
474	0.13	0.00	0.00
475	0.17	0.00	0.00
476	-0.09	0.00	0.00
477	0.21	0.00	0.00
478	0.16	0.00	0.00
479	-0.08	0.00	0.00
480	0.19	0.00	0.00
481	0.15	0.00	0.00
482	-0.06	0.00	0.00
483	0.16	0.00	0.00
484	0.12	0.00	0.00
485	-0.04	0.00	0.00
486	0.15	0.00	0.00
487	0.09	0.00	0.00
488	-0.04	0.00	0.00
489	0.11	0.00	0.00
490	0.06	0.00	0.00
491	-0.04	0.00	0.00
492	0.09	0.00	0.00
493	0.05	0.00	0.00
494	-0.02	0.00	0.00
495	0.05	0.00	0.00
496	0.03	0.00	0.00
497	0.00	0.00	0.00
498	0.03	0.00	0.00
499	0.01	0.00	0.00
500	0.00	0.00	0.00
501	0.00	0.00	0.00
502	-0.02	0.00	0.00
503	0.07	0.00	0.00
504	-0.04	0.00	0.00
505	0.14	0.00	0.00
506	0.08	0.00	0.00
507	0.05	0.00	0.00
508	-0.03	0.00	0.00
509	0.12	0.00	0.00
510	0.07	0.00	0.00
511	-0.04	0.00	0.00
512	0.11	0.00	0.00
513	0.05	0.00	0.00
514	-0.02	0.00	0.00
515	0.10	0.00	0.00
516	0.04	0.00	0.00
517	-0.01	0.00	0.00
518	0.09	0.00	0.00
519	0.04	0.00	0.00
520	-0.02	0.00	0.00
521	0.06	0.00	0.00
522	0.03	0.00	0.00
523	-0.02	0.00	0.00
524	0.05	0.00	0.00
525	0.02	0.00	0.00
526	0.00	0.00	0.00
527	0.03	0.00	0.00
528	0.01	0.00	0.00
529	0.00	0.00	0.00
530	0.02	0.00	0.00

531	0.00	0.00	0.00
532	0.00	0.00	0.00
533	0.01	0.00	0.00

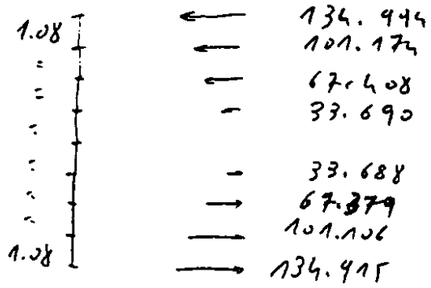
elef Viaducto sobre el Ebro -aleta estribo 1-
hipo 1 empuje de tierras
MOMENTOS FLECTORES



Peso propio de la aleta

P= 425.42 T

momento de peso propio



M = (134.944 + 134.915) 4.32 + (101.172 + 101.106) 3.24 +
+ (67.408 + 67.379) 2.16 + (33.690 + 33.688) 1.08 = 2185.30 m T

flecha en la punta 92 mm

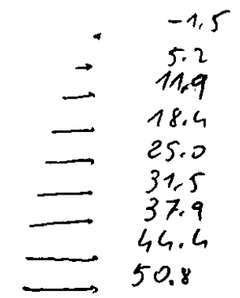
$U_t = \frac{2500}{1.5} 2 \times 9.7 = 32333$ T

$w = 32333 \left[1 - \sqrt{1 - \frac{2 \times 2185.3 \times 1.5}{32333 \times 9.7}}\right] \frac{1.15}{5.1} = 76.6$ cm²

16 Ø25

Empuje de tierras

Carga horizontal 223.64 T



P_{max} = 208.82 m T/m q_{max} = 72.04 T/m

$U_c = \frac{2500}{1.5} 1.95 = 3250$ T/m

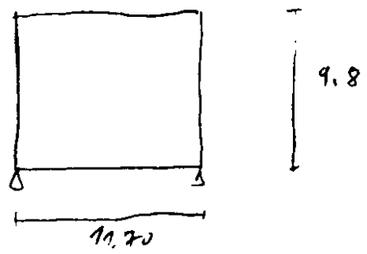
$w = 3250 \left[1 - \sqrt{1 - \frac{2 \times 208.82 \times 1.5}{3250 \times 1.95}}\right] \frac{1.15}{5.1} = 37.16$ cm²/m

Ø25 a 0,175

$V_{cu} = 0.5 \sqrt{\frac{250}{1.5}} 10 \times 1.45 = 125.87$ T/m

$w_c = \frac{72.04 \times 1.5 - 125.87}{0.9 \times 1.95} \frac{1}{4.2} < 0$ no necesita cercos

Muro frente del estribo



espesor 2 m

- peso propio (viga de gran canto)

$M = 9.8 \times 2 \times 2.5 \frac{11.7^2}{8} = 838.45$ m T

$z = 0.7(11.7 + 2 \times 4.8) = 6.26$ m

$w = \frac{838.45}{6.26} 1.5 \frac{1.15}{5.1} = 45.30$ cm² 10 ϕ 25

- encepado $M = 2.8 \times 1 \times 2.5 \frac{11.7^2}{8} = 119.78$ m T

$U_c = \frac{2500}{1.5} 0.45 \times 2.8 = 4433$ T

$w = 4433 \left[1 - \sqrt{1 - \frac{2 \times 119.78 \times 1.5}{4433 \times 0.45}}\right] \frac{1.15}{5.1} = 43.60$ cm² 14 ϕ 20

- empuje de tierras

carga en el último metro

$q = 0.238(10.3 \times 2.2 + 1.5) = 5.75$ T/m

$M = 5.75 \times \frac{11.7^2}{10} = 78.71$ m T

$U_c = \frac{2500}{1.5} 1.15 = 3250$ T

$w = 3250 \left[1 - \sqrt{1 - \frac{2 \times 78.71 \times 1.5}{3250 \times 0.45}}\right] \frac{1.15}{5.1} = 13.78$ cm² 5 ϕ 20

Carga sobre el parque

- fuerza horizontal

muro frontal $q_s = 0.238 \times 1.5 = 0.357$ T/m²

$q_t = 0.238 \times (10.8 \times 2.2 + 1.5) = 6.01$ T/m²

$E = \frac{0.357 + 6.01}{2} 10.8 = 34.38$ T/m

$H = \frac{11.7}{2} 34.38 = 201.12$ T

aleta 273.64 T

carga rozamiento puente $0.035 \times 229.4 = 8.03$ T

carga rozamiento empuje $0.035 \times 1363 = 47.71$ T

carga horizontal total por cuchillo (muro)

$H_t = 477.47$ T

armadura de anclaje

$w = 477.47 \times 1$ T $\frac{1.15}{5.1} = 159.81$ cm² 80 ϕ 16

ϕ16 a 0,20 por cara

- carga vertical (reacción máxima empuje 320 T

$q = 0.8 \times 2.5 \times 9.5 = 19$ T/m

$M = 19 \times \frac{7.8^2}{10} + 320 \times 2 \frac{3.8^2 \cdot 4^2}{7.8^3} = 115.6 + 311.6 = 427.2$ m T

$z = 0.5 \times 7.8 = 3.9$ m

$w = \frac{427.2}{3.9} 1.5 \frac{1.15}{5.1} = 37.05$ cm² 19 ϕ 16

En cogrodo parque

$$M = 1.7 \times 2.5 \frac{7.8^2}{10} = 18.25 \text{ m T}$$

$$U_c = \frac{250}{1.5} 0.45 \times 1.7 = 1900$$

$$w = 1900 \left[1 - \sqrt{1 - \frac{2 \times 18.25 \times 1.5}{1900 \times 0.95}} \right] \frac{1.15}{5.1} = 6.56 \text{ cm}^2$$

- rustra

$$M = 1.5 \times 2.5 \frac{11.7^2}{8} = 64.17 \text{ m T}$$

$$U_c = \frac{250}{1.5} 0.45 \times 15 = 2375$$

$$w = 2375 \left[1 - \sqrt{1 - \frac{2 \times 64.17 \times 1.5}{2375 \times 0.45}} \right] \frac{1.15}{5.1} = 23.30 \text{ cm}^2$$

8 φ 20

Cimentación

- pilotes delantero

dcha	425.42 T
frente $9.8 \times 2 \times \frac{11.7}{2} 2.5$ =	286.65 T
encepado $2.8 \times 1 \times \frac{11.7}{2} 2.5$ =	40.45 T
muro trasero $9.5 \times 1.4 \times \frac{7.8}{2} 2.5$ =	129.68 T
carga máxima pilote	509.21 T
carga máxima empuje	420.05 T

carga sobre pilote 1391.91 T

$$\sigma = \frac{1391.91}{\frac{\pi}{4} 4} \frac{1}{10} = 44.31 \text{ kg/cm}^2$$

- pilotes de parque

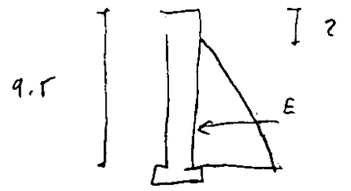
pilar muro $9.5 \times 0.8 \times 7.8 \times 2.5$ =	148.2 T
encepado $1 \times 1.2 \times 7.8 \times 2.5$ =	23.4 T
vuestros $1 \times 1.5 \times \frac{10.5}{2} 2.5$ =	19.69 T
carga máxima empuje $247.88 \frac{5.8}{7.8}$ =	184.32 T

carga sobre pilote 375.61 T

$$\sigma = \frac{375.61}{\frac{\pi}{4} 1} \frac{1}{10} = 47.24 \text{ kg/cm}^2$$

Estabilidad del parque

- vaciamiento parcelas de muro



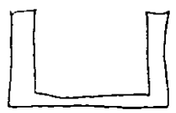
$E = \frac{0.738 \times 7.5 \times 7.2}{2} 7.5 = 14.73$ T/m

carga vaciamiento $14.73 \times 0.55 = 8.10$ T/m

por muro $2 \times 48 \times 8.10 = 777.6$ T

coef. seguridad vaciamiento $\frac{777.6}{472.47} = 1.65$ VALE

- vaciamiento fondo

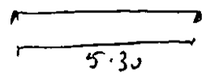


$P = 12.5 \times 48 \times 7.5 \times 2.2 = 9900$

carga vaciamiento $9900 \times 0.55 = 5445$ T

Plataforma trabajo

- losa



$q = 2.0$ T/m²
$e = 30$ cm

$M = 2 \frac{5.3^2}{8} = 7.02$ mT/m

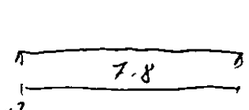
$U_c = \frac{250}{1.5} 0.27 = 450$ T/m

$w = 450 \left[1 - \sqrt{1 - \frac{2 \times 7.02 \times 1.5}{450 \times 0.27}}\right] \frac{1.15}{5.1} = 9.21$ cm²/m Ø16 a 0,20

$V_{cu} = 0.5 \sqrt{\frac{250}{1.5}} 10 \times 0.27 = 17.43$ T/m

$Q = 2 \frac{5.3}{2} = 5.3$ T/m $w_c = \frac{5.3 \times 1.5 - 17.43}{0.4 \times 0.27} \frac{1}{4.1} < 0$ no necesita cercos

- viga



$M = 5.3 \frac{7.8^2}{10} = 32.25$ mT

$U_c = \frac{250}{1.5} 0.20 \times 0.57 = 665$ T

$w = 665 \left[1 - \sqrt{1 - \frac{2 \times 32.25 \times 1.5}{665 \times 0.57}}\right] \frac{1.15}{5.1} = 20.53$ cm² 5Ø25 7Ø20

$Q = 5.3 \frac{7.8}{2} = 20.67$ T

$V_{cu} = 0.5 \sqrt{\frac{250}{1.5}} 10 \times 0.7 \times 0.57 = 25.76$ T

$w_c = \frac{20.67 \times 1.5 - 25.76}{0.4 \times 0.57} \frac{1}{4.7} = 2.43$ cm²/m cØ10 a 0,20

- pila Ø0.60 $N = 41.34$ T $\sigma = \frac{41.34}{\frac{\pi}{4} 0.6^2} \frac{1}{10} = 1463$ kg/cm²

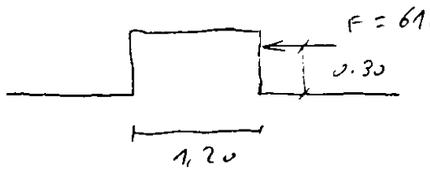
$M = 0.1 \times 41.34 = 4.13$ mT

$\mu = \frac{41.34}{\frac{\pi}{4} 0.6^2 \frac{250}{1.8}} = 0.09$ } $\omega = 0.05$

$\mu = \frac{4.13}{282.75} = 0.015$

$A = 0.05 \times 477.25 \times \frac{1.15}{5.1} = 5.39$ cm²

Tabla de empujes



Ancho 1.40 m

$M = 616 \times 0.30 = 184.8$ m T

$U_c = \frac{25}{1.5} 1.4 \times 1.10 = 2566.66$ T

$w = 2566.66 \left[1 - \sqrt{1 - \frac{2 \times 184.8 \times 1.5}{2566.66 \times 1.1}} \right] \frac{1.15}{5.1} = 59.90 \text{ cm}^2$

13 ϕ 25

$V_{cu} = 0.5 \sqrt{\frac{25}{1.5}} 1.0 \times 1.4 \times 1.1 = 99.41$ T

$w_c = \frac{616 \times 1.5 - 99.41}{0.9 \times 1.1} \frac{1}{4.2} = 198.31 \text{ cm}^2/\text{m}$ 41 ϕ 25

Armaduras anclajes

$w = \frac{616}{7} 1.5 \frac{1.15}{5.1} = 104.18 \text{ cm}^2$ 22 ϕ 25

Pilotes

- grandes

$w = 0.05 \times \frac{\pi}{4} 7^2 \frac{250}{1.5} \frac{1.15}{5.1} = 47.20 \text{ cm}^2$ 16 ϕ 20

- pequeños

$w = 0.05 \frac{\pi}{4} 1^2 \frac{250}{1.5} \frac{1.15}{5.1} = 11.8 \text{ cm}^2$ 4 ϕ 20

proc Viaducto sobre el rio Ebro
==========

ESFUERZOS EN LA BARRA 427 EXTREMO 2 (NUDO 453) (E2)

HIPO	AXIL 1.00	CORT. Y 1.00	CORT. Z 1.00	TORSOR 1.00	FLEC. Y 1.00	FLEC. Z 1.00	C
291	-1629.747	-915.530	0.028	0.000	-0.132	0.000	
292	-355.582	1775.942	0.955	0.000	-4.491	0.000	
293	-1623.242	-1775.942	-0.955	0.000	4.491	0.000	
294	-355.582	1775.942	0.955	0.000	-4.491	0.000	
295	-649.556	915.530	-50.015	0.000	250.720	0.000	
296	-867.276	-915.530	50.018	0.000	-250.735	0.000	
297	-758.415	0.000	0.000	0.000	0.000	0.000	
298	-758.415	0.000	0.000	0.000	0.000	0.000	
299	-1025.337	-216.530	26.028	0.000	-374.884	0.000	
300	-983.536	216.530	-26.027	0.000	374.876	0.000	
301	-758.415	0.000	0.000	0.000	0.000	0.000	
302	-758.415	0.000	0.000	0.000	0.000	0.000	
511	-2444.620	-1373.295	0.042	0.000	-0.199	0.000	
512	-104.629	2491.633	1.396	0.000	-6.567	0.000	
513	-1483.423	-2520.795	7.500	0.000	-35.290	0.000	
514	-870.388	2520.795	10.007	0.000	-47.079	0.000	
515	-535.538	1235.965	-75.018	0.000	376.059	0.000	
516	-829.611	-1235.965	75.023	0.000	-376.083	0.000	
517	-682.574	0.000	0.000	0.000	0.000	0.000	
518	-682.574	0.000	0.000	0.000	0.000	0.000	
519	-1058.786	-222.415	38.998	0.000	-549.913	0.000	
520	-1019.821	222.415	-38.996	0.000	549.901	0.000	
521	-682.574	0.000	0.000	0.000	0.000	0.000	
522	-682.574	0.000	0.000	0.000	0.000	0.000	

f_0 81 -758.42

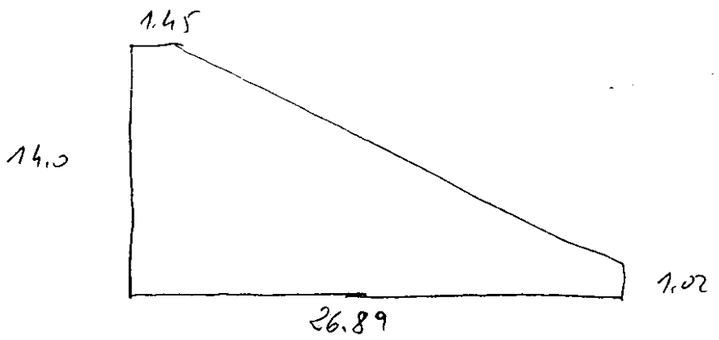
cf_0 82 -773.92

CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

HOJA ____ DE ____

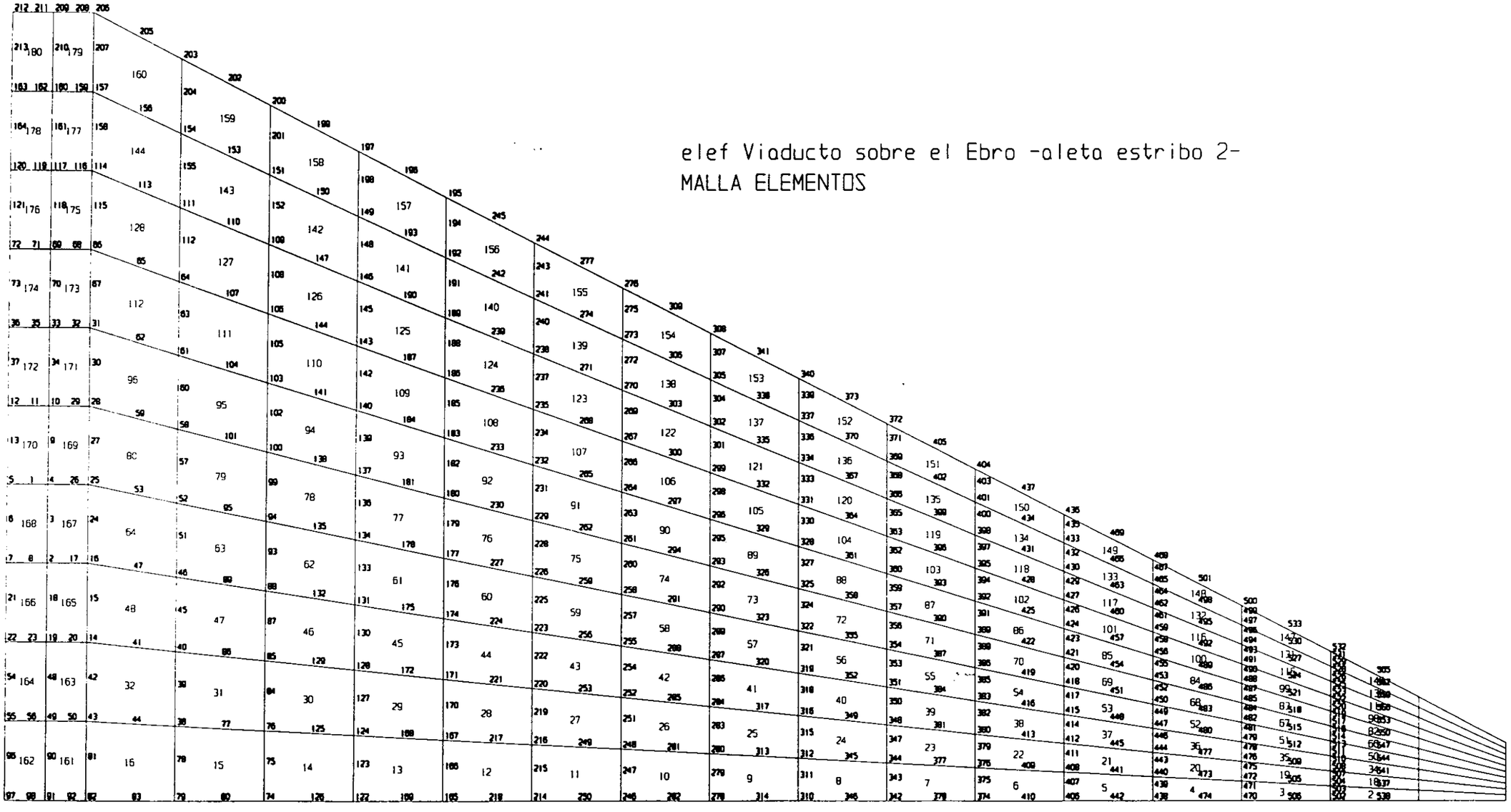
PROYECTO _____ FECHA _____

Modelo de cálculo



elemento		distancia	espesor
1, 17, 33,	145	0.795	0.8375
2,	146	2.385	0.9125
3	147	3.975	0.9875
4	148	5.565	1.0625
5	149	7.155	1.1375
6	150	8.745	1.2125
7	151	10.335	1.2875
8	152	11.925	1.3625
9	153	13.515	1.4375
10	154	15.105	1.5125
11	155	16.695	1.5875
12	156	18.285	1.6625
13	157	19.875	1.7375
14	158	21.465	1.8125
15	159	23.055	1.8875
16	160	24.645	1.9625

elef Viaducto sobre el Ebro -aleta estribo 2-
MALLA ELEMENTOS



elef Viaducto sobre el Ebro -aleta estribo 2-

NUMERO DE PUNTOS NODALES = 597

NUMERO DE ELEMENTOS = 198

NUMERO DE TIPOS DE MATERIALES= 19

DIMENSION DEL ESPACIO = 2

GRADOS DE LIBERTAD POR NODO = 2

MAXIMO NUMERO NODOS/ELEMENTO = 8

NUMERO DE HIPOTESIS DE CARGA = 1

COORDENADAS NODALES

NODO	X	Y
1	0.362	5.600
2	0.725	4.200
3	0.725	4.900
4	0.725	5.600
5	0.000	2.800
6	0.000	4.200
7	0.000	4.200
8	0.362	4.200
9	0.725	6.300
10	0.725	7.000
11	0.362	7.000
12	0.000	7.000
13	0.000	5.600
14	1.450	2.800
15	1.450	3.500
16	1.450	4.200
17	1.087	4.200
18	0.725	3.500
19	0.725	2.800
20	1.087	2.800
21	0.000	3.500
22	0.000	2.800
23	0.362	2.800
24	1.450	4.900
25	1.450	5.600
26	1.087	5.600
27	1.450	6.300
28	1.450	7.000
29	1.087	7.000
30	1.450	7.700
31	1.450	8.400
32	1.087	8.400

32	0.725	0.700
33	0.725	0.700
34	0.362	0.000
35	0.000	0.000
36	0.000	0.000
37	0.000	0.000
38	0.000	0.000
39	0.000	0.000
40	0.000	0.000
41	0.000	0.000
42	0.000	0.000
43	0.000	0.000
44	0.000	0.000
45	0.000	0.000
46	0.000	0.000
47	0.000	0.000
48	0.000	0.000
49	0.000	0.000
50	0.000	0.000
51	0.000	0.000
52	0.000	0.000
53	0.000	0.000
54	0.000	0.000
55	0.000	0.000
56	0.000	0.000
57	0.000	0.000
58	0.000	0.000
59	0.000	0.000
60	0.000	0.000
61	0.000	0.000
62	0.000	0.000
63	0.000	0.000
64	0.000	0.000
65	0.000	0.000
66	0.000	0.000
67	0.000	0.000
68	0.000	0.000
69	0.000	0.000
70	0.000	0.000
71	0.000	0.000
72	0.000	0.000
73	0.000	0.000
74	0.000	0.000
75	0.000	0.000
76	0.000	0.000
77	0.000	0.000
78	0.000	0.000
79	0.000	0.000
80	0.000	0.000
81	1.450	0.700
82	1.450	0.000
83	2.245	0.000
84	4.630	1.857
85	4.630	2.475
86	3.835	2.557
87	4.630	3.094
88	4.630	3.713
89	3.835	2.835
90	0.725	0.700

91	0.725	0.000
92	1.087	0.000
93	4.630	4.332
94	4.630	4.951
95	3.835	5.113
96	0.000	0.700
97	0.000	0.000
98	0.362	0.000
99	4.630	5.570
100	4.630	6.189
101	3.835	6.392
102	4.630	6.808
103	4.630	7.426
104	3.835	7.670
105	4.630	8.045
106	4.630	8.664
107	3.835	8.948
108	4.630	9.283
109	4.630	9.902
110	3.835	10.226
111	3.040	10.551
112	3.040	9.892
113	2.245	10.876
114	1.450	11.200
115	1.450	10.500
116	1.087	11.200
117	0.725	11.200
118	0.725	10.500
119	0.362	11.200
120	0.000	11.200
121	0.000	10.500
122	6.220	0.000
123	6.220	0.578
124	6.220	1.157
125	5.425	1.197
126	5.425	0.000
127	6.220	1.735
128	6.220	2.313
129	5.425	2.394
130	6.220	2.892
131	6.220	3.470
132	5.425	3.592
133	6.220	4.048
134	6.220	4.627
135	5.425	4.789
136	6.220	5.205
137	6.220	5.783
138	5.425	5.986
139	6.220	6.361
140	6.220	6.940
141	5.425	7.183
142	6.220	7.518
143	6.220	8.096
144	5.425	8.380
145	6.220	8.675
146	6.220	9.253
147	5.425	9.578
148	6.220	9.831

149	6.220	10.410
150	5.425	10.775
151	4.630	11.140
152	4.630	10.521
153	3.835	11.505
154	3.040	11.870
155	3.040	11.210
156	2.245	12.235
157	1.450	12.600
158	1.450	11.900
159	1.087	12.600
160	0.725	12.600
161	0.725	11.900
162	0.362	12.600
163	0.000	12.600
164	0.000	11.900
165	7.810	0.000
166	7.810	0.538
167	7.810	1.075
168	7.015	1.116
169	7.015	0.000
170	7.810	1.613
171	7.810	2.151
172	7.015	2.232
173	7.810	2.689
174	7.810	3.227
175	7.015	3.348
176	7.810	3.764
177	7.810	4.302
178	7.015	4.464
179	7.810	4.840
180	7.810	5.378
181	7.015	5.580
182	7.810	5.915
183	7.810	6.453
184	7.015	6.696
185	7.810	6.991
186	7.810	7.529
187	7.015	7.812
188	7.810	8.066
189	7.810	8.604
190	7.015	8.928
191	7.810	9.142
192	7.810	9.680
193	7.015	10.045
194	7.810	10.217
195	7.810	10.755
196	7.015	11.161
197	6.220	11.566
198	6.220	10.988
199	5.425	11.972
200	4.630	12.377
201	4.630	11.759
202	3.835	12.783
203	3.040	13.189
204	3.040	12.529
205	2.245	13.594
206	1.450	14.000

207	1.450	13.200
208	1.087	14.000
209	0.725	14.000
210	0.725	13.300
211	0.362	14.000
212	0.000	14.000
213	0.000	13.300
214	9.400	0.000
215	9.400	0.497
216	9.400	0.994
217	8.605	1.035
218	8.605	0.000
219	9.400	1.492
220	9.400	1.989
221	8.605	2.070
222	9.400	2.486
223	9.400	2.983
224	8.605	3.105
225	9.400	3.480
226	9.400	3.978
227	8.605	4.140
228	9.400	4.475
229	9.400	4.972
230	8.605	5.175
231	9.400	5.469
232	9.400	5.966
233	8.605	6.210
234	9.400	6.463
235	9.400	6.961
236	8.605	7.245
237	9.400	7.459
238	9.400	7.955
239	8.605	8.280
240	9.400	8.452
241	9.400	8.949
242	8.605	9.314
243	9.400	9.447
244	9.400	9.944
245	8.605	10.349
246	10.990	0.000
247	10.990	0.457
248	10.990	0.913
249	10.195	0.954
250	10.195	0.000
251	10.990	1.370
252	10.990	1.827
253	10.195	1.908
254	10.990	2.283
255	10.990	2.740
256	10.195	2.861
257	10.990	3.196
258	10.990	3.653
259	10.195	3.815
260	10.990	4.110
261	10.990	4.566
262	10.195	4.769
263	10.990	5.023
264	10.990	5.479

265	10.195	5.723
266	10.990	5.936
267	10.990	6.393
268	10.195	6.677
269	10.990	6.849
270	10.990	7.306
271	10.195	7.630
272	10.990	7.763
273	10.990	8.219
274	10.195	8.584
275	10.990	8.676
276	10.990	9.133
277	10.195	9.538
278	12.580	0.000
279	12.580	0.416
280	12.580	0.832
281	11.785	0.873
282	11.785	0.000
283	12.580	1.248
284	12.580	1.664
285	11.785	1.745
286	12.580	2.080
287	12.580	2.496
288	11.785	2.618
289	12.580	2.912
290	12.580	3.329
291	11.785	3.491
292	12.580	3.745
293	12.580	4.161
294	11.785	4.363
295	12.580	4.577
296	12.580	4.993
297	11.785	5.236
298	12.580	5.409
299	12.580	5.825
300	11.785	6.109
301	12.580	6.241
302	12.580	6.657
303	11.785	6.981
304	12.580	7.073
305	12.580	7.489
306	11.785	7.854
307	12.580	7.905
308	12.580	8.321
309	11.785	8.727
310	14.170	0.000
311	14.170	0.376
312	14.170	0.751
313	13.375	0.792
314	13.375	0.000
315	14.170	1.127
316	14.170	1.502
317	13.375	1.583
318	14.170	1.877
319	14.170	2.253
320	13.375	2.375
321	14.170	2.628
322	14.170	3.004

323	13.375	3.166
324	14.170	3.380
325	14.170	3.755
326	13.375	3.958
327	14.170	4.130
328	14.170	4.506
329	13.375	4.749
330	14.170	4.881
331	14.170	5.257
332	13.375	5.541
333	14.170	5.633
334	14.170	6.008
335	13.375	6.332
336	14.170	6.383
337	14.170	6.759
338	13.375	7.124
339	14.170	7.135
340	14.170	7.510
341	13.375	7.916
342	15.760	0.000
343	15.760	0.335
344	15.760	0.670
345	14.965	0.710
346	14.965	0.000
347	15.760	1.005
348	15.760	1.340
349	14.965	1.421
350	15.760	1.675
351	15.760	2.010
352	14.965	2.131
353	15.760	2.345
354	15.760	2.679
355	14.965	2.842
356	15.760	3.014
357	15.760	3.349
358	14.965	3.552
359	15.760	3.684
360	15.760	4.019
361	14.965	4.263
362	15.760	4.354
363	15.760	4.689
364	14.965	4.973
365	15.760	5.024
366	15.760	5.359
367	14.965	5.684
368	15.760	5.694
369	15.760	6.029
370	14.965	6.394
371	15.760	6.364
372	15.760	6.699
373	14.965	7.104
374	17.350	0.000
375	17.350	0.294
376	17.350	0.589
377	16.555	0.629
378	16.555	0.000
379	17.350	0.883
380	17.350	1.177

381	16.555	1.259
382	17.350	1.472
383	17.350	1.766
384	16.555	1.888
385	17.350	2.061
386	17.350	2.355
387	16.555	2.517
388	17.350	2.649
389	17.350	2.944
390	16.555	3.147
391	17.350	3.238
392	17.350	3.533
393	16.555	3.776
394	17.350	3.827
395	17.350	4.121
396	16.555	4.405
397	17.350	4.416
398	17.350	4.710
399	16.555	5.035
400	17.350	5.004
401	17.350	5.299
402	16.555	5.664
403	17.350	5.593
404	17.350	5.888
405	16.555	6.293
406	18.940	0.000
407	18.940	0.254
408	18.940	0.508
409	18.145	0.548
410	18.145	0.000
411	18.940	0.761
412	18.940	1.015
413	18.145	1.096
414	18.940	1.269
415	18.940	1.523
416	18.145	1.645
417	18.940	1.777
418	18.940	2.030
419	18.145	2.193
420	18.940	2.284
421	18.940	2.538
422	18.145	2.741
423	18.940	2.792
424	18.940	3.046
425	18.145	3.289
426	18.940	3.300
427	18.940	3.553
428	18.145	3.837
429	18.940	3.807
430	18.940	4.061
431	18.145	4.386
432	18.940	4.315
433	18.940	4.569
434	18.145	4.934
435	18.940	4.822
436	18.940	5.076
437	18.145	5.482
438	20.530	0.000

439	20.530	0.213
440	20.530	0.426
441	19.735	0.487
442	19.735	0.000
443	20.530	0.640
444	20.530	0.853
445	19.735	0.934
446	20.530	1.066
447	20.530	1.280
448	19.735	1.401
449	20.530	1.493
450	20.530	1.706
451	19.735	1.868
452	20.530	1.919
453	20.530	2.132
454	19.735	2.335
455	20.530	2.346
456	20.530	2.559
457	19.735	2.802
458	20.530	2.772
459	20.530	2.986
460	19.735	3.269
461	20.530	3.199
462	20.530	3.412
463	19.735	3.736
464	20.530	3.625
465	20.530	3.838
466	19.735	4.204
467	20.530	4.052
468	20.530	4.265
469	19.735	4.671
470	22.120	0.000
471	22.120	0.173
472	22.120	0.345
473	21.325	0.396
474	21.325	0.000
475	22.120	0.518
476	22.120	0.691
477	21.325	0.772
478	22.120	0.863
479	22.120	1.036
480	21.325	1.158
481	22.120	1.209
482	22.120	1.381
483	21.325	1.544
484	22.120	1.554
485	22.120	1.727
486	21.325	1.930
487	22.120	1.900
488	22.120	2.072
489	21.325	2.316
490	22.120	2.245
491	22.120	2.418
492	21.325	2.702
493	22.120	2.590
494	22.120	2.763
495	21.325	3.087
496	22.120	2.936

497	22.120	3.108
498	21.325	3.473
499	22.120	3.281
500	22.120	3.454
501	21.325	3.859
502	23.710	0.000
503	23.710	0.132
504	23.710	0.264
505	22.915	0.305
506	22.915	0.000
507	23.710	0.396
508	23.710	0.528
509	22.915	0.610
510	23.710	0.661
511	23.710	0.793
512	22.915	0.914
513	23.710	0.925
514	23.710	1.057
515	22.915	1.219
516	23.710	1.189
517	23.710	1.321
518	22.915	1.524
519	23.710	1.453
520	23.710	1.585
521	22.915	1.829
522	23.710	1.718
523	23.710	1.850
524	22.915	2.134
525	23.710	1.982
526	23.710	2.114
527	22.915	2.438
528	23.710	2.246
529	23.710	2.378
530	22.915	2.743
531	23.710	2.510
532	23.710	2.643
533	22.915	3.048
534	25.300	0.000
535	25.300	0.092
536	25.300	0.183
537	24.505	0.224
538	24.505	0.000
539	25.300	0.275
540	25.300	0.366
541	24.505	0.447
542	25.300	0.458
543	25.300	0.549
544	24.505	0.671
545	25.300	0.641
546	25.300	0.733
547	24.505	0.895
548	25.300	0.824
549	25.300	0.916
550	24.505	1.118
551	25.300	1.007
552	25.300	1.099
553	24.505	1.342
554	25.300	1.190

555	25.306	1.282
556	24.505	1.566
557	25.306	1.372
558	25.306	1.465
559	24.505	1.750
560	25.306	1.557
561	25.306	1.648
562	24.505	1.933
563	25.306	1.740
564	25.306	1.831
565	24.505	2.117
566	26.694	0.000
567	26.894	0.051
568	26.994	0.102
569	26.994	0.143
570	26.193	0.000
571	26.894	0.153
572	26.894	0.204
573	26.094	0.245
574	26.994	0.255
575	26.894	0.306
576	26.894	1.428
577	26.894	1.787
578	26.894	2.469
579	26.094	1.570
580	26.894	2.459
581	26.894	2.510
582	26.094	1.703
583	26.894	1.581
584	26.894	2.262
585	27.694	1.365
586	27.694	1.474
587	26.894	1.318
588	27.694	1.317
589	26.894	1.318
590	26.894	1.363
591	27.694	1.909
592	27.694	1.420
593	26.894	1.426

ELEMENTOS

ELEMENTO	MATERIAL	NODO 1	NODO 2	NODO 3	NODO 4	NODO 5	NODO 6	NODO 7	NODO 8
1	1	568	567	566	569	536	535	534	570
2	2	534	535	536	537	504	503	502	538
3	3	502	503	504	505	472	471	470	506
4	4	470	471	472	473	440	439	438	474
5	5	438	439	440	441	408	407	406	442
6	6	406	407	408	409	376	375	374	410
7	7	374	375	376	377	344	343	342	378
8	8	342	343	344	345	312	311	310	346

9	9	310	311	312	313	280	279	278	314
10	10	278	279	280	281	248	247	246	282
11	11	246	247	248	249	216	215	214	250
12	12	214	215	216	217	167	166	165	218
13	13	165	166	167	168	124	123	122	169
14	14	122	123	124	125	76	75	74	126
15	15	74	75	76	77	38	78	79	80
16	16	79	78	38	44	43	81	82	83
17	1	568	571	572	573	540	539	536	569
18	2	536	539	540	541	508	507	504	537
19	3	504	507	508	509	476	475	472	505
20	4	472	475	476	477	444	443	440	473
21	5	440	443	444	445	412	411	408	441
22	6	408	411	412	413	380	379	376	409
23	7	376	379	380	381	348	347	344	377
24	8	344	347	348	349	316	315	312	345
25	9	312	315	316	317	284	283	280	313
26	10	280	283	284	285	252	251	248	281
27	11	248	251	252	253	220	219	216	249
28	12	216	219	220	221	171	170	167	217
29	13	167	170	171	172	128	127	124	168
30	14	124	127	128	129	85	84	76	125
31	15	76	84	85	86	40	39	38	77
32	16	38	39	40	41	14	42	43	44
33	1	572	574	575	576	543	542	540	573
34	2	540	542	543	544	511	510	508	541
35	3	508	510	511	512	479	478	476	509
36	4	476	478	479	480	447	446	444	477
37	5	444	446	447	448	415	414	412	445
38	6	412	414	415	416	383	382	380	413
39	7	380	382	383	384	351	350	348	381
40	8	348	350	351	352	319	318	316	349
41	9	316	315	319	320	287	286	284	317
42	10	284	286	287	288	255	254	252	285
43	11	252	254	255	256	223	222	220	253
44	12	220	222	223	224	174	173	171	221
45	13	171	173	174	175	131	130	128	172
46	14	128	130	131	132	88	87	85	129
47	15	85	87	88	89	46	45	40	86
48	16	40	45	46	47	16	15	14	41
49	1	575	577	578	579	546	545	543	576
50	2	543	545	546	547	514	513	511	544
51	3	511	513	514	515	482	481	479	512
52	4	479	481	482	483	450	449	447	480
53	5	447	449	450	451	418	417	415	448
54	6	415	417	418	419	386	385	383	416
55	7	383	385	386	387	354	353	351	384
56	8	351	353	354	355	322	321	319	352
57	9	319	321	322	323	290	289	287	320
58	10	287	289	290	291	258	257	255	288
59	11	255	257	258	259	226	225	223	256
60	12	223	225	226	227	177	176	174	224
61	13	174	176	177	178	134	133	131	175
62	14	131	133	134	135	94	93	88	132
63	15	88	93	94	95	52	51	46	89
64	16	46	51	52	53	25	24	16	47
65	1	578	580	581	582	549	548	546	579
66	2	546	548	549	550	517	516	514	547

67	3	514	516	517	518	485	484	482	515
68	4	482	484	485	486	453	452	450	483
69	5	450	452	453	454	421	420	418	451
70	6	418	420	421	422	389	388	386	419
71	7	386	388	389	390	357	356	354	387
72	8	354	356	357	358	325	324	322	355
73	9	322	324	325	326	293	292	290	323
74	10	290	292	293	294	261	260	258	291
75	11	258	260	261	262	229	228	226	259
76	12	226	228	229	230	180	179	177	227
77	13	177	179	180	181	137	136	134	178
78	14	134	136	137	138	100	99	94	135
79	15	94	99	100	101	58	57	52	95
80	16	52	57	58	59	28	27	25	53
81	1	591	593	594	595	552	551	549	592
82	2	549	551	552	553	520	519	517	550
83	3	517	519	520	521	488	487	485	518
84	4	485	487	488	489	156	455	453	486
85	5	453	455	456	457	424	423	421	454
86	6	421	423	424	425	392	391	389	422
87	7	389	391	392	393	360	359	357	390
88	8	357	359	360	361	328	327	325	358
89	9	325	327	328	329	296	295	293	326
90	10	293	295	296	297	264	263	261	294
91	11	261	263	264	265	232	231	229	262
92	12	229	231	232	233	183	182	180	230
93	13	180	182	183	184	140	139	137	181
94	14	137	139	140	141	103	102	100	138
95	15	100	102	103	104	61	60	58	101
96	16	58	60	61	62	31	30	28	59
97	1	594	596	597	598	555	554	552	595
98	2	552	554	555	556	523	522	520	553
99	3	520	522	523	524	491	490	488	521
100	4	488	490	491	492	459	458	456	489
101	5	456	458	459	460	427	426	424	457
102	6	424	426	427	428	395	394	392	425
103	7	392	394	395	396	363	362	360	393
104	8	360	362	363	364	331	330	328	361
105	9	328	330	331	332	299	298	296	329
106	10	296	298	299	300	267	266	264	297
107	11	264	266	267	268	235	234	232	265
108	12	232	234	235	236	186	185	183	233
109	13	183	185	186	187	143	142	140	184
110	14	140	142	143	144	106	105	103	141
111	15	103	105	106	107	64	63	61	104
112	16	61	63	64	65	66	67	31	62
113	1	587	589	590	591	558	557	555	588
114	2	555	557	558	559	526	525	523	556
115	3	523	525	526	527	494	493	491	524
116	4	491	493	494	495	462	461	459	492
117	5	459	461	462	463	430	429	427	460
118	6	427	429	430	431	398	397	395	428
119	7	395	397	398	399	366	365	363	396
120	8	363	365	366	367	334	333	331	364
121	9	331	333	334	335	302	301	299	332
122	10	299	301	302	303	270	269	267	300
123	11	267	269	270	271	238	237	235	268
124	12	235	237	238	239	189	188	186	236

125	17	144	158	189	190	146	145	143	187
126	14	143	145	146	147	109	108	106	144
127	15	110	108	109	110	111	112	64	107
128	16	64	112	111	112	114	115	66	65
129	1	590	592	592	594	561	560	558	591
130	2	558	560	561	562	529	528	526	559
131	3	526	528	529	530	497	496	494	527
132	4	494	496	497	498	465	464	462	495
133	5	462	464	465	466	433	432	430	463
134	6	430	432	433	434	401	400	398	431
135	7	398	400	401	402	369	368	366	399
136	8	366	368	369	370	337	336	334	367
137	9	334	336	337	338	305	304	302	335
138	10	302	304	305	306	273	272	270	303
139	11	270	272	273	274	241	240	238	271
140	12	238	240	241	242	192	191	189	239
141	13	191	191	192	193	149	148	146	190
142	14	148	148	149	150	151	152	109	147
143	15	107	158	151	153	154	155	111	110
144	16	111	105	154	156	157	158	114	113
145	1	593	595	596	597	564	563	561	594
146	2	561	563	564	565	532	531	529	562
147	3	529	531	532	533	500	499	497	530
148	4	497	499	500	501	468	467	465	498
149	5	465	467	468	469	436	435	433	466
150	6	433	435	436	437	404	403	401	434
151	7	401	403	404	405	372	371	369	402
152	8	369	371	372	373	340	339	337	370
153	9	337	339	340	341	308	307	305	338
154	10	305	307	308	309	276	275	273	306
155	11	273	275	276	277	244	243	241	274
156	12	241	243	244	245	195	194	192	242
157	13	194	194	195	196	197	198	149	192
158	14	147	147	197	199	200	201	151	150
159	15	109	107	200	202	203	204	154	153
160	16	113	111	203	205	206	207	157	156
161	1	92	94	93	50	49	90	91	92
162	2	91	93	49	56	55	96	97	98
163	3	43	45	14	20	19	48	49	50
164	4	47	47	19	23	22	54	55	56
165	5	15	15	16	17	2	18	19	20
166	6	19	19	2	8	7	21	22	23
167	7	16	24	25	26	4	3	2	17
168	8	2	3	4	1	5	6	7	8
169	9	25	27	28	29	10	9	4	26
170	10	4	9	10	11	12	13	5	1
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172	12	10	34	33	35	36	37	12	11
173	13	31	67	66	68	69	70	33	32
174	14	33	70	69	71	72	73	36	35
175	15	66	115	114	116	117	118	69	68
176	16	69	118	117	119	120	121	72	71
177	17	114	158	157	159	160	161	117	116
178	17	117	161	160	162	163	164	120	119
179	17	157	207	206	208	209	210	160	159
180	17	160	210	209	211	212	213	163	162
181	18	96	0	0	0	0	0	0	0
182	18	54	0	0	0	0	0	0	0

183	18	21	0	0	0	0	0	0	0
184	18	6	0	0	0	0	0	0	0
185	18	13	0	0	0	0	0	0	0
186	18	37	0	0	0	0	0	0	0
187	18	73	0	0	0	0	0	0	0
188	18	121	0	0	0	0	0	0	0
189	18	164	0	0	0	0	0	0	0
190	19	96	0	0	0	0	0	0	0
191	19	54	0	0	0	0	0	0	0
192	19	21	0	0	0	0	0	0	0
193	19	6	0	0	0	0	0	0	0
194	19	13	0	0	0	0	0	0	0
195	19	37	0	0	0	0	0	0	0
196	19	73	0	0	0	0	0	0	0
197	19	121	0	0	0	0	0	0	0
198	19	164	0	0	0	0	0	0	0

PROPIEDADES DE LOS MATERIALES

MATERIAL 1 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.83750E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 2 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.91250E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 3 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.98750E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 4 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.10625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 5 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.11375E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 6 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.12125E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 7 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.12875E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 8 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.13625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 9 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000

```
    ESPESOR        0.14375E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


 MATERIAL    10     TIPO ELEMENTO   4

    MODUL.E        0.30000E+07
    COEF.POISSON   0.20000
    ESPESOR        0.15125E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


 MATERIAL    11     TIPO ELEMENTO   4

    MODUL.E        0.30000E+07
    COEF.POISSON   0.20000
    ESPESOR        0.15875E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


 MATERIAL    12     TIPO ELEMENTO   4

    MODUL.E        0.30000E+07
    COEF.POISSON   0.20000
    ESPESOR        0.16625E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


 MATERIAL    13     TIPO ELEMENTO   4

    MODUL.E        0.30000E+07
    COEF.POISSON   0.20000
    ESPESOR        0.17375E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
    ESTADO DE TENSION PLANA


 MATERIAL    14     TIPO ELEMENTO   4

    MODUL.E        0.30000E+07
    COEF.POISSON   0.20000
    ESPESOR        0.18125E+01
    PUNTOS GAUSS   4
    COEF.DILAT.TERM.     0.000000
```

ESTADO DE TENSION PLANA

MATERIAL 15 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.13875E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 16 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.19625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 17 TIPO ELEMENTO 4

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.24000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000
ESTADO DE TENSION PLANA

MATERIAL 18 TIPO ELEMENTO 9
MUELLE A CIMENTACION

RIGIDEZ 5000.00
DIRECCION 0.0000 1.0000 0.0000

MATERIAL 19 TIPO ELEMENTO 9
MUELLE A CIMENTACION

RIGIDEZ 6000.00
DIRECCION 1.0000 0.0000 0.0000

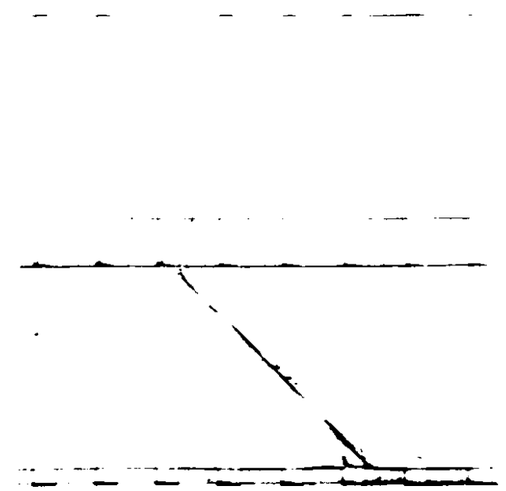
CONDICIONES BORDE

NODO NODO 1 NODO 2

HIPOTESIS DE CARGA N. 1

hipo 1 peso propio

.U.ELEM. (/UD. ESPESOR)	1	CARGAS	0.000	-2.500
.U.ELEM. (/UD. ESPESOR)	2	CARGAS	0.000	-2.500
.U.ELEM. (/UD. ESPESOR)	3	CARGAS	0.000	-2.500
.U.ELEM. (/UD. ESPESOR)	4	CARGAS	0.000	-2.500
.U.ELEM. (/UD. ESPESOR)	5	CARGAS	0.000	-2.500
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.U.ELEM.	(/UD. ESPESOR)	125	CARGAS	0.000	-2.500
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.U.ELEM.	(/UD. ESPESOR)	127	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	128	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	129	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	130	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	131	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	132	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	133	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	134	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	135	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	136	CARGAS	0.000	-2.500
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.U.ELEM.	(/UD. ESPESOR)	138	CARGAS	0.000	-2.500
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.U.ELEM.	(/UD. ESPESOR)	140	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	141	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	142	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	143	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	144	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	145	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	146	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	147	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	148	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	149	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	150	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	151	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	152	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	153	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	154	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	155	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	156	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	157	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	158	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	159	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	160	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	161	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	162	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	163	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	164	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	165	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	166	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	167	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	168	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	169	CARGAS	0.000	-2.500
.U.ELEM.	(/UD. ESPESOR)	170	CARGAS	0.000	-2.500

C.U.ELEM. (/UD. ESPESOR)	171	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	172	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	173	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	174	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	175	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	176	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	177	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	178	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	179	CARGAS	0.000	-2.500
C.U.ELEM. (/UD. ESPESOR)	180	CARGAS	0.000	-2.500

RESULTANTE Y MOMENTO DE LAS CARGAS EXTERIORES

RESULTANTE
0.00 -858.42

MOMENTO EN EL ORIGEN
-7193.66

elef Viaducto sobre el Ebro -aleta estribo 2-

hipo 1 peso propio hP@(

HIPOTESIS NUMERO 1

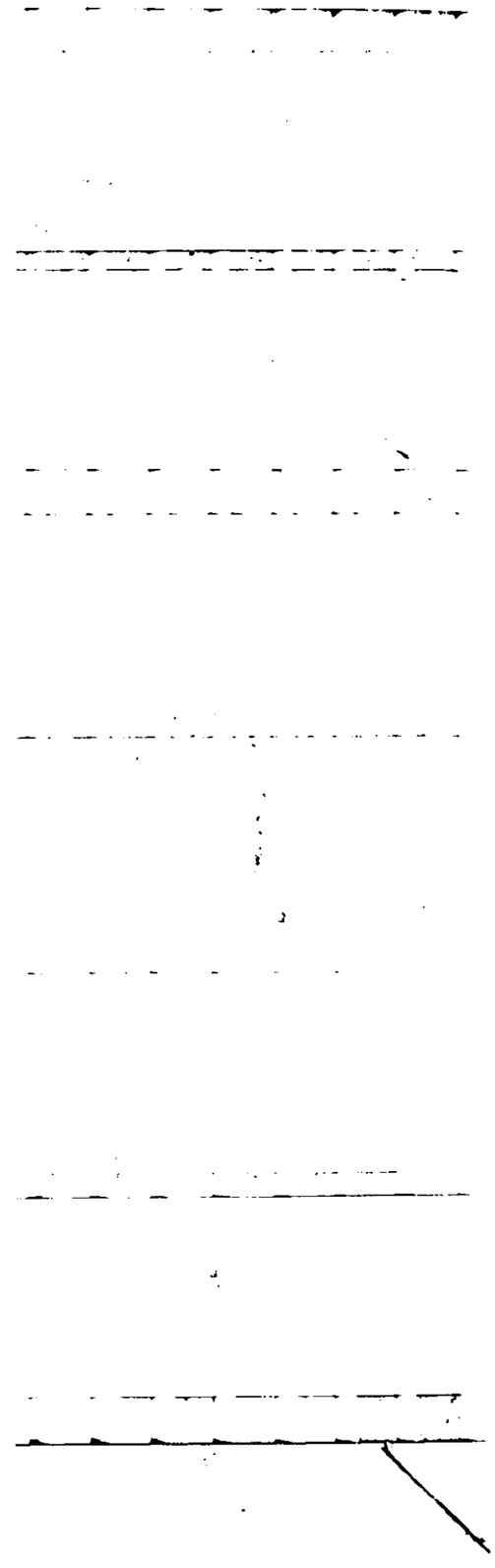
DESPLAZAMIENTOS DE LOS NODOS

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3	-0.013541	-0.026056
4	-0.006919	-0.026056
5	-0.006923	-0.018878
6	-0.013830	-0.018866
7	-0.020767	-0.018867
8	-0.020762	-0.022453
9	-0.000002	-0.026062
10	0.006914	-0.026061
11	0.006915	-0.022467
12	0.006916	-0.018884
13	-0.000003	-0.018874
14	-0.034633	-0.033245
15	-0.027700	-0.033244
16	-0.020772	-0.033246
17	-0.020765	-0.029642
18	-0.027689	-0.026049
19	-0.034609	-0.026043
20	-0.034621	-0.029639
21	-0.027664	-0.018853
22	-0.034624	-0.018858
23	-0.034616	-0.022443
24	-0.013846	-0.033247
25	-0.006923	-0.033249
26	-0.006921	-0.029647
27	-0.000002	-0.033250
28	0.006919	-0.033253
29	0.006917	-0.029651
30	0.013839	-0.033254
31	0.020761	-0.033257
32	0.020754	-0.029655
33	0.020747	-0.026063
34	0.013833	-0.026065
35	0.020750	-0.022468
36	0.020753	-0.018885
37	0.013821	-0.018878
38	-0.049360	-0.049046
39	-0.042820	-0.049042
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42	-0.041568	-0.033245

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58	0.002910	-0.049033
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60	0.009442	-0.049035
61	0.015964	-0.049037
62	0.018369	-0.041146
63	0.022497	-0.049041
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65	0.031817	-0.041154
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67	0.037683	-0.033259
68	0.034598	-0.029658
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233	-0.000879	-0.104346
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393	-0.025073	-0.183577
394	-0.024563	-0.191513
395	-0.021631	-0.191512
396	-0.018803	-0.183575
397	-0.018689	-0.191512
398	-0.015758	-0.191511
399	-0.012524	-0.183574
400	-0.012826	-0.191511
401	-0.009685	-0.191511
402	-0.006255	-0.183573
403	-0.006954	-0.191510
404	-0.004013	-0.191510
405	0.000014	-0.183573
406	-0.062765	-0.207401
407	-0.060227	-0.207401
408	-0.057690	-0.207400
409	-0.057284	-0.199459
410	-0.062756	-0.199460
411	-0.055163	-0.207399
412	-0.052627	-0.207399
413	-0.051813	-0.199458
414	-0.050091	-0.207398
415	-0.047554	-0.207398
416	-0.046333	-0.199457
417	-0.045018	-0.207397
418	-0.042493	-0.207397
419	-0.040863	-0.199455
420	-0.039957	-0.207396
421	-0.037421	-0.207396
422	-0.035395	-0.199454
423	-0.034986	-0.207395
424	-0.032351	-0.207395
425	-0.029927	-0.199453
426	-0.029816	-0.207394
427	-0.027391	-0.207394
428	-0.024460	-0.199452
429	-0.024756	-0.207394
430	-0.022221	-0.207393
431	-0.018983	-0.199451
432	-0.019687	-0.207393
433	-0.017152	-0.207393
434	-0.014517	-0.199451
435	-0.014628	-0.207393
436	-0.012093	-0.207392
437	-0.008052	-0.199450
438	-0.062779	-0.223289
439	-0.060650	-0.223289
440	-0.058522	-0.223288
441	-0.058106	-0.215343
442	-0.062772	-0.215344
443	-0.056383	-0.223288
444	-0.054255	-0.223287
445	-0.053441	-0.215342
446	-0.052126	-0.223287
447	-0.049988	-0.223287
448	-0.048776	-0.215341

449	-0.047860	-0.223287
450	-0.045732	-0.223286
451	-0.044113	-0.215340
452	-0.043604	-0.223286
453	-0.041476	-0.223286
454	-0.039449	-0.215340
455	-0.038339	-0.223285
456	-0.037211	-0.223285
457	-0.034785	-0.215339
458	-0.035084	-0.223285
459	-0.032946	-0.223285
460	-0.030123	-0.215338
461	-0.030819	-0.223284
462	-0.028692	-0.223284
463	-0.025461	-0.215338
464	-0.026565	-0.223284
465	-0.024437	-0.223284
466	-0.020789	-0.215337
467	-0.022300	-0.223284
468	-0.020173	-0.223284
469	-0.016127	-0.215337
470	-0.062791	-0.239186
471	-0.061061	-0.239186
472	-0.059341	-0.239186
473	-0.058927	-0.231236
474	-0.057786	-0.231236
475	-0.057611	-0.239185
476	-0.055881	-0.239185
477	-0.055068	-0.231235
478	-0.054162	-0.239185
479	-0.052432	-0.239185
480	-0.051210	-0.231235
481	-0.050702	-0.239185
482	-0.048983	-0.239184
483	-0.047352	-0.231234
484	-0.047253	-0.239184
485	-0.045524	-0.239184
486	-0.043495	-0.231234
487	-0.043795	-0.239184
488	-0.042076	-0.239184
489	-0.039638	-0.231234
490	-0.040346	-0.239184
491	-0.038617	-0.239183
492	-0.036781	-0.231233
493	-0.036898	-0.239183
494	-0.035169	-0.239183
495	-0.031934	-0.231233
496	-0.033440	-0.239183
497	-0.031721	-0.239183
498	-0.028078	-0.231233
499	-0.029992	-0.239183
500	-0.028263	-0.239183
501	-0.024222	-0.231232
502	-0.062799	-0.255093
503	-0.061478	-0.255093
504	-0.060158	-0.255093
505	-0.059745	-0.247138
506	-0.062796	-0.247139

507	-0.059837	-0.255093
508	-0.057917	-0.255093
509	-0.056694	-0.247138
510	-0.054111	-0.255093
511	-0.054868	-0.255093
512	-0.057654	-0.247138
513	-0.053545	-0.255092
514	-0.052428	-0.255092
515	-0.050614	-0.247137
516	-0.050105	-0.255092
517	-0.049584	-0.255092
518	-0.047554	-0.247137
519	-0.043864	-0.255092
520	-0.041944	-0.255092
521	-0.044504	-0.247137
522	-0.048014	-0.255091
523	-0.044894	-0.255091
524	-0.041455	-0.247136
525	-0.043973	-0.255091
526	-0.044453	-0.255091
527	-0.039413	-0.247136
528	-0.040337	-0.255091
529	-0.043012	-0.255091
530	-0.042248	-0.247136
531	-0.037195	-0.255091
532	-0.038309	-0.255091
533	-0.038716	-0.247133
534	-0.036411	-0.271003
535	-0.036191	-0.271003
536	-0.036477	-0.271003
537	-0.038384	-0.263048
538	-0.038181	-0.271004
539	-0.037361	-0.271004
540	-0.036139	-0.271004
541	-0.035737	-0.263048
542	-0.037313	-0.271004
543	-0.037503	-0.271004
544	-0.036097	-0.263048
545	-0.037381	-0.271004
546	-0.035967	-0.271003
547	-0.037646	-0.263048
548	-0.036387	-0.271003
549	-0.035837	-0.271004
550	-0.035118	-0.263047
551	-0.036726	-0.271004
552	-0.035806	-0.271003
553	-0.049374	-0.263047
554	-0.050895	-0.271003
555	-0.049075	-0.271003
556	-0.047134	-0.263047
557	-0.049064	-0.271003
558	-0.049144	-0.271003
559	-0.044893	-0.263047
560	-0.047223	-0.271003
561	-0.046313	-0.271003
562	-0.042662	-0.263047
563	-0.045392	-0.271003
564	-0.044482	-0.271003

565	-0.040421	-0.263047
566	-0.062799	-0.286909
567	-0.062289	-0.286909
568	-0.061779	-0.286910
569	-0.061370	-0.278956
570	-0.062800	-0.278958
571	-0.061269	-0.286909
572	-0.060759	-0.286910
573	-0.059949	-0.278958
574	-0.060249	-0.286910
575	-0.059739	-0.286910
576	-0.058519	-0.278957
577	-0.059229	-0.286910
578	-0.058719	-0.286910
579	-0.057098	-0.278958
580	-0.058208	-0.286910
581	-0.057698	-0.286910
582	-0.056668	-0.278958
583	-0.057188	-0.286910
584	-0.056678	-0.286910
585	-0.054847	-0.278958
586	-0.056168	-0.286910
587	-0.055658	-0.286909
588	-0.052816	-0.278958
589	-0.055147	-0.286910
590	-0.054637	-0.286910
591	-0.051386	-0.278959
592	-0.054127	-0.286909
593	-0.053617	-0.286909
594	-0.049965	-0.278958
595	-0.053107	-0.286909
596	-0.052597	-0.286909
597	-0.048834	-0.278958

TENSIONES EN ELEMENTOS

ELEM.	P.	X	Y	TX	TY	TXY	TZ	ALFA	T1	T2
1	1	26.55	0.03	3.8	-1.7	0.1	0.0	1.16	3.8	-1.7
1	2	26.55	0.09	1.8	-2.1	0.6	0.0	8.87	1.9	-2.2
1	3	25.64	0.13	2.2	1.9	-0.8	0.0	-38.55	2.9	1.2
1	4	25.64	0.04	2.9	2.4	-0.3	0.0	-83.91	3.0	2.3
2	1	24.96	0.04	-0.6	0.1	0.0	0.0	90.01	0.1	-0.6
2	2	24.96	0.16	-0.9	-0.7	-0.7	0.0	-48.39	-0.1	-1.6
2	3	24.05	0.20	-6.6	0.7	-1.7	0.0	-77.44	1.0	-7.0
2	4	24.05	0.05	-6.7	0.5	-0.5	0.0	-86.29	0.5	-6.7
3	1	23.37	0.06	-11.0	0.7	-0.4	0.0	-88.09	0.7	-11.1
3	2	23.37	0.22	-9.6	0.9	-1.2	0.0	-83.75	1.1	-9.8
3	3	22.46	0.26	-15.4	0.0	-1.9	0.0	-83.06	0.2	-15.6
3	4	22.46	0.07	-17.4	-0.3	-0.8	0.0	-87.46	-0.2	-17.5
4	1	21.78	0.08	-19.8	0.2	0.1	0.0	89.85	0.2	-19.8
4	2	21.78	0.29	-17.1	0.7	-0.9	0.0	-86.96	0.7	-17.1
4	3	20.87	0.32	-20.6	1.3	-1.7	0.0	-85.68	1.5	-20.7
4	4	20.87	0.09	-23.2	-0.1	-0.5	0.0	-88.81	-0.1	-23.2
5	1	20.19	0.09	-25.0	0.3	-0.6	0.0	-88.74	0.3	-25.0
5	2	20.19	0.35	-21.9	1.2	-1.5	0.0	-86.35	1.3	-22.0
5	3	19.28	0.39	-25.7	0.8	-1.8	0.0	-86.14	1.0	-25.9

5	4	19.37	0.10	-28.9	-0.1	-0.4	0.0	-89.19	0.1	28.9
6	1	18.10	0.11	-30.4	0.5	-0.8	0.0	-88.56	0.5	-30.6
6	2	18.09	0.41	-27.0	1.3	-2.3	0.0	-87.46	1.5	-27.1
6	3	17.89	0.45	-30.9	0.9	-3.1	0.0	-86.26	1.0	-31.0
6	4	17.89	0.12	-35.0	0.3	-0.5	0.0	-89.32	0.3	-35.0
7	1	17.61	0.13	-36.1	0.5	-0.8	0.0	-89.78	0.5	-36.1
7	2	17.61	0.48	-32.0	1.3	-2.5	0.0	-85.67	1.5	-32.2
7	3	16.10	0.51	-36.0	1.3	-2.5	0.0	-86.17	1.5	-36.2
7	4	16.10	0.14	-40.8	0.4	-0.6	0.0	-89.16	0.4	-40.8
8	1	15.42	0.15	-41.8	0.4	-0.9	0.0	-88.95	0.4	-41.8
8	2	15.42	0.54	-37.0	1.5	-2.8	0.0	-85.85	1.7	-37.2
8	3	14.51	0.58	-41.1	1.2	-3.0	0.0	-84.93	1.4	-41.3
8	4	14.51	0.16	-46.7	0.2	-0.8	0.0	-89.02	0.2	-46.7
9	1	13.83	0.16	-47.4	0.5	-0.7	0.0	-89.13	0.5	-47.4
9	2	13.83	0.61	-41.7	1.7	-2.9	0.0	-86.26	1.9	-41.9
9	3	12.92	0.64	-45.6	1.4	-3.1	0.0	-84.25	1.6	-45.8
9	4	12.92	0.17	-51.7	0.3	-0.8	0.0	-89.10	0.3	-51.7
10	1	12.24	0.18	-52.2	0.6	-0.9	0.0	-89.04	0.6	-52.2
10	2	12.24	0.67	-46.0	1.8	-3.0	0.0	-86.43	1.9	-46.2
10	3	11.32	0.71	-49.7	1.6	-3.3	0.0	-86.31	1.9	-49.9
10	4	11.32	0.19	-56.2	0.3	-0.9	0.0	-89.10	0.3	-56.3
11	1	10.65	0.20	-56.6	0.5	-0.9	0.0	-89.12	0.5	-56.6
11	2	10.65	0.72	-50.0	2.0	-3.3	0.0	-86.40	2.2	-50.2
11	3	9.74	0.77	-53.7	1.8	-3.5	0.0	-86.40	2.0	-53.9
11	4	9.74	0.21	-60.5	0.4	-0.9	0.0	-89.11	0.4	-60.5
12	1	9.06	0.21	-60.7	0.7	-1.0	0.0	-89.10	0.7	-60.7
12	2	9.06	0.80	-54.0	2.2	-3.6	0.0	-86.37	2.4	-54.2
12	3	8.15	0.83	-57.9	1.9	-4.0	0.0	-86.23	2.2	-58.1
12	4	8.15	0.28	-64.8	0.4	-1.0	0.0	-89.10	0.4	-64.9
13	1	7.47	0.33	-65.1	0.7	-1.0	0.0	-89.10	0.7	-65.1
13	2	7.47	1.06	-58.2	2.2	-4.1	0.0	-86.15	2.4	-58.5
13	3	6.81	1.09	-62.4	1.9	-4.4	0.0	-86.09	2.6	-62.7
13	4	6.81	0.34	-69.3	0.5	-1.2	0.0	-89.01	0.5	-69.3
14	1	6.31	0.35	-69.4	0.9	-1.1	0.0	-89.10	0.9	-69.4
14	2	6.31	1.13	-63.1	2.5	-4.5	0.0	-86.06	2.8	-63.4
14	3	5.91	1.16	-68.9	2.4	-5.2	0.0	-84.81	2.8	-69.4
14	4	5.91	0.36	-73.7	0.3	-0.9	0.0	-89.27	0.3	-73.7
15	1	5.61	0.37	-74.0	0.5	-1.3	0.0	-89.02	0.5	-74.0
15	2	5.61	0.79	-68.6	2.4	-5.0	0.0	-85.99	2.8	-69.0
15	3	5.36	1.03	-74.8	1.9	-4.5	0.0	-86.69	2.2	-75.1
15	4	5.36	0.37	-77.8	1.5	-1.6	0.0	-88.87	1.5	-77.9
16	1	5.17	0.39	-76.4	2.5	0.1	0.0	99.90	2.5	-76.4
16	2	5.17	1.05	-78.3	4.3	-5.1	0.0	-86.48	4.6	-78.6
16	3	5.04	1.09	-90.0	3.9	-10.1	0.0	-83.96	4.9	-91.0
16	4	5.04	0.29	-79.2	-3.2	1.6	0.0	86.84	-3.2	-79.2
17	1	26.55	0.14	1.1	-1.2	0.8	0.0	16.85	1.4	-1.4
17	2	26.55	0.21	0.5	-1.3	1.0	0.0	23.35	0.9	-1.7
17	3	25.64	0.30	1.6	2.8	-0.2	0.0	-79.16	2.9	1.6
17	4	25.64	0.20	2.0	2.9	-0.9	0.0	-58.06	3.5	1.4
18	1	24.96	0.24	-1.0	-1.1	-1.1	0.0	-44.28	0.0	-2.2
18	2	24.96	0.36	-1.3	-0.4	-2.4	0.0	-50.15	1.6	-3.3
18	3	24.05	0.44	-5.3	2.3	-2.4	0.0	-73.88	3.0	-6.0
18	4	24.05	0.30	-5.9	2.6	-2.1	0.0	-76.91	3.1	-6.4
19	1	23.37	0.34	-8.9	0.5	-2.1	0.0	-78.01	1.0	-9.4
19	2	23.37	0.50	-7.9	0.2	-3.2	0.0	-70.95	1.3	-9.0
19	3	22.46	0.59	-11.6	1.6	-3.7	0.0	-75.44	2.6	-12.6
19	4	22.46	0.40	-13.8	0.8	-2.7	0.0	-79.70	1.3	-14.3
20	1	21.78	0.44	-15.3	0.3	-1.5	0.0	-84.58	0.5	-15.5

[illegible]	[illegible]	21.78	0.65	-13.0	1.2	-2.3	0.0	-80.87	1.5	-13.4
[illegible]	[illegible]	20.97	0.73	-16.1	1.1	-3.5	0.0	-79.77	1.9	-16.8
[illegible]	[illegible]	20.97	0.50	-18.8	1.1	-2.4	0.0	-83.27	1.1	-19.0
[illegible]	[illegible]	[illegible]	0.94	-19.8	1.4	-2.4	0.0	-84.72	1.7	-20.1
[illegible]	[illegible]	20.19	0.79	-17.0	1.3	-3.3	0.0	-80.16	1.8	-17.5
[illegible]	[illegible]	19.29	0.88	-20.1	2.3	-4.2	0.0	-79.63	3.1	-20.9
[illegible]	[illegible]	19.28	0.59	-23.3	1.7	-2.8	0.0	-83.69	2.0	-23.6
[illegible]	[illegible]	[illegible]	0.64	-24.0	2.1	-3.3	0.0	-84.04	2.5	-24.7
[illegible]	[illegible]	18.60	0.94	-20.7	2.8	-4.5	0.0	-79.66	3.6	-21.8
[illegible]	[illegible]	17.69	1.02	-23.9	2.5	-5.0	0.0	-79.69	3.4	-24.9
[illegible]	[illegible]	[illegible]	0.69	-27.9	1.7	-3.4	0.0	-83.68	2.1	-28.3
[illegible]	[illegible]	[illegible]	0.73	-28.9	2.1	-3.7	0.0	-84.30	2.6	-29.4
[illegible]	[illegible]	17.60	1.08	-24.7	3.1	-5.2	0.0	-79.80	4.0	-25.6
[illegible]	[illegible]	16.10	1.17	-27.8	2.8	-5.8	0.0	-79.69	3.9	-28.8
[illegible]	[illegible]	16.10	0.79	-32.6	1.9	-3.9	0.0	-83.61	2.3	-33.0
[illegible]	[illegible]	15.48	0.83	-33.4	2.2	-4.2	0.0	-84.35	2.7	-33.9
[illegible]	[illegible]	15.42	1.23	-28.5	3.0	-6.0	0.0	-79.52	4.1	-29.6
[illegible]	[illegible]	14.51	1.31	-31.6	2.9	-6.6	0.0	-79.54	4.1	-32.8
[illegible]	[illegible]	[illegible]	0.89	-37.0	2.0	-4.6	0.0	-83.43	2.6	-37.5
[illegible]	[illegible]	[illegible]	0.92	-37.6	2.4	-4.3	0.0	-83.87	2.9	-38.1
[illegible]	[illegible]	13.82	1.37	-32.0	3.4	-6.3	0.0	-80.16	4.5	-33.1
[illegible]	[illegible]	12.92	1.46	-35.1	3.2	-6.8	0.0	-80.16	4.4	-36.2
[illegible]	[illegible]	12.92	0.99	-41.1	2.1	-4.8	0.0	-83.78	2.6	-41.6
[illegible]	[illegible]	[illegible]	1.02	-41.5	2.5	-4.6	0.0	-84.08	3.0	-42.0
[illegible]	[illegible]	[illegible]	1.38	-35.4	3.8	-6.8	0.0	-80.41	4.9	-36.6
[illegible]	[illegible]	[illegible]	[illegible]	-38.4	3.7	-7.4	0.0	-80.37	5.0	-39.6
[illegible]	[illegible]	[illegible]	[illegible]	-44.9	2.5	-5.0	0.0	-84.01	3.1	-45.5
[illegible]	[illegible]	[illegible]	[illegible]	-45.2	2.9	-5.0	0.0	-84.13	3.4	-45.9
[illegible]	[illegible]	[illegible]	[illegible]	-38.7	4.0	-7.4	0.0	-80.50	5.0	-39.9
[illegible]	[illegible]	[illegible]	[illegible]	-41.8	4.1	-8.1	0.0	-80.32	5.4	-43.1
[illegible]	[illegible]	[illegible]	[illegible]	-48.6	2.8	-5.4	0.0	-84.05	3.3	-49.3
[illegible]	[illegible]	[illegible]	[illegible]	-49.0	3.1	-5.6	0.0	-83.94	3.7	-49.8
[illegible]	[illegible]	[illegible]	[illegible]	-45.6	4.0	-9.1	0.0	-79.88	5.7	-47.1
[illegible]	[illegible]	[illegible]	[illegible]	52.7	2.9	-6.1	0.0	-83.81	3.8	57.2
[illegible]	[illegible]	[illegible]	[illegible]	-53.8	3.2	-6.3	0.0	-83.73	3.9	-57.6
[illegible]	[illegible]	[illegible]	[illegible]	46.0	4.4	-9.5	0.0	-79.78	6.1	47.7
[illegible]	[illegible]	[illegible]	[illegible]	-49.9	4.2	-10.7	0.0	-79.24	6.6	-52.1
[illegible]	[illegible]	[illegible]	[illegible]	57.3	2.9	-7.1	0.0	-83.37	3.7	61.2
[illegible]	[illegible]	[illegible]	[illegible]	-59.1	3.4	-7.3	0.0	-83.32	4.3	-59.8
[illegible]	[illegible]	[illegible]	[illegible]	51.0	4.5	-11.3	0.0	-78.92	6.7	53.2
[illegible]	[illegible]	[illegible]	[illegible]	-56.1	4.1	-13.2	0.0	-78.14	6.9	-59.9
[illegible]	[illegible]	[illegible]	[illegible]	63.2	3.5	-8.2	0.0	-83.10	4.1	64.3
[illegible]	[illegible]	[illegible]	[illegible]	-65.1	3.8	-8.5	0.0	-84.06	4.8	-66.2
[illegible]	[illegible]	[illegible]	[illegible]	58.8	4.6	-14.1	0.0	-77.87	7.6	61.3
[illegible]	[illegible]	[illegible]	[illegible]	-65.0	4.5	-16.9	0.0	-77.04	9.4	-69.9
[illegible]	[illegible]	[illegible]	[illegible]	72.4	3.0	-10.7	0.0	-88.10	4.5	73.9
[illegible]	[illegible]	[illegible]	[illegible]	-76.0	4.3	-12.0	0.0	-81.67	6.1	-77.7
[illegible]	[illegible]	[illegible]	[illegible]	69.1	2.2	-20.8	0.0	-74.90	7.8	74.7
[illegible]	[illegible]	[illegible]	[illegible]	-77.3	-10.0	-30.3	0.0	-69.00	1.6	-88.9
[illegible]	[illegible]	[illegible]	[illegible]	89.0	0.8	-16.5	0.0	-79.90	3.7	91.9
33	1	26.95	0.26	0.4	-2.8	1.0	0.0	16.29	0.7	-3.1
33	2	26.55	0.33	1.0	-3.4	1.0	0.0	11.89	1.2	-3.6
33	3	25.64	0.46	0.0	1.1	-0.2	0.0	-78.54	1.1	0.0
33	4	25.64	0.37	1.0	2.3	-0.5	0.0	-71.57	2.5	0.8
34	1	24.96	0.44	-1.0	1.6	-2.6	0.0	-58.37	3.2	-2.6
34	2	24.96	0.56	-1.3	0.5	-3.3	0.0	-52.47	3.0	-3.9
34	3	24.05	0.69	-4.3	0.9	-3.3	0.0	-64.28	2.5	-5.9

34	4	24.05	0.55	-5.0	1.3	-2.8	0.0	-69.20	2.4	-6.1
35	1	23.37	0.62	-6.9	1.8	-4.0	0.0	-68.89	3.4	-8.4
35	2	23.37	0.78	-6.0	1.3	-4.8	0.0	-63.49	3.7	-8.4
35	3	22.46	0.91	-8.2	1.4	-4.7	0.0	-67.89	3.3	-10.0
35	4	22.46	0.73	-10.4	0.6	-4.2	0.0	-71.13	2.1	-11.8
36	1	21.78	0.80	-11.5	1.2	-3.0	0.0	-77.49	1.9	-12.1
36	2	21.78	1.01	-9.2	2.0	-4.2	0.0	-71.68	3.1	-10.6
36	3	20.87	1.14	-11.1	2.4	-4.8	0.0	-72.38	4.0	-12.6
36	4	20.87	0.91	-14.0	1.8	-4.2	0.0	-76.09	2.8	-15.0
37	1	20.19	0.98	-14.8	1.8	-4.2	0.0	-76.67	2.8	-15.7
37	2	20.19	1.24	-11.9	2.3	-5.6	0.0	-70.99	4.2	-13.8
37	3	19.28	1.37	-14.1	3.6	-6.2	0.0	-72.46	5.6	-16.1
37	4	19.28	1.08	-17.6	2.8	-5.2	0.0	-76.47	4.1	-18.9
38	1	18.60	1.16	-18.2	3.0	-5.4	0.0	-76.54	4.3	-19.5
38	2	18.60	1.46	-14.7	3.5	-6.6	0.0	-71.93	5.7	-16.8
38	3	17.69	1.59	-16.7	4.1	-7.4	0.0	-72.31	6.5	-19.1
38	4	17.69	1.26	-20.9	3.2	-6.1	0.0	-76.62	4.6	-22.4
39	1	17.01	1.34	-21.6	3.4	-6.2	0.0	-76.72	4.8	-23.1
39	2	17.01	1.69	-17.3	4.4	-7.8	0.0	-72.20	7.0	-19.8
39	3	16.10	1.82	-19.5	4.3	-8.6	0.0	-72.00	7.1	-22.3
39	4	16.10	1.44	-24.3	3.6	-7.0	0.0	-76.72	5.8	-25.9
40	1	15.42	1.52	-24.9	3.8	-7.3	0.0	-76.56	5.5	-26.6
40	2	15.42	1.92	-19.9	4.6	-9.0	0.0	-71.94	7.5	-22.8
40	3	14.51	2.05	-22.1	4.6	-9.7	0.0	-71.96	7.7	-25.2
40	4	14.51	1.62	-27.5	3.8	-8.0	0.0	-76.53	5.7	-29.4
41	1	13.83	1.70	-28.0	4.1	-7.8	0.0	-77.09	5.9	-29.8
41	2	13.83	2.14	-22.4	5.1	-9.6	0.0	-72.56	8.1	-25.4
41	3	12.92	2.27	-24.5	5.3	-10.4	0.0	-72.63	8.6	-27.8
41	4	12.92	1.80	-30.6	4.2	-8.3	0.0	-77.20	6.1	-32.5
42	1	12.24	1.88	-31.0	4.6	-8.4	0.0	-77.41	6.4	-32.9
42	2	12.24	2.37	-24.9	5.7	-10.4	0.0	-72.93	8.8	-28.1
42	3	11.33	2.50	-27.0	5.7	-11.2	0.0	-72.79	9.2	-30.5
42	4	11.33	1.98	-33.6	4.5	-9.0	0.0	-77.37	6.5	-35.6
43	1	10.65	2.06	-33.9	5.0	-9.1	0.0	-77.51	7.0	-35.9
43	2	10.65	2.59	-27.3	5.9	-11.3	0.0	-72.85	9.4	-30.3
43	3	9.74	2.72	-29.6	5.9	-12.4	0.0	-72.53	9.8	-33.5
43	4	9.74	2.16	-36.7	4.9	-9.9	0.0	-77.24	7.1	-38.9
44	1	9.06	2.24	-37.1	5.1	-10.1	0.0	-77.19	7.4	-39.4
44	2	9.06	2.82	-29.9	6.1	-12.7	0.0	-72.44	10.1	-33.9
44	3	8.15	2.95	-32.4	5.8	-14.2	0.0	-71.72	10.5	-37.1
44	4	8.15	2.34	-40.0	4.8	-11.3	0.0	-76.65	7.5	-42.7
45	1	7.47	2.42	-40.6	5.1	-11.8	0.0	-76.39	7.9	-43.5
45	2	7.47	3.05	-32.9	5.9	-14.8	0.0	-71.29	10.9	-37.9
45	3	6.56	3.18	-35.9	5.5	-17.0	0.0	-70.27	11.6	-42.0
45	4	6.56	2.52	-44.3	4.7	-13.5	0.0	-75.59	8.2	-47.7
46	1	5.88	2.60	-45.3	5.0	-14.3	0.0	-75.20	8.8	-49.1
46	2	5.88	3.27	-36.9	5.3	-18.3	0.0	-69.52	12.2	-43.7
46	3	4.97	3.40	-40.7	4.3	-21.7	0.0	-67.98	13.1	-49.5
46	4	4.97	2.70	-50.0	4.8	-16.7	0.0	-74.30	9.5	-54.7
47	1	4.29	2.77	-51.8	4.6	-18.4	0.0	-73.47	10.0	-57.3
47	2	4.29	3.50	-42.0	3.9	-23.6	0.0	-67.11	13.9	-52.0
47	3	3.38	3.63	-45.9	1.9	-27.9	0.0	-65.31	14.8	-58.8
47	4	3.38	2.88	-58.6	2.0	-23.2	0.0	-71.24	9.9	-66.5
48	1	2.70	2.95	-60.6	-0.1	-26.0	0.0	-69.68	9.6	-70.2
48	2	2.70	3.73	-47.7	-1.9	-31.3	0.0	-63.10	14.0	-63.5
48	3	1.79	3.86	-51.0	-12.9	-37.5	0.0	-58.48	10.1	-74.0
48	4	1.79	3.06	-62.9	-5.8	-28.9	0.0	-67.31	6.3	-75.0
49	1	26.55	0.38	1.7	-0.4	0.9	0.0	20.18	2.1	-0.7

49	3	28.59	0.45	-1.2	-0.1	1.2	0.0	3[illegible].13	1.3	-[illegible].3
49	4	28.64	0.62	-0.[illegible]	0.7	-1.3	0.0	-53.61	1.6	-1.[illegible]
[illegible]	[illegible]	28.64	0.52	0.0	1.3	-0.2	0.0	-54.00	1.3	0.[illegible]
50	1	28.[illegible]	0.34	-0.9	3.6	-3.6	0.0	-[illegible].15	5.[illegible]	-3.3
50	2	28.98	0.76	-1.9	2.2	-3.1	0.0	-[illegible].13	4.3	-3.2
50	3	28.95	0.84	-2.9	1.0	-4.7	0.0	-56.38	4.1	-6.[illegible]
50	4	28.39	0.79	-3.8	0.7	-3.7	0.0	-60.60	2.7	-5.3
51	1	28.27	0.90	-5.[illegible]	1.9	-5.2	0.0	-61.76	4.7	-7.9
51	2	27.37	1.07	-3.8	1.9	-5.4	0.0	-59.07	5.1	-7.[illegible]
51	3	27.48	1.24	-4.8	2.3	-6.4	0.0	-59.52	6.0	-8.[illegible]
51	4	28.41	1.05	-6.8	1.5	-5.3	0.0	-64.04	4.1	-9.2
52	1	27.[illegible]	1.16	-7.[illegible]	2.0	-4.9	0.0	-61.31	4.1	-9.7
52	2	27.73	1.37	-5.[illegible]	3.2	-5.2	0.0	-64.36	5.7	-7.6
52	3	28.37	1.55	-6.[illegible]	2.7	-6.5	0.0	-62.53	6.1	-9.8
52	4	27.37	1.31	-9.[illegible]	3.2	-5.4	0.0	-65.09	4.[illegible]	-11.3
53	1	27.[illegible]6	1.42	-9.7	2.9	-6.3	0.0	-67.55	5.5	-12.3
53	2	26.[illegible]9	1.68	-6.8	3.3	-7.1	0.0	-62.7[illegible]	6.5	-10.5
53	3	[illegible].29	1.86	-8.0	4.5	-8.3	0.0	-63.49	8.6	-12.[illegible]
53	4	[illegible].31	1.58	-11.7	3.3	-7.1	0.0	-68.28	6.1	-14.3
54	1	[illegible].86	1.69	-12.0	4.2	-7.4	0.0	-68.77	7.1	-14.9
54	2	[illegible].31	1.99	-8.[illegible]	5.0	-8.5	0.0	-64.05	9.[illegible]	-16.[illegible]
54	3	[illegible].[illegible]	2.17	-9.[illegible]	5.4	-9.8	0.0	-63.54	10.2	-14.[illegible]
54	4	[illegible].03	1.84	-13.7	4.4	-8.4	0.0	-68.55	7.7	-17.[illegible]
55	1	[illegible]...	1.95	-14.[illegible]	5.0	-8.7	0.0	-68.90	9.4	-17.5
55	2	[illegible].11	2.30	-9.9	5.7	-10.0	0.0	-63.95	10.5	-14.8
55	3	[illegible].[illegible]9	2.47	-11.1	5.6	-11.2	0.0	-63.41	11.2	-16.7
55	4	[illegible].[illegible]	2.[illegible]	-15.9	5.0	-9.7	0.0	-68.55	8.9	-19.7
56	1	[illegible].[illegible]	2.81	-18.[illegible]	5.1	-10.0	0.0	-69.47	9.[illegible]	-20.[illegible]
56	2	[illegible].[illegible]	2.[illegible]	11.7	6.[illegible]	-11.6	0.0	-63.09	[illegible].9	-17.1
56	3	[illegible].61	2.[illegible]	-18.[illegible]	6.3	-12.7	0.0	-69.32	[illegible].7	-19.9
56	4	[illegible].[illegible]	2.78	-18.0	5.5	-11.0	0.0	-69.51	9.6	-[illegible]8.3
57	1	[illegible].[illegible]	2.47	-19.[illegible]	5.9	-10.9	0.0	-69.96	[illegible].1	-[illegible]6.5
57	2	[illegible].[illegible]	3.01	18.7	6.9	-12.6	0.0	-63.95	[illegible].0	[illegible].9
57	3	[illegible].[illegible]	2.78	-14.0	7.0	-12.7	0.0	-62.72	[illegible].7	-[illegible]0.[illegible]
57	4	[illegible].[illegible]	2.62	-20.[illegible]	6.1	-11.6	0.0	-69.[illegible]6	[illegible].6	-[illegible]4.6
58	1	[illegible].[illegible]	2.73	-20.[illegible]	6.4	-11.8	0.0	-69.30	[illegible].9	-[illegible]4.[illegible]
58	2	[illegible].[illegible]	3.33	14.2	7.5	-13.7	0.0	-64.16	[illegible].[illegible]	-[illegible]0.8
58	3	[illegible].31	3.39	-15.[illegible]	7.7	-14.9	0.0	-[illegible].[illegible]9	[illegible].0	-[illegible]1.[illegible]
58	4	[illegible].33	3.39	22.3	6.5	-13.9	0.0	-69.[illegible]1	[illegible].[illegible]	[illegible]7.[illegible]
59	1	[illegible].35	3.99	-23.[illegible]	6.8	-17.9	0.0	-69.21	[illegible].7	-[illegible]7.[illegible]
59	2	[illegible].35	3.52	15.6	7.9	-15.0	0.0	-63.[illegible]9	15.[illegible]	27.6
59	3	[illegible].[illegible]2	3.70	-17.0	7.6	-16.5	0.0	-63.[illegible]3	[illegible].3	-[illegible]5.[illegible]
59	4	[illegible].74	3.14	24.3	6.7	-14.2	0.0	-69.76	13.2	29.3
60	1	[illegible].[illegible]	3.25	-24.6	6.8	-14.5	0.0	-68.63	12.5	-30.2
60	2	[illegible].[illegible]	3.83	17.2	7.6	-16.8	0.0	-63.15	16.1	25.7
60	3	[illegible].[illegible]	4.01	-18.5	7.1	-18.9	0.0	-67.07	17.1	-28.4
60	4	9.19	3.40	26.6	6.4	-16.2	0.0	-67.76	13.0	33.3
61	1	7.47	3.51	-27.0	6.3	-17.0	0.0	-67.19	13.4	-34.2
61	2	7.47	4.14	18.7	6.7	-19.7	0.0	-61.39	17.5	29.5
61	3	8.56	4.32	-20.1	5.7	-22.7	0.0	-59.95	18.9	-33.3
61	4	6.06	3.66	29.5	5.5	-19.6	0.0	-65.88	14.3	38.3
62	1	5.88	3.77	-30.1	5.3	-21.1	0.0	-64.02	15.1	-39.9
62	2	5.88	4.45	20.4	4.9	-24.3	0.0	-58.77	19.6	35.2
62	3	4.97	4.62	-21.9	2.9	-28.6	0.0	-56.73	21.6	-40.7
62	4	4.97	3.92	32.9	4.3	-24.6	0.0	-63.50	16.6	45.2
63	1	4.29	4.03	-34.0	3.1	-27.0	0.0	-62.23	17.3	-48.2
63	2	4.29	4.75	21.8	1.7	-30.8	0.0	-55.46	23.0	-43.0
63	3	3.38	4.93	-22.3	-0.7	-35.4	0.0	-53.48	25.5	-48.5

03	4	3.38	4.19	-37.0	-0.8	-32.4	0.0	-59.61	19.3	-56.0
04	1	2.70	4.39	-38.3	-3.2	-34.4	0.0	-51.84	18.2	-57.9
04	2	2.71	5.06	22.0	-4.2	-37.4	0.0	-31.17	25.2	51.6
04	3	1.79	5.14	-21.8	-12.0	-40.7	0.0	-49.43	24.7	-58.6
04	4	1.79	4.44	26.3	-7.8	-36.7	0.0	-57.14	17.2	-41.4
05	1	20.95	0.50	1.2	2.4	1.3	0.0	56.31	3.3	0.4
05	2	20.95	0.57	0.0	-1.8	0.9	0.0	82.50	0.4	-2.2
05	3	20.64	0.79	-0.1	0.0	-1.0	0.0	-44.32	0.9	-1.1
05	4	20.64	0.70	0.1	1.1	-1.3	0.0	-20.85	2.0	-0.8
06	1	24.96	0.84	-1.4	2.4	-3.1	0.0	-60.65	4.2	-3.1
06	2	24.96	0.96	-1.4	1.5	-3.8	0.0	-55.51	4.1	-4.1
06	3	24.05	1.19	-1.1	2.6	-4.9	0.0	-59.47	6.0	-4.8
06	4	24.05	1.04	-2.0	2.5	-5.1	0.0	-56.85	5.8	-5.4
07	1	20.27	1.18	-2.7	2.7	-5.6	0.0	-57.94	6.2	-6.2
07	2	20.27	1.35	-1.3	3.9	-6.4	0.0	-54.23	7.6	-6.0
07	3	22.48	1.27	-1.2	3.7	-6.9	0.0	-54.78	8.0	-6.1
07	4	22.48	1.36	-2.3	3.3	-6.8	0.0	-57.89	7.5	-7.1
08	1	21.78	1.53	-3.5	2.5	-5.7	0.0	-58.95	6.0	-7.0
08	2	21.78	1.74	-1.1	3.8	-6.5	0.0	-53.52	7.6	-5.9
08	3	21.97	1.66	-1.5	3.9	-7.9	0.0	-54.47	9.5	-7.1
08	4	21.97	1.73	-4.4	3.3	-7.2	0.0	-59.08	7.6	-8.7
09	1	21.13	1.57	-4.6	4.0	-7.7	0.0	-59.61	9.5	-9.1
09	2	21.13	2.12	-1.7	3.9	-9.5	0.0	-54.08	10.0	-7.9
09	3	21.21	2.15	-1.9	4.9	-10.1	0.0	-54.32	12.1	-8.8
09	4	21.21	2.07	-5.4	1.4	-9.1	0.0	-59.80	8.3	-10.9
10	1	18.58	2.01	-5.7	5.1	-9.2	0.0	-60.21	10.3	-10.9
10	2	18.58	1.91	-2.0	5.3	-10.3	0.0	-54.73	12.6	-9.3
10	3	17.33	1.74	-2.6	6.0	-11.8	0.0	-54.61	14.4	-10.6
10	4	17.33	1.91	-6.4	5.4	-10.8	0.0	-59.43	11.8	-10.5
11	1	14.41	2.05	-6.7	6.0	-10.9	0.0	-60.17	12.3	-10.9
11	2	14.41	2.70	-2.3	6.5	-12.2	0.0	-54.91	15.1	-11.9
11	3	7.44	2.73	-7.5	6.5	-12.2	0.0	-59.82	13.8	-12.2
11	4	7.44	2.79	-7.6	6.6	-12.6	0.0	-59.71	14.1	-12.5
12	1	5.42	3.19	-2.5	7.4	-14.0	0.0	-59.78	17.2	-13.1
12	2	5.42	3.21	-8.9	7.9	-14.4	0.0	-54.04	18.8	-17.8
12	3	4.41	3.01	-8.9	7.9	-14.4	0.0	-59.64	18.8	-17.8
12	4	4.41	3.05	-8.5	7.0	-13.8	0.0	-59.60	15.1	-16.0
13	1	3.33	3.14	-8.6	7.4	-13.9	0.0	-59.05	15.4	-16.1
13	2	3.33	3.69	-2.9	8.3	-15.4	0.0	-54.98	19.1	-17.7
13	3	2.82	3.10	-3.2	8.8	-16.7	0.0	-54.50	20.6	-15.1
13	4	2.82	3.43	-9.5	7.6	-15.0	0.0	-59.31	16.2	-18.2
14	1	2.34	3.59	-9.6	8.0	-15.1	0.0	-60.15	16.7	-18.2
14	2	2.34	4.07	-3.3	9.1	-16.8	0.0	-55.11	20.8	-15.0
14	3	1.72	4.29	-3.7	9.2	-18.3	0.0	-54.76	22.1	-16.6
14	4	1.72	3.77	-10.5	8.3	-16.4	0.0	-59.66	17.7	-20.0
15	1	0.85	3.92	-10.7	8.4	-16.6	0.0	-59.97	18.0	-20.2
15	2	10.65	4.46	-3.7	9.3	-18.5	0.0	-54.68	22.4	16.9
15	3	9.74	4.69	-4.0	9.1	-20.2	0.0	-53.98	23.8	-18.6
15	4	9.74	4.12	-11.5	8.2	-18.1	0.0	-59.25	18.9	-22.3
16	1	9.06	4.26	-11.6	8.1	-18.5	0.0	-59.03	19.2	-22.7
16	2	9.06	4.84	-3.9	8.7	-20.6	0.0	-53.57	23.9	-19.1
16	3	8.15	5.07	-4.0	7.8	-22.8	0.0	-52.25	25.5	-21.7
16	4	8.15	4.46	-12.4	7.4	-20.7	0.0	-57.64	20.4	25.4
17	1	7.47	4.60	-12.4	6.8	-21.5	0.0	-57.05	20.8	-26.4
17	2	7.47	5.23	-3.7	7.0	-23.7	0.0	-51.34	25.9	-22.7
17	3	6.56	5.46	-3.2	5.2	-26.9	0.0	-49.45	28.3	-26.2
17	4	6.56	4.80	-13.1	5.4	-24.7	0.0	-55.29	22.6	-30.3
18	1	5.88	4.94	-12.9	4.4	-26.3	0.0	-54.10	23.5	-32.0

78	2	5.88	5.62	-2.5	3.6	-28.5	0.0	-48.06	29.2	-28.1
78	3	4.97	5.85	-1.2	0.8	-32.8	0.0	-45.88	32.7	-33.0
78	4	4.97	5.14	-13.1	2.6	-30.6	0.0	-52.20	26.3	-36.8
79	1	4.29	5.28	-12.7	0.5	-32.9	0.0	-50.67	27.5	-39.6
79	2	4.29	6.01	0.3	-1.0	-34.9	0.0	-44.46	34.6	-35.2
79	3	3.38	6.23	3.0	-2.9	-39.4	0.0	-42.86	39.5	-39.9
79	4	3.38	5.48	-12.1	-3.2	-37.7	0.0	-48.39	30.3	-45.6
80	1	2.70	5.63	-10.3	-4.9	-39.3	0.0	-46.99	31.8	-47.0
80	2	2.70	6.40	4.7	-5.3	-40.6	0.0	-41.49	40.6	-41.3
80	3	1.79	6.62	7.8	-9.1	-42.2	0.0	-39.33	42.4	-43.7
80	4	1.79	5.82	-7.6	-5.8	-41.0	0.0	-45.64	34.3	-47.6
81	1	26.55	0.62	0.6	0.1	1.2	0.0	39.43	1.6	-0.9
81	2	26.55	0.69	1.0	-0.5	1.2	0.0	28.68	1.7	-1.2
81	3	25.64	0.96	-0.8	2.3	-1.3	0.0	-70.03	2.8	-1.3
81	4	25.64	0.86	-0.5	1.3	-1.3	0.0	-62.14	2.0	-1.2
82	1	24.96	1.04	-1.0	1.2	-3.8	0.0	-53.30	4.0	-3.8
82	2	24.96	1.16	-0.2	3.4	-3.6	0.0	-58.17	5.6	-2.4
82	3	24.05	1.43	0.7	2.3	-5.3	0.0	-49.21	6.9	-3.9
82	4	24.05	1.29	-0.5	2.1	-5.1	0.0	-51.94	6.1	-4.5
83	1	23.37	1.47	-0.2	3.7	-6.7	0.0	-53.26	8.7	-5.2
83	2	23.37	1.63	1.1	3.8	-6.8	0.0	-50.56	9.4	-4.5
83	3	22.46	1.90	2.5	3.2	-7.6	0.0	-46.25	10.5	-4.8
83	4	22.46	1.71	0.2	2.9	-7.2	0.0	-50.41	8.8	-5.8
84	1	21.79	1.89	0.6	3.3	-6.9	0.0	-50.62	9.0	-5.1
84	2	21.79	2.10	2.7	3.1	-7.5	0.0	-45.77	10.1	-4.6
84	3	20.87	2.37	3.7	4.5	-9.1	0.0	-46.27	13.2	-5.0
84	4	20.87	2.13	0.7	4.1	-8.4	0.0	-50.71	10.9	-6.1
85	1	20.19	2.31	0.6	5.0	-9.2	0.0	-51.79	12.3	-6.6
85	2	20.19	2.57	3.5	4.6	-9.9	0.0	-46.68	13.9	-5.8
85	3	19.28	2.84	4.3	5.7	-11.6	0.0	-46.66	16.7	-6.6
85	4	19.28	2.56	0.7	5.4	-10.8	0.0	-51.11	14.2	-8.0
86	1	18.60	2.73	0.9	6.1	-11.0	0.0	-51.64	14.8	-7.9
86	2	18.60	3.04	4.6	6.2	-12.1	0.0	-46.88	17.5	-6.7
86	3	17.69	3.31	5.3	6.9	-13.6	0.0	-46.64	19.7	-7.5
86	4	17.69	2.98	0.9	6.4	-12.6	0.0	-51.09	16.5	-9.2
87	1	17.01	3.16	1.0	6.7	-13.1	0.0	-51.20	17.3	-9.6
87	2	17.01	3.51	5.5	7.6	-14.2	0.0	-47.17	20.8	-7.7
87	3	16.10	3.78	6.2	8.2	-15.7	0.0	-46.85	22.9	-8.5
87	4	16.10	3.40	1.1	7.6	-14.5	0.0	-51.34	19.2	-10.5
88	1	15.42	3.58	1.2	8.0	-14.9	0.0	-51.42	19.9	-10.7
88	2	15.42	3.98	6.3	8.5	-16.3	0.0	-46.96	23.7	-9.0
88	3	14.51	4.25	7.0	9.3	-17.8	0.0	-46.80	26.0	-9.7
88	4	14.51	3.82	1.3	8.7	-16.4	0.0	-51.34	21.9	-11.8
89	1	13.83	4.00	1.3	8.9	-16.5	0.0	-51.51	22.1	-11.9
89	2	13.83	4.45	7.1	9.7	-18.0	0.0	-47.09	26.5	-9.7
89	3	12.92	4.72	7.7	10.2	-19.6	0.0	-46.81	28.5	-10.7
89	4	12.92	4.25	1.3	9.4	-18.0	0.0	-51.30	23.8	-13.1
90	1	12.24	4.43	1.3	9.7	-18.1	0.0	-51.50	24.0	-13.1
90	2	12.24	4.92	7.7	10.4	-19.7	0.0	-46.96	28.8	-10.7
90	3	11.33	5.19	8.4	10.9	-21.4	0.0	-46.68	31.1	-11.7
90	4	11.33	4.67	1.3	9.7	-19.6	0.0	-51.05	25.6	-14.5
91	1	10.65	4.85	1.4	9.9	-19.8	0.0	-51.03	25.9	-14.6
91	2	10.65	5.39	8.5	10.9	-21.5	0.0	-46.56	31.3	-11.9
91	3	9.74	5.66	9.3	10.4	-23.4	0.0	-45.68	33.3	-13.5
91	4	9.74	5.09	1.6	9.6	-21.6	0.0	-50.24	27.5	-16.4
92	1	9.06	5.27	1.8	9.2	-21.9	0.0	-49.82	27.7	-16.8
92	2	9.06	5.86	9.6	9.8	-23.7	0.0	-45.13	33.4	-14.0
92	3	8.15	6.13	10.9	8.5	-25.9	0.0	-43.65	35.6	-16.2

92	4	8.15	5.52	2.3	8.1	-24.2	0.0	-48.43	29.6	-19.2
93	1	7.47	5.69	2.8	7.0	-25.0	0.0	-47.37	30.0	-20.3
93	2	7.47	6.32	11.7	7.0	-26.5	0.0	-42.49	26.0	-17.2
93	3	6.56	6.60	14.1	4.6	-29.4	0.0	-40.41	39.1	-20.4
93	4	6.56	5.94	4.1	4.8	-28.2	0.0	-45.34	32.6	-23.8
94	1	5.88	6.12	5.3	3.0	-29.7	0.0	-43.89	33.8	-25.6
94	2	5.98	6.79	15.7	2.1	-30.5	0.0	-38.75	40.2	-22.4
94	3	4.97	7.07	19.7	-1.4	-34.2	0.0	-36.43	44.9	26.7
94	4	4.97	6.36	7.8	0.4	-33.8	0.0	-41.86	38.1	-29.9
95	1	4.29	6.54	9.8	-2.2	-35.7	0.0	-40.25	40.0	-32.4
95	2	4.39	7.26	22.4	-3.8	-35.8	0.0	-34.95	47.5	-28.8
95	3	3.38	7.54	28.0	-5.3	-40.1	0.0	-33.75	54.8	-32.0
95	4	3.38	6.78	13.5	-5.3	-39.9	0.0	-38.36	45.1	-36.9
96	1	2.79	6.96	16.4	-5.8	-41.3	0.0	-37.46	48.1	-37.5
96	2	2.79	7.72	31.1	-6.6	-41.0	0.0	-32.67	57.4	-32.9
96	3	1.79	8.01	37.4	-6.2	-42.2	0.0	-31.33	63.1	-31.8
96	4	1.79	7.21	20.9	-2.5	-43.5	0.0	-37.49	54.3	-35.8
97	1	26.55	0.74	0.9	0.5	1.3	0.0	41.23	2.0	-0.6
97	2	26.55	0.81	0.3	2.9	1.6	0.0	64.78	3.7	-0.5
97	3	25.64	1.13	-1.1	-0.9	-1.9	0.0	-45.97	0.9	-2.9
97	4	25.64	1.03	-1.2	-0.2	-1.5	0.0	-54.12	0.8	-2.2
98	1	24.96	1.24	-0.3	2.4	-3.6	0.0	-55.44	4.9	-2.8
98	2	24.96	1.36	0.5	3.5	-2.8	0.0	-59.34	5.1	-1.2
98	3	24.05	1.68	3.0	3.3	-5.8	0.0	-45.71	9.0	-2.7
98	4	24.05	1.53	1.5	1.6	-5.6	0.0	-45.10	7.1	-4.1
99	1	23.37	1.75	2.1	3.5	-6.9	0.0	-47.76	9.8	-4.2
99	2	23.37	1.91	4.0	4.0	-6.7	0.0	-44.96	10.8	-2.7
99	3	22.46	2.23	6.2	3.0	-8.6	0.0	-39.73	13.3	-4.1
99	4	22.46	2.04	4.1	3.2	-8.0	0.0	-43.22	11.6	-4.3
100	1	21.78	2.25	4.7	4.0	-7.7	0.0	-43.69	12.1	-3.4
100	2	21.78	2.46	7.3	4.0	-8.1	0.0	-39.39	13.9	-2.6
100	3	20.87	2.78	8.6	4.6	-10.5	0.0	-39.61	17.3	-4.1
100	4	20.87	2.54	5.8	4.5	-9.7	0.0	-43.05	14.9	-4.6
101	1	20.13	2.76	6.0	5.6	-10.3	0.0	-44.47	16.1	-4.6
101	2	20.13	3.01	9.1	5.3	-11.0	0.0	-40.11	19.4	-4.0
101	3	19.28	3.33	10.8	6.5	-13.1	0.0	-40.42	21.9	-4.6
101	4	19.28	3.05	7.1	6.2	-12.2	0.0	-44.04	18.9	-5.5
102	1	18.60	3.26	7.5	6.8	-13.7	0.0	-44.18	19.9	-5.6
102	2	18.60	3.56	11.4	7.0	-13.4	0.0	-40.33	23.8	-4.4
102	3	17.69	3.88	13.0	7.8	-15.5	0.0	-40.30	26.2	-5.4
102	4	17.69	3.55	8.6	7.6	-14.4	0.0	-43.97	23.5	-6.3
103	1	17.01	3.76	8.8	8.2	-15.0	0.0	-44.47	23.5	-6.4
103	2	17.01	4.11	13.4	8.6	-15.8	0.0	-40.69	27.0	-4.9
103	3	16.10	4.43	15.1	9.3	-17.8	0.0	-40.42	30.3	-5.9
103	4	16.10	4.05	10.0	9.1	-16.6	0.0	-44.24	26.2	-7.1
104	1	15.42	4.27	10.1	9.5	-17.0	0.0	-44.42	26.8	-7.2
104	2	15.42	4.66	15.4	9.7	-18.2	0.0	-40.59	31.0	-5.9
104	3	14.51	4.98	17.1	10.5	-20.2	0.0	-40.38	34.2	-6.6
104	4	14.51	4.56	11.2	9.8	-18.9	0.0	-44.88	29.4	-8.4
105	1	13.83	4.77	11.4	10.2	-19.1	0.0	-44.13	29.9	-8.3
105	2	13.83	5.21	17.3	11.0	-20.4	0.0	-40.60	34.8	-6.4
105	3	12.92	5.53	18.9	11.5	-22.1	0.0	-40.24	37.7	-7.2
105	4	12.92	5.06	12.4	10.8	-20.7	0.0	-43.85	32.3	-9.1
106	1	12.24	5.28	12.5	11.1	-20.8	0.0	-44.01	32.7	-9.0
106	2	12.24	5.77	19.1	11.8	-22.4	0.0	-40.37	38.1	-7.2
106	3	11.33	6.08	20.7	12.2	-24.2	0.0	-39.99	41.0	-8.1
106	4	11.33	5.57	13.6	11.4	-22.6	0.0	-43.62	35.1	-10.2
107	1	10.65	5.78	13.7	11.3	-22.8	0.0	-43.51	35.3	-10.3

		[illegible]	6.32	21.0	18.1	-24.3	0.0	-39.85	41.7	-5.9
		6.74	6.67	22.9	11.8	-26.1	0.0	-39.08	44.0	-2.4
		[illegible]	[illegible]	15.0	10.9	-24.6	0.0	-42.8[illegible]	[illegible]7.6	-11.9
		[illegible]	6.28	15.4	10.2	-24.8	0.0	-42.03	37.7	-10.3
		[illegible]	[illegible]	23.3	11.0	-26.2	0.0	-39.41	44.0	-8.2
		6.15	7.19	25.8	9.4	-28.1	0.0	-36.86	46.8	-11.7
		[illegible]	[illegible]	17.4	8.9	-26.9	0.0	-40.57	40.3	-14.2
		[illegible]	6.79	18.2	7.2	-27.4	0.0	-43.32	43.6	-15.2
		[illegible]	7.42	20.8	7.6	-28.2	0.0	-[illegible].58	47.0	-12.6
		6.56	7.74	30.6	1.4	-30.2	0.0	-37.25	50.4	-15.4
		[illegible]	7.08	21.3	4.3	-29.9	0.0	-37.09	43.9	-19.3
		5.83	7.39	23.9	1.7	-30.7	0.0	-35.35	45.0	-20.1
		5.98	7.97	32.8	1.3	-30.5	0.0	-31.32	51.3	-17.2
		4.87	8.29	38.7	-3.2	-38.7	0.0	-28.69	56.6	-21.1
		[illegible].97	7.88	28.1	-1.9	-34.0	0.0	-32.12	50.3	-24.1
		[illegible].29	7.75	31.2	-5.1	-35.2	0.0	-31.36	52.7	-26.3
		[illegible].80	8.52	42.2	-6.4	-33.4	0.0	-26.95	59.2	-23.7
		[illegible].33	8.54	50.3	-8.3	-36.8	0.0	-25.74	68.0	-26.1
		[illegible].22	8.19	38.7	-7.9	-38.7	0.0	-29.62	60.2	-29.9
		[illegible].71	8.30	42.2	-7.6	-40.4	0.0	-29.16	64.7	-30.1
		[illegible].	8.07	55.1	-9.4	-37.6	0.0	-24.69	72.4	-36.7
		[illegible].71	8.39	65.1	-5.8	-39.0	0.0	-23.86	82.1	-33.1
		[illegible].7	8.89	48.8	-0.1	-43.9	0.0	-30.45	74.6	-25.9
		24.23	0.96	-0.7	0.9	1.8	0.0	57.09	2.1	-1.8
		[illegible].[illegible]2	0.93	-1.8	-0.2	1.8	0.0	58.30	1.1	-2.5
		25.04	1.29	-1.0	-0.6	-1.2	0.0	-50.31	0.4	-2.0
		25.04	1.20	-1.3	-0.6	-2.0	0.0	-49.92	1.1	-2.9
		[illegible].[illegible]	[illegible].[illegible]	0.6	2.4	-2.6	0.0	-54.71	4.2	-1.2
		[illegible].[illegible]	[illegible].56	1.2	2.4	-3.1	0.0	-50.51	4.9	-1.7
		[illegible].[illegible]	[illegible].75	5.5	4.5	-5.4	0.0	-42.30	10.3	-0.4
		[illegible].[illegible]	[illegible].78	3.8	3.1	-6.1	0.0	-46.36	9.5	-2.9
		27.37	2.15	5.6	3.0	-7.3	0.0	-40.55	11.2	-3.7
	2	27.27	2.19	6.8	4.0	-7.6	0.0	-39.85	12.8	-3.2
	3	26.41	2.56	10.7	4.8	-8.5	0.0	-35.47	16.8	-1.3
	4	26.41	2.37	9.9	4.1	-8.4	0.0	-38.20	14.9	-2.5
	1	27.71	2.11	8.8	3.3	-8.6	0.0	-40.88	15.1	-6.8
	2	27.[illegible]	2.82	11.5	3.7	-9.3	0.0	-36.74	17.7	-5.6
	3	27.37	3.[illegible]9	13.9	5.7	-11.2	0.0	-34.87	21.7	-8.1
	4	26.57	2.85	10.9	5.2	-10.8	0.0	-[illegible].04	19.2	-7.[illegible]
	1	28.13	3.20	11.6	6.0	-11.5	0.0	-38.1[illegible]	20.6	-3.0
	2	28.[illegible]	3.46	14.8	6.1	-12.3	0.0	-34.24	22.5	-2.9
	3	28.28	3.92	17.4	7.1	-14.1	0.0	-35.03	27.8	-2.7
	4	28.24	3.54	13.5	6.7	-13.6	0.0	-38.02	24.2	-3.9
	1	28.39	3.76	14.3	7.3	-14.0	0.0	-37.91	25.3	-3.7
	2	28.[illegible]	4.09	18.3	7.3	-15.0	0.0	-34.96	28.7	-3.8
	3	27.89	4.45	20.9	8.7	-16.9	0.0	-35.07	32.8	-3.2
	4	27.69	4.12	16.4	8.5	-16.1	0.0	-38.20	29.1	-4.1
119	1	27.01	4.27	16.8	8.9	-16.5	0.0	-38.20	29.8	-4.1
119	2	27.01	4.72	21.5	9.0	-17.4	0.0	-35.09	33.8	-3.3
119	3	26.10	5.08	24.8	10.1	-19.6	0.0	-35.14	38.0	-3.7
119	4	26.10	4.71	18.9	9.9	-18.7	0.0	-38.20	33.6	-4.8
120	1	25.42	4.95	19.3	10.0	-19.0	0.0	-38.14	34.2	-4.9
120	2	25.42	5.35	24.7	10.4	-20.1	0.0	-35.23	39.0	-3.8
120	3	24.51	5.72	27.4	11.6	-22.2	0.0	-35.25	43.1	-4.1
120	4	24.51	5.29	21.4	11.1	-21.1	0.0	-38.13	37.9	-5.4
121	1	23.83	5.54	21.7	11.4	-21.3	0.0	-38.17	38.5	-5.4
121	2	23.83	5.98	27.8	12.0	-22.5	0.0	-35.33	43.8	-4.0
121	3	22.92	6.35	30.5	12.8	-21.6	0.0	-35.11	47.8	-4.5

[illegible]	4	12.92	5.88	23.8	12.1	-22.2	0.0	-37.93	41.9	-6.0
[illegible]	1	12.24	6.12	24.0	12.4	-23.4	0.0	-36.04	42.2	-5.9
[illegible]	2	12.24	6.41	30.8	12.9	-24.8	0.0	-35.13	48.2	-4.5
[illegible]	3	11.37	6.58	33.4	13.6	-26.8	0.0	-34.87	52.1	-5.1
[illegible]	4	11.33	6.46	36.0	12.9	-25.3	0.0	-37.78	55.6	-6.7
123	1	10.65	6.71	26.3	12.8	-25.4	0.0	-37.55	45.9	-6.7
123	2	10.65	7.25	33.7	13.4	-26.8	0.0	-34.64	52.3	-5.1
123	3	9.74	7.61	36.5	13.3	-28.6	0.0	-33.96	55.7	-6.0
123	4	9.74	7.05	28.6	12.4	-27.2	0.0	-36.73	48.9	-7.9
124	1	9.06	7.29	29.0	11.6	-27.2	0.0	-36.18	48.9	-8.2
124	2	9.06	7.88	36.9	12.5	-28.4	0.0	-33.39	55.6	-6.3
124	3	8.15	8.24	40.1	10.9	-29.7	0.0	-31.94	58.6	-7.6
124	4	8.15	7.62	31.9	10.0	-28.8	0.0	-34.60	51.8	-9.8
125	1	7.47	7.68	32.9	8.0	-28.6	0.0	-33.33	51.7	-10.8
125	2	7.47	8.51	41.0	8.9	-29.1	0.0	-30.60	58.2	-8.3
125	3	6.56	8.37	45.2	5.5	-29.8	0.0	-28.16	61.1	-10.4
125	4	6.56	8.22	37.8	4.6	-30.0	0.0	-30.75	55.0	-13.3
126	1	5.98	9.46	39.7	1.3	-29.8	0.0	-28.77	55.6	-15.1
126	2	5.98	9.14	47.0	2.0	-28.7	0.0	-25.96	60.9	-12.0
126	3	4.87	9.51	53.2	-3.2	-28.8	0.0	-22.78	65.3	-15.3
126	4	4.87	8.80	45.4	-3.2	-31.4	0.0	-26.08	60.9	-18.6
127	1	4.21	9.35	49.3	-7.4	-31.3	0.0	-23.94	63.2	-21.3
127	2	4.39	8.77	56.1	-7.8	-27.6	0.0	-20.40	66.4	-18.0
127	3	3.28	10.14	64.8	-11.4	-28.4	0.0	-16.35	74.3	-20.9
127	4	3.28	9.39	58.4	-11.1	-33.2	0.0	-21.86	71.7	-24.4
128	1	2.71	9.93	63.4	-11.5	-34.5	0.0	-21.32	76.9	-24.9
128	2	2.49	10.41	70.8	-14.1	-27.6	0.0	-16.60	78.5	-22.4
128	3	1.77	10.77	85.1	-10.0	-28.9	0.0	-15.69	93.5	-18.9
128	4	1.77	9.17	72.6	-8.0	-38.9	0.0	-21.04	80.6	-18.5
129	1	11.35	1.09	-1.7	1.4	2.2	0.0	63.19	3.5	-3.8
129	2	11.35	1.05	-2.1	4.2	2.4	0.0	71.52	5.0	-2.9
129	3	11.24	1.46	-1.6	-1.0	-1.5	0.0	-50.27	0.8	-3.9
129	4	11.24	1.36	-1.3	-2.1	-1.5	0.0	-38.33	-0.1	-3.3
130	1	11.70	1.84	2.1	3.1	-2.8	0.0	-50.30	5.4	-4.3
130	2	11.91	1.76	3.6	3.6	-1.8	0.0	-44.70	5.4	-1.5
130	3	11.18	2.17	7.5	3.1	-5.9	0.0	-34.66	11.6	-6.3
130	4	11.18	2.02	6.0	2.1	-5.8	0.0	-35.56	10.1	-5.0
131	1	10.37	2.31	8.5	4.7	-7.6	0.0	-38.09	14.4	-4.8
131	2	10.37	2.47	10.4	4.4	-7.5	0.0	-33.11	15.8	-4.7
131	3	10.48	2.38	15.0	4.6	-9.1	0.0	-30.15	20.3	-5.7
131	4	10.48	2.70	12.2	3.7	-8.8	0.0	-33.17	17.9	-4.9
132	1	9.73	2.98	13.4	4.6	-9.8	0.0	-32.89	19.7	-4.9
132	2	9.73	3.19	15.7	4.7	-10.1	0.0	-30.81	21.7	-4.3
132	3	9.87	3.60	19.4	5.8	-12.0	0.0	-30.19	26.4	-4.2
132	4	9.87	3.36	16.2	5.6	-11.5	0.0	-33.54	23.5	-4.7
133	1	9.19	3.64	17.1	6.1	-12.9	0.0	-33.47	25.7	-5.4
133	2	9.19	3.90	20.4	6.2	-13.4	0.0	-31.03	28.5	-4.8
133	3	8.29	4.31	24.3	7.9	-15.3	0.0	-30.88	33.4	-4.2
133	4	8.29	4.03	20.2	7.1	-14.6	0.0	-32.92	29.6	-5.4
134	1	8.60	4.31	21.2	7.5	-15.5	0.0	-33.17	31.3	-5.6
134	2	8.60	4.61	25.3	8.4	-16.2	0.0	-31.22	35.1	-4.5
134	3	7.69	5.02	29.0	9.4	-18.4	0.0	-31.08	40.1	-4.7
134	4	7.69	4.69	24.2	8.8	-17.6	0.0	-33.14	35.7	-5.7
135	1	7.01	4.98	25.0	9.4	-18.1	0.0	-33.34	36.9	-5.5
135	2	7.01	5.32	29.9	10.0	-18.8	0.0	-31.08	41.2	-4.3
135	3	6.10	5.74	33.5	11.0	-21.3	0.0	-31.10	46.4	-4.9
135	4	6.10	5.36	28.0	10.4	-20.4	0.0	-33.33	41.5	-3.1
136	1	5.42	5.64	28.7	10.8	-20.9	0.0	-33.42	42.5	-3.0

136	2	15.42	6.04	34.3	11.4	-21.9	0.0	-31.16	47.5	-1.8
136	3	14.51	6.45	38.0	12.4	-24.1	0.0	-31.03	52.5	-2.1
136	4	14.51	6.03	31.8	12.2	-23.1	0.0	-32.46	47.1	-3.1
137	1	13.83	6.31	32.4	12.5	-23.4	0.0	-33.49	47.8	-2.9
137	2	13.83	6.75	38.7	12.9	-24.5	0.0	-31.14	53.5	-1.9
137	3	12.92	7.16	42.3	13.8	-26.8	0.0	-31.02	58.5	-2.3
137	4	12.92	6.69	35.4	13.4	-25.5	0.0	-33.31	52.2	-3.4
138	1	12.24	6.97	35.8	13.6	-25.7	0.0	-33.33	52.8	-3.3
138	2	12.24	7.46	42.8	14.2	-27.1	0.0	-31.08	59.2	-2.1
138	3	11.33	7.88	46.5	14.9	-29.2	0.0	-30.82	63.9	-2.5
138	4	11.33	7.36	38.9	14.2	-27.8	0.0	-33.04	57.0	-3.9
139	1	10.65	7.64	39.8	14.1	-27.9	0.0	-32.88	57.3	-3.9
139	2	10.65	8.18	46.8	14.8	-29.3	0.0	-30.72	64.2	-2.6
139	3	9.74	8.59	50.3	15.2	-31.0	0.0	-30.25	68.4	-3.0
139	4	9.74	8.02	42.3	14.0	-29.6	0.0	-32.27	61.0	-4.7
140	1	9.06	8.31	42.6	13.3	-29.3	0.0	-31.72	60.7	-4.8
140	2	9.06	8.89	50.5	14.6	-30.6	0.0	-29.81	68.1	-3.0
140	3	8.15	9.30	53.7	13.6	-31.5	0.0	-28.76	71.0	-3.6
140	4	8.15	8.69	46.0	12.0	-30.3	0.0	-30.39	63.8	-5.8
141	1	7.47	8.97	46.5	10.0	-29.5	0.0	-29.11	62.9	-6.4
141	2	7.47	9.60	53.7	11.9	-30.3	0.0	-27.68	69.6	-4.0
141	3	6.56	10.01	56.6	8.9	-29.6	0.0	-25.57	70.7	-5.3
141	4	6.56	9.36	50.5	6.6	-29.4	0.0	-26.65	65.3	-8.2
142	1	5.88	9.64	51.5	3.0	-27.8	0.0	-24.41	64.2	-9.6
142	2	5.88	10.32	56.4	5.5	-27.1	0.0	-23.40	68.1	-6.2
142	3	4.97	10.73	59.1	0.4	-24.1	0.0	-19.71	67.8	-8.3
142	4	4.97	10.02	56.8	-2.5	-26.7	0.0	-21.00	67.1	-12.8
143	1	4.29	10.30	59.2	-7.3	-24.4	0.0	-18.15	67.2	-15.3
143	2	4.29	11.03	58.7	-4.9	-20.4	0.0	-16.35	64.7	-10.8
143	3	3.38	11.44	61.3	-11.5	-16.0	0.0	-11.89	64.6	-14.9
143	4	3.38	10.69	67.3	-12.4	-22.4	0.0	-14.67	73.2	-18.3
144	1	2.70	10.97	70.9	-15.7	-20.8	0.0	-12.86	75.6	-20.4
144	2	2.70	11.74	62.4	-14.2	-11.5	0.0	-9.32	64.1	-15.9
144	3	1.71	12.15	63.2	-10.0	-2.1	0.0	-1.63	63.3	-10.1
144	4	1.79	11.36	82.5	-12.3	-19.6	0.0	-11.24	86.4	-16.2
145	1	26.05	1.10	-3.8	0.0	2.5	0.0	63.58	1.8	-5.0
145	2	26.95	1.17	-4.9	1.2	3.5	0.0	65.23	2.8	-6.5
145	3	25.64	1.63	-0.1	1.4	-0.8	0.0	-67.68	1.7	-0.5
145	4	25.64	1.53	-0.9	0.2	-1.1	0.0	-57.70	0.9	-1.6
146	1	24.96	1.84	3.5	1.1	-2.5	0.0	-31.78	5.0	-0.9
146	2	24.96	1.96	5.0	1.2	-1.7	0.0	-20.80	5.6	0.5
146	3	24.05	2.42	9.8	2.1	-6.3	0.0	-29.39	13.3	-1.4
146	4	24.05	2.28	8.7	3.0	-6.0	0.0	-32.25	12.5	-0.8
147	1	23.37	2.59	12.1	4.6	-7.4	0.0	-31.55	16.6	0.0
147	2	23.37	2.75	14.9	4.0	-7.5	0.0	-27.02	18.7	0.2
147	3	22.46	3.21	18.7	4.6	-10.0	0.0	-27.44	23.9	-0.6
147	4	22.46	3.02	16.6	4.4	-9.6	0.0	-28.84	21.9	-0.9
148	1	21.78	3.34	17.7	4.9	-10.5	0.0	-29.33	23.6	-1.0
148	2	21.78	3.55	20.5	5.6	-10.8	0.0	-27.68	26.2	0.0
148	3	20.87	4.01	24.5	6.1	-12.9	0.0	-27.21	31.1	-0.6
148	4	20.87	3.77	21.5	5.9	-12.5	0.0	-28.96	28.4	-1.0
149	1	20.19	4.09	23.1	7.1	-13.7	0.0	-29.89	30.9	-0.8
149	2	20.19	4.34	26.5	7.2	-14.4	0.0	-28.05	34.2	-0.5
149	3	19.28	4.80	31.2	8.3	-16.1	0.0	-27.30	39.5	0.0
149	4	19.28	4.52	27.1	7.8	-15.7	0.0	-29.13	35.9	-1.0
150	1	18.60	4.83	28.3	8.2	-16.6	0.0	-29.49	37.7	-1.2
150	2	18.60	5.14	32.4	8.5	-17.5	0.0	-27.82	41.6	-0.7
150	3	17.69	5.60	37.3	10.2	-19.5	0.0	-27.61	47.5	0.0

150	4	17.09	5.87	32.4	9.6	-19.0	0.0	-29.46	43.2	-1.7
151	1	17.01	5.38	33.7	9.7	-19.5	0.0	-28.48	44.2	-1.3
151	2	17.01	5.93	38.2	10.1	-20.3	0.0	-31.61	48.8	-0.8
151	3	16.13	6.39	43.1	11.9	-22.7	0.0	-37.69	55.0	-0.1
151	4	16.10	6.01	37.5	11.2	-21.9	0.0	-28.58	49.9	-1.9
152	1	15.48	6.33	38.4	11.5	-22.6	0.0	-29.69	51.8	-1.4
152	2	15.48	6.72	44.2	12.0	-23.3	0.0	-27.71	56.4	-0.2
152	3	14.21	7.18	49.1	13.3	-25.9	0.0	-27.68	62.7	-0.3
152	4	14.51	6.76	42.6	12.8	-25.0	0.0	-29.56	56.8	-1.3
153	1	13.83	7.09	43.4	13.1	-25.3	0.0	-29.53	57.7	-1.3
153	2	13.92	7.52	49.8	13.5	-26.3	0.0	-27.67	63.6	-0.3
153	3	13.58	7.98	54.7	14.8	-28.9	0.0	-27.72	69.9	-0.4
153	4	12.92	7.51	47.5	14.2	-27.7	0.0	-29.47	63.2	-1.5
154	1	12.84	7.82	48.0	14.5	-28.0	0.0	-28.55	63.9	-1.4
154	2	12.64	8.31	55.4	15.2	-29.2	0.0	-27.71	70.8	-0.1
154	3	11.33	8.77	60.0	16.2	-31.6	0.0	-27.62	76.6	-0.3
154	4	11.33	8.25	52.1	15.4	-30.3	0.0	-29.39	69.1	-1.7
155	1	10.85	8.57	52.5	15.4	-30.4	0.0	-29.31	69.5	-1.6
155	2	10.85	9.11	60.4	16.2	-31.8	0.0	-27.60	77.1	-0.4
155	3	9.14	9.57	64.7	17.2	-33.9	0.0	-27.58	82.3	-0.2
155	4	9.74	9.00	56.3	16.1	-32.2	0.0	-29.01	74.1	-1.2
156	1	9.18	9.32	56.2	15.5	-31.8	0.0	-28.69	73.6	-1.9
156	2	9.08	9.90	64.4	17.1	-34.6	0.0	-27.42	81.8	-0.4
156	3	8.18	10.36	67.0	17.2	-34.6	0.0	-27.15	84.7	-0.6
156	4	8.18	9.75	59.3	15.0	-32.5	0.0	-27.96	76.5	-2.2
157	1	7.67	10.38	58.6	13.6	-31.2	0.0	-27.11	74.6	-2.4
157	2	7.67	10.70	65.1	16.5	-34.4	0.0	-26.95	82.1	-0.5
157	3	7.09	10.15	64.5	15.3	-32.3	0.0	-26.34	80.5	-0.7
157	4	7.52	9.50	60.4	11.3	-30.0	0.0	-24.36	74.6	-3.0
158	1	7.19	9.81	58.4	8.2	-27.1	0.0	-23.60	70.9	-3.6
158	2	6.71	9.49	59.8	13.3	-29.1	0.0	-25.69	73.8	-0.5
158	3	6.77	9.85	53.3	10.3	-24.4	0.0	-24.31	64.5	-2.3
158	4	6.77	10.24	58.2	3.3	-23.1	0.0	-20.02	68.4	-5.1
159	1	6.31	9.82	54.9	-1.7	-18.2	0.0	-16.38	60.2	-7.1
159	2	6.31	10.23	43.9	5.9	-18.1	0.0	-21.82	51.3	-1.4
159	3	5.73	9.74	28.5	0.2	-8.7	0.0	-12.89	31.0	-3.3
159	4	5.73	9.39	52.4	-7.4	-10.7	0.0	-9.87	54.4	-9.2
160	1	5.71	8.31	47.1	-12.0	-4.8	0.0	-4.61	47.5	-8.4
160	2	5.71	10.09	12.9	-5.4	0.6	0.0	1.99	12.9	-5.4
160	3	5.71	10.54	-3.7	-0.9	6.4	0.0	21.26	4.3	-8.9
160	4	5.19	10.74	34.3	-7.1	0.6	0.0	6.79	34.4	-7.9
161	1	1.30	0.30	-79.4	-2.6	-1.6	0.0	-88.79	-2.6	-79.5
161	2	1.30	1.10	-99.0	-2.8	-9.3	0.0	-84.53	-1.9	-99.5
161	3	0.98	1.10	-108.5	-5.4	4.2	0.0	87.69	-5.9	-109.6
161	4	1.99	0.30	-79.2	18.6	-5.1	0.0	-87.03	18.9	-79.5
162	1	0.87	0.30	-65.1	39.9	15.2	0.0	81.91	42.0	-67.8
162	2	0.87	1.10	-159.3	-3.8	-30.3	0.0	-79.37	1.8	-165.0
162	3	0.15	1.10	-166.5	-94.7	-133.6	0.0	-52.52	7.7	-268.9
162	4	0.15	0.30	-87.5	-57.7	19.6	0.0	64.07	-48.0	-97.8
163	1	1.30	1.70	-93.9	-7.4	-24.2	0.0	-75.40	-1.1	-100.2
163	2	1.30	2.50	-72.9	-11.2	-29.0	0.0	-68.40	0.3	-84.3
163	3	0.88	2.50	-72.2	-7.2	-17.7	0.0	-75.72	2.7	-76.7
163	4	0.88	1.70	-106.2	-29.3	-54.3	0.0	-62.66	-1.2	134.3
164	1	0.57	1.70	-77.8	-37.2	-49.9	0.0	-56.06	-3.6	-111.4
164	2	0.47	2.50	-92.3	-35.5	-34.7	0.0	-64.65	-19.0	-108.8
164	3	0.15	2.50	-98.5	-73.0	-92.4	0.0	-48.92	7.5	-179.0
164	4	0.15	1.70	-61.4	-17.9	56.0	0.0	55.61	20.4	-99.7
165	1	1.30	3.10	-71.2	-17.3	-35.9	0.0	-63.44	0.6	-89.1

165	2	1.30	3.90	-45.3	-15.0	-35.4	0.0	-56.58	8.4	-68.7
165	3	0.88	3.90	-44.1	-11.2	-26.4	0.0	-60.95	3.5	-58.7
165	4	0.88	3.10	-73.0	-36.8	-49.0	0.0	-55.14	-2.7	-107.1
166	1	0.57	3.10	-51.2	-30.5	-31.6	0.0	-54.10	-7.6	-74.1
166	2	0.57	3.90	-66.0	-25.2	-36.1	0.0	-59.74	-4.2	-87.1
166	3	0.15	3.90	-72.3	-64.0	-71.3	0.0	-46.68	3.2	-139.6
166	4	0.15	3.10	-49.2	-13.2	10.3	0.0	75.15	-10.5	-51.9
167	1	1.30	4.50	-40.6	-16.2	-38.8	0.0	-53.73	12.2	-69.1
167	2	1.30	5.30	-16.3	-11.6	-38.9	0.0	-46.72	25.0	-52.8
167	3	0.88	5.30	-14.7	-4.1	-34.5	0.0	-49.37	25.5	-44.3
167	4	0.88	4.50	-43.8	-31.7	-45.0	0.0	-48.83	7.6	-83.1
168	1	0.57	4.50	-24.3	-25.7	-37.8	0.0	-44.48	12.8	-62.8
168	2	0.57	5.30	-34.4	-17.9	-37.4	0.0	-51.21	12.2	-64.4
168	3	0.15	5.30	-40.5	-51.3	-49.8	0.0	-41.92	4.2	-96.0
168	4	0.15	4.50	-17.4	-1.6	-6.3	0.0	-70.76	0.6	-19.6
169	1	1.30	5.90	-11.2	-11.3	-40.7	0.0	-44.97	29.4	-58.0
169	2	1.30	6.70	12.9	-5.8	-41.3	0.0	-38.63	45.9	-38.8
169	3	0.88	6.70	14.6	4.7	-41.5	0.0	-41.59	51.4	-32.1
169	4	0.88	5.90	-13.8	-24.2	-41.0	0.0	-41.38	22.3	-60.3
170	1	0.57	5.90	5.5	-15.3	-37.4	0.0	-37.25	33.9	-43.8
170	2	0.57	6.70	-4.9	-6.1	-38.1	0.0	-44.54	32.6	-43.7
170	3	0.15	6.70	-11.0	-36.7	-29.3	0.0	-33.15	8.1	-55.9
170	4	0.15	5.90	10.9	11.5	-29.1	0.0	-45.28	40.3	-17.9
171	1	1.30	7.30	18.4	-4.7	-41.6	0.0	-37.26	50.1	-36.1
171	2	1.30	8.10	41.7	0.3	-42.8	0.0	-32.10	68.6	-26.6
171	3	0.88	8.10	44.1	14.6	-47.9	0.0	-36.43	79.5	-20.8
171	4	0.88	7.30	15.9	-14.5	-36.6	0.0	-33.71	40.3	-38.9
172	1	0.57	7.30	34.6	-3.3	-39.0	0.0	-32.05	59.0	-27.7
172	2	0.57	8.10	25.4	6.9	-39.0	0.0	-38.38	56.2	-24.0
172	3	0.15	8.10	18.8	-19.6	-8.5	0.0	-11.96	20.6	-21.4
172	4	0.15	7.30	40.5	27.2	-49.9	0.0	-41.20	84.2	-16.5
173	1	1.30	8.70	47.9	1.4	-41.2	0.0	-30.89	78.0	-22.7
173	2	1.30	9.50	69.9	4.0	-42.5	0.0	-26.10	90.7	-16.7
173	3	0.88	9.50	71.6	23.3	-53.7	0.0	-32.68	105.4	-10.5
173	4	0.88	8.70	45.9	-4.3	-32.0	0.0	-25.96	61.5	-19.9
174	1	0.57	8.70	64.0	9.7	-40.0	0.0	-27.93	85.3	-11.5
174	2	0.57	9.50	55.5	19.9	-37.7	0.0	-32.36	79.4	-4.0
174	3	0.15	9.50	50.3	0.3	10.3	0.0	11.23	52.3	-1.7
174	4	0.15	8.70	69.9	45.6	-71.0	0.0	-40.16	129.8	-14.3
175	1	1.30	10.10	76.4	2.4	-36.9	0.0	-22.48	91.7	-12.8
175	2	1.30	10.90	86.0	-0.5	-33.6	0.0	-18.91	97.5	-12.0
175	3	0.88	10.90	97.3	22.9	-50.6	0.0	-26.85	122.9	-2.7
175	4	0.88	10.10	76.1	2.1	-26.8	0.0	-17.94	84.8	-6.6
176	1	0.57	10.10	90.4	23.2	-41.3	0.0	-25.43	110.0	3.6
176	2	0.57	10.90	88.5	29.3	-37.4	0.0	-25.79	106.6	11.2
176	3	0.15	10.90	80.7	20.0	33.7	0.0	23.97	95.7	5.0
176	4	0.15	10.10	96.6	66.0	-90.8	0.0	-40.23	173.3	-10.7
177	1	1.30	11.50	96.5	-6.6	-17.7	0.0	-9.48	99.5	-9.5
177	2	1.30	12.30	65.6	-7.2	1.9	0.0	1.52	65.7	-7.3
177	3	0.88	12.30	70.3	-5.8	-3.4	0.0	-2.51	70.5	-6.0
177	4	0.88	11.50	106.0	0.5	-13.3	0.0	-7.10	107.6	-1.1
178	1	0.57	11.50	115.7	18.4	-38.5	0.0	-19.19	129.1	5.0
178	2	0.57	12.30	115.5	0.3	8.4	0.0	4.13	116.1	-0.3
178	3	0.15	12.30	125.8	22.5	40.1	0.0	18.92	139.5	8.7
178	4	0.15	11.50	126.0	87.6	-109.3	0.0	-40.02	217.7	-4.2
179	1	1.30	12.90	21.8	4.2	5.6	0.0	16.27	23.4	2.5
179	2	1.30	13.70	-7.8	4.8	2.7	0.0	78.46	5.4	-8.3
179	3	0.88	13.70	-12.6	-4.0	-6.0	0.0	-62.76	-0.9	-15.6

179	4	0.88	12.90	25.8	17.3	17.3	0.0	38.11	39.4	3.8
180	1	0.57	12.90	15.4	11.0	17.3	0.0	63.71	19.6	-23.9
180	2	0.57	13.70	-4.7	2.5	-12.0	0.0	-53.33	11.4	-13.6
180	3	0.15	13.70	-0.7	-5.9	2.9	0.0	23.92	0.6	-7.3
180	4	0.15	12.90	-14.9	-26.3	-30.1	0.0	-39.64	10.0	-51.2
181	MUELLE	-94.049								
182	MUELLE	-94.198								
183	MUELLE	-94.265								
184	MUELLE	-94.329								
185	MUELLE	-94.371								
186	MUELLE	-94.390								
187	MUELLE	-94.375								
188	MUELLE	-94.324								
189	MUELLE	-94.211								
190	MUELLE	-332.302								
191	MUELLE	-249.097								
192	MUELLE	-165.987								
193	MUELLE	-82.978								
194	MUELLE	-0.017								
195	MUELLE	82.924								
196	MUELLE	165.881								
197	MUELLE	249.917								
198	MUELLE	332.142								

RESULTANTES DE TENSIONES

NUDO	FUER. X	FUER. Y
1	0.00	-3.37
2	0.01	1.71
3	0.00	-3.39
4	-0.02	1.70
5	0.01	0.84
6	0.01	-1.69
7	0.00	0.87
8	-0.04	-3.39
9	0.00	-3.37
10	0.01	1.69
11	-0.01	-3.40
12	0.02	0.85
13	-0.01	-1.68
14	-0.09	2.53
15	-0.02	-5.23
16	0.02	2.57
17	0.00	-3.37
18	0.01	-3.39
19	-0.01	1.66
20	0.04	-3.36
21	-0.01	-1.69
22	0.03	0.87
23	-0.01	-3.44
24	0.01	-5.27
25	0.01	2.60
26	0.01	-3.38
27	-0.02	-5.25
28	0.00	2.60
29	0.04	-3.40

80	0.02	-3.21
81	0.05	-5.23
82	0.00	1.29
83	0.09	-3.50
84	-0.01	-6.12
85	-0.03	3.15
86	0.00	-6.41
87	0.01	-6.12

98	[illegible]	3.08
99	[illegible]	-6.47
100	[illegible]	-3.37
101	[illegible]	0.83
102	[illegible]	-1.69
103	[illegible]	-6.06
104	[illegible]	2.97
105	[illegible]	-6.34
106	[illegible]	-1.71
107	[illegible]	0.44
108	[illegible]	-1.71
109	[illegible]	-5.97
110	[illegible]	2.93
111	[illegible]	-6.45
112	[illegible]	-5.82
113	[illegible]	2.89
114	[illegible]	-6.71
115	[illegible]	-6.10
116	[illegible]	3.15
117	[illegible]	-6.38
118	[illegible]	-6.21
119	[illegible]	3.20
120	[illegible]	-6.45
121	[illegible]	3.40
122	[illegible]	-6.77
123	[illegible]	-7.12
124	[illegible]	2.68
125	[illegible]	-5.36
126	[illegible]	-5.97
127	[illegible]	1.83
128	[illegible]	-5.39
129	[illegible]	0.81
130	[illegible]	-1.38
131	[illegible]	1.15
132	[illegible]	-5.35
133	[illegible]	2.85
134	[illegible]	-5.83
135	[illegible]	-2.84
136	[illegible]	-5.47
137	[illegible]	2.78
138	[illegible]	-5.79
139	[illegible]	-5.52
140	[illegible]	2.64
141	[illegible]	-5.72
142	[illegible]	-5.50
143	[illegible]	2.72
144	[illegible]	-5.78
145	[illegible]	-5.45

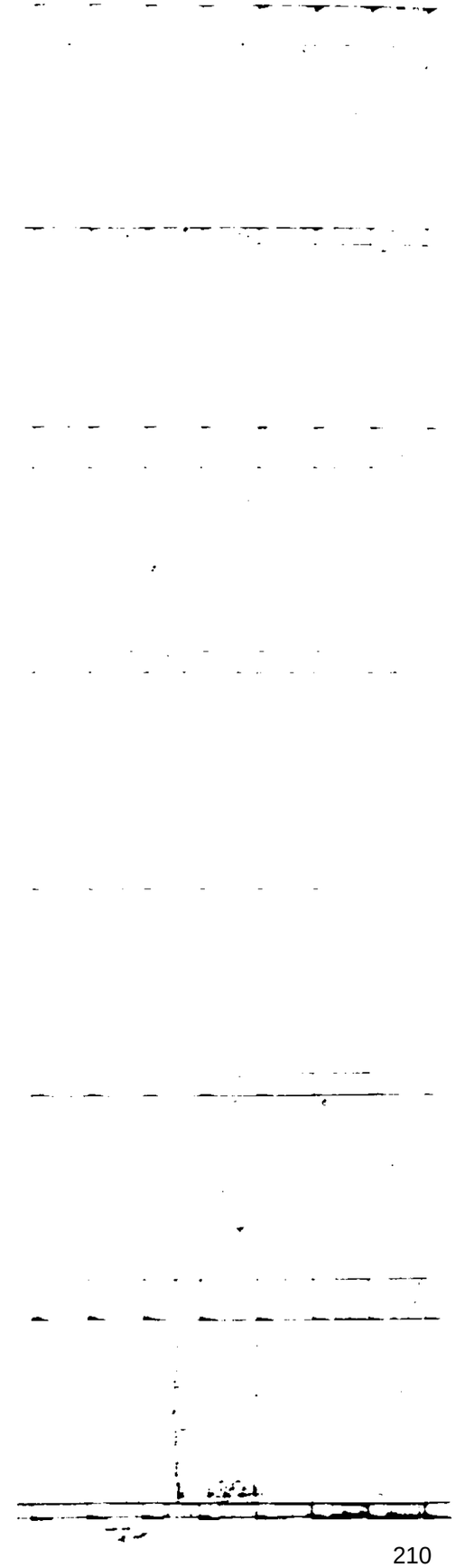
146	0.08	2.80
147	0.01	-5.73
148	-0.04	-5.52
149	0.03	2.82
150	0.04	-5.78
151	0.02	3.19
152	0.01	-6.15
153	0.01	-6.41
154	0.00	3.50
155	0.01	-6.82
156	0.00	-7.14
157	-0.08	2.63
158	0.00	-5.29
159	0.12	-3.41
160	0.01	1.78
161	0.03	-3.39
162	-0.25	-3.38
163	0.08	0.83
164	-0.02	-1.72
165	-0.06	1.29
166	0.07	-4.98
167	-0.10	2.41
168	0.02	-5.16
169	0.03	-2.56
170	0.07	-4.69
171	-0.03	2.48
172	0.00	-5.19
173	-0.04	-4.99
174	0.05	2.51
175	0.01	-5.16
176	-0.01	-5.03
177	0.03	2.57
178	0.06	-5.21
179	-0.07	-4.84
180	0.00	2.09
181	0.01	-5.09
182	0.02	-4.80
183	0.08	2.35
184	0.03	-5.17
185	0.04	-4.79
186	0.01	2.26
187	-0.03	-5.06
188	0.02	-4.68
189	0.01	2.25
190	-0.03	-5.18
191	0.00	-4.90
192	0.05	2.53
193	-0.01	-5.20
194	-0.01	-4.96
195	0.02	1.17
196	0.00	-2.60
197	0.01	1.41
198	-0.12	-5.53
199	-0.03	-2.90
200	0.02	1.57
201	0.02	-6.12
202	-0.05	-3.18
203	0.04	1.73



204	-0.05	-6.79
205	0.00	-3.54
206	0.03	1.29
207	-0.01	-5.26
208	0.03	-1.70
209	0.06	0.87
210	0.03	-3.37
211	-0.04	-1.72
212	0.06	0.44
213	0.04	-1.71
214	-0.02	1.12
215	-0.07	-4.51
216	-0.01	2.17
217	0.06	-4.53
218	0.00	-2.34
219	-0.05	-4.31
220	-0.02	2.18
221	0.01	-4.52
222	-0.02	-4.06
223	0.05	2.06
224	0.01	-4.61
225	-0.03	-4.07
226	-0.01	2.24
227	-0.01	-4.56
228	-0.02	-4.32
229	0.00	2.32
230	-0.05	-4.59
231	0.00	-4.30
232	0.02	2.25
233	0.00	-4.49
234	-0.09	-4.42
235	0.05	2.09
236	0.00	-4.64
237	0.00	-3.95
238	0.00	2.06
239	-0.05	-4.60
240	-0.02	-4.32
241	0.07	2.14
242	0.00	-4.44
243	-0.03	-4.28
244	-0.02	1.19
245	0.03	-2.28
246	-0.03	1.03
247	-0.01	-3.82
248	-0.05	1.87
249	0.06	-4.07
250	0.06	-1.97
251	0.04	-3.57
252	-0.05	1.84
253	0.01	-3.91
254	0.02	-3.63
255	0.02	1.83
256	-0.03	-4.03
257	-0.05	-3.85
258	0.06	2.13
259	0.01	-3.97
260	-0.06	-3.86
261	0.10	2.19

262	-0.03	-4.08
263	-0.04	-4.33
264	0.06	2.22
265	-0.01	-3.99
266	-0.02	-3.70
267	0.03	1.66
268	-0.01	-4.03
269	0.03	-3.38
270	0.01	1.75
271	-0.03	-4.03
272	0.05	-3.63
273	0.05	1.98
274	0.04	-3.99
275	-0.11	-4.02
276	0.02	1.00
277	0.00	-2.05
278	0.04	0.78
279	-0.10	-3.21
280	0.06	1.92
281	0.00	-3.54
282	0.03	-1.71
283	0.00	-3.32
284	-0.04	1.60
285	0.02	-3.46
286	-0.04	-3.29
287	-0.02	1.74
288	0.06	-3.60
289	-0.02	-3.20
290	0.07	1.94
291	0.05	-3.39
292	-0.13	-3.77
293	0.10	1.96
294	-0.05	-3.52
295	-0.06	-3.19
296	0.01	1.61
297	0.04	-3.53
298	-0.01	-3.15
299	0.05	1.48
300	0.01	-3.50
301	0.06	-3.11
302	-0.13	1.32
303	-0.01	-3.58
304	0.16	-2.95
305	-0.09	1.78
306	0.02	-3.40
307	-0.06	-3.70
308	0.01	1.14
309	-0.02	-1.67
310	-0.05	0.74
311	0.07	-2.78
312	0.00	1.46
313	0.02	-2.89
314	-0.02	-1.53
315	0.06	-2.42
316	0.03	1.33
317	-0.01	-3.11
318	-0.09	-2.44
319	0.01	1.15

320	0.00	-2.95
321	0.01	-2.53
322	0.09	1.52
323	-0.03	-2.91
324	-0.04	-3.02
325	-0.06	1.34
326	-0.03	-3.06
327	0.04	-2.51
328	0.07	1.41
329	-0.04	-2.92
330	-1.10	-2.89
331	-0.02	1.36
332	-0.01	-2.94
333	0.04	-2.67
334	-0.06	1.14
335	0.04	-3.09
336	0.05	-2.34
337	0.01	1.46
338	0.00	-2.81
339	-0.09	-2.99
340	0.02	0.84
341	-0.01	-1.61
342	-0.04	0.51
343	0.00	-2.54
344	0.03	1.10
345	0.03	-2.53
346	-0.05	-1.20
347	0.05	-2.36
348	-0.08	0.94
349	-0.03	-2.61
350	0.10	-2.34
351	-0.09	1.06
352	-0.01	-2.57
353	0.00	-2.77
354	-0.06	0.98
355	-0.09	-2.62
356	0.07	-2.43
357	-0.04	1.06
358	-0.04	-2.72
359	0.07	-2.30
360	-0.15	0.44
361	0.00	-2.72
362	0.07	-1.77
363	-0.03	0.93
364	0.02	-2.93
365	0.00	-1.96
366	0.12	1.19
367	0.03	-2.58
368	-0.12	-2.71
369	0.08	1.42
370	0.04	-2.48
371	-0.20	-2.93
372	0.07	0.86
373	-0.05	-1.40
374	0.02	0.31
375	-0.02	-1.81
376	0.00	0.58
377	-0.01	-2.08

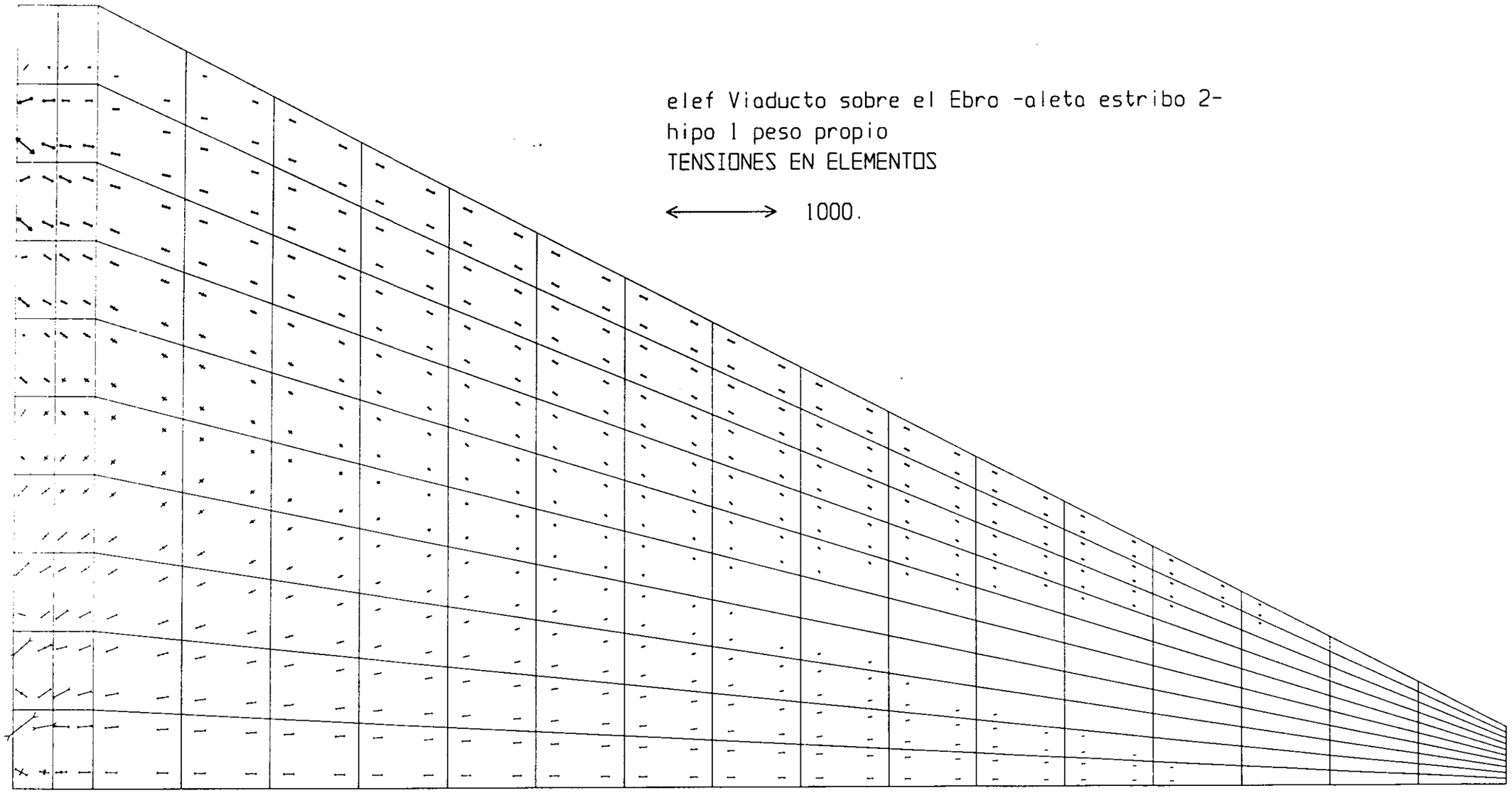


378	0.01	-1.93
379	-0.10	-2.14
380	1.02	1.11
381	0.00	-2.17
382	1.04	-2.41
383	-0.06	1.18
384	-0.04	-2.32
385	-0.01	-2.17
386	-0.06	1.27
387	-0.02	-2.15
388	0.09	-1.92
389	-0.01	1.00
390	0.02	-1.92
391	-0.09	-2.20
392	-0.03	0.52
393	-0.01	-2.44
394	1.01	-1.90
395	-0.08	0.54
396	1.00	-1.96
397	-0.05	-1.87
398	1.07	1.01
399	-0.02	-2.31
400	-0.15	-2.49
401	0.13	1.09
402	0.02	-2.03
403	-0.02	-2.39
404	-0.11	0.53
405	0.01	-1.96
406	0.0	0.08
407	-0.04	-1.96
408	0.03	-1.93
409	0.13	-1.93
410	1.13	-1.32
411	0.12	1.31
412	-0.10	-1.91
413	-0.05	-1....
414	1.0	1.12
415	0.13	-1.95
416	0.07	-2.31
417	-0.14	1.23
418	0.05	-1.97
419	0.17	-1.11
420	-0.03	0.30
421	-0.02	-1.93
422	0.05	-0.86
423	-0.05	0.23
424	0.01	-1.78
425	0.09	-1.12
426	0.04	0.68
427	-0.06	-1.78
428	0.01	-1.27
429	0.03	0.83
430	0.11	-1.94
431	-0.07	-2.51
432	-0.04	1.28
433	0.04	-1.78
434	0.06	-1.90

436	-0.04	0.16
437	-0.02	-0.99
438	0.05	0.64
439	-0.09	-2.17
440	0.00	1.10
441	-0.03	-1.45
442	0.03	-0.63
443	-0.02	-0.31
444	-0.02	0.51
445	0.06	-1.16
446	0.08	-1.48
447	-0.02	0.83
448	0.01	-1.20
449	-0.03	-1.59
450	0.05	0.43
451	0.01	-1.31
452	-0.03	-0.93
453	-0.08	-0.03
454	0.08	-1.62
455	-0.05	-0.55
456	-0.11	0.10
457	-0.05	-1.51
458	0.12	-0.50
459	-0.13	0.04
460	-0.05	-1.43
461	0.03	-1.34
462	0.02	0.78
463	0.08	-0.93
464	-0.10	-1.30
465	-0.01	0.21
466	-0.05	-1.56
467	0.03	-1.24
468	-0.11	-0.04
469	0.02	-0.61
470	-0.06	0.56
471	0.01	-0.76
472	-0.01	0.68
473	0.01	-0.70
474	0.00	-0.74
475	0.00	-0.93
476	-0.04	1.41
477	-0.03	-1.40
478	0.03	-1.02
479	0.09	0.81
480	0.13	-0.86
481	-0.07	-1.40
482	0.05	1.02
483	-0.04	-0.99
484	-0.13	-0.68
485	-0.02	0.69
486	-0.05	-1.07
487	0.07	-0.24
488	-0.13	0.08
489	0.03	-1.08
490	0.05	-0.32
491	-0.18	0.67
492	-0.03	-0.93
493	0.02	-1.45

494	0.11	0.95
495	0.02	-1.21
496	-0.22	-1.33
497	0.18	0.70
498	0.15	-1.01
499	-0.16	-1.29
500	0.04	0.18
501	0.05	-0.87
502	0.02	-0.35
503	-0.06	-0.26
504	0.01	-0.22
505	-0.01	-0.61
506	-0.01	-0.40
507	-0.02	0.04
508	0.02	-0.36
509	0.04	-0.49
510	0.08	0.55
511	-0.04	-0.21
512	0.07	-0.46
513	0.05	-0.39
514	-0.08	-0.54
515	-0.02	-1.47
516	0.02	-0.53
517	0.05	0.21
518	-0.06	-0.31
519	-0.18	-1.08
520	0.20	1.31
521	0.03	-0.21
522	-0.46	-2.30
523	0.39	1.86
524	0.05	-0.94
525	-0.33	-2.53
526	0.26	1.58
527	0.02	-0.66
528	-0.26	-1.51
529	0.09	0.23
530	-0.04	-0.54
531	0.16	0.13
532	-0.05	-0.19
533	0.01	-0.43
534	-0.09	-1.01
535	0.17	0.79
536	-0.05	0.01
537	-0.02	-0.84
538	0.00	-0.16
539	-0.10	-0.52
540	0.01	-1.24
541	0.00	-0.17
542	0.04	1.38
543	-0.08	-1.98
544	-0.04	-0.72
545	0.22	1.12
546	-0.27	-0.91
547	0.03	-0.63
548	0.18	1.53
549	0.05	-0.48
550	-0.01	-0.24
551	-0.29	-2.47

552	0.37	2.36
553	-0.07	-0.30
554	-0.31	-1.54
555	0.25	1.12
556	-0.05	-1.17
557	-0.04	-0.63
558	0.31	1.34
559	-0.09	-0.65
560	-0.44	-2.38
561	0.60	1.77
562	0.27	0.83
563	-0.50	-1.83
564	0.35	0.88
565	-0.05	-0.76
566	0.03	0.62
567	-0.05	0.30
568	0.08	-0.86
569	-0.05	-0.64
570	0.03	-0.12
571	-0.10	0.06
572	0.07	0.84
573	0.00	1.11
574	-0.05	0.56
575	0.00	-1.10
576	0.03	-1.80
577	0.10	0.02
578	-0.10	-1.50
579	0.04	-0.88
580	0.43	2.74
581	-0.23	-1.11
582	-0.13	-0.86
583	-0.03	0.19
584	0.05	-0.07
585	-0.09	-0.13
586	-0.09	-1.42
587	0.11	0.85
588	-0.11	0.64
589	-0.09	0.62
590	-0.05	-0.03
591	0.09	-1.25
592	0.12	-1.94
593	0.85	2.64
594	-0.01	-0.82
595	-0.53	-1.27
596	0.33	1.40
597	0.12	0.80


elef Viaducto sobre el Ebro -aleta estribo 2-
hipo 1 peso propio
TENSIONES EN ELEMENTOS
1000.

elef Viaducto sobre el Ebro -oleta estribo 2-

NUMERO DE PUNTOS NODALES = 597

NUMERO DE ELEMENTOS = 189

NUMERO DE TIPOS DE MATERIALES= 18

DIMENSION DEL ESPACIO = 2

GRADOS DE LIBERTAD POR NODO = 3

MAXIMO NUMERO NODOS/ELEMENTO = 8

NUMERO DE HIPOTESIS DE CARGA = 1

COORDENADAS NODALES

NODO	X	Y
1	0.362	5.600
2	0.725	4.200
3	0.725	4.900
4	0.725	5.600
5	0.000	5.600
6	0.000	4.900
7	0.000	4.200
8	0.362	4.200
9	0.725	3.500
10	0.725	7.000
11	0.362	7.000
12	0.000	7.000
13	0.000	6.300
14	1.450	2.800
15	1.450	3.500
16	1.450	4.200
17	1.087	4.200
18	0.725	3.500
19	0.725	2.800
20	1.087	2.800
21	0.000	3.500
22	0.000	2.800
23	0.362	2.800
24	1.450	4.900
25	1.450	5.600
26	1.087	5.600
27	1.450	6.300
28	1.450	7.000
29	1.087	7.000
30	1.450	7.700
31	1.450	8.400
32	1.087	8.400

33	0.725	8.400
34	0.725	7.700
35	0.362	8.400
36	0.000	8.400
37	0.000	7.700
38	3.040	1.319
39	3.040	1.978
40	3.040	2.638
41	2.245	2.719
42	1.450	2.100
43	1.450	1.400
44	2.245	1.359
45	3.040	3.297
46	3.040	3.957
47	2.245	4.078
48	0.725	2.100
49	0.725	1.400
50	1.087	1.400
51	3.040	4.616
52	3.040	5.276
53	2.245	5.438
54	0.000	2.100
55	0.000	1.400
56	0.362	1.400
57	3.040	5.935
58	3.040	6.594
59	2.245	6.797
60	3.040	7.254
61	3.040	7.913
62	2.245	8.157
63	3.040	8.573
64	3.040	9.232
65	2.245	9.516
66	1.450	9.300
67	1.450	9.100
68	1.087	9.300
69	0.725	9.800
70	0.725	9.100
71	0.362	9.800
72	0.000	9.800
73	0.000	9.100
74	4.630	0.000
75	4.630	0.619
76	4.630	1.238
77	3.835	1.278
78	3.040	0.659
79	3.040	0.000
80	3.835	0.000
81	1.450	0.700
82	1.450	0.000
83	2.245	0.000
84	4.630	1.857
85	4.630	2.475
86	3.835	2.557
87	4.630	3.094
88	4.630	3.713
89	3.835	3.835
90	0.725	0.700

91	6.725	6.000
92	1.087	0.000
93	4.630	4.332
94	4.630	4.951
95	3.835	5.113
96	0.000	0.700
97	0.000	0.000
98	0.362	0.000
99	4.630	5.570
100	4.630	6.189
101	7.835	6.392
102	4.630	6.808
103	4.630	7.426
104	3.835	7.670
105	4.630	8.045
106	4.630	8.664
107	3.835	8.949
108	4.630	9.283
109	4.630	9.902
110	3.835	10.226
111	3.040	10.551
112	3.040	9.692
113	8.245	10.876
114	1.450	11.200
115	1.450	10.300
116	1.087	11.200
117	6.725	11.200
118	0.725	10.300
119	6.267	11.200
120	0.000	11.200
121	0.000	10.300
122	6.220	1.000
123	6.220	1.578
124	6.220	1.157
125	5.425	1.197
126	6.425	1.000
127	6.220	1.735
128	6.220	2.313
129	5.424	2.394
130	6.220	2.892
131	6.220	3.470
132	5.425	3.552
133	6.220	4.048
134	6.220	4.627
135	5.425	4.709
136	6.220	5.205
137	6.220	5.783
138	5.425	5.986
139	6.220	6.361
140	6.220	6.940
141	5.425	7.183
142	6.220	7.518
143	6.220	8.096
144	5.425	8.380
145	6.220	8.675
146	6.220	9.253
147	5.425	9.578
148	6.220	9.831

149	6.220	10.410
150	5.425	10.775
151	4.630	11.140
152	4.630	10.521
153	3.835	11.505
154	3.040	11.870
155	3.040	11.210
156	2.245	12.235
157	1.450	12.600
158	1.450	11.900
159	1.087	12.600
160	0.725	12.600
161	0.725	11.900
162	0.362	12.600
163	0.000	12.600
164	0.000	11.900
165	7.810	0.000
166	7.810	0.538
167	7.810	1.075
168	7.015	1.116
169	7.015	0.000
170	7.810	1.613
171	7.810	2.151
172	7.015	2.272
173	7.810	2.689
174	7.810	3.227
175	7.015	3.348
176	7.810	3.764
177	7.810	4.302
178	7.015	4.464
179	7.810	4.840
180	7.810	5.378
181	7.015	5.580
182	7.810	5.915
183	7.810	6.453
184	7.015	6.696
185	7.810	6.991
186	7.810	7.529
187	7.015	7.812
188	7.810	8.066
189	7.810	8.604
190	7.015	8.928
191	7.810	9.142
192	7.810	9.680
193	7.015	10.045
194	7.810	10.217
195	7.810	10.755
196	7.015	11.161
197	6.220	11.566
198	6.220	10.988
199	5.425	11.972
200	4.630	12.377
201	4.630	11.759
202	3.835	12.783
203	3.040	13.189
204	3.040	12.529
205	2.245	13.594
206	1.450	14.000

207	1.450	13.300
208	1.087	14.000
209	0.725	14.000
210	0.725	13.300
211	0.362	14.000
212	0.000	14.000
213	0.000	13.300
214	9.400	0.000
215	9.400	0.497
216	9.400	0.994
217	8.605	1.035
218	8.605	0.000
219	9.400	1.492
220	9.400	1.989
221	8.605	2.070
222	9.400	2.486
223	9.400	2.983
224	8.605	3.105
225	9.400	3.480
226	9.400	3.978
227	8.605	4.140
228	9.400	4.475
229	9.400	4.972
230	8.605	5.175
231	9.400	5.469
232	9.400	5.966
233	8.605	6.210
234	9.400	6.463
235	9.400	6.961
236	8.605	7.245
237	9.400	7.458
238	9.400	7.955
239	9.605	8.280
240	9.400	8.452
241	9.400	8.949
242	8.605	9.314
243	9.400	9.447
244	9.400	9.944
245	8.605	10.349
246	10.990	0.000
247	10.990	0.457
248	10.990	0.913
249	10.195	0.954
250	10.195	0.000
251	10.990	1.370
252	10.990	1.827
253	10.195	1.908
254	10.990	2.283
255	10.990	2.740
256	10.195	2.861
257	10.990	3.196
258	10.990	3.653
259	10.195	3.815
260	10.990	4.110
261	10.990	4.566
262	10.195	4.769
263	10.990	5.023
264	10.990	5.479

265	10.195	5.783
266	10.990	5.836
267	10.990	6.393
268	10.195	6.677
269	10.990	6.849
270	10.990	7.306
271	10.195	7.620
272	10.990	7.763
273	10.990	8.219
274	10.195	8.534
275	10.990	8.676
276	10.990	9.133
277	10.195	9.538
278	12.580	0.000
279	12.580	0.416
280	12.580	0.832
281	11.785	0.873
282	11.785	0.000
283	12.590	1.248
284	12.590	1.664
285	11.785	1.745
286	12.580	2.080
287	12.580	2.496
288	11.785	2.618
289	12.580	2.912
290	12.580	3.329
291	11.785	3.491
292	12.580	3.745
293	12.580	4.161
294	11.785	4.363
295	12.580	4.577
296	12.580	4.992
297	11.785	5.236
298	12.580	5.409
299	12.580	5.825
300	11.785	6.109
301	12.580	6.241
302	12.580	6.657
303	11.785	6.981
304	12.580	7.073
305	12.580	7.489
306	11.785	7.854
307	12.580	7.905
308	12.580	8.321
309	11.785	8.727
310	14.170	0.000
311	14.170	0.376
312	14.170	0.751
313	13.375	0.792
314	13.375	0.000
315	14.170	1.127
316	14.170	1.502
317	13.375	1.583
318	14.170	1.877
319	14.170	2.253
320	13.375	2.375
321	14.170	2.628
322	14.170	3.004

323	13.375	3.166
324	14.170	3.330
325	14.170	3.755
326	13.375	3.958
327	14.170	4.130
328	14.170	4.506
329	13.375	4.749
330	14.170	4.891
331	14.170	5.257
332	13.375	5.541
333	14.170	5.633
334	14.170	6.008
335	13.375	6.332
336	14.170	6.383
337	14.170	6.759
338	13.375	7.134
339	14.170	7.135
340	14.170	7.510
341	13.375	7.916
342	15.760	0.000
343	15.760	0.335
344	15.760	0.670
345	14.965	0.710
346	14.965	0.000
347	15.760	1.005
348	15.760	1.340
349	14.965	1.421
350	15.760	1.675
351	15.760	2.010
352	14.965	2.131
353	15.760	2.345
354	15.760	2.679
355	14.965	2.842
356	15.760	3.014
357	15.760	3.349
358	14.965	3.552
359	15.760	3.684
360	15.760	4.019
361	14.965	4.263
362	15.760	4.354
363	15.760	4.689
364	14.965	4.973
365	15.760	5.024
366	15.760	5.359
367	14.965	5.684
368	15.760	5.694
369	15.760	6.029
370	14.965	6.394
371	15.760	6.364
372	15.760	6.699
373	14.965	7.104
374	17.350	0.000
375	17.350	0.294
376	17.350	0.589
377	16.555	0.629
378	16.555	0.000
379	17.350	0.883
380	17.350	1.177

381	16.555	1.259
382	17.350	1.472
383	17.350	1.766
384	16.555	1.888
385	17.350	2.061
386	17.350	2.355
387	16.555	2.517
388	17.350	2.649
389	17.350	2.944
390	16.555	3.147
391	17.350	3.238
392	17.350	3.533
393	16.555	3.776
394	17.350	3.827
395	17.350	4.121
396	16.555	4.405
397	17.350	4.416
398	17.350	4.710
399	16.555	5.035
400	17.350	5.004
401	17.350	5.299
402	16.555	5.664
403	17.350	5.593
404	17.350	5.888
405	16.555	6.293
406	18.940	0.000
407	18.940	0.254
408	18.940	0.508
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410	18.145	0.000
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413	18.145	1.096
414	18.940	1.269
415	18.940	1.523
416	18.145	1.645
417	18.940	1.777
418	18.940	2.030
419	18.145	2.193
420	18.940	2.284
421	18.940	2.538
422	18.145	2.741
423	18.940	2.792
424	18.940	3.046
425	18.145	3.289
426	18.940	3.300
427	18.940	3.553
428	18.145	3.837
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433	18.940	4.569
434	18.145	4.934
435	18.940	4.822
436	18.940	5.076
437	18.145	5.482
438	20.530	0.000

439	20.530	0.213
440	20.530	0.426
441	19.735	0.467
442	19.735	0.000
443	20.530	0.640
444	20.530	0.853
445	19.735	0.934
446	20.530	1.066
447	20.530	1.280
448	19.735	1.401
449	20.530	1.493
450	20.530	1.706
451	19.735	1.868
452	20.530	1.919
453	20.530	2.132
454	19.735	2.335
455	20.530	2.346
456	20.530	2.559
457	19.735	2.802
458	20.530	2.772
459	20.530	2.986
460	19.735	3.269
461	20.530	3.199
462	20.530	3.412
463	19.735	3.736
464	20.530	3.625
465	20.530	3.838
466	19.735	4.204
467	20.530	4.052
468	20.530	4.265
469	19.735	4.671
470	22.120	0.000
471	22.120	0.173
472	22.120	0.345
473	21.325	0.396
474	21.325	0.000
475	22.120	0.518
476	22.120	0.691
477	21.325	0.772
478	22.120	0.863
479	22.120	1.036
480	21.325	1.158
481	22.120	1.209
482	22.120	1.381
483	21.325	1.544
484	22.120	1.554
485	22.120	1.727
486	21.325	1.930
487	22.120	1.900
488	22.120	2.072
489	21.325	2.316
490	22.120	2.245
491	22.120	2.418
492	21.325	2.702
493	22.120	2.590
494	22.120	2.763
495	21.325	3.087
496	22.120	2.936

497	22.120	3.108
498	21.325	3.473
499	22.120	3.281
500	22.120	3.454
501	21.325	3.859
502	23.710	0.000
503	23.710	0.132
504	23.710	0.264
505	22.915	0.305
506	22.915	0.000
507	23.710	0.396
508	23.710	0.528
509	22.915	0.610
510	23.710	0.661
511	23.710	0.793
512	22.915	0.914
513	23.710	0.925
514	23.710	1.057
515	22.915	1.219
516	23.710	1.189
517	23.710	1.321
518	22.915	1.524
519	23.710	1.453
520	23.710	1.585
521	22.915	1.829
522	23.710	1.718
523	23.710	1.850
524	22.915	2.134
525	23.710	1.982
526	23.710	2.114
527	22.915	2.439
528	23.710	2.246
529	23.710	2.378
530	22.915	2.743
531	23.710	2.510
532	23.710	2.643
533	22.915	3.048
534	25.300	0.000
535	25.300	0.092
536	25.300	0.183
537	24.505	0.224
538	24.505	0.000
539	25.300	0.275
540	25.300	0.366
541	24.505	0.447
542	25.300	0.458
543	25.300	0.549
544	24.505	0.671
545	25.300	0.641
546	25.300	0.733
547	24.505	0.895
548	25.300	0.824
549	25.300	0.916
550	24.505	1.118
551	25.300	1.007
552	25.300	1.099
553	24.505	1.342
554	25.300	1.190

555	25.300	1.282
556	24.505	1.566
557	25.300	1.373
558	25.300	1.465
559	24.505	1.790
560	25.300	1.557
561	25.300	1.648
562	24.505	2.013
563	25.300	1.740
564	25.300	1.831
565	24.505	2.237
566	26.890	0.000
567	26.890	0.051
568	26.890	0.102
569	26.095	0.143
570	26.095	0.000
571	26.890	0.153
572	26.890	0.204
573	26.095	0.285
574	26.890	0.255
575	26.890	0.306
576	26.095	0.428
577	26.890	0.357
578	26.890	0.408
579	26.095	0.570
580	26.890	0.459
581	26.890	0.510
582	26.095	0.713
583	26.890	0.561
584	26.890	0.612
585	26.095	0.855
586	26.890	0.663
587	26.890	0.714
588	26.095	0.998
589	26.890	0.765
590	26.890	0.816
591	26.095	1.141
592	26.890	0.867
593	26.890	0.918
594	26.095	1.283
595	26.890	0.969
596	26.890	1.020
597	26.095	1.426

ELEMENTOS

ELEMENTO	MATERIAL	NODO 1	NODO 2	NODO 3	NODO 4	NODO 5	NODO 6	NODO 7	NODO 8
1	1	566	567	568	569	536	535	534	570
2	2	534	535	536	537	504	503	502	538
3	3	502	503	504	505	472	471	470	506
4	4	470	471	472	473	440	439	438	474
5	5	438	439	440	441	408	407	406	442
6	6	406	407	408	409	376	375	374	410
7	7	374	375	376	377	344	343	342	378
8	8	342	343	344	345	312	311	310	346

9	9	310	311	312	313	280	279	278	314
10	10	278	279	280	281	248	247	246	282
11	11	246	247	248	249	216	215	214	250
12	12	214	215	216	217	167	166	165	218
13	13	165	166	167	168	124	123	122	169
14	14	122	123	124	125	76	75	74	126
15	15	74	75	76	77	38	78	79	80
16	16	79	78	38	44	43	81	82	83
17	1	568	571	572	573	540	539	536	569
18	2	536	539	540	541	508	507	504	537
19	3	504	507	508	509	476	475	472	505
20	4	472	475	476	477	444	443	440	473
21	5	440	443	444	445	412	411	408	441
22	6	408	411	412	413	380	379	376	409
23	7	376	379	380	381	348	347	344	377
24	8	344	347	348	349	316	315	312	345
25	9	312	315	316	317	284	283	280	313
26	10	280	283	284	285	252	251	248	281
27	11	248	251	252	253	220	219	216	249
28	12	216	219	220	221	171	170	167	217
29	13	167	170	171	172	128	127	124	168
30	14	124	127	128	129	85	84	76	125
31	15	76	84	85	86	40	39	38	77
32	16	38	39	40	41	14	42	43	44
33	1	572	574	575	576	543	542	540	573
34	2	540	542	543	544	511	510	508	541
35	3	508	510	511	512	479	478	476	509
36	4	476	478	479	480	447	446	444	477
37	5	444	446	447	448	415	414	412	445
38	6	412	414	415	416	383	382	380	413
39	7	380	382	383	384	351	350	348	381
40	8	348	350	351	352	319	318	316	349
41	9	316	318	319	320	287	286	284	317
42	10	284	286	287	288	255	254	252	285
43	11	252	254	255	256	223	222	220	253
44	12	220	222	223	224	174	173	171	221
45	13	171	173	174	175	131	130	128	172
46	14	128	130	131	132	88	87	85	129
47	15	85	87	88	89	46	45	40	86
48	16	40	45	46	47	16	15	14	41
49	1	575	577	578	579	546	545	543	576
50	2	543	545	546	547	514	513	511	544
51	3	511	513	514	515	482	481	479	512
52	4	479	481	482	483	450	449	447	480
53	5	447	449	450	451	418	417	415	448
54	6	415	417	418	419	386	385	383	416
55	7	383	385	386	387	354	353	351	384
56	8	351	353	354	355	322	321	319	352
57	9	319	321	322	323	290	289	287	320
58	10	287	289	290	291	258	257	255	288
59	11	255	257	258	259	226	225	223	256
60	12	223	225	226	227	177	176	174	224
61	13	174	176	177	178	134	133	131	175
62	14	131	133	134	135	94	93	88	132
63	15	88	93	94	95	52	51	46	89
64	16	46	51	52	53	25	24	16	47
65	1	578	580	581	582	549	548	546	579
66	2	546	548	549	550	517	516	514	547

67	3	514	516	517	518	485	484	482	515
68	4	482	484	485	486	453	452	450	483
69	5	450	452	453	454	421	420	418	451
70	6	418	420	421	422	389	388	386	419
71	7	386	388	389	390	357	356	354	387
72	8	354	356	357	358	325	324	322	355
73	9	322	324	325	326	293	292	290	323
74	10	290	292	293	294	261	260	258	291
75	11	258	260	261	262	229	228	226	259
76	12	226	228	229	230	180	179	177	227
77	13	177	179	180	181	137	136	134	178
78	14	134	136	137	138	100	99	94	135
79	15	94	99	100	101	58	57	52	95
80	16	52	57	58	59	28	27	25	53
81	1	581	583	584	585	552	551	549	582
82	2	549	551	552	553	520	519	517	550
83	3	517	519	520	521	488	487	485	518
84	4	485	487	488	489	456	455	453	486
85	5	453	455	456	457	424	423	421	454
86	6	421	423	424	425	392	391	389	422
87	7	389	391	392	393	360	359	357	390
88	8	357	359	360	361	328	327	325	358
89	9	325	327	328	329	296	295	293	326
90	10	293	295	296	297	264	263	261	294
91	11	261	263	264	265	232	231	229	262
92	12	229	231	232	233	183	182	180	230
93	13	180	182	183	184	140	139	137	181
94	14	137	139	140	141	103	102	100	138
95	15	100	102	103	104	61	60	58	101
96	16	58	60	61	62	31	30	28	59
97	1	594	596	597	598	555	554	552	589
98	2	552	554	555	556	523	522	520	553
99	3	520	522	523	524	491	490	488	521
100	4	488	490	491	492	459	458	456	489
101	5	456	459	459	460	427	426	424	457
102	6	424	426	427	428	395	394	392	425
103	7	392	394	395	396	363	362	360	393
104	8	360	362	363	364	331	330	328	361
105	9	328	330	331	332	299	298	296	329
106	10	296	298	299	300	267	266	264	297
107	11	264	266	267	268	235	234	232	265
108	12	232	234	235	236	186	185	183	233
109	13	183	185	186	187	143	142	140	184
110	14	140	142	143	144	106	105	103	141
111	15	103	105	106	107	64	63	61	104
112	16	61	63	64	65	66	67	31	62
113	1	587	589	590	591	558	557	555	588
114	2	555	557	558	559	526	525	523	556
115	3	523	525	526	527	494	493	491	524
116	4	491	493	494	495	462	461	459	492
117	5	459	461	462	463	430	429	427	460
118	6	427	429	430	431	398	397	395	428
119	7	395	397	398	399	366	365	363	396
120	8	363	365	366	367	334	333	331	364
121	9	331	333	334	335	302	301	299	332
122	10	299	301	302	303	270	269	267	300
123	11	267	269	270	271	238	237	235	268
124	12	235	237	238	239	189	188	186	236

125	13	186	188	189	190	146	145	143	187
126	14	143	145	146	147	109	108	106	144
127	15	106	108	109	110	111	112	64	107
128	16	64	112	111	113	114	115	66	65
129	1	590	592	593	594	561	560	558	591
130	2	559	560	561	562	529	528	526	559
131	3	526	528	529	530	497	496	494	527
132	4	494	496	497	498	465	464	462	495
133	5	462	464	465	466	433	432	430	463
134	6	430	432	433	434	401	400	398	431
135	7	398	400	401	402	369	368	366	399
136	8	366	368	369	370	337	336	334	367
137	9	334	336	337	338	305	304	302	335
138	10	302	304	305	306	273	272	270	303
139	11	270	272	273	274	241	240	238	271
140	12	238	240	241	242	192	191	189	239
141	13	189	191	192	193	149	148	146	190
142	14	146	149	149	150	151	152	109	147
143	15	109	152	151	153	154	155	111	110
144	16	111	155	154	156	157	158	114	113
145	1	593	595	596	597	564	563	561	594
146	2	561	563	564	565	532	531	529	562
147	3	529	531	532	533	500	499	497	530
48	4	497	499	500	501	468	467	465	498
149	5	465	467	468	469	436	435	433	466
150	6	433	435	436	437	404	403	401	434
151	7	401	403	404	405	372	371	369	402
152	8	369	371	372	373	340	339	337	370
153	9	337	339	340	341	308	307	305	338
154	10	305	307	308	309	276	275	273	306
155	11	273	275	276	277	244	243	241	274
156	12	241	243	244	245	195	194	192	242
157	13	192	194	195	196	197	198	149	193
158	14	149	198	197	199	200	201	151	150
159	15	151	201	200	202	203	204	154	153
160	16	154	204	203	205	206	207	157	156
161	17	82	81	43	50	49	90	91	92
162	17	91	90	49	56	55	96	97	98
163	17	43	42	14	20	19	48	49	50
164	17	49	48	19	23	22	54	55	56
165	17	14	15	16	17	2	18	19	20
166	17	19	18	2	8	7	21	22	23
167	17	16	24	25	26	4	3	2	17
168	17	2	3	4	1	5	6	7	8
169	17	25	27	28	29	10	9	4	26
170	17	4	9	10	11	12	13	5	1
171	17	28	30	31	32	33	34	10	29
172	17	10	34	33	35	36	37	12	11
173	17	31	67	66	68	69	70	33	32
174	17	33	70	69	71	72	73	36	35
175	17	66	115	114	116	117	118	69	68
176	17	69	118	117	119	120	121	72	71
177	17	114	158	157	159	160	161	117	116
178	17	117	161	160	162	163	164	120	119
179	17	157	207	206	208	209	210	160	159
180	17	160	210	209	211	212	213	163	162
181	18	96	0	0	0	0	0	0	0
182	18	54	0	0	0	0	0	0	0



183	19	21	0	0	0	0	0	0	0
184	19	6	0	0	0	0	0	0	0
185	19	13	0	0	0	0	0	0	0
186	19	37	0	0	0	0	0	0	0
187	19	73	0	0	0	0	0	0	0
188	19	121	0	0	0	0	0	0	0
189	19	164	0	0	0	0	0	0	0

PROPIEDADES DE LOS MATERIALES

MATERIAL 1 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.83750E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 2 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.91250E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 3 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.55750E+00
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 4 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.10625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 5 TIPO ELEMENTO 5

MODUL.E 0.30000E+07

COEF.POISSON 0.20000
ESPESOR 0.11375E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 6 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.12125E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 7 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.12875E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 8 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.13625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 9 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.14375E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 10 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.15125E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 11 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.15875E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 12 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.16625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 13 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.17375E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 14 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.18125E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 15 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.18875E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 16 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.19625E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 17 TIPO ELEMENTO 5

MODUL.E 0.30000E+07
COEF.POISSON 0.20000
ESPESOR 0.20000E+01
PUNTOS GAUSS 4
COEF.DILAT.TERM. 0.000000

MATERIAL 18 TIPO ELEMENTO 9
MUELLE A CIMENTACION

RIGIDEZ 6000.00
DIRECCION 0.0000 0.0000 0.0000

CONDICIONES BORDE

NODO	NODO 1	NODO 2	NODO 3
6	0	0	1
13	0	0	1
21	0	0	1
37	0	0	1
54	0	0	1
72	0	0	1
90	0	0	1
121	0	0	1
164	0	0	1

HIPOTESIS DE CARGA N. 1

hipo 1 empuje de tierras

C.U.ELEM.	145	CARGAS	0.040	0.000	0.000
C.U.ELEM.	129	CARGAS	0.110	0.000	0.000
C.U.ELEM.	113	CARGAS	0.190	0.000	0.000
C.U.ELEM.	97	CARGAS	0.260	0.000	0.000
C.U.ELEM.	81	CARGAS	0.340	0.000	0.000
C.U.ELEM.	65	CARGAS	0.410	0.000	0.000
C.U.ELEM.	49	CARGAS	0.490	0.000	0.000
C.U.ELEM.	33	CARGAS	0.560	0.000	0.000
C.U.ELEM.	17	CARGAS	0.630	0.000	0.000
C.U.ELEM.	1	CARGAS	0.710	0.000	0.000
C.U.ELEM.	146	CARGAS	0.060	0.000	0.000
C.U.ELEM.	130	CARGAS	0.180	0.000	0.000
C.U.ELEM.	114	CARGAS	0.290	0.000	0.000
C.U.ELEM.	98	CARGAS	0.410	0.000	0.000
C.U.ELEM.	82	CARGAS	0.530	0.000	0.000
C.U.ELEM.	66	CARGAS	0.640	0.000	0.000
C.U.ELEM.	50	CARGAS	0.760	0.000	0.000
C.U.ELEM.	34	CARGAS	0.880	0.000	0.000
C.U.ELEM.	18	CARGAS	1.000	0.000	0.000
C.U.ELEM.	2	CARGAS	1.110	0.000	0.000
C.U.ELEM.	147	CARGAS	0.080	0.000	0.000

C.U.ELEM.	131	CARGAS	0.240	0.000	0.000
C.U.ELEM.	115	CARGAS	0.400	0.000	0.000
C.U.ELEM.	99	CARGAS	0.560	0.000	0.000
C.U.ELEM.	83	CARGAS	0.720	0.000	0.000
C.U.ELEM.	67	CARGAS	0.880	0.000	0.000
C.U.ELEM.	51	CARGAS	1.040	0.000	0.000
C.U.ELEM.	35	CARGAS	1.200	0.000	0.000
C.U.ELEM.	19	CARGAS	1.360	0.000	0.000
C.U.ELEM.	3	CARGAS	1.520	0.000	0.000
C.U.ELEM.	148	CARGAS	0.100	0.000	0.000
C.U.ELEM.	132	CARGAS	0.300	0.000	0.000
C.U.ELEM.	116	CARGAS	0.510	0.000	0.000
C.U.ELEM.	100	CARGAS	0.710	0.000	0.000
C.U.ELEM.	84	CARGAS	0.910	0.000	0.000
C.U.ELEM.	68	CARGAS	1.110	0.000	0.000
C.U.ELEM.	52	CARGAS	1.310	0.000	0.000
C.U.ELEM.	36	CARGAS	1.520	0.000	0.000
C.U.ELEM.	20	CARGAS	1.720	0.000	0.000
C.U.ELEM.	4	CARGAS	1.920	0.000	0.000
C.U.ELEM.	149	CARGAS	0.120	0.000	0.000
C.U.ELEM.	133	CARGAS	0.370	0.000	0.000
C.U.ELEM.	117	CARGAS	0.610	0.000	0.000
C.U.ELEM.	101	CARGAS	0.860	0.000	0.000
C.U.ELEM.	85	CARGAS	1.100	0.000	0.000
C.U.ELEM.	69	CARGAS	1.350	0.000	0.000
C.U.ELEM.	53	CARGAS	1.590	0.000	0.000
C.U.ELEM.	37	CARGAS	1.830	0.000	0.000
C.U.ELEM.	21	CARGAS	2.080	0.000	0.000
C.U.ELEM.	5	CARGAS	2.320	0.000	0.000
C.U.ELEM.	150	CARGAS	0.140	0.000	0.000
C.U.ELEM.	134	CARGAS	0.430	0.000	0.000
C.U.ELEM.	118	CARGAS	0.720	0.000	0.000
C.U.ELEM.	102	CARGAS	1.000	0.000	0.000
C.U.ELEM.	86	CARGAS	1.290	0.000	0.000
C.U.ELEM.	70	CARGAS	1.580	0.000	0.000
C.U.ELEM.	54	CARGAS	1.870	0.000	0.000
C.U.ELEM.	38	CARGAS	2.150	0.000	0.000
C.U.ELEM.	22	CARGAS	2.440	0.000	0.000
C.U.ELEM.	6	CARGAS	2.730	0.000	0.000
C.U.ELEM.	151	CARGAS	0.160	0.000	0.000
C.U.ELEM.	135	CARGAS	0.490	0.000	0.000
C.U.ELEM.	119	CARGAS	0.820	0.000	0.000
C.U.ELEM.	103	CARGAS	1.150	0.000	0.000
C.U.ELEM.	87	CARGAS	1.480	0.000	0.000
C.U.ELEM.	71	CARGAS	1.810	0.000	0.000
C.U.ELEM.	55	CARGAS	2.140	0.000	0.000
C.U.ELEM.	39	CARGAS	2.470	0.000	0.000
C.U.ELEM.	23	CARGAS	2.800	0.000	0.000
C.U.ELEM.	7	CARGAS	3.130	0.000	0.000
C.U.ELEM.	152	CARGAS	0.190	0.000	0.000
C.U.ELEM.	136	CARGAS	0.560	0.000	0.000
C.U.ELEM.	120	CARGAS	0.930	0.000	0.000
C.U.ELEM.	104	CARGAS	1.300	0.000	0.000
C.U.ELEM.	88	CARGAS	1.670	0.000	0.000
C.U.ELEM.	72	CARGAS	2.050	0.000	0.000
C.U.ELEM.	56	CARGAS	2.420	0.000	0.000
C.U.ELEM.	40	CARGAS	2.790	0.000	0.000
C.U.ELEM.	24	CARGAS	3.160	0.000	0.000

.E.EM.	9	CARGAS	3.530	0.000	0.000
..E.EM.	154	CARGAS	0.310	0.000	0.000
..E.EM.	137	CARGAS	0.120	0.000	0.000
..E.EM.	121	CARGAS	1.140	0.000	0.000
..E.EM.	105	CARGAS	1.450	0.000	0.000
..E.EM.	89	CARGAS	1.370	0.000	0.000
.E.EM.	73	CARGAS	2.290	0.000	0.000
.E.EM.	57	CARGAS	3.690	0.000	0.000
..E.EM.	41	CARGAS	3.110	0.000	0.000
..E.EM.	25	CARGAS	3.520	0.000	0.000
E.E..	9	CARGAS	3.040	0.000	0.000
.E.E..	13	CARGAS	1.230	0.000	0.000
.E.E..	28	CARGAS	0.600	0.000	0.000
..E.EM.	162	CARGAS	1.140	0.000	0.000
.E.EM.	146	CARGAS	1.000	0.000	0.000
.E.E..	90	CARGAS	3.060	0.000	0.000
.E.E..	74	CARGAS	3.810	0.000	0.000
.E.EM.	58	CARGAS	3.970	0.000	0.000
E.E..	42	CARGAS	3.420	0.000	0.000
E.EM.	26	CARGAS	3.950	0.000	0.000
E.E..	10	CARGAS	4.340	0.000	0.000
..EM.	154	CARGAS	1.350	0.000	0.000
E.EM.	138	CARGAS	0.750	0.000	0.000
E.E..	82	CARGAS	1.350	0.000	0.000
.E..	67	CARGAS	1.750	0.000	0.000
E..	51	CARGAS	3.150	0.000	0.000
E..	35	CARGAS	4.750	0.000	0.000
E..	19	CARGAS	3.350	0.000	0.000
E.EM.	43	CARGAS	3.750	0.000	0.000
E.E..	27	CARGAS	4.350	0.000	0.000
E.E..	11	CARGAS	4.740	0.000	0.000
E.E..	156	CARGAS	1.570	0.000	0.000
E.O..	141	CARGAS	1.970	0.000	0.000
E.EM.	125	CARGAS	1.750	0.000	0.000
E.O..	109	CARGAS	2.150	0.000	0.000
E.E..	93	CARGAS	2.750	0.000	0.000
E.EM.	77	CARGAS	3.150	0.000	0.000
E.E..	61	CARGAS	3.750	0.000	0.000
E.E..	45	CARGAS	4.350	0.000	0.000
E.EM.	29	CARGAS	4.750	0.000	0.000
E.E..	13	CARGAS	5.350	0.000	0.000
E.E..	158	CARGAS	0.310	0.000	0.000
E.E..	142	CARGAS	0.940	0.000	0.000
E.E..	126	CARGAS	1.570	0.000	0.000
E.E..	110	CARGAS	2.190	0.000	0.000
E.E..	94	CARGAS	2.820	0.000	0.000
E.E..	78	CARGAS	3.450	0.000	0.000
E.E..	62	CARGAS	4.070	0.000	0.000

...ELEM.	[illegible]	CARGAS	4.700	0.000	0.000
...ELEM.	[illegible]	CARGAS	5.330	0.000	0.000
...ELEM.	[illegible]	CARGAS	[illegible]	0.000	0.000
...ELEM.	[illegible]	CARGAS	[illegible]	0.000	0.000
...ELEM.	[illegible]	CARGAS	[illegible]	0.000	0.000
...ELEM.	[illegible]	CARGAS	1.470	0.000	0.000
...ELEM.	[illegible]	CARGAS	2.240	0.000	0.000
...ELEM.	[illegible]	CARGAS	3.010	0.000	0.000
...ELEM.	[illegible]	CARGAS	3.880	0.000	0.000
...ELEM.	[illegible]	CARGAS	4.350	0.000	0.000
...ELEM.	[illegible]	CARGAS	[illegible]

elef Viaducto sobre el Ebro -alete estribo 2-

Hipo 1 empuje de tierras hP@1

HIPOTESIS NUMERO 1

DESPLAZAMIENTOS DE LOS NODOS

NUDO	DESP. Z	GIRO X	GIRO Y
1	0.011759	-0.002011	-0.000191
2	0.014606	-0.001992	-0.000163
3	0.013429	-0.002002	-0.000219
4	0.011819	-0.002015	-0.000148
5	0.011713	-0.002011	-0.000232
6	0.013002	-0.002001	0.000000
7	0.014493	-0.001988	-0.000257
8	0.013528	-0.001990	-0.000211
9	0.011841	-0.002035	-0.000198
10	0.011547	-0.002036	-0.000133
11	0.009048	-0.002036	-0.000171
12	0.009518	-0.002029	-0.000207
13	0.010307	-0.002024	0.000000
14	0.012998	-0.001977	-0.000352
15	0.016316	-0.001934	-0.000325
16	0.014815	-0.002001	-0.000323
17	0.014718	-0.001998	-0.000244
18	0.011992	-0.001980	-0.000241
19	0.017363	-0.001972	-0.000176
20	0.017470	-0.001974	-0.000266
21	0.015950	-0.001986	0.000000
22	0.017239	-0.001969	-0.000285
23	0.017390	-0.001964	-0.000233
24	0.013417	-0.002012	-0.000298
25	0.012611	-0.002024	-0.000295
26	0.011906	-0.002019	-0.000223
27	0.010595	-0.002035	-0.000271
28	0.009173	-0.002045	-0.000267
29	0.009079	-0.002043	-0.000201
30	0.007741	-0.002061	-0.000245
31	0.006300	-0.002075	-0.000240
32	0.006217	-0.002070	-0.000180
33	0.006149	-0.002067	-0.000119
34	0.007583	-0.002051	-0.000177
35	0.006101	-0.002064	-0.000152
36	0.006069	-0.002063	-0.000182
37	0.007487	-0.002050	0.000000
38	0.021325	-0.001982	-0.000596
39	0.020012	-0.001997	-0.000583
40	0.018687	-0.002011	-0.000563
41	0.018099	-0.001993	-0.000464
42	0.018974	-0.001964	-0.000352

43	0.020346	-0.001949	-0.000377
44	0.020792	-0.001985	-0.000495
45	0.017358	-0.002033	-0.000549
46	0.016119	-0.002054	-0.000527
47	0.015377	-0.002017	-0.000432
48	0.016738	-0.001951	-0.000262
49	0.020087	-0.001933	-0.000190
50	0.020266	-0.001976	-0.000286
51	0.014976	-0.002045	-0.000512
52	0.012327	-0.002056	-0.000490
53	0.012636	-0.002038	-0.000398
54	0.013579	-0.001951	0.000000
55	0.013959	-0.001987	-0.000322
56	0.020009	-0.001949	-0.000257
57	0.011367	-0.002066	-0.000474
58	0.010603	-0.002077	-0.000452
59	0.009648	-0.002061	-0.000363
60	0.009830	-0.002089	-0.000436
61	0.007958	-0.002100	-0.000415
62	0.007027	-0.002086	-0.000330
63	0.006461	-0.002112	-0.000399
64	0.006070	-0.002125	-0.000380
65	0.004192	-0.002113	-0.000300
66	0.003385	-0.002106	-0.000216
67	0.004646	-0.002090	-0.000220
68	0.003218	-0.002102	-0.000162
69	0.003252	-0.002099	-0.000107
70	0.004758	-0.002081	-0.000158
71	0.003209	-0.002097	-0.000135
72	0.007161	-0.002095	-0.000161
73	0.004886	-0.002090	0.000000
74	0.023123	-0.002004	-0.000800
75	0.023783	-0.002017	-0.000805
76	0.023425	-0.002033	-0.000793
77	0.021943	-0.002057	-0.000701
78	0.023630	-0.001968	-0.000611
79	0.023921	-0.001949	-0.000601
80	0.024499	-0.001976	-0.000707
81	0.021764	-0.001987	-0.000379
82	0.023052	-0.001919	-0.000395
83	0.023441	-0.001927	-0.000503
84	0.021373	-0.002043	-0.000776
85	0.020105	-0.002055	-0.000758
86	0.019357	-0.002033	-0.000666
87	0.018368	-0.002067	-0.000737
88	0.017544	-0.002079	-0.000718
89	0.016741	-0.002057	-0.000628
90	0.021450	-0.001917	-0.000297
91	0.022770	-0.001850	-0.000218
92	0.022901	-0.001898	-0.000308
93	0.016253	-0.002089	-0.000697
94	0.014956	-0.002100	-0.000677
95	0.014103	-0.002078	-0.000588
96	0.021257	-0.001961	0.000000
97	0.022624	-0.002077	-0.000460
98	0.022689	-0.001878	-0.000337
99	0.013652	-0.002110	-0.000655
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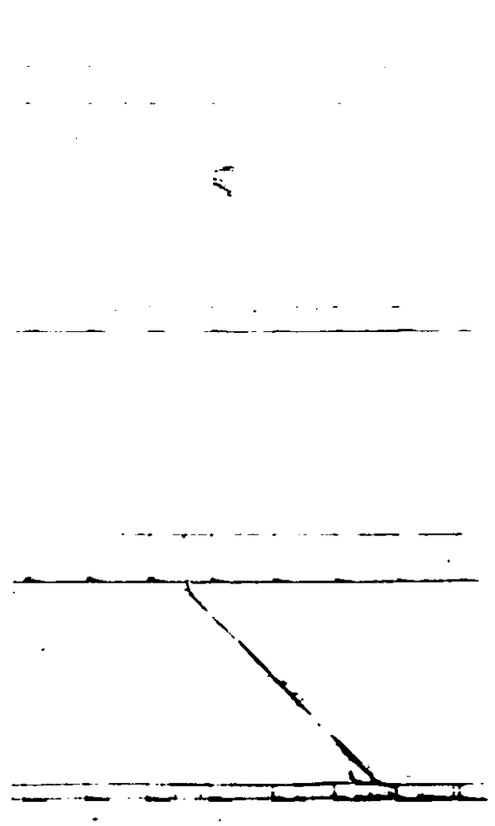
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144	0.008740	-0.002121	-0.000507
145	0.008777	-0.002131	-0.000571
146	0.007048	-0.002162	-0.000551
147	0.006619	-0.002142	-0.000468
148	0.005706	-0.002172	-0.000530
149	0.004353	-0.002188	-0.000511
150	0.002270	-0.002165	-0.000430
151	0.002353	-0.002149	-0.000348
152	0.003465	-0.002137	-0.000365
153	0.001308	-0.002141	-0.000274
154	0.000425	-0.002138	-0.000197
155	0.001211	-0.002122	-0.000200
156	0.000357	-0.002137	-0.000151
157	0.000207	-0.002135	-0.000101
158	0.001795	-0.002115	-0.000142
159	0.001263	-0.002130	-0.000123
160	0.000836	-0.002134	-0.000144
161	0.001715	-0.002115	0.000000
162	0.002831	-0.002061	-0.000968
163	0.002436	-0.002078	-0.000974
164	0.002336	-0.002087	-0.000962
165	0.001401	-0.002058	-0.000883
166	0.002640	-0.002032	-0.000889
167	0.002794	-0.002085	-0.000945
168	0.001791	-0.002101	-0.000925
169	0.002183	-0.002080	-0.000947
170	0.001338	-0.002117	-0.000906
171	0.001951	-0.002121	-0.000885
172	0.001415	-0.002105	-0.000806
173	0.001821	-0.002131	-0.000865
174	0.001772	-0.002181	-0.000844
175	0.001993	-0.002131	-0.000765
176	0.001821	-0.002161	-0.000823
177	0.001479	-0.002179	-0.000802
178	0.001285	-0.002146	-0.000722
179	0.001815	-0.002130	-0.000781
180	0.001857	-0.002185	-0.000760
181	0.001742	-0.002166	-0.000680
182	0.001582	-0.002199	-0.000739
183	0.002307	-0.002208	-0.000718
184	0.003138	-0.002186	-0.000637
185	0.003135	-0.002217	-0.000697
186	0.003739	-0.002229	-0.000676
187	0.003503	-0.002204	-0.000595
188	0.003449	-0.002233	-0.000655
189	0.004151	-0.002240	-0.000633
190	0.003258	-0.002221	-0.000553
191	0.001639	-0.002200	-0.000470
192	0.002999	-0.002191	-0.000490
193	0.000491	-0.002185	-0.000393
194	-0.000590	-0.002172	-0.000318
195	0.000838	-0.002161	-0.000334
196	-0.001608	-0.002168	-0.000256
197	-0.002577	-0.002170	-0.000203
198	-0.001072	-0.002157	-0.000195

159	-0.002646	-0.002174	-0.000174
160	-0.002707	-0.002177	-0.000145
161	-0.001198	-0.002152	-0.000139
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163	-0.002907	-0.002133	-0.000172
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169	0.024475	-0.002092	-0.001046
170	0.024928	-0.002150	-0.001092
171	0.023768	-0.002160	-0.001074
172	0.022758	-0.002135	-0.001004
173	0.022601	-0.002171	-0.001055
174	0.021429	-0.002181	-0.001036
175	0.020363	-0.002156	-0.000965
176	0.020253	-0.002191	-0.001016
177	0.019070	-0.002202	-0.000997
178	0.017943	-0.002177	-0.000924
179	0.017880	-0.002212	-0.000977
180	0.016686	-0.002221	-0.000957
181	0.015500	-0.002197	-0.000883
182	0.015488	-0.002231	-0.000937
183	0.014283	-0.002240	-0.000918
184	0.013035	-0.002216	-0.000842
185	0.013074	-0.002248	-0.000898
186	0.011859	-0.002257	-0.000878
187	0.010549	-0.002234	-0.000801
188	0.010143	-0.002265	-0.000859
189	0.009420	-0.002272	-0.000839
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192	0.006963	-0.002285	-0.000799
193	0.005519	-0.002264	-0.000719
194	0.005729	-0.002290	-0.000776
195	0.004491	-0.002290	-0.000746
196	0.003980	-0.002270	-0.000663
197	0.001547	-0.002246	-0.000577
198	0.002851	-0.002245	-0.000609
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201	0.000273	-0.002206	-0.000446
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206	-0.005612	-0.002178	-0.000210
207	-0.004091	-0.002179	-0.000204
208	-0.005682	-0.002179	-0.000198
209	-0.005751	-0.002180	-0.000190
210	-0.004225	-0.002174	-0.000195
211	-0.005814	-0.002171	-0.000199
212	-0.005885	-0.002168	-0.000210
213	-0.004356	-0.002159	-0.000183
214	0.030329	-0.002184	-0.001240
215	0.029242	-0.002191	-0.001246
216	0.028151	-0.002198	-0.001236

217	0.027090	-0.002171	-0.001177
218	0.029328	-0.002153	-0.001181
219	0.027053	-0.002206	-0.001222
220	0.025954	-0.002215	-0.001205
221	0.024934	-0.002190	-0.001144
222	0.024949	-0.002224	-0.001187
223	0.023740	-0.002234	-0.001170
224	0.022557	-0.002210	-0.001107
225	0.022629	-0.002244	-0.001152
226	0.021504	-0.002253	-0.001134
227	0.020258	-0.002230	-0.001069
228	0.020380	-0.002263	-0.001117
229	0.019251	-0.002272	-0.001099
230	0.017938	-0.002249	-0.001032
231	0.018117	-0.002280	-0.001082
232	0.016979	-0.002289	-0.001064
233	0.015598	-0.002267	-0.000994
234	0.015837	-0.002297	-0.001047
235	0.014689	-0.002305	-0.001029
236	0.013241	-0.002283	-0.000957
237	0.013539	-0.002312	-0.001012
238	0.012385	-0.002319	-0.000995
239	0.010867	-0.002298	-0.000920
240	0.011228	-0.002325	-0.000977
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242	0.008480	-0.002310	-0.000882
243	0.008903	-0.002334	-0.000939
244	0.007738	-0.002334	-0.000912
245	0.006579	-0.002315	-0.000832
246	0.035462	-0.002243	-0.001349
247	0.034436	-0.002249	-0.001355
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249	0.032357	-0.002259	-0.001295
250	0.031375	-0.002314	-0.001299
251	0.029377	-0.002261	-0.001334
252	0.029341	-0.002269	-0.001320
253	0.027124	-0.002244	-0.001266
254	0.027303	-0.002277	-0.001304
255	0.026260	-0.002285	-0.001289
256	0.024976	-0.002262	-0.001233
257	0.025314	-0.002294	-0.001274
258	0.024162	-0.002302	-0.001258
259	0.022908	-0.002280	-0.001200
260	0.023106	-0.002311	-0.001243
261	0.022049	-0.002319	-0.001228
262	0.020622	-0.002298	-0.001167
263	0.020985	-0.002327	-0.001213
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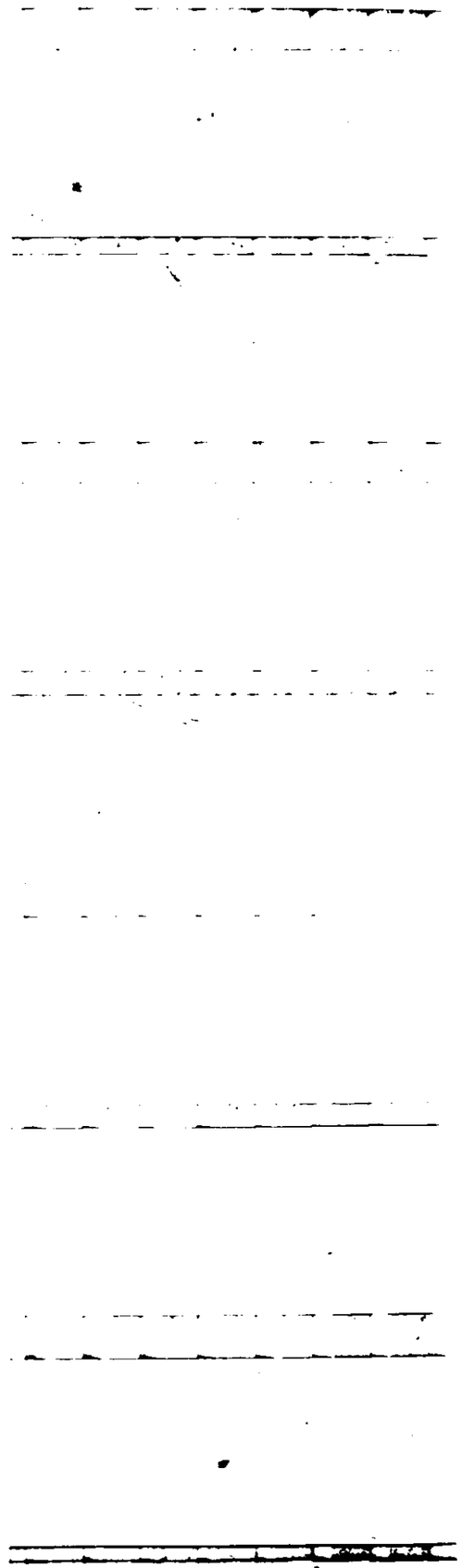
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[illegible]	3	22.[illegible]	0.[illegible]3	0.21	-0.01	-0.11	-0.81	-0.04	0.81	-22.[illegible]0	[illegible]	[illegible]
[illegible]	4	25.64	0.04	0.25	0.00	-0.01	-1.02	-0.04	1.02	-2.36	[illegible]	[illegible]
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2	3	24.78	0.16	0.38	-0.01	-0.17	-1.13	0.03	1.13	20.36	[illegible]	[illegible]
2	3	24.05	0.20	0.78	0.00	-0.37	-1.84	-0.01	1.84	-21.49	[illegible]	[illegible]
2	4	24.05	0.05	0.82	0.02	-0.08	-2.67	-0.01	2.67	-5.92	[illegible]	[illegible]
3	1	22.27	0.06	1.28	-0.03	-0.22	-3.82	0.04	3.82	-9.41	1.38	-0.07
3	2	23.37	0.22	1.24	-0.06	-0.56	-2.49	-0.06	2.49	20.29	1.45	-0.27
3	3	22.46	0.26	2.15	-0.02	-0.93	-3.36	-0.07	3.36	-20.47	2.50	-0.37
3	4	22.46	0.07	2.20	0.03	-0.29	-5.37	0.07	5.37	-7.48	2.24	-0.01
4	1	21.78	0.08	3.04	-0.07	-0.48	-6.75	0.00	6.75	-8.53	3.12	-0.14
4	2	21.78	0.29	2.97	-0.15	-1.29	-4.06	0.09	4.06	19.75	3.43	-0.62
4	3	20.87	0.32	4.42	-0.06	-1.93	-5.16	-0.14	5.16	-20.38	5.14	-0.78
4	4	20.87	0.09	4.52	0.06	-0.65	-8.97	-0.09	8.97	-8.14	4.61	-0.04
5	1	20.19	0.09	5.84	-0.12	-0.93	-10.94	-0.05	10.94	-8.67	5.98	-0.26
5	2	20.19	0.35	5.72	-0.29	-2.52	-6.12	-0.17	6.13	19.99	6.64	-1.21
5	3	19.28	0.39	7.95	-0.13	-3.47	-7.36	-0.20	7.37	-20.36	9.24	-1.41

		19.28	0.10	8.09	0.08	-1.23	-13.66	-0.14	13.66	-3.54	8.37	-0.10
		19.60	0.11	10.00	-0.18	-1.60	-15.85	0.14	15.85	-5.71	10.24	-0.47
		18.20	0.41	9.92	-0.40	-4.31	-8.29	-0.29	8.29	-10.03	11.35	-2.03
		17.39	0.45	12.89	-0.23	-5.60	-9.70	-0.36	9.71	-10.24	14.90	-2.29
		17.60	0.12	13.10	0.11	-2.04	-19.13	-0.19	19.13	-5.01	13.32	-0.87
		17.01	0.13	15.71	-0.26	-3.52	-21.69	0.20	21.68	-8.76	16.10	-1.09
		17.01	0.48	15.46	-0.70	-6.72	-10.73	-0.38	10.74	-19.69	17.80	-3.13
		16.10	0.51	19.59	-0.36	-8.40	-12.31	-0.48	12.31	-20.05	22.66	-3.42
		16.10	0.14	19.89	0.13	-3.13	-25.44	-0.24	25.45	-9.74	20.32	-0.35
		15.42	0.15	23.37	-0.36	-3.74	-28.34	-0.23	28.34	-9.75	23.94	-0.94
		15.42	0.54	23.09	-0.98	-9.83	-13.43	-0.53	13.44	-19.87	23.52	-4.47
		14.51	0.58	28.46	-0.51	-11.89	-15.13	-0.55	15.14	-19.69	32.72	-4.70
		14.91	0.16	29.96	0.16	-4.51	-32.52	-0.30	32.52	-9.73	29.56	-0.82
		13.92	0.16	33.40	-0.47	-5.24	-35.68	-0.27	35.68	-9.60	34.13	-1.27
		13.82	0.61	32.94	-1.28	-13.62	-16.31	-0.62	16.32	-19.26	37.70	-6.04
		12.93	0.64	39.97	-0.62	-16.01	-18.18	-0.59	18.19	-19.14	45.32	-6.11
		12.92	0.17	40.49	0.22	-6.17	-40.21	-0.28	40.21	-8.51	41.42	-0.70
		12.24	0.19	46.32	-0.61	-7.00	-43.60	-0.33	43.60	-9.31	47.34	-1.03
		11.84	0.67	45.73	-1.58	-19.00	-19.48	-0.61	19.49	-18.64	51.80	-7.19
		11.31	0.71	54.71	-0.69	-20.64	-21.49	-0.57	21.50	-18.35	61.20	-7.74
		11.32	0.19	58.39	0.30	-8.06	-48.32	-0.31	48.32	-9.15	56.54	-2.61
		11.35	0.20	62.82	-0.73	-9.96	-51.82	-0.27	51.82	-7.88	60.03	-2.17
		10.82	0.73	62.09	-1.81	-22.80	-22.93	-0.59	22.94	-17.79	69.29	-8.11
		10.74	0.77	73.55	-0.58	-25.53	-25.16	-0.47	25.16	-17.28	81.41	-8.58
		10.74	0.21	74.38	0.38	-10.05	-56.62	-0.29	56.62	-7.69	75.72	-2.91
		10.66	0.21	83.87	-0.90	-10.99	-60.17	-0.22	60.17	-7.27	85.27	-3.01
		10.02	0.20	92.99	-1.91	-27.69	-26.77	-0.36	26.78	-16.56	91.32	-11.14
		9.95	0.13	97.66	-0.34	-30.18	-29.34	-0.25	29.34	-15.82	106.32	-8.00
		9.93	0.22	98.69	0.67	-12.10	-64.79	-0.04	64.79	-8.94	100.17	-4.43
		9.87	0.23	110.87	-0.93	-12.90	-68.16	-0.04	68.16	-8.50	111.34	-5.14
		9.41	0.26	109.90	-1.64	-32.17	-31.19	-0.02	31.19	-15.30	118.42	-10.44
		9.39	0.21	128.76	0.80	-34.34	-34.11	0.07	34.11	-14.11	137.49	-8.24
		9.31	0.24	129.98	0.46	-13.56	-72.63	-0.16	72.63	-8.01	121.38	-4.94
		9.31	0.29	145.74	-1.34	-14.41	-75.70	0.36	75.70	-9.24	147.12	-12.12
		9.31	0.17	144.62	-1.21	-35.51	-36.42	0.61	36.42	-15.79	155.3	-11.41
		9.27	0.36	169.16	0.91	-35.59	-40.32	0.49	40.38	-15.47	171.49	-15.11
		9.27	0.36	170.59	2.72	-15.45	-79.02	1.48	79.04	-8.58	171.83	-9.11
		9.25	0.37	191.01	-0.24	-15.00	-81.44	0.42	81.44	-9.48	188.12	-11.01
		9.21	0.39	189.44	0.99	-36.54	-42.69	1.59	42.72	-15.66	193.87	-8.97
		9.18	1.03	221.64	8.68	-39.34	-46.17	4.37	46.37	-10.14	238.38	-1.13
		9.14	0.37	222.73	-3.07	-12.08	-84.81	-1.89	84.83	-9.05	283.31	-8.71
		8.70	0.38	247.71	-5.22	-16.10	-84.76	5.01	84.99	-2.63	340.72	-13.24
		8.68	1.05	248.89	-0.16	-35.93	-49.86	5.58	50.18	-9.05	283.31	-8.24
		8.71	1.09	292.50	-3.33	-22.61	-59.75	4.62	59.93	-4.38	354.81	-15.03
		8.69	0.29	282.60	22.96	-22.66	-77.91	11.42	78.74	-4.95	284.50	21.19
		26.55	0.14	0.08	-0.01	-0.04	-0.34	0.03	0.35	-30.45	0.09	-0.02
		26.55	0.21	0.06	-0.01	-0.05	-0.35	0.05	0.36	-28.69	0.07	-0.04
		25.64	0.30	0.22	-0.02	-0.18	-0.49	0.05	0.49	-28.11	0.31	-0.12
		25.64	0.20	0.20	-0.02	-0.15	-0.67	0.01	0.67	-26.66	0.26	-0.09
		24.96	0.24	0.38	-0.02	-0.23	-0.91	0.04	0.91	-24.23	0.48	-0.12
		24.96	0.36	0.36	-0.04	-0.29	-0.71	0.06	0.71	-27.39	0.51	-0.19
		24.05	0.44	0.81	-0.05	-0.57	-1.05	0.13	1.06	-26.43	1.09	-0.33
		24.05	0.30	0.78	-0.03	-0.48	-1.44	0.06	1.44	-24.81	1.00	-0.25
		23.37	0.34	1.25	-0.10	-0.71	-1.92	0.02	1.92	-23.28	1.35	-0.41
		23.37	0.50	1.25	-0.16	-0.85	-1.38	0.10	1.39	-25.25	1.66	-0.56
		22.46	0.59	2.19	-0.18	-1.37	-1.81	0.08	1.81	-24.53	2.31	-0.81
		22.46	0.40	2.15	-0.10	-1.18	-2.54	0.03	2.55	-23.23	2.66	-0.60
		21.78	0.44	2.99	-0.25	-1.58	-3.03	-0.05	3.03	-22.15	3.63	-0.90

30	3	31.79	0.65	3.02	-0.39	-1.85	-2.10	0.08	2.11	-23.61	3.32	-1.20
30	4	30.87	0.77	4.51	-0.46	-2.70	-2.64	0.19	2.85	-22.53	5.71	-1.64
31	1	30.37	0.50	4.44	-0.23	-2.37	-3.76	-0.03	3.79	-22.77	3.47	-1.03
31	2	29.16	0.54	5.76	-0.29	-3.04	-4.49	-0.06	4.48	-23.09	4.11	-1.28
31	3	30.13	0.79	5.84	-0.75	-3.47	-3.06	0.14	3.06	-23.21	7.33	-2.24
31	4	30.76	0.88	8.09	-0.72	-4.67	-5.62	0.11	5.63	-22.34	10.10	-3.14
32	1	19.28	0.55	7.98	-0.41	-4.17	-5.30	-0.06	5.31	-22.44	6.73	-2.10
32	2	18.60	0.64	9.88	-0.80	-5.08	-5.94	-0.16	5.95	-21.79	11.91	-3.64
32	3	18.66	0.94	9.95	-1.24	-5.70	-4.04	0.14	4.05	-22.78	12.34	-3.83
32	4	17.49	1.02	12.10	-1.17	-7.31	-4.72	0.25	4.72	-22.85	16.18	-4.85
33	1	17.60	0.69	10.95	-0.67	-6.61	-6.95	-0.10	6.95	-22.09	10.60	-3.38
33	2	17.01	0.73	15.56	-1.23	-7.81	-7.68	-0.16	7.69	-21.47	19.47	-6.24
33	3	17.01	1.08	15.70	-1.88	-8.65	-5.21	0.28	5.21	-22.27	19.28	-6.45
33	4	16.10	1.17	19.86	-1.71	-10.69	-6.01	0.37	6.02	-22.37	24.24	-8.12
34	1	16.10	0.79	19.67	-1.00	-9.75	-8.77	-0.09	8.77	-21.67	23.35	-7.87
34	2	15.42	0.83	23.14	-1.74	-11.25	-9.65	-0.18	9.65	-21.06	27.47	-9.31
34	3	15.42	1.23	23.32	-2.63	-12.35	-6.61	0.36	6.62	-21.79	28.26	-9.77
34	4	14.51	1.31	28.77	-2.29	-14.80	-7.55	0.51	7.57	-21.91	34.81	-11.81
35	1	14.21	0.89	28.56	-1.36	-13.61	-10.89	-0.09	10.89	-21.14	33.30	-10.18
35	2	13.33	0.93	33.07	-2.28	-15.38	-11.87	-0.06	11.87	-20.51	38.82	-12.97
35	3	13.83	1.37	33.26	-3.41	-16.76	-8.27	0.54	8.29	-21.22	39.77	-13.18
35	4	12.92	1.46	40.26	-2.82	-19.57	-9.39	0.69	9.41	-21.13	47.92	-16.11
36	1	12.82	0.99	40.07	-1.69	-18.11	-13.25	-0.01	13.25	-20.47	46.93	-15.45
36	2	12.24	1.13	45.82	-2.80	-20.10	-14.40	0.01	14.40	-19.79	53.09	-17.77
36	3	12.34	1.52	45.98	-4.11	-21.77	-10.26	0.82	10.29	-20.50	54.13	-18.19
36	4	11.33	1.80	54.87	-3.17	-24.84	-11.64	0.90	11.68	-20.28	64.12	-21.62
37	1	11.33	1.09	54.78	-1.91	-23.11	-15.99	0.10	15.99	-19.66	63.01	-21.25
37	2	10.68	1.17	62.10	-3.19	-25.19	-17.33	0.19	17.33	-18.83	70.13	-23.77
37	3	10.83	1.38	62.12	-4.56	-27.17	-12.71	1.98	12.75	-19.59	71.71	-24.37
37	4	10.14	1.75	73.37	-3.10	-30.30	-14.46	1.21	14.51	-19.80	82.84	-28.04
38	1	9.71	1.18	73.49	-1.88	-28.28	-19.22	0.35	19.23	-18.45	82.11	-27.79
38	2	9.71	1.87	82.81	-3.25	-30.31	-20.85	0.48	20.88	-17.58	93.42	-31.62
38	3	9.41	1.91	83.50	-4.47	-32.57	-15.86	1.36	15.92	-18.47	94.27	-31.91
38	4	8.63	1.89	94.84	-2.30	-35.40	-18.09	1.40	18.15	-17.67	107.07	-36.24
39	1	8.97	1.68	97.39	-1.32	-33.23	-23.13	0.61	23.14	-16.95	110.31	-37.34
39	2	8.47	1.38	109.35	-2.72	-34.91	-25.19	0.81	25.21	-16.98	123.81	-41.91
39	3	7.47	1.95	108.55	-3.48	-37.38	-19.92	1.67	19.98	-16.86	123.91	-41.94
39	4	7.50	2.04	120.77	-0.36	-39.68	-22.87	1.68	22.93	-15.99	136.73	-46.28
40	1	7.38	1.38	128.06	-0.16	-37.03	-28.07	0.99	28.08	-15.07	137.31	-46.48
40	2	6.86	1.42	143.36	-1.35	-38.08	-30.48	1.29	30.51	-13.88	152.71	-51.70
40	3	6.80	2.10	141.78	-1.06	-40.73	-25.37	1.80	25.47	-14.35	153.21	-51.88
41	1	4.67	2.18	165.57	3.58	-40.98	-29.46	1.46	29.50	-13.42	175.34	-59.31
41	2	4.97	1.48	167.82	2.74	-39.74	-34.29	1.77	34.34	-12.86	179.91	-60.91
41	3	4.90	1.52	188.21	1.92	-39.21	-38.16	2.09	38.22	-11.41	200.76	-67.81
41	4	4.89	2.24	185.17	3.65	-41.79	-32.73	1.76	32.78	-12.36	198.55	-67.21
42	1	3.38	2.33	215.93	9.10	-43.41	-38.84	2.65	38.93	-11.39	234.11	-79.25
42	2	3.38	1.58	219.84	5.92	-36.24	-42.79	2.39	42.86	-9.36	235.81	-79.85
42	3	3.18	1.62	240.39	6.27	-35.92	-46.91	4.49	47.12	-8.93	251.55	-85.01
42	4	2.70	2.39	243.01	11.59	-38.46	-45.28	1.78	45.32	-9.19	249.33	-84.36
43	1	1.79	2.47	290.29	23.76	-21.71	-55.22	-6.32	55.58	-4.63	298.04	-100.91
43	2	1.79	1.67	293.34	16.02	-44.78	-59.15	5.92	59.45	-8.95	300.31	-101.67
33	1	26.55	0.26	0.06	-0.02	-0.06	-0.37	0.06	0.37	-28.13	0.09	-0.05
33	2	26.55	0.33	0.07	-0.02	-0.07	-0.39	0.15	0.42	-29.26	0.11	-0.06
33	3	25.64	0.46	0.22	-0.02	-0.22	-0.27	0.16	0.31	-30.68	0.35	-0.15
33	4	25.64	0.37	0.22	-0.02	-0.20	-0.37	0.11	0.39	-29.42	0.33	-0.14
34	1	24.96	0.44	0.37	-0.05	-0.31	-0.61	0.13	0.63	-27.83	0.54	-0.21
34	2	24.96	0.56	0.40	-0.05	-0.33	-0.53	0.19	0.56	-27.75	0.57	-0.23
34	3	24.05	0.69	0.85	-0.10	-0.64	-0.66	0.22	0.69	-26.78	1.18	-0.42

34	4	24.05	0.55	0.82	-0.07	-0.61	-0.86	0.17	0.88	-26.82	1.13	-0.38
35	1	23.37	0.62	1.28	-0.19	-0.90	-1.15	0.18	1.16	-25.39	1.71	-0.62
35	2	23.37	0.78	1.33	-0.24	-0.93	-0.96	0.24	0.99	-25.00	1.76	-0.65
35	3	22.46	0.91	2.30	-0.32	-1.48	-1.22	0.31	1.26	-24.21	2.96	-0.99
35	4	22.46	0.73	2.23	-0.25	-1.43	-1.51	0.19	1.52	-24.49	2.99	-0.91
36	1	21.78	0.80	3.08	-0.49	-1.93	-1.79	0.17	1.80	-23.60	3.92	-1.33
36	2	21.78	1.01	3.18	-0.60	-1.97	-1.48	0.41	1.54	-23.11	4.02	-1.44
36	3	20.87	1.14	4.75	-0.66	-2.85	-1.83	0.56	1.91	-23.25	5.37	-1.89
36	4	20.87	0.91	4.60	-0.53	-2.79	-2.20	0.33	2.23	-23.71	5.82	-1.76
37	1	20.19	0.98	5.95	-0.93	-3.58	-2.55	0.32	2.57	-23.06	7.47	-2.45
37	2	20.19	1.24	6.12	-1.12	-3.62	-2.13	0.57	2.20	-22.51	7.63	-2.62
37	3	19.28	1.37	8.13	-1.18	-4.85	-2.59	0.77	2.70	-22.65	10.46	-3.20
37	4	19.28	1.08	8.22	-0.95	-4.80	-3.06	0.43	3.09	-23.15	10.27	-3.00
38	1	18.60	1.16	10.15	-1.54	-5.84	-3.44	0.14	3.47	-22.49	12.57	-3.96
38	2	18.60	1.46	10.40	-1.85	-5.89	-2.94	0.83	3.06	-21.93	12.77	-4.22
38	3	17.69	1.59	13.59	-1.85	-7.51	-3.50	1.05	3.65	-22.11	16.65	-4.90
38	4	17.69	1.26	13.29	-1.51	-7.46	-4.06	0.55	4.10	-22.62	16.40	-4.62
39	1	17.01	1.34	15.92	-2.31	-8.81	-4.50	0.64	4.54	-22.01	19.48	-5.89
39	2	17.01	1.69	16.27	-2.75	-8.85	-3.94	1.15	4.10	-21.48	19.75	-6.24
39	3	16.10	1.82	20.52	-2.63	-10.90	-4.63	1.36	4.82	-21.64	24.95	-6.95
39	4	16.10	1.44	20.12	-2.17	-10.86	-5.25	0.77	5.30	-22.12	24.53	-6.59
40	1	15.42	1.52	23.60	-3.21	-12.52	-5.83	0.86	5.89	-21.53	28.54	-8.15
40	2	15.42	1.92	24.05	-3.77	-12.56	-5.19	1.53	5.41	-21.04	28.88	-8.61
40	3	14.51	2.05	29.57	-3.45	-15.03	-6.05	1.73	6.29	-21.16	35.79	-9.27
40	4	14.51	1.62	29.08	-2.88	-14.99	-6.70	1.04	6.78	-21.58	35.01	-8.81
41	1	13.83	1.70	33.58	-4.13	-16.95	-7.42	1.18	7.51	-20.98	40.68	-10.63
41	2	13.83	2.14	34.11	-4.79	-16.99	-6.69	1.96	6.98	-20.57	40.48	-11.17
41	3	12.92	2.27	41.13	-4.15	-19.84	-7.75	2.19	8.06	-20.62	48.59	-11.63
41	4	12.92	1.80	40.59	-3.52	-19.78	-8.48	1.33	8.59	-20.95	48.16	-11.09
42	1	12.24	1.88	46.31	-4.92	-21.99	-9.36	1.53	9.49	-20.32	54.45	-13.01
42	2	12.24	2.37	46.86	-5.62	-22.05	-8.62	2.37	8.94	-20.02	54.99	-13.43
42	3	11.33	2.50	55.68	-4.53	-25.17	-9.90	2.57	10.23	-19.95	64.32	-13.87
42	4	11.33	1.99	55.17	-3.91	-25.08	-10.68	1.69	10.81	-20.17	64.39	-13.72
43	1	10.65	2.06	62.37	-5.38	-27.42	-11.79	1.85	11.93	-19.50	72.06	-15.06
43	2	10.65	2.59	62.84	-6.02	-27.53	-10.95	2.84	11.31	-19.32	72.50	-15.27
43	3	9.74	2.72	73.86	-4.29	-30.75	-12.66	2.90	12.98	-19.10	84.51	-14.94
43	4	9.74	2.16	73.53	-3.78	-30.55	-13.49	1.94	13.63	-19.16	84.14	-14.40
44	1	9.06	2.24	82.61	-5.16	-32.86	-14.89	2.18	15.04	-18.41	93.55	-16.09
44	2	9.06	2.82	82.81	-5.60	-33.06	-14.03	3.08	14.36	-18.70	93.51	-16.60
44	3	8.15	2.95	96.61	-2.99	-36.00	-16.19	2.97	16.46	-17.93	106.29	-14.64
44	4	8.15	2.34	96.67	-2.77	-35.79	-17.12	2.16	17.26	-17.97	108.21	-14.31
45	1	7.47	2.42	108.16	-3.84	-37.72	-18.96	2.29	19.10	-16.98	119.69	-15.36
45	2	7.47	3.05	107.81	-3.89	-38.07	-17.99	3.07	18.25	-17.14	119.55	-15.63
45	3	6.56	3.18	125.12	-0.16	-40.59	-20.91	2.70	21.08	-16.47	137.12	-12.16
45	4	6.56	2.52	126.12	-0.34	-39.73	-21.93	2.06	22.03	-16.07	137.56	-11.79
46	1	5.88	2.60	140.84	-0.80	-41.17	-24.46	2.21	24.56	-15.09	151.94	-11.89
46	2	5.88	3.27	139.42	-0.27	-41.72	-23.38	2.43	23.51	-15.43	150.93	-11.78
46	3	4.97	3.40	161.91	5.19	-42.05	-27.30	1.37	27.33	-14.11	172.48	-5.38
46	4	4.97	2.70	163.66	4.09	-42.79	-28.57	1.77	28.62	-14.10	174.40	-6.65
47	1	4.29	2.77	182.70	4.71	-42.33	-31.95	1.62	31.99	-12.72	192.25	-4.84
47	2	4.29	3.50	179.90	5.94	-43.09	-30.69	1.00	30.70	-13.18	189.99	-4.15
47	3	3.38	3.63	208.12	12.36	-44.97	-36.17	-0.72	36.18	-12.34	217.95	2.53
47	4	3.38	2.88	214.61	12.14	-37.95	-38.19	-0.16	38.19	-10.28	221.49	5.26
48	1	2.70	2.95	239.82	14.04	-39.33	-43.60	-0.94	43.61	-9.61	246.47	7.39
48	2	2.70	3.73	234.38	15.34	-40.11	-41.32	-3.41	41.46	-10.06	241.49	8.22
48	3	1.79	3.86	277.91	25.39	-22.25	-49.40	-12.09	50.86	-5.00	279.86	23.45
48	4	1.79	3.06	277.54	20.88	-46.30	-51.58	-3.34	51.69	-9.92	285.64	12.78
49	1	26.55	0.38	0.06	-0.02	-0.08	-0.39	0.21	0.44	-31.20	0.11	-0.07



48	2	26.55	0.45	0.06	-0.02	-0.09	-0.35	0.33	0.47	34.16	[illegible]	-1.01
49	3	25.64	0.63	0.25	-0.02	-0.23	-0.19	0.14	0.32	-30.18	[illegible]	-1.15
49	4	25.64	0.57	0.22	-0.02	-0.22	-0.18	0.13	0.34	-31.71	[illegible]	-1.19
50	1	24.96	0.84	0.41	-0.06	-0.34	-0.47	0.24	0.49	-27.23	[illegible]	-0.84
50	2	24.96	0.76	0.44	-0.06	-0.34	-0.43	0.33	0.54	26.97	[illegible]	-1.03
50	3	24.05	0.94	0.92	-0.12	-0.65	-0.47	0.39	0.81	-25.40	[illegible]	-0.74
50	4	24.05	0.79	0.88	-0.11	-0.65	-0.58	0.27	0.67	26.76	[illegible]	-0.94
51	1	23.27	0.90	1.37	-0.27	-0.94	-0.99	0.29	0.92	-24.15	[illegible]	-0.89
51	2	23.37	1.07	1.43	-0.29	-0.93	-0.79	0.40	0.88	27.59	[illegible]	-0.71
51	3	22.46	1.24	2.46	-0.39	-1.46	-1.01	0.59	1.17	-22.85	[illegible]	-1.03
51	4	22.46	1.05	2.36	-0.36	-1.48	-1.10	0.50	1.20	23.35	[illegible]	-1.21
52	1	21.79	1.16	2.21	-0.66	-1.97	-1.36	0.51	1.45	-22.47	[illegible]	-1.47
52	2	21.78	1.37	2.39	-0.71	-1.95	-1.24	0.70	1.42	-21.76	[illegible]	-1.49
52	3	20.87	1.55	5.05	-0.80	-2.79	-1.62	0.94	1.97	-21.84	[illegible]	-1.31
52	4	20.87	1.31	4.87	-0.74	-2.84	-1.70	0.72	1.85	22.69	[illegible]	-1.53
53	1	20.19	1.42	6.27	-1.22	-3.60	-1.98	0.78	2.15	-21.92	[illegible]	-1.27
53	2	20.19	1.38	6.50	-1.31	-3.54	-1.82	1.06	2.10	-21.11	[illegible]	-1.11
53	3	19.28	1.90	8.90	-1.39	-4.73	-2.30	1.26	2.63	-21.71	[illegible]	-1.14
53	4	19.28	1.58	8.62	-1.30	-4.82	-2.42	0.97	2.61	-22.16	[illegible]	-1.39
54	1	18.60	1.09	10.62	-2.02	-5.84	-2.77	1.18	2.98	-21.27	[illegible]	-1.09
54	2	18.31	1.99	10.95	-2.14	-5.74	-2.64	1.47	3.02	-20.68	[illegible]	-1.05
54	3	17.49	2.17	14.26	-2.12	-7.33	-3.20	1.78	3.66	-20.89	[illegible]	-1.13
54	4	17.69	1.84	13.86	-2.02	-7.46	-3.38	1.30	3.55	-21.80	[illegible]	-1.37
55	1	17.01	1.95	16.51	-2.98	-8.78	-3.76	1.51	4.05	-20.97	[illegible]	-1.14
55	2	17.30	2.30	17.03	-3.13	-8.63	-3.62	1.38	4.13	-20.29	[illegible]	-1.12
55	3	16.38	2.47	21.41	-2.98	-10.65	-4.30	2.29	4.97	-20.64	[illegible]	-1.19
55	4	16.57	2.10	20.88	-2.85	-10.82	-4.45	1.74	4.78	21.19	[illegible]	-1.44
56	1	15.92	2.21	24.44	-4.04	-12.46	-5.00	2.00	5.39	-20.80	[illegible]	-1.18
56	2	15.92	2.38	25.07	-4.20	-12.28	-4.88	2.52	5.49	21.02	[illegible]	-1.38
56	3	15.01	2.71	30.62	-3.81	-14.72	-5.67	2.96	6.35	-20.94	[illegible]	-1.44
56	4	15.01	2.36	30.01	-3.69	-14.93	-5.83	2.89	6.25	-20.77	[illegible]	-1.38
57	1	14.32	2.47	34.57	-5.08	-16.88	-6.53	2.49	6.91	21.31	[illegible]	-1.44
57	2	14.33	2.71	35.23	-5.21	-16.67	-6.35	3.21	7.13	-19.73	[illegible]	-1.23
57	3	13.51	3.08	42.39	-4.48	-19.52	-7.38	3.46	8.15	-20.01	[illegible]	-1.44
57	4	13.83	2.88	41.62	-4.40	-19.73	-7.57	2.87	8.04	20.82	[illegible]	-1.41
58	1	13.24	2.72	47.36	-5.90	-21.94	-8.38	3.04	8.96	-19.19	[illegible]	-1.37
58	2	13.31	3.33	48.15	-5.94	-21.74	-8.19	3.78	9.02	19.41	[illegible]	-1.31
58	3	12.33	3.39	56.96	-4.69	-24.91	-9.44	3.99	10.35	-19.17	[illegible]	-1.81
58	4	12.33	3.38	56.17	-4.73	-25.09	-9.68	3.81	10.21	19.74	[illegible]	-1.73
59	1	11.68	3.99	62.31	-6.20	-27.45	-10.74	3.46	11.28	-19.15	[illegible]	-1.74
59	2	11.85	3.83	64.06	-6.11	-27.32	-10.47	4.24	11.71	19.35	[illegible]	-1.71
59	3	11.14	3.76	74.88	-4.18	-30.65	-12.07	4.25	13.61	-18.29	[illegible]	-1.51
59	4	9.74	3.14	74.24	-4.38	-30.70	-12.38	3.51	12.86	19.95	[illegible]	-1.74
60	1	9.06	3.85	83.09	-5.62	-33.06	-13.74	3.72	14.83	-19.25	[illegible]	-1.80
60	2	9.06	3.83	83.61	-5.33	-33.06	-13.35	4.44	14.87	19.36	[illegible]	-1.79
61	3	8.15	4.01	96.92	-2.51	-36.18	-15.37	4.15	15.92	-18.03	[illegible]	-1.38
61	4	8.15	3.40	96.64	-2.92	-36.17	-15.85	3.58	16.82	-19.00	[illegible]	-1.69
61	1	7.47	3.51	107.67	-3.69	-38.21	-17.63	3.54	17.99	-17.22	[illegible]	-1.34
61	2	7.47	4.14	107.61	-3.19	-38.42	-17.05	4.07	17.53	-17.37	[illegible]	-1.21
61	3	6.56	4.32	123.94	0.67	-41.18	-19.65	3.29	19.93	-16.87	[illegible]	-1.82
61	4	6.56	3.66	124.74	0.22	-40.46	-20.44	2.92	20.65	-16.51	[illegible]	-1.77
62	1	5.88	3.77	138.49	0.19	-42.07	-22.78	2.60	22.93	-15.66	[illegible]	-1.60
62	2	5.88	4.45	137.36	0.75	-42.55	-21.85	2.74	22.02	-15.96	[illegible]	-1.42
62	3	4.97	4.62	158.29	5.97	-43.19	-25.34	0.92	25.36	-14.78	169.69	-5.42
62	4	4.97	3.92	159.70	5.30	-44.03	-26.58	1.49	26.56	-14.85	171.38	-6.38
63	1	4.29	4.03	177.96	6.42	-43.58	-29.80	0.40	29.80	-13.47	188.40	-4.02
63	2	4.29	4.75	174.69	6.68	-44.18	-28.16	-0.31	28.16	-13.87	185.60	-4.23
63	3	3.38	4.93	199.60	12.45	-45.67	-32.31	-3.28	32.47	-13.01	210.15	1.90

63	4	3.38	4.18	207.27	13.69	-39.58	-24.17	-2.9*	25.89	-11.18	215.34	-2.0
64	1	2.77	4.29	229.69	15.28	-40.56	-39.02	-4.98	39.34	-10.41	233.14	-7.33
64	2	2.77	5.06	222.91	14.19	-41.16	-26.02	-6.51	34.61	-10.79	230.13	-6.81
64	3	1.79	5.24	260.89	21.80	-21.50	-41.68	-15.27	44.39	-5.79	262.37	-11.38
64	4	1.79	4.44	231.19	22.20	-44.08	-44.49	-9.88	45.-8	-10.61	249.27	-14.31
65	1	31.55	0.50	0.05	-0.01	-0.10	-0.33	0.45	0.56	38.48	0.12	-0.33
65	2	26.95	0.37	0.04	0.00	-0.11	-0.28	0.37	0.46	-39.42	0.12	-0.09
65	3	25.64	0.79	0.26	0.01	-0.22	-0.19	0.20	0.37	-36.36	0.39	-0.12
65	4	25.64	0.70	0.25	0.00	-0.22	-0.15	0.21	0.34	-35.43	0.38	-0.14
66	1	24.58	0.84	0.46	-0.06	-0.35	-0.36	0.37	0.53	-26.59	0.60	-0.35
66	2	24.98	0.96	0.49	-0.04	-0.34	-0.32	0.45	0.56	-25.74	0.62	-0.2
66	3	24.05	1.19	1.00	-0.13	-0.63	-0.41	0.37	0.55	24.11	1.25	-0.41
66	4	24.05	1.04	0.95	-0.12	-0.64	-0.47	0.30	0.55	-24.97	1.25	-0.13
67	1	23.37	1.18	1.48	-0.30	-0.91	-0.75	0.48	0.89	-22.90	1.96	-0.09
67	2	23.37	1.35	1.55	-0.30	-0.89	-0.74	0.55	0.92	-21.97	1.90	-0.01
67	3	22.46	1.57	2.65	-0.40	-1.40	-0.94	0.75	1.20	-21.29	2.71	-0.72
67	4	22.46	1.38	2.54	-0.40	-1.44	-0.99	0.67	1.19	-22.19	2.72	-0.1
68	1	21.75	1.53	3.49	-0.72	-1.91	-1.20	0.82	1.45	-21.10	3.82	-1.48
68	2	21.75	1.74	3.64	-0.71	-1.85	-1.22	0.94	1.54	-20.20	4.32	-1.32
68	3	20.87	1.96	5.40	-0.79	-2.66	-1.52	1.26	1.97	-20.34	6.31	-1.78
68	4	20.87	1.72	5.20	-0.81	-2.74	-1.57	1.02	1.98	-21.21	6.26	-1.1
69	1	21.19	1.37	6.67	-1.33	-3.47	-1.79	1.20	2.15	-20.49	7.97	-2.19
69	3	20.19	2.12	6.98	-1.31	-3.37	-1.77	1.37	2.24	-19.66	8.12	-2.51
69	2	19.28	2.35	9.44	-1.37	-4.51	-2.21	1.75	2.82	-19.94	11.07	-2.11
69	4	19.28	2.07	9.12	-1.40	-4.65	-2.25	1.51	2.71	-20.73	11.61	-2.1
70	1	18.61	2.21	11.21	-2.16	-5.64	-2.59	1.71	3.10	-20.07	13.27	-4.04
70	2	18.11	2.51	11.58	-2.11	-5.48	-2.58	1.98	3.25	-19.94	13.41	-4.1
70	3	17.30	2.74	15.04	-2.07	-7.02	-3.09	2.33	3.97	-19.38	17.29	-4.81
70	4	17.30	2.41	14.58	-2.15	-7.20	-3.15	2.00	3.73	-20.27	17.21	-4.42
71	1	16.71	2.85	17.39	-3.14	-8.49	-3.58	2.25	4.33	-17.90	21.48	-4.1
71	2	16.71	3.00	17.98	-3.04	-8.28	-3.55	2.64	4.44	-19.16	22.71	-3.9
71	3	16.11	3.43	22.46	-3.82	-10.25	-4.21	3.03	5.15	-19.53	28.01	-5.21
71	4	16.11	3.25	21.83	-3.97	-10.49	-4.26	2.80	4.91	-20.31	28.67	-5.1
72	1	15.51	3.59	25.51	-4.18	-12.10	-4.79	3.32	5.61	-17.60	33.33	-6.1
72	2	15.51	3.77	26.20	-3.99	-11.84	-4.76	3.37	5.73	-18.24	33.84	-5.9
72	3	14.82	3.97	32.00	-3.50	-14.26	-5.58	3.76	6.74	-19.39	37.41	-7.33
72	4	14.82	3.69	31.21	-3.75	-14.54	-5.63	3.25	6.50	-19.87	38.41	-7.1
73	1	13.11	3.54	35.87	-5.11	-16.48	-6.31	3.65	7.58	-19.41	41.87	-11.42
73	2	13.11	3.48	36.72	-4.79	-16.20	-6.21	4.12	7.56	-15.99	42.23	-11.7
73	3	12.38	3.90	43.95	-3.93	-19.05	-7.18	4.43	8.44	-19.26	50.61	-11.71
73	4	12.38	3.43	43.02	-4.32	-19.34	-7.27	3.92	8.26	-19.82	49.81	-11.18
74	1	12.24	3.58	48.80	-5.76	-21.56	-8.10	4.25	9.15	-19.16	55.39	-13.38
74	2	12.24	4.07	49.77	-5.27	-21.29	-7.99	4.84	9.44	-18.86	57.04	-12.55
74	3	11.33	4.29	58.61	-3.89	-24.52	-9.16	5.05	10.46	-19.00	67.69	-13.36
74	4	11.33	3.77	57.61	-4.45	-24.76	-9.34	4.43	10.43	-19.29	66.25	-12.12
75	1	10.65	3.92	64.70	-5.80	-27.19	-10.32	4.77	11.37	-18.62	73.97	-15.06
75	2	10.65	4.46	65.68	-5.13	-26.99	-10.13	5.31	11.44	-19.66	74.80	-14.25
75	3	9.74	4.68	76.34	-3.10	-30.44	-11.55	5.29	12.70	-18.74	86.66	-13.43
75	4	9.74	4.12	75.46	-3.81	-30.55	-11.85	4.75	12.27	-18.81	85.87	-14.21
76	1	9.06	4.26	84.08	-4.90	-33.04	-13.09	4.89	13.98	-18.30	95.01	-15.82
76	2	9.06	4.84	84.86	-4.09	-32.98	-12.70	5.41	13.87	-19.28	95.75	-14.98
76	3	8.15	5.07	97.68	-1.27	-36.31	-14.49	4.95	15.31	-18.14	109.56	-13.16
76	4	8.15	4.46	97.13	-2.07	-36.34	-15.02	4.53	15.69	-18.11	109.02	-13.96
77	1	7.47	4.60	107.67	-2.68	-38.57	-16.60	4.38	17.17	-17.48	119.82	-14.82
77	2	7.47	5.23	107.85	-1.86	-38.70	-15.90	4.72	16.59	-17.60	120.13	-14.14
77	3	6.56	5.46	123.13	1.73	-41.66	-18.07	3.60	18.43	-17.23	136.05	-11.19
77	4	6.56	4.80	123.76	1.18	-41.06	-19.07	3.39	19.37	-16.91	136.24	-11.31
78	1	5.88	4.94	136.53	1.16	-42.87	-21.08	2.74	21.25	-16.18	148.97	-11.28

78	2	5.88	5.62	135.54	1.61	-43.22	-19.88	2.76	20.07	-16.42	148.38	-11.18
78	3	4.97	5.85	154.55	5.99	-44.00	-22.58	0.46	22.58	-15.32	166.60	-6.07
78	4	4.97	5.14	155.97	5.82	-44.90	-24.15	0.95	24.17	-15.44	168.77	-6.53
79	1	4.29	5.28	172.54	6.50	-44.61	-26.79	-0.79	26.80	-14.13	183.77	-4.72
79	2	4.29	6.01	169.08	5.99	-44.87	-24.69	1.25	24.72	-14.41	180.61	-5.54
79	3	3.38	6.23	190.36	10.16	-45.74	-27.55	-4.73	27.95	-13.46	201.30	-0.78
79	4	3.38	5.48	198.68	12.29	-40.93	-30.76	-4.68	31.12	-11.86	207.21	3.69
80	1	2.70	5.63	217.08	12.75	-41.12	-33.50	-7.47	34.32	-10.96	225.04	4.78
80	2	2.70	6.40	210.39	10.18	-41.22	-30.14	-8.31	31.87	-11.19	218.54	2.03
80	3	1.79	6.62	242.48	15.30	-25.49	-33.77	-16.69	37.67	-6.33	245.31	12.47
80	4	1.79	5.82	242.42	17.65	-43.80	-36.87	-13.27	39.18	-10.65	250.65	9.41
81	1	26.55	0.62	0.03	0.01	-0.11	-0.17	0.54	0.57	-42.01	0.13	-0.09
81	2	26.55	0.69	0.02	0.02	-0.10	-0.07	0.47	0.47	-45.39	0.12	-0.08
81	3	25.64	0.96	0.30	0.04	-0.21	-0.34	0.11	0.36	-29.14	0.42	-0.08
81	4	25.64	0.86	0.26	0.02	-0.22	-0.23	0.20	0.30	-29.78	0.46	-0.11
82	1	24.96	1.04	0.51	-0.03	-0.33	-0.27	0.52	0.58	-25.31	0.67	-0.19
82	2	24.96	1.16	0.54	-0.02	-0.32	-0.20	0.47	0.52	-24.51	0.69	-0.16
82	3	24.05	1.43	1.09	-0.10	-0.59	-0.49	0.46	0.67	-22.40	1.33	-0.25
82	4	24.05	1.29	1.03	-0.12	-0.61	-0.42	0.46	0.62	-23.37	1.30	-0.38
83	1	23.37	1.47	1.60	-0.29	-0.86	-0.73	0.69	1.00	-21.18	1.94	-0.63
83	2	23.37	1.63	1.68	-0.27	-0.83	-0.72	0.70	1.00	-20.21	1.99	-0.57
83	3	22.46	1.90	2.84	-0.34	-1.31	-0.99	0.94	1.37	-19.78	3.31	-0.91
83	4	22.46	1.71	2.73	-0.38	-1.36	-0.93	0.82	1.24	-20.63	3.24	-0.89
84	1	21.78	1.89	3.75	-0.69	-1.80	-1.23	1.02	1.60	-19.54	4.39	-1.33
84	2	21.78	2.10	3.91	-0.63	-1.74	-1.23	1.17	1.70	-18.71	4.50	-1.22
84	3	20.87	2.37	5.77	-0.67	-2.50	-1.57	1.48	2.15	-18.90	6.63	-1.53
84	4	20.87	2.13	5.56	-0.75	-2.59	-1.53	1.29	2.00	-19.72	6.49	-1.68
85	1	20.19	2.31	7.11	-1.26	-3.28	-1.79	1.54	2.36	-19.07	8.24	-2.29
85	2	20.19	2.57	7.37	-1.15	-3.16	-1.78	1.74	2.49	-18.29	8.42	-2.20
85	3	19.29	2.84	10.03	-1.15	-4.25	-2.26	2.10	3.08	-18.63	11.40	-2.50
85	4	19.28	2.56	9.68	-1.30	-4.40	-2.21	1.89	2.91	-19.37	11.23	-2.04
86	1	18.60	2.73	11.87	-2.02	-5.35	-2.58	2.17	3.37	-18.81	13.70	-2.84
86	2	18.60	3.04	12.28	-1.83	-5.17	-2.59	2.38	3.58	-18.13	13.87	-3.23
86	3	17.69	3.31	15.90	-1.71	-6.65	-3.15	2.75	4.18	-18.54	18.13	-3.74
86	4	17.69	2.98	15.39	-1.95	-6.87	-3.10	2.54	4.01	-19.18	17.78	-4.04
87	1	17.01	3.16	18.32	-2.88	-8.11	-3.56	2.88	4.58	-18.71	21.07	-5.43
87	2	17.01	3.51	18.90	-2.57	-7.87	-3.55	3.17	4.76	-18.13	21.48	-5.19
87	3	16.10	3.78	23.63	-2.26	-9.79	-4.23	3.58	5.64	-18.65	26.98	-5.54
87	4	16.10	3.40	22.94	-2.63	-10.06	-4.21	3.25	5.32	-19.10	26.43	-6.11
88	1	15.42	3.58	26.74	-3.73	-11.64	-4.76	3.67	6.01	-18.69	30.68	-7.07
88	2	15.42	3.98	27.51	-3.27	-11.35	-4.78	3.97	6.21	-18.20	31.25	-7.01
88	3	14.51	4.25	33.51	-2.66	-13.74	-5.56	4.37	7.07	-18.61	38.14	-7.29
88	4	14.51	3.82	32.62	-3.19	-14.05	-5.54	4.06	6.87	-19.06	37.47	-8.05
89	1	13.83	4.00	37.40	-4.43	-15.97	-6.18	4.46	7.62	-18.69	42.80	-9.83
89	2	13.83	4.45	38.36	-3.77	-15.65	-6.15	4.85	7.83	-18.31	43.54	-8.95
89	3	12.92	4.72	45.75	-2.78	-18.51	-7.10	5.18	8.79	-18.67	52.00	-9.04
89	4	12.92	4.25	44.68	-3.51	-18.83	-7.15	4.79	8.60	-19.00	51.16	-9.99
90	1	12.24	4.43	50.55	-4.75	-21.08	-7.93	5.21	9.48	-18.66	57.66	-11.87
90	2	12.24	4.92	51.68	-3.89	-20.77	-7.83	5.57	9.61	-18.39	58.58	-10.79
90	3	11.33	5.19	60.58	-2.41	-24.04	-8.90	5.79	10.62	-18.68	68.71	-10.54
90	4	11.33	4.67	59.40	-3.33	-24.33	-9.05	5.37	10.52	-18.90	67.74	-11.66
91	1	10.65	4.85	66.48	-4.48	-26.83	-9.95	5.71	11.47	-18.55	75.48	-13.48
91	2	10.65	5.39	67.66	-3.43	-26.57	-9.76	6.07	11.49	-18.39	76.49	-12.27
91	3	9.74	5.66	78.19	-1.39	-30.13	-10.99	6.00	12.52	-18.57	88.31	-11.52
91	4	9.74	5.09	77.09	-2.43	-30.31	-11.32	5.62	12.64	-18.66	87.32	-12.67
92	1	9.06	5.27	85.51	-3.35	-32.92	-12.42	5.72	13.68	-18.27	96.38	-14.21
92	2	9.06	5.86	86.51	-2.22	-32.78	-12.00	6.07	13.45	-18.23	97.31	-13.02
92	3	8.15	6.13	98.84	0.40	-36.26	-13.40	5.48	14.48	-18.19	110.76	-11.51

		6.15	5.58	[illegible]	-0.68	-36.40	-14.04	5.98	14.98	16.21	111.04	-13.53
		7.47	5.79	108.08	-1.09	-38.78	-15.35	4.90	16.11	-17.65	120.44	-13.56
		[illegible]	6.32	106.87	-0.24	-38.76	-14.55	5.14	15.93	-17.75	120.85	-13.45
		6.81	6.10	122.59	2.82	-41.90	-16.16	3.76	16.91	-17.46	135.74	-15.31
		6.58	5.74	123.09	2.34	-41.48	-17.34	3.67	17.73	-17.84	135.99	-15.42
		5.86	6.12	134.79	1.91	-43.36	-18.97	2.71	19.01	-16.46	147.69	-15.08
		5.82	6.79	133.85	2.27	-43.40	-17.44	2.74	17.65	16.71	146.98	-15.75
		4.01	7.27	150.65	5.45	-44.13	-19.33	0.15	19.33	-19.66	63.02	-1.82
		[illegible]	6.36	152.14	5.65	-45.28	-21.19	0.49	21.19	-19.36	165.01	-7.23
		[illegible]	6.54	166.75	5.39	-44.96	-20.04	-1.54	23.00	-14.57	178.40	-6.31
		[illegible]	7.26	163.04	4.53	-44.67	-20.67	1.81	20.75	-14.70	174.76	-7.19
		7.28	7.54	190.46	6.99	-44.69	-22.43	-5.56	23.11	-13.63	191.38	-7.85
		5.38	6.78	199.26	9.41	-41.19	-25.78	5.70	26.40	-18.30	198.84	0.43
		8.74	8.90	204.83	8.13	-40.65	-27.41	-8.74	28.77	-11.26	212.28	6.04
		8.70	7.72	197.02	5.07	-39.89	-24.04	9.04	25.69	-11.29	204.93	-2.31
		[illegible]	8.01	223.66	7.44	-25.01	-25.98	-16.57	30.79	-6.51	223.51	-4.49
		1.71	7.21	223.17	10.56	-41.66	-29.05	-14.90	32.60	-10.70	231.04	3.61
		21.99	0.74	0.06	0.03	-0.09	0.05	0.44	0.44	-46.62	0.12	-0.07
		20.59	0.81	0.02	0.04	-0.08	0.02	0.42	0.42	-48.49	0.12	-0.08
		22.44	1.17	0.35	0.05	-0.21	-0.35	0.18	0.40	-27.84	0.44	-0.09
		25.04	1.13	0.31	0.04	-0.21	-0.34	0.15	0.38	-38.93	0.43	-0.11
		24.32	1.24	0.58	0.00	-0.31	-0.21	0.37	0.43	-23.77	0.10	-0.14
		24.38	1.36	0.59	0.02	-0.30	-0.25	0.44	0.51	-23.12	0.73	-0.11
		24.06	1.39	1.18	-0.04	-0.55	-0.53	0.84	0.83	-21.00	1.39	-0.09
		24.13	1.52	1.12	-0.08	-0.57	-0.50	0.54	0.74	21.92	1.35	-0.5
		23.21	1.75	1.74	-0.24	-0.80	-0.72	0.75	1.04	-19.45	2.05	-0.83
		21.27	1.71	1.61	-0.19	-0.77	-0.80	0.63	1.15	-18.80	2.17	-0.45
		22.13	2.17	2.05	-0.92	-1.22	-1.08	1.12	1.56	-19.29	2.08	-0.13
		21.41	2.14	2.03	-0.24	-1.27	-1.01	1.34	1.45	-19.15	2.37	-0.74
		21.11	2.25	2.05	-0.47	-1.69	-1.27	1.21	1.75	-[illegible].15	2.57	-1.11
		21.71	2.42	2.17	-0.47	-1.62	-1.33	1.36	1.90	-17.46	2.33	-1.19
		21.67	2.78	2.19	-0.96	-2.34	-1.71	1.64	2.37	-17.65	2.51	-1.62
		21.27	2.74	2.93	-0.59	-2.43	-1.64	1.65	2.35	-18.33	2.71	-1.44
		21.44	2.78	2.97	-1.04	-3.07	-1.82	1.82	2.67	-17.76	2.89	-2.11
	2	21.13	3.0	3.34	-0.86	-2.95	-1.93	1.83	2.72	-17.10	3.11	-1.94
	3	19.36	2.72	10.41	-0.15	-3.99	-2.40	2.30	3.42	-17.48	11.65	-8.19
	4	19.21	3.15	10.28	-1.02	-4.14	-2.31	2.14	3.15	-18.11	11.87	-8.02
	1	18.06	3.68	10.59	-1.85	-5.04	-2.62	2.52	3.84	-17.15	14.19	-8.35
	2	18.21	3.96	13.00	-1.35	-4.87	-2.78	2.65	3.84	-17.07	14.1	-8.31
	3	17.69	3.89	10.79	-1.13	-6.28	-2.30	3.04	4.50	-17.42	18.11	-8.14
	4	17.21	3.55	10.28	-1.49	-6.49	-3.19	2.98	4.33	-18.09	11.38	-8.01
	1	16.81	3.76	19.34	-2.29	-7.69	-3.61	3.30	4.89	-17.71	21.83	-8.79
	2	16.0	4.11	19.94	-1.83	-7.46	-3.73	3.50	5.18	-17.81	33.85	-8.12
	3	16.70	4.43	24.88	-1.40	-9.32	-4.39	3.95	5.90	-17.67	27.85	-8.27
	4	16.11	4.05	24.15	-1.93	-9.59	-4.28	3.73	5.67	18.16	27.26	-9.17
	1	15.42	4.27	28.10	-2.85	-11.13	-4.78	4.18	6.35	-17.86	31.89	-8.44
104	2	15.42	4.66	26.92	-2.20	-10.84	-4.91	4.42	6.60	-17.44	30.33	-8.60
104	3	14.51	4.98	35.13	-1.47	-13.19	-5.67	4.79	7.42	-17.89	39.39	-8.72
104	4	14.51	4.56	34.19	-2.19	-13.50	-5.58	4.58	7.22	-18.29	38.65	-8.66
105	1	13.82	4.77	39.11	-3.20	-15.41	-6.18	5.03	7.97	-18.04	44.12	-8.22
105	2	13.83	5.21	40.14	-2.33	-15.08	-6.25	5.28	8.19	-17.65	44.36	-7.14
105	3	12.92	5.53	47.73	-1.21	-17.93	-7.14	5.63	9.09	-18.12	53.59	-7.09
105	4	12.92	5.06	46.57	-2.15	-18.26	-7.09	5.39	8.91	-18.43	52.66	-8.24
106	1	12.24	5.28	52.55	-3.15	-20.52	-7.78	5.82	9.71	-18.19	59.29	-9.90
106	2	12.24	5.77	53.77	-2.05	-20.19	-7.79	6.06	9.87	-17.94	60.31	-8.59
106	3	11.33	6.08	62.79	-0.51	-23.49	-8.77	6.25	10.77	-18.29	70.56	-8.27
106	4	11.33	5.57	61.49	-1.65	-23.82	-8.83	5.98	10.66	-18.52	69.47	-9.63
107	1	10.65	5.78	68.58	-2.56	-26.37	-9.61	6.33	11.51	-18.27	77.29	-11.27

[illegible]	[illegible]	0.85	6.32	89.90	-1.26	-26.06	-9.48	6.59	11.64	- 6.[illegible]	79.[illegible]	-5.[illegible]
[illegible]	[illegible]	0.74	6.03	80.53	0.69	-29.69	-10.50	6.41	12.76	-18.35	[illegible]	[illegible]
[illegible]	[illegible]	0.74	6.07	79.09	-0.64	-29.94	-10.77	6.29	12.43	-18.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0.[illegible]	5.89	87.32	-1.33	-32.64	-11.65	6.85	13.22	-19.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	6.67	98.46	-0.02	-32.29	-11.26	6.51	[illegible]	-18.10	[illegible]	[illegible]
[illegible]	[illegible]	0.[illegible]	7.19	100.31	2.31	-35.95	-12.33	5.84	13.64	-19.13	[illegible]	[illegible]
[illegible]	[illegible]	0.[illegible]	6.57	99.38	1.16	-36.32	-12.95	5.62	14.12	-19.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	6.79	108.83	0.30	-38.69	-13.91	5.96	14.67	-17.77	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	7.42	109.36	1.56	-38.48	-13.07	5.42	14.15	-17.77	[illegible]	[illegible]
[illegible]	[illegible]	6.54	7.74	133.22	3.94	-41.47	-14.06	3.93	14.60	-17.52	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	7.08	122.64	3.42	-41.46	-14.29	3.84	15.76	-17.46	[illegible]	[illegible]
[illegible]	[illegible]	5.81	7.29	133.13	2.53	-43.29	-16.35	2.70	16.57	-16.77	[illegible]	[illegible]
[illegible]	[illegible]	5.82	7.77	132.82	2.92	-43.01	-14.82	2.79	15.08	-16.82	[illegible]	[illegible]
[illegible]	[illegible]	6.17	8.29	146.47	5.06	-43.48	-15.82	0.06	15.82	15.80	[illegible]	[illegible]
[illegible]	[illegible]	6.81	7.59	148.17	5.15	-44.92	-17.75	0.24	17.79	-16.67	[illegible]	[illegible]
[illegible]	[illegible]	6.23	7.79	160.46	3.86	-44.33	-18.92	-1.99	19.02	-14.76	[illegible]	[illegible]
[illegible]	[illegible]	6.61	8.32	158.40	3.67	-43.51	-16.36	-2.04	16.41	-14.79	[illegible]	[illegible]
[illegible]	[illegible]	7.31	8.64	169.85	3.82	-42.26	-17.25	-6.20	18.33	-13.49	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	8.09	179.15	5.94	-40.17	-20.58	-6.15	21.48	-12.94	[illegible]	[illegible]
[illegible]	[illegible]	8.7[illegible]	8.30	190.80	3.01	-39.66	-21.44	-9.16	23.31	-11.19	[illegible]	[illegible]
[illegible]	[illegible]	8.7[illegible]	8.17	182.22	0.94	-37.00	-18.56	-9.26	20.74	-11.01	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	9.31	204.63	-0.42	-28.03	-19.44	-15.87	24.72	-8.66	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	9.89	204.29	2.97	-37.83	-21.87	-14.71	26.66	-10.50	[illegible]	[illegible]
[illegible]	[illegible]	33.33	0.00	0.03	0.05	-0.07	0.00	0.37	0.37	48.48	0.11	[illegible]
[illegible]	[illegible]	[illegible]	0.07	0.04	0.05	-0.06	0.04	0.38	0.38	-46.44	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.09	0.36	0.06	-0.20	-0.36	0.17	0.42	-20.50	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.30	0.34	0.05	-0.21	-0.35	0.18	0.39	-27.81	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.44	0.61	0.03	-0.29	-0.30	0.37	0.47	-23.27	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.50	0.63	0.05	-0.29	-0.36	0.41	0.55	-22.42	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.72	1.26	0.04	-0.52	-0.66	0.75	1.01	21.34	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	0.78	1.22	-0.01	-0.53	-0.56	0.69	0.89	-21.49	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1.03	1.86	-0.14	-0.75	-0.85	0.95	1.20	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	1.09	1.92	-0.06	-0.74	-0.95	0.92	1.33	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2.36	3.28	-0.05	-1.16	-1.36	1.31	1.82	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2.37	3.13	-0.15	-1.19	-1.16	1.14	1.62	- [illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	3.[illegible]	4.28	-0.37	-1.58	-1.42	1.40	1.15	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	3.12	4.41	-0.21	-1.54	-1.64	1.59	2.24	-18.58	4.89	[illegible]
[illegible]	[illegible]	21.07	5.[illegible]	6.47	-0.15	-2.22	-2.06	1.82	2.76	-16.39	[illegible]	[illegible]
[illegible]	[illegible]	21.07	5.15	6.59	-0.44	-2.28	-1.82	1.67	2.[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	21.[illegible]	5.80	8.03	-0.70	-2.87	-2.07	2.02	2.89	-16.66	[illegible]	[illegible]
[illegible]	[illegible]	21.[illegible]	5.40	8.25	-0.44	-2.80	-2.39	2.10	3.15	-16.42	[illegible]	[illegible]
[illegible]	[illegible]	11.28	3.82	11.18	-0.28	-3.79	-2.87	2.57	3.85	-16.72	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	3.84	10.88	-0.60	-3.89	-2.52	2.42	3.49	-17.06	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	2.78	13.30	-1.10	-4.75	-2.90	2.79	4.02	-16.71	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4.09	13.66	-0.67	-4.63	-3.27	2.97	4.42	-16.44	[illegible]	[illegible]
[illegible]	[illegible]	17.69	4.45	17.63	-0.34	-6.00	-3.82	3.39	5.10	-16.96	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4.12	17.16	-0.83	-6.14	-4.44	3.19	4.69	-17.15	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4.37	20.38	-1.45	-7.29	-3.89	3.65	5.33	16.88	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4.72	20.92	-0.83	-7.14	-4.32	3.88	5.76	-16.64	[illegible]	[illegible]
[illegible]	[illegible]	16.10	5.08	26.08	-0.27	-8.94	-4.96	4.29	6.56	-17.09	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4.71	25.41	-0.96	-9.13	-4.53	4.09	6.10	-17.35	[illegible]	[illegible]
120	1	15.42	4.95	29.52	-1.66	-10.64	-5.04	4.51	6.76	-17.15	33.30	-4.94
120	2	15.42	5.35	30.28	-0.82	-10.44	-5.49	4.74	7.25	-16.93	33.46	-4.00
120	3	14.51	5.72	36.72	0.04	-12.74	-6.25	5.18	8.12	-17.39	40.71	-3.95
120	4	14.51	5.29	35.89	-0.88	-12.96	-5.80	4.96	7.63	-17.62	39.95	-4.99
121	1	13.83	5.54	40.92	-1.61	-14.85	-6.36	5.45	8.38	-17.46	45.59	-6.28
121	2	13.83	5.98	41.90	-0.52	-14.62	-6.83	5.67	8.87	-17.29	46.45	-5.07
121	3	12.92	6.35	49.70	0.68	-17.45	-7.64	6.00	9.72	-17.73	55.27	-4.90

131	4	12.93	5.39	48.59	-0.46	-17.69	-7.23	5.75	9.23	-17.96	54.3[illegible]	-3.[illegible]
132	1	12.54	6.12	54.70	-1.17	-19.95	-7.87	6.22	10.03	-17.77	61.09	-7.[illegible]
132	2	12.24	6.41	55.85	0.15	-19.71	-8.29	6.46	10.31	-17.64	62.15	-3.[illegible]
132	3	11.23	6.06	65.04	1.72	-23.02	-9.12	6.81	11.37	-18.01	72.51	-5.[illegible]
132	4	11.22	6.46	63.77	0.38	-23.26	-8.78	6.40	10.87	-18.[illegible]	71.31	-[illegible]
133	1	10.65	6.71	70.89	-0.29	-25.23	-9.43	6.69	11.46	-17.99	79.21	-6.[illegible]
133	2	10.69	7.25	72.18	1.20	-25.60	-9.70	6.97	11.95	-17.9	80.45	-7.[illegible]
133	3	9.74	7.61	82.57	3.07	-29.24	-10.52	6.86	12.65	-18.18	92.[illegible]	-8.52
133	4	9.74	[illegible].05	81.31	1.64	-29.45	-10.38	6.56	12.27	-18.24	91.01	-8.[illegible]
134	1	9.66	7.29	89.38	0.99	-32.17	-11.04	6.64	12.89	-18.03	99.85	-9.46
134	2	9.06	7.66	9[illegible].58	2.52	-31.95	-11.05	6.90	13.03	-17.56	100.9[illegible]	-7.96
134	3	9.15	8.24	101.82	4.42	-35.49	-11.66	6.25	13.82	-19.06	113.29	-7.[illegible]
134	4	8.15	7.87	100.93	3.16	-35.79	-11.88	6.00	13.31	-18.11	112.67	-8.54
135	1	7.47	7.88	109.79	2.36	-38.26	-12.48	5.50	13.65	-17.73	122.03	-9.87
135	2	7.47	8.51	110.27	3.66	-37.97	-12.01	5.90	13.38	-17.73	122.41	-8.[illegible]
135	3	6.50	8.07	121.80	5.39	-40.80	-12.34	4.39	13.10	-17.62	134.67	-7.[illegible]
135	4	6.50	8.22	126.30	4.02	-40.98	-13.24	4.04	13.84	-17.42	139.[illegible]	-8.[illegible]
136	1	5.84	8.46	131.44	3.24	-42.65	-13.66	2.87	13.96	-16.82	144.[illegible]	-9.85
136	2	5.56	9.14	130.35	3.96	-42.20	-12.43	3.19	12.83	-16.87	143.14	-8.84
136	3	4.97	9.81	141.74	5.15	-42.38	-12.45	0.46	12.46	-15.91	153.82	-8.[illegible]
136	4	4.87	8.20	143.81	4.80	-43.77	-14.15	0.15	14.15	-16.10	156.45	-7.[illegible]
137	1	4.87	9.[illegible]	152.65	2.56	-42.85	-14.67	-2.14	14.92	-14.78	164.50	-8.[illegible]
137	2	4.39	8.77	149.00	2.89	-41.67	-13.35	-2.00	12.51	-14.80	160.[illegible]	-8.[illegible]
137	3	3.[illegible]	[illegible].4	167.91	1.43	-38.82	-12.59	-7.05	14.43	-13.20	18[illegible].4	-[illegible]
137	4	3.39	9.39	167.96	3.12	-38.03	-15.46	-6.20	16.65	-12.38	179.[illegible]	-8.[illegible]
138	1	2.[illegible]	9.[illegible]	175.98	-1.68	-34.77	-16.09	-9.94	18.91	-10.[illegible]	192.[illegible]	-[illegible]
138	2	2.[illegible]	[illegible].41	166.50	-3.56	-32.09	-12.83	-10.67	16.68	-10.34	178.[illegible]	-7.[illegible]
138	3	[illegible].[illegible]	[illegible].77	199.[illegible]	-5.54	-16.67	-17.27	-14.54	22.97	-4.94	197.[illegible]	-[illegible]
138	4	[illegible].71	8.[illegible]	185.71	-3.98	-30.95	-16.60	-14.49	22.03	-9.04	191.[illegible]	-8.[illegible]
139	1	1.[illegible]	[illegible].[illegible]	0.06	0.05	-0.06	-0.05	0.12	0.13	-43.[illegible]	[illegible]	[illegible]
139	2	21.[illegible]	[illegible].[illegible]	0.07	0.04	-0.05	-0.03	0.14	0.14	-36.[illegible]	0.[illegible]	[illegible]
139	3	25.[illegible]	[illegible].[illegible]	0.39	0.08	-0.20	-0.34	0.35	0.49	-[illegible]6.[illegible]	0.[illegible]	[illegible]
139	4	35.[illegible]	[illegible].[illegible]	0.37	0.07	-0.20	-0.37	0.25	0.45	-[illegible]6.9[illegible]	0.[illegible]	[illegible]
140	1	24.[illegible]	[illegible].04	0.65	0.07	-0.29	-0.45	0.38	0.69	-22.34	[illegible]	[illegible]
140	2	34.[illegible]	[illegible].[illegible]6	0.67	0.10	-0.29	-0.48	0.43	0.65	-[illegible]2.78	[illegible]	[illegible]
140	3	34.[illegible]	[illegible]. [illegible]	.38	0.14	-0.53	-1.01	0.77	[illegible].87	-[illegible]0.[illegible]	[illegible].[illegible]	[illegible]
140	4	34.[illegible]	[illegible].[illegible]	1.25	0.09	-0.51	-0.80	0.68	1.06	-[illegible]0.[illegible]	[illegible].45	-[illegible]
141	1	27.[illegible]	[illegible].[illegible]	1.97	0.01	-0.73	-1.09	0.96	[illegible].45	-18.36	[illegible].[illegible]	-[illegible]
141	2	27.[illegible]	[illegible].47	[illegible].00	0.12	-0.75	-1.27	1.02	1.71	-[illegible]9.[illegible]	[illegible].[illegible]	-[illegible]
141	3	22.[illegible]	[illegible].56	3.32	0.21	-1.20	-1.98	1.46	[illegible].46	-18.79	[illegible].73	-[illegible]
141	4	23.42	[illegible].70	[illegible].28	0.05	-1.16	-1.54	1.31	[illegible].02	-17.78	[illegible].[illegible]	-[illegible]
142	1	21.78	[illegible].08	4.49	-0.09	-1.53	-1.91	1.56	[illegible].47	-16.92	[illegible].[illegible]	-[illegible]
142	2	21.78	3.19	4.53	0.17	-1.58	-[illegible].43	1.75	[illegible].99	-17.98	5.08	-[illegible]
143	3	20.87	3.80	6.64	0.43	-2.28	-[illegible].08	[illegible].19	3.78	-17.93	7.37	-[illegible]
143	4	20.87	3.26	6.58	0.02	-2.21	-[illegible].32	1.93	3.02	-16.97	7.[illegible]	-[illegible]
144	1	20.19	3.64	8.39	-0.21	-2.78	-[illegible].73	[illegible].28	3.65	-16.46	[illegible].[illegible]	-[illegible]
144	2	20.19	3.90	8.46	0.23	-2.86	-3.59	[illegible].60	4.43	-17.42	[illegible].[illegible]	-[illegible]
144	3	19.29	4.31	11.47	0.52	-3.87	-4.33	3.09	5.32	-17.61	[illegible].70	-[illegible]
144	4	19.29	4.03	11.37	0.00	-3.76	-3.25	[illegible].76	4.27	-16.75	12.50	-1.13
145	1	18.60	4.31	13.89	-0.30	-4.59	-[illegible].66	3.15	4.83	-16.44	15.25	-1.[illegible]
145	2	18.60	4.61	14.02	0.38	-4.71	-4.85	3.53	6.00	-17.31	15.49	-1.[illegible]
145	3	17.69	5.02	18.09	0.83	-6.09	-5.70	4.01	6.96	-17.61	20.03	-1.10
145	4	17.69	4.69	17.98	0.07	-5.94	-4.28	3.56	5.57	-16.83	19.72	-1.73
146	1	17.01	4.98	21.27	-0.31	-7.07	-4.77	4.02	6.24	-16.62	23.38	-2.41
146	2	17.01	5.32	21.47	0.66	-7.23	-6.28	4.59	7.78	-17.41	23.74	-1.61
146	3	16.10	5.74	26.77	1.35	-9.06	-7.21	5.03	8.79	-17.75	29.67	-1.56
146	4	16.10	5.36	26.50	0.30	-8.87	-5.50	4.44	7.07	-17.05	29.22	-2.42
147	1	15.42	5.64	30.77	-0.12	-10.34	-6.04	4.97	7.82	-16.90	33.92	-3.26

136	2	15.42	6.04	31.08	1.17	-10.57	-7.88	5.58	9.65	-17.63	34.43	-2.19
136	3	14.51	6.45	37.69	2.14	-12.91	-8.81	6.04	10.68	-18.00	41.86	-3.06
136	4	14.51	6.03	37.31	0.78	-12.65	-6.82	5.37	8.68	-17.35	41.26	-2.17
137	1	13.83	6.31	42.56	0.36	-14.52	-7.40	5.87	9.45	-17.26	47.07	-4.15
137	2	13.83	6.75	42.98	1.99	-14.82	-9.48	6.64	11.57	-17.94	47.78	-2.81
137	3	12.98	7.16	50.98	3.28	-17.69	-10.43	7.02	12.57	-18.31	56.77	-2.57
137	4	12.98	6.69	50.43	1.59	-17.35	-8.22	6.22	10.31	-17.70	55.97	-3.94
138	1	12.24	6.97	56.68	1.21	-19.60	-8.82	6.67	11.06	-17.63	62.91	-5.02
138	2	12.24	7.46	57.18	3.18	-19.99	-11.10	7.55	13.42	-18.26	63.78	-3.42
138	3	11.33	7.88	66.42	4.77	-23.35	-11.96	7.78	14.27	-18.57	74.26	-3.07
138	4	11.33	7.36	65.87	2.77	-22.92	-9.64	6.86	11.83	-18.00	73.62	-4.68
139	1	10.65	7.64	73.05	2.41	-25.49	-10.19	7.22	12.49	-17.91	81.29	-5.83
139	2	10.65	8.18	73.53	4.68	-25.98	-12.59	8.19	15.02	-18.52	82.23	-4.02
139	3	9.74	8.59	83.78	6.44	-29.61	-13.24	8.14	15.54	-18.72	93.81	-3.59
139	4	9.74	8.02	83.38	4.23	-29.11	-10.88	7.12	13.00	-18.17	92.94	-5.22
140	1	9.06	8.31	91.28	3.74	-31.82	-11.30	7.19	13.40	-18.01	101.63	-6.60
140	2	9.06	8.89	91.50	6.22	-32.36	-13.64	8.41	16.02	-18.60	102.29	-4.67
140	3	8.15	9.30	102.24	7.96	-35.84	-13.96	7.87	16.02	-18.62	114.31	-4.11
140	4	8.15	8.69	102.31	5.57	-35.37	-11.76	6.59	13.48	-18.09	113.87	-5.98
141	1	7.47	8.97	110.58	4.78	-37.78	-11.96	6.26	13.50	-17.77	122.68	-7.32
141	2	7.47	9.60	110.07	7.32	-38.30	-14.04	7.69	16.01	-18.36	122.72	-5.39
141	3	6.56	10.01	120.04	8.46	-40.89	-13.66	6.34	15.06	-18.12	133.42	-4.90
141	4	6.56	9.36	121.66	6.35	-40.35	-11.93	4.80	12.86	-17.50	134.38	-6.37
142	1	5.89	9.64	129.34	4.68	-41.78	-11.71	3.62	12.25	-16.92	142.05	-6.03
142	2	5.89	10.32	126.94	7.00	-42.16	-13.10	5.41	14.18	-17.55	140.29	-6.33
142	3	4.97	10.73	135.15	7.42	-41.88	-11.91	2.48	12.16	-16.63	147.69	-5.09
142	4	4.97	10.02	138.82	5.02	-42.37	-11.26	0.66	11.28	-16.17	151.11	-7.87
143	1	4.29	10.30	145.62	2.45	-41.04	-10.76	-1.76	10.90	-14.91	156.55	-8.49
143	2	4.29	11.03	139.30	4.19	-40.99	-10.92	0.00	10.92	-15.63	150.76	-7.37
143	3	3.38	11.44	140.62	0.70	-36.08	-8.54	-6.17	10.54	-13.64	149.37	-8.06
143	4	3.38	10.89	154.39	2.17	-34.91	-10.20	-6.85	12.29	-12.32	165.01	-5.46
144	1	2.70	10.97	157.38	-4.81	-29.32	-11.06	-12.63	16.79	-9.94	168.52	-8.54
144	2	2.70	11.74	142.49	-4.03	-27.12	-7.62	-13.58	15.67	-10.16	147.65	-8.99
144	3	1.73	12.15	142.07	-5.86	-1.95	-7.27	-24.76	25.80	-0.76	142.09	-5.50
144	4	1.73	11.36	164.64	-12.89	-17.27	-14.81	-19.34	24.36	-8.50	166.31	-14.55
145	1	30.55	1.10	0.08	0.04	-0.05	-0.13	-0.05	0.13	-32.33	0.11	0.00
145	2	30.55	1.17	0.09	0.03	-0.05	-0.24	0.11	0.26	-27.51	0.11	0.00
145	3	25.64	1.63	0.41	0.10	-0.22	-0.32	0.24	0.40	-27.39	0.53	-0.01
145	4	25.64	1.53	0.40	0.10	-0.20	-0.34	0.27	0.44	-26.84	0.50	-0.01
146	1	24.96	1.94	0.67	0.12	-0.30	-0.61	0.42	0.74	-23.57	0.81	-0.01
146	2	24.96	1.96	0.68	0.16	-0.32	-0.90	0.39	0.98	-25.49	0.84	0.01
146	3	24.05	2.42	1.30	0.29	-0.63	-1.57	0.90	1.81	-25.60	1.60	-0.01
146	4	24.05	2.28	1.32	0.20	-0.55	-1.20	0.80	1.44	-22.19	1.55	-0.03
147	1	23.37	2.59	1.99	0.22	-0.79	-1.71	1.07	2.02	-20.81	2.25	-0.09
147	2	23.27	2.75	1.95	0.41	-0.90	-2.43	1.25	2.73	-24.79	2.37	0.00
147	3	22.46	3.21	3.19	0.67	-1.48	-3.54	1.97	4.05	-24.76	3.87	-0.02
147	4	22.46	3.02	3.32	0.37	-1.26	-2.46	1.64	2.95	-20.31	3.78	-0.10
148	1	21.78	3.34	4.51	0.39	-1.67	-3.07	1.96	3.65	-19.52	5.10	-0.20
148	2	21.78	3.55	4.32	0.87	-1.97	-4.60	2.44	5.21	-24.39	5.21	-0.02
148	3	20.87	4.01	6.27	1.26	-2.85	-6.03	3.24	6.84	-24.34	7.55	-0.03
148	4	20.87	3.77	6.60	0.64	-2.40	-3.91	2.50	4.64	-19.45	7.45	-0.21
149	1	20.19	4.09	8.40	0.64	-3.01	-4.58	2.97	5.46	-18.93	9.43	-0.39
149	2	20.19	4.34	7.95	1.56	-3.59	-7.26	3.91	8.25	-24.16	9.56	-0.05
149	3	19.28	4.80	10.77	2.11	-4.84	-8.99	4.76	10.18	-24.09	12.93	-0.05
149	4	19.28	4.52	11.41	1.01	-4.07	-5.56	3.51	6.57	-19.02	12.81	-0.39
150	1	18.60	4.83	13.94	1.02	-4.94	-6.24	4.04	7.43	-18.69	15.61	-0.65
150	2	18.60	5.14	13.15	2.54	-5.89	-10.35	5.61	11.77	-24.00	15.77	-0.08
150	3	17.69	5.60	16.94	3.29	-7.58	-12.34	6.53	13.96	-24.00	20.31	-0.09



50	4	17.61	5.87	17.99	1.56	-6.38	-7.34	4.63	6.67	18.51	80.16	-0.88
[illegible]	[illegible]	17.01	5.58	21.38	1.57	-7.55	-8.09	5.21	9.68	-18.06	83.03	-0.87
[illegible]	[illegible]	17.01	5.83	20.13	3.87	-9.96	-13.90	7.46	15.78	87.52	[illegible]	-1.18
[illegible]	[illegible]	16.10	6.29	25.09	4.80	-11.20	-16.02	8.41	19.09	-23.55	[illegible]	-0.[illegible]
[illegible]	[illegible]	16.14	6.01	20.65	8.34	-9.45	-9.84	5.18	10.90	11.94	[illegible]	-0.[illegible]
[illegible]	[illegible]	15.48	6.33	30.98	2.39	-10.98	-10.07	6.44	11.95	-18.37	[illegible]	-1.24
[illegible]	[illegible]	15.47	6.72	25.15	5.61	-13.01	-17.69	9.49	20.07	83.53	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	7.18	25.39	6.88	-15.62	-19.91	10.44	22.49	-23.99	[illegible]	-1.[illegible]
[illegible]	[illegible]	14.81	6.76	37.56	3.43	-13.42	-11.85	6.99	13.24	-19.09	[illegible]	-1.[illegible]
[illegible]	[illegible]	13.83	7.08	42.87	3.55	-15.34	-12.04	7.67	14.26	-18.99	[illegible]	-1.[illegible]
[illegible]	[illegible]	13.97	7.52	40.33	7.82	-18.06	-21.56	11.54	24.40	-24.01	[illegible]	-0.[illegible]
[illegible]	[illegible]	14.02	7.99	47.85	9.03	-21.43	-23.75	12.39	26.78	-24.03	[illegible]	-0.[illegible]
[illegible]	[illegible]	12.98	7.51	50.78	4.87	-18.31	-13.18	8.07	15.45	-19.29	[illegible]	-1.[illegible]
[illegible]	[illegible]	12.88	7.82	57.08	5.06	-20.63	-13.94	8.71	16.44	-19.21	[illegible]	-2.[illegible]
[illegible]	[illegible]	12.34	8.31	53.76	10.49	-24.12	-25.38	13.67	28.78	-24.05	[illegible]	-0.[illegible]
[illegible]	[illegible]	11.93	8.77	62.34	12.83	-27.98	-27.42	14.21	30.89	-24.06	[illegible]	-0.[illegible]
[illegible]	[illegible]	11.33	8.25	66.20	6.65	-24.09	-14.98	8.99	17.47	-19.49	[illegible]	-1.[illegible]
[illegible]	[illegible]	10.85	8.57	73.33	6.84	-26.70	-15.59	9.51	18.26	-19.39	[illegible]	-2.[illegible]
[illegible]	[illegible]	10.85	8.11	69.02	13.52	-30.99	-28.89	15.32	32.78	-24.02	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	8.57	78.37	15.38	-35.19	-30.68	15.88	34.55	-24.09	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	8.10	83.40	8.59	-30.43	-16.38	9.50	18.96	-19.27	[illegible]	-1.[illegible]
[illegible]	[illegible]	[illegible]	8.38	91.04	8.65	-33.14	-16.77	9.94	19.49	-19.41	[illegible]	-2.[illegible]
[illegible]	[illegible]	[illegible]	9.80	85.37	16.70	-38.31	-31.92	16.86	36.16	-24.07	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	10.36	94.76	18.49	-42.33	-33.23	16.97	37.31	-24.06	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	9.75	101.33	10.27	-36.76	-17.05	9.57	19.55	-19.46	[illegible]	-1.[illegible]
[illegible]	[illegible]	[illegible]	10.06	108.96	9.95	-39.05	-17.00	9.47	19.46	-19.[illegible]	[illegible]	-2.[illegible]
[illegible]	[illegible]	[illegible]	10.70	101.10	19.54	-45.09	-33.97	17.84	38.37	-23.94	[illegible]	-0.[illegible]
[illegible]	[illegible]	[illegible]	11.15	108.81	20.61	-48.29	-34.49	17.58	39.69	-23.80	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	10.80	116.24	11.07	-41.50	-16.58	8.82	18.56	-19.97	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	124.51	9.62	-42.97	-15.76	7.69	17.54	-19.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	112.53	20.93	-49.83	-34.58	17.70	36.73	-23.55	[illegible]	[illegible]
[illegible]	1	-0.[illegible]	1.75	116.99	21.13	-49.90	-33.03	15.54	36.51	-23.08	[illegible]	-0.[illegible]
[illegible]	2	-0.[illegible]	1.24	130.81	9.26	-43.22	-14.03	5.06	14.91	-19.76	[illegible]	-0.[illegible]
[illegible]	3	-0.[illegible]	1.80	122.24	6.56	-41.19	-11.80	2.48	12.14	-19.48	[illegible]	-0.[illegible]
[illegible]	4	-0.[illegible]	2.88	116.69	19.82	-48.60	-31.00	14.95	34.68	-23.91	[illegible]	-0.[illegible]
[illegible]	1	-0.[illegible]	2.74	107.42	15.61	-44.57	-25.11	11.18	27.99	-22.78	[illegible]	-0.[illegible]
[illegible]	2	-0.[illegible]	1.19	133.78	4.82	-33.29	-7.83	-4.87	9.28	-13.85	[illegible]	-0.[illegible]
[illegible]	3	-0.[illegible]	2.21	128.54	-4.88	-26.87	-4.88	-13.21	14.09	-10.97	[illegible]	-0.[illegible]
[illegible]	4	-0.[illegible]	1.78	93.55	8.01	-33.00	-15.17	-0.16	15.17	-19.83	[illegible]	-0.[illegible]
[illegible]	1	-0.[illegible]	13.84	85.90	6.26	-9.29	7.15	-13.13	14.98	-10.96	87.58	-0.26
[illegible]	4	-0.[illegible]	13.74	103.06	-9.48	-9.85	1.61	-25.01	25.08	-4.97	[illegible]	-0.[illegible]
[illegible]	[illegible]	1.30	0.30	303.61	18.32	-7.27	-75.97	-6.97	76.89	-1.46	303.80	-0.12
[illegible]	2	1.30	1.10	314.79	22.45	-39.40	-60.62	13.47	62.10	-7.54	321.01	-0.[illegible]
[illegible]	3	0.88	1.10	352.07	46.54	-119.31	-63.76	32.42	71.53	-18.83	393.48	-1.[illegible]
[illegible]	4	1.30	0.30	303.75	-85.53	16.54	-74.75	-16.38	76.53	8.43	304.43	-0.61
162	1	0.57	0.30	267.81	-130.16	-57.76	-50.14	63.24	80.70	-5.09	270.02	-1.38
162	3	0.57	1.10	455.03	19.49	-26.32	-104.35	3.69	104.41	-3.17	456.48	-0.65
162	2	0.15	1.10	475.18	49.12	336.95	-138.47	-119.55	182.94	28.85	660.75	-1.51
162	4	0.15	0.30	318.88	198.88	142.81	-55.27	-2.60	55.35	-33.61	413.78	1.39
163	1	1.30	1.70	326.44	14.66	-31.10	-72.16	3.48	72.24	-5.64	329.52	1.59
163	2	1.30	2.50	312.42	17.67	-38.37	-58.05	-4.09	58.19	-7.30	317.33	1.75
163	3	0.88	2.50	338.82	9.48	-99.90	-63.83	6.54	64.17	-15.62	366.75	-1.48
163	4	0.88	1.70	362.74	19.12	63.94	-81.92	-19.13	84.13	10.21	374.25	7.61
164	1	0.57	1.70	352.42	40.25	19.72	-74.47	-28.64	79.79	3.60	353.66	39.01
164	2	0.57	2.50	383.25	42.87	-11.83	-78.10	-17.65	80.07	-1.99	383.66	42.46
164	3	0.15	2.50	415.99	53.86	289.98	-90.42	-88.38	126.49	29.01	576.79	-106.95
164	4	0.15	1.70	369.19	33.81	-362.99	-50.93	38.03	63.56	-32.60	601.35	-138.36
165	1	1.30	3.10	313.82	28.73	-18.52	-59.59	-11.55	60.70	-3.70	315.02	27.53

165	2	1.30	3.90	291.32	25.95	-35.25	-51.69	-12.74	53.23	-7.55	296.07	20.80
165	3	0.88	3.90	312.80	26.86	-94.53	-52.98	-6.67	53.40	16.74	341.22	-1.55
165	4	0.88	3.10	340.84	42.44	55.95	-67.10	-32.18	74.85	10.89	454.99	22.30
166	1	0.57	3.10	329.95	35.05	-25.18	-60.55	-19.80	63.71	-4.89	452.03	32.91
166	2	0.67	3.90	356.19	31.88	-15.49	-61.58	-27.80	60.02	-2.73	456.67	31.14
166	3	0.15	3.90	383.41	47.15	259.79	-73.82	-80.35	109.11	28.55	524.73	-94.17
166	4	0.15	3.10	362.11	35.78	-274.84	-59.19	20.49	62.64	-29.85	518.57	-130.69
167	1	1.30	4.50	293.61	28.57	-21.91	-49.87	-17.02	52.69	-4.69	295.41	26.77
167	2	1.30	5.30	270.62	20.48	-35.64	-43.04	-16.87	46.22	-7.95	275.60	15.51
167	3	0.88	5.30	289.72	19.68	-86.35	-44.09	-13.31	46.05	-16.35	314.05	-5.65
167	4	0.82	4.50	314.88	36.64	45.57	-56.03	-32.42	63.87	9.07	422.12	29.37
168	1	0.57	4.50	309.52	35.50	-15.82	-52.89	-26.48	59.15	-3.29	310.43	24.59
168	2	0.67	5.30	325.59	29.28	-14.41	-51.23	-28.48	58.58	-2.18	326.79	18.55
168	3	0.15	5.30	348.16	40.60	234.05	-61.40	-75.05	96.97	28.35	474.43	-85.67
168	4	0.15	4.50	329.70	31.82	-261.43	-47.88	6.47	48.32	-30.17	481.84	-120.12
169	1	1.30	5.90	270.44	22.62	-22.16	-40.64	-19.81	45.21	-5.07	272.41	20.65
169	2	1.30	6.70	248.00	12.36	-34.83	-34.04	-18.84	38.91	-8.23	252.04	7.32
169	3	0.88	6.70	262.32	11.37	-79.49	-34.29	-17.28	38.40	16.19	285.39	-11.60
169	4	0.82	5.90	282.89	30.27	39.26	-45.04	-33.49	56.13	8.44	294.72	24.44
170	1	0.57	5.90	279.45	26.84	-18.36	-41.75	-28.79	50.72	-4.14	280.77	25.51
170	2	0.67	6.70	295.89	18.91	-14.39	-40.39	-29.99	50.31	-2.97	296.83	18.96
170	3	0.15	6.70	313.92	29.67	208.56	-49.87	-66.23	84.51	27.87	434.19	-80.79
170	4	0.15	5.90	297.56	23.34	-232.66	-37.05	-5.11	37.40	-29.05	430.50	-109.91
171	1	1.30	7.30	247.58	13.87	-21.73	-31.73	-20.56	37.81	-5.27	249.59	11.87
171	2	1.30	8.10	225.57	2.67	-32.60	-25.50	-18.90	31.74	-8.15	230.24	-2.33
171	3	0.88	8.10	237.06	0.71	-71.56	-24.63	-19.09	31.16	15.60	257.67	-1.27
171	4	0.88	7.30	261.96	19.79	33.07	-35.02	-31.97	47.41	7.64	266.29	15.21
172	1	0.57	7.30	251.00	16.29	-17.03	-31.31	-29.63	43.11	-4.13	253.37	9.71
172	2	0.67	8.10	266.27	7.62	-14.12	-30.66	-29.96	42.17	-3.15	267.04	3.83
172	3	0.15	8.10	279.85	16.77	184.91	-37.11	-59.62	69.35	27.39	328.33	-43.41
172	4	0.15	7.30	263.94	11.66	-208.17	-25.48	-14.08	29.18	-27.48	321.27	-57.51
173	1	1.30	8.70	225.10	4.10	-19.55	-23.38	-19.81	30.26	-5.08	226.33	3.79
173	2	1.30	9.50	205.56	-6.42	-28.50	-18.60	-17.27	25.98	-7.43	207.01	-9.04
173	3	0.88	9.50	212.80	-8.60	-62.82	-17.57	-17.18	24.57	12.76	241.31	-19.71
173	4	0.88	8.70	226.42	8.60	29.19	-25.47	-28.07	37.91	7.16	234.[illegible]	-11.[illegible]
174	1	0.57	8.70	224.66	3.61	-15.33	-21.05	-26.00	35.03	-3.89	225.74	1.97
174	2	0.67	9.50	236.74	-3.92	-9.74	-18.81	-24.82	31.16	-5.20	239.11	-4.07
174	3	0.15	8.50	248.07	3.50	161.22	-27.57	-43.92	51.86	26.41	288.[illegible]	-43.86
174	4	0.15	9.70	223.87	-0.69	-183.75	-14.54	-19.98	24.63	-28.[illegible]	234.[illegible]	-[illegible]
175	1	1.30	10.10	205.75	-5.48	-13.96	-17.86	-16.12	24.06	-3.76	211.67	-8.40
175	2	1.30	10.90	180.11	-14.51	-18.98	-17.81	-14.70	23.09	-5.62	191.86	-16.25
175	3	0.88	10.90	197.68	16.57	-48.94	-12.10	-13.70	18.97	12.28	208.33	-37.21
175	4	0.88	10.10	215.72	-4.98	27.29	-19.56	-21.24	28.87	6.87	219.06	-7.87
176	1	0.57	10.10	202.66	-4.95	-13.10	-13.81	-19.76	24.11	-3.60	203.48	-5.79
176	2	0.67	10.90	219.60	-8.71	-10.92	-23.02	-9.34	24.84	-2.72	220.13	-9.23
176	3	0.15	10.90	228.17	-4.52	154.92	-5.94	-17.96	18.25	26.55	305.57	-31.42
176	4	0.15	10.10	208.72	-10.21	-162.59	-4.34	-18.84	19.34	-28.03	295.86	-56.75
177	1	1.30	11.50	193.13	-13.08	0.15	-21.90	-18.58	28.67	0.04	193.13	-13.98
177	2	1.30	12.30	147.41	-17.92	9.32	-8.57	-28.57	29.82	3.42	137.96	-19.47
177	3	0.88	12.30	139.07	-37.58	5.22	-12.10	-21.61	24.77	1.69	139.83	-37.74
177	4	0.88	11.50	211.68	-5.46	29.96	-29.93	-6.50	30.63	7.72	215.68	-9.52
178	1	0.57	11.50	203.86	-17.60	-10.32	-20.04	-0.58	20.04	-2.66	204.34	-18.08
178	2	0.57	12.30	229.92	-24.75	47.72	-10.14	-2.98	10.57	10.27	238.51	-33.39
178	3	0.15	12.30	242.03	32.17	124.36	-41.32	85.69	95.14	24.92	299.82	-25.61
178	4	0.15	11.50	213.43	0.54	-151.35	-4.01	7.02	8.08	-27.44	292.02	-78.05
179	1	1.30	12.90	85.73	-0.50	13.53	7.99	-28.08	29.19	8.71	87.80	-2.57
179	2	1.30	13.70	33.36	5.06	-2.31	21.69	-9.63	23.73	-4.64	33.54	4.88
179	3	0.88	13.70	11.41	-12.64	-10.32	30.32	2.05	30.39	20.31	15.23	-16.45

179	4	0.88	12.90	86.03	20.55	50.61	13.88	-20.18	84.49	89.55	113.56	-6.99
180	1	0.57	12.90	-2.45	8.15	49.16	8.71	-3.79	9.50	48.08	52.29	-46.59
180	2	0.57	13.70	10.13	-1.93	-12.79	35.98	4.82	36.30	-38.39	18.84	-10.04
180	3	0.15	13.70	0.93	-4.71	9.48	5.20	18.47	19.19	36.72	8.01	-11.79
180	4	0.15	12.90	-16.95	45.51	-38.69	46.17	85.05	99.42	34.88	10.01	-78.47
181	MUELLE	127.545										
182	MUELLE	111.468										
183	MUELLE	95.102										
184	MUELLE	78.559										
185	MUELLE	61.839										
186	MUELLE	44.920										
187	MUELLE	27.756										
188	MUELLE	10.289										
189	MUELLE	-7.606										

RESULTANTES DE TENSIONES

NUDO	FUER. Z	MOME. X	MOME. Y
	3.20	0.00	0.00
2	-1.85	0.00	0.00
3	3.46	0.00	0.00
4	-1.60	0.00	0.00
5	-0.81	0.00	0.00
6	-155.39	0.00	488.08
7	-0.83	0.00	0.00
8	2.70	0.00	0.00
9	3.97	0.00	0.00
10	-1.36	0.00	0.00
11	2.73	0.00	0.00
12	-1.09	0.00	0.00
13	-138.20	0.00	437.22
14	-1.06	0.00	0.00
15	2.97	0.00	0.00
16	-2.71	0.00	0.00
17	3.70	0.00	0.00
18	3.95	0.00	0.00
19	-2.09	0.00	0.00
20	4.21	0.00	0.00
21	-168.23	0.00	533.21
22	-1.05	0.00	0.00
23	4.28	0.00	0.00
24	5.10	0.00	0.00
25	-5.32	0.00	0.00
26	3.21	0.00	0.00
27	4.33	0.00	0.00
28	-1.95	0.00	0.00
29	2.72	0.00	0.00
30	3.57	0.00	0.00
31	-1.57	0.00	0.00
32	2.22	0.00	0.00
33	-1.12	0.00	0.00
34	2.47	0.00	0.00
35	2.23	0.00	0.00
36	-0.56	0.00	0.00
37	-88.60	0.00	387.95
38	-4.36	0.00	0.00

39	9.22	0.00	0.00
40	3.87	0.00	0.00
41	3.29	0.00	0.00
42	1.65	0.00	0.00
43	-3.45	0.00	0.00
44	9.23	0.00	0.00
45	7.25	0.00	0.00
46	-1.38	0.00	0.00
47	7.13	0.00	0.00
48	4.46	0.00	0.00
49	-3.34	0.00	0.00
50	4.69	0.00	0.00
51	6.28	0.00	0.00
52	-2.90	0.00	0.00
53	6.16	0.00	0.00
54	-220.72	0.00	591.58
55	-1.17	0.00	0.00
56	4.69	0.00	0.00
57	7.31	0.00	0.00
58	-2.42	0.00	0.00
59	5.12	0.00	0.00
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61	-1.94	0.00	0.00
62	4.10	0.00	0.00
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88	-2.98	0.00	0.00
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188	1.62	0.00	0.00
189	-0.65	0.00	0.00
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192	-0.33	0.00	0.00
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195	-0.08	0.00	0.00
196	0.17	0.00	0.00
197	-0.09	0.00	0.00
198	0.37	0.00	0.00
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200	-0.11	0.00	0.00
201	0.49	0.00	0.00
202	0.22	0.00	0.00
203	-0.13	0.00	0.00
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208	0.25	0.00	0.00
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211	0.24	0.00	0.00
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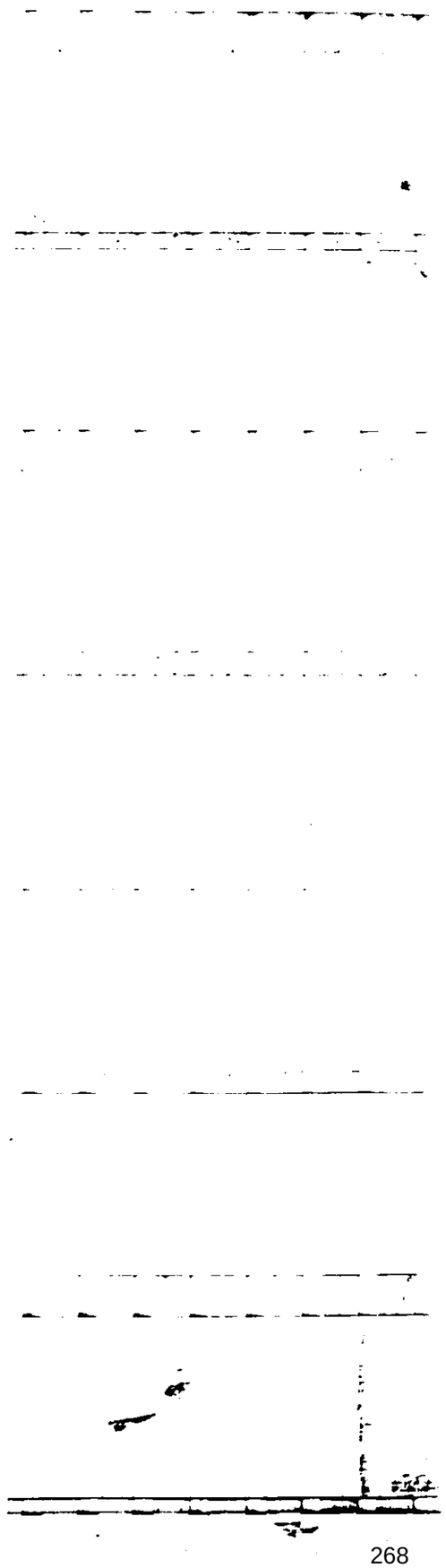
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266	1.62	0.00	0.00
267	-0.72	0.00	0.00
268	1.52	0.00	0.00
269	1.16	0.00	0.00
270	-0.47	0.00	0.00

271	1.01	0.00	0.00
272	0.68	0.00	0.00
273	-0.34	0.00	0.00
274	0.51	0.00	0.00
275	0.23	0.00	0.00
276	-0.06	0.00	0.00
277	0.13	0.00	0.00
278	-0.93	0.00	0.00
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281	3.61	0.00	0.00
282	2.01	-0.01	0.00
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284	-1.53	0.00	0.00
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286	2.87	0.00	0.00
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291	3.53	0.00	0.00
292	2.12	0.00	0.00
293	-0.95	0.00	0.00
294	2.11	0.00	0.00
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298	1.24	0.00	0.00
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322	-0.94	0.00	0.00
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328	-0.66	0.00	0.00

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336	0.45	0.00	0.00
337	-0.16	0.00	0.00
338	0.34	0.00	0.00
339	0.13	0.00	0.00
340	-0.02	0.00	0.00
341	0.09	0.00	0.00
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344	-1.12	0.00	0.00
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347	2.11	0.00	0.00
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356	1.41	0.00	0.00
357	-0.39	0.00	0.00
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361	1.15	0.00	0.00
362	0.81	0.00	0.00
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369	-0.10	0.00	0.00
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371	0.18	0.00	0.00
372	-0.02	0.00	0.00
373	0.07	0.00	0.00
374	-0.47	0.00	0.00
375	1.94	0.00	0.00
376	-0.99	0.00	0.00
377	1.98	0.00	0.00
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388	1.10	0.00	0.00
389	-0.49	0.00	0.00
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436	-0.04	0.00	0.00
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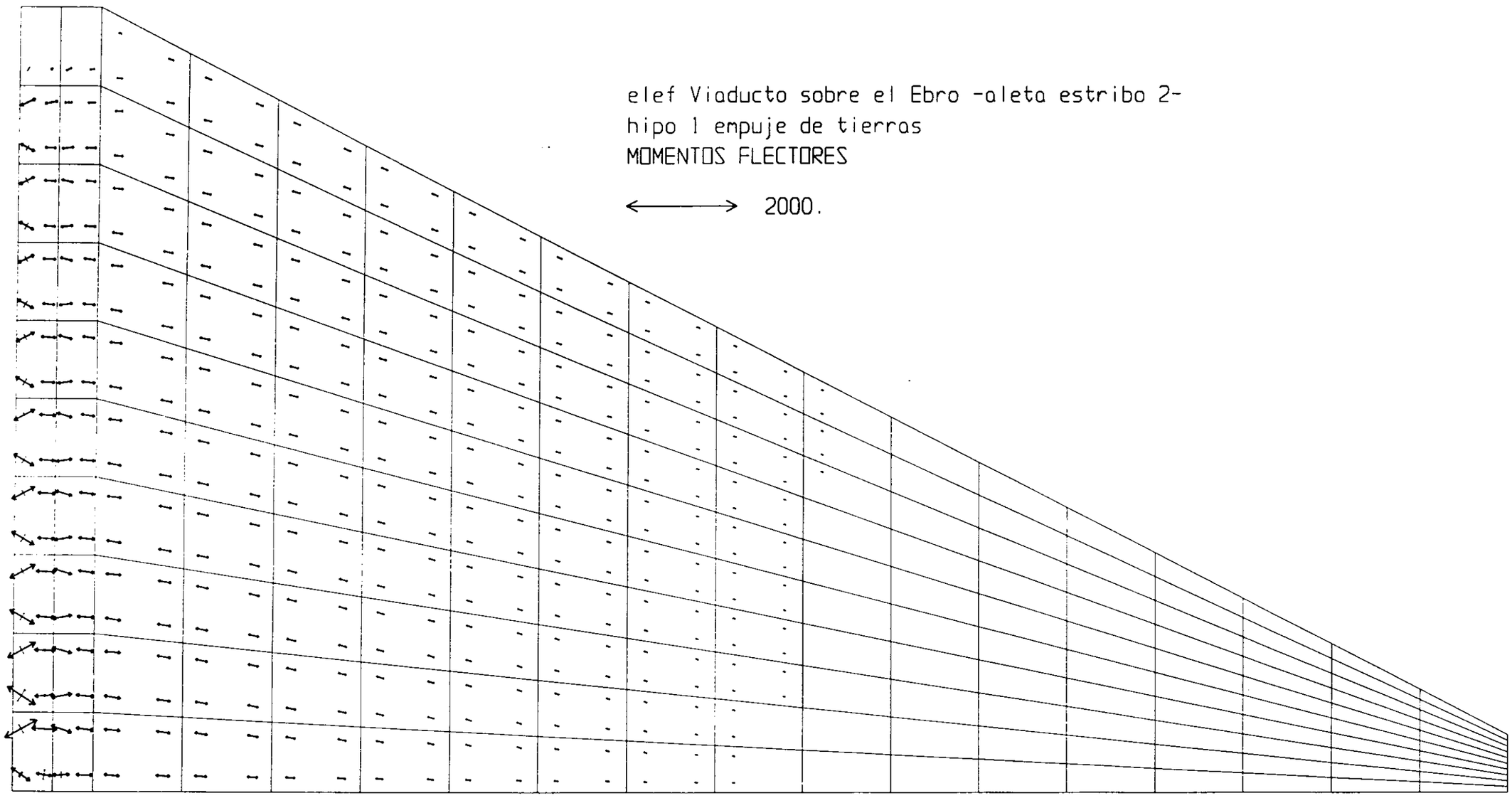
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456	-0.26	0.00	0.00
457	0.47	0.00	0.00
458	0.33	0.00	0.00
459	-0.19	0.00	0.00
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461	0.23	-0.01	0.00
462	-0.07	0.00	0.00
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465	-0.02	0.00	0.00
466	0.11	0.00	0.00
467	0.02	0.00	0.00
468	-0.01	0.00	0.00
469	0.05	0.00	0.00
470	-0.14	0.00	0.00
471	0.60	0.00	0.00
472	-0.29	0.00	0.00
473	0.77	0.00	0.00
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475	0.53	0.00	0.00
476	-0.29	0.00	0.00
477	0.66	-0.01	0.00
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480	0.58	0.00	0.00
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482	-0.20	0.00	0.00
483	0.49	0.00	0.00
484	0.24	0.00	0.00
485	-0.17	0.00	0.00
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488	-0.15	0.00	0.00
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490	0.30	0.01	0.00
491	-0.15	0.00	0.00
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493	0.20	0.00	0.00
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495	0.16	0.00	0.00
496	0.14	0.00	0.00
497	-0.01	0.00	0.00
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499	0.01	0.00	0.00
500	-0.01	0.00	0.00
501	0.01	0.00	0.00
502	-0.05	0.00	0.00



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504	-0.13	0.00	0.00
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510	0.26	0.00	0.00
511	-0.14	0.00	0.00
512	0.35	0.00	0.00
513	0.31	0.00	0.00
514	-0.15	0.00	0.00
515	0.28	0.00	0.00
516	0.23	0.00	0.00
517	-0.01	0.00	0.00
518	0.26	0.00	0.00
519	0.11	0.00	0.00
520	-0.05	0.00	0.00
521	0.24	0.00	0.00
522	0.22	0.00	0.00
523	-0.07	0.00	0.00
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525	0.16	0.00	0.00
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527	-0.13	0.00	0.00
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529	-0.04	0.00	0.00
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531	0.01	0.00	0.00
532	0.02	0.00	0.00
533	0.00	0.00	0.00
534	-0.07	0.00	0.00
535	0.20	0.00	0.00
536	-0.09	0.00	0.00
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538	0.13	0.00	0.00
539	0.15	0.00	0.00
540	-0.05	0.00	0.00
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546	-0.02	0.00	0.00
547	0.11	0.00	0.00
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551	-0.10	0.00	0.00
552	-0.07	0.00	0.00
553	0.08	-0.01	0.00
554	0.09	0.00	0.00
555	-0.11	0.00	0.00
556	0.09	0.00	0.00
557	0.04	0.00	0.00
558	-0.04	0.00	0.00
559	0.01	0.00	0.00
560	0.17	0.00	0.00

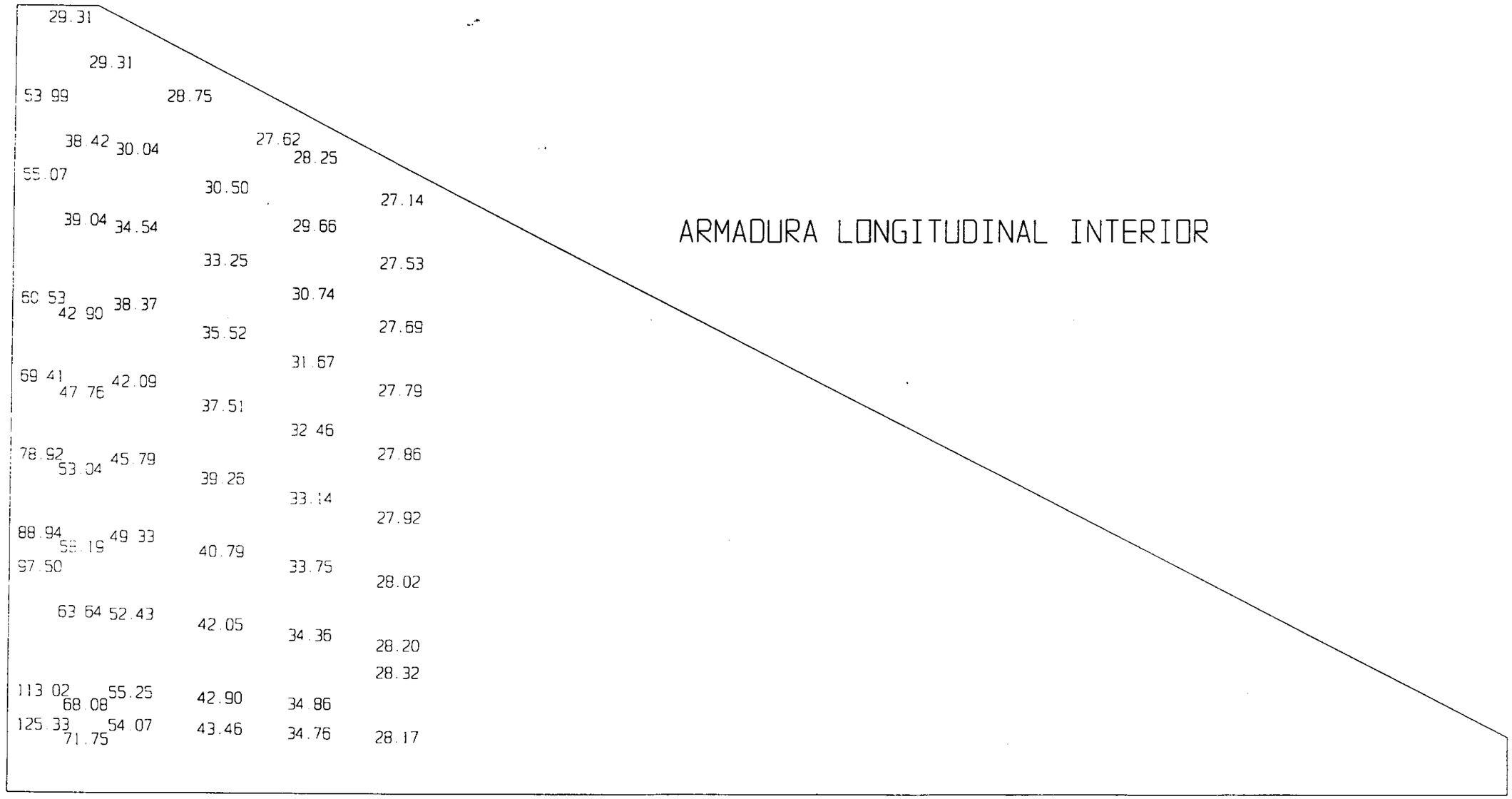
561	-0.08	0.00	0.00
562	0.01	0.00	0.00
563	-0.03	0.00	0.00
564	0.03	0.00	0.00
565	0.01	0.00	0.00
566	-0.02	0.00	0.00
567	0.11	0.00	0.00
568	-0.02	0.00	0.00
569	0.13	0.00	0.00
570	0.03	0.00	0.00
571	0.08	0.00	0.00
572	-0.03	0.00	0.00
573	0.10	0.00	0.00
574	0.10	0.00	0.00
575	-0.01	0.00	0.00
576	0.07	0.00	0.00
577	0.11	0.00	0.00
578	0.05	0.00	0.00
579	0.10	0.00	0.00
580	-0.04	0.00	0.00
58	0.18	0.00	0.00
582	0.03	0.00	0.00
583	-0.04	0.00	0.00
584	0.01	0.00	0.00
585	0.03	0.00	0.00
586	0.00	0.00	0.00
587	-0.03	0.00	0.00
588	0.02	0.00	0.00
589	-0.01	0.00	0.00
590	-0.18	0.00	0.00
591	0.00	0.00	0.00
592	0.08	0.00	0.00
593	-0.12	0.00	0.00
594	-0.06	0.00	0.00
595	0.13	0.00	0.00
596	-0.01	0.00	0.00
597	0.00	0.00	0.00

elef Viaducto sobre el Ebro -aleta estribo 2-
hipo 1 empuje de tierras
MOMENTOS FLECTORES



⟷ 2000.

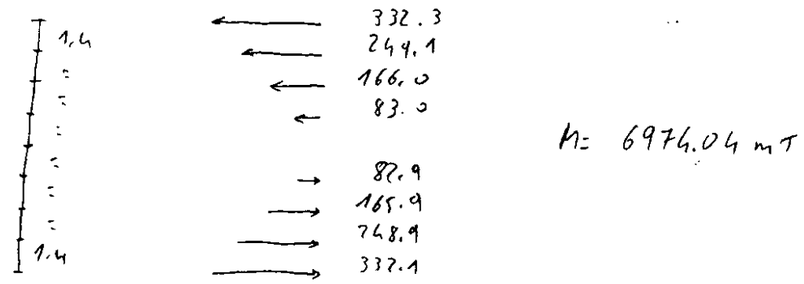
ARMADURA LONGITUDINAL INTERIOR



Peso propio de la viga

P = 848.512 T

momento de peso propia



M = 6976.04 mT

flecha en la punta 268 mm $\frac{1}{100}$ luz

$U_c = \frac{2500}{1.5} 2.0 \times 132 = 44000$

$w = 44000\left[1 - \sqrt{1 - \frac{2 \times 6976.04 \times 1.5}{44000 \times 132}}\right] \frac{1.15}{5.1} = 180.57 \text{ cm}^2$

37 Ø25

Empuje de tierras

Carga horizontal 550.42 T

- 7.6
- 10.3
- 27.8
- 44.9
- 61.8
- 78.6
- 95.1
- 111.5
- 127.5

M_{max} = 475.12 mT/m Q = 138.47 T/m

$U_c = \frac{2500}{1.5} 1.95 = 3250$ T/m

$w = 3250\left[1 - \sqrt{1 - \frac{2 \times 475.12 \times 1.5}{3250 \times 1.95}}\right] \frac{1.15}{5.1} = 87.57 \text{ cm}^2/\text{m}$

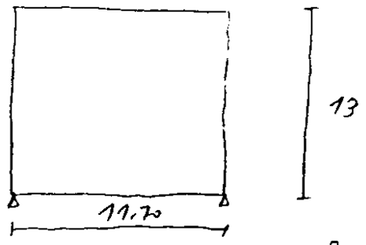
$V_{cu} = 0.5\sqrt{\frac{250}{1.5}} 10 \times 1.95 = 125.87$ T/m

$w_c = \frac{138.47 \times 1.5 - 125.87}{0.9 \times 1.95} \frac{1}{4.2} = 11.1 \text{ cm}^2/\text{m}$

flecha horizontal 36 mm

Muro frontal

espesor 2 m



- peso propio $M = 13 \times 7 \times 2.5 \frac{11.7^2}{8} = 1117.23$ mT

$Z = 0.6 \times 11.70 = 7.02$

$w = \frac{1117.23}{7.02} 1.5 \frac{1.15}{5.1} = 53.59 \text{ cm}^2$ 11 ϕ 25
18 ϕ 20

- encepado $M = 2.8 \times 1 \times 2.5 \frac{11.7^2}{8} = 119.78$ mT

$U_c = \frac{2500}{1.5} 0.95 \times 2.8 = 4433$ T

$w = 4433 \left[1 - \sqrt{1 - \frac{2 \times 119.78 \times 1.5}{44.33 \times 0.95}} \right] \frac{1.15}{5.1} = 43.60 \text{ cm}^2$ 14 ϕ 20

- empuje de tierras

$q = 0.738 (13.5 \times 2.2 + 1.5) = 7.63$ T/m

$M = 7.63 \frac{11.7^2}{10} = 101.71$ mT/m

$U_c = \frac{2500}{1.5} 1.95 = 3250$ T/m

$w = 3250 \left[1 - \sqrt{1 - \frac{2 \times 101.71 \times 1.5}{3250 \times 1.95}} \right] \frac{1.15}{5.1} = 17.81 \text{ cm}^2/\text{m}$

12 a 0,15

Cimentación frente estribo

- Carga vertical

Peso viga	848.51	T
peso muro $13 \times 7 \times 2.5 \frac{11.7}{2}$ =	380.25	T
encepado $2.8 \times 1 \times 2.5 \frac{11.7}{2}$ =	40.45	T
muro trasero $2.9 \times 1.4 \times 12 \times 2.5$ =	121.80	T
losa superior $5.15 \times 2.9 \times 0.8 \times 2.5$ =	29.87	T
Carga máxima del puente	814.87	T
Carga máxima empuje		

Carga máxima (por pilote) 2236.25

Para cada tres pilotes de 2 m en el frente del estribo la carga total es (teniendo en cuenta que la otra viga pesa 675.77 T)

Carga máx $\frac{4794.76}{3} = 1433.09$ T

$\sigma = \frac{1433.09}{\frac{\pi}{4} 2^2} \frac{1}{10} = 45.6 \text{ kg/cm}^2$

Pericipe fabricación

- fuerza horizontal

empuje frontal $q_s = 0.738 \times 1.5 \times 0.357$ T/m²

$q_t = 0.738(14 \times 2.2 + 1.5) = 7.69$ T/m²

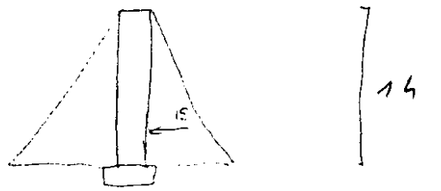
$H = \frac{11.7}{2} \frac{0.357 + 7.69}{2} 14 = 329.52$ T

efecto lateral $H = 550.42$ T

frenado y tiro del puente $H = \frac{1775.94}{2} = 887.97$ T

carga total (por cuchillo) $H_T = 1767.41$ T

- rozamiento terreno



$E = \frac{7.33}{2} 14 = 51.31$ T/m $\quad H_{roz} = 0.55 \times 51.31 = 28.22$ T/m

carga rozamiento $H_R = 2 \times 48 \times 28.22 = 2709.12$ T

coef seg. $\frac{2709.12}{1767.41} = 1.53$

- rozamiento frontal

$P = 14 \times 48 \times 1.75 \times 2.2 = 1848.0$

$H_R = 0.55 \times 1848.0 = 1016.4$ T

- carga horizontal $H = 1767.41$ T

$\omega = 1767.41 \times 1.5 \frac{1.15}{5.1} = 597.47$ cm² $\quad$ 17 Ø25

Ø25 a 0,20 por los dos caras del muro

- carga vertical

$M = 13.4 \times 0.8 \times 2.5 \times \frac{7.8^2}{10} + 247.88 \times 2 \frac{2.5.8^2}{7.8^3} = 163.05 + 140.57 = 303.62$

$z = 0.5 \times 7.8 = 3.9$

$\omega = \frac{303.62}{3.9} 1.5 \frac{1.15}{5.1} = 26.33$ cm² $\quad$ 6 Ø12

$M^- = 13.4 \times 0.8 \times 2.5 \frac{7.8^2}{12} + 247.88 \frac{2 \times 5.8^2}{7.8^2} = 135.88 + 274.12 = 410.0$ m T

$\omega^- = \frac{410}{3.9} 1.5 \frac{1.15}{5.1} = 35.56$ cm² $\quad$ 8 Ø25

- Encepado $M = 1.2 \times 2.5 \frac{7.8^2}{10} = 18.25$ m T

$U_c = \frac{2500}{1.5} 0.95 \times 1.2 = 1900$

$\omega = 1900 \left[1 - \sqrt{1 - \frac{2 \times 18.25 \times 1.5}{1900 \times 0.95}} \right] \frac{1.15}{5.1} = 6.56$ cm²

- riostra $M = 1.5 \times 2.5 \frac{11.2^2}{8} = 64.12$ m T

$U_c = \frac{2500}{1.5} 0.95 \times 1.5 = 2375$ T

$\omega = 2375 \left[1 - \sqrt{1 - \frac{2 \times 64.12 \times 1.5}{2375 \times 0.95}} \right] \frac{1.15}{5.1} = 23.30$ cm²

4 Ø20

- cimentación

$P = 13.4 \times 0.8 \times 2.5 \times 7.8 + 247.88 \frac{5.8}{7.8} = 209.04 + 184.32 = 393.36$ T

$\sigma = \frac{393.36}{\frac{\pi}{4} 1^2} \frac{1}{10} = 50.08$ kg/cm²

Pretensado porque

$H = 1767.41$ T

$P_0 = \frac{1767.41}{0.8} = 2209.84$ T

8 cord 15 ø 0.6" ∴ $N_1 = 2272$ T

armadura de refuerzo de cogidas



$\sigma_s = \frac{2272}{13 \times 1.4} + \frac{2272 \times 7.5}{\frac{1.4}{12} 13^3} = 124.84 + 22.16 = 147$ T/m²

$\sigma_i = 124.84 - 22.16 = 102.68$ T/m²

$\sigma_u = 124.84 - \frac{2272 \times 1.5}{\frac{1.4}{12} 13^3} = 111.54$ T/m²

$V_a = \frac{102.68 + 111.54}{2} 1.4 \times 5 = 749.77$ T

$N_a = 0.3 \times 749.77 = 224.93$ T

$\omega = 224.93 \frac{1}{2} = 112.47$ cm² 23 ø 25

5 cercos

refuerzo local

$T = 0.04 \times 282 = 11.28$ T

$\omega = 11.28 \frac{1}{2} = 5.64$ cm² 3 cercos

PREDIMENSIONAMIENTO TACO DE APOYO

Anclaje ±.1

- Tracción + Arranque = 60 + 10 = 70 T
- Tangencial $F_H = \mu F_V$.

$F_V = (162.23 + 384.46) + 546.12 = 2742$ T

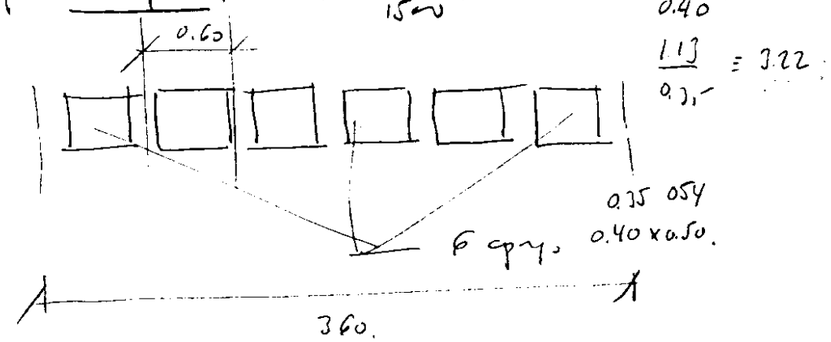
$F_H = 0.07 \times 27942.978$ T

$F_T = 70 + 978 = 1678.$ T



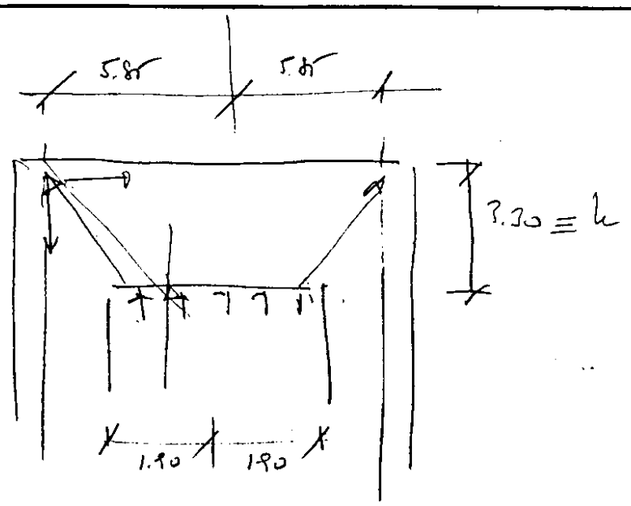
Apoyo de neopreno. $A_n = \frac{1700}{150} = 113$ $l = \frac{1.13}{0.40} = 2.83$.

$\frac{113}{0.35} = 3.22$.



$V_d = 1678.1.5 = 2518$ T $\quad V_u = 0.30 f_{cd} b.d = 0.30 \cdot \frac{250}{1.5} 360.2 =$

$= 3600$ T



$H_d = \frac{17\text{m} \cdot 1.5}{2}\left(5.85 - \frac{1.90}{2}\right) = 62.47\ T$

$T_d = \frac{62.47}{3.30} = 18.93\ T$ $\quad A_s = 45\ cm^2$ $\quad 9\,\phi\,25$ $\quad 7\phi \times 4\,\phi\,25$

$h = 40$ $\quad 15.62\ T$ $\quad A_s = 37\ cm^2$ $\quad 4\,\phi\,32$

45 $\quad 13.88$ $\quad 33.0$ $\quad 4\,\phi\,32$

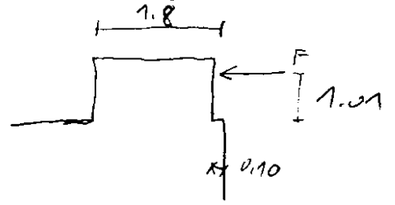
Se cree reforzar en:

$T_H = 1.5\,(9.38 + 0.6\ m) = 21.00\ T$ $\longrightarrow$ $3\,\phi\,32$

Taco frenado

- Carga frenado $1775.94\ T$

6 neoprenos 400×500 $\quad \sigma = \frac{1775.94}{6 \times 0.4 \times 0.5} \frac{1}{10} = 14.8\ kg/cm^2$



anchura $3.60\ m$

$M = 1775.94 \times 1.01 = 1793.7\ mT$

$H_c = \frac{2500}{1.5}\ 3.6 \times 1.7 = 10200\ T$

$w = 10200\left[1 - \sqrt{1 - \frac{2 \times 1793.7 \times 1.5}{10200 \times 1.7}}\right]\frac{1.15}{5.1} = 389.85\ cm^2$ $\quad 8\,\phi\,25$

Armadura del cuerpo a $7.0\ m$

$H_c = \frac{2500}{1.5}\ 3.6 \times 1.9 = 11400\ T$ $\quad w = 342.15\ cm^2$ $\quad 7\,\phi\,25$

$2\,\phi\,25 \ a\ 1.90$

$V_{cu} = 0.5\sqrt{\frac{250}{1.5}}\ 10 \times 3.6 \times 1.9 = 441.52\ T$

$w_c = \frac{1793.7 \times 1.5 - 441.52}{0.9 \times 1.9}\ \frac{1}{4.7} = 313.15\ cm^2/m$ $\quad 6\,\phi\,25$

- Armadura mínima en la cuchilla

$M = 1775.94\ \frac{11.7}{4} = 5194.67\ mT$

$H_c = \frac{2500}{1.5}\ 0.6 \times 10 = 10000\ T$

$w = 10000\left[1 - \sqrt{1 - \frac{2 \times 5194.67 \times 1.5}{10000 \times 1.0}}\right]\frac{1.15}{5.1} = 183.10\ cm^2$ $\quad 3\,\phi\,25$

- armadura de cuelgue

$w = 1775.94 \times 1.5 \frac{1.15}{5.1} = 600.69 \text{ cm}^2$ 12 Ø 25

$Q = \frac{1775.94}{2} = 887.97 \text{ T}$

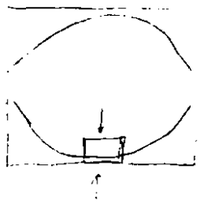
$V_{cu} = 0.5\sqrt{\frac{25}{1.5}} \; 10 \times 0.6 \times 10 = 387.3 \text{ T}$

$w_c = \frac{887.97 \times 1.5 - 387.3}{0.9 \times 10} \frac{1}{4.2} = 24.99 \text{ cm}^2/\text{m}$ 8 Ø 20 p.m.

- alternativa por cruces

$P_w = \frac{5194.62}{\frac{10}{6} + 4.5} = 847.38 \text{ T}$ $P_d = \frac{847.38}{0.85} = 997.04 \text{ T}$

6 Ød Ø 20"



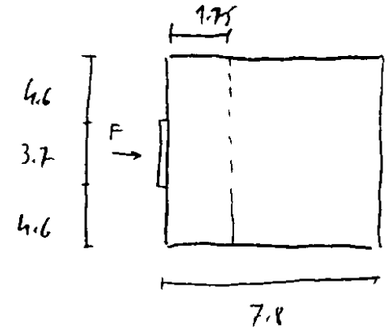
- Refuerzo armadura muro pórtico

$M = 887.97 \times 6.5 = 5771.81 \text{ mT}$

$U_c = \frac{25 \times 10}{1.5} \times 4 \times 13 = 30333 \text{ T}$

$w = 30333 \left[1 - \sqrt{1 - \frac{2 \times 5771.81 \times 1.5}{30333 \times 13}}\right] \frac{1.15}{5.1} = 151.84 \text{ cm}^2$ 31 Ø 25

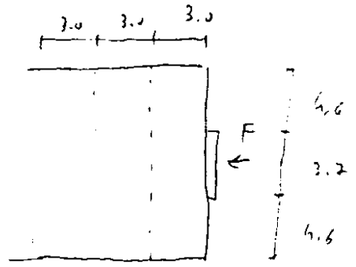
Refuerzo armadura dovelo 14B



F = 1775.94 T

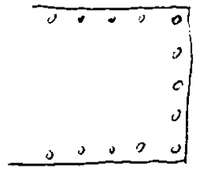
$T = 1775.94 \frac{2.3 + 1.85}{7.6} \frac{1}{2} = 484.83 \text{ T}$

$w = 484.83 \times 1.5 \frac{1.15}{5.1} = 163.99 \text{ cm}^2$ → 21 Ø 32



$T = 1775.94 \frac{3.1 + 1.85}{9} \frac{1}{2} = 438.33 \text{ T}$

$w = 438.38 \times 1.5 \frac{1.15}{5.1} = 165.19 \text{ cm}^2$ → 21 Ø 32



4.3.7 Cálculo de los elementos auxiliares de empuje

4.3.7 CÁLCULO DE LOS ELEMENTOS AUXILIARES DE EMPUJE

ÍNDICE

GATOS DE EMPUJE
NARIZ DE LANZAMIENTO

PRETENSIONES DE LOS CABLES DE PRESF

Steps :

. Vans de acceso $g = 22.18\ T/m$

. Vans principales. $e = 0.50$ $g_1 = 45.11\ T/m$

$e = 0.60$ $g_2 = 49.38$

ETAPA DE 1 $i = 0.67\% = 0.0067$

. Doble pase: 15.00 m.

. Longitud vans acceso: $162 - 15 = 147$ m.

. Vans principal $e = 0.50$ $162 - 36 = 126$

$e = 0.60$ 36 m.

Peso sin lechada : $147 \cdot 22.18 + 126 \cdot 45.11 + 36\ 49.38 = 10726\ T$

Peso en pase : $15 \cdot 22.18 = 333\ T$

$F_{H,rec} = 10726\ (0.03 + 0.0067) + 333\ (0.50 + 0.0067) = 616\ T$

$F_V = \left(9 + \frac{8.43}{2}\right) \cdot 22.18 = 293.74$ → no hay reacc vertical

ETAPA DE 2

. Doble pase : 15.00 m

. Longitud : vans principal : $e = 0.50$ $207 - 54 = 153$ m

$e = 0.60$ 54 m.

- Peso sin lechada : $153.45.11 + 54.49.38 = 9571\ T$
- Peso en pase $15.45.11 = 677.T$

$F_{H,rec} = 9571\ (0.035 - 0.0067) + 677\ (0.50 - 0.0067) = 605.T$

$F_V = \left(\frac{42}{2} + \frac{8.43}{2}\right) \cdot 45.11 = 1138.T$

$\left(\frac{F_H}{F_V}\right)_{rec} \equiv \mu_{rec} = 0.53$

Puente sobre el Ebro (E1 a E2)

LISTADO DE REACCIONES

APOYO PAR- 1
=====

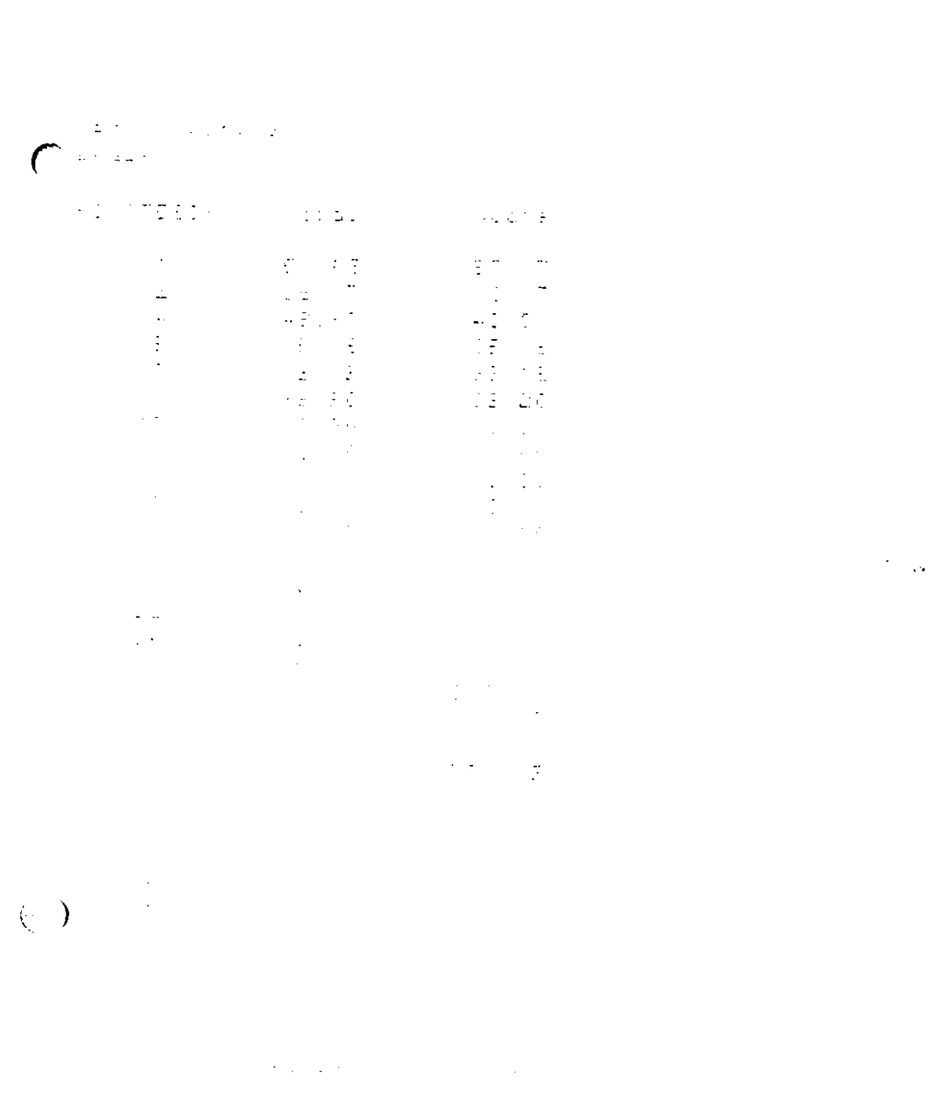
HIPOTESIS	Nizda	Ndcha	
4	0.00	0.00	
13	0.00	210.38	
16	0.00	0.00	
17	0.00	0.00	
20	0.00	538.75	*
24	0.00	0.00	

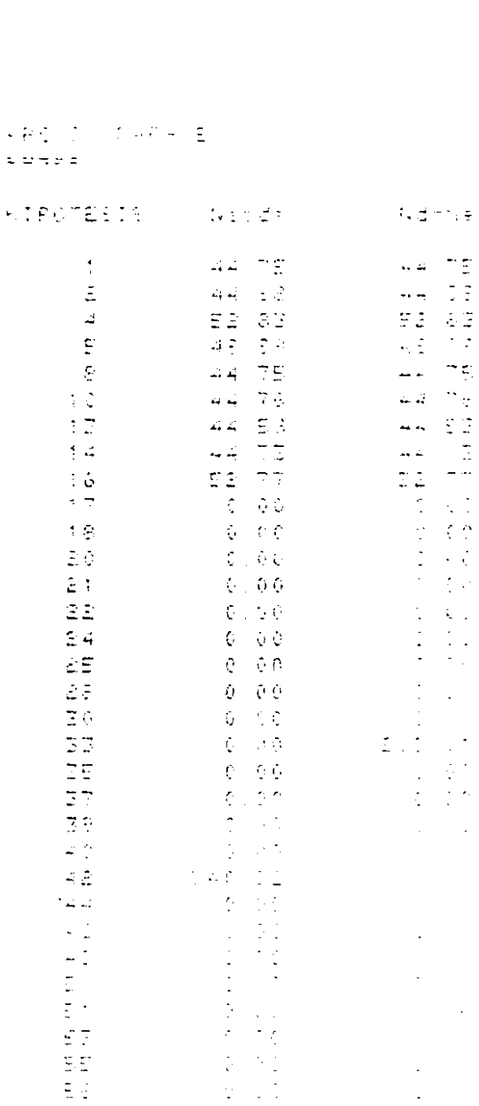
APOYO PAR- 3

HIPOTESIS	Nizda	Nacha	
4	0.00	0.00	
12	0.00	0.00	
16	0.00	0.00	
17	95.01	0.00	
20	0.00	0.00	*
24	200.29	0.00	*
28	0.00	0.00	

APOYO PAR- 3

HIPOTESIS	Nizda	Nacha	
4	49.03	49.03	
12	0.00	0.00	
16	0.00	0.00	
17	0.00	0.00	
20	0.00	0.00	
24	0.00	0.00	
28	0.00	0.00	
30	0.00	535.63	*
33	0.00	0.00	
35	0.00	0.00	
37	0.00	0.00	
39	0.00	0.00	
40	0.00	0.00	
42	0.00	0.00	
44	897.74	0.00	*
46	0.00	0.00	
48	0.00	0.00	
50	0.00	0.00	
51	0.00	0.00	
53	0.00	0.00	
55	0.00	0.00	





APOYO PAR- 6

HIPOTESIS	Nizda	Ncha	
1	45.63	45.63	
2	46.06	46.06	
3	48.83	48.83	
4	46.82	46.82	
5	44.61	44.61	
6	44.62	44.62	
7	44.44	44.44	
8	44.60	44.60	
9	48.75	48.75	
10	48.75	48.75	
11	48.89	48.89	
12	44.45	44.45	
13	44.62	44.62	
14	0.00	0.00	
15	0.00	0.00	
16	0.00	0.00	
17	0.00	0.00	
18	0.00	0.00	
19	0.00	0.00	
20	0.00	0.00	
21	0.00	0.00	
22	0.00	0.00	
23	0.00	0.00	
24	0.00	0.00	
25	0.00	0.00	
26	0.00	0.00	
27	0.00	0.00	
28	0.00	0.00	
29	0.00	0.00	
30	0.00	0.00	
31	0.00	0.00	
32	0.00	0.00	
33	0.00	0.00	
34	0.00	0.00	
35	0.00	0.00	
36	0.00	0.00	
37	0.00	0.00	
38	0.00	0.00	
39	0.00	0.00	
40	0.00	0.00	
41	0.00	0.00	
42	0.00	0.00	
43	0.00	0.00	
44	0.00	0.00	
45	0.00	0.00	
46	0.00	0.00	
47	0.00	0.00	
48	0.00	0.00	
49	0.00	0.00	
50	0.00	0.00	
51	708.72	0.00	*
52	0.00	864.81	*
53	0.00	0.00	
54	0.00	0.00	

APOYO PAR- 7

HIPOTESIS	Nizda	Ncha	
1	66.34	66.34	
2	67.46	67.46	
3	85.71	85.71	
4	73.39	73.39	
5	75.09	75.09	
6	77.49	77.49	
7	85.31	85.31	
8	66.81	66.81	
9	80.27	80.27	
10	66.82	66.82	
11	79.29	79.29	
12	80.05	80.05	
13	66.61	66.61	
14	66.80	66.80	
15	82.66	82.66	
16	73.07	73.07	
17	73.08	73.08	
18	75.25	75.25	
19	86.34	86.34	
20	66.61	66.61	
21	66.83	66.83	
22	66.83	66.83	
23	80.21	80.21	
24	66.77	66.77	
25	49.07	49.07	
26	44.62	44.62	
27	0.00	0.00	
28	0.00	0.00	
29	0.00	0.00	
30	0.00	0.00	
31	0.00	0.00	
32	0.00	0.00	
33	0.00	0.00	
34	0.00	0.00	
35	0.00	0.00	
36	0.00	0.00	
37	0.00	0.00	
38	0.00	0.00	
39	0.00	0.00	
40	0.00	0.00	
41	0.00	0.00	
42	0.00	0.00	
43	0.00	0.00	
44	0.00	0.00	
45	0.00	0.00	
46	0.00	0.00	
47	0.00	0.00	
48	0.00	0.00	
49	0.00	0.00	
50	0.00	0.00	
51	418.44	0.00	*
52	0.00	555.76	*

53	0.00	0.00
54	0.00	0.00
55	0.00	0.00
56	0.00	0.00

APOYO PAR- 2

HIPOTESIS	Nizda	Ndcha
1	132.64	132.64
2	136.91	136.91
3	138.29	138.29
4	143.89	143.89
5	149.43	149.43
6	148.86	148.86
7	150.43	150.43
8	141.31	141.31
9	135.69	135.69
10	134.56	134.56
11	135.34	135.34
12	135.50	135.50
13	134.28	134.28
14	134.58	134.58
15	135.47	135.47
16	140.67	140.67
17	140.69	140.69
18	149.54	149.54
19	150.64	150.64
20	141.04	141.04
21	134.74	134.74
22	134.74	134.74
23	135.53	135.53
24	134.54	134.54
25	123.18	123.18
26	97.77	97.77
27	97.77	97.77
28	79.92	79.92
29	68.29	68.29
30	64.96	64.96
31	66.29	66.29
32	0.00	0.00
33	0.00	0.00
34	0.00	0.00
35	0.00	0.00
36	0.00	0.00
37	0.00	0.00
38	0.00	0.00
39	0.00	0.00
40	0.00	0.00
41	0.00	0.00
42	0.00	0.00
43	0.00	0.00
44	0.00	0.00
45	0.00	0.00
46	0.00	0.00
47	0.00	0.00
48	0.00	0.00
49	0.00	0.00
50	0.00	0.00
51	0.00	0.00
52	0.00	0.00

53	0.00	0.00
54	0.00	0.00
55	0.00	0.00
56	0.00	0.00
57	0.00	0.00

APOYO PAR- 9
=====

HIPOTESIS	Nizda	Ndcha	
1	190.91	190.91	
2	204.37	204.37	
3	206.99	206.99	
4	206.95	206.95	
5	210.02	210.02	
6	215.79	215.79	
7	222.39	222.39	
8	224.81	224.81	*
9	216.77	216.77	
10	204.51	204.51	
11	201.80	201.80	
12	202.44	202.44	
13	201.41	201.41	
14	201.75	201.75	
15	202.60	202.60	
16	201.74	201.74	
17	201.82	201.82	
18	208.61	208.61	
19	221.72	221.72	
20	224.57	224.57	
21	215.82	215.82	
22	215.93	215.83	
23	205.50	205.50	
24	201.70	201.70	
25	202.00	202.00	
26	193.19	193.19	
27	193.19	193.19	
28	154.18	54.18	
29	123.89	123.89	
30	104.69	104.69	
31	97.69	97.69	
32	97.69	97.69	
33	97.56	97.56	
34	99.04	99.04	
35	98.11	98.11	
36	98.42	98.42	
37	99.22	99.22	
38	100.21	100.21	
39	99.09	99.09	
40	0.00	0.00	
41	0.00	0.00	
42	0.00	0.00	
43	0.00	0.00	
44	0.00	0.00	
45	0.00	0.00	
46	0.00	0.00	
47	0.00	0.00	
48	0.00	0.00	
49	0.00	0.00	
50	0.00	0.00	
51	0.00	0.00	
52	0.00	0.00	

53	0.00	0.00
54	0.00	0.00
55	0.00	0.00
56	0.00	0.00
57	0.00	0.00
58	0.00	0.00

APOYO PAR-10
=====

HIPOTESIS	Nizda	Ndcha
1	170.37	170.37
2	197.71	197.71
3	202.59	202.59
4	203.42	203.42
5	196.33	196.33
6	187.51	197.51
7	201.95	201.95
8	213.25	213.25
9	220.95	220.95
10	215.25	215.25
11	201.84	201.84
12	203.24	203.24
13	196.13	196.13
14	196.31	196.31
15	196.88	196.88
16	196.34	196.34
17	196.49	196.49
18	196.58	196.58
19	199.88	199.88
20	210.49	210.49
21	219.65	219.65
22	219.67	219.67
23	216.08	216.08
24	203.07	203.07
25	196.48	196.48
26	197.04	197.04
27	197.04	197.04
28	194.14	194.14
29	170.03	170.03
30	130.52	130.52
31	107.10	107.10
32	107.10	107.10
33	95.12	95.12
34	93.98	93.98
35	95.44	95.44
36	95.80	95.80
37	95.35	95.35
38	96.28	96.28
39	97.40	97.40
40	97.40	97.40
41	97.20	97.20
42	96.28	96.28
43	96.78	96.78
44	97.69	97.69
45	97.36	97.36
46	96.37	96.37
47	96.84	96.84
48	97.72	97.72
49	97.38	97.38
50	96.38	96.38
51	0.00	0.00
52	0.00	0.00

1	46.0	46.0
2	44.1	44.1
3	43.7	43.7
4	43.6	43.6
5	43.2	43.2
6	43.0	43.0
7	43.0	43.0
8	42.6	42.6
9	42.5	42.5
10	42.3	42.3
11	42.3	42.3
12	42.1	42.1
13	42.0	42.0
14	41.9	41.9
15	41.8	41.8
16	41.7	41.7
17	41.6	41.6
18	41.5	41.5
19	41.4	41.4
20	41.3	41.3
21	41.2	41.2
22	41.1	41.1
23	41.0	41.0
24	40.9	40.9
25	40.8	40.8
26	40.7	40.7
27	40.6	40.6
28	40.5	40.5
29	40.4	40.4
30	40.3	40.3
31	40.2	40.2
32	40.1	40.1
33	40.0	40.0
34	39.9	39.9
35	39.8	39.8
36	39.7	39.7
37	39.6	39.6
38	39.5	39.5
39	39.4	39.4
40	39.3	39.3
41	39.2	39.2
42	39.1	39.1
43	39.0	39.0
44	38.9	38.9
45	38.8	38.8
46	38.7	38.7
47	38.6	38.6
48	38.5	38.5
49	38.4	38.4
50	38.3	38.3
51	38.2	38.2
52	38.1	38.1

53	143.00	143.00
54	143.53	143.53
55	144.12	144.12
56	143.71	143.71
57	143.28	143.28
58	143.38	143.38
59	135.88	135.88
60	147.86	147.86
61	130.86	130.86
62	82.08	82.08

APOYO PIL- 1
=====

HIPOTESIS	Nizda	Ncha	
2	52.92	52.92	
3	167.05	167.05	
4	321.38	321.38	
5	505.87	505.87	
6	726.65	726.65	*
7	532.85	532.85	
8	533.47	533.47	
9	516.37	516.37	
10	483.04	483.04	
11	427.00	427.00	
12	494.93	494.93	
13	512.60	512.60	
14	524.57	524.57	
15	522.68	522.68	
16	509.30	509.30	
17	516.29	516.29	
18	505.48	505.48	
19	494.96	494.96	
20	487.11	487.11	
21	483.55	483.55	
22	484.27	484.27	
23	486.03	486.03	
24	493.09	493.09	
25	505.47	505.47	
26	517.58	517.58	
27	517.65	517.65	
28	521.51	521.51	
29	516.72	516.72	
30	506.27	506.27	
31	494.40	494.40	
32	494.40	494.40	
33	473.23	473.23	
34	437.87	437.87	
35	386.02	386.02	
36	330.79	330.79	
37	283.06	283.06	
38	251.33	251.33	
39	237.01	237.01	
40	237.02	237.02	
41	233.23	233.23	
42	234.32	234.32	
43	236.71	236.71	
44	238.03	238.03	
45	238.66	238.66	
46	238.78	238.78	
47	239.21	239.21	
48	239.42	239.42	
49	239.46	239.46	
50	239.26	239.26	
51	239.26	239.26	
52	239.47	239.47	
53	239.57	239.57	

54	239.54	239.54
55	239.34	239.34
56	239.54	239.54
57	239.73	239.73
58	239.47	239.47
59	235.10	235.10
60	241.68	241.68
61	243.77	243.77
62	247.17	247.17

APOYO PIL- 2

*****

HIPOTESIS	Nizda	Ndcha	
7	95.20	95.20	
8	220.79	220.79	
9	372.84	372.84	
10	550.97	550.97	
11	759.94	759.94	*
12	595.66	595.66	
13	601.54	601.54	
14	586.87	586.87	
15	556.17	556.17	
16	500.81	500.81	
17	569.71	569.71	
18	586.57	586.57	
19	594.94	594.94	
20	590.27	590.27	
21	575.87	575.87	
22	583.03	583.03	
23	572.13	572.13	
24	561.29	561.29	
25	553.47	553.47	
26	551.32	551.32	
27	552.06	552.06	
28	557.56	557.56	
29	567.79	567.79	
30	579.45	579.45	
31	588.03	588.03	
32	588.11	588.11	
33	590.42	590.42	
34	585.71	585.71	
35	574.76	574.76	
36	554.05	554.05	
37	521.61	521.61	
38	476.07	476.07	
39	419.06	419.06	
40	419.10	419.10	
41	362.37	362.37	
42	315.09	315.09	
43	283.70	283.70	
44	269.58	269.58	
45	266.00	266.00	
46	267.43	267.43	
47	269.69	269.69	
48	270.94	270.94	
49	271.63	271.63	
50	272.03	272.03	
51	272.02	272.02	
52	272.26	272.26	
53	272.37	272.37	
54	272.45	272.45	
55	272.51	272.51	
56	272.54	272.54	
57	272.54	272.54	
58	272.51	272.51	

59	271.71	271.71
60	272.99	272.99
61	273.37	273.37
62	274.03	274.03

APOYO PIL- 3

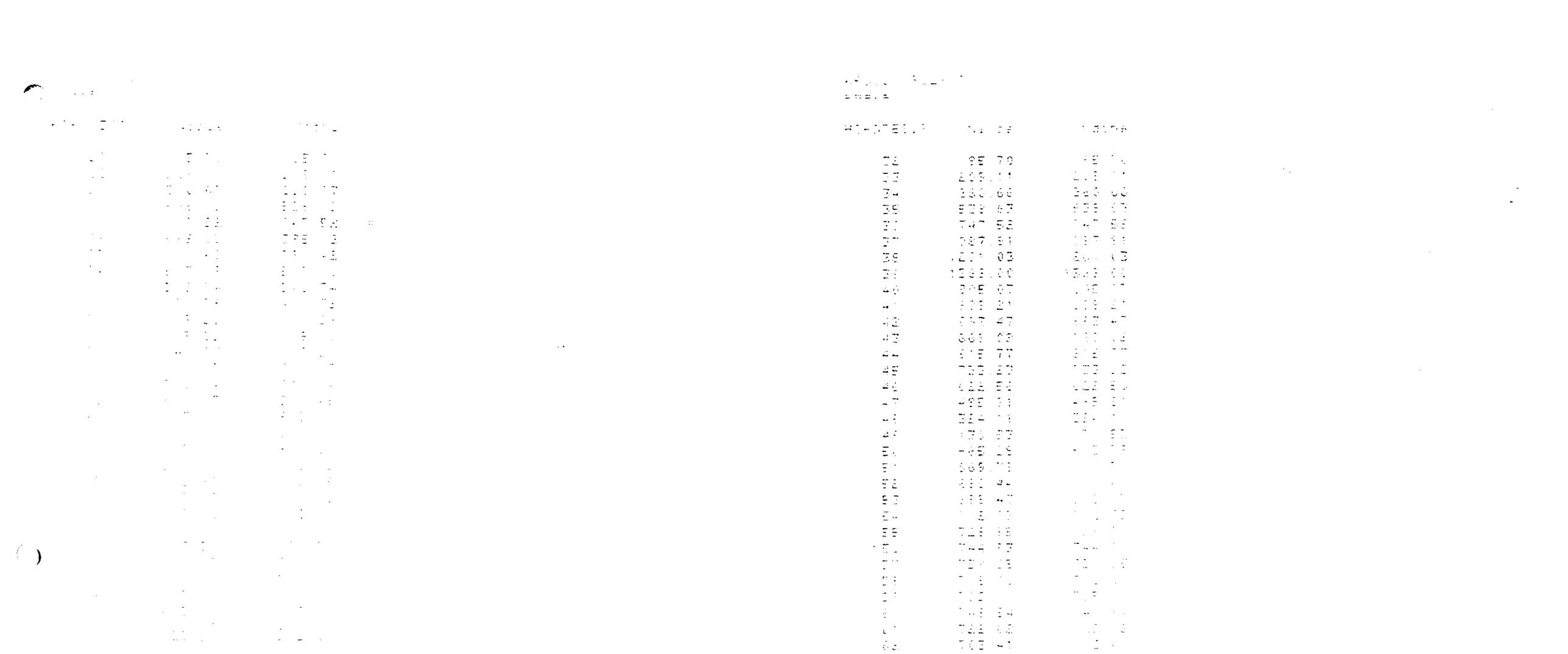
HIPOTESIS	Nizda	Ndcha	
12	86.77	86.77	
13	210.38	210.38	
14	361.92	361.92	
15	539.85	539.85	
16	748.72	748.72	*
17	586.05	586.05	
18	592.40	592.40	
19	578.17	578.17	
20	547.72	547.72	
21	492.51	492.51	
22	561.32	561.32	
23	578.15	578.15	
24	586.44	586.44	
25	581.77	581.77	
26	567.26	567.26	
27	574.41	574.41	
28	563.14	563.14	
29	552.05	552.05	
30	544.29	544.29	
31	542.50	542.50	
32	543.24	543.24	
33	549.13	549.13	
34	559.55	559.55	
35	571.41	571.41	
36	580.99	580.99	
37	584.43	584.43	
38	580.65	580.65	
39	570.12	570.12	
40	570.52	570.52	
41	549.99	549.99	
42	517.53	517.53	
43	471.95	471.95	
44	414.95	414.95	
45	358.20	358.20	
46	310.90	310.90	
47	279.52	279.52	
48	265.44	265.44	
49	261.87	261.87	
50	263.31	263.31	
51	263.22	263.22	
52	265.48	265.48	
53	266.75	266.75	
54	267.43	267.43	
55	267.80	267.80	
56	268.05	268.05	
57	268.18	268.18	
58	268.24	268.24	
59	268.19	268.19	
60	268.35	268.35	
61	268.40	268.40	
62	268.47	268.47	

APOYO PIL- 4
=====

HIPOTESIS	Nizda	Ncha	
17	85.80	85.80	
18	209.23	209.23	
19	360.79	360.79	
20	538.75	538.75	
21	747.65	747.65	*
22	585.14	585.14	
23	591.53	591.53	
24	577.29	577.29	
25	546.84	546.84	
26	491.62	491.62	
27	560.42	560.42	
28	577.21	577.21	
29	585.49	585.49	
30	580.91	580.91	
31	566.34	566.34	
32	573.50	573.50	
33	568.27	568.27	
34	551.19	551.19	
35	542.46	542.46	
36	541.77	541.77	
37	546.71	546.71	
38	555.93	555.93	
39	570.31	570.31	
40	579.28	579.28	
41	577.66	577.66	
42	567.64	567.64	
43	557.03	557.03	
44	547.71	547.71	
45	549.34	549.34	
46	570.87	570.87	
47	471.43	471.43	
48	-12.66	-12.66	
49	358.04	358.04	
50	316.99	316.99	
51	314.16	314.16	
52	278.78	278.78	
53	264.67	264.67	
54	261.67	261.67	
55	262.46	262.46	
56	264.70	264.70	
57	265.93	265.93	
58	266.58	266.58	
59	266.91	266.91	
60	267.14	267.14	
61	267.25	267.25	
62	267.29	267.29	

APOYO PIL- 5
=====

HIPOTESIS	Nizda	Ncha	
22	85.71	85.71	
23	209.12	209.12	
24	360.68	360.68	
25	538.64	538.64	
26	747.53	747.53	*
27	585.04	585.04	
28	591.43	591.43	
29	577.19	577.19	
30	546.75	546.75	
31	491.52	491.52	
32	560.33	560.33	
33	577.12	577.12	
34	585.39	585.39	
35	580.72	580.72	
36	566.26	566.26	
37	544.74	544.74	
38	521.02	521.02	
39	498.43	498.43	
40	536.15	536.15	
41	536.80	536.80	
42	543.19	543.19	
43	554.01	554.01	
44	566.51	566.51	
45	576.93	576.93	
46	581.48	581.48	
47	579.14	579.14	
48	570.43	570.43	
49	551.96	551.96	
50	521.73	521.73	
51	513.90	513.90	
52	468.29	468.29	
53	411.29	411.29	
54	354.46	354.46	
55	307.00	307.00	
56	275.34	275.34	
57	260.93	260.93	
58	257.00	257.00	
59	256.09	256.09	
60	260.08	260.08	
61	261.08	261.08	
62	261.43	261.43	



LISTADO DE REACCIONES

CASO: CASO 1
TABLA

HIPOTESIS	Nizda	Ncha
1	0.00	0.00
2	0.00	0.00
7	0.00	1119.48
10	0.00	0.00
18	0.00	0.00
21	0.00	0.00
25	0.00	0.00
28	0.00	0.00

APOYO: APOY. 1
=====

HIPOTESIS	Nizda	Ncha
1	0.00	0.00
2	0.00	0.00
7	0.00	1119.48
10	0.00	0.00
18	0.00	0.00
21	0.00	0.00
25	0.00	0.00
28	0.00	0.00

APOYO PAR= 2
=====

HIPOTESIS	Nizda	Nacha
1	0.00	0.00
2	0.00	0.00
3	0.00	0.00
5	0.00	0.00
7	0.00	1034.87
9	0.00	0.00
10	0.00	0.00
11	0.00	0.00

APOYO PAR= 4
=====

HIPOTESIS	Nizda	Nacha
1	0.00	0.00
2	0.00	0.00
3	0.00	0.00
5	0.00	715.02
7	0.00	0.00
9	0.00	0.00
10	0.00	0.00
11	0.00	0.00
14	0.00	0.00
16	0.00	0.00
18	0.00	0.00
19	0.00	0.00
21	0.00	0.00
22	0.00	0.00
25	0.00	0.00
26	0.00	0.00
29	1014.04	0.00

APOYO PAR- 5

HIPOTESIS	Nizda	Ndcha	
1	0.00	0.00	
2	270.39	0.00	*
3	0.00	401.58	
5	0.00	0.00	
7	0.00	0.00	
8	0.00	0.00	
10	0.00	0.00	
11	0.00	0.00	
14	0.00	0.00	
16	0.00	662.75	*
18	0.00	0.00	
19	0.00	0.00	
21	0.00	0.00	
22	0.00	0.00	
25	0.00	0.00	
26	0.00	0.00	
28	0.00	0.00	
29	0.00	0.00	

APOYO PAR- 6

HIPOTESIS	Nizda	Ndcha	
1	0.00	0.00	
2	0.00	0.00	
3	0.00	0.00	
5	0.00	0.00	
7	0.00	0.00	
8	0.00	0.00	
10	0.00	0.00	
11	0.00	0.00	
14	0.00	554.23	*
16	0.00	0.00	
18	0.00	0.00	
19	0.00	0.00	
21	0.00	0.00	
22	0.00	0.00	
25	0.00	0.00	
26	674.52	0.00	*
28	0.00	0.00	
29	0.00	0.00	

APOYO PAR- 9

HIPOTESIS	Nizda	Ndcha	
1	26.75	26.75	
2	168.91	168.91	
3	174.33	174.33	
4	168.50	168.50	
5	157.49	157.49	
6	160.94	160.94	
7	160.94	160.94	
8	166.13	166.13	
9	173.30	173.30	
10	179.50	179.50	
11	194.91	194.91	
12	215.25	215.25	*
13	0.00	0.00	
14	0.00	0.00	
15	0.00	0.00	
16	0.00	0.00	
17	0.00	0.00	
18	0.00	0.00	
19	0.00	0.00	
20	0.00	0.00	
21	0.00	0.00	
22	0.00	0.00	
23	0.00	0.00	
24	0.00	0.00	
25	0.00	0.00	
26	0.00	0.00	
27	0.00	0.00	
28	0.00	0.00	
29	0.00	0.00	
30	0.00	0.00	
31	0.00	0.00	

APOYO PAR-10

HIPOTESIS	Nizda	Ndcha	
1	-205.56	-205.56	
2	135.06	135.06	
3	154.53	154.53	
4	165.05	165.05	
5	160.67	160.67	
6	154.85	154.85	
7	155.47	155.47	
8	166.67	166.67	
9	181.97	181.97	
10	199.39	199.39	
11	220.77	220.77	
12	247.88	247.88	*
13	165.89	165.89	
14	176.94	176.94	
15	186.57	186.57	
16	179.08	179.08	
17	165.56	165.56	
18	155.46	155.46	
19	152.37	152.37	
20	150.67	150.67	
21	146.09	146.09	
22	143.63	143.63	
23	145.33	145.33	
24	0.00	0.00	
25	0.00	0.00	
26	0.00	0.00	
27	0.00	0.00	
28	0.00	0.00	
29	0.00	0.00	
30	0.00	0.00	
31	0.00	0.00	
32	0.00	0.00	
33	0.00	0.00	

APOYO EST- 1

HIPOTESIS	Nizda	Ndcha	
1	1707.60	1707.60	*
2	794.48	794.48	
3	787.32	787.32	
4	783.12	783.12	
5	760.02	760.02	
6	710.02	710.02	
7	620.72	620.72	
8	499.10	499.10	
9	348.05	348.05	
10	166.94	166.94	
11	-41.76	-41.76	
12	-278.42	-278.42	
13	550.68	550.68	
14	551.24	551.24	
15	559.34	559.34	
16	578.58	578.58	
17	603.90	603.90	
18	623.13	623.13	
19	642.50	642.50	
20	665.80	665.80	
21	690.34	690.34	
22	721.26	721.26	
23	758.52	758.52	
24	612.04	612.04	
25	605.37	605.37	
26	609.94	609.94	
27	623.52	623.52	
28	632.93	632.93	
29	634.06	634.06	
30	629.18	629.18	
31	625.44	625.44	
32	633.39	633.39	
33	617.85	617.85	
34	377.55	377.55	
35	281.24	281.24	

APOYO PIL- 1

HIPOTESIS	Nizda	Ndcha	
2	270.39	270.39	
3	401.58	401.58	
4	548.05	548.05	
5	715.03	715.03	
6	905.69	905.69	
7	1119.48	1119.48	
8	1356.68	1356.69	
9	1616.34	1616.34	
10	1898.00	1898.00	
11	2201.78	2201.78	
12	2527.21	2527.21	*
13	1439.14	1439.14	
14	1440.11	1440.11	
15	1430.22	1430.22	
16	1400.21	1400.21	
17	1350.83	1350.83	
18	1281.95	1281.95	
19	1193.74	1193.74	
20	1085.07	1085.07	
21	955.02	955.02	
22	804.23	804.23	
23	632.05	632.05	
24	1220.28	1220.28	
25	1222.79	1222.79	
26	1222.16	1222.16	
27	1223.84	1223.84	
28	1230.14	1230.14	
29	1242.38	1242.38	
30	1259.82	1259.82	
31	1281.89	1281.89	
32	1310.34	1310.34	
33	1340.80	1340.80	
34	1405.08	1405.08	
35	1424.94	1424.94	

APOYO PIL- 2
=====

HIPOTESIS	Nizda	Ndcha	
13	420.58	420.58	
14	554.23	554.23	
15	700.44	700.44	
16	862.75	862.75	
17	1041.57	1041.57	
18	1236.83	1236.83	
19	1448.57	1448.57	
20	1676.91	1676.91	
21	1921.93	1921.93	
22	2183.60	2183.60	
23	2462.01	2462.01	*
24	1595.72	1595.72	
25	1600.32	1600.32	
26	1593.93	1593.93	
27	1569.54	1569.54	
28	1525.46	1525.46	
29	1461.62	1461.62	
30	1378.20	1378.20	
31	1275.39	1275.39	
32	1153.11	1153.11	
33	1011.73	1011.73	
34	849.16	849.16	
35	732.14	732.14	

APOYO EST- 2
=====

HIPOTESIS	Nizda	Ndcha	
24	395.99	395.99	
25	528.89	528.89	
26	674.52	674.52	
27	836.02	836.02	
28	1014.04	1014.04	
29	1208.56	1208.56	
30	1419.56	1419.56	
31	1647.00	1647.00	
32	1890.87	1890.87	
33	2151.13	2151.13	
34	2428.04	2428.04	
35	2621.50	2621.50	*

Nariz de lanzamiento

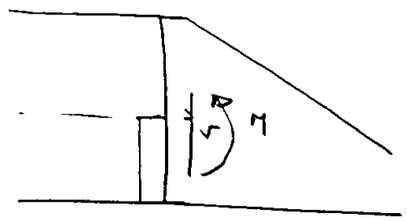
CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

PROYECTO _____ HOJA ____ DE ____
FECHA _____

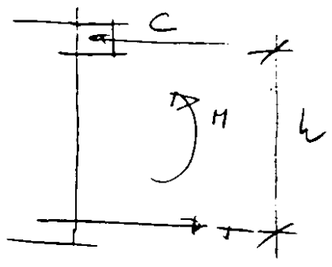
COMPROBACIÓN DE LA MURO PANTALLA

1. Empuje reales

Hipótesis	V	M
Max.	800	6536
Vmax	1060.	2024
Mmin.	-48	-193.



2. Comprobación a flexión



$T^{+} = \frac{6.536}{8.80} = 743.T$

$T_u^{+} = 743.1.5 = 1115\,T$

h = 8.80

1 ϕ32 st 110/12 P_u = 14 T P_d = 7.5 T

n. barras = $\frac{1115}{75}$ = 15. barras → dispone 8+8 barras ϕ32 st 110/12

$T_u^{-} = 1.5\,\frac{193}{8.8} = 33\,T$ ⇒ 4 barras ϕ32

3. Comprobación E. Ordinaria

$V_d = 1.5 \cdot 1060 = 1590\ T$ $\quad V = 1060$

- Cepeda illue para $\phi 22$ L=100 ifer = envolv.

$T_u = \frac{153}{140} = 10.92\ T$ $\quad n = \frac{1590}{10.92} = 145\ \phi 22$

- Cepeda illue para $\phi 25$ L=100

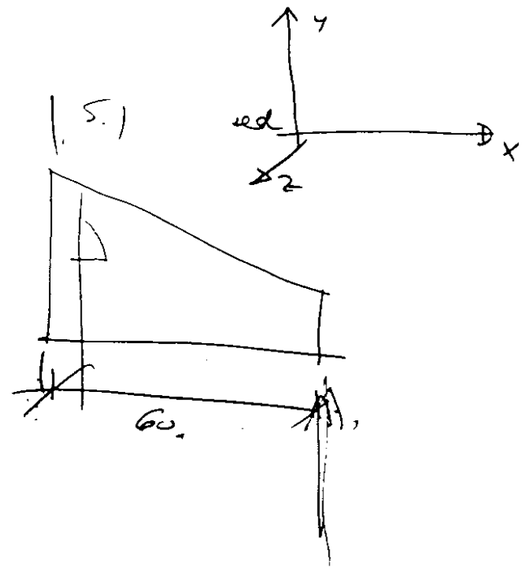
$P_u = \frac{18.2}{1.40} = 13.07$ $\quad n = \frac{1590}{13.07} = 122\ \phi 25$

procr Puente sobre el Ebro (E2 a E1)

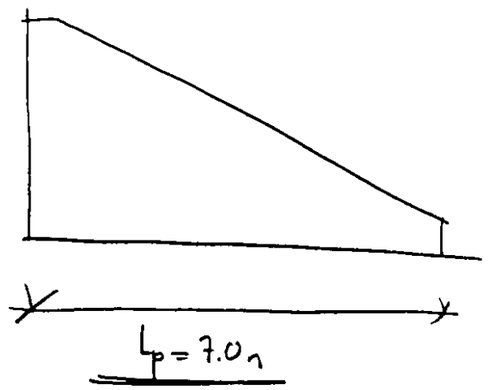
Esfuerzos de la barra 110 extremo dorsal

coeficiente del esfuerzo FY : 1.00
coeficiente del esfuerzo MY : 1.00
coeficiente del esfuerzo MZ : 1.00

HIP.	FY	MY	MZ
121 FUER X MAX (Envolv. de Proceso)	48.41	0.00	193.07
122 FUER X MIN (Envolv. de Proceso)	48.41	0.00	193.07
123 FUER Y MAX (Envolv. de Proceso)	48.42	0.00	193.07
124 FUER Y MIN (Envolv. de Proceso)	-1060.05	0.00	-2023.87
125 FUER Z MAX (Envolv. de Proceso)	48.41	0.00	193.07
126 FUER Z MIN (Envolv. de Proceso)	48.41	0.00	193.07
127 MOME X MAX (Envolv. de Proceso)	48.41	0.00	193.07
128 MOME X MIN (Envolv. de Proceso)	48.41	0.00	193.07
129 MOME Y MAX (Envolv. de Proceso)	48.41	0.00	193.07
130 MOME Y MIN (Envolv. de Proceso)	48.41	0.00	193.07
131 MOME Z MAX (Envolv. de Proceso)	48.41	0.00	193.12
132 MOME Z MIN (Envolv. de Proceso)	-792.75	0.00	-6536.21



RIGIDECES DE CÁLCULO DE LA MATRIZ DE CONDENSACIÓN



La rigidez media de cálculo

$\overline{I_{q.c}} = 2.80 \, m^4$

$\overline{E_q I_p} = 2.80 \cdot 21.10^6 = 58.8.10^6 \, T.m^2$

4.3.8 Prueba de carga

4.3.8 PRUEBA DE CARGA

ÍNDICE

PRUEBA DE CARGA ESTÁTICA

- **CAMIÓN TIPO**
- **DISPOSICIÓN DE CAMIONES Y PUNTOS DE CONTROL**
- **HIPÓTESIS DE CARGA**
- **DESPLAZAMIENTO EN PUNTOS DE CONTROL**

PRUEBA DE CARGA DINÁMICA

PRUEBA DE CARGA ESTATICA

PRUEBA DE CARGA ESTÁTICA

1 OBJETO

Conforme a los cálculos realizados en las Bases de cálculo, la prueba de carga estática para realizar antes de la inhabilitación de la vía y con camiones. Con posterioridad se definirá la prueba a realizar en la bibliografía específica y toda la vía inhabilitada

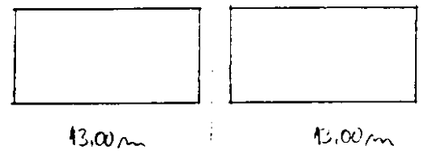
2 METODOLOGÍA

Se inhabilitará un camión tipo cargado con 40T y una disposición doble de los 2 ejes tipo en 4,50 y 6,50 m de ancho. Se definen una serie de hipótesis significativas que representen los efectos más desfavorables en los esfuerzos solicitantes en apoyos y centro de vanos.

Para cada una de estas hipótesis se determinen los desplazamientos verticales teóricos en los puntos de control.

DEFINICION DE LA SOBRECARGA

Camión tipo. longitud 12,00 m, Carga total 40 Tn.



Si se considera una separación máxima de 13,0 m y tres (3) camiones circulando transversalmente.

Vanos	de	18,00 m	1 x 3	= 3	camiones
"	"	24,00 m	2 x 3	= 6	"
"	"	42,00 m	3 x 3	= 9	"
"	"	60,00 m	4 x 3	= 12	"
"	"	120,00 m	9 x 3	= 27	"

VANO (en m)	Nº camiones	q (T/m)	Vanos
18,00	3	6,67	1
24,00	6	10,00	2, 3, 4, 5, 6, 7
42,00	9	8,57	8, 13
60,00	12	8,00	9, 11, 12,
120,00	27	9,00	10

HIPOTESIS DE CARGA

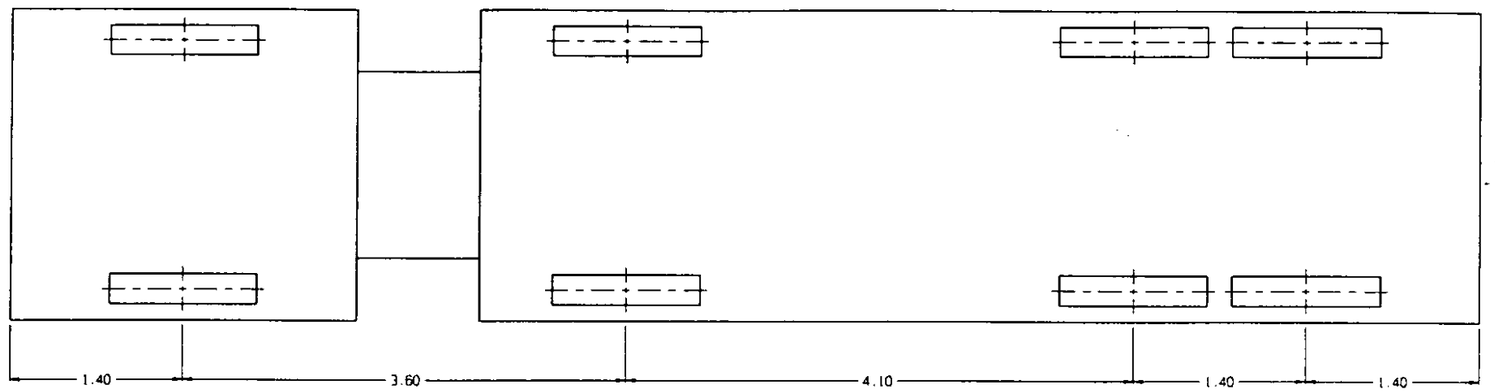
HIPOTESIS	VANOS	HIPOTESIS	VANOS
1	1,2	15	8,9
2	1,3	16	8,10
3	2,3	17	9,10
4	2,4	18	9,11
5	3,4	19	10,11
6	3,5	20	10,12
7	4,5	21	11,12
8	4,6	22	11,13
9	5,6	23	12,13
10	5,7		
11	6,7		
12	6,8		
13	7,8		
14	7,9		

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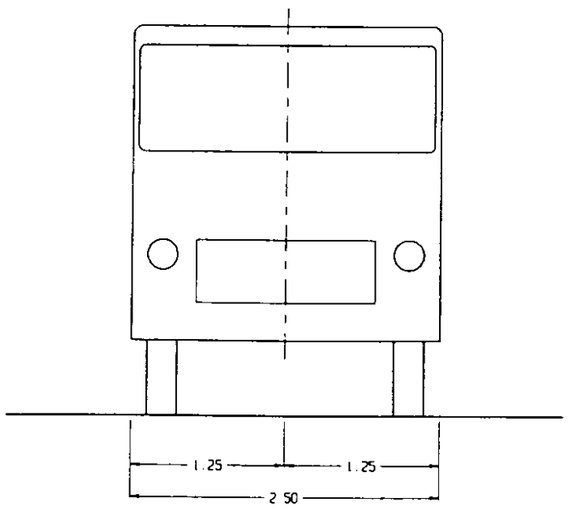
PROYECTO_____ HOJA____ DE ____
FECHA _____

VANO	BARRAS	VANO	BARRAS
1	1 a 9	8	82 a 102
2	10 a 21	9	103 a 132
3	22 a 33	10	133 a 192
4	34 a 45	11	193 a 222
5	46 a 57	12	223 a 252
6	58 a 69	13	253 a 273
7	70 a 81		

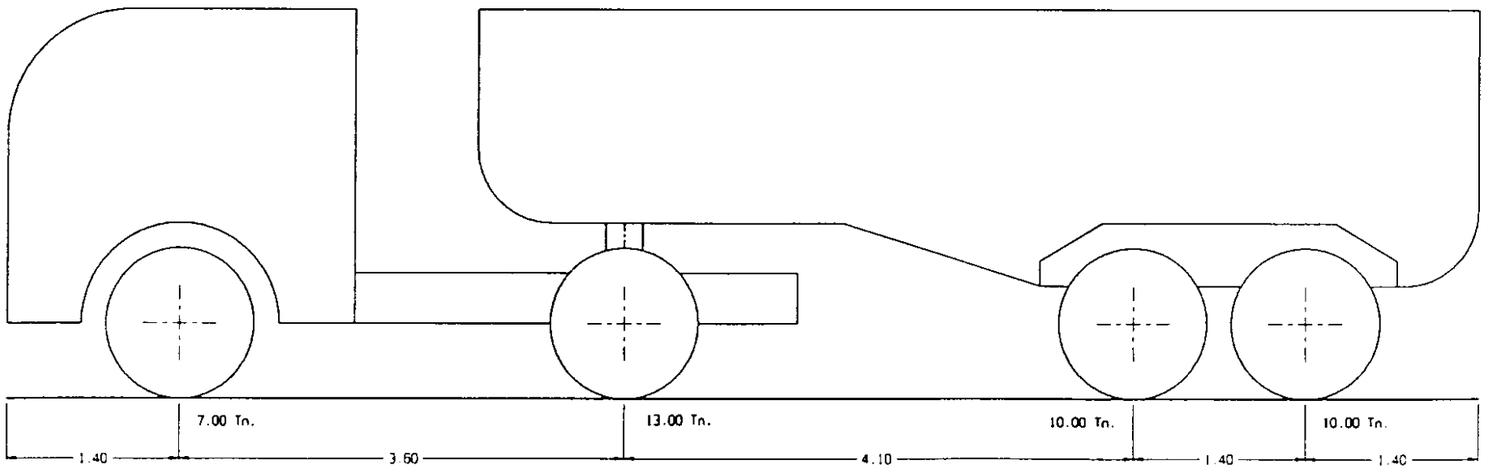
Camion tipo



PLANTA
ESCALA 1:25



ALZADO FRONTAL
ESCALA 1:25



ALZADO LATERAL
ESCALA 1:25

P-CARGA1

GIF Gestor de Infraestructuras Ferroviarias

TÍTULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO II b. PLATAFORMA

ESCALA NORMAL
1:25
Numérica | Gráfica
0 0.5 1 m.

FECHA
OCTUBRE 1998

TÍTULO DEL PLANO
ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA
TRANSPORTE TIPO BARRERA DE 40 Tn.

Nº DE PLANO
2.9.2.8
Hoja 1 de 8

Disposicion de camiones y puntos de control

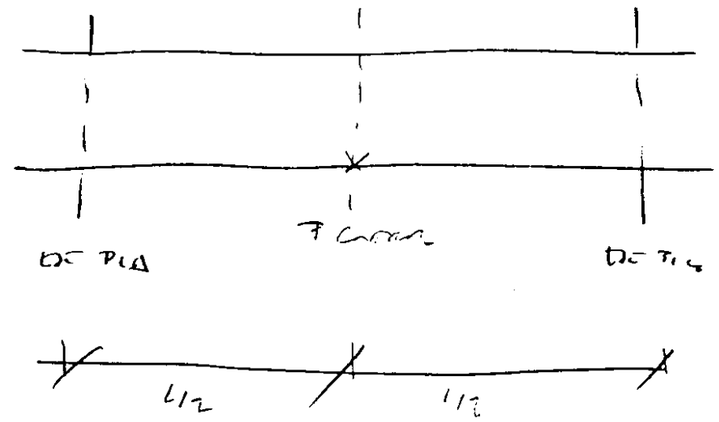
CARLOS FERNANDEZ CASADO, S.L.
OFICINA DE PROYECTOS

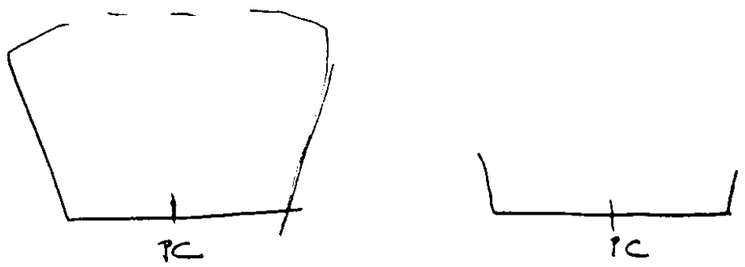
HOJA _____ DE _____

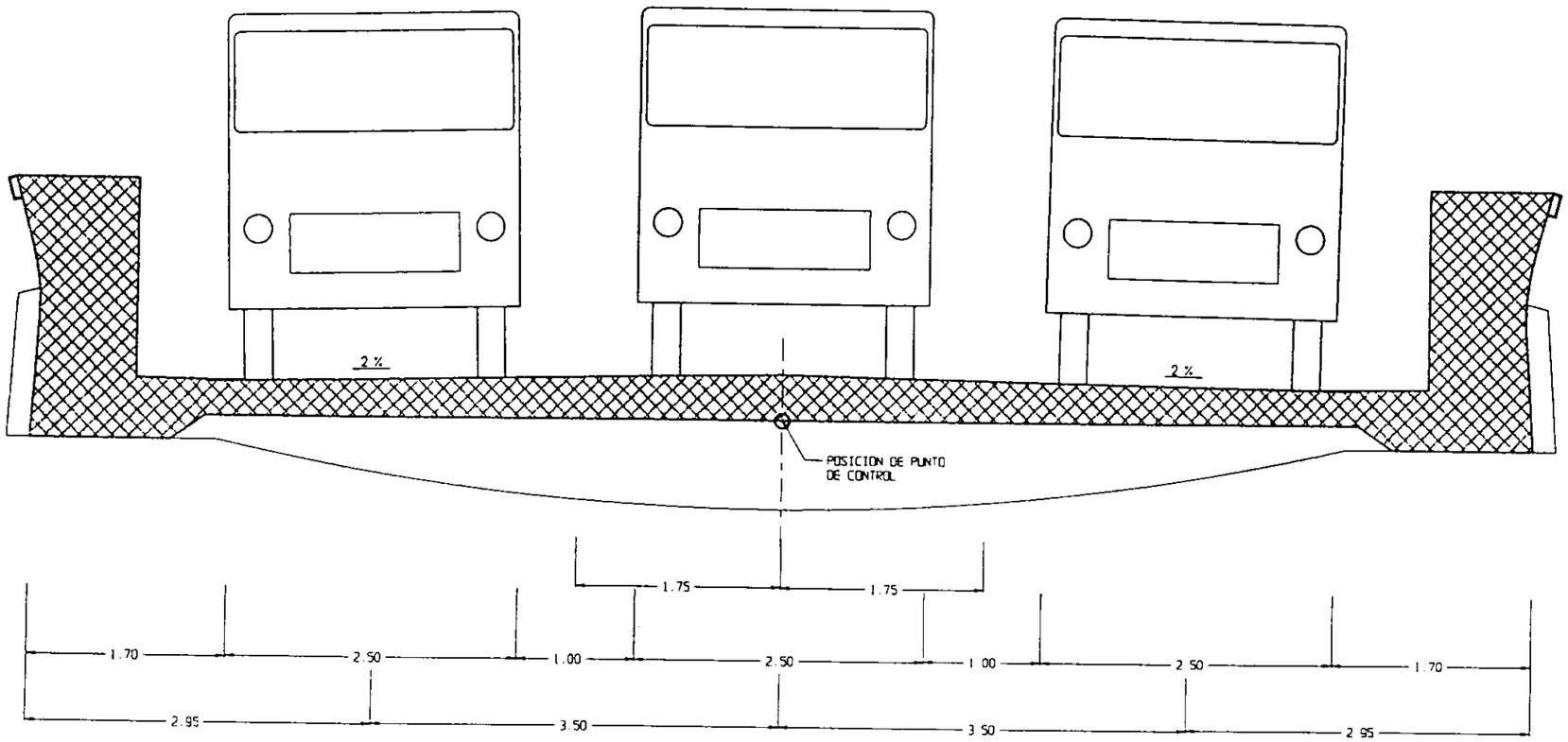
PROYECTO _____

FECHA _____

Posición de puntos de control







PUNTOS DE MEDICION DE FLECHA EN SECCION POR VANO (E-1 A PILA 7)

ESCALA 1:25

P-CARGA2

GIF Gestor de Infraestructuras Ferroviarias

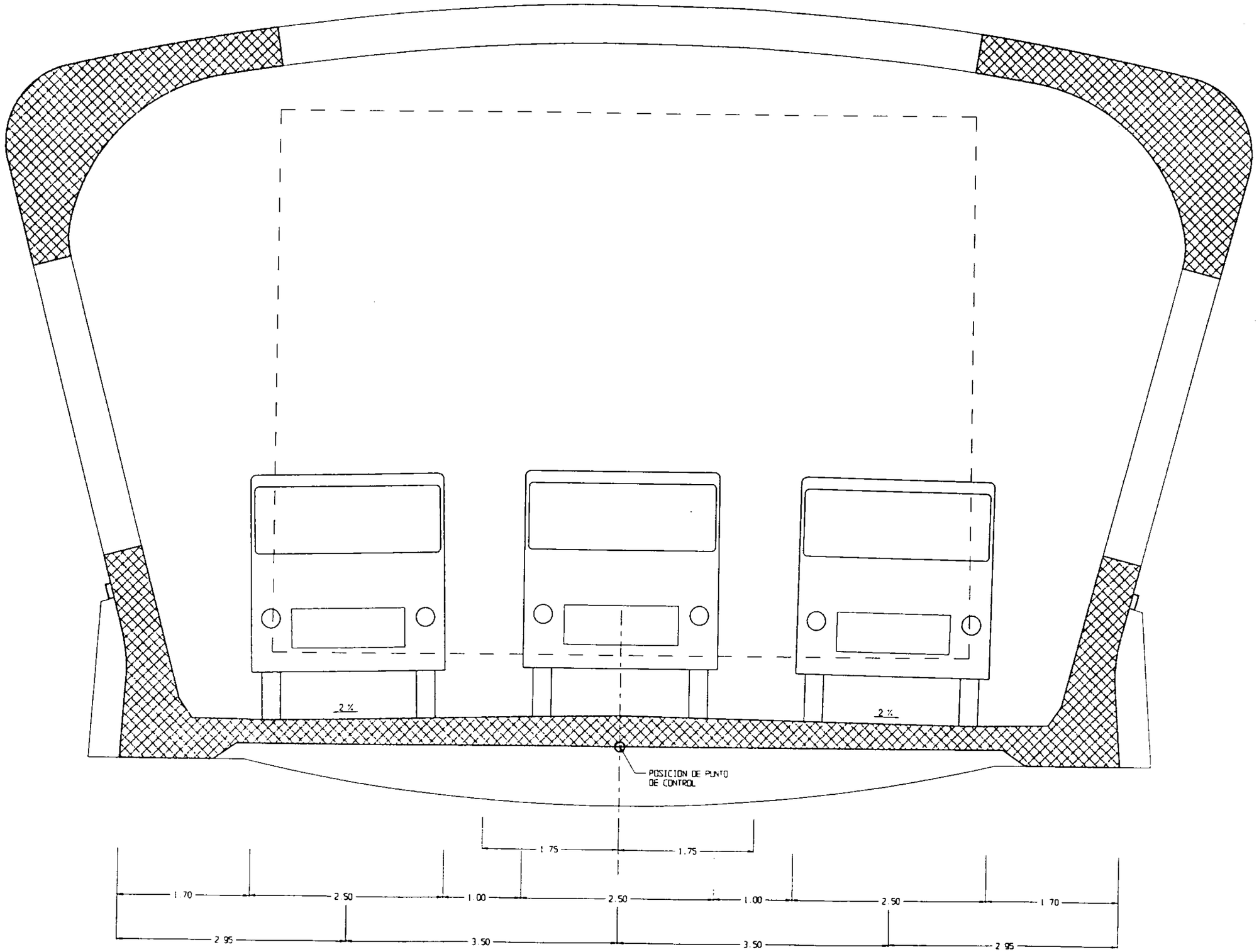
TÍTULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO 11 b. PLATAFORMA

ESCALA NORMAL 1:25 (Numérica / Gráfica) 0 0.5 1 m.

FECHA: OCTUBRE 1998

TÍTULO DEL PLANO: ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA. POSICION DE CAMIONES
Y PUNTOS DE CONTROL EN SECCION TRANSVERSAL

Nº DE PLANO: 2.0.2.8
Hoja 2 de 6



PUNTOS DE MEDICION DE FLECHA EN SECCION POR VANO (PILA 7 A E2)

ESCALA 1:25

P-CARGA3

GIF Gestor de Infraestructuras Ferroviarias

TÍTULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO 11 b. PLATAFORMA

ESCALA NORMAL 1:25 (Numérica / Gráfica) 0 0.5 1 m.

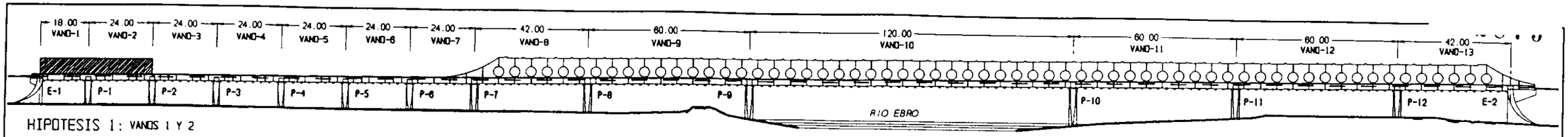
FECHA: OCTUBRE 1998

TÍTULO DEL PLANO: ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA. POSICION DE CAMIONES
Y PUNTOS DE CONTROL EN SECCION TRANSVERSAL

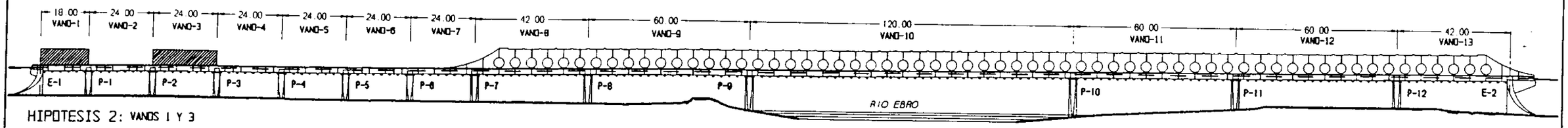
Nº DE PLANO: 2.9.2.8
Hoja 3 de 6

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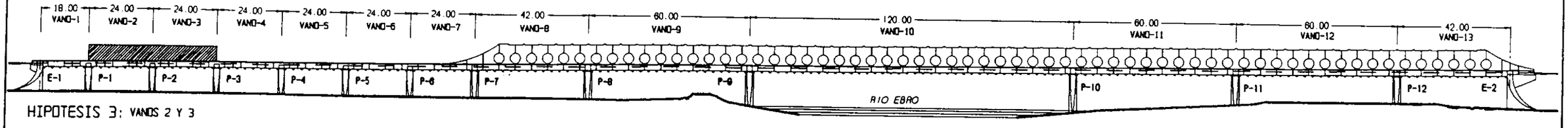
Hipotesis de carga



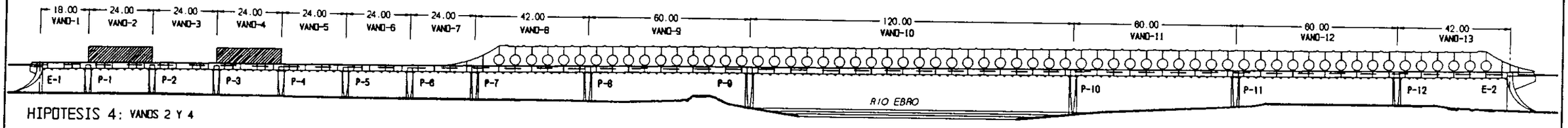
HIPOTESIS 1: VANOS 1 Y 2



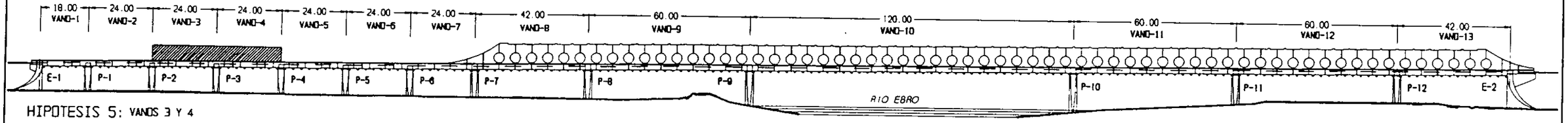
HIPOTESIS 2: VANOS 1 Y 3



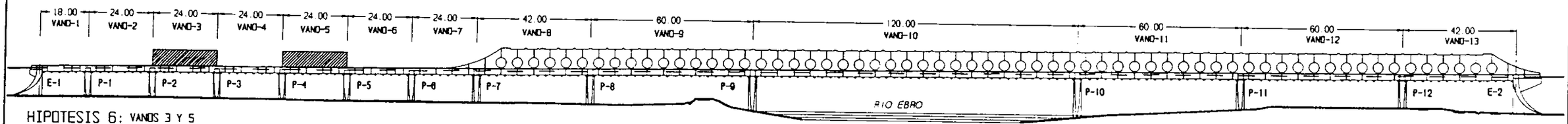
HIPOTESIS 3: VANOS 2 Y 3



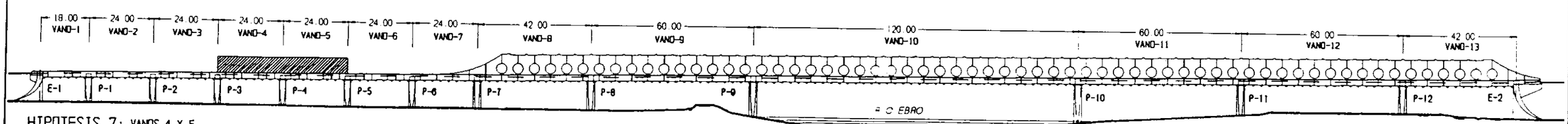
HIPOTESIS 4: VANOS 2 Y 4



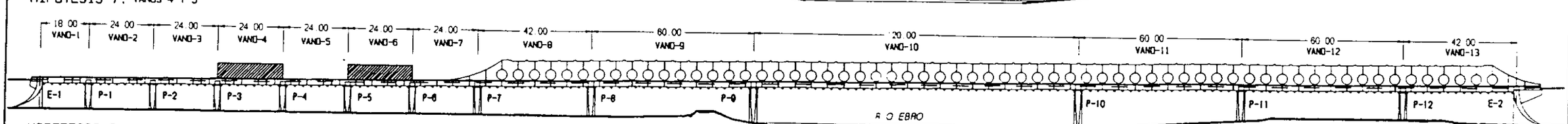
HIPOTESIS 5: VANOS 3 Y 4



HIPOTESIS 6: VANOS 3 Y 5



HIPOTESIS 7: VANOS 4 Y 5



HIPOTESIS 8: VANOS 4 Y 6

P-CARGA4

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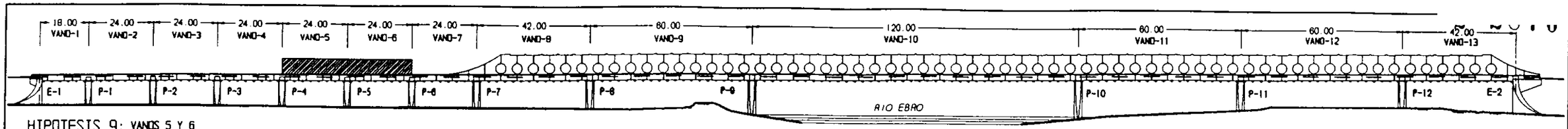
TITULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO 11 b. PLATAFORMA

ESCALA NORMAL
1:750
Numérica | Gráfica
0 15 30 m.

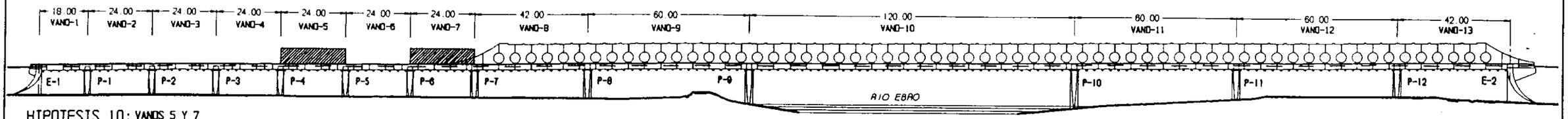
FECHA
OCTUBRE 1998

TITULO DEL PLANO
ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA
HIPOTESIS DE CARGAS (1)

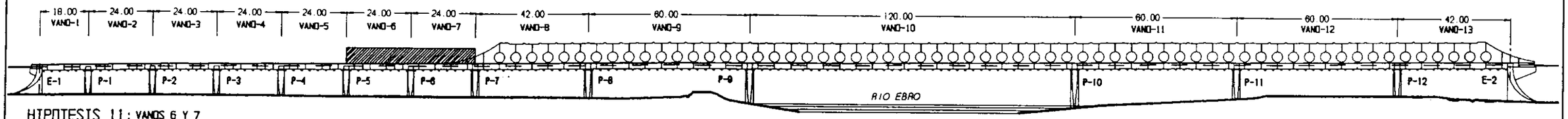
N° DE PLANO
2.9.2.8
Hoja 4 de 6



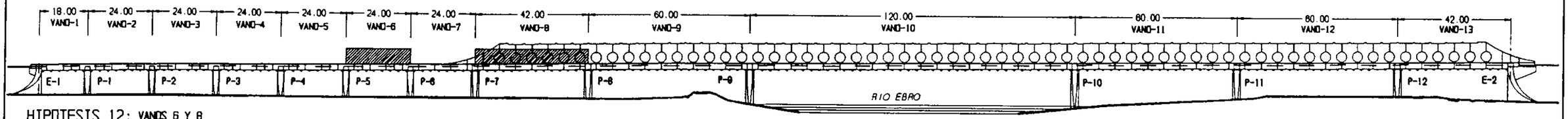
HIPOTESIS 9: VANOS 5 Y 6



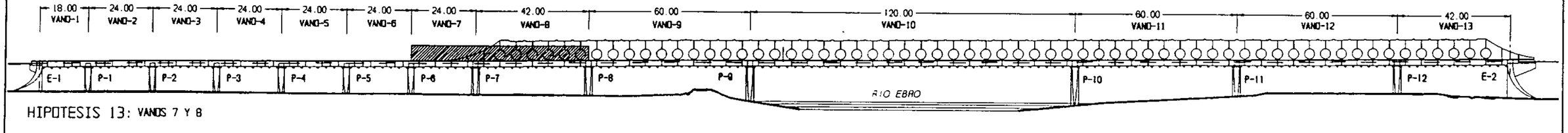
HIPOTESIS 10: VANOS 5 Y 7



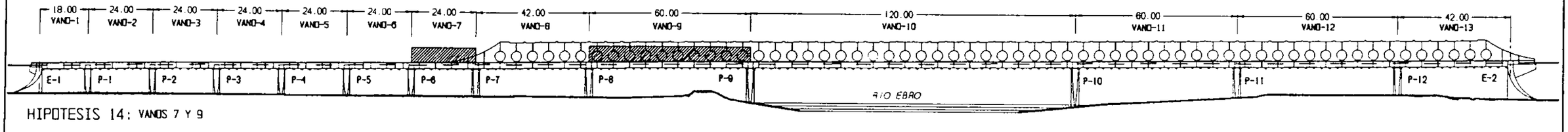
HIPOTESIS 11: VANOS 6 Y 7



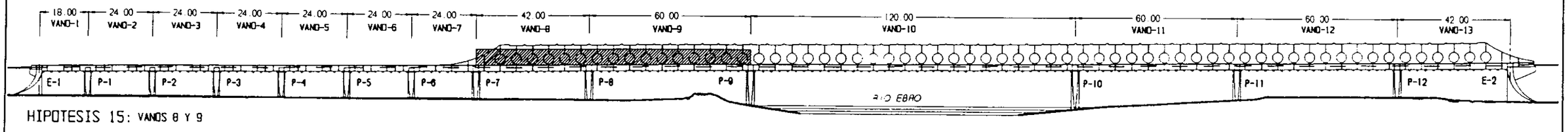
HIPOTESIS 12: VANOS 6 Y 8



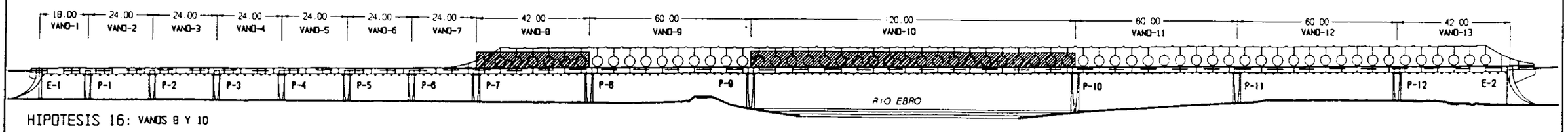
HIPOTESIS 13: VANOS 7 Y 8



HIPOTESIS 14: VANOS 7 Y 9



HIPOTESIS 15: VANOS 8 Y 9



HIPOTESIS 16: VANOS 8 Y 10

P-CARGAS

GIF Gestor de Infraestructuras Ferroviarias

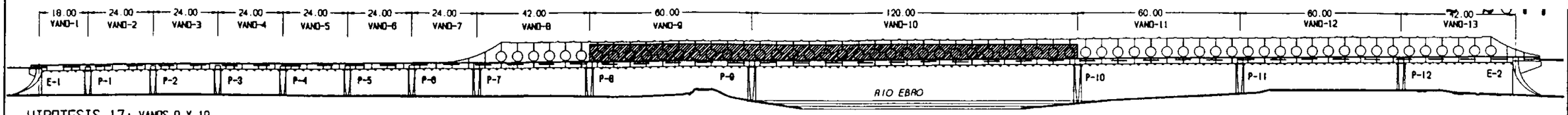
TITULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO II b. PLATAFORMA

ESCALA NORMAL 1:750 (Numérica | Gráfica) 0 15 30 m.

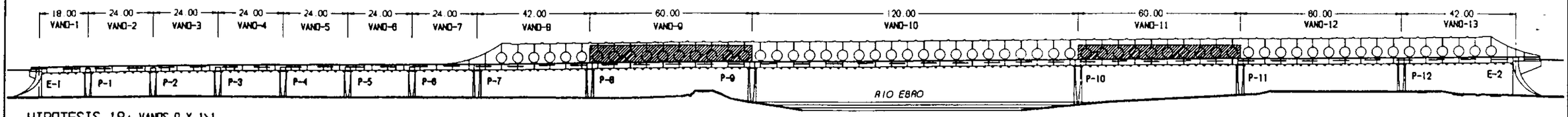
FECHA: OCTUBRE 1998

TITULO DEL PLANO: ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA
HIPOTESIS DE CARGAS (2)

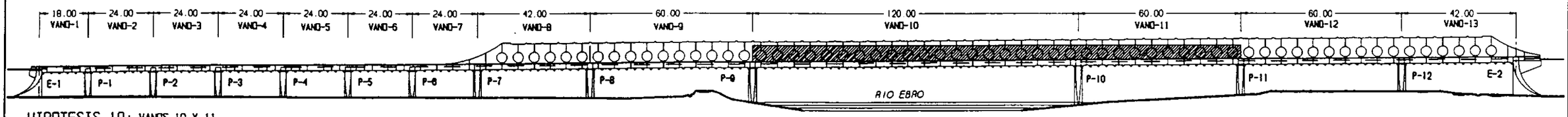
Nº DE PLANO: 2.9.2.8
Hoja 5 de 6



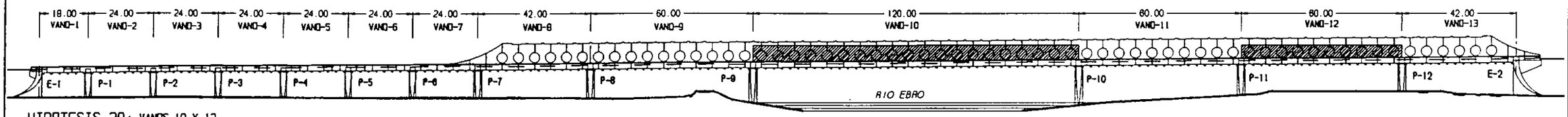
HIPOTESIS 17: VANOS 9 Y 10



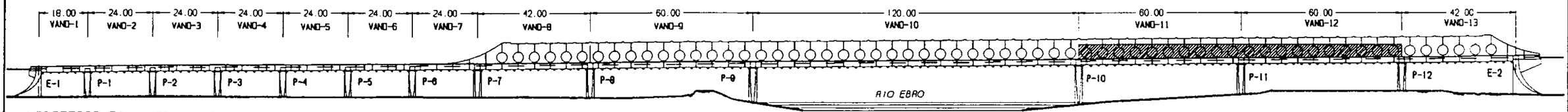
HIPOTESIS 18: VANOS 9 Y 11



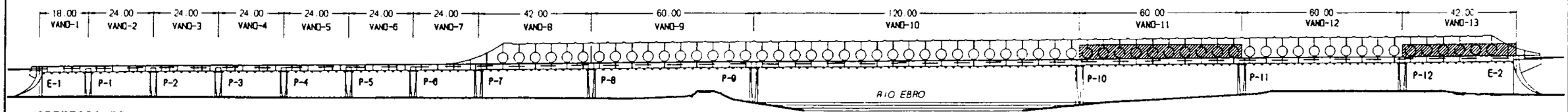
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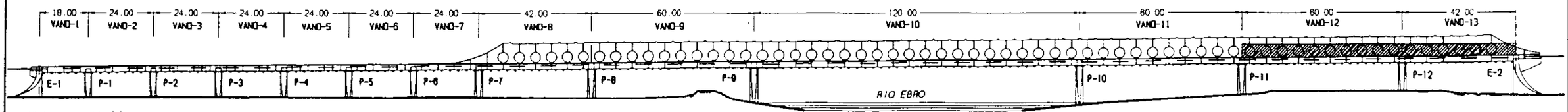
HIPOTESIS 20: VANOS 10 Y 12



HIPOTESIS 21: VANOS 11 Y 12



HIPOTESIS 22: VANOS 11 Y 13



HIPOTESIS 23: VANOS 12 Y 13

P-CARGA6

GIF Gestor de Infraestructuras Ferroviarias

TITULO: PROYECTO DE CONSTRUCCION
LINEA DE ALTA VELOCIDAD
MADRID - BARCELONA - FRONTERA FRANCESA
TRAMO: ZARAGOZA - LLEIDA
SUBTRAMO 11 b. PLATAFORMA

ESCALA NORMAL
1:1750
0 15 30 m.
Numérica | Gráfica

FECHA
OCTUBRE 1998

TITULO DEL PLANO
ESTRUCTURA E-2
PUENTE SOBRE EL RIO EBRO - GENERALES
PRUEBA DE CARGA
HIPOTESIS DE CARGAS (3)

Nº DE PLANO
2.9.2.8
Hoja 8 de 8

)

Desplazamientos en puntos de control

```
estr Viaducto sobre el rio Ebro
nume de nudo  454
nume de barr  467
nume de hipo   23
nume de apoy   14
tipo port espa
list todo
coor de nudo
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    7      0.0000    -10.0000      0.0000 s
    8      2.0000      0.0000      0.0000
    9      4.0000      0.0000      0.0000
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   11      8.0000      0.0000      0.0000
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   20     18.0000     -4.7000      5.8500
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   22     18.0000    -15.2000     -8.1294
   23     18.0000     -9.8500     -6.9680
   24     18.0000     -7.3500     -6.4253
   25     18.0000    -12.3500      7.5107
   26     18.0000    -15.2000      8.1294
   27     18.0000     -9.8500      6.9680
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   30     18.0000    -16.2000      0.0000 s
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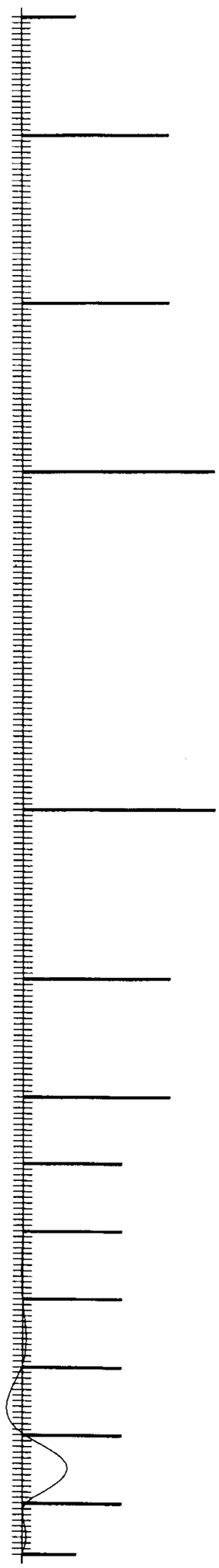
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    2 3195000. 1330000. 2.5
    3 3050000. 1270000. 2.5
hipo  1 Cargados los vanos 1 y 2
carg en barr
  1 a   9 fuer y unif  -6.67
 10 a  21 fuer y unif -10.00
hipo  2 Cargados los vanos 1 y 3
carg en barr
  1 a   9 fuer y unif  -6.67
 22 a  33 fuer y unif -10.00
hipo  3 Cargados los vanos 2 y 3
carg en barr
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 22 a  33 fuer y unif -10.00
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carg en barr
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hipo  6 Cargados los vanos 3 y 5
carg en barr
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hipo 7 Cargados los vanos 4 y 5
carg en barr
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carg en barr
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carg en barr
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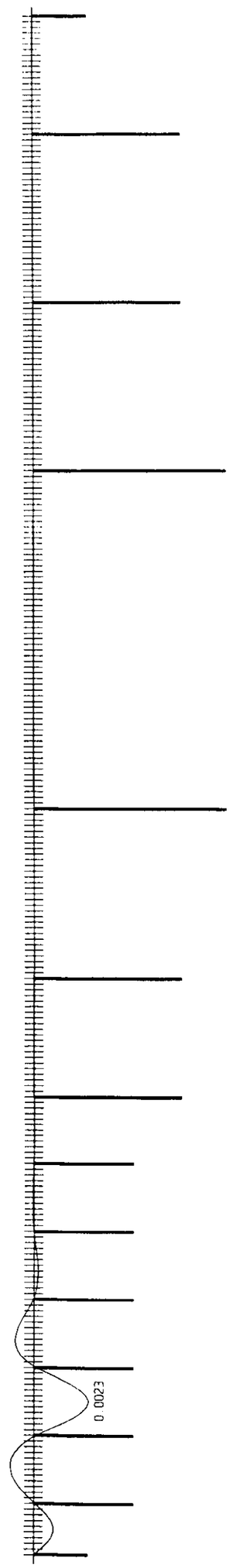
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F. Y 2.0 -3



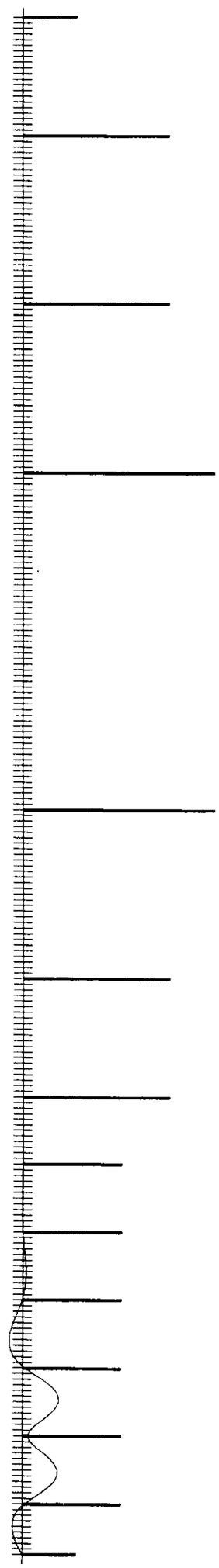
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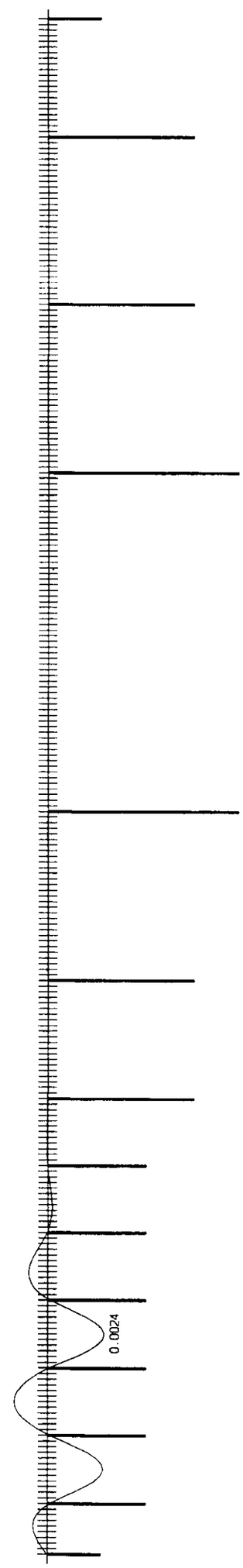
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F. Y 2.0 -3



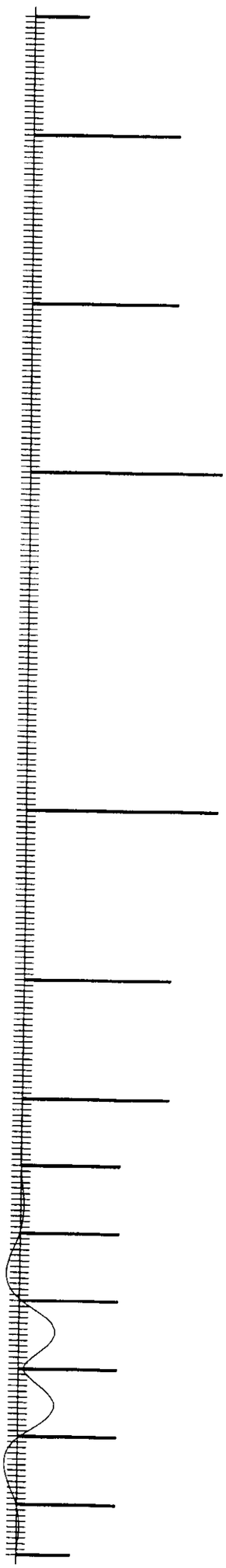
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F. Y 2.0 -3

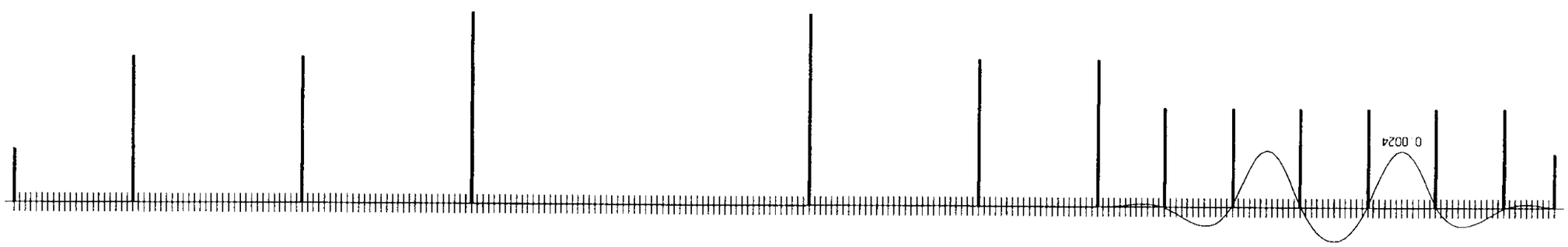


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F. Y 2.0 -3



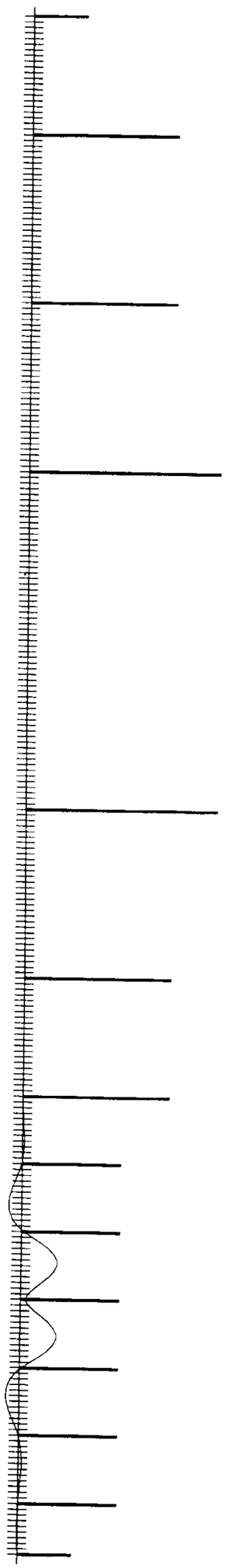
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proc Viaducto sobre el rio Ebro
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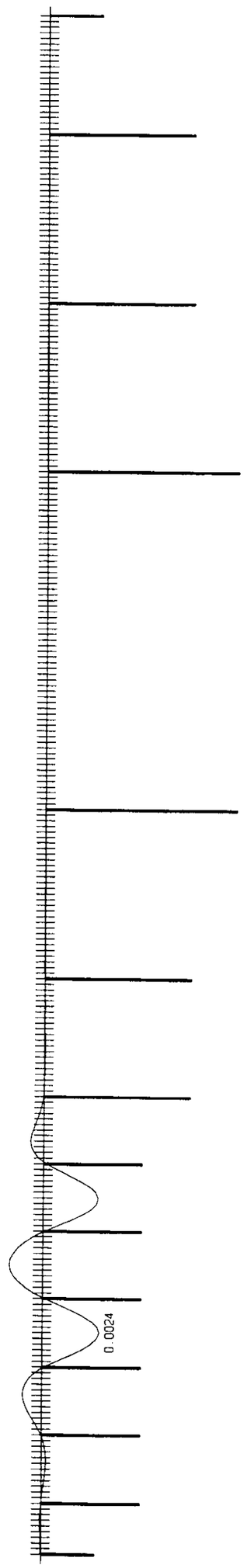
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F. Y 2.0 -3



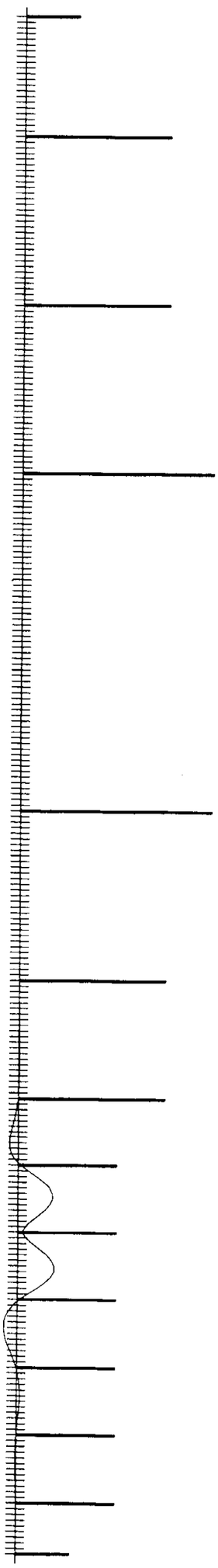
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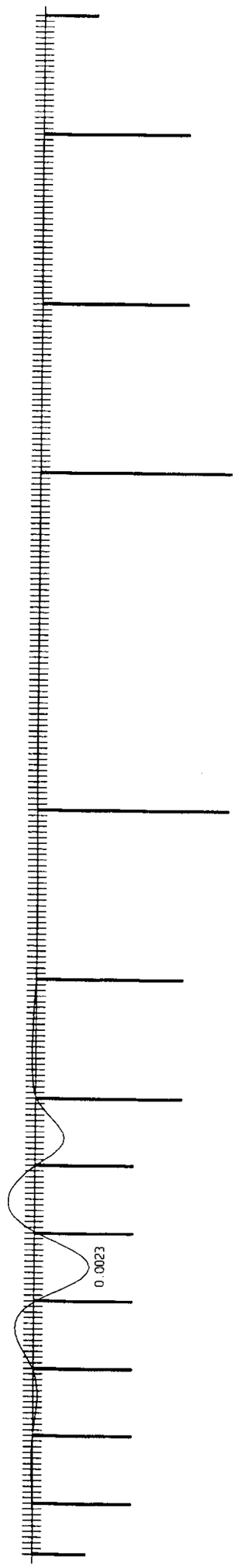
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F. 1 2 0 -3



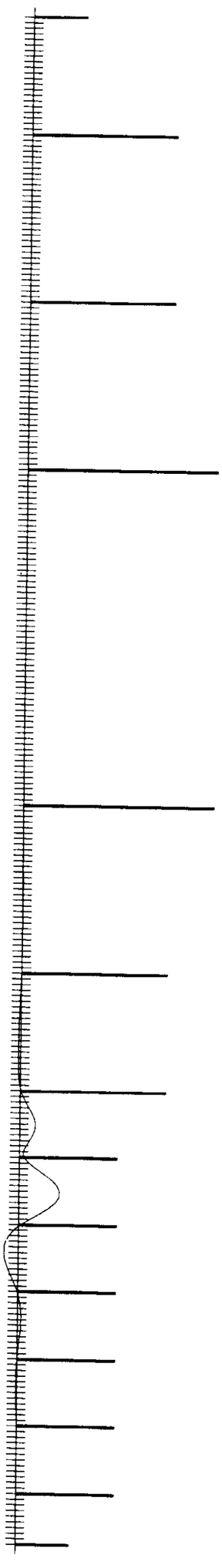
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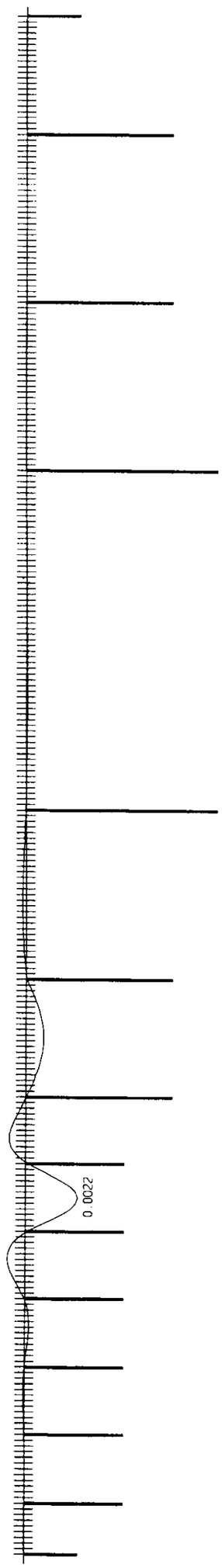
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hipo 1: Cargados los vanos 6 y 7

F Y 2.0 3



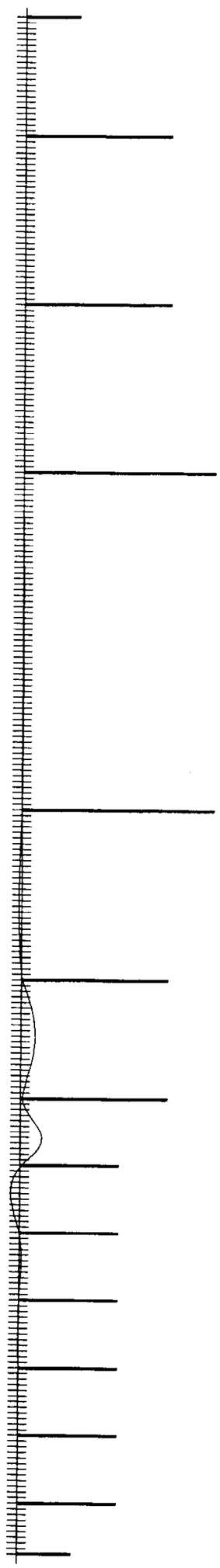
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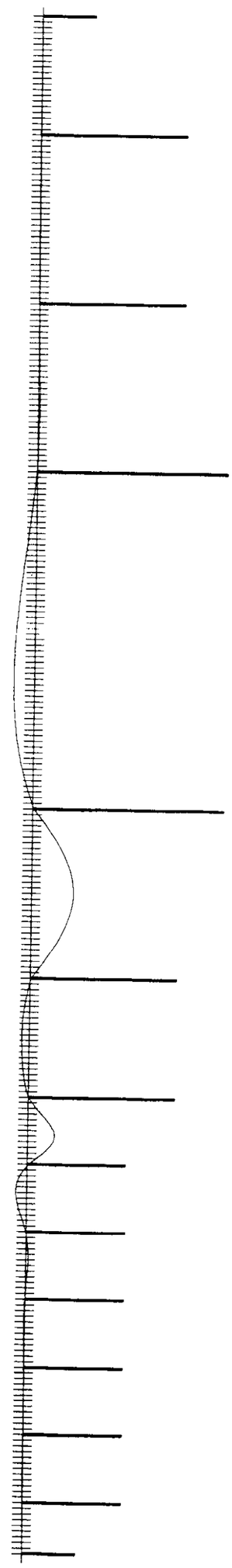


proc Viaducto sobre el rio Ebro
hipo 13 Cargados los vanos 7 y 8

F. Y 2.0 -3

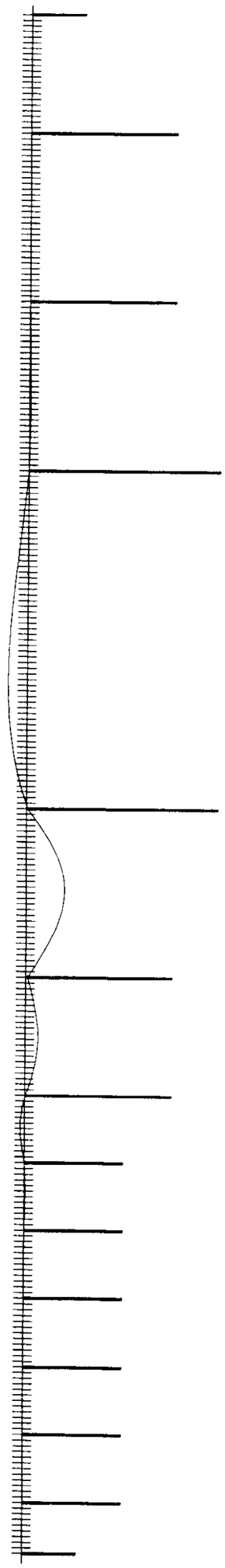


proc Viaducto sobre el rio Ebro
hipo 14 Cargados los vanos 7 y 9



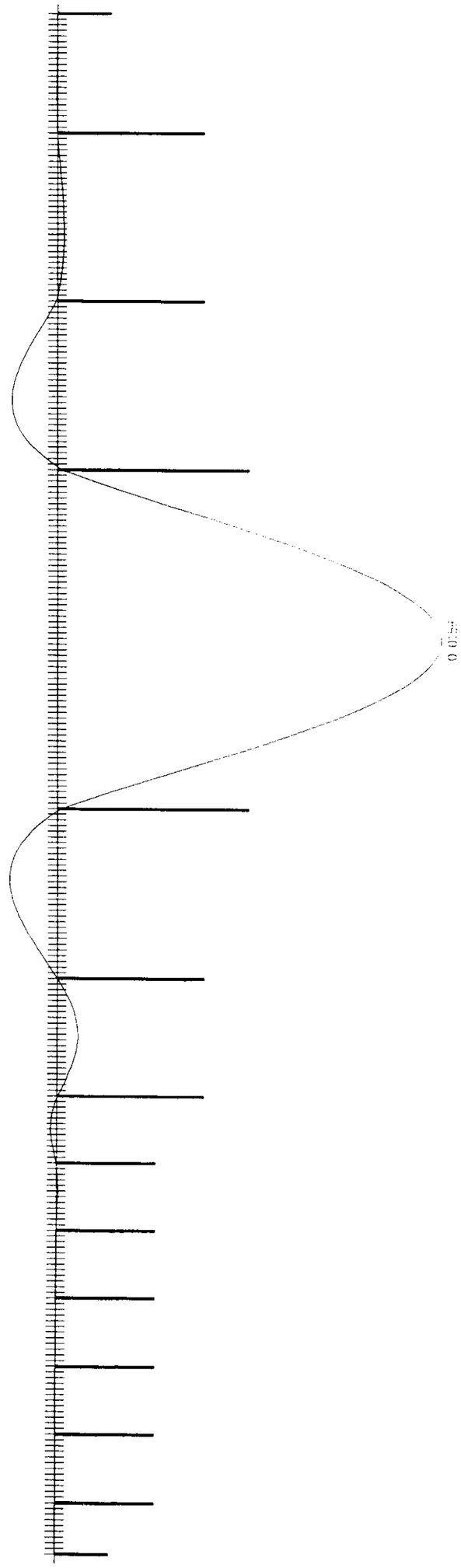
proc Viaducto sobre el rio Ebro
hipo 15 Cargados los vanos 8 y 9

F Y 2.0 -3

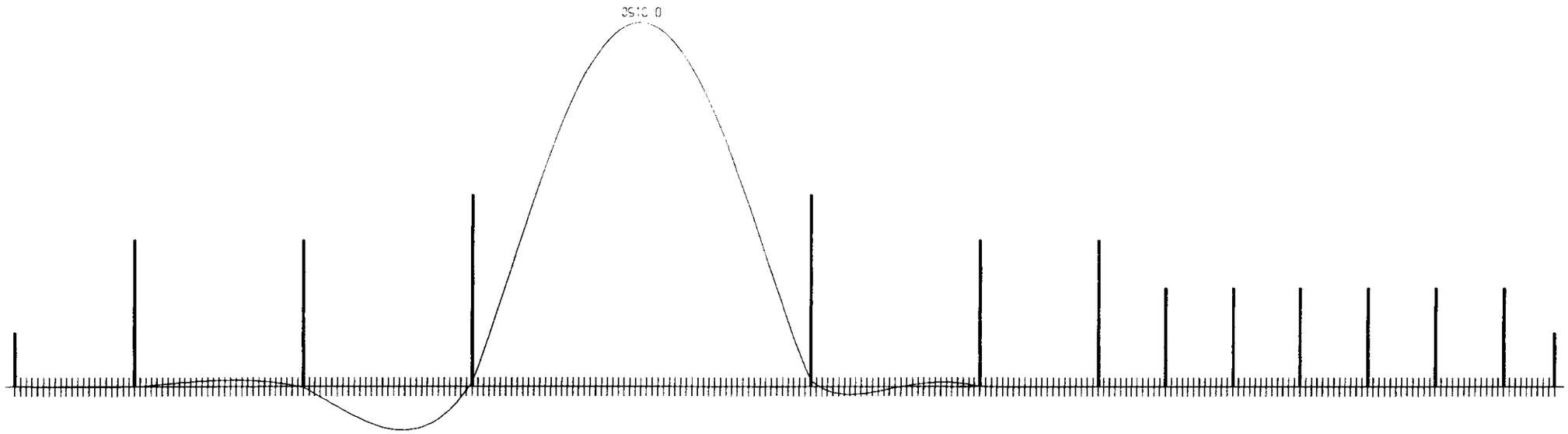


proc Viaducto sobre el rio Ebro
hipo 16 Cargados los vanos 8 y 10

F. Y 2.0 -3



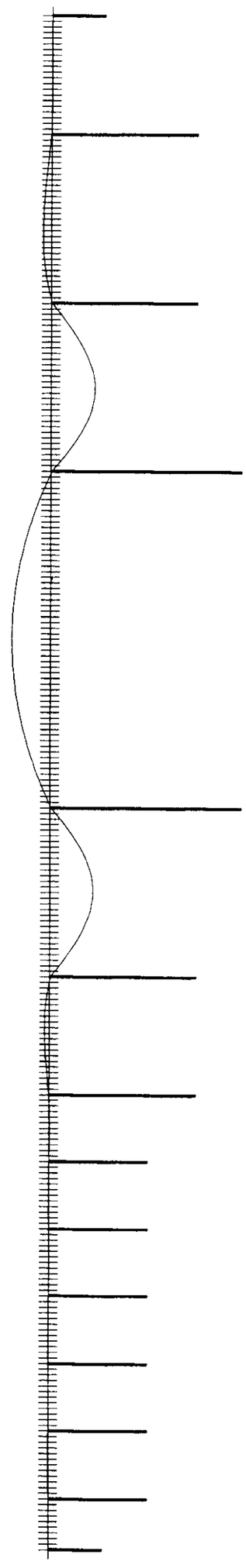
F. Y 2.0 -3



proc Viaducto sobre el rio Ebro
hipo 17 Cargados los vanos 9 y 10

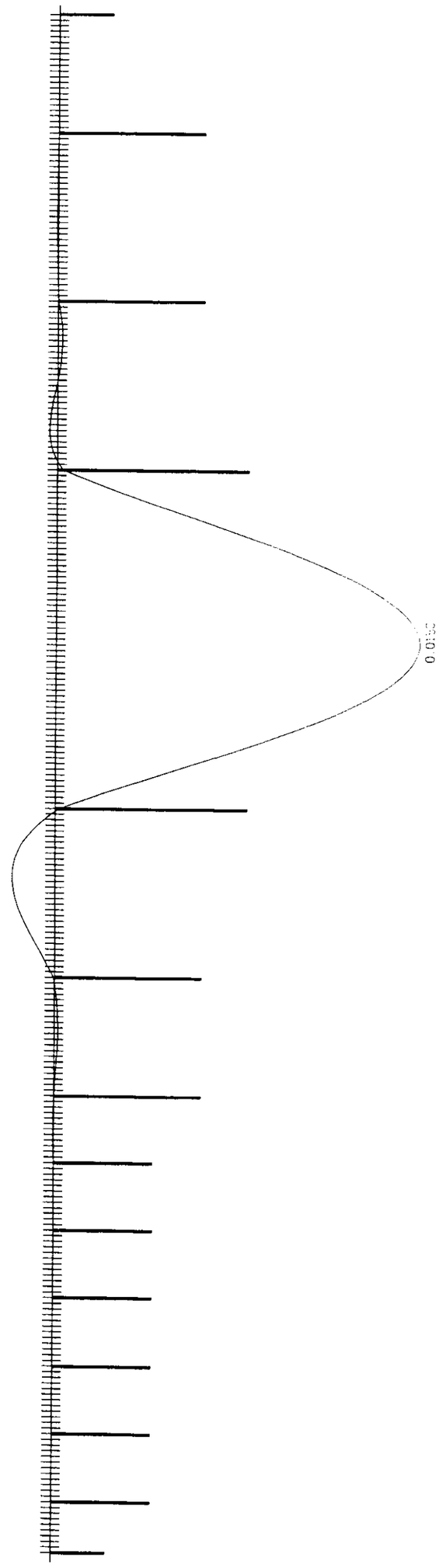
proc Viaducto sobre el rio Ebro
hipo 18 Cargados los vanos 9 y 11

F. Y 2.0 -3

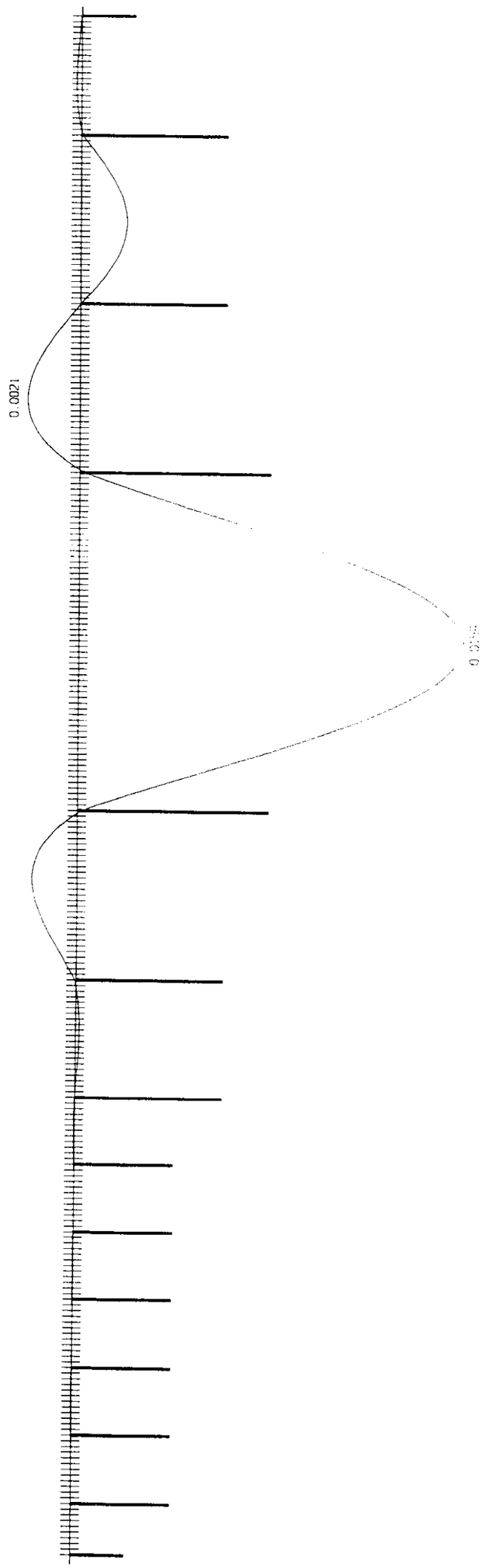


proc Viaducto sobre el rio Ebro
hipo 19 Cargados los vanos 10 y 11

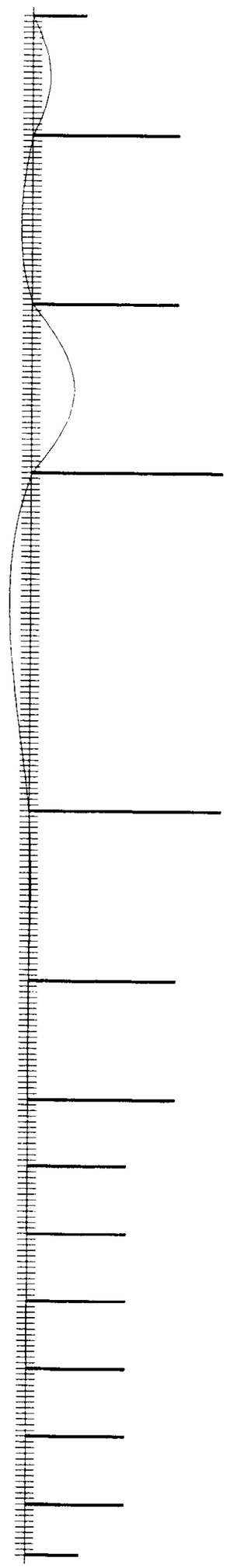
F Y 2.0 3



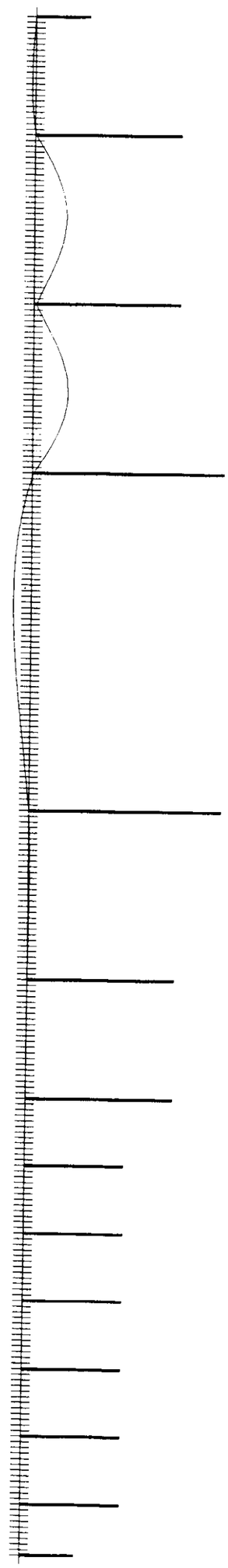
proc Viaducto sobre el rio Ebro
hipo 20 Cargados los vanos 10 y 12



proc Viaducto sobre el rio Ebro
hipo 22 Cargados los vanos 11 y 13

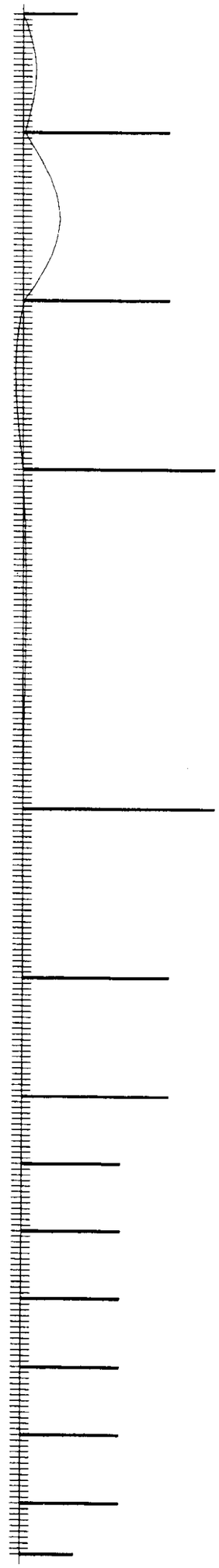


proc Viaducto sobre el rio Ebro
hipo 2: Cargados los vanos 11 y 12



proc Viaducto sobre el rio Ebro
hipo 23 Cargados los vanos 12 y 13

F Y 2.0 -3



PRUEBA DE CARGA DINAMICA

PRUEBA DE CARGA DINÁMICA

La prueba de carga dinámica tiene por objeto la identificación de los parámetros de cálculo dinámicos considerados en el cálculo por, a fuera generación se puede concretar en la evaluación del periodo o frecuencia de vibración vertical cuyo más fundamental tiene mayor repercusión en la caracterización dinámica ante el paso de la sobrecarga

El cálculo de modos de vibración en la dirección frontal del puente (con V.S y Solicit) a la relación en la aportación correspondiente a la evaluación de la sobrecarga dinámica para la determinación del coeficiente de impacto Dado que es posible la realización de la prueba de carga con la instalación de la vía y por tanto la misma frecuencia significativa de la masa del tablero como es el Solicit. Se calculan los modos de vibración tanto en la hipótesis con o sin carga móvil por la correcta identificación de los primeros dinámicos

Los modos se resumen en el cuadro siguiente

	PUENTE CON BALASTO			PUENTE SIN BALASTO		
MODO	Nº MODO	% MASA	f (Hz)	Nº MODO	% MASA	f (Hz)
1	4	9,7	1,74	4	8,9	2,20
2	29	19,6	5,26	36	15,8	6,58

AUTOVALORES (Puente sin balasto)

N	AUTOVALOR	FRECUENCIA(HZ)	PERIODO(SEG.)
1	0.32151E+02	0.9024	1.10810
2	0.86428E+02	1.4796	0.67585
3	0.12133E+03	1.7531	0.57041
4	0.19141E+03	2.2019	0.45415
5	0.27650E+03	2.6465	0.37786
6	0.28023E+03	2.6643	0.37534
7	0.31982E+03	2.8462	0.35134
8	0.34840E+03	2.9707	0.33662
9	0.35605E+03	3.0032	0.33298
10	0.36308E+03	3.0326	0.32975
11	0.37255E+03	3.0719	0.32553
12	0.43327E+03	3.3128	0.30186
13	0.43804E+03	3.3310	0.30021
14	0.44448E+03	3.3554	0.29803
15	0.44669E+03	3.3638	0.29729
16	0.44829E+03	3.3698	0.29676
17	0.44945E+03	3.3741	0.29637
18	0.45268E+03	3.3862	0.29532
19	0.57256E+03	3.8083	0.26259
20	0.59827E+03	3.8928	0.25688
21	0.74086E+03	4.3320	0.23084
22	0.77275E+03	4.4242	0.22603
23	0.79246E+03	4.4803	0.22320
24	0.84026E+03	4.6135	0.21676
25	0.10439E+04	5.1421	0.19447
26	0.11889E+04	5.4876	0.18223
27	0.13319E+04	5.8084	0.17217
28	0.13528E+04	5.8538	0.17083
29	0.13586E+04	5.8662	0.17047
30	0.13985E+04	5.9519	0.16801
31	0.14117E+04	5.9798	0.16723
32	0.14253E+04	6.0087	0.16643
33	0.14359E+04	6.0310	0.16581
34	0.14455E+04	6.0511	0.16526
35	0.16351E+04	6.4356	0.15539
36	0.17087E+04	6.5789	0.15200
37	0.17170E+04	6.5948	0.15164
38	0.17266E+04	6.6133	0.15121
39	0.17453E+04	6.6489	0.15040
40	0.17533E+04	6.6641	0.15006
41	0.17567E+04	6.6707	0.14991
42	0.17626E+04	6.6819	0.14966
43	0.17676E+04	6.6914	0.14945
44	0.19699E+04	7.0638	0.14157
45	0.20466E+04	7.2000	0.13889
46	0.20930E+04	7.2813	0.13734
47	0.21486E+04	7.3773	0.13555
48	0.22968E+04	7.6275	0.13110
49	0.24814E+04	7.9280	0.12613
50	0.25100E+04	7.9737	0.12541
51	0.26629E+04	8.2130	0.12176
52	0.29509E+04	8.6456	0.11567
53	0.29949E+04	8.7098	0.11481
54	0.30220E+04	8.7492	0.11430

55	0.30564E+04	8.7989	0.11365
56	0.30717E+04	8.8208	0.11337
57	0.30860E+04	8.8414	0.11310
58	0.32353E+04	9.0527	0.11046
59	0.36532E+04	9.6196	0.10395
60	0.37283E+04	9.7180	0.10290
61	0.37639E+04	9.7642	0.10241
62	0.38069E+04	9.8199	0.10183
63	0.38363E+04	9.8577	0.10144
64	0.38524E+04	9.8783	0.10123
65	0.38621E+04	9.8908	0.10110
66	0.39154E+04	9.9589	0.10041
67	0.39391E+04	9.9890	0.10011
68	0.40512E+04	10.1301	0.09872
69	0.41513E+04	10.2545	0.09752
70	0.41733E+04	10.2815	0.09726
71	0.44710E+04	10.6419	0.09397
72	0.45582E+04	10.7452	0.09306
73	0.46641E+04	10.8694	0.09200
74	0.47863E+04	11.0108	0.09082
75	0.49007E+04	11.1416	0.08975

MASA TOTAL DE CALCULO DE LA ESTRUCTURA: 30474.1

PROPORCION DE MASA MOVILIZADA ACUMULADA
PARA CADA MODO Y DIRECCION EN ACCIONES SISMICAS

MODO	TANTO POR CIENTO PARA CADA DIRECCION		
1	56.4	0.0	0.0
2	56.4	0.0	0.3
3	56.4	0.5	20.3
4	56.4	8.9	20.7
5	56.4	8.9	20.8
6	56.4	8.9	20.8
7	56.4	8.9	22.0
8	56.4	8.9	23.0
9	56.4	8.9	23.4
10	56.4	8.9	23.4
11	56.4	9.0	23.9
12	56.4	9.3	41.4
13	56.4	9.3	43.8
14	56.4	9.3	43.8
15	56.4	9.3	43.8
16	56.4	9.3	43.8
17	56.4	9.3	43.8
18	56.4	9.3	43.8
19	56.4	9.6	55.0
20	56.4	9.6	55.3
21	56.9	9.6	55.3
22	56.9	9.6	55.3
23	56.9	9.6	55.3
24	56.9	9.6	56.3
25	56.9	9.6	56.4
26	56.9	9.6	56.4
27	56.9	9.6	56.4
28	56.9	9.6	56.4
29	56.9	9.6	56.4
30	56.9	9.6	56.4
31	56.9	9.7	56.4
32	56.9	9.8	56.4
33	56.9	10.0	56.5
34	56.9	10.2	56.5
35	56.9	10.2	56.5
36	56.9	15.8	57.3
37	56.9	17.1	58.3
38	56.9	18.1	58.3
39	56.9	18.1	58.3
40	56.9	18.2	58.3
41	56.9	18.2	58.4
42	56.9	18.2	58.4
43	56.9	18.2	58.4
44	56.9	26.5	58.6
45	56.9	26.5	58.6
46	56.9	26.6	58.6
47	56.9	26.6	58.6
48	57.0	26.6	58.6
49	57.0	26.6	58.6

50	57.0	26.6	58.6
51	57.0	26.6	59.1
52	57.0	26.7	59.1
53	57.0	26.9	59.2
54	57.0	27.0	59.2
55	57.0	27.0	59.2
56	57.0	27.0	59.2
57	57.0	27.0	59.2
58	57.0	27.2	59.2
59	57.0	27.2	59.2
60	57.0	27.4	59.2
61	57.0	27.8	59.3
62	57.0	27.8	59.5
63	57.0	28.5	59.7
64	57.0	28.7	59.8
65	57.0	28.7	59.8
66	57.0	29.0	60.1
67	57.0	30.8	60.1
68	57.0	36.1	60.3
69	57.0	36.4	60.3
70	57.0	39.5	60.5
71	57.0	39.5	60.5
72	57.0	39.5	60.5
73	57.0	42.0	61.3
74	57.0	42.0	61.3
75	57.0	42.0	61.3

AUTOVALORES (Puente con balasto)

N	AUTOVALOR	FRECUENCIA(HZ)	PERIODO(SEG.)
1	0.20709E+02	0.7243	1.38069
2	0.76923E+02	1.3959	0.71639
3	0.86249E+02	1.4781	0.67655
4	0.12014E+03	1.7445	0.57323
5	0.21762E+03	2.3478	0.42592
6	0.26651E+03	2.5982	0.38488
7	0.27340E+03	2.6316	0.38000
8	0.28255E+03	2.6753	0.37379
9	0.33958E+03	2.9329	0.34096
10	0.35268E+03	2.9889	0.33457
11	0.35432E+03	2.9958	0.33380
12	0.35698E+03	3.0071	0.33255
13	0.39068E+03	3.1458	0.31788
14	0.43878E+03	3.3338	0.29995
15	0.43943E+03	3.3363	0.29973
16	0.44014E+03	3.3390	0.29949
17	0.44071E+03	3.3412	0.29930
18	0.44111E+03	3.3427	0.29916
19	0.44460E+03	3.3559	0.29799
20	0.52272E+03	3.6388	0.27482
21	0.57244E+03	3.8079	0.26261
22	0.74489E+03	4.3438	0.23022
23	0.75723E+03	4.3796	0.22833
24	0.77959E+03	4.4438	0.22503
25	0.78501E+03	4.4592	0.22426
26	0.90896E+03	4.7983	0.20841

27	0.99381E+03	5.0173	0.19931
28	0.10561E+04	5.1721	0.19334
29	0.10910E+04	5.2569	0.19023
30	0.11064E+04	5.2940	0.18889
31	0.12611E+04	5.6519	0.17693
32	0.12994E+04	5.7371	0.17431
33	0.13040E+04	5.7473	0.17400
34	0.13143E+04	5.7699	0.17331
35	0.13368E+04	5.8190	0.17185
36	0.13702E+04	5.8913	0.16974
37	0.13821E+04	5.9167	0.16901
38	0.13918E+04	5.9377	0.16842
39	0.13987E+04	5.9522	0.16800
40	0.14531E+04	6.0668	0.16483
41	0.15111E+04	6.1869	0.16163
42	0.16081E+04	6.3823	0.15668
43	0.17277E+04	6.6154	0.15116
44	0.17290E+04	6.6178	0.15111
45	0.17307E+04	6.6211	0.15103
46	0.17328E+04	6.6251	0.15094
47	0.17346E+04	6.6286	0.15086
48	0.18486E+04	6.8429	0.14614
49	0.18575E+04	6.8593	0.14579
50	0.20656E+04	7.2334	0.13825
51	0.21838E+04	7.4374	0.13446
52	0.24277E+04	7.8419	0.12752
53	0.24348E+04	7.8532	0.12734
54	0.24834E+04	7.9313	0.12608
55	0.25923E+04	8.1033	0.12341
56	0.26023E+04	8.1189	0.12317
57	0.26455E+04	8.1861	0.12216
58	0.27324E+04	8.3194	0.12020
59	0.29030E+04	8.5752	0.11662
60	0.29630E+04	8.6633	0.11543
61	0.30012E+04	8.7191	0.11469
62	0.30126E+04	8.7356	0.11447
63	0.30255E+04	8.7542	0.11423
64	0.30522E+04	8.7928	0.11373
65	0.32773E+04	9.1113	0.10975
66	0.34229E+04	9.3115	0.10739
67	0.35082E+04	9.4268	0.10608
68	0.36007E+04	9.5502	0.10471
69	0.37798E+04	9.7849	0.10220
70	0.37823E+04	9.7881	0.10216
71	0.37859E+04	9.7928	0.10212
72	0.37883E+04	9.7959	0.10208
73	0.37918E+04	9.8003	0.10204
74	0.39423E+04	9.9929	0.10007
75	0.40175E+04	10.0878	0.09913

MASA TOTAL DE CALCULO DE LA ESTRUCTURA: 42513.4

PROPORCION DE MASA MOVILIZADA ACUMULADA
PARA CADA MODO Y DIRECCION EN ACCIONES SISMICAS

MODO	TANTO POR CIENTO PARA CADA DIRECCION		
1	63.2	0.0	0.0
2	63.2	0.4	19.6
3	63.2	0.5	21.9
4	63.2	9.7	22.4
5	63.2	9.8	24.1
6	63.2	9.9	34.0
7	63.2	9.9	35.8
8	63.2	10.1	46.1
9	63.2	10.1	46.1
10	63.2	10.1	46.1
11	63.2	10.2	46.8
12	63.2	10.2	47.2
13	63.2	10.2	47.4
14	63.2	10.2	47.4
15	63.2	10.2	47.4
16	63.2	10.2	47.4
17	63.2	10.2	47.4
18	63.2	10.2	47.4
19	63.2	10.2	47.4
20	63.7	10.2	47.4
21	63.7	10.2	50.3
22	63.7	10.2	50.4
23	63.7	10.3	50.4
24	63.7	10.3	50.4
25	63.7	10.3	51.6
26	63.7	10.9	51.6
27	63.7	10.9	51.6
28	63.7	11.1	59.8
29	63.7	19.6	60.0
30	63.7	19.6	63.1
31	63.7	28.4	63.3
32	63.7	28.4	63.4
33	63.7	28.5	63.4
34	63.7	28.6	63.5
35	63.7	28.6	63.6
36	63.7	28.6	63.6
37	63.7	28.7	63.7
38	63.7	28.7	63.7
39	63.7	28.7	63.7
40	63.8	28.7	63.7
41	63.8	28.7	63.7
42	63.8	28.7	63.7
43	63.8	28.7	63.7
44	63.8	28.7	63.7
45	63.8	28.7	63.7
46	63.8	28.7	63.7
47	63.8	28.7	63.7
48	63.8	28.8	64.2
49	63.8	29.2	64.3
50	63.8	29.2	64.3
51	63.8	29.2	64.3
52	63.8	29.4	64.3
53	63.8	30.8	64.4
54	63.8	31.4	64.6
55	63.8	34.5	65.0
56	63.8	36.3	65.1
57	63.8	41.3	65.1
58	63.8	43.1	65.3
59	63.8	43.1	65.4
60	63.8	43.3	65.4
61	63.8	43.3	65.4
62	63.8	43.3	65.4
63	63.8	43.4	65.4
64	63.8	43.4	65.4
65	63.8	43.5	65.4
66	63.8	45.3	65.5
67	63.8	45.3	65.9
68	63.8	45.3	65.9
69	63.8	45.3	65.9
70	63.8	45.3	65.9
71	63.8	45.3	65.9
72	63.8	45.3	65.9
73	63.8	45.3	65.9
74	63.8	45.3	65.9
75	63.8	45.7	66.1