

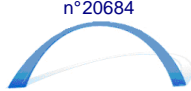
PONTE SULLO STRETTO DI MESSINA



PROGETTO DEFINITIVO

EUROLINK S.C.p.A.

IMPREGILO S.p.A. (MANDATARIA)
SOCIETÀ ITALIANA PER CONDOTTE D'ACQUA S.p.A. (MANDANTE)
COOPERATIVA MURATORI E CEMENTISTI - C.M.C. DI RAVENNA SOC. COOP. A.R.L. (MANDANTE)
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A.C.I. S.C.P.A. - CONSORZIO STABILE (MANDANTE)

<p>IL PROGETTISTA Edin S.r.l. Società di Ingegneria Dott. Ing. M. Colasanti Ordine Ingegneri Roma n°20684</p>  <p>Dott. Ing. E. Pagani Ordine Ingegneri Milano n°15408</p>	<p>IL CONTRAENTE GENERALE</p> <p>Project Manager (Ing. P.P. Marcheselli)</p>	<p>STRETTO DI MESSINA Direttore Generale e RUP Validazione (Ing. G. Fiammenghi)</p>	<p>STRETTO DI MESSINA Amministratore Delegato (Dott. P. Ciucci)</p>
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<p><i>Unità Funzionale</i></p> <p><i>Tipo di sistema</i></p> <p><i>Raggruppamento di opere/attività</i></p> <p><i>Opera - tratto d'opera - parte d'opera</i></p> <p><i>Titolo del documento</i></p>	<p>OPERA DI ATTRAVERSAMENTO</p> <p>STUDI DI BASE</p> <p>ANALISI GLOBALI</p> <p>Generale</p> <p>Verifiche indipendenti di scenario della risposta sismica – Annex 2</p>	<p>PB0026_F0</p>
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CODICE	<table border="1"> <tr> <td>C</td><td>G</td><td>1</td><td>2</td><td>0</td><td>0</td><td>P</td><td>R</td><td>X</td><td>D</td><td>P</td><td>S</td><td>B</td><td>A</td><td>2</td><td>G</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>F0</td> </tr> </table>	C	G	1	2	0	0	P	R	X	D	P	S	B	A	2	G	0	0	0	0	0	0	0	1	F0
C	G	1	2	0	0	P	R	X	D	P	S	B	A	2	G	0	0	0	0	0	0	0	1	F0		

REV	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO
F0	20-06-2011	EMISSIONE FINALE	DC	SP	CV

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p>Verifiche indipendenti di scenario della risposta sismica – Annex 2</p>	<p><i>Codice documento</i> PB0026_1</p>	<p><i>Rev</i> 1</p>	<p><i>Data</i> 09-05-2011</p>	

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		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
Verifiche indipendenti di scenario della risposta sismica – Annex 2	<i>Codice documento</i> PB0026_1	<i>Rev</i> 1	<i>Data</i> 09-05-2011	

1 Sommario

Il documento riporta il file di input “ADINA” utilizzato per l’analisi della risposta sismica dell’opera.

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p>Verifiche indipendenti di scenario della risposta sismica – Annex 2</p>	<p><i>Codice documento</i> PB0026_1</p>	<p><i>Rev</i> 1</p>	<p><i>Data</i> 09-05-2011</p>	

2 Listato di input “ADINA”

```

database new save=no prompt=no

feprogram adina

heading 'Modello 2010'

*
*
*
*
* *egroup 1 = cavi (y<0)
* *egroup 2 = cavi (y>0)
* *egroup 3 = pendini (y<0)
* *egroup 4 = pendini (y>0)
* *egroup 5 = cassoni stradali (y<0)
* *egroup 6 = cassoni stradali (y>0)
* *egroup 7 = cassoni ferroviari
* *egroup 8 = traversi
* *egroup 9 = torre Sicilia
* *egroup 10 = torre Calabria
* *egroup 11 = crociere
* *egroup 12 = fondazione torre Sicilia
* *egroup 13 = fondazione torre Calabria
* *egroup 14 = splay saddle
* *egroup 15 = molle e dash-pot
* *egroup 16 = link torri
* *egroup 17-22 = strutture terminali
* *egroup 23 = pantano
*
* *****
*
* *Nodi gruppi
*
* *egroup 1 da 4 a 174
*
* *egroup 2 da 175 a 345
*
* *egroup 3 da 30 a 152
*
* da 4076 a 4091

```

* *egroup 4 da 201 a 323
 * da 4195 a 4313
 * *egroup 5 da 346 a 872
 * *egroup 6 da 1428 a 1954
 * *egroup 7 da 873 a 1427
 * *egroup 8 da 1955 a 3509
 * *egroup 9 da 3522 a 3788
 * *egroup 10 da 3798 a 4064
 * *egroup 11 da 4065 a 4075
 * *egroup 12 da 3514 a 3521
 * da 3630 a 3637
 * da 3756 a 3777
 * *egroup 13 da 3790 a 3797
 * da 3906 a 3913
 * da 4021 a 4025
 * *egroup 14 da 4314 a 4321
 * *egroup 15
 * *egroup 16
 * *egroup 17
 * *egroup 18
 * *

savenode blocks

1 4 395 1
 2 891 892 1
 3 1959 1960 1
 4 1967 1968 1
 5 3497 3498 1
 6 3501 3502 1
 7 3505 3506 1
 8 3522 3523 1

9	3539	3540	1
10	3594	3595	1
11	3638	3639	1
12	3655	3656	1
13	3710	3711	1
14	3798	3799	1
15	3818	3819	1
16	3870	3871	1
17	3914	3915	1
18	3934	3935	1
19	3986	3987	1
20	4067	4068	1
21	4073	4074	1
22	4332	4333	1
23	4549	4550	1
24	4666	4667	1
25	4820	4821	1
26	5652	5655	1
27	5661	5665	1
28	5815	5816	1
29	5926	5927	1
30	6038	6039	1
31	6733	6740	1
32	6741	6749	1
33	6901	6908	1

printnode blocks

1	4	395	1
2	891	892	1
3	1959	1960	1

4	1967	1968	1
5	3497	3498	1
6	3501	3502	1
7	3505	3506	1
8	3522	3523	1
9	3539	3540	1
10	3594	3595	1
11	3638	3639	1
12	3655	3656	1
13	3710	3711	1
14	3798	3799	1
15	3818	3819	1
16	3870	3871	1
17	3914	3915	1
18	3934	3935	1
19	3986	3987	1
20	4067	4068	1
21	4073	4074	1
22	4332	4333	1
23	4549	4550	1
24	4666	4667	1
25	4820	4821	1
26	5652	5655	1
27	5661	5665	1
28	5815	5816	1
29	5926	5927	1
30	6038	6039	1
31	6733	6740	1
32	6741	6749	1
33	6901	6908	1

coordinates node

entries n x y z

* *

* * Punti ausiliari per la definizione delle sezioni e dei carichi

1 1.00E+10 0 0

2 0 1.00E+10 0

3 0 0 1.00E+10

* *egroup 1: cavi y=-26m

4 -2630.18 -26 40.397

5 -2610 -26 53.498

6 -2578.92 -26 62.605

7 -2547.84 -26 71.841

8 -2516.76 -26 81.206

9 -2485.68 -26 90.701

10 -2454.6 -26 100.325

11 -2423.52 -26 110.079

12 -2392.44 -26 119.964

13 -2361.36 -26 129.978

14 -2330.28 -26 140.122

15 -2299.2 -26 150.397

16 -2268.12 -26 160.803

17 -2237.04 -26 171.339

18 -2205.96 -26 182.007

19 -2174.88 -26 192.805

20 -2143.8 -26 203.735

21 -2112.72 -26 214.796

22 -2081.64 -26 225.989

23 -2050.56 -26 237.313

24 -2019.48 -26 248.77

25	-1988.4	-26	260.358
26	-1957.32	-26	272.079
27	-1926.24	-26	283.933
28	-1895.16	-26	295.919
29	-1864.08	-26	308.039
30	-1833	-26	320.291
31	-1817.75	-26	326.537
32	-1770	-26	346.316
33	-1740	-26	359.097
34	-1710	-26	372.121
35	-1680	-26	385.385
36	-1650	-26	399
37	-1620	-26	387.387
38	-1590	-26	376.053
39	-1560	-26	364.998
40	-1530	-26	354.17
41	-1500	-26	343.567
42	-1470	-26	333.186
43	-1440	-26	323.026
44	-1410	-26	313.085
45	-1380	-26	303.363
46	-1350	-26	293.859
47	-1320	-26	284.572
48	-1290	-26	275.502
49	-1260	-26	266.648
50	-1230	-26	258.01
51	-1200	-26	249.588
52	-1170	-26	241.38
53	-1140	-26	233.386
54	-1110	-26	225.605

55	-1080	-26	218.037
56	-1050	-26	210.681
57	-1020	-26	203.538
58	-990	-26	196.605
59	-960	-26	189.884
60	-930	-26	183.374
61	-900	-26	177.075
62	-870	-26	170.986
63	-840	-26	165.106
64	-810	-26	159.437
65	-780	-26	153.976
66	-750	-26	148.725
67	-720	-26	143.683
68	-690	-26	138.849
69	-660	-26	134.223
70	-630	-26	129.805
71	-600	-26	125.594
72	-570	-26	121.59
73	-540	-26	117.793
74	-510	-26	114.203
75	-480	-26	110.818
76	-450	-26	107.64
77	-420	-26	104.667
78	-390	-26	101.9
79	-360	-26	99.339
80	-330	-26	96.983
81	-300	-26	94.832
82	-270	-26	92.887
83	-240	-26	91.147
84	-210	-26	89.612

85	-180	-26	88.281
86	-150	-26	87.156
87	-120	-26	86.235
88	-90	-26	85.519
89	-60	-26	85.008
90	-30	-26	84.702
91	0	-26	84.6
92	30	-26	84.703
93	60	-26	85.01
94	90	-26	85.523
95	120	-26	86.24
96	150	-26	87.161
97	180	-26	88.288
98	210	-26	89.619
99	240	-26	91.155
100	270	-26	92.897
101	300	-26	94.843
102	330	-26	96.995
103	360	-26	99.351
104	390	-26	101.914
105	420	-26	104.682
106	450	-26	107.655
107	480	-26	110.835
108	510	-26	114.22
109	540	-26	117.812
110	570	-26	121.61
111	600	-26	125.615
112	630	-26	129.827
113	660	-26	134.246
114	690	-26	138.872

115	720	-26	143.707
116	750	-26	148.75
117	780	-26	154.002
118	810	-26	159.463
119	840	-26	165.133
120	870	-26	171.013
121	900	-26	177.103
122	930	-26	183.403
123	960	-26	189.913
124	990	-26	196.634
125	1020	-26	203.566
126	1050	-26	210.71
127	1080	-26	218.066
128	1110	-26	225.634
129	1140	-26	233.414
130	1170	-26	241.408
131	1200	-26	249.615
132	1230	-26	258.037
133	1260	-26	266.674
134	1290	-26	275.527
135	1320	-26	284.596
136	1350	-26	293.882
137	1380	-26	303.385
138	1410	-26	313.105
139	1440	-26	323.045
140	1470	-26	333.203
141	1500	-26	343.582
142	1530	-26	354.182
143	1560	-26	365.008
144	1590	-26	376.06

145	1620	-26	387.39
146	1650	-26	399
147	1680	-26	386.124
148	1710	-26	373.599
149	1740	-26	361.318
150	1770	-26	349.269
151	1817.75	-26	330.661
152	1833	-26	324.785
153	1862.857	-26	313.737
154	1892.714	-26	302.809
155	1922.571	-26	292.002
156	1952.429	-26	281.316
157	1982.286	-26	270.751
158	2012.143	-26	260.307
159	2042	-26	249.982
160	2071.857	-26	239.778
161	2101.714	-26	229.694
162	2131.571	-26	219.73
163	2161.429	-26	209.885
164	2191.286	-26	200.161
165	2221.143	-26	190.555
166	2251	-26	181.069
167	2280.857	-26	171.703
168	2310.714	-26	162.455
169	2340.571	-26	153.326
170	2370.429	-26	144.316
171	2400.286	-26	135.425
172	2430.143	-26	126.652
173	2460	-26	117.998
174	2480.13	-26	105.03

```
* *egroup 2: cavi y=+26 m
175 -2630.18 26 40.397
176 -2610 26 53.498
177 -2578.92 26 62.605
178 -2547.84 26 71.841
179 -2516.76 26 81.206
180 -2485.68 26 90.701
181 -2454.6 26 100.325
182 -2423.52 26 110.079
183 -2392.44 26 119.964
184 -2361.36 26 129.978
185 -2330.28 26 140.122
186 -2299.2 26 150.397
187 -2268.12 26 160.803
188 -2237.04 26 171.339
189 -2205.96 26 182.007
190 -2174.88 26 192.805
191 -2143.8 26 203.735
192 -2112.72 26 214.796
193 -2081.64 26 225.989
194 -2050.56 26 237.313
195 -2019.48 26 248.77
196 -1988.4 26 260.358
197 -1957.32 26 272.079
198 -1926.24 26 283.933
199 -1895.16 26 295.919
200 -1864.08 26 308.039
201 -1833 26 320.291
202 -1817.75 26 326.537
203 -1770 26 346.316
```


204	-1740	26	359.097
205	-1710	26	372.121
206	-1680	26	385.385
207	-1650	26	399
208	-1620	26	387.387
209	-1590	26	376.053
210	-1560	26	364.998
211	-1530	26	354.17
212	-1500	26	343.567
213	-1470	26	333.186
214	-1440	26	323.026
215	-1410	26	313.085
216	-1380	26	303.363
217	-1350	26	293.859
218	-1320	26	284.572
219	-1290	26	275.502
220	-1260	26	266.648
221	-1230	26	258.01
222	-1200	26	249.588
223	-1170	26	241.38
224	-1140	26	233.386
225	-1110	26	225.605
226	-1080	26	218.037
227	-1050	26	210.681
228	-1020	26	203.538
229	-990	26	196.605
230	-960	26	189.884
231	-930	26	183.374
232	-900	26	177.075
233	-870	26	170.986

234	-840	26	165.106
235	-810	26	159.437
236	-780	26	153.976
237	-750	26	148.725
238	-720	26	143.683
239	-690	26	138.849
240	-660	26	134.223
241	-630	26	129.805
242	-600	26	125.594
243	-570	26	121.59
244	-540	26	117.793
245	-510	26	114.203
246	-480	26	110.818
247	-450	26	107.64
248	-420	26	104.667
249	-390	26	101.9
250	-360	26	99.339
251	-330	26	96.983
252	-300	26	94.832
253	-270	26	92.887
254	-240	26	91.147
255	-210	26	89.612
256	-180	26	88.281
257	-150	26	87.156
258	-120	26	86.235
259	-90	26	85.519
260	-60	26	85.008
261	-30	26	84.702
262	0	26	84.6
263	30	26	84.703

264	60	26	85.01
265	90	26	85.523
266	120	26	86.24
267	150	26	87.161
268	180	26	88.288
269	210	26	89.619
270	240	26	91.155
271	270	26	92.897
272	300	26	94.843
273	330	26	96.995
274	360	26	99.351
275	390	26	101.914
276	420	26	104.682
277	450	26	107.655
278	480	26	110.835
279	510	26	114.22
280	540	26	117.812
281	570	26	121.61
282	600	26	125.615
283	630	26	129.827
284	660	26	134.246
285	690	26	138.872
286	720	26	143.707
287	750	26	148.75
288	780	26	154.002
289	810	26	159.463
290	840	26	165.133
291	870	26	171.013
292	900	26	177.103
293	930	26	183.403

294	960	26	189.913
295	990	26	196.634
296	1020	26	203.566
297	1050	26	210.71
298	1080	26	218.066
299	1110	26	225.634
300	1140	26	233.414
301	1170	26	241.408
302	1200	26	249.615
303	1230	26	258.037
304	1260	26	266.674
305	1290	26	275.527
306	1320	26	284.596
307	1350	26	293.882
308	1380	26	303.385
309	1410	26	313.105
310	1440	26	323.045
311	1470	26	333.203
312	1500	26	343.582
313	1530	26	354.182
314	1560	26	365.008
315	1590	26	376.06
316	1620	26	387.39
317	1650	26	399
318	1680	26	386.124
319	1710	26	373.599
320	1740	26	361.318
321	1770	26	349.269
322	1817.75	26	330.661
323	1833	26	324.785

324	1862.857	26	313.737
325	1892.714	26	302.809
326	1922.571	26	292.002
327	1952.429	26	281.316
328	1982.286	26	270.751
329	2012.143	26	260.307
330	2042 26		249.982
331	2071.857	26	239.778
332	2101.714	26	229.694
333	2131.571	26	219.73
334	2161.429	26	209.885
335	2191.286	26	200.161
336	2221.143	26	190.555
337	2251 26		181.069
338	2280.857	26	171.703
339	2310.714	26	162.455
340	2340.571	26	153.326
341	2370.429	26	144.316
342	2400.286	26	135.425
343	2430.143	26	126.652
344	2460 26		117.998
345	2480.13	26	105.03

* *egroup 5: cassoni stradali y<0

*	346	-1819.75	-18.642	53.924
*	347	-1819.25	-18.642	53.932
*	348	-1818.75	-18.642	53.939
*	349	-1818.25	-18.642	53.947
	350	-1817.75	-18.642	53.954
	351	-1805.812	-18.642	54.133
	352	-1793.875	-18.642	54.312

353	-1781.938	-18.642	54.491
354	-1770	-18.653	54.756
355	-1770	-18.642	54.67
356	-1762.5	-18.653	54.869
357	-1755	-18.653	54.981
358	-1747.5	-18.653	55.094
359	-1740	-18.653	55.206
360	-1732.5	-18.653	55.319
361	-1725	-18.653	55.431
362	-1717.5	-18.653	55.544
363	-1710	-18.665	55.55
364	-1710	-18.653	55.656
365	-1702.5	-18.665	55.662
366	-1695	-18.665	55.775
367	-1687.5	-18.665	55.887
368	-1680	-18.665	56
369	-1679.25	-18.665	56.011
370	-1678.5	-18.665	56.022
371	-1677.75	-18.665	56.034
372	-1677	-18.665	56.045
373	-1677	-18.642	56.065
374	-1672.5	-18.642	56.133
375	-1668	-18.642	56.2
376	-1663.5	-18.642	56.268
377	-1659	-18.642	56.335
378	-1654.5	-18.642	56.403
379	-1650	-18.642	56.47
380	-1645.5	-18.642	56.538
381	-1641	-18.642	56.605
382	-1636.5	-18.642	56.673

383	-1632	-18.642	56.74
384	-1627.5	-18.642	56.808
385	-1623	-18.665	56.855
386	-1623	-18.642	56.875
387	-1622.25	-18.665	56.866
388	-1621.5	-18.665	56.877
389	-1620.75	-18.665	56.889
390	-1620	-18.665	56.9
391	-1612.5	-18.665	57.012
392	-1605	-18.665	57.125
393	-1597.5	-18.665	57.237
394	-1590	-18.665	57.35
395	-1590	-18.64	57.353
396	-1582.5	-18.64	57.466
397	-1575	-18.64	57.578
398	-1567.5	-18.64	57.691
399	-1560	-18.64	57.803
400	-1552.5	-18.64	57.916
401	-1545	-18.64	58.028
402	-1537.5	-18.64	58.141
403	-1530	-18.64	58.253
404	-1522.5	-18.64	58.366
405	-1515	-18.64	58.478
406	-1507.5	-18.64	58.591
407	-1500	-18.653	58.806
408	-1500	-18.64	58.703
409	-1492.5	-18.653	58.918
410	-1485	-18.653	59.031
411	-1477.5	-18.653	59.143
412	-1470	-18.653	59.256

413	-1462.5	-18.653	59.368
414	-1455	-18.653	59.481
415	-1447.5	-18.653	59.593
416	-1440	-18.653	59.706
417	-1432.5	-18.653	59.818
418	-1425	-18.653	59.931
419	-1417.5	-18.653	60.043
420	-1410	-18.653	60.156
421	-1402.5	-18.653	60.268
422	-1395	-18.653	60.381
423	-1387.5	-18.653	60.493
424	-1380	-18.653	60.606
425	-1372.5	-18.653	60.718
426	-1365	-18.653	60.831
427	-1357.5	-18.653	60.943
428	-1350	-18.653	61.056
429	-1342.5	-18.653	61.168
430	-1335	-18.653	61.28
431	-1327.5	-18.653	61.393
432	-1320	-18.653	61.505
433	-1312.5	-18.653	61.618
434	-1305	-18.653	61.73
435	-1297.5	-18.653	61.843
436	-1290	-18.653	61.955
437	-1282.5	-18.653	62.068
438	-1275	-18.653	62.18
439	-1267.5	-18.653	62.293
440	-1260	-18.653	62.405
441	-1252.5	-18.653	62.518
442	-1245	-18.653	62.63

443	-1237.5	-18.653	62.743
444	-1230	-18.653	62.855
445	-1222.5	-18.653	62.968
446	-1215	-18.653	63.08
447	-1207.5	-18.653	63.193
448	-1200	-18.653	63.305
449	-1192.5	-18.653	63.418
450	-1185	-18.653	63.53
451	-1177.5	-18.653	63.643
452	-1170	-18.653	63.755
453	-1162.5	-18.653	63.868
454	-1155	-18.653	63.98
455	-1147.5	-18.653	64.093
456	-1140	-18.653	64.205
457	-1132.5	-18.653	64.318
458	-1125	-18.653	64.43
459	-1117.5	-18.653	64.543
460	-1110	-18.653	64.655
461	-1102.5	-18.653	64.768
462	-1095	-18.653	64.88
463	-1087.5	-18.653	64.993
464	-1080	-18.653	65.105
465	-1072.5	-18.653	65.218
466	-1065	-18.653	65.33
467	-1057.5	-18.653	65.443
468	-1050	-18.653	65.555
469	-1042.5	-18.653	65.667
470	-1035	-18.653	65.78
471	-1027.5	-18.653	65.892
472	-1020	-18.653	66.005

473	-1012.5	-18.653	66.117
474	-1005	-18.653	66.23
475	-997.5	-18.653	66.342
476	-990	-18.653	66.455
477	-982.5	-18.653	66.567
478	-975	-18.653	66.68
479	-967.5	-18.653	66.792
480	-960	-18.653	66.905
481	-952.5	-18.653	67.017
482	-945	-18.653	67.13
483	-937.5	-18.653	67.242
484	-930	-18.653	67.355
485	-922.5	-18.653	67.467
486	-915	-18.653	67.58
487	-907.5	-18.653	67.692
488	-900	-18.653	67.805
489	-892.5	-18.653	67.917
490	-885	-18.653	68.03
491	-877.5	-18.653	68.142
492	-870	-18.653	68.255
493	-862.5	-18.653	68.367
494	-855	-18.653	68.48
495	-847.5	-18.653	68.592
496	-840	-18.653	68.705
497	-832.5	-18.653	68.817
498	-825	-18.653	68.93
499	-817.5	-18.653	69.042
500	-810	-18.653	69.155
501	-802.5	-18.653	69.267
502	-795	-18.653	69.38

503	-787.5	-18.653	69.492
504	-780	-18.653	69.605
505	-772.5	-18.653	69.717
506	-765	-18.653	69.83
507	-757.5	-18.653	69.942
508	-750	-18.653	70.054
509	-742.5	-18.653	70.167
510	-735	-18.653	70.279
511	-727.5	-18.653	70.392
512	-720	-18.653	70.504
513	-712.5	-18.653	70.617
514	-705	-18.653	70.729
515	-697.5	-18.653	70.842
516	-690	-18.653	70.954
517	-682.5	-18.653	71.067
518	-675	-18.653	71.179
519	-667.5	-18.653	71.292
520	-660	-18.653	71.404
521	-652.5	-18.653	71.517
522	-645	-18.653	71.629
523	-637.5	-18.653	71.742
524	-630	-18.658	71.886
525	-630	-18.653	71.854
526	-622.5	-18.658	71.999
527	-615	-18.658	72.111
528	-607.5	-18.658	72.224
529	-600	-18.658	72.336
530	-592.5	-18.658	72.449
531	-585	-18.658	72.561
532	-577.5	-18.658	72.674

533	-570	-18.658	72.786
534	-562.5	-18.658	72.899
535	-555	-18.658	73.011
536	-547.5	-18.658	73.124
537	-540	-18.658	73.236
538	-532.5	-18.658	73.349
539	-525	-18.658	73.461
540	-517.5	-18.658	73.574
541	-510	-18.658	73.686
542	-502.5	-18.658	73.799
543	-495	-18.658	73.911
544	-487.5	-18.658	74.024
545	-480	-18.658	74.136
546	-472.5	-18.658	74.249
547	-465	-18.658	74.361
548	-457.5	-18.658	74.473
549	-450	-18.658	74.586
550	-442.5	-18.658	74.698
551	-435	-18.658	74.807
552	-427.5	-18.658	74.915
553	-420	-18.658	75.021
554	-412.5	-18.658	75.125
555	-405	-18.658	75.227
556	-397.5	-18.658	75.327
557	-390	-18.658	75.426
558	-382.5	-18.658	75.522
559	-375	-18.658	75.617
560	-367.5	-18.658	75.71
561	-360	-18.658	75.801
562	-352.5	-18.658	75.89

563	-345	-18.658	75.977
564	-337.5	-18.658	76.062
565	-330	-18.658	76.146
566	-322.5	-18.658	76.227
567	-315	-18.658	76.307
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569	-300	-18.658	76.461
570	-292.5	-18.658	76.535
571	-285	-18.658	76.607
572	-277.5	-18.658	76.677
573	-270	-18.658	76.746
574	-262.5	-18.658	76.812
575	-255	-18.658	76.877
576	-247.5	-18.658	76.94
577	-240	-18.658	77.001
578	-232.5	-18.658	77.06
579	-225	-18.658	77.117
580	-217.5	-18.658	77.172
581	-210	-18.658	77.226
582	-202.5	-18.658	77.277
583	-195	-18.658	77.327
584	-187.5	-18.658	77.375
585	-180	-18.658	77.421
586	-172.5	-18.658	77.465
587	-165	-18.658	77.507
588	-157.5	-18.658	77.547
589	-150	-18.658	77.585
590	-142.5	-18.658	77.622
591	-135	-18.658	77.657
592	-127.5	-18.658	77.69

593	-120	-18.658	77.72
594	-112.5	-18.658	77.749
595	-105	-18.658	77.777
596	-97.5	-18.658	77.802
597	-90	-18.658	77.825
598	-82.5	-18.658	77.847
599	-75	-18.658	77.867
600	-67.5	-18.658	77.884
601	-60	-18.658	77.9
602	-52.5	-18.658	77.914
603	-45	-18.658	77.927
604	-37.5	-18.658	77.937
605	-30	-18.658	77.945
606	-22.5	-18.658	77.952
607	-15	-18.658	77.957
608	-7.5	-18.658	77.959
609	0	-18.658	77.96
610	7.5	-18.658	77.959
611	15	-18.658	77.956
612	22.5	-18.658	77.952
613	30	-18.658	77.945
614	37.5	-18.658	77.937
615	45	-18.658	77.926
616	52.5	-18.658	77.914
617	60	-18.658	77.9
618	67.5	-18.658	77.884
619	75	-18.658	77.866
620	82.5	-18.658	77.847
621	90	-18.658	77.825
622	97.5	-18.658	77.802

623	105	-18.658	77.776
624	112.5	-18.658	77.749
625	120	-18.658	77.72
626	127.5	-18.658	77.689
627	135	-18.658	77.656
628	142.5	-18.658	77.622
629	150	-18.658	77.585
630	157.5	-18.658	77.547
631	165	-18.658	77.506
632	172.5	-18.658	77.464
633	180	-18.658	77.42
634	187.5	-18.658	77.374
635	195	-18.658	77.326
636	202.5	-18.658	77.276
637	210	-18.658	77.225
638	217.5	-18.658	77.171
639	225	-18.658	77.116
640	232.5	-18.658	77.059
641	240	-18.658	77
642	247.5	-18.658	76.939
643	255	-18.658	76.876
644	262.5	-18.658	76.811
645	270	-18.658	76.745
646	277.5	-18.658	76.676
647	285	-18.658	76.607
648	292.5	-18.658	76.538
649	300	-18.658	76.469
650	307.5	-18.658	76.399
651	315	-18.658	76.33
652	322.5	-18.658	76.261

653	330	-18.658	76.192
654	337.5	-18.658	76.122
655	345	-18.658	76.053
656	352.5	-18.658	75.984
657	360	-18.658	75.915
658	367.5	-18.658	75.845
659	375	-18.658	75.776
660	382.5	-18.658	75.707
661	390	-18.658	75.638
662	397.5	-18.658	75.569
663	405	-18.658	75.499
664	412.5	-18.658	75.43
665	420	-18.658	75.361
666	427.5	-18.658	75.292
667	435	-18.658	75.222
668	442.5	-18.658	75.153
669	450	-18.658	75.084
670	457.5	-18.658	75.015
671	465	-18.658	74.945
672	472.5	-18.658	74.876
673	480	-18.658	74.807
674	487.5	-18.658	74.738
675	495	-18.658	74.668
676	502.5	-18.658	74.599
677	510	-18.658	74.53
678	517.5	-18.658	74.461
679	525	-18.658	74.391
680	532.5	-18.658	74.322
681	540	-18.658	74.253
682	547.5	-18.658	74.184

683	555	-18.658	74.115
684	562.5	-18.658	74.045
685	570	-18.658	73.976
686	577.5	-18.658	73.907
687	585	-18.658	73.838
688	592.5	-18.658	73.768
689	600	-18.658	73.699
690	607.5	-18.658	73.63
691	615	-18.658	73.561
692	622.5	-18.658	73.491
693	630	-18.658	73.422
694	630	-18.653	73.39
695	637.5	-18.653	73.321
696	645	-18.653	73.252
697	652.5	-18.653	73.182
698	660	-18.653	73.113
699	667.5	-18.653	73.044
700	675	-18.653	72.975
701	682.5	-18.653	72.905
702	690	-18.653	72.836
703	697.5	-18.653	72.767
704	705	-18.653	72.698
705	712.5	-18.653	72.629
706	720	-18.653	72.559
707	727.5	-18.653	72.49
708	735	-18.653	72.421
709	742.5	-18.653	72.352
710	750	-18.653	72.282
711	757.5	-18.653	72.213
712	765	-18.653	72.144

713	772.5	-18.653	72.075
714	780	-18.653	72.005
715	787.5	-18.653	71.936
716	795	-18.653	71.867
717	802.5	-18.653	71.798
718	810	-18.653	71.728
719	817.5	-18.653	71.659
720	825	-18.653	71.59
721	832.5	-18.653	71.521
722	840	-18.653	71.451
723	847.5	-18.653	71.382
724	855	-18.653	71.313
725	862.5	-18.653	71.244
726	870	-18.653	71.175
727	877.5	-18.653	71.105
728	885	-18.653	71.036
729	892.5	-18.653	70.967
730	900	-18.653	70.898
731	907.5	-18.653	70.828
732	915	-18.653	70.759
733	922.5	-18.653	70.69
734	930	-18.653	70.621
735	937.5	-18.653	70.551
736	945	-18.653	70.482
737	952.5	-18.653	70.413
738	960	-18.653	70.344
739	967.5	-18.653	70.274
740	975	-18.653	70.205
741	982.5	-18.653	70.136
742	990	-18.653	70.067

743	997.5	-18.653	69.997
744	1005	-18.653	69.928
745	1012.5	-18.653	69.859
746	1020	-18.653	69.79
747	1027.5	-18.653	69.721
748	1035	-18.653	69.651
749	1042.5	-18.653	69.582
750	1050	-18.653	69.513
751	1057.5	-18.653	69.444
752	1065	-18.653	69.374
753	1072.5	-18.653	69.305
754	1080	-18.653	69.236
755	1087.5	-18.653	69.167
756	1095	-18.653	69.097
757	1102.5	-18.653	69.028
758	1110	-18.653	68.959
759	1117.5	-18.653	68.89
760	1125	-18.653	68.82
761	1132.5	-18.653	68.751
762	1140	-18.653	68.682
763	1147.5	-18.653	68.613
764	1155	-18.653	68.543
765	1162.5	-18.653	68.474
766	1170	-18.653	68.405
767	1177.5	-18.653	68.336
768	1185	-18.653	68.266
769	1192.5	-18.653	68.197
770	1200	-18.653	68.128
771	1207.5	-18.653	68.059
772	1215	-18.653	67.99

773	1222.5	-18.653	67.92
774	1230	-18.653	67.851
775	1237.5	-18.653	67.782
776	1245	-18.653	67.713
777	1252.5	-18.653	67.643
778	1260	-18.653	67.574
779	1267.5	-18.653	67.505
780	1275	-18.653	67.436
781	1282.5	-18.653	67.366
782	1290	-18.653	67.297
783	1297.5	-18.653	67.228
784	1305	-18.653	67.159
785	1312.5	-18.653	67.089
786	1320	-18.653	67.02
787	1327.5	-18.653	66.951
788	1335	-18.653	66.882
789	1342.5	-18.653	66.812
790	1350	-18.653	66.743
791	1357.5	-18.653	66.674
792	1365	-18.653	66.605
793	1372.5	-18.653	66.536
794	1380	-18.653	66.466
795	1387.5	-18.653	66.397
796	1395	-18.653	66.328
797	1402.5	-18.653	66.259
798	1410	-18.653	66.189
799	1417.5	-18.653	66.12
800	1425	-18.653	66.051
801	1432.5	-18.653	65.982
802	1440	-18.653	65.912

803	1447.5	-18.653	65.843
804	1455	-18.653	65.774
805	1462.5	-18.653	65.705
806	1470	-18.653	65.635
807	1477.5	-18.653	65.566
808	1485	-18.653	65.497
809	1492.5	-18.653	65.428
810	1500	-18.653	65.358
811	1500	-18.64	65.256
812	1507.5	-18.64	65.187
813	1515	-18.64	65.117
814	1522.5	-18.64	65.048
815	1530	-18.64	64.979
816	1537.5	-18.64	64.91
817	1545	-18.64	64.841
818	1552.5	-18.64	64.771
819	1560	-18.64	64.702
820	1567.5	-18.64	64.633
821	1575	-18.64	64.564
822	1582.5	-18.64	64.494
823	1590	-18.665	64.422
824	1590	-18.64	64.425
825	1597.5	-18.665	64.352
826	1605	-18.665	64.283
827	1612.5	-18.665	64.214
828	1620	-18.665	64.145
829	1620.75	-18.665	64.138
830	1621.5	-18.665	64.131
831	1622.25	-18.665	64.124
832	1623	-18.665	64.117

833	1623	-18.642	64.137
834	1627.5	-18.642	64.096
835	1632	-18.642	64.054
836	1636.5	-18.642	64.012
837	1641	-18.642	63.971
838	1645.5	-18.642	63.929
839	1650	-18.642	63.888
840	1654.5	-18.642	63.846
841	1659	-18.642	63.805
842	1663.5	-18.642	63.763
843	1668	-18.642	63.722
844	1672.5	-18.642	63.68
845	1677	-18.665	63.618
846	1677	-18.642	63.639
847	1677.75	-18.665	63.611
848	1678.5	-18.665	63.604
849	1679.25	-18.665	63.598
850	1680	-18.665	63.591
851	1687.5	-18.665	63.521
852	1695	-18.665	63.452
853	1702.5	-18.665	63.383
854	1710	-18.665	63.314
855	1710	-18.653	63.42
856	1717.5	-18.653	63.351
857	1725	-18.653	63.281
858	1732.5	-18.653	63.212
859	1740	-18.653	63.143
860	1747.5	-18.653	63.074
861	1755	-18.653	63.004
862	1762.5	-18.653	62.935

863	1770	-18.653	62.866
864	1770	-18.642	62.78
865	1781.938	-18.642	62.67
866	1793.875	-18.642	62.56
867	1805.812	-18.642	62.449
868	1817.75	-18.642	62.339
*	869	1818.25	-18.642 62.335
*	870	1818.75	-18.642 62.33
*	871	1819.25	-18.642 62.325
*	872	1819.75	-18.642 62.321
*	*egroup 7: cassoni ferroviari		
873	-1856.64	0	53.637
874	-1854.54	0	53.697
875	-1850.38	0	53.757
876	-1846.38	0	53.817
877	-1842.38	0	53.672
878	-1842.38	0	53.877
879	-1840.035	0	53.708
880	-1837.69	0	53.743
881	-1835.345	0	53.778
882	-1833 0	53.813	
883	-1829.688	0	53.863
884	-1826.375	0	53.912
885	-1823.062	0	53.962
886	-1819.75	0	53.913
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888	-1819.25	0	53.92
889	-1818.75	0	53.928
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891	-1817.75	0	53.943

892	-1805.812	0	54.122
893	-1793.875	0	54.301
894	-1781.938	0	54.48
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896	-1770 0		54.739
897	-1762.5	0	54.852
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902	-1732.5	0	55.411
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1371	1622.25	0	64.163

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1384	1672.5	0	63.648
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*	*egroup 6: cassoni stradali y>0		
*	1428	-1819.75	18.642 53.924
*	1429	-1819.25	18.642 53.932
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*	1431	-1818.25	18.642	53.947
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	1459	-1659	18.642	56.335
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1462	-1645.5	18.642	56.538
1463	-1641	18.642	56.605
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1468	-1623	18.665	56.855
1469	-1622.25	18.665	56.866
1470	-1621.5	18.665	56.877
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1476	-1590	18.64	57.353
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1478	-1582.5	18.64	57.466
1479	-1575	18.64	57.578
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1481	-1560	18.64	57.803
1482	-1552.5	18.64	57.916
1483	-1545	18.64	58.028
1484	-1537.5	18.64	58.141
1485	-1530	18.64	58.253
1486	-1522.5	18.64	58.366
1487	-1515	18.64	58.478
1488	-1507.5	18.64	58.591
1489	-1500	18.64	58.703
1490	-1500	18.653	58.806

1491	-1492.5	18.653	58.918
1492	-1485	18.653	59.031
1493	-1477.5	18.653	59.143
1494	-1470	18.653	59.256
1495	-1462.5	18.653	59.368
1496	-1455	18.653	59.481
1497	-1447.5	18.653	59.593
1498	-1440	18.653	59.706
1499	-1432.5	18.653	59.818
1500	-1425	18.653	59.931
1501	-1417.5	18.653	60.043
1502	-1410	18.653	60.156
1503	-1402.5	18.653	60.268
1504	-1395	18.653	60.381
1505	-1387.5	18.653	60.493
1506	-1380	18.653	60.606
1507	-1372.5	18.653	60.718
1508	-1365	18.653	60.831
1509	-1357.5	18.653	60.943
1510	-1350	18.653	61.056
1511	-1342.5	18.653	61.168
1512	-1335	18.653	61.28
1513	-1327.5	18.653	61.393
1514	-1320	18.653	61.505
1515	-1312.5	18.653	61.618
1516	-1305	18.653	61.73
1517	-1297.5	18.653	61.843
1518	-1290	18.653	61.955
1519	-1282.5	18.653	62.068
1520	-1275	18.653	62.18

1521	-1267.5	18.653	62.293
1522	-1260	18.653	62.405
1523	-1252.5	18.653	62.518
1524	-1245	18.653	62.63
1525	-1237.5	18.653	62.743
1526	-1230	18.653	62.855
1527	-1222.5	18.653	62.968
1528	-1215	18.653	63.08
1529	-1207.5	18.653	63.193
1530	-1200	18.653	63.305
1531	-1192.5	18.653	63.418
1532	-1185	18.653	63.53
1533	-1177.5	18.653	63.643
1534	-1170	18.653	63.755
1535	-1162.5	18.653	63.868
1536	-1155	18.653	63.98
1537	-1147.5	18.653	64.093
1538	-1140	18.653	64.205
1539	-1132.5	18.653	64.318
1540	-1125	18.653	64.43
1541	-1117.5	18.653	64.543
1542	-1110	18.653	64.655
1543	-1102.5	18.653	64.768
1544	-1095	18.653	64.88
1545	-1087.5	18.653	64.993
1546	-1080	18.653	65.105
1547	-1072.5	18.653	65.218
1548	-1065	18.653	65.33
1549	-1057.5	18.653	65.443
1550	-1050	18.653	65.555

1551	-1042.5	18.653	65.667
1552	-1035	18.653	65.78
1553	-1027.5	18.653	65.892
1554	-1020	18.653	66.005
1555	-1012.5	18.653	66.117
1556	-1005	18.653	66.23
1557	-997.5	18.653	66.342
1558	-990	18.653	66.455
1559	-982.5	18.653	66.567
1560	-975	18.653	66.68
1561	-967.5	18.653	66.792
1562	-960	18.653	66.905
1563	-952.5	18.653	67.017
1564	-945	18.653	67.13
1565	-937.5	18.653	67.242
1566	-930	18.653	67.355
1567	-922.5	18.653	67.467
1568	-915	18.653	67.58
1569	-907.5	18.653	67.692
1570	-900	18.653	67.805
1571	-892.5	18.653	67.917
1572	-885	18.653	68.03
1573	-877.5	18.653	68.142
1574	-870	18.653	68.255
1575	-862.5	18.653	68.367
1576	-855	18.653	68.48
1577	-847.5	18.653	68.592
1578	-840	18.653	68.705
1579	-832.5	18.653	68.817
1580	-825	18.653	68.93

1581	-817.5	18.653	69.042
1582	-810	18.653	69.155
1583	-802.5	18.653	69.267
1584	-795	18.653	69.38
1585	-787.5	18.653	69.492
1586	-780	18.653	69.605
1587	-772.5	18.653	69.717
1588	-765	18.653	69.83
1589	-757.5	18.653	69.942
1590	-750	18.653	70.054
1591	-742.5	18.653	70.167
1592	-735	18.653	70.279
1593	-727.5	18.653	70.392
1594	-720	18.653	70.504
1595	-712.5	18.653	70.617
1596	-705	18.653	70.729
1597	-697.5	18.653	70.842
1598	-690	18.653	70.954
1599	-682.5	18.653	71.067
1600	-675	18.653	71.179
1601	-667.5	18.653	71.292
1602	-660	18.653	71.404
1603	-652.5	18.653	71.517
1604	-645	18.653	71.629
1605	-637.5	18.653	71.742
1606	-630	18.653	71.854
1607	-630	18.658	71.886
1608	-622.5	18.658	71.999
1609	-615	18.658	72.111
1610	-607.5	18.658	72.224

1611	-600	18.658	72.336
1612	-592.5	18.658	72.449
1613	-585	18.658	72.561
1614	-577.5	18.658	72.674
1615	-570	18.658	72.786
1616	-562.5	18.658	72.899
1617	-555	18.658	73.011
1618	-547.5	18.658	73.124
1619	-540	18.658	73.236
1620	-532.5	18.658	73.349
1621	-525	18.658	73.461
1622	-517.5	18.658	73.574
1623	-510	18.658	73.686
1624	-502.5	18.658	73.799
1625	-495	18.658	73.911
1626	-487.5	18.658	74.024
1627	-480	18.658	74.136
1628	-472.5	18.658	74.249
1629	-465	18.658	74.361
1630	-457.5	18.658	74.473
1631	-450	18.658	74.586
1632	-442.5	18.658	74.698
1633	-435	18.658	74.807
1634	-427.5	18.658	74.915
1635	-420	18.658	75.021
1636	-412.5	18.658	75.125
1637	-405	18.658	75.227
1638	-397.5	18.658	75.327
1639	-390	18.658	75.426
1640	-382.5	18.658	75.522

1641	-375	18.658	75.617
1642	-367.5	18.658	75.71
1643	-360	18.658	75.801
1644	-352.5	18.658	75.89
1645	-345	18.658	75.977
1646	-337.5	18.658	76.062
1647	-330	18.658	76.146
1648	-322.5	18.658	76.227
1649	-315	18.658	76.307
1650	-307.5	18.658	76.385
1651	-300	18.658	76.461
1652	-292.5	18.658	76.535
1653	-285	18.658	76.607
1654	-277.5	18.658	76.677
1655	-270	18.658	76.746
1656	-262.5	18.658	76.812
1657	-255	18.658	76.877
1658	-247.5	18.658	76.94
1659	-240	18.658	77.001
1660	-232.5	18.658	77.06
1661	-225	18.658	77.117
1662	-217.5	18.658	77.172
1663	-210	18.658	77.226
1664	-202.5	18.658	77.277
1665	-195	18.658	77.327
1666	-187.5	18.658	77.375
1667	-180	18.658	77.421
1668	-172.5	18.658	77.465
1669	-165	18.658	77.507
1670	-157.5	18.658	77.547

1671	-150	18.658	77.585
1672	-142.5	18.658	77.622
1673	-135	18.658	77.657
1674	-127.5	18.658	77.69
1675	-120	18.658	77.72
1676	-112.5	18.658	77.749
1677	-105	18.658	77.777
1678	-97.5	18.658	77.802
1679	-90	18.658	77.825
1680	-82.5	18.658	77.847
1681	-75	18.658	77.867
1682	-67.5	18.658	77.884
1683	-60	18.658	77.9
1684	-52.5	18.658	77.914
1685	-45	18.658	77.927
1686	-37.5	18.658	77.937
1687	-30	18.658	77.945
1688	-22.5	18.658	77.952
1689	-15	18.658	77.957
1690	-7.5	18.658	77.959
1691	0	18.658	77.96
1692	7.5	18.658	77.959
1693	15	18.658	77.956
1694	22.5	18.658	77.952
1695	30	18.658	77.945
1696	37.5	18.658	77.937
1697	45	18.658	77.926
1698	52.5	18.658	77.914
1699	60	18.658	77.9
1700	67.5	18.658	77.884

1701	75	18.658	77.866
1702	82.5	18.658	77.847
1703	90	18.658	77.825
1704	97.5	18.658	77.802
1705	105	18.658	77.776
1706	112.5	18.658	77.749
1707	120	18.658	77.72
1708	127.5	18.658	77.689
1709	135	18.658	77.656
1710	142.5	18.658	77.622
1711	150	18.658	77.585
1712	157.5	18.658	77.547
1713	165	18.658	77.506
1714	172.5	18.658	77.464
1715	180	18.658	77.42
1716	187.5	18.658	77.374
1717	195	18.658	77.326
1718	202.5	18.658	77.276
1719	210	18.658	77.225
1720	217.5	18.658	77.171
1721	225	18.658	77.116
1722	232.5	18.658	77.059
1723	240	18.658	77
1724	247.5	18.658	76.939
1725	255	18.658	76.876
1726	262.5	18.658	76.811
1727	270	18.658	76.745
1728	277.5	18.658	76.676
1729	285	18.658	76.607
1730	292.5	18.658	76.538

1731	300	18.658	76.469
1732	307.5	18.658	76.399
1733	315	18.658	76.33
1734	322.5	18.658	76.261
1735	330	18.658	76.192
1736	337.5	18.658	76.122
1737	345	18.658	76.053
1738	352.5	18.658	75.984
1739	360	18.658	75.915
1740	367.5	18.658	75.845
1741	375	18.658	75.776
1742	382.5	18.658	75.707
1743	390	18.658	75.638
1744	397.5	18.658	75.569
1745	405	18.658	75.499
1746	412.5	18.658	75.43
1747	420	18.658	75.361
1748	427.5	18.658	75.292
1749	435	18.658	75.222
1750	442.5	18.658	75.153
1751	450	18.658	75.084
1752	457.5	18.658	75.015
1753	465	18.658	74.945
1754	472.5	18.658	74.876
1755	480	18.658	74.807
1756	487.5	18.658	74.738
1757	495	18.658	74.668
1758	502.5	18.658	74.599
1759	510	18.658	74.53
1760	517.5	18.658	74.461

1761	525	18.658	74.391
1762	532.5	18.658	74.322
1763	540	18.658	74.253
1764	547.5	18.658	74.184
1765	555	18.658	74.115
1766	562.5	18.658	74.045
1767	570	18.658	73.976
1768	577.5	18.658	73.907
1769	585	18.658	73.838
1770	592.5	18.658	73.768
1771	600	18.658	73.699
1772	607.5	18.658	73.63
1773	615	18.658	73.561
1774	622.5	18.658	73.491
1775	630	18.653	73.39
1776	630	18.658	73.422
1777	637.5	18.653	73.321
1778	645	18.653	73.252
1779	652.5	18.653	73.182
1780	660	18.653	73.113
1781	667.5	18.653	73.044
1782	675	18.653	72.975
1783	682.5	18.653	72.905
1784	690	18.653	72.836
1785	697.5	18.653	72.767
1786	705	18.653	72.698
1787	712.5	18.653	72.629
1788	720	18.653	72.559
1789	727.5	18.653	72.49
1790	735	18.653	72.421

1791	742.5	18.653	72.352
1792	750	18.653	72.282
1793	757.5	18.653	72.213
1794	765	18.653	72.144
1795	772.5	18.653	72.075
1796	780	18.653	72.005
1797	787.5	18.653	71.936
1798	795	18.653	71.867
1799	802.5	18.653	71.798
1800	810	18.653	71.728
1801	817.5	18.653	71.659
1802	825	18.653	71.59
1803	832.5	18.653	71.521
1804	840	18.653	71.451
1805	847.5	18.653	71.382
1806	855	18.653	71.313
1807	862.5	18.653	71.244
1808	870	18.653	71.175
1809	877.5	18.653	71.105
1810	885	18.653	71.036
1811	892.5	18.653	70.967
1812	900	18.653	70.898
1813	907.5	18.653	70.828
1814	915	18.653	70.759
1815	922.5	18.653	70.69
1816	930	18.653	70.621
1817	937.5	18.653	70.551
1818	945	18.653	70.482
1819	952.5	18.653	70.413
1820	960	18.653	70.344

1821	967.5	18.653	70.274
1822	975	18.653	70.205
1823	982.5	18.653	70.136
1824	990	18.653	70.067
1825	997.5	18.653	69.997
1826	1005	18.653	69.928
1827	1012.5	18.653	69.859
1828	1020	18.653	69.79
1829	1027.5	18.653	69.721
1830	1035	18.653	69.651
1831	1042.5	18.653	69.582
1832	1050	18.653	69.513
1833	1057.5	18.653	69.444
1834	1065	18.653	69.374
1835	1072.5	18.653	69.305
1836	1080	18.653	69.236
1837	1087.5	18.653	69.167
1838	1095	18.653	69.097
1839	1102.5	18.653	69.028
1840	1110	18.653	68.959
1841	1117.5	18.653	68.89
1842	1125	18.653	68.82
1843	1132.5	18.653	68.751
1844	1140	18.653	68.682
1845	1147.5	18.653	68.613
1846	1155	18.653	68.543
1847	1162.5	18.653	68.474
1848	1170	18.653	68.405
1849	1177.5	18.653	68.336
1850	1185	18.653	68.266

1851	1192.5	18.653	68.197
1852	1200	18.653	68.128
1853	1207.5	18.653	68.059
1854	1215	18.653	67.99
1855	1222.5	18.653	67.92
1856	1230	18.653	67.851
1857	1237.5	18.653	67.782
1858	1245	18.653	67.713
1859	1252.5	18.653	67.643
1860	1260	18.653	67.574
1861	1267.5	18.653	67.505
1862	1275	18.653	67.436
1863	1282.5	18.653	67.366
1864	1290	18.653	67.297
1865	1297.5	18.653	67.228
1866	1305	18.653	67.159
1867	1312.5	18.653	67.089
1868	1320	18.653	67.02
1869	1327.5	18.653	66.951
1870	1335	18.653	66.882
1871	1342.5	18.653	66.812
1872	1350	18.653	66.743
1873	1357.5	18.653	66.674
1874	1365	18.653	66.605
1875	1372.5	18.653	66.536
1876	1380	18.653	66.466
1877	1387.5	18.653	66.397
1878	1395	18.653	66.328
1879	1402.5	18.653	66.259
1880	1410	18.653	66.189

1881	1417.5	18.653	66.12
1882	1425	18.653	66.051
1883	1432.5	18.653	65.982
1884	1440	18.653	65.912
1885	1447.5	18.653	65.843
1886	1455	18.653	65.774
1887	1462.5	18.653	65.705
1888	1470	18.653	65.635
1889	1477.5	18.653	65.566
1890	1485	18.653	65.497
1891	1492.5	18.653	65.428
1892	1500	18.64	65.256
1893	1500	18.653	65.358
1894	1507.5	18.64	65.187
1895	1515	18.64	65.117
1896	1522.5	18.64	65.048
1897	1530	18.64	64.979
1898	1537.5	18.64	64.91
1899	1545	18.64	64.841
1900	1552.5	18.64	64.771
1901	1560	18.64	64.702
1902	1567.5	18.64	64.633
1903	1575	18.64	64.564
1904	1582.5	18.64	64.494
1905	1590	18.64	64.425
1906	1590	18.665	64.422
1907	1597.5	18.665	64.352
1908	1605	18.665	64.283
1909	1612.5	18.665	64.214
1910	1620	18.665	64.145

1911	1620.75	18.665	64.138
1912	1621.5	18.665	64.131
1913	1622.25	18.665	64.124
1914	1623	18.642	64.137
1915	1623	18.665	64.117
1916	1627.5	18.642	64.096
1917	1632	18.642	64.054
1918	1636.5	18.642	64.012
1919	1641	18.642	63.971
1920	1645.5	18.642	63.929
1921	1650	18.642	63.888
1922	1654.5	18.642	63.846
1923	1659	18.642	63.805
1924	1663.5	18.642	63.763
1925	1668	18.642	63.722
1926	1672.5	18.642	63.68
1927	1677	18.642	63.639
1928	1677	18.665	63.618
1929	1677.75	18.665	63.611
1930	1678.5	18.665	63.604
1931	1679.25	18.665	63.598
1932	1680	18.665	63.591
1933	1687.5	18.665	63.521
1934	1695	18.665	63.452
1935	1702.5	18.665	63.383
1936	1710	18.653	63.42
1937	1710	18.665	63.314
1938	1717.5	18.653	63.351
1939	1725	18.653	63.281
1940	1732.5	18.653	63.212

1941	1740	18.653	63.143
1942	1747.5	18.653	63.074
1943	1755	18.653	63.004
1944	1762.5	18.653	62.935
1945	1770	18.642	62.78
1946	1770	18.653	62.866
1947	1781.938	18.642	62.67
1948	1793.875	18.642	62.56
1949	1805.812	18.642	62.449
1950	1817.75	18.642	62.339
*	1951	1818.25	18.642 62.335
*	1952	1818.75	18.642 62.33
*	1953	1819.25	18.642 62.325
*	1954	1819.75	18.642 62.321
*	*egroup 8: traversi		
1955	-1817.75	-24.776	53.662
1956	-1817.75	-21.526	53.662
1957	-1817.75	-18.276	53.662
1958	-1817.75	-16.888	53.662
1959	-1817.75	-15.5	53.662
1960	-1817.75	-11.625	53.662
1961	-1817.75	-7.75	53.662
1962	-1817.75	-3.875	53.662
1963	-1817.75	0	53.662
1964	-1817.75	3.875	53.662
1965	-1817.75	7.75	53.662
1966	-1817.75	11.625	53.662
1967	-1817.75	15.5	53.662
1968	-1817.75	16.888	53.662
1969	-1817.75	18.276	53.662

1970	-1817.75	21.526	53.662
1971	-1817.75	24.776	53.662
1972	-1770	-24.986	54.778
1973	-1770	-21.631	54.522
1974	-1770	-18.276	54.264
1975	-1770	-15.028	54.012
1976	-1770	-11.781	53.758
1977	-1770	-5.89	53.56
1978	-1770	0	53.62
1979	-1770	5.89	53.56
1980	-1770	11.781	53.758
1981	-1770	15.028	54.012
1982	-1770	18.276	54.264
1983	-1770	21.631	54.522
1984	-1770	24.986	54.778
1985	-1740	-24.986	55.234
1986	-1740	-21.631	54.98
1987	-1740	-18.276	54.721
1988	-1740	-15.028	54.468
1989	-1740	-11.781	54.213
1990	-1740	-5.89	54.011
1991	-1740	0	54.072
1992	-1740	5.89	54.011
1993	-1740	11.781	54.213
1994	-1740	15.028	54.468
1995	-1740	18.276	54.721
1996	-1740	21.631	54.98
1997	-1740	24.986	55.234
1998	-1710	-24.986	55.648
1999	-1710	-21.631	55.378

2000	-1710	-18.276	55.107
2001	-1710	-15.028	54.844
2002	-1710	-11.781	54.58
2003	-1710	-5.89	54.372
2004	-1710	0	54.431
2005	-1710	5.89	54.372
2006	-1710	11.781	54.58
2007	-1710	15.028	54.844
2008	-1710	18.276	55.107
2009	-1710	21.631	55.378
2010	-1710	24.986	55.648
2011	-1680	-24.986	56.091
2012	-1680	-21.631	55.819
2013	-1680	-18.276	55.545
2014	-1680	-15.028	55.28
2015	-1680	-11.781	55.015
2016	-1680	-5.89	54.808
2017	-1680	0	54.867
2018	-1680	5.89	54.808
2019	-1680	11.781	55.015
2020	-1680	15.028	55.28
2021	-1680	18.276	55.545
2022	-1680	21.631	55.819
2023	-1680	24.986	56.091
2024	-1620	-24.986	57.044
2025	-1620	-21.631	56.799
2026	-1620	-18.276	56.551
2027	-1620	-15.028	56.307
2028	-1620	-11.781	56.061
2029	-1620	-5.89	55.872

2030	-1620	0	55.934
2031	-1620	5.89	55.872
2032	-1620	11.781	56.061
2033	-1620	15.028	56.307
2034	-1620	18.276	56.551
2035	-1620	21.631	56.799
2036	-1620	24.986	57.044
2037	-1590	-24.986	57.448
2038	-1590	-21.631	57.178
2039	-1590	-18.276	56.907
2040	-1590	-15.028	56.644
2041	-1590	-11.781	56.38
2042	-1590	-5.89	56.171
2043	-1590	0	56.231
2044	-1590	5.89	56.171
2045	-1590	11.781	56.38
2046	-1590	15.028	56.644
2047	-1590	18.276	56.907
2048	-1590	21.631	57.178
2049	-1590	24.986	57.448
2050	-1560	-24.986	57.934
2051	-1560	-21.631	57.679
2052	-1560	-18.276	57.421
2053	-1560	-15.028	57.168
2054	-1560	-11.781	56.913
2055	-1560	-5.89	56.711
2056	-1560	0	56.771
2057	-1560	5.89	56.711
2058	-1560	11.781	56.913
2059	-1560	15.028	57.168

2060	-1560	18.276	57.421
2061	-1560	21.631	57.679
2062	-1560	24.986	57.934
2063	-1530	-24.986	58.384
2064	-1530	-21.631	58.129
2065	-1530	-18.276	57.871
2066	-1530	-15.028	57.618
2067	-1530	-11.781	57.362
2068	-1530	-5.89	57.161
2069	-1530	0	57.221
2070	-1530	5.89	57.161
2071	-1530	11.781	57.362
2072	-1530	15.028	57.618
2073	-1530	18.276	57.871
2074	-1530	21.631	58.129
2075	-1530	24.986	58.384
2076	-1500	-24.986	58.834
2077	-1500	-21.631	58.579
2078	-1500	-18.276	58.321
2079	-1500	-15.028	58.068
2080	-1500	-11.781	57.812
2081	-1500	-5.89	57.611
2082	-1500	0	57.671
2083	-1500	5.89	57.611
2084	-1500	11.781	57.812
2085	-1500	15.028	58.068
2086	-1500	18.276	58.321
2087	-1500	21.631	58.579
2088	-1500	24.986	58.834
2089	-1470	-24.986	59.284

2090	-1470	-21.631	59.029
2091	-1470	-18.276	58.771
2092	-1470	-15.028	58.518
2093	-1470	-11.781	58.262
2094	-1470	-5.89	58.061
2095	-1470	0	58.121
2096	-1470	5.89	58.061
2097	-1470	11.781	58.262
2098	-1470	15.028	58.518
2099	-1470	18.276	58.771
2100	-1470	21.631	59.029
2101	-1470	24.986	59.284
2102	-1440	-24.986	59.734
2103	-1440	-21.631	59.479
2104	-1440	-18.276	59.221
2105	-1440	-15.028	58.968
2106	-1440	-11.781	58.712
2107	-1440	-5.89	58.511
2108	-1440	0	58.571
2109	-1440	5.89	58.511
2110	-1440	11.781	58.712
2111	-1440	15.028	58.968
2112	-1440	18.276	59.221
2113	-1440	21.631	59.479
2114	-1440	24.986	59.734
2115	-1410	-24.986	60.184
2116	-1410	-21.631	59.929
2117	-1410	-18.276	59.671
2118	-1410	-15.028	59.417
2119	-1410	-11.781	59.162

2120	-1410	-5.89	58.961
2121	-1410	0	59.021
2122	-1410	5.89	58.961
2123	-1410	11.781	59.162
2124	-1410	15.028	59.417
2125	-1410	18.276	59.671
2126	-1410	21.631	59.929
2127	-1410	24.986	60.184
2128	-1380	-24.986	60.634
2129	-1380	-21.631	60.379
2130	-1380	-18.276	60.121
2131	-1380	-15.028	59.867
2132	-1380	-11.781	59.612
2133	-1380	-5.89	59.411
2134	-1380	0	59.471
2135	-1380	5.89	59.411
2136	-1380	11.781	59.612
2137	-1380	15.028	59.867
2138	-1380	18.276	60.121
2139	-1380	21.631	60.379
2140	-1380	24.986	60.634
2141	-1350	-24.986	61.084
2142	-1350	-21.631	60.829
2143	-1350	-18.276	60.57
2144	-1350	-15.028	60.317
2145	-1350	-11.781	60.062
2146	-1350	-5.89	59.861
2147	-1350	0	59.921
2148	-1350	5.89	59.861
2149	-1350	11.781	60.062

2150	-1350	15.028	60.317
2151	-1350	18.276	60.57
2152	-1350	21.631	60.829
2153	-1350	24.986	61.084
2154	-1320	-24.986	61.534
2155	-1320	-21.631	61.279
2156	-1320	-18.276	61.02
2157	-1320	-15.028	60.767
2158	-1320	-11.781	60.512
2159	-1320	-5.89	60.311
2160	-1320	0	60.371
2161	-1320	5.89	60.311
2162	-1320	11.781	60.512
2163	-1320	15.028	60.767
2164	-1320	18.276	61.02
2165	-1320	21.631	61.279
2166	-1320	24.986	61.534
2167	-1290	-24.986	61.984
2168	-1290	-21.631	61.729
2169	-1290	-18.276	61.47
2170	-1290	-15.028	61.217
2171	-1290	-11.781	60.962
2172	-1290	-5.89	60.761
2173	-1290	0	60.821
2174	-1290	5.89	60.761
2175	-1290	11.781	60.962
2176	-1290	15.028	61.217
2177	-1290	18.276	61.47
2178	-1290	21.631	61.729
2179	-1290	24.986	61.984

2180	-1260	-24.986	62.433
2181	-1260	-21.631	62.179
2182	-1260	-18.276	61.92
2183	-1260	-15.028	61.667
2184	-1260	-11.781	61.412
2185	-1260	-5.89	61.211
2186	-1260	0	61.271
2187	-1260	5.89	61.211
2188	-1260	11.781	61.412
2189	-1260	15.028	61.667
2190	-1260	18.276	61.92
2191	-1260	21.631	62.179
2192	-1260	24.986	62.433
2193	-1230	-24.986	62.883
2194	-1230	-21.631	62.629
2195	-1230	-18.276	62.37
2196	-1230	-15.028	62.117
2197	-1230	-11.781	61.862
2198	-1230	-5.89	61.661
2199	-1230	0	61.721
2200	-1230	5.89	61.661
2201	-1230	11.781	61.862
2202	-1230	15.028	62.117
2203	-1230	18.276	62.37
2204	-1230	21.631	62.629
2205	-1230	24.986	62.883
2206	-1200	-24.986	63.333
2207	-1200	-21.631	63.079
2208	-1200	-18.276	62.82
2209	-1200	-15.028	62.567

2210	-1200	-11.781	62.312
2211	-1200	-5.89	62.111
2212	-1200	0	62.171
2213	-1200	5.89	62.111
2214	-1200	11.781	62.312
2215	-1200	15.028	62.567
2216	-1200	18.276	62.82
2217	-1200	21.631	63.079
2218	-1200	24.986	63.333
2219	-1170	-24.986	63.783
2220	-1170	-21.631	63.529
2221	-1170	-18.276	63.27
2222	-1170	-15.028	63.017
2223	-1170	-11.781	62.762
2224	-1170	-5.89	62.561
2225	-1170	0	62.621
2226	-1170	5.89	62.561
2227	-1170	11.781	62.762
2228	-1170	15.028	63.017
2229	-1170	18.276	63.27
2230	-1170	21.631	63.529
2231	-1170	24.986	63.783
2232	-1140	-24.986	64.233
2233	-1140	-21.631	63.979
2234	-1140	-18.276	63.72
2235	-1140	-15.028	63.467
2236	-1140	-11.781	63.212
2237	-1140	-5.89	63.01
2238	-1140	0	63.071
2239	-1140	5.89	63.01

2240	-1140	11.781	63.212
2241	-1140	15.028	63.467
2242	-1140	18.276	63.72
2243	-1140	21.631	63.979
2244	-1140	24.986	64.233
2245	-1110	-24.986	64.683
2246	-1110	-21.631	64.429
2247	-1110	-18.276	64.17
2248	-1110	-15.028	63.917
2249	-1110	-11.781	63.662
2250	-1110	-5.89	63.46
2251	-1110	0	63.521
2252	-1110	5.89	63.46
2253	-1110	11.781	63.662
2254	-1110	15.028	63.917
2255	-1110	18.276	64.17
2256	-1110	21.631	64.429
2257	-1110	24.986	64.683
2258	-1080	-24.986	65.133
2259	-1080	-21.631	64.879
2260	-1080	-18.276	64.62
2261	-1080	-15.028	64.367
2262	-1080	-11.781	64.112
2263	-1080	-5.89	63.91
2264	-1080	0	63.971
2265	-1080	5.89	63.91
2266	-1080	11.781	64.112
2267	-1080	15.028	64.367
2268	-1080	18.276	64.62
2269	-1080	21.631	64.879

2270	-1080	24.986	65.133
2271	-1050	-24.986	65.583
2272	-1050	-21.631	65.329
2273	-1050	-18.276	65.07
2274	-1050	-15.028	64.817
2275	-1050	-11.781	64.562
2276	-1050	-5.89	64.36
2277	-1050	0	64.421
2278	-1050	5.89	64.36
2279	-1050	11.781	64.562
2280	-1050	15.028	64.817
2281	-1050	18.276	65.07
2282	-1050	21.631	65.329
2283	-1050	24.986	65.583
2284	-1020	-24.986	66.033
2285	-1020	-21.631	65.778
2286	-1020	-18.276	65.52
2287	-1020	-15.028	65.267
2288	-1020	-11.781	65.012
2289	-1020	-5.89	64.81
2290	-1020	0	64.871
2291	-1020	5.89	64.81
2292	-1020	11.781	65.012
2293	-1020	15.028	65.267
2294	-1020	18.276	65.52
2295	-1020	21.631	65.778
2296	-1020	24.986	66.033
2297	-990	-24.986	66.483
2298	-990	-21.631	66.228
2299	-990	-18.276	65.97

2300	-990	-15.028	65.717
2301	-990	-11.781	65.462
2302	-990	-5.89	65.26
2303	-990	0	65.32
2304	-990	5.89	65.26
2305	-990	11.781	65.462
2306	-990	15.028	65.717
2307	-990	18.276	65.97
2308	-990	21.631	66.228
2309	-990	24.986	66.483
2310	-960	-24.986	66.933
2311	-960	-21.631	66.678
2312	-960	-18.276	66.42
2313	-960	-15.028	66.167
2314	-960	-11.781	65.912
2315	-960	-5.89	65.71
2316	-960	0	65.77
2317	-960	5.89	65.71
2318	-960	11.781	65.912
2319	-960	15.028	66.167
2320	-960	18.276	66.42
2321	-960	21.631	66.678
2322	-960	24.986	66.933
2323	-930	-24.986	67.383
2324	-930	-21.631	67.128
2325	-930	-18.276	66.87
2326	-930	-15.028	66.617
2327	-930	-11.781	66.361
2328	-930	-5.89	66.16
2329	-930	0	66.22

2330	-930	5.89	66.16
2331	-930	11.781	66.361
2332	-930	15.028	66.617
2333	-930	18.276	66.87
2334	-930	21.631	67.128
2335	-930	24.986	67.383
2336	-900	-24.986	67.833
2337	-900	-21.631	67.578
2338	-900	-18.276	67.32
2339	-900	-15.028	67.067
2340	-900	-11.781	66.811
2341	-900	-5.89	66.61
2342	-900	0	66.67
2343	-900	5.89	66.61
2344	-900	11.781	66.811
2345	-900	15.028	67.067
2346	-900	18.276	67.32
2347	-900	21.631	67.578
2348	-900	24.986	67.833
2349	-870	-24.986	68.283
2350	-870	-21.631	68.028
2351	-870	-18.276	67.77
2352	-870	-15.028	67.517
2353	-870	-11.781	67.261
2354	-870	-5.89	67.06
2355	-870	0	67.12
2356	-870	5.89	67.06
2357	-870	11.781	67.261
2358	-870	15.028	67.517
2359	-870	18.276	67.77

2360	-870	21.631	68.028
2361	-870	24.986	68.283
2362	-840	-24.986	68.733
2363	-840	-21.631	68.478
2364	-840	-18.276	68.22
2365	-840	-15.028	67.967
2366	-840	-11.781	67.711
2367	-840	-5.89	67.51
2368	-840	0	67.57
2369	-840	5.89	67.51
2370	-840	11.781	67.711
2371	-840	15.028	67.967
2372	-840	18.276	68.22
2373	-840	21.631	68.478
2374	-840	24.986	68.733
2375	-810	-24.986	69.183
2376	-810	-21.631	68.928
2377	-810	-18.276	68.67
2378	-810	-15.028	68.416
2379	-810	-11.781	68.161
2380	-810	-5.89	67.96
2381	-810	0	68.02
2382	-810	5.89	67.96
2383	-810	11.781	68.161
2384	-810	15.028	68.416
2385	-810	18.276	68.67
2386	-810	21.631	68.928
2387	-810	24.986	69.183
2388	-780	-24.986	69.633
2389	-780	-21.631	69.378

2390	-780	-18.276	69.12
2391	-780	-15.028	68.866
2392	-780	-11.781	68.611
2393	-780	-5.89	68.41
2394	-780	0	68.47
2395	-780	5.89	68.41
2396	-780	11.781	68.611
2397	-780	15.028	68.866
2398	-780	18.276	69.12
2399	-780	21.631	69.378
2400	-780	24.986	69.633
2401	-750	-24.986	70.083
2402	-750	-21.631	69.828
2403	-750	-18.276	69.569
2404	-750	-15.028	69.316
2405	-750	-11.781	69.061
2406	-750	-5.89	68.86
2407	-750	0	68.92
2408	-750	5.89	68.86
2409	-750	11.781	69.061
2410	-750	15.028	69.316
2411	-750	18.276	69.569
2412	-750	21.631	69.828
2413	-750	24.986	70.083
2414	-720	-24.986	70.533
2415	-720	-21.631	70.278
2416	-720	-18.276	70.019
2417	-720	-15.028	69.766
2418	-720	-11.781	69.511
2419	-720	-5.89	69.31

2420	-720	0	69.37
2421	-720	5.89	69.31
2422	-720	11.781	69.511
2423	-720	15.028	69.766
2424	-720	18.276	70.019
2425	-720	21.631	70.278
2426	-720	24.986	70.533
2427	-690	-24.986	70.982
2428	-690	-21.631	70.728
2429	-690	-18.276	70.469
2430	-690	-15.028	70.216
2431	-690	-11.781	69.961
2432	-690	-5.89	69.76
2433	-690	0	69.82
2434	-690	5.89	69.76
2435	-690	11.781	69.961
2436	-690	15.028	70.216
2437	-690	18.276	70.469
2438	-690	21.631	70.728
2439	-690	24.986	70.982
2440	-660	-24.986	71.432
2441	-660	-21.631	71.178
2442	-660	-18.276	70.919
2443	-660	-15.028	70.666
2444	-660	-11.781	70.411
2445	-660	-5.89	70.21
2446	-660	0	70.27
2447	-660	5.89	70.21
2448	-660	11.781	70.411
2449	-660	15.028	70.666

2450	-660	18.276	70.919
2451	-660	21.631	71.178
2452	-660	24.986	71.432
2453	-630	-24.986	71.882
2454	-630	-21.631	71.628
2455	-630	-18.276	71.369
2456	-630	-15.028	71.116
2457	-630	-11.781	70.861
2458	-630	-5.89	70.66
2459	-630	0	70.72
2460	-630	5.89	70.66
2461	-630	11.781	70.861
2462	-630	15.028	71.116
2463	-630	18.276	71.369
2464	-630	21.631	71.628
2465	-630	24.986	71.882
2466	-600	-24.986	72.332
2467	-600	-21.631	72.078
2468	-600	-18.276	71.819
2469	-600	-15.028	71.566
2470	-600	-11.781	71.311
2471	-600	-5.89	71.11
2472	-600	0	71.17
2473	-600	5.89	71.11
2474	-600	11.781	71.311
2475	-600	15.028	71.566
2476	-600	18.276	71.819
2477	-600	21.631	72.078
2478	-600	24.986	72.332
2479	-570	-24.986	72.782

2480	-570	-21.631	72.528
2481	-570	-18.276	72.269
2482	-570	-15.028	72.016
2483	-570	-11.781	71.761
2484	-570	-5.89	71.559
2485	-570	0	71.62
2486	-570	5.89	71.559
2487	-570	11.781	71.761
2488	-570	15.028	72.016
2489	-570	18.276	72.269
2490	-570	21.631	72.528
2491	-570	24.986	72.782
2492	-540	-24.986	73.232
2493	-540	-21.631	72.978
2494	-540	-18.276	72.719
2495	-540	-15.028	72.466
2496	-540	-11.781	72.211
2497	-540	-5.89	72.009
2498	-540	0	72.07
2499	-540	5.89	72.009
2500	-540	11.781	72.211
2501	-540	15.028	72.466
2502	-540	18.276	72.719
2503	-540	21.631	72.978
2504	-540	24.986	73.232
2505	-510	-24.986	73.682
2506	-510	-21.631	73.428
2507	-510	-18.276	73.169
2508	-510	-15.028	72.916
2509	-510	-11.781	72.661

2510	-510	-5.89	72.459
2511	-510	0	72.52
2512	-510	5.89	72.459
2513	-510	11.781	72.661
2514	-510	15.028	72.916
2515	-510	18.276	73.169
2516	-510	21.631	73.428
2517	-510	24.986	73.682
2518	-480	-24.986	74.132
2519	-480	-21.631	73.878
2520	-480	-18.276	73.619
2521	-480	-15.028	73.366
2522	-480	-11.781	73.111
2523	-480	-5.89	72.909
2524	-480	0	72.97
2525	-480	5.89	72.909
2526	-480	11.781	73.111
2527	-480	15.028	73.366
2528	-480	18.276	73.619
2529	-480	21.631	73.878
2530	-480	24.986	74.132
2531	-450	-24.986	74.582
2532	-450	-21.631	74.327
2533	-450	-18.276	74.069
2534	-450	-15.028	73.816
2535	-450	-11.781	73.561
2536	-450	-5.89	73.359
2537	-450	0	73.42
2538	-450	5.89	73.359
2539	-450	11.781	73.561

2540	-450	15.028	73.816
2541	-450	18.276	74.069
2542	-450	21.631	74.327
2543	-450	24.986	74.582
2544	-420	-24.986	75.017
2545	-420	-21.631	74.762
2546	-420	-18.276	74.504
2547	-420	-15.028	74.251
2548	-420	-11.781	73.996
2549	-420	-5.89	73.794
2550	-420	0	73.854
2551	-420	5.89	73.794
2552	-420	11.781	73.996
2553	-420	15.028	74.251
2554	-420	18.276	74.504
2555	-420	21.631	74.762
2556	-420	24.986	75.017
2557	-390	-24.986	75.422
2558	-390	-21.631	75.167
2559	-390	-18.276	74.909
2560	-390	-15.028	74.656
2561	-390	-11.781	74.4
2562	-390	-5.89	74.199
2563	-390	0	74.259
2564	-390	5.89	74.199
2565	-390	11.781	74.4
2566	-390	15.028	74.656
2567	-390	18.276	74.909
2568	-390	21.631	75.167
2569	-390	24.986	75.422

2570	-360	-24.986	75.797
2571	-360	-21.631	75.542
2572	-360	-18.276	75.284
2573	-360	-15.028	75.031
2574	-360	-11.781	74.775
2575	-360	-5.89	74.574
2576	-360	0	74.634
2577	-360	5.89	74.574
2578	-360	11.781	74.775
2579	-360	15.028	75.031
2580	-360	18.276	75.284
2581	-360	21.631	75.542
2582	-360	24.986	75.797
2583	-330	-24.986	76.142
2584	-330	-21.631	75.887
2585	-330	-18.276	75.629
2586	-330	-15.028	75.376
2587	-330	-11.781	75.12
2588	-330	-5.89	74.919
2589	-330	0	74.979
2590	-330	5.89	74.919
2591	-330	11.781	75.12
2592	-330	15.028	75.376
2593	-330	18.276	75.629
2594	-330	21.631	75.887
2595	-330	24.986	76.142
2596	-300	-24.986	76.457
2597	-300	-21.631	76.202
2598	-300	-18.276	75.944
2599	-300	-15.028	75.691

2600	-300	-11.781	75.435
2601	-300	-5.89	75.234
2602	-300	0	75.294
2603	-300	5.89	75.234
2604	-300	11.781	75.435
2605	-300	15.028	75.691
2606	-300	18.276	75.944
2607	-300	21.631	76.202
2608	-300	24.986	76.457
2609	-270	-24.986	76.742
2610	-270	-21.631	76.487
2611	-270	-18.276	76.229
2612	-270	-15.028	75.975
2613	-270	-11.781	75.72
2614	-270	-5.89	75.519
2615	-270	0	75.579
2616	-270	5.89	75.519
2617	-270	11.781	75.72
2618	-270	15.028	75.975
2619	-270	18.276	76.229
2620	-270	21.631	76.487
2621	-270	24.986	76.742
2622	-240	-24.986	76.997
2623	-240	-21.631	76.742
2624	-240	-18.276	76.484
2625	-240	-15.028	76.23
2626	-240	-11.781	75.975
2627	-240	-5.89	75.774
2628	-240	0	75.834
2629	-240	5.89	75.774

2630	-240	11.781	75.975
2631	-240	15.028	76.23
2632	-240	18.276	76.484
2633	-240	21.631	76.742
2634	-240	24.986	76.997
2635	-210	-24.986	77.222
2636	-210	-21.631	76.967
2637	-210	-18.276	76.708
2638	-210	-15.028	76.455
2639	-210	-11.781	76.2
2640	-210	-5.89	75.999
2641	-210	0	76.059
2642	-210	5.89	75.999
2643	-210	11.781	76.2
2644	-210	15.028	76.455
2645	-210	18.276	76.708
2646	-210	21.631	76.967
2647	-210	24.986	77.222
2648	-180	-24.986	77.417
2649	-180	-21.631	77.162
2650	-180	-18.276	76.903
2651	-180	-15.028	76.65
2652	-180	-11.781	76.395
2653	-180	-5.89	76.194
2654	-180	0	76.254
2655	-180	5.89	76.194
2656	-180	11.781	76.395
2657	-180	15.028	76.65
2658	-180	18.276	76.903
2659	-180	21.631	77.162

2660	-180	24.986	77.417
2661	-150	-24.986	77.582
2662	-150	-21.631	77.327
2663	-150	-18.276	77.068
2664	-150	-15.028	76.815
2665	-150	-11.781	76.56
2666	-150	-5.89	76.359
2667	-150	0	76.419
2668	-150	5.89	76.359
2669	-150	11.781	76.56
2670	-150	15.028	76.815
2671	-150	18.276	77.068
2672	-150	21.631	77.327
2673	-150	24.986	77.582
2674	-120	-24.986	77.716
2675	-120	-21.631	77.462
2676	-120	-18.276	77.203
2677	-120	-15.028	76.95
2678	-120	-11.781	76.695
2679	-120	-5.89	76.494
2680	-120	0	76.554
2681	-120	5.89	76.494
2682	-120	11.781	76.695
2683	-120	15.028	76.95
2684	-120	18.276	77.203
2685	-120	21.631	77.462
2686	-120	24.986	77.716
2687	-90	-24.986	77.821
2688	-90	-21.631	77.567
2689	-90	-18.276	77.308

2690	-90	-15.028	77.055
2691	-90	-11.781	76.8
2692	-90	-5.89	76.599
2693	-90	0	76.659
2694	-90	5.89	76.599
2695	-90	11.781	76.8
2696	-90	15.028	77.055
2697	-90	18.276	77.308
2698	-90	21.631	77.567
2699	-90	24.986	77.821
2700	-60	-24.986	77.896
2701	-60	-21.631	77.642
2702	-60	-18.276	77.383
2703	-60	-15.028	77.13
2704	-60	-11.781	76.875
2705	-60	-5.89	76.674
2706	-60	0	76.734
2707	-60	5.89	76.674
2708	-60	11.781	76.875
2709	-60	15.028	77.13
2710	-60	18.276	77.383
2711	-60	21.631	77.642
2712	-60	24.986	77.896
2713	-30	-24.986	77.941
2714	-30	-21.631	77.687
2715	-30	-18.276	77.428
2716	-30	-15.028	77.175
2717	-30	-11.781	76.92
2718	-30	-5.89	76.719
2719	-30	0	76.779

2720	-30	5.89	76.719
2721	-30	11.781	76.92
2722	-30	15.028	77.175
2723	-30	18.276	77.428
2724	-30	21.631	77.687
2725	-30	24.986	77.941
2726	0	-24.986	77.956
2727	0	-21.631	77.702
2728	0	-18.276	77.443
2729	0	-15.028	77.19
2730	0	-11.781	76.935
2731	0	-5.89	76.733
2732	0	0	76.794
2733	0	5.89	76.733
2734	0	11.781	76.935
2735	0	15.028	77.19
2736	0	18.276	77.443
2737	0	21.631	77.702
2738	0	24.986	77.956
2739	30	-24.986	77.941
2740	30	-21.631	77.687
2741	30	-18.276	77.428
2742	30	-15.028	77.175
2743	30	-11.781	76.92
2744	30	-5.89	76.718
2745	30	0	76.779
2746	30	5.89	76.718
2747	30	11.781	76.92
2748	30	15.028	77.175
2749	30	18.276	77.428

2750	30	21.631	77.687
2751	30	24.986	77.941
2752	60	-24.986	77.896
2753	60	-21.631	77.642
2754	60	-18.276	77.383
2755	60	-15.028	77.13
2756	60	-11.781	76.875
2757	60	-5.89	76.673
2758	60	0	76.734
2759	60	5.89	76.673
2760	60	11.781	76.875
2761	60	15.028	77.13
2762	60	18.276	77.383
2763	60	21.631	77.642
2764	60	24.986	77.896
2765	90	-24.986	77.821
2766	90	-21.631	77.567
2767	90	-18.276	77.308
2768	90	-15.028	77.055
2769	90	-11.781	76.8
2770	90	-5.89	76.598
2771	90	0	76.659
2772	90	5.89	76.598
2773	90	11.781	76.8
2774	90	15.028	77.055
2775	90	18.276	77.308
2776	90	21.631	77.567
2777	90	24.986	77.821
2778	120	-24.986	77.716
2779	120	-21.631	77.461

2780	120	-18.276	77.203
2781	120	-15.028	76.95
2782	120	-11.781	76.695
2783	120	-5.89	76.493
2784	120	0	76.553
2785	120	5.89	76.493
2786	120	11.781	76.695
2787	120	15.028	76.95
2788	120	18.276	77.203
2789	120	21.631	77.461
2790	120	24.986	77.716
2791	150	-24.986	77.581
2792	150	-21.631	77.326
2793	150	-18.276	77.068
2794	150	-15.028	76.815
2795	150	-11.781	76.56
2796	150	-5.89	76.358
2797	150	0	76.418
2798	150	5.89	76.358
2799	150	11.781	76.56
2800	150	15.028	76.815
2801	150	18.276	77.068
2802	150	21.631	77.326
2803	150	24.986	77.581
2804	180	-24.986	77.416
2805	180	-21.631	77.161
2806	180	-18.276	76.903
2807	180	-15.028	76.65
2808	180	-11.781	76.395
2809	180	-5.89	76.193

2810	180	0	76.253
2811	180	5.89	76.193
2812	180	11.781	76.395
2813	180	15.028	76.65
2814	180	18.276	76.903
2815	180	21.631	77.161
2816	180	24.986	77.416
2817	210	-24.986	77.221
2818	210	-21.631	76.966
2819	210	-18.276	76.708
2820	210	-15.028	76.455
2821	210	-11.781	76.199
2822	210	-5.89	75.998
2823	210	0	76.058
2824	210	5.89	75.998
2825	210	11.781	76.199
2826	210	15.028	76.455
2827	210	18.276	76.708
2828	210	21.631	76.966
2829	210	24.986	77.221
2830	240	-24.986	76.996
2831	240	-21.631	76.741
2832	240	-18.276	76.483
2833	240	-15.028	76.23
2834	240	-11.781	75.974
2835	240	-5.89	75.773
2836	240	0	75.833
2837	240	5.89	75.773
2838	240	11.781	75.974
2839	240	15.028	76.23

2840	240	18.276	76.483
2841	240	21.631	76.741
2842	240	24.986	76.996
2843	270	-24.986	76.741
2844	270	-21.631	76.486
2845	270	-18.276	76.228
2846	270	-15.028	75.975
2847	270	-11.781	75.719
2848	270	-5.89	75.518
2849	270	0	75.578
2850	270	5.89	75.518
2851	270	11.781	75.719
2852	270	15.028	75.975
2853	270	18.276	76.228
2854	270	21.631	76.486
2855	270	24.986	76.741
2856	300	-24.986	76.465
2857	300	-21.631	76.21
2858	300	-18.276	75.952
2859	300	-15.028	75.698
2860	300	-11.781	75.443
2861	300	-5.89	75.242
2862	300	0	75.302
2863	300	5.89	75.242
2864	300	11.781	75.443
2865	300	15.028	75.698
2866	300	18.276	75.952
2867	300	21.631	76.21
2868	300	24.986	76.465
2869	330	-24.986	76.188

2870	330	-21.631	75.933
2871	330	-18.276	75.675
2872	330	-15.028	75.422
2873	330	-11.781	75.166
2874	330	-5.89	74.965
2875	330	0	75.025
2876	330	5.89	74.965
2877	330	11.781	75.166
2878	330	15.028	75.422
2879	330	18.276	75.675
2880	330	21.631	75.933
2881	330	24.986	76.188
2882	360	-24.986	75.911
2883	360	-21.631	75.656
2884	360	-18.276	75.398
2885	360	-15.028	75.145
2886	360	-11.781	74.889
2887	360	-5.89	74.688
2888	360	0	74.748
2889	360	5.89	74.688
2890	360	11.781	74.889
2891	360	15.028	75.145
2892	360	18.276	75.398
2893	360	21.631	75.656
2894	360	24.986	75.911
2895	390	-24.986	75.634
2896	390	-21.631	75.379
2897	390	-18.276	75.121
2898	390	-15.028	74.868
2899	390	-11.781	74.612

2900	390	-5.89	74.411
2901	390	0	74.471
2902	390	5.89	74.411
2903	390	11.781	74.612
2904	390	15.028	74.868
2905	390	18.276	75.121
2906	390	21.631	75.379
2907	390	24.986	75.634
2908	420	-24.986	75.357
2909	420	-21.631	75.102
2910	420	-18.276	74.844
2911	420	-15.028	74.591
2912	420	-11.781	74.335
2913	420	-5.89	74.134
2914	420	0	74.194
2915	420	5.89	74.134
2916	420	11.781	74.335
2917	420	15.028	74.591
2918	420	18.276	74.844
2919	420	21.631	75.102
2920	420	24.986	75.357
2921	450	-24.986	75.08
2922	450	-21.631	74.825
2923	450	-18.276	74.567
2924	450	-15.028	74.314
2925	450	-11.781	74.058
2926	450	-5.89	73.857
2927	450	0	73.917
2928	450	5.89	73.857
2929	450	11.781	74.058

2930	450	15.028	74.314
2931	450	18.276	74.567
2932	450	21.631	74.825
2933	450	24.986	75.08
2934	480	-24.986	74.803
2935	480	-21.631	74.548
2936	480	-18.276	74.29
2937	480	-15.028	74.037
2938	480	-11.781	73.782
2939	480	-5.89	73.58
2940	480	0	73.64
2941	480	5.89	73.58
2942	480	11.781	73.782
2943	480	15.028	74.037
2944	480	18.276	74.29
2945	480	21.631	74.548
2946	480	24.986	74.803
2947	510	-24.986	74.526
2948	510	-21.631	74.271
2949	510	-18.276	74.013
2950	510	-15.028	73.76
2951	510	-11.781	73.505
2952	510	-5.89	73.303
2953	510	0	73.363
2954	510	5.89	73.303
2955	510	11.781	73.505
2956	510	15.028	73.76
2957	510	18.276	74.013
2958	510	21.631	74.271
2959	510	24.986	74.526

2960	540	-24.986	74.249
2961	540	-21.631	73.994
2962	540	-18.276	73.736
2963	540	-15.028	73.483
2964	540	-11.781	73.228
2965	540	-5.89	73.026
2966	540	0	73.087
2967	540	5.89	73.026
2968	540	11.781	73.228
2969	540	15.028	73.483
2970	540	18.276	73.736
2971	540	21.631	73.994
2972	540	24.986	74.249
2973	570	-24.986	73.972
2974	570	-21.631	73.718
2975	570	-18.276	73.459
2976	570	-15.028	73.206
2977	570	-11.781	72.951
2978	570	-5.89	72.749
2979	570	0	72.81
2980	570	5.89	72.749
2981	570	11.781	72.951
2982	570	15.028	73.206
2983	570	18.276	73.459
2984	570	21.631	73.718
2985	570	24.986	73.972
2986	600	-24.986	73.695
2987	600	-21.631	73.441
2988	600	-18.276	73.182
2989	600	-15.028	72.929

2990	600	-11.781	72.674
2991	600	-5.89	72.472
2992	600	0	72.533
2993	600	5.89	72.472
2994	600	11.781	72.674
2995	600	15.028	72.929
2996	600	18.276	73.182
2997	600	21.631	73.441
2998	600	24.986	73.695
2999	630	-24.986	73.418
3000	630	-21.631	73.164
3001	630	-18.276	72.905
3002	630	-15.028	72.652
3003	630	-11.781	72.397
3004	630	-5.89	72.195
3005	630	0	72.256
3006	630	5.89	72.195
3007	630	11.781	72.397
3008	630	15.028	72.652
3009	630	18.276	72.905
3010	630	21.631	73.164
3011	630	24.986	73.418
3012	660	-24.986	73.141
3013	660	-21.631	72.887
3014	660	-18.276	72.628
3015	660	-15.028	72.375
3016	660	-11.781	72.12
3017	660	-5.89	71.918
3018	660	0	71.979
3019	660	5.89	71.918

3020	660	11.781	72.12
3021	660	15.028	72.375
3022	660	18.276	72.628
3023	660	21.631	72.887
3024	660	24.986	73.141
3025	690	-24.986	72.864
3026	690	-21.631	72.61
3027	690	-18.276	72.351
3028	690	-15.028	72.098
3029	690	-11.781	71.843
3030	690	-5.89	71.642
3031	690	0	71.702
3032	690	5.89	71.642
3033	690	11.781	71.843
3034	690	15.028	72.098
3035	690	18.276	72.351
3036	690	21.631	72.61
3037	690	24.986	72.864
3038	720	-24.986	72.587
3039	720	-21.631	72.333
3040	720	-18.276	72.074
3041	720	-15.028	71.821
3042	720	-11.781	71.566
3043	720	-5.89	71.365
3044	720	0	71.425
3045	720	5.89	71.365
3046	720	11.781	71.566
3047	720	15.028	71.821
3048	720	18.276	72.074
3049	720	21.631	72.333

3050	720	24.986	72.587
3051	750	-24.986	72.31
3052	750	-21.631	72.056
3053	750	-18.276	71.797
3054	750	-15.028	71.544
3055	750	-11.781	71.289
3056	750	-5.89	71.088
3057	750	0	71.148
3058	750	5.89	71.088
3059	750	11.781	71.289
3060	750	15.028	71.544
3061	750	18.276	71.797
3062	750	21.631	72.056
3063	750	24.986	72.31
3064	780	-24.986	72.033
3065	780	-21.631	71.779
3066	780	-18.276	71.52
3067	780	-15.028	71.267
3068	780	-11.781	71.012
3069	780	-5.89	70.811
3070	780	0	70.871
3071	780	5.89	70.811
3072	780	11.781	71.012
3073	780	15.028	71.267
3074	780	18.276	71.52
3075	780	21.631	71.779
3076	780	24.986	72.033
3077	810	-24.986	71.756
3078	810	-21.631	71.502
3079	810	-18.276	71.243

3080	810	-15.028	70.99
3081	810	-11.781	70.735
3082	810	-5.89	70.534
3083	810	0	70.594
3084	810	5.89	70.534
3085	810	11.781	70.735
3086	810	15.028	70.99
3087	810	18.276	71.243
3088	810	21.631	71.502
3089	810	24.986	71.756
3090	840	-24.986	71.48
3091	840	-21.631	71.225
3092	840	-18.276	70.966
3093	840	-15.028	70.713
3094	840	-11.781	70.458
3095	840	-5.89	70.257
3096	840	0	70.317
3097	840	5.89	70.257
3098	840	11.781	70.458
3099	840	15.028	70.713
3100	840	18.276	70.966
3101	840	21.631	71.225
3102	840	24.986	71.48
3103	870	-24.986	71.203
3104	870	-21.631	70.948
3105	870	-18.276	70.689
3106	870	-15.028	70.436
3107	870	-11.781	70.181
3108	870	-5.89	69.98
3109	870	0	70.04

3110	870	5.89	69.98
3111	870	11.781	70.181
3112	870	15.028	70.436
3113	870	18.276	70.689
3114	870	21.631	70.948
3115	870	24.986	71.203
3116	900	-24.986	70.926
3117	900	-21.631	70.671
3118	900	-18.276	70.413
3119	900	-15.028	70.159
3120	900	-11.781	69.904
3121	900	-5.89	69.703
3122	900	0	69.763
3123	900	5.89	69.703
3124	900	11.781	69.904
3125	900	15.028	70.159
3126	900	18.276	70.413
3127	900	21.631	70.671
3128	900	24.986	70.926
3129	930	-24.986	70.649
3130	930	-21.631	70.394
3131	930	-18.276	70.136
3132	930	-15.028	69.882
3133	930	-11.781	69.627
3134	930	-5.89	69.426
3135	930	0	69.486
3136	930	5.89	69.426
3137	930	11.781	69.627
3138	930	15.028	69.882
3139	930	18.276	70.136

3140	930	21.631	70.394
3141	930	24.986	70.649
3142	960	-24.986	70.372
3143	960	-21.631	70.117
3144	960	-18.276	69.859
3145	960	-15.028	69.606
3146	960	-11.781	69.35
3147	960	-5.89	69.149
3148	960	0	69.209
3149	960	5.89	69.149
3150	960	11.781	69.35
3151	960	15.028	69.606
3152	960	18.276	69.859
3153	960	21.631	70.117
3154	960	24.986	70.372
3155	990	-24.986	70.095
3156	990	-21.631	69.84
3157	990	-18.276	69.582
3158	990	-15.028	69.329
3159	990	-11.781	69.073
3160	990	-5.89	68.872
3161	990	0	68.932
3162	990	5.89	68.872
3163	990	11.781	69.073
3164	990	15.028	69.329
3165	990	18.276	69.582
3166	990	21.631	69.84
3167	990	24.986	70.095
3168	1020	-24.986	69.818
3169	1020	-21.631	69.563

3170	1020	-18.276	69.305
3171	1020	-15.028	69.052
3172	1020	-11.781	68.796
3173	1020	-5.89	68.595
3174	1020	0	68.655
3175	1020	5.89	68.595
3176	1020	11.781	68.796
3177	1020	15.028	69.052
3178	1020	18.276	69.305
3179	1020	21.631	69.563
3180	1020	24.986	69.818
3181	1050	-24.986	69.541
3182	1050	-21.631	69.286
3183	1050	-18.276	69.028
3184	1050	-15.028	68.775
3185	1050	-11.781	68.519
3186	1050	-5.89	68.318
3187	1050	0	68.378
3188	1050	5.89	68.318
3189	1050	11.781	68.519
3190	1050	15.028	68.775
3191	1050	18.276	69.028
3192	1050	21.631	69.286
3193	1050	24.986	69.541
3194	1080	-24.986	69.264
3195	1080	-21.631	69.009
3196	1080	-18.276	68.751
3197	1080	-15.028	68.498
3198	1080	-11.781	68.242
3199	1080	-5.89	68.041

3200	1080	0	68.101
3201	1080	5.89	68.041
3202	1080	11.781	68.242
3203	1080	15.028	68.498
3204	1080	18.276	68.751
3205	1080	21.631	69.009
3206	1080	24.986	69.264
3207	1110	-24.986	68.987
3208	1110	-21.631	68.732
3209	1110	-18.276	68.474
3210	1110	-15.028	68.221
3211	1110	-11.781	67.966
3212	1110	-5.89	67.764
3213	1110	0	67.824
3214	1110	5.89	67.764
3215	1110	11.781	67.966
3216	1110	15.028	68.221
3217	1110	18.276	68.474
3218	1110	21.631	68.732
3219	1110	24.986	68.987
3220	1140	-24.986	68.71
3221	1140	-21.631	68.455
3222	1140	-18.276	68.197
3223	1140	-15.028	67.944
3224	1140	-11.781	67.689
3225	1140	-5.89	67.487
3226	1140	0	67.547
3227	1140	5.89	67.487
3228	1140	11.781	67.689
3229	1140	15.028	67.944

3230	1140	18.276	68.197
3231	1140	21.631	68.455
3232	1140	24.986	68.71
3233	1170	-24.986	68.433
3234	1170	-21.631	68.178
3235	1170	-18.276	67.92
3236	1170	-15.028	67.667
3237	1170	-11.781	67.412
3238	1170	-5.89	67.21
3239	1170	0	67.271
3240	1170	5.89	67.21
3241	1170	11.781	67.412
3242	1170	15.028	67.667
3243	1170	18.276	67.92
3244	1170	21.631	68.178
3245	1170	24.986	68.433
3246	1200	-24.986	68.156
3247	1200	-21.631	67.902
3248	1200	-18.276	67.643
3249	1200	-15.028	67.39
3250	1200	-11.781	67.135
3251	1200	-5.89	66.933
3252	1200	0	66.994
3253	1200	5.89	66.933
3254	1200	11.781	67.135
3255	1200	15.028	67.39
3256	1200	18.276	67.643
3257	1200	21.631	67.902
3258	1200	24.986	68.156
3259	1230	-24.986	67.879

3260	1230	-21.631	67.625
3261	1230	-18.276	67.366
3262	1230	-15.028	67.113
3263	1230	-11.781	66.858
3264	1230	-5.89	66.656
3265	1230	0	66.717
3266	1230	5.89	66.656
3267	1230	11.781	66.858
3268	1230	15.028	67.113
3269	1230	18.276	67.366
3270	1230	21.631	67.625
3271	1230	24.986	67.879
3272	1260	-24.986	67.602
3273	1260	-21.631	67.348
3274	1260	-18.276	67.089
3275	1260	-15.028	66.836
3276	1260	-11.781	66.581
3277	1260	-5.89	66.379
3278	1260	0	66.44
3279	1260	5.89	66.379
3280	1260	11.781	66.581
3281	1260	15.028	66.836
3282	1260	18.276	67.089
3283	1260	21.631	67.348
3284	1260	24.986	67.602
3285	1290	-24.986	67.325
3286	1290	-21.631	67.071
3287	1290	-18.276	66.812
3288	1290	-15.028	66.559
3289	1290	-11.781	66.304

3290	1290	-5.89	66.102
3291	1290	0	66.163
3292	1290	5.89	66.102
3293	1290	11.781	66.304
3294	1290	15.028	66.559
3295	1290	18.276	66.812
3296	1290	21.631	67.071
3297	1290	24.986	67.325
3298	1320	-24.986	67.048
3299	1320	-21.631	66.794
3300	1320	-18.276	66.535
3301	1320	-15.028	66.282
3302	1320	-11.781	66.027
3303	1320	-5.89	65.826
3304	1320	0	65.886
3305	1320	5.89	65.826
3306	1320	11.781	66.027
3307	1320	15.028	66.282
3308	1320	18.276	66.535
3309	1320	21.631	66.794
3310	1320	24.986	67.048
3311	1350	-24.986	66.771
3312	1350	-21.631	66.517
3313	1350	-18.276	66.258
3314	1350	-15.028	66.005
3315	1350	-11.781	65.75
3316	1350	-5.89	65.549
3317	1350	0	65.609
3318	1350	5.89	65.549
3319	1350	11.781	65.75

3320	1350	15.028	66.005
3321	1350	18.276	66.258
3322	1350	21.631	66.517
3323	1350	24.986	66.771
3324	1380	-24.986	66.494
3325	1380	-21.631	66.24
3326	1380	-18.276	65.981
3327	1380	-15.028	65.728
3328	1380	-11.781	65.473
3329	1380	-5.89	65.272
3330	1380	0	65.332
3331	1380	5.89	65.272
3332	1380	11.781	65.473
3333	1380	15.028	65.728
3334	1380	18.276	65.981
3335	1380	21.631	66.24
3336	1380	24.986	66.494
3337	1410	-24.986	66.217
3338	1410	-21.631	65.963
3339	1410	-18.276	65.704
3340	1410	-15.028	65.451
3341	1410	-11.781	65.196
3342	1410	-5.89	64.995
3343	1410	0	65.055
3344	1410	5.89	64.995
3345	1410	11.781	65.196
3346	1410	15.028	65.451
3347	1410	18.276	65.704
3348	1410	21.631	65.963
3349	1410	24.986	66.217

3350	1440	-24.986	65.94
3351	1440	-21.631	65.686
3352	1440	-18.276	65.427
3353	1440	-15.028	65.174
3354	1440	-11.781	64.919
3355	1440	-5.89	64.718
3356	1440	0	64.778
3357	1440	5.89	64.718
3358	1440	11.781	64.919
3359	1440	15.028	65.174
3360	1440	18.276	65.427
3361	1440	21.631	65.686
3362	1440	24.986	65.94
3363	1470	-24.986	65.664
3364	1470	-21.631	65.409
3365	1470	-18.276	65.15
3366	1470	-15.028	64.897
3367	1470	-11.781	64.642
3368	1470	-5.89	64.441
3369	1470	0	64.501
3370	1470	5.89	64.441
3371	1470	11.781	64.642
3372	1470	15.028	64.897
3373	1470	18.276	65.15
3374	1470	21.631	65.409
3375	1470	24.986	65.664
3376	1500	-24.986	65.387
3377	1500	-21.631	65.132
3378	1500	-18.276	64.873
3379	1500	-15.028	64.62

3380	1500	-11.781	64.365
3381	1500	-5.89	64.164
3382	1500	0	64.224
3383	1500	5.89	64.164
3384	1500	11.781	64.365
3385	1500	15.028	64.62
3386	1500	18.276	64.873
3387	1500	21.631	65.132
3388	1500	24.986	65.387
3389	1530	-24.986	65.11
3390	1530	-21.631	64.855
3391	1530	-18.276	64.596
3392	1530	-15.028	64.343
3393	1530	-11.781	64.088
3394	1530	-5.89	63.887
3395	1530	0	63.947
3396	1530	5.89	63.887
3397	1530	11.781	64.088
3398	1530	15.028	64.343
3399	1530	18.276	64.596
3400	1530	21.631	64.855
3401	1530	24.986	65.11
3402	1560	-24.986	64.833
3403	1560	-21.631	64.578
3404	1560	-18.276	64.32
3405	1560	-15.028	64.066
3406	1560	-11.781	63.811
3407	1560	-5.89	63.61
3408	1560	0	63.67
3409	1560	5.89	63.61

3410	1560	11.781	63.811
3411	1560	15.028	64.066
3412	1560	18.276	64.32
3413	1560	21.631	64.578
3414	1560	24.986	64.833
3415	1590	-24.986	64.52
3416	1590	-21.631	64.25
3417	1590	-18.276	63.979
3418	1590	-15.028	63.715
3419	1590	-11.781	63.451
3420	1590	-5.89	63.243
3421	1590	0	63.302
3422	1590	5.89	63.243
3423	1590	11.781	63.451
3424	1590	15.028	63.715
3425	1590	18.276	63.979
3426	1590	21.631	64.25
3427	1590	24.986	64.52
3428	1620	-24.986	64.289
3429	1620	-21.631	64.044
3430	1620	-18.276	63.795
3431	1620	-15.028	63.552
3432	1620	-11.781	63.306
3433	1620	-5.89	63.117
3434	1620	0	63.178
3435	1620	5.89	63.117
3436	1620	11.781	63.306
3437	1620	15.028	63.552
3438	1620	18.276	63.795
3439	1620	21.631	64.044

3440	1620	24.986	64.289
3441	1680	-24.986	63.682
3442	1680	-21.631	63.409
3443	1680	-18.276	63.136
3444	1680	-15.028	62.871
3445	1680	-11.781	62.606
3446	1680	-5.89	62.399
3447	1680	0	62.458
3448	1680	5.89	62.399
3449	1680	11.781	62.606
3450	1680	15.028	62.871
3451	1680	18.276	63.136
3452	1680	21.631	63.409
3453	1680	24.986	63.682
3454	1710	-24.986	63.412
3455	1710	-21.631	63.142
3456	1710	-18.276	62.871
3457	1710	-15.028	62.607
3458	1710	-11.781	62.344
3459	1710	-5.89	62.135
3460	1710	0	62.194
3461	1710	5.89	62.135
3462	1710	11.781	62.344
3463	1710	15.028	62.607
3464	1710	18.276	62.871
3465	1710	21.631	63.142
3466	1710	24.986	63.412
3467	1740	-24.986	63.171
3468	1740	-21.631	62.916
3469	1740	-18.276	62.658

3470	1740	-15.028	62.405
3471	1740	-11.781	62.15
3472	1740	-5.89	61.948
3473	1740	0	62.008
3474	1740	5.89	61.948
3475	1740	11.781	62.15
3476	1740	15.028	62.405
3477	1740	18.276	62.658
3478	1740	21.631	62.916
3479	1740	24.986	63.171
3480	1770	-24.986	62.887
3481	1770	-21.631	62.632
3482	1770	-18.276	62.374
3483	1770	-15.028	62.121
3484	1770	-11.781	61.867
3485	1770	-5.89	61.669
3486	1770	0	61.73
3487	1770	5.89	61.669
3488	1770	11.781	61.867
3489	1770	15.028	62.121
3490	1770	18.276	62.374
3491	1770	21.631	62.632
3492	1770	24.986	62.887
3493	1817.75	-24.776	62.048
3494	1817.75	-21.526	62.048
3495	1817.75	-18.276	62.048
3496	1817.75	-16.888	62.048
3497	1817.75	-15.5	62.048
3498	1817.75	-11.625	62.048
3499	1817.75	-7.75	62.048

3500	1817.75	-3.875	62.048	
3501	1817.75	0	62.048	
3502	1817.75	3.875	62.048	
3503	1817.75	7.75	62.048	
3504	1817.75	11.625	62.048	
3505	1817.75	15.5	62.048	
3506	1817.75	16.888	62.048	
3507	1817.75	18.276	62.048	
3508	1817.75	21.526	62.048	
3509	1817.75	24.776	62.048	
**	*egroup 12: fondazione torre Sicilia			
3513	-1650	-39.225	-15.1	
3514	-1650	-39.225	-15.1	
*	3515	-1650	-39.225	-15
*	3516	-1650	-39.225	-11.75
	3517	-1650	-39.225	-8.5
	3518	-1650	-39.225	-4.125
	3519	-1650	-39.225	0.25
*	3520	-1650	-39.225	2.45
	3521	-1650	-39.225	4.65
*	*egroup 9: torre Sicilia			
	3522	-1650	-39.225	18
	3523	-1650	-39.137	20.5
	3524	-1650	-39.05	23
	3525	-1650	-38.962	25.5
	3526	-1650	-38.875	28
	3527	-1650	-38.77	31
	3528	-1650	-38.665	34
	3529	-1650	-38.56	37
	3530	-1650	-38.455	40

3531	-1650	-38.389	41.875
3532	-1650	-38.323	43.75
3533	-1650	-38.258	45.625
3534	-1650	-38.192	47.5
3535	-1650	-38.126	49.375
3536	-1650	-38.061	51.25
3537	-1650	-37.995	53.125
3538	-1650	-37.929	55
3539	-1650	-37.836	57.667
3540	-1650	-37.742	60.333
3541	-1650	-37.649	63
3542	-1650	-37.556	65.667
3543	-1650	-37.462	68.333
3544	-1650	-37.369	71
3545	-1650	-37.229	75
3546	-1650	-37.089	79
3547	-1650	-36.949	83
3548	-1650	-36.808	87
3549	-1650	-36.651	91.5
3550	-1650	-36.493	96
3551	-1650	-36.336	100.5
3552	-1650	-36.178	105
3553	-1650	-36.015	109.647
3554	-1650	-35.853	114.295
3555	-1650	-35.69	118.942
3556	-1650	-35.527	123.59
3557	-1650	-35.523	123.692
3558	-1650	-35.52	123.795
3559	-1650	-35.516	123.897
3560	-1650	-35.513	124

3561	-1650	-35.346	128.75
3562	-1650	-35.18	133.5
3563	-1650	-35.014	138.25
3564	-1650	-34.847	143
3565	-1650	-34.672	148
3566	-1650	-34.497	153
3567	-1650	-34.322	158
3568	-1650	-34.147	163
3569	-1650	-33.972	168
3570	-1650	-33.797	173
3571	-1650	-33.621	178
3572	-1650	-33.446	183
3573	-1650	-33.271	188
3574	-1650	-33.096	193
3575	-1650	-32.921	198
3576	-1650	-32.746	203
3577	-1650	-32.571	208
3578	-1650	-32.396	213
3579	-1650	-32.221	218
3580	-1650	-32.045	223
3581	-1650	-31.87	228
3582	-1650	-31.695	233
3583	-1650	-31.52	238
3584	-1650	-31.345	243
3585	-1650	-31.292	244.515
3586	-1650	-31.239	246.03
3587	-1650	-31.186	247.545
3588	-1650	-31.133	249.06
3589	-1650	-31.011	252.545
3590	-1650	-30.889	256.03

3591	-1650	-30.767	259.515
3592	-1650	-30.645	263
3593	-1650	-30.469	268
3594	-1650	-30.294	273
3595	-1650	-30.119	278
3596	-1650	-29.944	283
3597	-1650	-29.769	288
3598	-1650	-29.594	293
3599	-1650	-29.419	298
3600	-1650	-29.244	303
3601	-1650	-29.069	308
3602	-1650	-28.893	313
3603	-1650	-28.718	318
3604	-1650	-28.543	323
3605	-1650	-28.386	327.5
3606	-1650	-28.228	332
3607	-1650	-28.07	336.5
3608	-1650	-27.913	341
3609	-1650	-27.769	345.1
3610	-1650	-27.626	349.2
3611	-1650	-27.482	353.3
3612	-1650	-27.339	357.4
3613	-1650	-27.229	360.525
3614	-1650	-27.12	363.65
3615	-1650	-27.01	366.775
3616	-1650	-26.901	369.9
3617	-1650	-26.86	371.057
3618	-1650	-26.82	372.215
3619	-1650	-26.779	373.373
3620	-1650	-26.739	374.53

3621	-1650	-26.659	376.802
3622	-1650	-26.579	379.075
3623	-1650	-26.5	381.347
3624	-1650	-26.42	383.619
3625	-1650	-26.315	386.619
3626	-1650	-26.21	389.619
3627	-1650	-26.105	392.619
3628	-1650	-26	395.619
*	*egroup 12: fondazione torre Sicilia		
3629	-1650	39.225	-15.1
3630	-1650	39.225	-15.1
*	3631	-1650 39.225	-15
*	3632	-1650 39.225	-11.75
	3633	-1650 39.225	-8.5
	3634	-1650 39.225	-4.125
	3635	-1650 39.225	0.25
*	3636	-1650 39.225	2.45
	3637	-1650 39.225	4.65
*	*		
	3638	-1650 39.225	18
	3639	-1650 39.137	20.5
	3640	-1650 39.05	23
	3641	-1650 38.962	25.5
	3642	-1650 38.875	28
	3643	-1650 38.77	31
	3644	-1650 38.665	34
	3645	-1650 38.56	37
	3646	-1650 38.455	40
	3647	-1650 38.389	41.875
	3648	-1650 38.323	43.75

3649	-1650	38.258	45.625
3650	-1650	38.192	47.5
3651	-1650	38.126	49.375
3652	-1650	38.061	51.25
3653	-1650	37.995	53.125
3654	-1650	37.929	55
3655	-1650	37.836	57.667
3656	-1650	37.742	60.333
3657	-1650	37.649	63
3658	-1650	37.556	65.667
3659	-1650	37.462	68.333
3660	-1650	37.369	71
3661	-1650	37.229	75
3662	-1650	37.089	79
3663	-1650	36.949	83
3664	-1650	36.808	87
3665	-1650	36.651	91.5
3666	-1650	36.493	96
3667	-1650	36.336	100.5
3668	-1650	36.178	105
3669	-1650	36.015	109.647
3670	-1650	35.853	114.295
3671	-1650	35.69	118.942
3672	-1650	35.527	123.59
3673	-1650	35.523	123.692
3674	-1650	35.52	123.795
3675	-1650	35.516	123.897
3676	-1650	35.513	124
3677	-1650	35.346	128.75
3678	-1650	35.18	133.5

3679	-1650	35.014	138.25
3680	-1650	34.847	143
3681	-1650	34.672	148
3682	-1650	34.497	153
3683	-1650	34.322	158
3684	-1650	34.147	163
3685	-1650	33.972	168
3686	-1650	33.797	173
3687	-1650	33.621	178
3688	-1650	33.446	183
3689	-1650	33.271	188
3690	-1650	33.096	193
3691	-1650	32.921	198
3692	-1650	32.746	203
3693	-1650	32.571	208
3694	-1650	32.396	213
3695	-1650	32.221	218
3696	-1650	32.045	223
3697	-1650	31.87	228
3698	-1650	31.695	233
3699	-1650	31.52	238
3700	-1650	31.345	243
3701	-1650	31.292	244.515
3702	-1650	31.239	246.03
3703	-1650	31.186	247.545
3704	-1650	31.133	249.06
3705	-1650	31.011	252.545
3706	-1650	30.889	256.03
3707	-1650	30.767	259.515
3708	-1650	30.645	263

3709	-1650	30.469	268
3710	-1650	30.294	273
3711	-1650	30.119	278
3712	-1650	29.944	283
3713	-1650	29.769	288
3714	-1650	29.594	293
3715	-1650	29.419	298
3716	-1650	29.244	303
3717	-1650	29.069	308
3718	-1650	28.893	313
3719	-1650	28.718	318
3720	-1650	28.543	323
3721	-1650	28.386	327.5
3722	-1650	28.228	332
3723	-1650	28.07	336.5
3724	-1650	27.913	341
3725	-1650	27.769	345.1
3726	-1650	27.626	349.2
3727	-1650	27.482	353.3
3728	-1650	27.339	357.4
3729	-1650	27.229	360.525
3730	-1650	27.12	363.65
3731	-1650	27.01	366.775
3732	-1650	26.901	369.9
3733	-1650	26.86	371.057
3734	-1650	26.82	372.215
3735	-1650	26.779	373.373
3736	-1650	26.739	374.53
3737	-1650	26.659	376.802
3738	-1650	26.579	379.075

3739	-1650	26.5	381.347
3740	-1650	26.42	383.619
3741	-1650	26.315	386.619
3742	-1650	26.21	389.619
3743	-1650	26.105	392.619
3744	-1650	26	395.619
3745	-1650	-29.531	123.477
3746	-1650	-25.136	248.957
3747	-1650	-24.607	123.539
3748	-1650	-20.945	249.013
3749	-1650	-20.742	374.439
3750	-1650	-19.685	123.59
3751	-1650	-17.283	374.488
3752	-1650	-16.755	249.06
3753	-1650	-14.764	123.59
3754	-1650	-13.826	374.53
3755	-1650	-12.566	249.06
3756	-1650	-11.725	-3.25
3757	-1650	-10.369	374.53
3758	-1650	-9.842	123.59
3759	-1650	-8.378	249.06
3760	-1650	-6.913	374.53
3761	-1650	-5.862	-3.25
3762	-1650	-4.921	123.59
3763	-1650	-4.189	249.06
3764	-1650	-3.456	374.53
3765	-1650	0	-3.25
3766	-1650	0	123.59
3767	-1650	0	249.06
3768	-1650	0	374.53

3769	-1650	3.456	374.53	
3770	-1650	4.189	249.06	
3771	-1650	4.921	123.59	
3772	-1650	5.862	-3.25	
3773	-1650	6.913	374.53	
3774	-1650	8.378	249.06	
3775	-1650	9.842	123.59	
3776	-1650	10.369	374.53	
3777	-1650	11.725	-3.25	
3778	-1650	12.566	249.06	
3779	-1650	13.826	374.53	
3780	-1650	14.764	123.59	
3781	-1650	16.755	249.06	
3782	-1650	17.283	374.488	
3783	-1650	19.685	123.59	
3784	-1650	20.742	374.439	
3785	-1650	20.945	249.013	
3786	-1650	24.607	123.539	
3787	-1650	25.136	248.957	
3788	-1650	29.531	123.477	
*	*egroup 13: fondazione torre Calabria			
3789	1650	-39.225	-15.1	
3790	1650	-39.225	-15.1	
*	3791	1650	-39.225	-15
*	3792	1650	-39.225	-11.75
	3793	1650	-39.225	-8.5
	3794	1650	-39.225	-4.125
	3795	1650	-39.225	0.25
*	3796	1650	-39.225	2.45
	3797	1650	-39.225	4.65

* *egroup 10: torre Calabria

3798	1650	-39.225	18
3799	1650	-39.137	20.5
3800	1650	-39.05	23
3801	1650	-38.962	25.5
3802	1650	-38.875	28
3803	1650	-38.77	31
3804	1650	-38.665	34
3805	1650	-38.56	37
3806	1650	-38.455	40
3807	1650	-38.389	41.875
3808	1650	-38.323	43.75
3809	1650	-38.258	45.625
3810	1650	-38.192	47.5
3811	1650	-38.126	49.375
3812	1650	-38.061	51.25
3813	1650	-37.995	53.125
3814	1650	-37.929	55
3815	1650	-37.836	57.667
3816	1650	-37.742	60.333
3817	1650	-37.649	63
3818	1650	-37.556	65.667
3819	1650	-37.462	68.333
3820	1650	-37.369	71
3821	1650	-37.229	75
3822	1650	-37.089	79
3823	1650	-36.949	83
3824	1650	-36.808	87
3825	1650	-36.651	91.5
3826	1650	-36.493	96

3827	1650	-36.336	100.5
3828	1650	-36.178	105
3829	1650	-36.015	109.647
3830	1650	-35.853	114.295
3831	1650	-35.69	118.942
3832	1650	-35.527	123.59
3833	1650	-35.523	123.692
3834	1650	-35.52	123.795
3835	1650	-35.516	123.897
3836	1650	-35.513	124
3837	1650	-35.346	128.75
3838	1650	-35.18	133.5
3839	1650	-35.014	138.25
3840	1650	-34.847	143
3841	1650	-34.672	148
3842	1650	-34.497	153
3843	1650	-34.322	158
3844	1650	-34.147	163
3845	1650	-33.972	168
3846	1650	-33.797	173
3847	1650	-33.621	178
3848	1650	-33.446	183
3849	1650	-33.271	188
3850	1650	-33.096	193
3851	1650	-32.921	198
3852	1650	-32.746	203
3853	1650	-32.571	208
3854	1650	-32.396	213
3855	1650	-32.221	218
3856	1650	-32.045	223

3857	1650	-31.87	228
3858	1650	-31.695	233
3859	1650	-31.52	238
3860	1650	-31.345	243
3861	1650	-31.292	244.515
3862	1650	-31.239	246.03
3863	1650	-31.186	247.545
3864	1650	-31.133	249.06
3865	1650	-31.011	252.545
3866	1650	-30.889	256.03
3867	1650	-30.767	259.515
3868	1650	-30.645	263
3869	1650	-30.469	268
3870	1650	-30.294	273
3871	1650	-30.119	278
3872	1650	-29.944	283
3873	1650	-29.769	288
3874	1650	-29.594	293
3875	1650	-29.419	298
3876	1650	-29.244	303
3877	1650	-29.069	308
3878	1650	-28.893	313
3879	1650	-28.718	318
3880	1650	-28.543	323
3881	1650	-28.386	327.5
3882	1650	-28.228	332
3883	1650	-28.07	336.5
3884	1650	-27.913	341
3885	1650	-27.769	345.1
3886	1650	-27.626	349.2

	3887	1650	-27.482	353.3
	3888	1650	-27.339	357.4
	3889	1650	-27.229	360.525
	3890	1650	-27.12	363.65
	3891	1650	-27.01	366.775
	3892	1650	-26.901	369.9
	3893	1650	-26.86	371.057
	3894	1650	-26.82	372.215
	3895	1650	-26.779	373.373
	3896	1650	-26.739	374.53
	3897	1650	-26.659	376.802
	3898	1650	-26.579	379.075
	3899	1650	-26.5	381.347
	3900	1650	-26.42	383.619
	3901	1650	-26.315	386.619
	3902	1650	-26.21	389.619
	3903	1650	-26.105	392.619
	3904	1650	-26	395.619
	3905	1650	39.225	-15.1
	3906	1650	39.225	-15.1
*	3907	1650	39.225	-15
*	3908	1650	39.225	-11.75
	3909	1650	39.225	-8.5
	3910	1650	39.225	-4.125
	3911	1650	39.225	0.25
*	3912	1650	39.225	2.45
	3913	1650	39.225	4.65
	3914	1650	39.225	18
	3915	1650	39.137	20.5
	3916	1650	39.05	23

3917	1650	38.962	25.5
3918	1650	38.875	28
3919	1650	38.77	31
3920	1650	38.665	34
3921	1650	38.56	37
3922	1650	38.455	40
3923	1650	38.389	41.875
3924	1650	38.323	43.75
3925	1650	38.258	45.625
3926	1650	38.192	47.5
3927	1650	38.126	49.375
3928	1650	38.061	51.25
3929	1650	37.995	53.125
3930	1650	37.929	55
3931	1650	37.836	57.667
3932	1650	37.742	60.333
3933	1650	37.649	63
3934	1650	37.556	65.667
3935	1650	37.462	68.333
3936	1650	37.369	71
3937	1650	37.229	75
3938	1650	37.089	79
3939	1650	36.949	83
3940	1650	36.808	87
3941	1650	36.651	91.5
3942	1650	36.493	96
3943	1650	36.336	100.5
3944	1650	36.178	105
3945	1650	36.015	109.647
3946	1650	35.853	114.295

3947	1650	35.69	118.942
3948	1650	35.527	123.59
3949	1650	35.523	123.692
3950	1650	35.52	123.795
3951	1650	35.516	123.897
3952	1650	35.513	124
3953	1650	35.346	128.75
3954	1650	35.18	133.5
3955	1650	35.014	138.25
3956	1650	34.847	143
3957	1650	34.672	148
3958	1650	34.497	153
3959	1650	34.322	158
3960	1650	34.147	163
3961	1650	33.972	168
3962	1650	33.797	173
3963	1650	33.621	178
3964	1650	33.446	183
3965	1650	33.271	188
3966	1650	33.096	193
3967	1650	32.921	198
3968	1650	32.746	203
3969	1650	32.571	208
3970	1650	32.396	213
3971	1650	32.221	218
3972	1650	32.045	223
3973	1650	31.87	228
3974	1650	31.695	233
3975	1650	31.52	238
3976	1650	31.345	243

3977	1650	31.292	244.515
3978	1650	31.239	246.03
3979	1650	31.186	247.545
3980	1650	31.133	249.06
3981	1650	31.011	252.545
3982	1650	30.889	256.03
3983	1650	30.767	259.515
3984	1650	30.645	263
3985	1650	30.469	268
3986	1650	30.294	273
3987	1650	30.119	278
3988	1650	29.944	283
3989	1650	29.769	288
3990	1650	29.594	293
3991	1650	29.419	298
3992	1650	29.244	303
3993	1650	29.069	308
3994	1650	28.893	313
3995	1650	28.718	318
3996	1650	28.543	323
3997	1650	28.386	327.5
3998	1650	28.228	332
3999	1650	28.07	336.5
4000	1650	27.913	341
4001	1650	27.769	345.1
4002	1650	27.626	349.2
4003	1650	27.482	353.3
4004	1650	27.339	357.4
4005	1650	27.229	360.525
4006	1650	27.12	363.65

4007	1650	27.01	366.775
4008	1650	26.901	369.9
4009	1650	26.86	371.057
4010	1650	26.82	372.215
4011	1650	26.779	373.373
4012	1650	26.739	374.53
4013	1650	26.659	376.802
4014	1650	26.579	379.075
4015	1650	26.5	381.347
4016	1650	26.42	383.619
4017	1650	26.315	386.619
4018	1650	26.21	389.619
4019	1650	26.105	392.619
4020	1650	26	395.619
4021	1650	-15.225	-3.25
4022	1650	-7.612	-3.25
4023	1650	0	-3.25
4024	1650	7.612	-3.25
4025	1650	15.225	-3.25
4026	1650	-29.531	123.477
4027	1650	29.531	123.477
4028	1650	-24.607	123.539
4029	1650	24.607	123.539
4030	1650	-19.685	123.59
4031	1650	-14.764	123.59
4032	1650	-9.842	123.59
4033	1650	-4.921	123.59
4034	1650	0	123.59
4035	1650	4.921	123.59
4036	1650	9.842	123.59

4037	1650	14.764	123.59
4038	1650	19.685	123.59
4039	1650	-25.136	248.957
4040	1650	25.136	248.957
4041	1650	-20.945	249.013
4042	1650	20.945	249.013
4043	1650	-16.755	249.06
4044	1650	-12.566	249.06
4045	1650	-8.378	249.06
4046	1650	-4.189	249.06
4047	1650	0	249.06
4048	1650	4.189	249.06
4049	1650	8.378	249.06
4050	1650	12.566	249.06
4051	1650	16.755	249.06
4052	1650	-20.742	374.439
4053	1650	20.742	374.439
4054	1650	-17.283	374.488
4055	1650	17.283	374.488
4056	1650	-13.826	374.53
4057	1650	-10.369	374.53
4058	1650	-6.913	374.53
4059	1650	-3.456	374.53
4060	1650	0	374.53
4061	1650	3.456	374.53
4062	1650	6.913	374.53
4063	1650	10.369	374.53
4064	1650	13.826	374.53

* *egroup 11 e egroup 16: crociere e link torri

4065	-1677	-18.276	53.223
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4066	-1677	18.276	53.223
4067	-1650	0	53.628
4068	-1650	31.29	53.628
4069	-1623	-18.276	54.033
4070	-1623	18.276	54.033
4071	1677	-18.276	60.796
4072	1677	18.276	60.796
4073	1650	0	61.045
4074	1623	-18.276	61.295
4075	1623	18.276	61.295

* *egroup 3: pendini y = -26 m

4076	-1833	-26	24.284
4077	-1770	-26	54.229
4078	-1740	-26	54.679
4079	-1710	-26	55.129
4080	-1680	-26	55.579
4081	-1620	-26	56.479
4082	-1590	-26	56.929
4083	-1560	-26	57.379
4084	-1530	-26	57.829
4085	-1500	-26	58.278
4086	-1470	-26	58.728
4087	-1440	-26	59.178
4088	-1410	-26	59.628
4089	-1380	-26	60.078
4090	-1350	-26	60.528
4091	-1320	-26	60.978
4092	-1290	-26	61.428
4093	-1260	-26	61.878
4094	-1230	-26	62.328

4095	-1200	-26	62.778
4096	-1170	-26	63.228
4097	-1140	-26	63.678
4098	-1110	-26	64.128
4099	-1080	-26	64.578
4100	-1050	-26	65.028
4101	-1020	-26	65.478
4102	-990	-26	65.928
4103	-960	-26	66.378
4104	-930	-26	66.827
4105	-900	-26	67.277
4106	-870	-26	67.727
4107	-840	-26	68.177
4108	-810	-26	68.627
4109	-780	-26	69.077
4110	-750	-26	69.527
4111	-720	-26	69.977
4112	-690	-26	70.427
4113	-660	-26	70.877
4114	-630	-26	71.327
4115	-600	-26	71.777
4116	-570	-26	72.227
4117	-540	-26	72.677
4118	-510	-26	73.127
4119	-480	-26	73.577
4120	-450	-26	74.027
4121	-420	-26	74.462
4122	-390	-26	74.867
4123	-360	-26	75.242
4124	-330	-26	75.586

4125	-300	-26	75.901
4126	-270	-26	76.186
4127	-240	-26	76.441
4128	-210	-26	76.666
4129	-180	-26	76.861
4130	-150	-26	77.026
4131	-120	-26	77.161
4132	-90	-26	77.266
4133	-60	-26	77.341
4134	-30	-26	77.386
4135	0	-26	77.401
4136	30	-26	77.386
4137	60	-26	77.341
4138	90	-26	77.266
4139	120	-26	77.161
4140	150	-26	77.026
4141	180	-26	76.861
4142	210	-26	76.666
4143	240	-26	76.44
4144	270	-26	76.185
4145	300	-26	75.909
4146	330	-26	75.632
4147	360	-26	75.355
4148	390	-26	75.078
4149	420	-26	74.801
4150	450	-26	74.525
4151	480	-26	74.248
4152	510	-26	73.971
4153	540	-26	73.694
4154	570	-26	73.417

4155	600	-26	73.14
4156	630	-26	72.863
4157	660	-26	72.586
4158	690	-26	72.309
4159	720	-26	72.032
4160	750	-26	71.755
4161	780	-26	71.478
4162	810	-26	71.201
4163	840	-26	70.924
4164	870	-26	70.647
4165	900	-26	70.37
4166	930	-26	70.093
4167	960	-26	69.816
4168	990	-26	69.539
4169	1020	-26	69.262
4170	1050	-26	68.985
4171	1080	-26	68.709
4172	1110	-26	68.432
4173	1140	-26	68.155
4174	1170	-26	67.878
4175	1200	-26	67.601
4176	1230	-26	67.324
4177	1260	-26	67.047
4178	1290	-26	66.77
4179	1320	-26	66.493
4180	1350	-26	66.216
4181	1380	-26	65.939
4182	1410	-26	65.662
4183	1440	-26	65.385
4184	1470	-26	65.108

4185	1500	-26	64.831
4186	1530	-26	64.554
4187	1560	-26	64.277
4188	1590	-26	64
4189	1620	-26	63.723
4190	1680	-26	63.169
4191	1710	-26	62.892
4192	1740	-26	62.616
4193	1770	-26	62.339
4194	1833	-26	46.757

* *egroup 4: pendini y = +26 m

4195	-1833	26	24.284
4196	-1770	26	54.229
4197	-1740	26	54.679
4198	-1710	26	55.129
4199	-1680	26	55.579
4200	-1620	26	56.479
4201	-1590	26	56.929
4202	-1560	26	57.379
4203	-1530	26	57.829
4204	-1500	26	58.278
4205	-1470	26	58.728
4206	-1440	26	59.178
4207	-1410	26	59.628
4208	-1380	26	60.078
4209	-1350	26	60.528
4210	-1320	26	60.978
4211	-1290	26	61.428
4212	-1260	26	61.878
4213	-1230	26	62.328

4214	-1200	26	62.778
4215	-1170	26	63.228
4216	-1140	26	63.678
4217	-1110	26	64.128
4218	-1080	26	64.578
4219	-1050	26	65.028
4220	-1020	26	65.478
4221	-990	26	65.928
4222	-960	26	66.378
4223	-930	26	66.827
4224	-900	26	67.277
4225	-870	26	67.727
4226	-840	26	68.177
4227	-810	26	68.627
4228	-780	26	69.077
4229	-750	26	69.527
4230	-720	26	69.977
4231	-690	26	70.427
4232	-660	26	70.877
4233	-630	26	71.327
4234	-600	26	71.777
4235	-570	26	72.227
4236	-540	26	72.677
4237	-510	26	73.127
4238	-480	26	73.577
4239	-450	26	74.027
4240	-420	26	74.462
4241	-390	26	74.867
4242	-360	26	75.242
4243	-330	26	75.586

4244	-300	26	75.901
4245	-270	26	76.186
4246	-240	26	76.441
4247	-210	26	76.666
4248	-180	26	76.861
4249	-150	26	77.026
4250	-120	26	77.161
4251	-90	26	77.266
4252	-60	26	77.341
4253	-30	26	77.386
4254	0	26	77.401
4255	30	26	77.386
4256	60	26	77.341
4257	90	26	77.266
4258	120	26	77.161
4259	150	26	77.026
4260	180	26	76.861
4261	210	26	76.666
4262	240	26	76.44
4263	270	26	76.185
4264	300	26	75.909
4265	330	26	75.632
4266	360	26	75.355
4267	390	26	75.078
4268	420	26	74.801
4269	450	26	74.525
4270	480	26	74.248
4271	510	26	73.971
4272	540	26	73.694
4273	570	26	73.417

4274	600	26	73.14
4275	630	26	72.863
4276	660	26	72.586
4277	690	26	72.309
4278	720	26	72.032
4279	750	26	71.755
4280	780	26	71.478
4281	810	26	71.201
4282	840	26	70.924
4283	870	26	70.647
4284	900	26	70.37
4285	930	26	70.093
4286	960	26	69.816
4287	990	26	69.539
4288	1020	26	69.262
4289	1050	26	68.985
4290	1080	26	68.709
4291	1110	26	68.432
4292	1140	26	68.155
4293	1170	26	67.878
4294	1200	26	67.601
4295	1230	26	67.324
4296	1260	26	67.047
4297	1290	26	66.77
4298	1320	26	66.493
4299	1350	26	66.216
4300	1380	26	65.939
4301	1410	26	65.662
4302	1440	26	65.385
4303	1470	26	65.108

4304 1500 26 64.831
4305 1530 26 64.554
4306 1560 26 64.277
4307 1590 26 64
4308 1620 26 63.723
4309 1680 26 63.169
4310 1710 26 62.892
4311 1740 26 62.616
4312 1770 26 62.339
4313 1833 26 46.757

* *egroup 14: splay saddle

4314 -2608.301 -26 50.101
4315 -2608.301 26 50.101
4316 -2606.343 -26 46.185
4317 -2606.343 26 46.185
4318 2456.343 -26 110.685
4319 2456.343 26 110.685
4320 2458.3 -26 114.597
4321 2458.3 26 114.597

* *****

* *****

4332 1650 31.29 61.045
4333 -1907.6 -29.8254 53.6231
4334 -1904.88 -29.8254 53.6639
4335 -1904.88 -29.8047 55.259
4336 -1902.0765 -29.8047 55.301
4337 -1899.2668 -29.8047 55.3432
4338 -1896.4572 -29.8047 55.3853
4339 -1893.6475 -29.8047 55.4275

4340	-1890.8378	-29.8047	55.4696
4341	-1888	-29.8047	55.5122
4342	-1885.2184	-29.8047	55.5539
4343	-1882.4287	-29.8047	55.5957
4344	-1879.6391	-29.8047	55.6376
4345	-1876.8494	-29.8047	55.6794
4346	-1874.0597	-29.8047	55.7213
4347	-1871.2581	-29.8047	55.7633
4348	-1868.4684	-29.8047	55.8051
4349	-1865.6787	-29.8047	55.847
4350	-1862.8891	-29.8047	55.8888
4351	-1860.0994	-29.8047	55.9306
4352	-1857.3097	-29.8047	55.9725
4353	-1854.54	-29.8047	56.014
4354	-1852.1084	-29.8047	56.0505
4355	-1849.6787	-29.8047	56.0869
4356	-1847.2489	-29.8047	56.1234
4357	-1845.38	-29.8047	56.1541
4358	-1844.819	-29.8047	56.1625
4359	-1842.3798	-29.8047	56.1991
4360	-1840.0395	-29.8047	56.2342
4361	-1839.38	-29.8046	56.2371
4362	-1837.6898	-29.8046	56.2624
4363	-1835.3395	-29.8046	56.2976
4364	-1833	-29.8046	56.3327
4365	-1831.0496	-29.8046	56.362
4366	-1829.0998	-29.8046	56.3912
4367	-1827.1501	-29.8046	56.4204
4368	-1825.6252	-29.8046	56.4433
4369	-1824.1	-29.8329	54.8754

4370	-1824.1	-29.8046	56.4662
4371	-1821.4247	-29.8329	54.9155
4372	-1818.7494	-29.8329	54.9557
4373	-1816.0747	-29.8329	54.9958
4374	-1813.4	-29.8329	55.0359
4375	-1907.6	-29.2869	47.5505
4376	-1904.88	-29.5361	49.3658
4377	-1904.88	-29.2869	47.5913
4378	-1902.0765	-29.5361	49.4078
4379	-1899.2668	-29.5361	49.45
4380	-1896.4572	-29.5361	49.4921
4381	-1893.6475	-29.5361	49.5343
4382	-1890.8378	-29.5361	49.5764
4383	-1888	-29.5361	49.619
4384	-1885.2184	-29.5361	49.6607
4385	-1882.4287	-29.5361	49.7025
4386	-1879.6391	-29.5361	49.7444
4387	-1876.8494	-29.5361	49.7862
4388	-1874.0597	-29.5361	49.8281
4389	-1871.2581	-29.5361	49.8701
4390	-1868.4684	-29.5361	49.9119
4391	-1865.6787	-29.5361	49.9538
4392	-1862.8891	-29.5361	49.9956
4393	-1860.0994	-29.5361	50.0374
4394	-1857.3097	-29.5361	50.0793
4395	-1854.54	-29.5361	50.1208
4396	-1852.1084	-29.5361	50.1573
4397	-1849.6787	-29.5361	50.1937
4398	-1847.2489	-29.5361	50.2302
4399	-1845.38	-29.5361	50.2582

4400	-1844.8193	-29.5361	50.2666
4401	-1842.3801	-29.5361	50.3032
4402	-1840.0398	-29.5361	50.3383
4403	-1839.38	-29.535	50.3441
4404	-1837.6901	-29.535	50.3694
4405	-1835.3398	-29.535	50.4046
4406	-1833	-29.535	50.4397
4407	-1833	-29.4157	50.3672
4408	-1831.0499	-29.4157	50.3965
4409	-1829.1001	-29.4157	50.4257
4410	-1827.1504	-29.4157	50.4549
4411	-1825.6255	-29.4157	50.4778
4412	-1824.1	-29.4157	50.5007
4413	-1824.1	-29.3196	48.9334
4414	-1821.4247	-29.3196	48.9735
4415	-1818.7494	-29.3196	49.0137
4416	-1816.0747	-29.3196	49.0538
4417	-1813.4	-29.3196	49.0939
4418	-1907.6	-25.5235	47.8126
4419	-1904.88	-25.8194	50.9623
4420	-1904.88	-25.5235	47.8534
4421	-1902.0765	-25.8194	51.0043
4422	-1899.2668	-25.8194	51.0465
4423	-1896.4572	-25.8194	51.0886
4424	-1893.6475	-25.8194	51.1308
4425	-1890.8378	-25.8194	51.1729
4426	-1888	-25.8194	51.21547
4427	-1885.2184	-25.8194	51.2572
4428	-1882.4287	-25.8194	51.299
4429	-1879.6391	-25.8194	51.3409

4430	-1876.8494	-25.8194	51.3827
4431	-1874.0597	-25.8194	51.4246
4432	-1871.2581	-25.8194	51.4666
4433	-1868.4684	-25.8194	51.5084
4434	-1865.6787	-25.8194	51.5503
4435	-1862.8891	-25.8194	51.5921
4436	-1860.0994	-25.8194	51.6339
4437	-1857.3097	-25.8194	51.6758
4438	-1854.54	-25.8194	51.7173
4439	-1852.1084	-25.8194	51.7538
4440	-1849.6787	-25.8194	51.7902
4441	-1847.2489	-25.8194	51.8267
4442	-1845.38	-25.8222	51.8672
4443	-1845.38	-25.8194	51.8547
4444	-1844.8192	-25.8222	51.8756
4445	-1842.38	-25.8222	51.9122
4446	-1840.0397	-25.8222	51.9473
4447	-1839.38	-25.8796	51.6043
4448	-1839.38	-25.8222	51.9572
4449	-1837.69	-25.8796	51.6296
4450	-1835.3397	-25.8796	51.6648
4451	-1833	-25.8937	51.407
4452	-1833	-25.8796	51.6999
4453	-1831.0499	-25.8937	51.4363
4454	-1829.1001	-25.8937	51.4655
4455	-1827.1504	-25.8937	51.4947
4456	-1825.6255	-25.8937	51.5176
4457	-1824.1	-25.9605	48.9556
4458	-1824.1	-25.8937	51.5405
4459	-1821.4247	-25.9605	48.9957

4460	-1818.7494	-25.9605	49.0359
4461	-1816.0747	-25.9605	49.076
4462	-1813.4	-25.9605	49.1161
4463	-1907.6	-20.8278	47.6103
4464	-1904.88	-20.9455	51.397
4465	-1904.88	-20.8278	47.6511
4466	-1902.0765	-20.9455	51.439
4467	-1899.2668	-20.9455	51.4812
4468	-1896.4572	-20.9455	51.5233
4469	-1893.6475	-20.9455	51.5655
4470	-1890.8378	-20.9455	51.6076
4471	-1888	-20.9455	51.6502
4472	-1885.2184	-20.9455	51.6919
4473	-1882.4287	-20.9455	51.7337
4474	-1879.6391	-20.9455	51.7756
4475	-1876.8494	-20.9455	51.8174
4476	-1874.0597	-20.9455	51.8593
4477	-1871.2581	-20.9455	51.9013
4478	-1868.4684	-20.9455	51.9431
4479	-1865.6787	-20.9455	51.985
4480	-1862.8891	-20.9455	52.0268
4481	-1860.0994	-20.9455	52.0686
4482	-1857.3097	-20.9455	52.1105
4483	-1854.54	-20.9455	52.152
4484	-1852.1084	-20.9455	52.1885
4485	-1849.6787	-20.9455	52.2249
4486	-1847.2489	-20.9455	52.2614
4487	-1845.38	-20.9455	52.2894
4488	-1844.8192	-20.9455	52.2978
4489	-1842.38	-20.9455	52.3344

4490	-1840.0397	-20.9455	52.3695
4491	-1839.38	-21.0575	51.8798
4492	-1839.38	-20.9455	52.3794
4493	-1837.69	-21.0575	51.9051
4494	-1835.3397	-21.0575	51.9403
4495	-1833	-21.0734	51.6704
4496	-1833	-21.0575	51.9754
4497	-1831.0499	-21.0734	51.6997
4498	-1829.1001	-21.0734	51.7289
4499	-1827.1504	-21.0734	51.7581
4500	-1825.6255	-21.0734	51.781
4501	-1824.1	-21.0734	51.8039
4502	-1824.1	-20.7697	48.847
4503	-1821.4247	-20.7697	48.8871
4504	-1818.7494	-20.7697	48.9273
4505	-1816.0747	-20.7697	48.9674
4506	-1813.4	-20.7697	49.0075
4507	-1907.6	-16.0733	47.7188
4508	-1904.88	-16.0733	47.7596
4509	-1904.88	-15.5284	50.9255
4510	-1902.0765	-15.5284	50.9675
4511	-1899.2668	-15.5284	51.0097
4512	-1896.4572	-15.5284	51.0518
4513	-1893.6475	-15.5284	51.094
4514	-1890.8378	-15.5284	51.1361
4515	-1888	-15.5284	51.1787
4516	-1885.2184	-15.5284	51.2204
4517	-1882.4287	-15.5284	51.2622
4518	-1879.6391	-15.5284	51.3041
4519	-1876.8494	-15.5284	51.3459

4520	-1874.0597	-15.5284	51.3878
4521	-1871.2581	-15.5284	51.4298
4522	-1868.4684	-15.5284	51.4716
4523	-1865.6787	-15.5284	51.5135
4524	-1862.8891	-15.5284	51.5553
4525	-1860.0994	-15.5284	51.5971
4526	-1857.3097	-15.5284	51.639
4527	-1854.54	-15.5284	51.6805
4528	-1852.1084	-15.5284	51.717
4529	-1849.6787	-15.5284	51.7534
4530	-1847.2489	-15.5284	51.7899
4531	-1845.38	-15.5283	51.8176
4532	-1844.8192	-15.5283	51.826
4533	-1842.38	-15.5283	51.8626
4534	-1840.0397	-15.5283	51.8977
4535	-1839.38	-15.5651	51.4997
4536	-1839.38	-15.5283	51.9076
4537	-1837.6901	-15.5651	51.525
4538	-1835.3398	-15.5651	51.5602
4539	-1833	-15.5709	51.3857
4540	-1833	-15.5651	51.5953
4541	-1831.0499	-15.5709	51.415
4542	-1829.1001	-15.5709	51.4442
4543	-1827.1504	-15.5709	51.4734
4544	-1825.6255	-15.5709	51.4963
4545	-1824.1	-15.5709	51.5192
4546	-1824.1	-15.5	48.9655
4547	-1821.4247	-15.5	49.0056
4548	-1818.7494	-15.5	49.0458
4549	-1817.75	-15.5	49.06585

4550	-1816.0747	-15.5	49.0859
4551	-1813.4	-15.5	49.126
4552	-1907.6	-10.2561	47.5484
4553	-1904.88	-10.2695	51.2489
4554	-1904.88	-10.2561	47.5892
4555	-1902.0765	-10.2695	51.2909
4556	-1899.2668	-10.2695	51.3331
4557	-1896.4572	-10.2695	51.3752
4558	-1893.6475	-10.2695	51.4174
4559	-1890.8378	-10.2695	51.4595
4560	-1888	-10.2695	51.5021
4561	-1885.2184	-10.2695	51.5438
4562	-1882.4287	-10.2695	51.5856
4563	-1879.6391	-10.2695	51.6275
4564	-1876.8494	-10.2695	51.6693
4565	-1874.0597	-10.2695	51.7112
4566	-1871.2581	-10.2695	51.7532
4567	-1868.4684	-10.2695	51.795
4568	-1865.6787	-10.2695	51.8369
4569	-1862.8891	-10.2695	51.8787
4570	-1860.0994	-10.2695	51.9205
4571	-1857.3097	-10.2695	51.9624
4572	-1854.54	-10.2695	52.0039
4573	-1852.1084	-10.2695	52.0404
4574	-1849.6787	-10.2695	52.0768
4575	-1847.2489	-10.2695	52.1133
4576	-1845.38	-10.2694	52.1412
4577	-1844.8192	-10.2694	52.1496
4578	-1842.38	-10.2694	52.1862
4579	-1840.0397	-10.2694	52.2213

4580	-1839.38	-10.2694	52.2312
4581	-1839.38	-10.2666	51.7432
4582	-1837.69	-10.2666	51.7685
4583	-1835.3397	-10.2666	51.8037
4584	-1833	-10.2666	51.8388
4585	-1833	-10.2637	51.5592
4586	-1831.0499	-10.2637	51.5885
4587	-1829.1001	-10.2637	51.6177
4588	-1827.1504	-10.2637	51.6469
4589	-1825.6255	-10.2637	51.6698
4590	-1824.1	-10.4091	48.8452
4591	-1824.1	-10.2637	51.6927
4592	-1821.4247	-10.4091	48.8853
4593	-1818.7494	-10.4091	48.9255
4594	-1816.0747	-10.4091	48.9656
4595	-1813.4	-10.4091	49.0057
4596	-1907.6	-4.8711	47.7126
4597	-1904.88	-5.0655	51.2573
4598	-1904.88	-4.8711	47.7534
4599	-1902.0765	-5.0655	51.299
4600	-1899.2668	-5.0655	51.3413
4601	-1896.4572	-5.0655	51.3836
4602	-1893.6475	-5.0655	51.4258
4603	-1890.8378	-5.0655	51.4679
4604	-1888	-5.0655	51.5105
4605	-1885.2184	-5.0655	51.5522
4606	-1882.4287	-5.0655	51.594
4607	-1879.6391	-5.0655	51.6359
4608	-1876.8494	-5.0655	51.6777
4609	-1874.0597	-5.0655	51.7196

4610	-1871.2581	-5.0655	51.7616
4611	-1868.4684	-5.0655	51.8034
4612	-1865.6787	-5.0655	51.8453
4613	-1862.8891	-5.0655	51.8871
4614	-1860.0994	-5.0655	51.9289
4615	-1857.3097	-5.0655	51.9708
4616	-1854.54	-5.3659	50.7222
4617	-1854.54	-5.0655	52.012
4618	-1852.1084	-5.3659	50.7587
4619	-1849.6787	-5.3659	50.7951
4620	-1847.2489	-5.3659	50.8316
4621	-1845.38	-5.4088	51.3014
4622	-1845.38	-5.3659	50.8596
4623	-1844.8193	-5.4088	51.3098
4624	-1842.3801	-5.4088	51.3464
4625	-1840.0398	-5.4088	51.3815
4626	-1839.38	-5.4088	51.3914
4627	-1839.38	-5.3659	50.9496
4628	-1837.6901	-5.3659	50.9749
4629	-1835.3398	-5.3659	51.0101
4630	-1833	-5.4626	51.048
4631	-1833	-5.3659	51.0452
4632	-1831.0499	-5.4626	51.0773
4633	-1829.1001	-5.4626	51.1065
4634	-1827.1504	-5.4626	51.1357
4635	-1825.6255	-5.4626	51.1586
4636	-1824.1	-5.4626	51.1815
4637	-1824.1	-5.0971	48.9604
4638	-1821.419	-5.0971	49.0006
4639	-1818.7437	-5.0971	49.0407

4640	-1816.069	-5.0971	49.0809
4641	-1813.4	-5.0971	49.1209
4642	-1907.6	0	47.7547
4643	-1904.88	0	47.7955
4644	-1854.54	0	48.4909
4645	-1852.1084	0	48.5274
4646	-1849.6787	0	48.5638
4647	-1847.2489	0	48.6003
4648	-1845.38	0	48.6283
4649	-1839.38	0	48.7183
4650	-1837.6902	0	48.7436
4651	-1835.3399	0	48.7788
4652	-1833 0	48.8139	
4653	-1831.05	0	48.8432
4654	-1829.1002	0	48.8724
4655	-1827.1505	0	48.9016
4656	-1825.6256	0	48.9245
4657	-1824.1	0	48.9474
4658	-1845.38	0	48.9806
4659	-1844.8194	0	48.989
4660	-1842.3802	0	49.0256
4661	-1840.0399	0	49.0607
4662	-1839.38	0	49.0706
4663	-1824.1	0	49.3412
4664	-1821.4247	0	49.3813
4665	-1818.7494	0	49.4215
4666	-1817.75	0	49.44155
4667	-1816.0747	0	49.4616
4668	-1813.4	0	49.5017
4669	-1904.88	0	51.3301

4670	-1902.0765	0	51.3721
4671	-1899.2668	0	51.4143
4672	-1896.4572	0	51.4564
4673	-1893.6475	0	51.4986
4674	-1890.8378	0	51.5407
4675	-1888	0	51.5833
4676	-1885.2184	0	51.625
4677	-1882.4287	0	51.6668
4678	-1879.6391	0	51.7087
4679	-1876.8494	0	51.7505
4680	-1874.0597	0	51.7924
4681	-1871.2581	0	51.8344
4682	-1868.4684	0	51.8762
4683	-1865.6787	0	51.9181
4684	-1862.8891	0	51.9599
4685	-1860.0994	0	52.0017
4686	-1857.3097	0	52.0436
4687	-1854.54	0	52.0851
4688	-1907.6	4.8711	47.7126
4689	-1904.88	4.8711	47.7534
4690	-1904.88	5.0655	51.2573
4691	-1902.0765	5.0655	51.299
4692	-1899.2668	5.0655	51.3413
4693	-1896.4572	5.0655	51.3836
4694	-1893.6475	5.0655	51.4258
4695	-1890.8378	5.0655	51.4679
4696	-1888	5.0655	51.5105
4697	-1885.2184	5.0655	51.5522
4698	-1882.4287	5.0655	51.594
4699	-1879.6391	5.0655	51.6359

4700	-1876.8494	5.0655	51.6777
4701	-1874.0597	5.0655	51.7196
4702	-1871.2581	5.0655	51.7616
4703	-1868.4684	5.0655	51.8034
4704	-1865.6787	5.0655	51.8453
4705	-1862.8891	5.0655	51.8871
4706	-1860.0994	5.0655	51.9289
4707	-1857.3097	5.0655	51.9708
4708	-1854.54	5.0655	52.0123
4709	-1854.54	5.3659	50.7222
4710	-1852.1084	5.3659	50.7587
4711	-1849.6787	5.3659	50.7951
4712	-1847.2489	5.3659	50.8316
4713	-1845.38	5.3659	50.8596
4714	-1845.38	5.4088	51.3014
4715	-1844.8193	5.4088	51.3098
4716	-1842.3801	5.4088	51.3464
4717	-1840.0398	5.4088	51.3815
4718	-1839.38	5.3659	50.9496
4719	-1839.38	5.4088	51.3914
4720	-1837.6901	5.3659	50.9749
4721	-1835.3398	5.3659	51.0101
4722	-1833	5.3659	51.0452
4723	-1833	5.4626	51.048
4724	-1831.0499	5.4626	51.0773
4725	-1829.1001	5.4626	51.1065
4726	-1827.1504	5.4626	51.1357
4727	-1825.6255	5.4626	51.1586
4728	-1824.1	5.0971	48.9604
4729	-1824.1	5.4626	51.1815

4730	-1821.4247	5.0971	49.0005
4731	-1818.7494	5.0971	49.0407
4732	-1816.0747	5.0971	49.0808
4733	-1813.4	5.0971	49.1209
4734	-1907.6	10.2561	47.5484
4735	-1904.88	10.2561	47.5892
4736	-1904.88	10.2695	51.2489
4737	-1902.0765	10.2695	51.2909
4738	-1899.2668	10.2695	51.3331
4739	-1896.4572	10.2695	51.3752
4740	-1893.6475	10.2695	51.4174
4741	-1890.8378	10.2695	51.4595
4742	-1888	10.2695	51.5021
4743	-1885.2184	10.2695	51.5438
4744	-1882.4287	10.2695	51.5856
4745	-1879.6391	10.2695	51.6275
4746	-1876.8494	10.2695	51.6693
4747	-1874.0597	10.2695	51.7112
4748	-1871.2581	10.2695	51.7532
4749	-1868.4684	10.2695	51.795
4750	-1865.6787	10.2695	51.8369
4751	-1862.8891	10.2695	51.8787
4752	-1860.0994	10.2695	51.9205
4753	-1857.3097	10.2695	51.9624
4754	-1854.54	10.2695	52.0039
4755	-1852.1084	10.2695	52.0404
4756	-1849.6787	10.2695	52.0768
4757	-1847.2489	10.2695	52.1133
4758	-1845.38	10.2694	52.1412
4759	-1844.8192	10.2694	52.1496

4760	-1842.38	10.2694	52.1862
4761	-1840.0397	10.2694	52.2213
4762	-1839.38	10.2666	51.7432
4763	-1839.38	10.2694	52.2312
4764	-1837.69	10.2666	51.7685
4765	-1835.3397	10.2666	51.8037
4766	-1833	10.2637	51.5592
4767	-1833	10.2666	51.8388
4768	-1831.0499	10.2637	51.5885
4769	-1829.1001	10.2637	51.6177
4770	-1827.1504	10.2637	51.6469
4771	-1825.6255	10.2637	51.6698
4772	-1824.1	10.2637	51.6927
4773	-1824.1	10.4091	48.8452
4774	-1821.4229	10.4091	48.8854
4775	-1818.7476	10.4091	48.9255
4776	-1816.0729	10.4091	48.9656
4777	-1813.4	10.4091	49.0057
4778	-1907.6	16.0733	47.7188
4779	-1904.88	15.5284	50.9255
4780	-1904.88	16.0733	47.7596
4781	-1902.0765	15.5284	50.9675
4782	-1899.2668	15.5284	51.0097
4783	-1896.4572	15.5284	51.0518
4784	-1893.6475	15.5284	51.094
4785	-1890.8378	15.5284	51.1361
4786	-1888	15.5284	51.1787
4787	-1885.2184	15.5284	51.2204
4788	-1882.4287	15.5284	51.2622
4789	-1879.6391	15.5284	51.3041

4790	-1876.8494	15.5284	51.3459
4791	-1874.0597	15.5284	51.3878
4792	-1871.2581	15.5284	51.4298
4793	-1868.4684	15.5284	51.4716
4794	-1865.6787	15.5284	51.5135
4795	-1862.8891	15.5284	51.5553
4796	-1860.0994	15.5284	51.5971
4797	-1857.3097	15.5284	51.639
4798	-1854.54	15.5284	51.6805
4799	-1852.1084	15.5284	51.717
4800	-1849.6787	15.5284	51.7534
4801	-1847.2489	15.5284	51.7899
4802	-1845.38	15.5283	51.8176
4803	-1844.8192	15.5283	51.826
4804	-1842.38	15.5283	51.8626
4805	-1840.0397	15.5283	51.8977
4806	-1839.38	15.5283	51.9076
4807	-1839.38	15.5651	51.4997
4808	-1837.6901	15.5651	51.525
4809	-1835.3398	15.5651	51.5602
4810	-1833	15.5651	51.5953
4811	-1833	15.5709	51.3857
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4813	-1829.1001	15.5709	51.4442
4814	-1827.1504	15.5709	51.4734
4815	-1825.6255	15.5709	51.4963
4816	-1824.1	15.5	48.9655
4817	-1824.1	15.5709	51.5192
4818	-1821.4247	15.5	49.0056
4819	-1818.7494	15.5	49.0458

4820	-1817.75	15.5	49.06585
4821	-1816.0747	15.5	49.0859
4822	-1813.4	15.5	49.126
4823	-1907.6	20.8278	47.6103
4824	-1904.88	20.8278	47.6511
4825	-1904.88	20.9455	51.397
4826	-1902.0765	20.9455	51.439
4827	-1899.2668	20.9455	51.4812
4828	-1896.4572	20.9455	51.5233
4829	-1893.6475	20.9455	51.5655
4830	-1890.8378	20.9455	51.6076
4831	-1888	20.9455	51.6502
4832	-1885.2184	20.9455	51.6919
4833	-1882.4287	20.9455	51.7337
4834	-1879.6391	20.9455	51.7756
4835	-1876.8494	20.9455	51.8174
4836	-1874.0597	20.9455	51.8593
4837	-1871.2581	20.9455	51.9013
4838	-1868.4684	20.9455	51.9431
4839	-1865.6787	20.9455	51.985
4840	-1862.8891	20.9455	52.0268
4841	-1860.0994	20.9455	52.0686
4842	-1857.3097	20.9455	52.1105
4843	-1854.54	20.9455	52.152
4844	-1852.1084	20.9455	52.1885
4845	-1849.6787	20.9455	52.2249
4846	-1847.2489	20.9455	52.2614
4847	-1845.38	20.9455	52.2894
4848	-1844.8192	20.9455	52.2978
4849	-1842.38	20.9455	52.3344

4850	-1840.0397	20.9455	52.3695
4851	-1839.38	20.9455	52.3794
4852	-1839.38	21.0575	51.8798
4853	-1837.69	21.0575	51.9051
4854	-1835.3397	21.0575	51.9403
4855	-1833	21.0575	51.9754
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4857	-1831.0499	21.0734	51.6997
4858	-1829.1001	21.0734	51.7289
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4861	-1824.1	20.7697	48.847
4862	-1824.1	21.0734	51.8039
4863	-1821.4231	20.7697	48.8872
4864	-1818.7478	20.7697	48.9273
4865	-1816.0731	20.7697	48.9674
4866	-1813.4	20.7697	49.0075
4867	-1907.6	25.5235	47.8126
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4869	-1904.88	25.8194	50.9623
4870	-1902.0765	25.8194	51.0043
4871	-1899.2668	25.8194	51.0465
4872	-1896.4572	25.8194	51.0886
4873	-1893.6475	25.8194	51.1308
4874	-1890.8378	25.8194	51.1729
4875	-1888	25.8194	51.2155
4876	-1885.2184	25.8194	51.2572
4877	-1882.4287	25.8194	51.299
4878	-1879.6391	25.8194	51.3409
4879	-1876.8494	25.8194	51.3827

4880	-1874.0597	25.8194	51.4246
4881	-1871.2581	25.8194	51.4666
4882	-1868.4684	25.8194	51.5084
4883	-1865.6787	25.8194	51.5503
4884	-1862.8891	25.8194	51.5921
4885	-1860.0994	25.8194	51.6339
4886	-1857.3097	25.8194	51.6758
4887	-1854.54	25.8194	51.7173
4888	-1852.1084	25.8194	51.7538
4889	-1849.6787	25.8194	51.7902
4890	-1847.2489	25.8194	51.8267
4891	-1845.38	25.8194	51.8547
4892	-1845.38	25.8222	51.8672
4893	-1844.8192	25.8222	51.8756
4894	-1842.38	25.8222	51.9122
4895	-1840.0397	25.8222	51.9473
4896	-1839.38	25.8222	51.9572
4897	-1839.38	25.8796	51.6043
4898	-1837.69	25.8796	51.6296
4899	-1835.3397	25.8796	51.6648
4900	-1833	25.8796	51.6999
4901	-1833	25.8937	51.407
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4903	-1829.1001	25.8937	51.4655
4904	-1827.1504	25.8937	51.4947
4905	-1825.6255	25.8937	51.5176
4906	-1824.1	25.8937	51.5405
4907	-1824.1	25.9605	48.9556
4908	-1821.4247	25.9605	48.9957
4909	-1818.7494	25.9605	49.0359

4910	-1816.0747	25.9605	49.076
4911	-1813.4	25.9605	49.1161
4912	-1907.6	29.2869	47.5505
4913	-1904.88	29.2869	47.5913
4914	-1904.88	29.5361	49.3658
4915	-1902.0765	29.5361	49.4078
4916	-1899.2668	29.5361	49.45
4917	-1896.4572	29.5361	49.4921
4918	-1893.6475	29.5361	49.5343
4919	-1890.8378	29.5361	49.5764
4920	-1888	29.5361	49.619
4921	-1885.2184	29.5361	49.6607
4922	-1882.4287	29.5361	49.7025
4923	-1879.6391	29.5361	49.7444
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4925	-1874.0597	29.5361	49.8281
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4927	-1868.4684	29.5361	49.9119
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4930	-1860.0994	29.5361	50.0374
4931	-1857.3097	29.5361	50.0793
4932	-1854.54	29.5361	50.1208
4933	-1852.1084	29.5361	50.1573
4934	-1849.6787	29.5361	50.1937
4935	-1847.2489	29.5361	50.2302
4936	-1845.38	29.5361	50.2582
4937	-1844.8193	29.5361	50.2666
4938	-1842.3801	29.5361	50.3032
4939	-1840.0398	29.5361	50.3383

4940	-1839.38	29.535	50.3441
4941	-1837.6901	29.535	50.3694
4942	-1835.3398	29.535	50.4046
4943	-1833	29.4157	50.3672
4944	-1833	29.535	50.4397
4945	-1831.0499	29.4118	50.3965
4946	-1829.1001	29.4118	50.4257
4947	-1827.1504	29.4118	50.4549
4948	-1825.6255	29.4118	50.4778
4949	-1824.1	29.3196	48.9334
4950	-1824.1	29.4157	50.5007
4951	-1821.4247	29.3196	48.9735
4952	-1818.7494	29.3196	49.0137
4953	-1816.0747	29.3196	49.0538
4954	-1813.4	29.3196	49.0939
4955	-1907.6	29.8254	53.6231
4956	-1904.88	29.8047	55.259
4957	-1904.88	29.8254	53.6639
4958	-1902.0765	29.8047	55.301
4959	-1899.2668	29.8047	55.3432
4960	-1896.4572	29.8047	55.3853
4961	-1893.6475	29.8047	55.4275
4962	-1890.8378	29.8047	55.4696
4963	-1888	29.8047	55.5122
4964	-1885.2184	29.8047	55.5539
4965	-1882.4287	29.8047	55.5957
4966	-1879.6391	29.8047	55.6376
4967	-1876.8494	29.8047	55.6794
4968	-1874.0597	29.8047	55.7213
4969	-1871.2581	29.8047	55.7633

4970	-1868.4684	29.8047	55.8051
4971	-1865.6787	29.8047	55.847
4972	-1862.8891	29.8047	55.8888
4973	-1860.0994	29.8047	55.9306
4974	-1857.3097	29.8047	55.9725
4975	-1854.54	29.8047	56.014
4976	-1852.1084	29.8047	56.0505
4977	-1849.6787	29.8047	56.0869
4978	-1847.2489	29.8047	56.1234
4979	-1845.38	29.8047	56.1541
4980	-1844.819	29.8047	56.1625
4981	-1842.3798	29.8047	56.1991
4982	-1840.0395	29.8047	56.2342
4983	-1839.38	29.8046	56.2371
4984	-1837.6898	29.8046	56.2624
4985	-1835.3395	29.8046	56.2976
4986	-1833	29.8046	56.3327
4987	-1831.0496	29.8046	56.362
4988	-1829.0998	29.8046	56.3912
4989	-1827.1501	29.8046	56.4204
4990	-1825.6252	29.8046	56.4433
4991	-1824.1	29.8046	56.4662
4992	-1824.1	29.8329	54.8754
4993	-1821.4247	29.8329	54.9155
4994	-1818.7494	29.8329	54.9557
4995	-1816.0747	29.8329	54.9958
4996	-1813.4	29.8329	55.0359
*	*Traversi		
4997	-1907.6	-29.89	47.5501
4998	-1907.6	-29.8254	47.5501

5000	-1907.6	-25.5235	47.5501
5001	-1907.6	-20.8278	47.5501
5002	-1907.6	-16.0733	47.5501
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5005	-1907.6	0	47.5501
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5008	-1907.6	16.0733	47.5501
5009	-1907.6	20.8278	47.5501
5010	-1907.6	25.5235	47.5501
5012	-1907.6	29.8254	47.5501
5013	-1907.6	29.89	47.5501
5014	-1904.88	-29.89	51.5805
5015	-1904.88	-29.8047	51.5805
5016	-1904.88	-29.5361	51.5805
5017	-1904.88	-25.8194	51.5805
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5019	-1904.88	-15.5284	51.5805
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5031	-1904.88	29.8047	51.5805
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5049	-1902.0765	29.8047	51.6222
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5052	-1899.2668	-29.8047	51.6645
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5057	-1899.2668	-10.2695	51.6645
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5062	-1899.2668	15.5284	51.6645
5063	-1899.2668	20.9455	51.6645
5064	-1899.2668	25.8194	51.6645

5065	-1899.2668	29.5361	51.6645
5066	-1899.2668	29.8047	51.6645
5067	-1899.2668	29.89	51.6645
5068	-1896.4572	-29.89	51.7068
5069	-1896.4572	-29.8047	51.7068
5070	-1896.4572	-29.5361	51.7068
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5074	-1896.4572	-10.2695	51.7068
5075	-1896.4572	-5.0655	51.7068
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5078	-1896.4572	10.2695	51.7068
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5080	-1896.4572	20.9455	51.7068
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5082	-1896.4572	29.5361	51.7068
5083	-1896.4572	29.8047	51.7068
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5085	-1893.6475	-29.89	51.7491
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5100	-1893.6475	29.8047	51.7491
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5102	-1890.8378	-29.89	51.7914
5103	-1890.8378	-29.8047	51.7914
5104	-1890.8378	-29.5361	51.7914
5105	-1890.8378	-25.8194	51.7914
5106	-1890.8378	-20.9455	51.7914
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5116	-1890.8378	29.5361	51.7914
5117	-1890.8378	29.8047	51.7914
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5119	-1888	-29.89	51.8341
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5136	-1888	29.8047	51.8341
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5153	-1885.2184	29.8047	51.8758
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5157	-1882.4287	-29.5361	51.9177
5158	-1882.4287	-25.8194	51.9177
5159	-1882.4287	-20.9455	51.9177
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5165	-1882.4287	10.2695	51.9177
5166	-1882.4287	15.5284	51.9177
5167	-1882.4287	20.9455	51.9177
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5169	-1882.4287	29.5361	51.9177
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5191	-1876.8494	-29.5361	52.0013
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5238	-1871.2581	29.8047	52.0852
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5242	-1868.4684	-29.5361	52.127
5243	-1868.4684	-25.8194	52.127
5244	-1868.4684	-20.9455	52.127

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5252	-1868.4684	20.9455	52.127
5253	-1868.4684	25.8194	52.127
5254	-1868.4684	29.5361	52.127
5255	-1868.4684	29.8047	52.127
5256	-1868.4684	29.89	52.127
5257	-1865.6787	-29.89	52.1689
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5259	-1865.6787	-29.5361	52.1689
5260	-1865.6787	-25.8194	52.1689
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5271	-1865.6787	29.5361	52.1689
5272	-1865.6787	29.8047	52.1689
5273	-1865.6787	29.89	52.1689
5274	-1862.8891	-29.89	52.2107

5275	-1862.8891	-29.8047	52.2107
5276	-1862.8891	-29.5361	52.2107
5277	-1862.8891	-25.8194	52.2107
5278	-1862.8891	-20.9455	52.2107
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5286	-1862.8891	20.9455	52.2107
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5289	-1862.8891	29.8047	52.2107
5290	-1862.8891	29.89	52.2107
5291	-1860.0994	-29.89	52.2525
5292	-1860.0994	-29.8047	52.2525
5293	-1860.0994	-29.5361	52.2525
5294	-1860.0994	-25.8194	52.2525
5295	-1860.0994	-20.9455	52.2525
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5298	-1860.0994	-5.0655	52.2525
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5302	-1860.0994	15.5284	52.2525
5303	-1860.0994	20.9455	52.2525
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5306	-1860.0994	29.8047	52.2525
5307	-1860.0994	29.89	52.2525
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5311	-1857.3097	-25.8194	52.2944
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5315	-1857.3097	-5.0655	52.2944
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5319	-1857.3097	15.5284	52.2944
5320	-1857.3097	20.9455	52.2944
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5322	-1857.3097	29.5361	52.2944
5323	-1857.3097	29.8047	52.2944
5324	-1857.3097	29.89	52.2944
5325	-1854.54	-29.89	52.3359
5326	-1854.54	-29.8047	52.3359
5327	-1854.54	-29.5361	52.3359
5328	-1854.54	-25.8194	52.3359
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5337	-1854.54	20.9455	52.3359
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5356	-1852.1084	29.5361	52.3723
5357	-1852.1084	29.8047	52.3723
5358	-1852.1084	29.89	52.3723
5359	-1849.6787	-29.89	52.4086
5360	-1849.6787	-29.8047	52.4086
5361	-1849.6787	-29.5361	52.4086
5362	-1849.6787	-25.8194	52.4086
5363	-1849.6787	-20.9455	52.4086
5364	-1849.6787	-15.5284	52.4086

5365	-1849.6787	-10.2695	52.4086
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5370	-1849.6787	15.5284	52.4086
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5372	-1849.6787	25.8194	52.4086
5373	-1849.6787	29.5361	52.4086
5374	-1849.6787	29.8047	52.4086
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5377	-1847.2489	-29.8047	52.4449
5378	-1847.2489	-29.5361	52.4449
5379	-1847.2489	-25.8194	52.4449
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5387	-1847.2489	15.5284	52.4449
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5389	-1847.2489	25.8194	52.4449
5390	-1847.2489	29.5361	52.4449
5391	-1847.2489	29.8047	52.4449
5392	-1847.2489	29.89	52.4449
5393	-1844.8192	-29.89	52.4812
5394	-1844.8192	-29.8047	52.4812

5395	-1844.8192	-29.5361	52.4812
5396	-1844.8192	-25.8222	52.4812
5397	-1844.8192	-20.9455	52.4812
5398	-1844.8192	-15.5283	52.4812
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5407	-1844.8192	29.5361	52.4812
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5409	-1844.8192	29.89	52.4812
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5418	-1842.38	0	52.5177
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5426	-1842.38	29.89	52.5177
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5439	-1840.0397	20.9455	52.553
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5442	-1840.0397	29.8047	52.553
5443	-1840.0397	29.89	52.553
5444	-1837.69	-29.89	52.5884
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5446	-1837.69	-29.535	52.5884
5447	-1837.69	-25.8796	52.5884
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5456	-1837.69	21.0575	52.5884
5457	-1837.69	25.8796	52.5884
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5468	-1835.3397	-5.3659	52.6238
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5475	-1835.3397	29.535	52.6238
5476	-1835.3397	29.8046	52.6238
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5479	-1833	-29.8046	52.6591
5480	-1833	-29.4157	52.6591
5481	-1833	-25.8937	52.6591
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5483	-1833	-15.5709	52.6591
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5485	-1833	-10.2637	52.6591
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5493	-1833	25.9105	52.5732
5494	-1833	29.4118	52.6591
5495	-1833	29.8046	52.6591
5496	-1833	29.89	52.6591
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5511	-1831.0498	29.4118	52.6884
5512	-1831.0498	29.8046	52.6884
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5514	-1829.1	-29.89	52.7176

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5529	-1829.1	29.8046	52.7176
5530	-1829.1	29.89	52.7176
5531	-1827.1503	-29.89	52.7468
5532	-1827.1503	-29.8046	52.7468
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5544	-1827.1503	25.8937	52.7468

5545	-1827.1503	29.4118	52.7468
5546	-1827.1503	29.8046	52.7468
5547	-1827.1503	29.89	52.7468
5548	-1825.6254	-29.89	52.7697
5549	-1825.6254	-29.8046	52.7697
5550	-1825.6254	-29.4157	52.7697
5551	-1825.6254	-25.8937	52.7697
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5566	-1824.1	-29.8329	52.7926
5567	-1824.1	-29.3196	52.7926
5568	-1824.1	-25.9605	52.7926
5569	-1824.1	-20.7697	52.7926
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5573	-1824.1	0	52.7926
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5575	-1824.1	10.4091	52.7926
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5589	-1821.4247	0	48.8325
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5602	-1818.7494	-25.9605	48.8725
5603	-1818.7494	-20.7697	48.8725
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5611	-1818.7494	29.8329	48.8725
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5615	-1818.7437	-5.0971	48.8725
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5619	-1816.0747	-25.9605	48.9124
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5621	-1816.0747	-15.5	48.9124
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5623	-1816.0747	0	48.9124
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5627	-1816.0747	29.3196	48.9124
5628	-1816.0747	29.8329	48.9124
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5631	-1816.0731	20.7697	48.9124
5632	-1816.069	-5.0971	48.9124
5633	-1813.4	-29.89	48.9523
5634	-1813.4	-29.8329	48.9523

5635	-1813.3997	-29.3196	48.9523
5636	-1813.4	-25.9605	48.9523
5637	-1813.4	-20.7697	48.9523
5638	-1813.4	-15.5	48.9523
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5640	-1813.4	0	48.9523
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5643	-1813.4	25.9605	48.9523
5644	-1813.4	29.3196	48.9523
5645	-1813.4	29.8329	48.9523
5646	-1813.4	29.89	48.9523
5647	-1813.3982	10.4091	48.9523
5648	-1813.3984	20.7697	48.9523
5649	-1813.3943	-5.0971	48.9523
*	*Pile e fondazioni		
5650	-1888	-15.5	-8
5651	-1888	-15.5	-1
5652	-1888	-15.5	45.684
5653	-1888	15.5	-8
5654	-1888	15.5	-1
5655	-1888	15.5	45.684
*	*Molla		
5656	-1888	0	-4.5
5657	-1888	0	-4.5
*	*		
5658	-1833	-15.5	-8
5659	-1833	-15.5	-1
5660	-1833	-15.5	24.284
5661	-1833	-15.5	46.509

	5662	-1833 15.5	-8	
	5663	-1833 15.5	-1	
	5664	-1833 15.5	24.284	
	5665	-1833 15.5	46.509	
	5668	-1888 0	45.684	
*	*Molla			
	5666	-1833 0	-4.5	
	5667	-1833 0	-4.5	
*	*			
	5669	-1833 0	46.509	
*	*****			
*	*STRUTTURA TERMINALE CALABRIA			
	5670	1813.4	-29.8357	63.4005
	5671	1816.1088	-29.8357	63.3758
	5672	1818.7837	-29.8357	63.3511
	5673	1821.4592	-29.8357	63.3263
	5674	1824.1	-29.8357	63.3016
	5675	1824.1	-29.8074	64.8924
	5676	1825.6508	-29.8074	64.8782
	5677	1825.6722	-29.8074	61.2047
	5678	1827.1759	-29.8074	64.8641
	5679	1829.1257	-29.8074	64.8461
	5680	1831.0756	-29.8074	64.8282
	5681	1833	-29.8074	64.8101
	5682	1835.3658	-29.8074	64.7885
	5683	1837.7163	-29.8074	64.7668
	5684	1839.38	-29.8074	64.7512
	5685	1840.0661	-29.8075	64.7521
	5686	1842.38	-29.8075	64.7305
	5687	1844.8459	-29.8075	64.7079

5688	1845.38	-29.8075	64.7028
5689	1847.276	-29.8075	64.6828
5690	1848.2853	-29.8075	64.6735
5691	1851.0871	-29.8075	64.6476
5692	1854.54	-29.8075	64.6218
5693	1856.6669	-29.8075	64.5961
5694	1859.4567	-29.8075	64.5702
5695	1862.2466	-29.8075	64.5445
5696	1865	-29.8075	64.5188
5697	1867.8664	-29.8075	64.4925
5698	1870.6763	-29.8075	64.4666
5699	1873.4862	-29.8075	64.4406
5700	1876.296	-29.8075	64.4146
5701	1879.07	-29.8075	64.3886
5702	1881.88	-29.8282	62.7677
5703	1881.88	-29.8075	64.3628
5704	1884.6	-29.8282	62.7425
5705	1813.4	-29.3224	57.4586
5706	1816.143	-29.3224	57.4339
5707	1818.8179	-29.3224	57.4092
5708	1821.4934	-29.3224	57.3844
5709	1824.1	-29.4185	58.927
5710	1824.1	-29.3224	57.3597
5711	1825.6855	-29.4185	58.9128
5712	1827.2105	-29.4185	58.8987
5713	1829.1603	-29.4185	58.8807
5714	1831.1103	-29.4185	58.8628
5715	1833	-29.5378	58.9172
5716	1833	-29.4185	58.8447
5717	1835.4	-29.5378	58.8956

5718	1837.7505	-29.5378	58.8739
5719	1839.38	-29.5378	58.8583
5720	1840.1004	-29.5389	58.8563
5721	1842.38	-29.5389	58.8347
5722	1844.8802	-29.5389	58.8121
5723	1845.38	-29.5389	58.807
5724	1847.31	-29.5389	58.7897
5725	1848.3192	-29.5389	58.7804
5726	1851.121	-29.5389	58.7545
5727	1854.54	-29.5389	58.7287
5728	1856.7008	-29.5389	58.7029
5729	1859.4906	-29.5389	58.6771
5730	1862.2805	-29.5389	58.6514
5731	1865	-29.5389	58.6257
5732	1867.9003	-29.5389	58.5994
5733	1870.7102	-29.5389	58.5735
5734	1873.5201	-29.5389	58.5475
5735	1876.3299	-29.5389	58.5215
5736	1879.07	-29.5389	58.4955
5737	1881.88	-29.5389	58.4697
5738	1881.88	-29.2897	56.6952
5739	1884.6	-29.2897	56.67
5740	1813.4	-25.9633	57.4808
5741	1816.1429	-25.9633	57.4561
5742	1818.8178	-25.9633	57.4314
5743	1821.4933	-25.9633	57.4066
5744	1824.1	-25.9633	57.3819
5745	1824.1	-25.8965	59.9667
5746	1825.6795	-25.8965	59.9526
5747	1827.2045	-25.8965	59.9385

5748	1829.1543	-25.8965	59.9205
5749	1831.1043	-25.8965	59.9025
5750	1833	-25.8965	59.8845
5751	1833	-25.8824	60.1774
5752	1835.3927	-25.8824	60.1557
5753	1837.7432	-25.8824	60.1341
5754	1839.38	-25.8824	60.1185
5755	1839.38	-25.825	60.4714
5756	1840.091	-25.825	60.4653
5757	1842.38	-25.825	60.4437
5758	1844.8708	-25.825	60.4211
5759	1845.38	-25.825	60.4159
5760	1845.38	-25.8222	60.4034
5761	1847.3008	-25.8222	60.3862
5762	1848.31	-25.8222	60.3769
5763	1851.1118	-25.8222	60.351
5764	1854.54	-25.8222	60.3252
5765	1856.6916	-25.8222	60.2994
5766	1859.4814	-25.8222	60.2736
5767	1862.2713	-25.8222	60.2478
5768	1865	-25.8222	60.2221
5769	1867.8911	-25.8222	60.1959
5770	1870.701	-25.8222	60.17
5771	1873.5109	-25.8222	60.1439
5772	1876.3207	-25.8222	60.118
5773	1879.07	-25.8222	60.092
5774	1881.88	-25.8222	60.0661
5775	1881.88	-25.5263	56.9573
5776	1884.6	-25.5263	56.9321
5777	1813.4	-20.7725	57.3722

5778	1816.1435	-20.7725	57.3475
5779	1818.8184	-20.7725	57.3228
5780	1821.4939	-20.7725	57.298
5781	1824.1	-21.0762	60.2301
5782	1824.1	-20.7725	57.2733
5783	1825.678	-21.0762	60.216
5784	1827.203	-21.0762	60.2019
5785	1829.1528	-21.0762	60.1839
5786	1831.1028	-21.0762	60.1659
5787	1833	-21.0762	60.1479
5788	1833	-21.0603	60.4529
5789	1835.3911	-21.0603	60.4312
5790	1837.7416	-21.0603	60.4096
5791	1839.38	-21.0603	60.394
5792	1839.38	-20.9483	60.8936
5793	1840.0886	-20.9483	60.8875
5794	1842.38	-20.9483	60.8659
5795	1844.8684	-20.9483	60.8433
5796	1845.38	-20.9483	60.8381
5797	1847.2983	-20.9483	60.8209
5798	1848.3075	-20.9483	60.8116
5799	1851.1093	-20.9483	60.7857
5800	1854.54	-20.9483	60.7599
5801	1856.6891	-20.9483	60.7341
5802	1859.4789	-20.9483	60.7083
5803	1862.2688	-20.9483	60.6825
5804	1865	-20.9483	60.6568
5805	1867.8886	-20.9483	60.6306
5806	1870.6985	-20.9483	60.6047
5807	1873.5084	-20.9483	60.5786

5808	1876.3182	-20.9483	60.5527
5809	1879.07	-20.9483	60.5267
5810	1881.88	-20.9483	60.5008
5811	1881.88	-20.8306	56.755
5812	1884.6	-20.8306	56.7298
5813	1813.4	-15.5	57.4907
5814	1816.1429	-15.5	57.466
5815	1817.75	-15.5	57.45365
5816	1818.8177	-15.5	57.4413
5817	1821.4932	-15.5	57.4165
5818	1824.1	-15.5737	59.9454
5819	1824.1	-15.5	57.3918
5820	1825.6796	-15.5737	59.9313
5821	1827.2046	-15.5737	59.9172
5822	1829.1545	-15.5737	59.8992
5823	1831.1044	-15.5737	59.8812
5824	1833	-15.5737	59.8632
5825	1833	-15.5679	60.0728
5826	1835.3934	-15.5679	60.0511
5827	1837.7439	-15.5679	60.0295
5828	1839.38	-15.5679	60.0139
5829	1839.38	-15.5311	60.4218
5830	1840.0913	-15.5311	60.4157
5831	1842.38	-15.5311	60.3941
5832	1844.8711	-15.5311	60.3715
5833	1845.38	-15.5311	60.3663
5834	1847.301	-15.5312	60.3494
5835	1848.3102	-15.5312	60.3401
5836	1851.112	-15.5312	60.3142
5837	1854.54	-15.5312	60.2884

5838	1856.6918	-15.5312	60.2626
5839	1859.4816	-15.5312	60.2368
5840	1862.2715	-15.5312	60.211
5841	1865	-15.5312	60.1854
5842	1867.8913	-15.5312	60.1591
5843	1870.7012	-15.5312	60.1332
5844	1873.5111	-15.5312	60.1071
5845	1876.3209	-15.5312	60.0812
5846	1879.07	-15.5312	60.0552
5847	1881.88	-16.0761	56.8635
5848	1881.88	-15.5312	60.0293
5849	1884.6	-16.0761	56.8383
5850	1813.4	-10.4119	57.3704
5851	1816.1435	-10.4119	57.3457
5852	1818.8184	-10.4119	57.321
5853	1821.4939	-10.4119	57.2962
5854	1824.1	-10.4119	57.2715
5855	1824.1	-10.2665	60.1189
5856	1825.6786	-10.2665	60.1048
5857	1827.2036	-10.2665	60.0907
5858	1829.1535	-10.2665	60.0727
5859	1831.1034	-10.2665	60.0547
5860	1833	-10.2694	60.3163
5861	1833	-10.2665	60.0367
5862	1835.3919	-10.2694	60.2946
5863	1837.7424	-10.2694	60.273
5864	1839.38	-10.2722	60.7454
5865	1839.38	-10.2694	60.2574
5866	1840.0894	-10.2722	60.7393
5867	1842.38	-10.2722	60.7177

5868	1844.8692	-10.2722	60.6951
5869	1845.38	-10.2722	60.6899
5870	1847.2991	-10.2723	60.6728
5871	1848.3084	-10.2723	60.6635
5872	1851.1102	-10.2723	60.6376
5873	1854.54	-10.2723	60.6118
5874	1856.69	-10.2723	60.586
5875	1859.4798	-10.2723	60.5602
5876	1862.2697	-10.2723	60.5344
5877	1865	-10.2723	60.5087
5878	1867.8895	-10.2723	60.4825
5879	1870.6993	-10.2723	60.4566
5880	1873.5092	-10.2723	60.4305
5881	1876.319	-10.2723	60.4046
5882	1879.07	-10.2723	60.3786
5883	1881.88	-10.2723	60.3527
5884	1881.88	-10.2589	56.6931
5885	1884.6	-10.2589	56.6679
5886	1813.4	-5.0999	57.4856
5887	1816.1372	-5.0999	57.461
5888	1818.8121	-5.0999	57.4362
5889	1821.4876	-5.0999	57.4115
5890	1824.1	-5.4654	59.6077
5891	1824.1	-5.0999	57.3867
5892	1825.6816	-5.4654	59.5936
5893	1827.2066	-5.4654	59.5795
5894	1829.1564	-5.4654	59.5615
5895	1831.1063	-5.4654	59.5436
5896	1833	-5.4654	59.5255
5897	1833	-5.3687	59.5227

5898	1835.3966	-5.3687	59.5011
5899	1837.747	-5.3687	59.4794
5900	1839.38	-5.4116	59.9056
5901	1839.38	-5.3687	59.4638
5902	1840.0943	-5.4116	59.8995
5903	1842.38	-5.4116	59.8779
5904	1844.8742	-5.4116	59.8553
5905	1845.38	-5.4116	59.8501
5906	1845.38	-5.3687	59.4083
5907	1847.2991	-5.3687	59.3911
5908	1848.3083	-5.3687	59.3818
5909	1851.1101	-5.3687	59.3559
5910	1854.54	-5.3687	59.3301
5911	1854.54	-5.0655	60.6202
5912	1856.6899	-5.0683	60.5944
5913	1859.4797	-5.0683	60.5686
5914	1862.2696	-5.0683	60.5428
5915	1865	-5.0683	60.5171
5916	1867.8894	-5.0683	60.4909
5917	1870.6993	-5.0683	60.465
5918	1873.5092	-5.0683	60.4389
5919	1876.319	-5.0683	60.4128
5920	1879.07	-5.0683	60.3867
5921	1881.88	-5.0683	60.3611
5922	1881.88	-4.8739	56.8573
5923	1884.6	-4.8739	56.8321
5924	1813.4	0	57.8664
5925	1816.1407	0	57.8417
5926	1817.75	0	57.82935
5927	1818.8156	0	57.817

5928	1821.4911	0	57.7922
5929	1824.1	0	57.3737
5930	1824.1	0	57.7675
5931	1825.6945	0	57.3596
5932	1827.2195	0	57.3454
5933	1829.1694	0	57.3275
5934	1831.1193	0	57.3095
5935	1833	0	57.2914
5936	1835.4095	0	57.2698
5937	1837.76	0	57.2481
5938	1839.38	0	57.5848
5939	1839.38	0	57.2325
5940	1840.1078	0	57.5787
5941	1842.38	0	57.5571
5942	1844.8876	0	57.5346
5943	1845.38	0	57.177
5944	1845.38	0	57.5294
5945	1847.2986	0	57.1598
5946	1848.3079	0	57.1505
5947	1851.1097	0	57.1246
5948	1854.54	0	60.693
5949	1854.54	0	57.0988
5950	1856.6895	0	60.6672
5951	1859.4793	0	60.6414
5952	1862.2692	0	60.6156
5953	1865	0	60.5899
5954	1867.889	0	60.5637
5955	1870.6989	0	60.5378
5956	1873.5088	0	60.5117
5957	1876.3186	0	60.4858

5958	1879.07	0	60.4598
5959	1881.88	0	60.4339
5960	1881.88	0	56.8994
5961	1884.6	0	56.8742
5962	1813.4	5.0943	57.4856
5963	1816.1429	5.0943	57.4609
5964	1818.8178	5.0943	57.4362
5965	1821.4933	5.0943	57.4114
5966	1824.1	5.0943	57.3867
5967	1824.1	5.4598	59.6077
5968	1825.6816	5.4598	59.5936
5969	1827.2066	5.4598	59.5795
5970	1829.1564	5.4598	59.5615
5971	1831.1063	5.4598	59.5436
5972	1833	5.3631	59.5227
5973	1833	5.4598	59.5255
5974	1835.3966	5.3631	59.5011
5975	1837.747	5.3631	59.4794
5976	1839.38	5.3631	59.4638
5977	1839.38	5.406	59.9056
5978	1840.0943	5.406	59.8995
5979	1842.38	5.406	59.8779
5980	1844.8742	5.406	59.8553
5981	1845.38	5.3631	59.4083
5982	1845.38	5.406	59.8501
5983	1847.2991	5.3631	59.3911
5984	1848.3083	5.3631	59.3818
5985	1851.1101	5.3631	59.3559
5986	1854.54	5.0655	60.6202
5987	1854.54	5.3631	59.3301

5988	1856.6899	5.0627	60.5944
5989	1859.4797	5.0627	60.5686
5990	1862.2696	5.0627	60.5428
5991	1865	5.0627	60.5171
5992	1867.8894	5.0627	60.4909
5993	1870.6993	5.0627	60.465
5994	1873.5092	5.0627	60.4389
5995	1876.319	5.0627	60.4128
5996	1879.07	5.0627	60.3867
5997	1881.88	4.8683	56.8573
5998	1881.88	5.0627	60.3611
5999	1884.6	4.8683	56.8321
6000	1813.4	10.4063	57.3704
6001	1816.1417	10.4063	57.3457
6002	1818.8166	10.4063	57.321
6003	1821.4921	10.4063	57.2963
6004	1824.1	10.2609	60.1189
6005	1824.1	10.4063	57.2715
6006	1825.6786	10.2609	60.1048
6007	1827.2036	10.2609	60.0907
6008	1829.1535	10.2609	60.0727
6009	1831.1034	10.2609	60.0547
6010	1833	10.2609	60.0367
6011	1833	10.2638	60.3163
6012	1835.3919	10.2638	60.2946
6013	1837.7424	10.2638	60.273
6014	1839.38	10.2638	60.2574
6015	1839.38	10.2666	60.7454
6016	1840.0894	10.2666	60.7393
6017	1842.38	10.2666	60.7177

6018	1844.8692	10.2666	60.6951
6019	1845.38	10.2666	60.6899
6020	1847.2991	10.2667	60.6728
6021	1848.3084	10.2667	60.6635
6022	1851.1102	10.2667	60.6376
6023	1854.54	10.2667	60.6118
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6025	1859.4798	10.2667	60.5602
6026	1862.2697	10.2667	60.5344
6027	1865	10.2667	60.5087
6028	1867.8895	10.2667	60.4825
6029	1870.6993	10.2667	60.4566
6030	1873.5092	10.2667	60.4305
6031	1876.319	10.2667	60.4046
6032	1879.07	10.2667	60.3786
6033	1881.88	10.2533	56.6931
6034	1881.88	10.2667	60.3527
6035	1884.6	10.2533	56.6679
6036	1813.4	15.5	57.4907
6037	1816.1429	15.5	57.466
6038	1817.75	15.5	57.45365
6039	1818.8177	15.5	57.4413
6040	1821.4932	15.5	57.4165
6041	1824.1	15.5	57.3918
6042	1824.1	15.5681	59.9454
6043	1825.6796	15.5681	59.9313
6044	1827.2046	15.5681	59.9172
6045	1829.1545	15.5681	59.8992
6046	1831.1044	15.5681	59.8812
6047	1833	15.5623	60.0728

6048	1833	15.5681	59.8632
6049	1835.3934	15.5623	60.0511
6050	1837.7439	15.5623	60.0295
6051	1839.38	15.5255	60.4218
6052	1839.38	15.5623	60.0139
6053	1840.0913	15.5255	60.4157
6054	1842.38	15.5255	60.3941
6055	1844.8711	15.5255	60.3715
6056	1845.38	15.5255	60.3663
6057	1847.301	15.5256	60.3494
6058	1848.3102	15.5256	60.3401
6059	1851.112	15.5256	60.3142
6060	1854.54	15.5256	60.2884
6061	1856.6918	15.5256	60.2626
6062	1859.4816	15.5256	60.2368
6063	1862.2715	15.5256	60.211
6064	1865	15.5256	60.1854
6065	1867.8913	15.5256	60.1591
6066	1870.7012	15.5256	60.1332
6067	1873.5111	15.5256	60.1071
6068	1876.3209	15.5256	60.0812
6069	1879.07	15.5256	60.0552
6070	1881.88	15.5256	60.0293
6071	1881.88	16.0705	56.8635
6072	1884.6	16.0705	56.8383
6073	1813.4	20.7669	57.3722
6074	1816.1419	20.7669	57.3475
6075	1818.8168	20.7669	57.3228
6076	1821.4923	20.7669	57.2981
6077	1824.1	20.7669	57.2733

6078	1824.1	21.0706	60.2301
6079	1825.678	21.0706	60.216
6080	1827.203	21.0706	60.2019
6081	1829.1528	21.0706	60.1839
6082	1831.1028	21.0706	60.1659
6083	1833	21.0547	60.4529
6084	1833	21.0706	60.1479
6085	1835.3911	21.0547	60.4312
6086	1837.7416	21.0547	60.4096
6087	1839.38	20.9427	60.8936
6088	1839.38	21.0547	60.394
6089	1840.0886	20.9427	60.8875
6090	1842.38	20.9427	60.8659
6091	1844.8684	20.9427	60.8433
6092	1845.38	20.9427	60.8381
6093	1847.2983	20.9427	60.8209
6094	1848.3075	20.9427	60.8116
6095	1851.1093	20.9427	60.7857
6096	1854.54	20.9427	60.7599
6097	1856.6891	20.9427	60.7341
6098	1859.4789	20.9427	60.7083
6099	1862.2688	20.9427	60.6825
6100	1865	20.9427	60.6568
6101	1867.8886	20.9427	60.6306
6102	1870.6985	20.9427	60.6047
6103	1873.5084	20.9427	60.5786
6104	1876.3182	20.9427	60.5527
6105	1879.07	20.9427	60.5267
6106	1881.88	20.825	56.755
6107	1881.88	20.9427	60.5008

6108	1884.6	20.825	56.7298
6109	1813.4	25.9577	57.4808
6110	1816.1429	25.9577	57.4561
6111	1818.8178	25.9577	57.4314
6112	1821.4933	25.9577	57.4066
6113	1824.1	25.8909	59.9667
6114	1824.1	25.9577	57.3819
6115	1825.6795	25.8909	59.9526
6116	1827.2045	25.8909	59.9385
6117	1829.1543	25.8909	59.9205
6118	1831.1043	25.8909	59.9025
6119	1833	25.8768	60.1774
6120	1833	25.8909	59.8845
6121	1835.3927	25.8768	60.1557
6122	1837.7432	25.8768	60.1341
6123	1839.38	25.8194	60.4714
6124	1839.38	25.8768	60.1185
6125	1840.091	25.8194	60.4653
6126	1842.38	25.8194	60.4437
6127	1844.8708	25.8194	60.4211
6128	1845.38	25.8194	60.4159
6129	1845.4317	25.8166	60.4034
6130	1847.3008	25.8166	60.3862
6131	1848.31	25.8166	60.3769
6132	1851.1118	25.8166	60.351
6133	1854.54	25.8166	60.3252
6134	1856.6916	25.8166	60.2994
6135	1859.4814	25.8166	60.2736
6136	1862.2713	25.8166	60.2478
6137	1865	25.8166	60.2222

6138	1867.8911	25.8166	60.1959
6139	1870.701	25.8166	60.17
6140	1873.5109	25.8166	60.1439
6141	1876.3207	25.8166	60.118
6142	1879.07	25.8166	60.092
6143	1881.88	25.5207	56.9573
6144	1881.88	25.8166	60.0661
6145	1884.6	25.5207	56.9321
6146	1813.4	29.3168	57.4586
6147	1816.143	29.3168	57.4339
6148	1818.8179	29.3168	57.4092
6149	1821.4934	29.3168	57.3844
6150	1824.1	29.3168	57.3597
6151	1824.1	29.4129	58.927
6152	1825.6855	29.409	58.9128
6153	1827.2105	29.409	58.8987
6154	1829.1603	29.409	58.8807
6155	1831.1103	29.409	58.8628
6156	1833	29.4129	58.8447
6157	1833	29.5322	58.9172
6158	1835.4	29.5322	58.8956
6159	1837.7505	29.5322	58.8739
6160	1839.38	29.5322	58.8583
6161	1840.1004	29.5333	58.8563
6162	1842.38	29.5333	58.8347
6163	1844.8802	29.5333	58.8121
6164	1845.38	29.5333	58.807
6165	1847.31	29.5333	58.7897
6166	1848.3192	29.5333	58.7804
6167	1851.121	29.5333	58.7545

6168	1854.54	29.5333	58.7287
6169	1856.7008	29.5333	58.7029
6170	1859.4906	29.5333	58.6771
6171	1862.2805	29.5333	58.6514
6172	1865	29.5333	58.6257
6173	1867.9003	29.5333	58.5994
6174	1870.7102	29.5333	58.5735
6175	1873.5201	29.5333	58.5475
6176	1876.3299	29.5333	58.5215
6177	1879.07	29.5333	58.4955
6178	1881.88	29.2841	56.6952
6179	1881.88	29.5333	58.4697
6180	1884.6	29.2841	56.67
6181	1813.4	29.8301	63.4005
6182	1816.1088	29.8301	63.3758
6183	1818.7837	29.8301	63.3511
6184	1821.4592	29.8301	63.3263
6185	1824.1	29.8018	64.8924
6186	1824.1	29.8301	63.3016
6187	1825.6508	29.8018	64.8782
6188	1827.1759	29.8018	64.8641
6189	1829.1257	29.8018	64.8461
6190	1831.0756	29.8018	64.8282
6191	1833	29.8018	64.8101
6192	1835.3658	29.8018	64.7885
6193	1837.7163	29.8018	64.7668
6194	1839.38	29.8018	64.7512
6195	1840.0661	29.8019	64.7521
6196	1842.38	29.8019	64.7305
6197	1844.8459	29.8019	64.7079

6198	1845.38	29.8019	64.7028
6199	1847.276	29.8019	64.6828
6200	1848.2853	29.8019	64.6735
6201	1851.0871	29.8019	64.6476
6202	1854.54	29.8019	64.6218
6203	1856.6669	29.8019	64.5961
6204	1859.4567	29.8019	64.5702
6205	1862.2466	29.8019	64.5445
6206	1865	29.8019	64.5188
6207	1867.8664	29.8019	64.4925
6208	1870.6763	29.8019	64.4666
6209	1873.4862	29.8019	64.4406
6210	1876.296	29.8019	64.4146
6211	1879.07	29.8019	64.3886
6212	1881.88	29.8019	64.3628
6213	1881.88	29.8226	62.7677
6214	1884.6	29.8226	62.7425

* ***Traversi

6215	1813.4	-29.8928	57.3169
6216	1813.4	-29.8357	57.3169
6217	1813.4	-29.3224	57.3169
6218	1813.4	-25.9633	57.3169
6219	1813.4	-20.7725	57.3169
6220	1813.4	-15.5	57.3169
6221	1813.4	-10.4119	57.3169
6222	1813.4	-5.0999	57.3169
6223	1813.4	0	57.3169
6224	1813.4	5.0943	57.3169
6225	1813.4	10.4063	57.3169
6226	1813.4	15.5	57.3169

6227	1813.4	20.7669	57.3169
6228	1813.4	25.9577	57.3169
6229	1813.4	29.3168	57.3169
6230	1813.4	29.8301	57.3169
6231	1813.4	29.8872	57.3169
6232	1816.1208	-5.0999	57.2924
6233	1816.1208	10.4063	57.2924
6234	1816.1208	20.7669	57.2924
6235	1816.1208	-29.8928	57.2924
6236	1816.1208	-29.8357	57.2924
6237	1816.1208	-29.3224	57.2924
6238	1816.1208	-25.9633	57.2924
6239	1816.1208	-20.7725	57.2924
6240	1816.1208	-15.5	57.2924
6241	1816.1208	-10.4119	57.2924
6242	1816.1208	0	57.2924
6243	1816.1208	5.0943	57.2924
6244	1816.1208	15.5	57.2924
6245	1816.1208	25.9577	57.2924
6246	1816.1208	29.3168	57.2924
6247	1816.1208	29.8301	57.2924
6248	1816.1208	29.8872	57.2924
6249	1818.79	-29.8928	57.2679
6250	1818.79	-29.8357	57.2679
6251	1818.79	-29.3224	57.2679
6252	1818.79	-25.9633	57.2679
6253	1818.79	-20.7725	57.2679
6254	1818.79	-15.5	57.2679
6255	1818.79	-10.4119	57.2679
6256	1818.79	-5.0999	57.2679

6257	1818.79	0	57.2679
6258	1818.79	5.0943	57.2679
6259	1818.79	10.4063	57.2679
6260	1818.79	15.5	57.2679
6261	1818.79	20.7669	57.2679
6262	1818.79	25.9577	57.2679
6263	1818.79	29.3168	57.2679
6264	1818.79	29.8301	57.2679
6265	1818.79	29.8872	57.2679
6266	1821.4712	-29.8928	57.2433
6267	1821.4712	-29.8357	57.2433
6268	1821.4712	-29.3224	57.2433
6269	1821.4712	-25.9633	57.2433
6270	1821.4712	-20.7725	57.2433
6271	1821.4712	-15.5	57.2433
6272	1821.4712	-10.4119	57.2433
6273	1821.4712	-5.0999	57.2433
6274	1821.4712	0	57.2433
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6276	1821.4712	10.4063	57.2433
6277	1821.4712	15.5	57.2433
6278	1821.4712	20.7669	57.2433
6279	1821.4712	25.9577	57.2433
6280	1821.4712	29.3168	57.2433
6281	1821.4712	29.8301	57.2433
6282	1821.4712	29.8872	57.2433
6283	1824.1	-29.8928	61.2188
6284	1824.1	-29.8357	61.2188
6285	1824.1	-29.3224	61.2188
6286	1824.1	-25.9633	61.2188

6287	1824.1	-20.7725	61.2188
6288	1824.1	-15.5	61.2188
6289	1824.1	-10.4119	61.2188
6290	1824.1	-5.0999	61.2188
6291	1824.1	0	61.2188
6292	1824.1	5.0943	61.2188
6293	1824.1	10.4063	61.2188
6294	1824.1	15.5	61.2188
6295	1824.1	20.7669	61.2188
6296	1824.1	25.9577	61.2188
6297	1824.1	29.3168	61.2188
6298	1824.1	29.8301	61.2188
6299	1824.1	29.8872	61.2188
6300	1825.6722	-29.8928	61.2047
6301	1825.6722	-29.4185	61.2047
6302	1825.6722	-25.8965	61.2047
6303	1825.6722	-21.0762	61.2047
6304	1825.6722	-15.5737	61.2047
6305	1825.6722	-10.2665	61.2047
6306	1825.6722	-5.4654	61.2047
6307	1825.6722	0	61.2047
6308	1825.6722	5.4598	61.2047
6309	1825.6722	10.2609	61.2047
6310	1825.6722	15.5681	61.2047
6311	1825.6722	21.0706	61.2047
6312	1825.6722	25.8909	61.2047
6313	1825.6722	29.409	61.2047
6314	1825.6722	29.8018	61.2047
6315	1825.6722	29.8872	61.2047
6316	1827.1972	-29.8928	61.1906

6317	1827.1972	-29.8074	61.1906
6318	1827.1972	-29.4185	61.1906
6319	1827.1972	-25.8965	61.1906
6320	1827.1972	-21.0762	61.1906
6321	1827.1972	-15.5737	61.1906
6322	1827.1972	-10.2665	61.1906
6323	1827.1972	-5.4654	61.1906
6324	1827.1972	0	61.1906
6325	1827.1972	5.4598	61.1906
6326	1827.1972	10.2609	61.1906
6327	1827.1972	15.5681	61.1906
6328	1827.1972	21.0706	61.1906
6329	1827.1972	25.8909	61.1906
6330	1827.1972	29.409	61.1906
6331	1827.1972	29.8018	61.1906
6332	1827.1972	29.8872	61.1906
6333	1829.147	-29.8928	61.1726
6334	1829.147	-29.8074	61.1726
6335	1829.147	-29.4185	61.1726
6336	1829.147	-25.8965	61.1726
6337	1829.147	-21.0762	61.1726
6338	1829.147	-15.5737	61.1726
6339	1829.147	-10.2665	61.1726
6340	1829.147	-5.4654	61.1726
6341	1829.147	0	61.1726
6342	1829.147	5.4598	61.1726
6343	1829.147	10.2609	61.1726
6344	1829.147	15.5681	61.1726
6345	1829.147	21.0706	61.1726
6346	1829.147	25.8909	61.1726

6347	1829.147	29.409	61.1726
6348	1829.147	29.8018	61.1726
6349	1829.147	29.8872	61.1726
6350	1831.097	-29.8928	61.1546
6351	1831.097	-29.8074	61.1546
6352	1831.097	-29.4185	61.1546
6353	1831.097	-25.8965	61.1546
6354	1831.097	-21.0762	61.1546
6355	1831.097	-15.5737	61.1546
6356	1831.097	-10.2665	61.1546
6357	1831.097	-5.4654	61.1546
6358	1831.097	0	61.1546
6359	1831.097	5.4598	61.1546
6360	1831.097	10.2609	61.1546
6361	1831.097	15.5681	61.1546
6362	1831.097	21.0706	61.1546
6363	1831.097	25.8909	61.1546
6364	1831.097	29.409	61.1546
6365	1831.097	29.8018	61.1546
6366	1831.097	29.8872	61.1546
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6368	1833	-29.8074	61.1366
6369	1833	-29.4185	61.1366
6370	1833	-25.8965	61.1366
6371	1833	-21.0762	61.1366
6372	1833	-15.5737	61.1366
6373	1833	-10.2665	61.1366
6374	1833	-5.4654	61.1366
6375	1833	0	61.1366
6376	1833	5.4598	61.1366

	6377	1833	10.2609	61.1366
*	6378	1833	15.4972	61.1366
	6379	1833	15.5681	61.1366
	6380	1833	21.0706	61.1366
	6381	1833	25.9077	61.0507
	6382	1833	29.409	61.1366
	6383	1833	29.8018	61.1366
	6384	1833	29.8872	61.1366
	6385	1835.3872	-29.8928	61.1147
	6386	1835.3872	-29.8074	61.1147
	6387	1835.3872	-29.5378	61.1147
	6388	1835.3872	-25.8824	61.1147
	6389	1835.3872	-21.0603	61.1147
	6390	1835.3872	-15.5679	61.1147
	6391	1835.3872	-10.2694	61.1147
	6392	1835.3872	-5.3687	61.1147
	6393	1835.3872	0	61.1147
	6394	1835.3872	5.3631	61.1147
	6395	1835.3872	10.2638	61.1147
	6396	1835.3872	15.5623	61.1147
	6397	1835.3872	21.0547	61.1147
	6398	1835.3872	25.8768	61.1147
	6399	1835.3872	29.5322	61.1147
	6400	1835.3872	29.8018	61.1147
	6401	1835.3872	29.8872	61.1147
	6402	1837.7376	-29.8928	61.0929
	6403	1837.7376	-29.8074	61.0929
	6404	1837.7376	-29.5378	61.0929
	6405	1837.7376	-25.8824	61.0929
	6406	1837.7376	-21.0603	61.0929

6407	1837.7376	-15.5679	61.0929
6408	1837.7376	-10.2694	61.0929
6409	1837.7376	-5.3687	61.0929
6410	1837.7376	0	61.0929
6411	1837.7376	5.3631	61.0929
6412	1837.7376	10.2638	61.0929
6413	1837.7376	15.5623	61.0929
6414	1837.7376	21.0547	61.0929
6415	1837.7376	25.8768	61.0929
6416	1837.7376	29.5322	61.0929
6417	1837.7376	29.8018	61.0929
6418	1837.7376	29.8872	61.0929
6419	1840.0875	-29.8928	61.071
6420	1840.0875	-29.8075	61.071
6421	1840.0875	-29.5389	61.071
6422	1840.0875	-25.825	61.071
6423	1840.0875	-20.9483	61.071
6424	1840.0875	-15.5311	61.071
6425	1840.0875	-10.2722	61.071
6426	1840.0875	-5.4116	61.071
6427	1840.0875	0	61.071
6428	1840.0875	5.406	61.071
6429	1840.0875	10.2666	61.071
6430	1840.0875	15.5255	61.071
6431	1840.0875	20.9427	61.071
6432	1840.0875	25.8194	61.071
6433	1840.0875	29.5333	61.071
6434	1840.0875	29.8019	61.071
6435	1840.0875	29.8872	61.071
6436	1842.38	-29.8928	61.0492

6437	1842.38	-29.8075	61.0492
6438	1842.38	-29.5389	61.0492
6439	1842.38	-25.825	61.0492
6440	1842.38	-20.9483	61.0492
6441	1842.38	-15.5311	61.0492
6442	1842.38	-10.2722	61.0492
6443	1842.38	-5.4116	61.0492
6444	1842.38	0	61.0492
6445	1842.38	5.406	61.0492
6446	1842.38	10.2666	61.0492
6447	1842.38	15.5255	61.0492
6448	1842.38	20.9427	61.0492
6449	1842.38	25.8194	61.0492
6450	1842.38	29.5333	61.0492
6451	1842.38	29.8019	61.0492
6452	1842.38	29.8872	61.0492
6453	1844.8673	-29.8928	61.0267
6454	1844.8673	-29.8075	61.0267
6455	1844.8673	-29.5389	61.0267
6456	1844.8673	-25.825	61.0267
6457	1844.8673	-20.9483	61.0267
6458	1844.8673	-15.5311	61.0267
6459	1844.8673	-10.2722	61.0267
6460	1844.8673	-5.4116	61.0267
6461	1844.8673	0	61.0267
6462	1844.8673	5.406	61.0267
6463	1844.8673	10.2666	61.0267
6464	1844.8673	15.5255	61.0267
6465	1844.8673	20.9427	61.0267
6466	1844.8673	25.8194	61.0267

6467	1844.8673	29.5333	61.0267
6468	1844.8673	29.8019	61.0267
6469	1844.8673	29.8872	61.0267
6470	1847.2972	-29.8928	61.0044
6471	1847.2972	-29.8075	61.0044
6472	1847.2972	-29.5389	61.0044
6473	1847.2972	-25.8222	61.0044
6474	1847.2972	-20.9483	61.0044
6475	1847.2972	-15.5312	61.0044
6476	1847.2972	-10.2723	61.0044
6477	1847.2972	-5.0683	61.0044
6478	1847.2972	0	61.0044
6479	1847.2972	5.0627	61.0044
6480	1847.2972	10.2667	61.0044
6481	1847.2972	15.5256	61.0044
6482	1847.2972	20.9427	61.0044
6483	1847.2972	25.8166	61.0044
6484	1847.2972	29.5333	61.0044
6485	1847.2972	29.8019	61.0044
6486	1847.2972	29.8872	61.0044
6487	1848.3065	-29.8928	60.9955
6488	1848.3065	-29.8075	60.9955
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6493	1848.3065	-10.2723	60.9955
6494	1848.3065	-5.0683	60.9955
6495	1848.3065	0	60.9955
6496	1848.3065	5.0627	60.9955

6497	1848.3065	10.2667	60.9955
6498	1848.3065	15.5256	60.9955
6499	1848.3065	20.9427	60.9955
6500	1848.3065	25.8166	60.9955
6501	1848.3065	29.5333	60.9955
6502	1848.3065	29.8019	60.9955
6503	1848.3065	29.8872	60.9955
6504	1851.1083	-29.8928	60.9696
6505	1851.1083	-29.8075	60.9696
6506	1851.1083	-29.5389	60.9696
6507	1851.1083	-25.8222	60.9696
6508	1851.1083	-20.9483	60.9696
6509	1851.1083	-15.5312	60.9696
6510	1851.1083	-10.2723	60.9696
6511	1851.1083	-5.0683	60.9696
6512	1851.1083	0	60.9696
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6514	1851.1083	10.2667	60.9696
6515	1851.1083	15.5256	60.9696
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6519	1851.1083	29.8019	60.9696
6520	1851.1083	29.8872	60.9696
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6522	1854.54	-29.8075	60.9438
6523	1854.54	-29.5389	60.9438
6524	1854.54	-25.8222	60.9438
6525	1854.54	-20.9483	60.9438
6526	1854.54	-15.5312	60.9438

6527	1854.54	-10.2723	60.9438
6528	1854.54	-5.0683	60.9438
6529	1854.54	0	60.9438
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6531	1854.54	10.2667	60.9438
6532	1854.54	15.5256	60.9438
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6534	1854.54	25.8166	60.9438
6535	1854.54	29.5333	60.9438
6536	1854.54	29.8019	60.9438
6537	1854.54	29.8872	60.9438
6538	1856.6881	-29.8928	60.918
6539	1856.6881	-29.8075	60.918
6540	1856.6881	-29.5389	60.918
6541	1856.6881	-25.8222	60.918
6542	1856.6881	-20.9483	60.918
6543	1856.6881	-15.5312	60.918
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6545	1856.6881	-5.0683	60.918
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6550	1856.6881	20.9427	60.918
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6552	1856.6881	29.5333	60.918
6553	1856.6881	29.8019	60.918
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6555	1859.4779	-29.8928	60.8923
6556	1859.4779	-29.8075	60.8923

6557	1859.4779	-29.5389	60.8923
6558	1859.4779	-25.8222	60.8923
6559	1859.4779	-20.9483	60.8923
6560	1859.4779	-15.5312	60.8923
6561	1859.4779	-10.2723	60.8923
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6563	1859.4779	0	60.8923
6564	1859.4779	5.0627	60.8923
6565	1859.4779	10.2667	60.8923
6566	1859.4779	15.5256	60.8923
6567	1859.4779	20.9427	60.8923
6568	1859.4779	25.8166	60.8923
6569	1859.4779	29.5333	60.8923
6570	1859.4779	29.8019	60.8923
6571	1859.4779	29.8872	60.8923
6572	1862.2677	-29.8928	60.8664
6573	1862.2677	-29.8075	60.8664
6574	1862.2677	-29.5389	60.8664
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6576	1862.2677	-20.9483	60.8664
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6578	1862.2677	-10.2723	60.8664
6579	1862.2677	-5.0683	60.8664
6580	1862.2677	0	60.8664
6581	1862.2677	5.0627	60.8664
6582	1862.2677	10.2667	60.8664
6583	1862.2677	15.5256	60.8664
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6585	1862.2677	25.8166	60.8664
6586	1862.2677	29.5333	60.8664

6587	1862.2677	29.8019	60.8664
6588	1862.2677	29.8872	60.8664
6589	1865	-29.8928	60.8407
6590	1865	-29.8075	60.8407
6591	1865	-29.5389	60.8407
6592	1865	-25.8222	60.8407
6593	1865	-20.9483	60.8407
6594	1865	-15.5312	60.8407
6595	1865	-15.5028	60.8407
6596	1865	-10.2723	60.8407
6597	1865	-5.0683	60.8407
6598	1865	0	60.8407
6599	1865	5.0627	60.8407
6600	1865	10.2667	60.8407
6601	1865	15.4972	60.8407
6602	1865	15.5256	60.8407
6603	1865	20.9427	60.8407
6604	1865	25.8166	60.8407
6605	1865	29.5333	60.8407
6606	1865	29.8019	60.8407
6607	1865	29.8872	60.8407
6608	1867.8875	-29.8928	60.8144
6609	1867.8875	-29.8075	60.8144
6610	1867.8875	-29.5389	60.8144
6611	1867.8875	-25.8222	60.8144
6612	1867.8875	-20.9483	60.8144
6613	1867.8875	-15.5312	60.8144
6614	1867.8875	-10.2723	60.8144
6615	1867.8875	-5.0683	60.8144
6616	1867.8875	0	60.8144

6617	1867.8875	5.0627	60.8144
6618	1867.8875	10.2667	60.8144
6619	1867.8875	15.5256	60.8144
6620	1867.8875	20.9427	60.8144
6621	1867.8875	25.8166	60.8144
6622	1867.8875	29.5333	60.8144
6623	1867.8875	29.8019	60.8144
6624	1867.8875	29.8872	60.8144
6625	1870.6974	-29.8928	60.7883
6626	1870.6974	-29.8075	60.7883
6627	1870.6974	-29.5389	60.7883
6628	1870.6974	-25.8222	60.7883
6629	1870.6974	-20.9483	60.7883
6630	1870.6974	-15.5312	60.7883
6631	1870.6974	-10.2723	60.7883
6632	1870.6974	-5.0683	60.7883
6633	1870.6974	0	60.7883
6634	1870.6974	5.0627	60.7883
6635	1870.6974	10.2667	60.7883
6636	1870.6974	15.5256	60.7883
6637	1870.6974	20.9427	60.7883
6638	1870.6974	25.8166	60.7883
6639	1870.6974	29.5333	60.7883
6640	1870.6974	29.8019	60.7883
6641	1870.6974	29.8872	60.7883
6642	1873.5073	-29.8928	60.7621
6643	1873.5073	-29.8075	60.7621
6644	1873.5073	-29.5389	60.7621
6645	1873.5073	-25.8222	60.7621
6646	1873.5073	-20.9483	60.7621

6647	1873.5073	-15.5312	60.7621
6648	1873.5073	-10.2723	60.7621
6649	1873.5073	-5.0683	60.7621
6650	1873.5073	0	60.7621
6651	1873.5073	5.0627	60.7621
6652	1873.5073	10.2667	60.7621
6653	1873.5073	15.5256	60.7621
6654	1873.5073	20.9427	60.7621
6655	1873.5073	25.8166	60.7621
6656	1873.5073	29.5333	60.7621
6657	1873.5073	29.8019	60.7621
6658	1873.5073	29.8872	60.7621
6659	1876.3171	-29.8928	60.736
6660	1876.3171	-29.8075	60.736
6661	1876.3171	-29.5389	60.736
6662	1876.3171	-25.8222	60.736
6663	1876.3171	-20.9483	60.736
6664	1876.3171	-15.5312	60.736
6665	1876.3171	-10.2723	60.736
6666	1876.3171	-5.0683	60.736
6667	1876.3171	0	60.736
6668	1876.3171	5.0627	60.736
6669	1876.3171	10.2667	60.736
6670	1876.3171	15.5256	60.736
6671	1876.3171	20.9427	60.736
6672	1876.3171	25.8166	60.736
6673	1876.3171	29.5333	60.736
6674	1876.3171	29.8019	60.736
6675	1876.3171	29.8872	60.736
6676	1879.07	-29.8928	60.7099

6677	1879.07	-29.8075	60.7099
6678	1879.07	-29.5389	60.7099
6679	1879.07	-25.8222	60.7099
6680	1879.07	-20.9483	60.7099
6681	1879.07	-15.5312	60.7099
6682	1879.07	-10.2723	60.7099
6683	1879.07	-5.0683	60.7099
6684	1879.07	0	60.7099
6685	1879.07	5.0627	60.7099
6686	1879.07	10.2667	60.7099
6687	1879.07	15.5256	60.7099
6688	1879.07	20.9427	60.7099
6689	1879.07	25.8166	60.7099
6690	1879.07	29.5333	60.7099
6691	1879.07	29.8019	60.7099
6692	1879.07	29.8872	60.7099
6693	1881.88	-29.8928	60.6843
6694	1881.88	-29.8075	60.6843
6695	1881.88	-29.5389	60.6843
6696	1881.88	-25.8222	60.6843
6697	1881.88	-20.9483	60.6843
6698	1881.88	-15.5312	60.6843
6699	1881.88	-10.2723	60.6843
6701	1881.88	-5.0683	60.6843
6702	1881.88	0	60.6843
6703	1881.88	5.0627	60.6843
6705	1881.88	10.2667	60.6843
6706	1881.88	15.5256	60.6843
6707	1881.88	20.9427	60.6843
6708	1881.88	25.8166	60.6843

6709	1881.88	29.5333	60.6843
6710	1881.88	29.8019	60.6843
6711	1881.88	29.8226	60.6843
6712	1881.88	29.8872	60.6843
6713	1884.6	-29.8928	56.6596
6714	1884.6	-29.8282	56.6596
6715	1884.6	-29.2897	56.6596
6716	1884.6	-25.5263	56.6596
6717	1884.6	-20.8306	56.6596
6718	1884.6	-16.0761	56.6596
6719	1884.6	-10.2589	56.6596
6720	1884.6	-4.8739	56.6596
6721	1884.6	0	56.6596
6722	1884.6	4.8683	56.6596
6723	1884.6	10.2533	56.6596
6724	1884.6	16.0705	56.6596
6725	1884.6	20.825	56.6596
6726	1884.6	25.5207	56.6596
6727	1884.6	29.2841	56.6596
6728	1884.6	29.8226	56.6596
6729	1884.6	29.8872	56.6596

* *Portali

6730	1833	-15.5	28.5
6731	1833	-15.5	35.5
6732	1833	-15.5	46.76
6733	1833	-15.5	54.8737

* *Molla

6734	1833	0	32
6735	1833	0	32

* *

6736	1833	0	54.8737
6737	1833	15.5	28.5
6738	1833	15.5	35.5
6739	1833	15.5	46.76
6740	1833	15.5	54.8737
6741	1865	-15.5	54.3936
6742	1865	-15.5	31
6743	1865	-15.5	38
6744	1865	0	54.3936
*	*Molla		
6745	1865	0	34.5
6746	1865	0	34.5
*	*		
6747	1865	15.5	31
6748	1865	15.5	38
6749	1865	15.5	54.3936
*	****		
*	*PANTANO		
6750	-2337.32545	-100.44099	51.01
6751	-2314.2182	-89.60353	51.01
6752	-2290.65063	-79.54857	51.01
6753	-2267.03257	-70.14557	51.01
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6755	-2218.70363	-53.72534	51.01
6756	-2194.18218	-46.67461	51.01
6757	-2169.44066	-40.39768	51.01
6758	-2144.51721	-34.91316	51.01
6759	-2119.42453	-30.22724	51.01
6760	-2094.20046	-26.3269	51.01
6761	-2068.86422	-23.23724	51.01

6762	-2043.66256	-20.9685	51.01
6763	-2017.77241	-19.4339	51.01
6764	-1992.07234	-18.57418	51.01
6765	-1966.35804	-18.1953	51.01
6766	-1946.35821	-18.13322	51.01
6767	-1926.35312	-18.17872	51.01
6768	-1906.35485	-18.27476	51.01
6769	-2345.34792	-84.02475	51.01
6770	-2321.71952	-72.93311	51.01
6771	-2297.74133	-62.60707	51.01
6772	-2276.34801	-54.17639	51.01
6773	-2270.5432	-51.99577	51.01
6774	-2248.88417	-44.25347	51.01
6775	-2224.03389	-36.24777	51.01
6776	-2201.93095	-29.88991	51.01
6777	-2195.9448	-28.27042	51.01
6778	-2173.6516	-22.61808	51.01
6779	-2148.15446	-17.00323	51.01
6780	-2125.55109	-12.7729	51.01
6781	-2119.44489	-11.73109	51.01
6782	-2096.70369	-8.22575	51.01
6783	-2070.79438	-5.06901	51.01
6784	-2047.88442	-3.00433	51.01
6785	-2041.69742	-2.54231	51.01
6786	-2018.72138	-1.18047	51.01
6787	-1992.61318	-0.30264	51.01
6788	-1969.59334	0.03062	51.01
6789	-1963.38815	0.08592	51.01
6790	-1946.42147	0.14309	51.01
6791	-1926.33422	0.09046	51.01

6792	-1906.26	0	51.01
6793	-2353.36713	-67.59905	51.01
6794	-2329.21139	-56.26594	51.01
6795	-2304.70911	-45.70789	51.01
6796	-2279.8857	-35.93729	51.01
6797	-2254.76007	-26.94762	51.01
6798	-2229.3609	-18.76075	51.01
6799	-2203.72307	-11.38581	51.01
6800	-2177.85929	-4.82901	51.01
6801	-2151.80443	0.90051	51.01
6802	-2125.57741	5.80926	51.01
6803	-2099.20691	9.87539	51.01
6804	-2072.72128	13.10867	51.01
6805	-2046.14596	15.49669	51.01
6806	-2019.67035	17.07296	51.01
6807	-1993.15727	17.95944	51.01
6808	-1966.63646	18.34618	51.01
6809	-1946.47527	18.41615	51.01
6810	-1926.32479	18.36289	51.01
6811	-1906.17461	18.27801	51.01
6812	-2269.41387	-63.80305	51.01
6813	-2273.46386	-53.0398	51.01
6814	-2277.50641	-42.27375	51.01
6815	-2195.94896	-40.13393	51.01
6816	-2198.9479	-29.03184	51.01
6817	-2201.95181	-17.93109	51.01
6818	-2120.56701	-23.53832	51.01
6819	-2122.50407	-12.20263	51.01
6820	-2124.43834	-0.86647	51.01
6821	-2044.08251	-14.20381	51.01

6822	-2044.79506	-2.72591	51.01
6823	-2045.64525	8.74262	51.01
6824	-1966.40963	-11.42423	51.01
6825	-1966.49725	0.07544	51.01
6826	-1966.58487	11.57511	51.01
6827	-2273.52315	-53.11986	16.7
6828	-2271.96303	-57.34286	22.7
6829	-2273.52315	-53.11986	22.7
6830	-2275.08328	-48.89686	22.7
6831	-2273.46386	-53.0398	35.51
6832	-2271.96303	-57.34286	36.01
6833	-2275.08328	-48.89686	36.01
6834	-2269.41387	-63.80305	45.51
6835	-2276.34801	-54.17639	45.51
6836	-2273.46386	-53.0398	45.51
6837	-2270.5432	-51.99577	45.51
6838	-2277.50641	-42.27375	45.51
6839	-2198.93891	-29.08253	0.3
6840	-2197.76421	-33.42664	6.3
6841	-2198.93891	-29.08253	6.3
6842	-2200.1136	-24.73841	6.3
6843	-2198.9479	-29.03184	35.51
6844	-2197.76421	-33.42664	36.01
6845	-2200.1136	-24.73841	36.01
6846	-2195.94896	-40.13393	45.51
6847	-2201.93095	-29.88991	45.51
6848	-2198.9479	-29.03184	45.51
6849	-2195.9448	-28.27042	45.51
6850	-2201.95181	-17.93109	45.51
6851	-2122.59336	-12.27765	-2.53

6852	-2121.8592	-16.71862	3.47
6853	-2122.59336	-12.27765	3.47
6854	-2123.32752	-7.83668	3.47
6855	-2122.50407	-12.20263	35.51
6856	-2121.8592	-16.71862	36.01
6857	-2123.32752	-7.83668	36.01
6858	-2120.56701	-23.53832	45.51
6859	-2125.55109	-12.7729	45.51
6860	-2122.50407	-12.20263	45.51
6861	-2119.44489	-11.73109	45.51
6862	-2124.43834	-0.86647	45.51
6863	-2044.81296	-2.77791	-3.39
6864	-2044.48562	-7.26389	2.61
6865	-2044.81296	-2.77791	2.61
6866	-2045.14031	1.70806	2.61
6867	-2044.79506	-2.72591	35.51
6868	-2044.48562	-7.26389	36.01
6869	-2045.14031	1.70806	36.01
6870	-2044.08251	-14.20381	45.51
6871	-2047.88442	-3.00433	45.51
6872	-2044.79506	-2.72591	45.51
6873	-2041.69742	-2.54231	45.51
6874	-2045.64525	8.74262	45.51
6875	-1966.5202	-0.00656	-4.2
6876	-1966.49845	-4.53537	1.8
6877	-1966.5202	-0.00656	1.8
6878	-1966.54194	4.52226	1.8
6879	-1966.49725	0.07544	35.51
6880	-1966.49845	-4.53537	36.01
6881	-1966.54194	4.52226	36.01

6882	-1966.40963	-11.42423	45.51
6883	-1969.59334	0.03062	45.51
6884	-1966.49725	0.07544	45.51
6885	-1963.38815	0.08592	45.51
6886	-1966.58487	11.57511	45.51
6887	-2273.46386	-53.0398	40.51
6888	-2198.9479	-29.03184	40.51
6889	-2122.50407	-12.20263	40.51
6890	-2044.79506	-2.72591	40.51
6891	-1966.49725	0.07544	40.51
*	*		
*	*Appoggi Pantano		
6892	-1906.3548	-20.8278	47.629
6893	-1906.3548	-20.8278	51.01
6894	-1906.3548	-16.0733	47.7375
6895	-1906.3548	-16.0733	51.01
6896	-1906.26	0	47.7748
6897	-1906.1746	16.0733	47.7402
6898	-1906.1746	16.0733	51.01
6899	-1906.1746	20.8278	47.6317
6900	-1906.1746	20.8278	51.01
*	*****		
*	*BUFFER		
6901	-1680	-37.84	57.67
6902	-1680	37.84	57.67
6903	1680	-37.56	65.67
6904	1680	37.56	65.67
6905	-1835.34	-15.5	46.51
6906	-1835.34	15.5	46.51
6907	1835.3934	-15.5	54.8737

6908 1835.3934 15.5 54.8737

* *****

* *Molle Pantano

6909 -2273.52315 -53.11986 16.7

6910 -2198.93891 -29.08253 0.3

6911 -2122.59336 -12.27765 -2.53

6912 -2044.81296 -2.77791 -3.39

6913 -1966.5202 -0.00656 -4.2

* *Molle blocchi d'ancoraggio

6914 -2656.03 0 27.9

6915 -2656.03 0 27.9

6916 2494.75 0 91.648

6917 2494.75 0 91.648

* *

boundaries

* *Punti ausiliari bloccati

1 fixed fixed fixed fixed fixed fixed

2 fixed fixed fixed fixed fixed fixed

3 fixed fixed fixed fixed fixed fixed

* *Cavi

* *Ancoraggio Sicilia

6914 fixed fixed fixed fixed fixed fixed

* *Ancoraggio Calabria

6916 fixed fixed fixed fixed fixed fixed

* *No molle

* 6915 fixed fixed fixed fixed fixed fixed

* 6917 fixed fixed fixed fixed fixed fixed

* 4 fixed fixed fixed fixed fixed fixed

* 174 fixed fixed fixed fixed fixed fixed

* 175 fixed fixed fixed fixed fixed fixed

* 345 fixed fixed fixed fixed fixed fixed
* *Torre Sicilia
3513 fixed fixed fixed fixed fixed fixed
3629 fixed fixed fixed fixed fixed fixed
* 3514 fixed fixed fixed fixed fixed fixed
* 3630 fixed fixed fixed fixed fixed fixed
* *Torre Calabria
3789 fixed fixed fixed fixed fixed fixed
3905 fixed fixed fixed fixed fixed fixed
* 3790 fixed fixed fixed fixed fixed fixed
* 3906 fixed fixed fixed fixed fixed fixed
* *Splay saddle
* 4316 fixed fixed fixed fixed fixed fixed
* 4317 fixed fixed fixed fixed fixed fixed
* 4318 fixed fixed fixed fixed fixed fixed
* 4319 fixed fixed fixed fixed fixed fixed
* *Fine lato Calabria
* 4959 fixed fixed fixed fixed fixed fixed
* 4960 fixed fixed fixed fixed fixed fixed
* 4975 fixed fixed fixed fixed fixed fixed
* *Torre Sicilia BASE ACCIAIO
* 3522 fixed fixed fixed fixed fixed fixed
* 3638 fixed fixed fixed fixed fixed fixed
* *Torre Calabria BASE ACCIAIO
* 3798 fixed fixed fixed fixed fixed fixed
* 3914 fixed fixed fixed fixed fixed fixed
* *Tie down
* 4194 fixed fixed fixed fixed fixed fixed
* 4313 fixed fixed fixed fixed fixed fixed
* 4076 fixed fixed fixed fixed fixed fixed

* 4195 fixed fixed fixed fixed fixed fixed

* *Nodi di cavi rotazione bloccata

6 free free free fixed fixed fixed

step 1 to

35 free free free fixed fixed fixed

37 free free free fixed fixed fixed

step 1 to

145 free free free fixed fixed fixed

147 free free free fixed fixed fixed

step 1 to

172 free free free fixed fixed fixed

177 free free free fixed fixed fixed

step 1 to

206 free free free fixed fixed fixed

208 free free free fixed fixed fixed

step 1 to

316 free free free fixed fixed fixed

318 free free free fixed fixed fixed

step 1 to

343 free free free fixed fixed fixed

* *Nodi crociere torri rotazioni bloccate

4067 free free free fixed fixed fixed

4073 free free free fixed fixed fixed

* *Struttura terminale Sicilia

5656 fixed fixed fixed fixed fixed fixed

5666 fixed fixed fixed fixed fixed fixed

* 5657 fixed fixed fixed fixed fixed fixed

* 5667 fixed fixed fixed fixed fixed fixed

* *Struttura terminale Calabria

6734 fixed fixed fixed fixed fixed fixed

6745 fixed fixed fixed fixed fixed fixed
 * 6735 fixed fixed fixed fixed fixed fixed
 * 6746 fixed fixed fixed fixed fixed fixed
 * *Pantano
 6750 fixed fixed fixed free free free
 6769 fixed fixed fixed free free free
 6793 fixed fixed fixed free free free
 6909 fixed fixed fixed fixed fixed fixed
 6910 fixed fixed fixed fixed fixed fixed
 6911 fixed fixed fixed fixed fixed fixed
 6912 fixed fixed fixed fixed fixed fixed
 6913 fixed fixed fixed fixed fixed fixed
 * *Vincoli Pantano senza molle
 * 6827 fixed fixed fixed fixed fixed fixed
 * 6839 fixed fixed fixed fixed fixed fixed
 * 6851 fixed fixed fixed fixed fixed fixed
 * 6863 fixed fixed fixed fixed fixed fixed
 * 6875 fixed fixed fixed fixed fixed fixed
 * *Vincoli impalcato stradale
 * 3505 free free fixed free free fixed
 * 3497 free free fixed free free fixed
 * 1959 free free fixed free free fixed
 * 1967 free free fixed free free fixed
 * Ferroviario
 * 891 free fixed fixed free free fixed
 * 878 free free fixed free free fixed
 * 874 free fixed fixed free free fixed
 * 1409 free fixed fixed free free fixed
 * 1422 free free fixed free free fixed
 * 1426 free fixed fixed free free fixed

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*      *Coordinate
*      350  -1817.75  -18.642  53.954
*      868  1817.75  -18.642  62.339
*      1432 -1817.75  18.642  53.954
*      1950 1817.75  18.642  62.339
*
*
*      *Vincoli impalcati ferroviari
*      873  fixed fixed fixed fixed fixed fixed
*      878  fixed fixed fixed fixed fixed fixed
*      891  fixed fixed fixed fixed fixed fixed
*      1409 free  fixed fixed free  free  free
*      1422 free  free  fixed free  free  free
*      1427 free  fixed fixed free  free  free
*
*      *Coordinate
*      873  -1858.38  0  53.637
*      878  -1842.38  0  53.877
*      891  -1817.75  0  53.943
*      1409 1817.75  0  62.328
*      1422 1842.38  0  62.199
*      1427 1858.38  0  62.257
*
*
*      Pantano
*      6811 fixed fixed fixed fixed fixed fixed
*      6792 fixed fixed fixed fixed fixed fixed
*      6768 fixed fixed fixed fixed fixed fixed
*
*      dataend
*
*      ***
*
*      *****
*
*      *VINCOLI CINEMATICI*
*
*      *****

```

*

*

rigidlink-node

4081 2024 small

1963 891 small

3501 1409 small

877 878 small

4077 1972 small

1957 350 small

1969 1432 small

3495 868 small

3507 1950 small

3749 3620 small

4196 1984 small

1974 355 small

1978 895 small

1982 1436 small

4078 1985 small

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1987 359 small

1991 900 small

901 900 small

1995 1441 small

4079 1998 small

2010 4198 small

2000 363 small

2004 905 small

2008 1446 small

4080 2011 small

4199 2023 small

2013 368 small

2017	910	small
2021	1450	small
4082	2037	small
4201	2049	small
2039	394	small
2043	936	small
2047	1477	small
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* ***Struttura terminale Sicilia

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4497 5501 small
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4857 5509 small
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4587 5520 small
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4590 4591 small
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5573 4663 small
4728 4729 small
5574 4729 small
4773 4772 small
5575 4772 small
4816 4817 small
5576 4817 small

4861	4862	small
5577	4862	small
4907	4906	small
5578	4906	small
4949	4950	small
5579	4950	small
4991	4992	small
5580	4992	small
5583	4371	small
4414	5584	small
4459	5585	small
4503	5586	small
4547	5587	small
4592	5588	small
4664	5589	small
4730	5590	small
4818	5591	small
4908	5592	small
4951	5593	small
5594	4993	small
4774	5596	small
4863	5597	small
4638	5598	small
5600	4372	small
4415	5601	small
4460	5602	small
4504	5603	small
4548	5604	small
4593	5605	small
4665	5606	small

4731 5607 small
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4775 5613 small
4864 5614 small
4639 5615 small
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4462 5636 small
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* *****

* ***Struttura terminale Calabria

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5777 6219 small
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6247	6182	small
5887	6232	small
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6147	6246	small
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5707	6251	small

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6747 6746 small
4194 6732 small
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6694 5702 small

5703 5702 small

* *****

* *Pantano

6828 6829 small

6830 6829 small

6832 6831 small

6833 6831 small

6840 6841 small

6842 6841 small

6844 6843 small

6845 6843 small

6852 6853 small

6854 6853 small

6856 6855 small

6857 6855 small

6864 6865 small

6866 6865 small

6868 6867 small

6869 6867 small

6876 6877 small

6878 6877 small

6880 6879 small

6881 6879 small

* ****

* *Buffer

6906 4809 small

6908 6049 small

6907 5826 small

6905 4538 small

* *****

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*      *Blocchi di ancoraggio

175   6915  small

4     6915  small

4317  6915  small

4316  6915  small

345   6917  small

174   6917  small

4318  6917  small

4319  6917  small

*      *****

*      ***MATERIALI***

*      *****

*      *Materiale = 1 Acciaio per elementi bielle Cavi/Pendini

*      *Materiale = 2 Acciaio per elementi beam
Torri/Impalcati/Traversi/Pendoli

*      *

*      *****

*      *** Cables material

*      ***

material  elastic    1      E=2e8 density=8.27161336379521
nu=0.3   alpha=0.000012

material  elastic    2      E=2e8 density=8.28219837034372
nu=0.3   alpha=0.000012

material  elastic    3      E=2e8 density=8.27432446428669
nu=0.3   alpha=0.000012

*      *****

*      ***hangers material

material  elastic    4      E=2e8 density=8.11086938155445
nu=0.3   alpha=0.000012

material  elastic    5      E=2e8 density=8.28773718374112
nu=0.3   alpha=0.000012

material  elastic    6      E=2e8 density=8.06846167353525
nu=0.3   alpha=0.000012

```

```

material    elastic    7      E=2e8 density=8.20466920265533
nu=0.3      alpha=0.000012

material    elastic    8      E=2e8 density=8.28764947353704
nu=0.3      alpha=0.000012

*          *****

*          ****Cassoni stradali

material    elastic    9      E=2.1e8   density=10.1610524202267
nu=0.3      alpha=0.000012

material    elastic    10     E=2.1e8   density=10.0825613119866
nu=0.3      alpha=0.000012

material    elastic    11     E=2.1e8   density=9.92300223776369
nu=0.3      alpha=0.000012

material    elastic    12     E=2.1e8   density=9.883267023275
nu=0.3      alpha=0.000012

*          *****

*          ****Cassoni ferroviari, traversi, torri, crociere, struttura
terminale

material    elastic    13     E=2.1e8   density=7.84913353720693
nu=0.3      alpha=0.000012

*          *****

*          *rigido per biella crociera

material    elastic    14     E=1e12    density=0   nu=0.3
alpha=0.000012

*          *****

*          *Struttura terminale CLS

material    elastic    15     E=3.522e7 density=2.54   nu=0.2
alpha=9.900E-06

*          *Buffer torri

material    plastic-b  16     H=kinematicE=3e7 nu=0.3      Y=10e3
et=500000  epa=0 density=0

*          material    elastic    16     E=1.5e7    density=0   nu=0.3
alpha=0.000012

*          *Buffer struttura terminali

material    plastic-b  17     H=kinematicE=2.35e6   nu=0.3      Y=5e3
et=235     epa=0 density=0

*          material    elastic    17     E=5.875e5  density=0   nu=0.3
alpha=0.000012

*          *Struttura terminale Acciaio

```

```

material elastic 18 E=2.1e8 density=8.634 nu=0.3
alpha=0.000012

* *Link torre

material plastic-b 19 H=kinematicE=3.129e7 nu=0.3
Y=25e3 et=3129 epa=0 density=0

* material elastic 19 E=7.8e6 density=63.1037328285035
nu=0.3 alpha=0.000012

* material elastic 20 E=210000000 density=51.5680278227499
nu=0.3 alpha=0.000012

* *****

* Fondazioni

material elastic 21 E=34478396 density=0 nu=0.3

material elastic 22 E=34478396 density=0 nu=0.3

* *****

* Splay Saddle

material elastic 23 E=2.1e8 density=0 nu=0.3
alpha=0.000012

* *

* ***

* *****

* *Sezioni beam

* *****

* ****

* *CASSONI STRADALI

cross-section pr 1 r=0.936 si=0.4 ti=8.752 a=0.528
sarea=0.303 ta=0.035

cross-section pr 2 r=1.01 si=0.424 ti=9.031 a=0.544
sarea=0.316 ta=0.037

cross-section pr 3 r=1.196 si=0.492 ti=9.867 a=0.589
sarea=0.355 ta=0.044

cross-section pr 4 r=1.189 si=0.502 ti=9.951 a=0.598
sarea=0.353 ta=0.044

cross-section pr 5 r=1.196 si=0.504 ti=10.044 a=0.6
sarea=0.355 ta=0.044

* *****

```

* ***CASSONI FERROVIARI

cross-section pr 6 sarea=0.2 ta=0.024	r=0.513	si=0.225	ti=1.867	a=0.353
cross-section pr 7 sarea=0.268 ta=0.024	r=0.855	si=0.493	ti=2.031	a=0.42
cross-section pr 8 sarea=0.23 ta=0.024	r=0.802	si=0.385	ti=2.01	a=0.383
cross-section pr 9 sarea=0.255 ta=0.024	r=0.844	si=0.459	ti=2.024	a=0.408
cross-section pr 10 sarea=0.358 ta=0.039	r=1.225	si=0.605	ti=2.714	a=0.526
cross-section pr 11 sarea=0.255 ta=0.04	r=0.891	si=0.464	ti=2.242	a=0.423
cross-section pr 12 sarea=0.056 ta=0.114	r=0.048	si=0.145	ti=1.105	a=0.36

* *****

* ***TRAVERSI

cross-section pr 13 sarea=0.776 ta=0.776	r=3.491	si=0.352	ti=3.139	a=0.776
cross-section pr 14 sarea=0.842 ta=0.842	r=4.625	si=0.882	ti=3.743	a=0.842
cross-section pr 15 sarea=0.89 ta=0.89	r=5.602	si=1.424	ti=4.178	a=0.89
cross-section pr 16 sarea=0.954 ta=0.954	r=7.149	si=2.386	ti=4.763	a=0.954
cross-section pr 17 sarea=1.004 ta=1.004	r=8.642	si=3.403	ti=5.239	a=1.004
cross-section pr 18 sarea=1.04 ta=1.04	r=9.774	si=4.195	ti=5.579	a=1.04
cross-section pr 19 sarea=0.328 ta=0.328	r=0.715	si=0.145	ti=0.57	a=0.328
cross-section pr 20 sarea=0.368 ta=0.368	r=1.078	si=0.365	ti=0.713	a=0.368
cross-section pr 21 sarea=0.397 ta=0.397	r=1.409	si=0.593	ti=0.816	a=0.397
cross-section pr 22 sarea=0.435 ta=0.435	r=1.959	si=1.004	ti=0.954	a=0.435
cross-section pr 23 sarea=0.466 ta=0.466	r=2.514	si=1.446	ti=1.068	a=0.466

cross-section pr 24 sarea=0.488 ta=0.488	r=2.941	si=1.793	ti=1.149	a=0.488
cross-section pr 25 sarea=0.244 ta=0.244	r=0.533	si=0.107	ti=0.426	a=0.244
cross-section pr 26 sarea=0.274 ta=0.274	r=0.806	si=0.271	ti=0.535	a=0.274
cross-section pr 27 sarea=0.296 ta=0.296	r=1.054	si=0.44	ti=0.614	a=0.296
cross-section pr 28 sarea=0.326 ta=0.326	r=1.465	si=0.745	ti=0.72	a=0.326
cross-section pr 29 sarea=0.35 ta=0.35	r=1.88	si=1.074	ti=0.806	a=0.35
cross-section pr 30 sarea=0.367 ta=0.367	r=2.2	si=1.332	ti=0.869	a=0.367
cross-section pr 31 sarea=0.486 ta=0.486	r=2.211	si=0.223	ti=1.988	a=0.486
cross-section pr 32 sarea=0.531 ta=0.531	r=2.95	si=0.555	ti=2.395	a=0.531
cross-section pr 33 sarea=0.563 ta=0.563	r=3.583	si=0.894	ti=2.689	a=0.563
cross-section pr 34 sarea=0.606 ta=0.606	r=4.581	si=1.498	ti=3.083	a=0.606
cross-section pr 35 sarea=0.641 ta=0.641	r=5.543	si=2.138	ti=3.405	a=0.641
cross-section pr 36 sarea=0.665 ta=0.665	r=6.273	si=2.637	ti=3.635	a=0.665
cross-section pr 37 sarea=0.673 ta=0.673	r=3.434	si=0.31	ti=3.123	a=0.673
cross-section pr 38 sarea=0.722 ta=0.722	r=4.432	si=0.771	ti=3.66	a=0.722
cross-section pr 39 sarea=0.758 ta=0.758	r=5.287	si=1.24	ti=4.047	a=0.758
cross-section pr 40 sarea=0.806 ta=0.806	r=6.633	si=2.066	ti=4.567	a=0.806
cross-section pr 41 sarea=0.843 ta=0.843	r=7.925	si=2.935	ti=4.989	a=0.843
cross-section pr 42 sarea=0.869 ta=0.869	r=8.903	si=3.611	ti=5.291	a=0.869
cross-section pr 43 sarea=0.6 ta=0.54	r=2.153	si=1.505	ti=1.586	a=1.14

* ***

* ****TORRE SICILIA

cross-section pr 44 sarea=3.331 ta=2.494	r=274.628	si=173.52	ti=470.937	a=11.47
cross-section pr 45 sarea=3.016 ta=2.18	r=244.02	si=158.788	ti=435.382	a=10.544
cross-section pr 46 sarea=2.421 ta=1.709	r=218.912	si=139.507	ti=403.607	a=9.328
cross-section pr 47 sarea=1.944 ta=1.712	r=184.026	si=124.014	ti=382.677	a=8.629
cross-section pr 48 sarea=1.626 ta=1.435	r=158.643	si=112.022	ti=358.925	a=7.886
cross-section pr 49 sarea=1.709 ta=1.354	r=158.966	si=112.519	ti=327.004	a=7.591
cross-section pr 50 sarea=2.148 ta=1.351	r=198.147	si=131.256	ti=348.165	a=8.326
cross-section pr 51 sarea=2.545 ta=1.627	r=218.072	si=143.083	ti=381.158	a=9.222
cross-section pr 52 sarea=2.029 ta=1.55	r=182.427	si=127.77	ti=342.356	a=8.332
cross-section pr 53 sarea=1.789 ta=1.314	r=162.49	si=114.884	ti=330.791	a=7.706
cross-section pr 54 sarea=1.552 ta=1.274	r=141.644	si=106.356	ti=305.407	a=7.206
cross-section pr 55 sarea=1.791 ta=1.273	r=162.596	si=116.462	ti=316.395	a=7.593
cross-section pr 56 sarea=2.069 ta=1.312	r=187.272	si=127.586	ti=338.076	a=8.134
cross-section pr 57 sarea=1.867 ta=1.393	r=182.987	si=121.588	ti=353.049	a=8.086
cross-section pr 58 sarea=2.025 ta=1.432	r=195.458	si=126.812	ti=364.879	a=8.358
cross-section pr 59 sarea=2.025 ta=1.432	r=193.565	si=125.55	ti=368.183	a=8.357
cross-section pr 60 sarea=2.024 ta=1.393	r=177.764	si=120.046	ti=360.717	a=8.169
cross-section pr 61 sarea=1.869 ta=1.352	r=180.008	si=122.312	ti=332.865	a=7.9

cross-section pr 62 sarea=1.754 ta=1.232	r=160.624	si=117.888	ti=297.845	a=7.441
cross-section pr 63 sarea=1.635 ta=1.154	r=133.778	si=108.532	ti=275.978	a=7.02
cross-section pr 64 sarea=1.753 ta=1.392	r=130.533	si=110.914	ti=286.276	a=7.301
* ***				
* ****TRAVERSI TORRI				
cross-section pr 65 sarea=0.834 ta=0.411	r=41.034	si=133.87	ti=26.06	a=2.191
cross-section pr 66 sarea=0.728 ta=0.411	r=34.65	si=98.535	ti=24.365	a=2.084
cross-section pr 67 sarea=0.811 ta=0.411	r=35	si=74.99	ti=22.537	a=1.948
cross-section pr 68 sarea=0.685 ta=0.408	r=27.873	si=51.041	ti=20.526	a=1.82
cross-section pr 69 sarea=0.736 ta=0.403	r=26.466	si=40.487	ti=21.26	a=1.871
cross-section pr 70 sarea=0.679 ta=0.4	r=23.49	si=33.511	ti=20.341	a=1.811
cross-section pr 71 sarea=0.947 ta=0.493	r=45.028	si=120.8	ti=28.24	a=2.385
cross-section pr 72 sarea=0.833 ta=0.493	r=38.334	si=90.653	ti=26.439	a=2.272
cross-section pr 73 sarea=0.898 ta=0.493	r=37.713	si=69.986	ti=24.316	a=2.117
cross-section pr 74 sarea=0.779 ta=0.488	r=31.011	si=50.396	ti=22.408	a=1.993
cross-section pr 75 sarea=0.838 ta=0.483	r=30.167	si=42.596	ti=23.264	a=2.052
cross-section pr 76 sarea=0.79 ta=0.48	r=27.655	si=37.126	ti=22.496	a=2.002
cross-section pr 77 sarea=0.852 ta=0.411	r=37.317	si=89.17	ti=26.29	a=2.208
cross-section pr 78 sarea=0.758 ta=0.411	r=32	si=68.588	ti=24.802	a=2.114
cross-section pr 79 sarea=0.691 ta=0.49	r=30.014	si=56.111	ti=21.062	a=1.908

cross-section pr 80 sarea=0.621 ta=0.485	r=25.928	si=43.862	ti=19.911	a=1.832
cross-section pr 81 sarea=0.705 ta=0.402	r=24.833	si=36.595	ti=20.754	a=1.837
cross-section pr 82 sarea=0.677 ta=0.4	r=23.386	si=33.337	ti=20.306	a=1.808
cross-section pr 83 sarea=0.691 ta=0.49	r=30.014	si=56.09	ti=21.05	a=1.907
* *****				
* ***TORRE CALABRIA				
cross-section pr 84 sarea=3.056 ta=2.417	r=244.02	si=161.707	ti=440.01	a=10.821
cross-section pr 85 sarea=2.701 ta=2.023	r=224.363	si=148.722	ti=406.411	a=9.848
cross-section pr 86 sarea=2.503 ta=1.628	r=208.971	si=138.366	ti=382.317	a=9.107
cross-section pr 87 sarea=2.147 ta=1.471	r=183.746	si=125.601	ti=353.795	a=8.37
cross-section pr 88 sarea=1.789 ta=1.314	r=157.472	si=112.76	ti=328.274	a=7.631
cross-section pr 89 sarea=1.551 ta=1.314	r=143.074	si=106.406	ti=309.261	a=7.245
cross-section pr 90 sarea=1.79 ta=1.313	r=164.489	si=116.512	ti=320.239	a=7.632
cross-section pr 91 sarea=2.028 ta=1.312	r=173.946	si=121.984	ti=333.389	a=7.944
cross-section pr 92 sarea=1.791 ta=1.273	r=162.596	si=116.462	ti=316.395	a=7.593
cross-section pr 93 sarea=1.632 ta=1.274	r=148.928	si=110.406	ti=302.471	a=7.285
cross-section pr 94 sarea=1.552 ta=1.274	r=134.845	si=104.631	ti=293.651	a=7.057
cross-section pr 95 sarea=1.713 ta=1.233	r=156.355	si=115.258	ti=301.545	a=7.4
cross-section pr 96 sarea=1.712 ta=1.273	r=162.596	si=116.169	ti=311.274	a=7.514
cross-section pr 97 sarea=1.87 ta=1.273	r=162.596	si=116.754	ti=321.515	a=7.672

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cross-section pr 98      r=162.49   si=114.884 ti=330.791 a=7.706
sarea=1.789 ta=1.314

cross-section pr 99      r=155.311  si=110.883 ti=337.532 a=7.665
sarea=1.708 ta=1.354

cross-section pr 100     r=149.608  si=108.463 ti=329.912 a=7.511
sarea=1.629 ta=1.354

cross-section pr 101     r=141.644  si=106.356 ti=305.407 a=7.206
sarea=1.552 ta=1.274

cross-section pr 102     r=131.501  si=104.235 ti=280.79  a=6.899
sarea=1.475 ta=1.194

cross-section pr 103     r=113.934  si=100.264 ti=258.7   a=6.596
sarea=1.476 ta=1.114

cross-section pr 104     r=116.146  si=102.173 ti=270.591 a=6.874
sarea=1.595 ta=1.274

* *****

* ***CROCIERE

* cross-section pr 105   r=0.03     si=0.017   ti=0.025   a=0.094
sarea=0.053 ta=0.041

* *sezione per biella crociera

* cross-section pr 106   r=0.01     si=0.01    ti=0.01    a=0.01
sarea=0.01 ta=0.01

* *****

* ***SPLAY SADDLE

cross-section pr 107     r=34.346   si=15.265  ti=19.081  a=14.311
sarea=14.311 ta=14.311

cross-section pr 108     r=31.488   si=13.275  ti=18.214  a=13.66
sarea=13.66 ta=13.66

* *****

* ***FONDAZIONI

cross-section pr 109     r=1666.667 si=833.333 ti=833.333 a=100
sarea=100 ta=100

cross-section pr 110     r=13118.813 si=5585.813 ti=5585.813 a=279
sarea=279 ta=279

* *****

* ***STRUTTURE TERMINALI

cross-section pr 111     r=1.07969838461538 si=0.8111 ti=0.0015
a=0.1281 sarea=0.01 ta=0.0794

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cross-section pr 112	r=5.06137869230769	si=0.18	ti=0.0013	
a=0.0823	sarea=0.01	ta=0.044		
cross-section pr 113	r=1.07969838461538	si=0.1258	ti=0.0306	
a=0.0919	sarea=0.0437	ta=0.028		
cross-section pr 114	r=5.06137869230769	si=0.7316	ti=0.0512	
a=0.1616	sarea=0.061	ta=0.063		
cross-section pr 115	r=3.820359	si=0.7322	ti=0.0358	a=0.1325
sarea=0.035	ta=0.063			
cross-section pr 116	r=1.06095276923077	si=0.1441	ti=0.0334	
a=0.1005	sarea=0.04237	ta=0.028		
cross-section pr 117	r=1.07969838461538	si=0.3088	ti=0.2833	
a=0.1998	sarea=0.112	ta=0.028		
cross-section pr 118	r=5.06137869230769	si=2.7797	ti=0.4627	
a=0.4384	sarea=0.28	ta=0.1		
cross-section pr 119	r=3.820359	si=2.6036	ti=0.3356	a=0.3612
sarea=0.194	ta=0.1			
cross-section pr 120	r=3.820359	si=3.3437	ti=0.3936	a=0.3824
sarea=0.194	ta=0.1			
cross-section pr 121	r=6.24254084615385	si=3.3315	ti=0.393	
a=0.3806	sarea=0.194	ta=0.11		
cross-section pr 122	r=1.06095276923077	si=0.478	ti=0.4418	
a=0.3444	sarea=0.112	ta=0.028		
cross-section pr 123	r=1.07969838461538	si=0.4622	ti=0.511	
a=0.2834	sarea=0.19	ta=0.028		
cross-section pr 124	r=5.06137869230769	si=3.7968	ti=1.1667	
a=0.6163	sarea=0.426	ta=0.1		
cross-section pr 125	r=3.820359	si=3.4882	ti=0.9012	a=0.5194
sarea=0.34	ta=0.1			
cross-section pr 126	r=3.820359	si=4.3367	ti=0.8727	a=0.5267
sarea=0.34	ta=0.1			
cross-section pr 127	r=1.06095276923077	si=0.4361	ti=0.5634	
a=0.2702	sarea=0.19	ta=0.028		
cross-section pr 128	r=1.07969838461538	si=0.6852	ti=0.6982	
a=0.4611	sarea=0.19	ta=0.14		
cross-section pr 129	r=5.06137869230769	si=4.2893	ti=1.2429	
a=0.7502	sarea=0.43	ta=0.22		
cross-section pr 130	r=3.820359	si=4.0763	ti=0.9483	a=0.6495
sarea=0.34	ta=0.22			
cross-section pr 131	r=3.820359	si=5.1513	ti=0.8781	a=0.6663
sarea=0.34	ta=0.22			

cross-section pr 132 r=1.06095276923077 si=0.5779 ti=0.9398
a=0.4345 sarea=0.19 ta=0.14

cross-section pr 133 r=1.07969838461538 si=0.475 ti=0.4677
a=0.3271 sarea=0.21 ta=0.1

cross-section pr 134 r=5.06137869230769 si=3.3457 ti=0.9979
a=0.5813 sarea=0.43 ta=0.1

cross-section pr 135 r=3.820359 si=3.0981 ti=0.7766 a=0.4911
sarea=0.34 ta=0.1

cross-section pr 136 r=3.820359 si=3.9744 ti=0.7799 a=0.5099
sarea=0.34 ta=0.1

cross-section pr 137 r=1.06095276923077 si=0.4013 ti=0.4433
a=0.2513 sarea=0.21 ta=0.1

cross-section pr 138 r=1.07969838461538 si=0.3407 ti=0.3667
a=0.223 sarea=0.13 ta=0.042

cross-section pr 139 r=5.06137869230769 si=2.7233 ti=0.6005
a=0.455 sarea=0.27 ta=0.1

cross-section pr 140 r=3.820359 si=2.5467 ti=0.5245 a=0.3862
sarea=0.24 ta=0.1

cross-section pr 141 r=3.820359 si=3.2878 ti=0.4813 a=0.3947
sarea=0.24 ta=0.1

cross-section pr 142 r=6.24254084615385 si=4.1202 ti=0.7664
a=0.5098 sarea=0.24 ta=0.11

cross-section pr 143 r=1.06095276923077 si=0.4411 ti=0.5543
a=0.2762 sarea=0.13 ta=0.042

cross-section pr 144 r=1.07969838461538 si=0.4978 ti=0.4684
a=0.3702 sarea=0.257 ta=0.068

cross-section pr 145 r=5.06137869230769 si=0.3597 ti=0.4279
a=0.2348 sarea=0.13 ta=0.042

cross-section pr 146 r=3.820359 si=0.6149 ti=1.5068 a=0.5307
sarea=0.13 ta=0.042

cross-section pr 147 r=6.24254084615385 si=4.0908 ti=0.7022
a=0.5024 sarea=0.31 ta=0.11

cross-section pr 148 r=1.06095276923077 si=0.563 ti=1.5134
a=0.4381 sarea=0.257 ta=0.068

cross-section pr 149 r=1.233924 si=1.481832 ti=0.078127 a=0.2466
sarea=0.125 ta=0.0975

cross-section pr 150 r=1.233924 si=1.793102 ti=0.078133 a=0.311
sarea=0.125 ta=0.1625

cross-section pr 151 r=1.233924 si=2.207456 ti=0.078159 a=0.4076
sarea=0.125 ta=0.26

cross-section pr 152 r=1.233924 si=0.616962 ti=0.00616962 a=0.1
sarea=0.00015 ta=0.015

cross-section pr 153 r=0.251664 si=0.125832 ti=0.00125832 a=0.1
sarea=0.000022 ta=0.0022

cross-section pr 154 r=39386.9136 si=46883.8125 ti=15309
a=567 sarea=472.5 ta=472.5

cross-section pr 155 r=586.734978 si=742.916267
ti=247.951467 a=35.36 sarea=16.4145 ta=22.56114

cross-section pr 156 r=302.931942 si=253.332007
ti=168.304133 a=26.6 sarea=15.438336 ta=13.680909

cross-section pr 157 r=302.931942 si=253.332007
ti=168.304133 a=26.6 sarea=15.438336 ta=13.680909

* ***PANTANO

cross-section pr 158 r=3.071547 si=1.078995 ti=8.174261 a=0.500846
sarea=0.400615 ta=0.122072

cross-section pr 159 r=11 si=5.714423 ti=29.37289 a=2.150144
sarea=1.536275 ta=0.405369

cross-section pr 160 r=1.969321 si=2.343745 ti=0.881274 a=0.5184
sarea=0.18 ta=0.342

cross-section pr 161 r=81.189038 si=65.864533 ti=48.088533
a=15.04 sarea=8 ta=9.6

cross-section pr 162 r=764.276894 si=1803.389056
ti=280.337916 a=59.533049 sarea=23.527005 ta=48.268173

cross-section pr 163 r=1171.748836 si=3775.154577
ti=467.05806 a=85.09515 sarea=43.773008 ta=61.122628

cross-section pr 164 r=28773.63794 si=53593.75 ti=9843.75 a=525
sarea=437.5 ta=437.5

cross-section pr 165 r=0.1 si=0.1 ti=0.1 a=0.1 sarea=0.1
ta=0.1

* ***

* *

* *****

* ***---RILASCI---***

* *****

* *****

endrelease n=1 11 12

endrelease n=2 4 5 6 10 11 12

endrelease n=3 1 5 6
endrelease n=4 5 6
endrelease n=5 7 11 12

* *Pantano

endrelease n=6 5 6
endrelease n=7 7 11 12

* *Fisso

endrelease n=8 11

* *Multidirezionale

endrelease n=9 2 3 5 6

* *Unidirezionale

endrelease n=10 2 5 6

endrelease n=11 2 3 5 6

endrelease n=12 2 5 6

endrelease n=13 7 11

*

* *****

* *-----CAVI-----*

* *****

*

* *Materiali

* *M=1 Sicilia side

* *M=2 main span

* *M=3 Calabria side


```

*      *material  elastic    1      E=2e8 density=8.27161336379521
      nu=0.3      alpha=0.000012

*      *material  elastic    2      E=2e8 density=8.28219837034372
      nu=0.3      alpha=0.000012

*      *material  elastic    3      E=2e8 density=8.27432446428669
      nu=0.3      alpha=0.000012

*      *****

*      "**Dati da file: ""Cable properties and forces""**"

*      *****

*

*      E-modulus: 200000      Mpa

*      Temperature coeffient 1.2E-05

*

*

*      Areas and weights are total values for each cable plane.

*      The values must be divided by the number of modelled cables in each
cable plane.

*

*

*      Area[m2]      Weight [MN/m]

*      Sicily sidespan: 2*0.941      2*0.941*0.077+0.0014*2+0.005

*      main span: 2*0.918      2*0.918*0.077+0.0014*2+0.005

*      Calabria sidespan:      2*0.935      2*0.935*0.077+0.0014*2+0.005

*

*      Weight is weight of steel + wrapping+ clamps

*

*

*      Area (m2)      Peso (MN/m) Peso (kN/m) ? (kN/m3)      ? (t/m3)

*      Sicily sidespan: 1.882 0.152714      152.714      81.1445271 8.271613364

*      main span: 1.836 0.149172      149.172      81.24836601 8.28219837

*      Calabria sidespan:      1.870 0.15179      151.79      81.17112299
8.274324464

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*      *****
*      ***Lungh. Cavo***
*      *****
*      Sicilia side      1045.11551 m
*      Main span  3378.707 m
*      Calabria side    881.81549 m
*      *****
*      ***Peso cavi***
*      Sicilia side      159604 kN
*      Main span  504008 kN
*      Calabria side    133851 kN
*      TOTALE      797463 kN (Cavi y = -26 m o y = 26 m)
*      TOTALE*2    1594926 kN (Cavi y = -26 m + y = 26 m)
*
*      *****
*      *****
*
*      *
*
*      *****
*
*      *** EGROUP 1: CAVI (y = -26 m) ***
*
*      *****
*
*      egroup truss 1 initialstrain=element disp=large cmass=yes
*
*      enodes
*
*      entries el n1 n2
*
*      1      4      5
*
*      2      5      6
*
*      3      6      7
*
*      4      7      8
*
*      5      8      9
*
*      6      9      10
*
*      7      10     11

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9	12	13
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161 164 165
162 165 166
163 166 167
164 167 168
165 168 169
166 169 170
167 170 171
168 171 172
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edata

entries el material area print save epsin

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*** EGROUP 2: CAVI (y = 26 m)***

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edata

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*MATERIALI*
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AREE
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Materiale
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8.1108693824
*
3, 4, 116, 117 0.023244  0.0018898  0.081302702 81.30270177
8.2877371845
*
6-8, 112-114 0.023244  0.0018398  0.079151609 79.15160902
8.0684616746
*
9-20, 100-111 0.01435  0.001155  0.080487805 80.48780488
8.2046692037
*
21-99 0.011622  0.00094489  0.081301841 81.30184134 8.287649474 8
*
***hangers material
*
material  elastic  4  E=2e8 density=8.11086938155445
nu=0.3  alpha=0.000012
*
material  elastic  5  E=2e8 density=8.28773718374112
nu=0.3  alpha=0.000012
*
material  elastic  6  E=2e8 density=8.06846167353525
nu=0.3  alpha=0.000012
*
material  elastic  7  E=2e8 density=8.20466920265533
nu=0.3  alpha=0.000012
*
material  elastic  8  E=2e8 density=8.28764947353704
nu=0.3  alpha=0.000012
*
*****
*
*PESO PENDINI
*
PESO TOTALE PENDINI y = -26 m o y = +26 m 22877 kN
*
*
PESO TOTALE PENDINI y = -26 m + y = +26 m 45755 kN
*
INCIDENZA PENDINI 13 kN/m
*

```

```
*
*****
*****
*
```

```
* *-----
```

```
* *****
```

```
* *-----EGROUP 3: PENDINI (y = -26 m)-----*
```

```
* *****
```

```
* *-----
```

```
egroup truss 3 initialstrain=element disp=large cmass=yes
```

```
enodes
```

```
entries el n1 n2
```

```
1 4076 30
```

```
2 4077 32
```

```
3 4078 33
```

```
4 4079 34
```

```
5 4080 35
```

```
6 4081 37
```

```
7 4082 38
```

```
8 4083 39
```

```
9 4084 40
```

```
10 4085 41
```

```
11 4086 42
```

```
12 4087 43
```

```
13 4088 44
```

```
14 4089 45
```

```
15 4090 46
```

```
16 4091 47
```

```
17 4092 48
```

```
18 4093 49
```

```
19 4094 50
```

20	4095	51
21	4096	52
22	4097	53
23	4098	54
24	4099	55
25	4100	56
26	4101	57
27	4102	58
28	4103	59
29	4104	60
30	4105	61
31	4106	62
32	4107	63
33	4108	64
34	4109	65
35	4110	66
36	4111	67
37	4112	68
38	4113	69
39	4114	70
40	4115	71
41	4116	72
42	4117	73
43	4118	74
44	4119	75
45	4120	76
46	4121	77
47	4122	78
48	4123	79
49	4124	80

50	4125	81
51	4126	82
52	4127	83
53	4128	84
54	4129	85
55	4130	86
56	4131	87
57	4132	88
58	4133	89
59	4134	90
60	4135	91
61	4136	92
62	4137	93
63	4138	94
64	4139	95
65	4140	96
66	4141	97
67	4142	98
68	4143	99
69	4144	100
70	4145	101
71	4146	102
72	4147	103
73	4148	104
74	4149	105
75	4150	106
76	4151	107
77	4152	108
78	4153	109
79	4154	110

80	4155	111
81	4156	112
82	4157	113
83	4158	114
84	4159	115
85	4160	116
86	4161	117
87	4162	118
88	4163	119
89	4164	120
90	4165	121
91	4166	122
92	4167	123
93	4168	124
94	4169	125
95	4170	126
96	4171	127
97	4172	128
98	4173	129
99	4174	130
100	4175	131
101	4176	132
102	4177	133
103	4178	134
104	4179	135
105	4180	136
106	4181	137
107	4182	138
108	4183	139
109	4184	140

110 4185 141
111 4186 142
112 4187 143
113 4188 144
114 4189 145
115 4190 147
116 4191 148
117 4192 149
118 4193 150
119 4194 152

@

edata

entries el material area print save epsin

1	4	0.038948	no	yes	0.00189572
2	4	0.038948	no	no	0.000863254
3	5	0.023244	no	no	0.000767467
4	5	0.023244	no	no	0.000887433
5	4	0.038948	no	no	0.001061685
6	6	0.023244	no	no	0.00166914
7	6	0.023244	no	no	0.000914365
8	6	0.023244	no	no	0.000878442
9	7	0.01435	no	no	0.001381951
10	7	0.01435	no	no	0.001370279
11	7	0.01435	no	no	0.001332683
12	7	0.01435	no	no	0.00132892
13	7	0.01435	no	no	0.001327282
14	7	0.01435	no	no	0.00132547
15	7	0.01435	no	no	0.001323833
16	7	0.01435	no	no	0.001321742
17	7	0.01435	no	no	0.001320035

18	7	0.01435	no	no	0.001318049
19	7	0.01435	no	no	0.001316202
20	7	0.01435	no	no	0.001313728
21	8	0.011622	no	no	0.001613492
22	8	0.011622	no	no	0.001610953
23	8	0.011622	no	no	0.001609319
24	8	0.011622	no	no	0.001607555
25	8	0.011622	no	no	0.001606178
26	8	0.011622	no	no	0.0016045
27	8	0.011622	no	no	0.001603123
28	8	0.011622	no	no	0.001601532
29	8	0.011622	no	no	0.001600284
30	8	0.011622	no	no	0.001598778
31	8	0.011622	no	no	0.001597531
32	8	0.011622	no	no	0.001596111
33	8	0.011622	no	no	0.001595035
34	8	0.011622	no	no	0.001593702
35	8	0.011622	no	no	0.001592626
36	8	0.011622	no	no	0.001591551
37	8	0.011622	no	no	0.001590819
38	8	0.011622	no	no	0.001589572
39	8	0.011622	no	no	0.001579332
40	8	0.011622	no	no	0.001573352
41	8	0.011622	no	no	0.001571244
42	8	0.011622	no	no	0.001570255
43	8	0.011622	no	no	0.001569738
44	8	0.011622	no	no	0.001568835
45	8	0.011622	no	no	0.00156819
46	8	0.011622	no	no	0.001567329
47	8	0.011622	no	no	0.001566813

48	8	0.011622	no	no	0.001566082
49	8	0.011622	no	no	0.001565651
50	8	0.011622	no	no	0.001565006
51	8	0.011622	no	no	0.001564662
52	8	0.011622	no	no	0.001564146
53	8	0.011622	no	no	0.001563887
54	8	0.011622	no	no	0.001563457
55	8	0.011622	no	no	0.001563285
56	8	0.011622	no	no	0.001562984
57	8	0.011622	no	no	0.001562855
58	8	0.011622	no	no	0.001562683
59	8	0.011622	no	no	0.00156264
60	8	0.011622	no	no	0.001562554
61	8	0.011622	no	no	0.00156264
62	8	0.011622	no	no	0.001562683
63	8	0.011622	no	no	0.001562855
64	8	0.011622	no	no	0.001562984
65	8	0.011622	no	no	0.001563242
66	8	0.011622	no	no	0.001563457
67	8	0.011622	no	no	0.001563844
68	8	0.011622	no	no	0.001564103
69	8	0.011622	no	no	0.001564619
70	8	0.011622	no	no	0.001565006
71	8	0.011622	no	no	0.001565608
72	8	0.011622	no	no	0.001566039
73	8	0.011622	no	no	0.001566727
74	8	0.011622	no	no	0.001567243
75	8	0.011622	no	no	0.001568018
76	8	0.011622	no	no	0.00156862
77	8	0.011622	no	no	0.001569437

78	8	0.011622	no	no	0.001569997
79	8	0.011622	no	no	0.001570857
80	8	0.011622	no	no	0.001572965
81	8	0.011622	no	no	0.001578945
82	8	0.011622	no	no	0.001589098
83	8	0.011622	no	no	0.001590346
84	8	0.011622	no	no	0.001591034
85	8	0.011622	no	no	0.00159211
86	8	0.011622	no	no	0.001593142
87	8	0.011622	no	no	0.00159439
88	8	0.011622	no	no	0.001595509
89	8	0.011622	no	no	0.001596842
90	8	0.011622	no	no	0.001598047
91	8	0.011622	no	no	0.001599467
92	8	0.011622	no	no	0.0016008
93	8	0.011622	no	no	0.001602263
94	8	0.011622	no	no	0.001603683
95	8	0.011622	no	no	0.001605231
96	8	0.011622	no	no	0.001606694
97	8	0.011622	no	no	0.001608286
98	8	0.011622	no	no	0.001610007
99	8	0.011622	no	no	0.001612373
100	7	0.01435	no	no	0.001312718
101	7	0.01435	no	no	0.001315122
102	7	0.01435	no	no	0.001316934
103	7	0.01435	no	no	0.001318815
104	7	0.01435	no	no	0.001320592
105	7	0.01435	no	no	0.001322578
106	7	0.01435	no	no	0.001324286
107	7	0.01435	no	no	0.001325923

108	7	0.01435	no	no	0.001327631
109	7	0.01435	no	no	0.001331289
110	7	0.01435	no	no	0.00136892
111	7	0.01435	no	no	0.001380627
112	6	0.023244	no	no	0.000877087
113	6	0.023244	no	no	0.000913419
114	6	0.023244	no	no	0.001666193
115	4	0.038948	no	no	0.001060183
116	5	0.023244	no	no	0.000891198
117	5	0.023244	no	no	0.000760153
118	4	0.038948	no	no	0.000860314
119	4	0.038948	no	yes	0.001889327

*

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-----EGROUP 4: PENDINI (y = +26 m)-----

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*

*-----

egroup truss 4 initialstrain=element disp=large cmass=yes

enodes

entries el n1 n2

1 4195 201

2 4196 203

3 4197 204

4 4198 205

5 4199 206

6 4200 208

7 4201 209

8 4202 210

9 4203 211

10	4204	212
11	4205	213
12	4206	214
13	4207	215
14	4208	216
15	4209	217
16	4210	218
17	4211	219
18	4212	220
19	4213	221
20	4214	222
21	4215	223
22	4216	224
23	4217	225
24	4218	226
25	4219	227
26	4220	228
27	4221	229
28	4222	230
29	4223	231
30	4224	232
31	4225	233
32	4226	234
33	4227	235
34	4228	236
35	4229	237
36	4230	238
37	4231	239
38	4232	240
39	4233	241

40	4234	242
41	4235	243
42	4236	244
43	4237	245
44	4238	246
45	4239	247
46	4240	248
47	4241	249
48	4242	250
49	4243	251
50	4244	252
51	4245	253
52	4246	254
53	4247	255
54	4248	256
55	4249	257
56	4250	258
57	4251	259
58	4252	260
59	4253	261
60	4254	262
61	4255	263
62	4256	264
63	4257	265
64	4258	266
65	4259	267
66	4260	268
67	4261	269
68	4262	270
69	4263	271

70	4264	272
71	4265	273
72	4266	274
73	4267	275
74	4268	276
75	4269	277
76	4270	278
77	4271	279
78	4272	280
79	4273	281
80	4274	282
81	4275	283
82	4276	284
83	4277	285
84	4278	286
85	4279	287
86	4280	288
87	4281	289
88	4282	290
89	4283	291
90	4284	292
91	4285	293
92	4286	294
93	4287	295
94	4288	296
95	4289	297
96	4290	298
97	4291	299
98	4292	300
99	4293	301

100 4294 302
101 4295 303
102 4296 304
103 4297 305
104 4298 306
105 4299 307
106 4300 308
107 4301 309
108 4302 310
109 4303 311
110 4304 312
111 4305 313
112 4306 314
113 4307 315
114 4308 316
115 4309 318
116 4310 319
117 4311 320
118 4312 321
119 4313 323

@

edata

entries el material area print save epsin

1	4	0.038948	no	yes	0.00189572
2	4	0.038948	no	no	0.000863254
3	5	0.023244	no	no	0.000767467
4	5	0.023244	no	no	0.000887433
5	4	0.038948	no	no	0.001061685
6	6	0.023244	no	no	0.00166914
7	6	0.023244	no	no	0.000914365

8	6	0.023244	no	no	0.000878442
9	7	0.01435	no	no	0.001381951
10	7	0.01435	no	no	0.001370279
11	7	0.01435	no	no	0.001332683
12	7	0.01435	no	no	0.00132892
13	7	0.01435	no	no	0.001327282
14	7	0.01435	no	no	0.00132547
15	7	0.01435	no	no	0.001323833
16	7	0.01435	no	no	0.001321742
17	7	0.01435	no	no	0.001320035
18	7	0.01435	no	no	0.001318049
19	7	0.01435	no	no	0.001316202
20	7	0.01435	no	no	0.001313728
21	8	0.011622	no	no	0.001613492
22	8	0.011622	no	no	0.001610953
23	8	0.011622	no	no	0.001609319
24	8	0.011622	no	no	0.001607555
25	8	0.011622	no	no	0.001606178
26	8	0.011622	no	no	0.0016045
27	8	0.011622	no	no	0.001603123
28	8	0.011622	no	no	0.001601532
29	8	0.011622	no	no	0.001600284
30	8	0.011622	no	no	0.001598778
31	8	0.011622	no	no	0.001597531
32	8	0.011622	no	no	0.001596111
33	8	0.011622	no	no	0.001595035
34	8	0.011622	no	no	0.001593702
35	8	0.011622	no	no	0.001592626
36	8	0.011622	no	no	0.001591551
37	8	0.011622	no	no	0.001590819

38	8	0.011622	no	no	0.001589572
39	8	0.011622	no	no	0.001579332
40	8	0.011622	no	no	0.001573352
41	8	0.011622	no	no	0.001571244
42	8	0.011622	no	no	0.001570255
43	8	0.011622	no	no	0.001569738
44	8	0.011622	no	no	0.001568835
45	8	0.011622	no	no	0.00156819
46	8	0.011622	no	no	0.001567329
47	8	0.011622	no	no	0.001566813
48	8	0.011622	no	no	0.001566082
49	8	0.011622	no	no	0.001565651
50	8	0.011622	no	no	0.001565006
51	8	0.011622	no	no	0.001564662
52	8	0.011622	no	no	0.001564146
53	8	0.011622	no	no	0.001563887
54	8	0.011622	no	no	0.001563457
55	8	0.011622	no	no	0.001563285
56	8	0.011622	no	no	0.001562984
57	8	0.011622	no	no	0.001562855
58	8	0.011622	no	no	0.001562683
59	8	0.011622	no	no	0.00156264
60	8	0.011622	no	no	0.001562554
61	8	0.011622	no	no	0.00156264
62	8	0.011622	no	no	0.001562683
63	8	0.011622	no	no	0.001562855
64	8	0.011622	no	no	0.001562984
65	8	0.011622	no	no	0.001563242
66	8	0.011622	no	no	0.001563457
67	8	0.011622	no	no	0.001563844

68	8	0.011622	no	no	0.001564103
69	8	0.011622	no	no	0.001564619
70	8	0.011622	no	no	0.001565006
71	8	0.011622	no	no	0.001565608
72	8	0.011622	no	no	0.001566039
73	8	0.011622	no	no	0.001566727
74	8	0.011622	no	no	0.001567243
75	8	0.011622	no	no	0.001568018
76	8	0.011622	no	no	0.00156862
77	8	0.011622	no	no	0.001569437
78	8	0.011622	no	no	0.001569997
79	8	0.011622	no	no	0.001570857
80	8	0.011622	no	no	0.001572965
81	8	0.011622	no	no	0.001578945
82	8	0.011622	no	no	0.001589098
83	8	0.011622	no	no	0.001590346
84	8	0.011622	no	no	0.001591034
85	8	0.011622	no	no	0.00159211
86	8	0.011622	no	no	0.001593142
87	8	0.011622	no	no	0.00159439
88	8	0.011622	no	no	0.001595509
89	8	0.011622	no	no	0.001596842
90	8	0.011622	no	no	0.001598047
91	8	0.011622	no	no	0.001599467
92	8	0.011622	no	no	0.0016008
93	8	0.011622	no	no	0.001602263
94	8	0.011622	no	no	0.001603683
95	8	0.011622	no	no	0.001605231
96	8	0.011622	no	no	0.001606694
97	8	0.011622	no	no	0.001608286

98	8	0.011622	no	no	0.001610007
99	8	0.011622	no	no	0.001612373
100	7	0.01435	no	no	0.001312718
101	7	0.01435	no	no	0.001315122
102	7	0.01435	no	no	0.001316934
103	7	0.01435	no	no	0.001318815
104	7	0.01435	no	no	0.001320592
105	7	0.01435	no	no	0.001322578
106	7	0.01435	no	no	0.001324286
107	7	0.01435	no	no	0.001325923
108	7	0.01435	no	no	0.001327631
109	7	0.01435	no	no	0.001331289
110	7	0.01435	no	no	0.00136892
111	7	0.01435	no	no	0.001380627
112	6	0.023244	no	no	0.000877087
113	6	0.023244	no	no	0.000913419
114	6	0.023244	no	no	0.001666193
115	4	0.038948	no	no	0.001060183
116	5	0.023244	no	no	0.000891198
117	5	0.023244	no	no	0.000760153
118	4	0.038948	no	no	0.000860314
119	4	0.038948	no	yes	0.001889327

dataend

*

*

*

-----CASSONI STRADALI-----

*

*

* ***Caratteristiche geometriche

*

	A[m2]	Ay[m2]	Az[m2]	Iy[m4]	Iz[m4]	Iyz[m4]
Iv[m4]						
CS1	0.528	0.303	0.035	0.4	8.752	0.173
CS2	0.544	0.316	0.037	0.424	9.031	0.174
CS3	0.544	0.316	0.037	0.424	9.031	0.174
CS4	0.589	0.355	0.044	0.492	9.867	0.179
CS5	0.598	0.353	0.044	0.502	9.951	0.164
CS6	0.544	0.316	0.037	0.424	9.031	0.174
CS7	0.589	0.355	0.044	0.492	9.867	0.179
CS8	0.6	0.355	0.044	0.504	10.044	0.178

*

	g[kN/m]	ye-[m]	ye+[m]	ze-[m]	ze+[m]	E[MPa]	
	G[MPa]	? (kN/m3)	? (t/m3)	Material			
	52.631	-7.342	6.877	-1.829	0.804	210000	80769.231
	99.67992424	10.16105242	9				
	53.807	-7.347	6.872	-1.797	0.836	210000	80769.231
	98.90992647	10.08256131	10				
	53.807	-7.347	6.872	-1.797	0.836	210000	80769.231
	98.90992647	10.08256131	10				
	57.336	-7.358	6.861	-1.712	0.922	210000	80769.231
	97.34465195	9.923002238	11				
	57.979	-7.335	6.884	-1.691	0.942	210000	80769.231
	96.9548495	9.883267023	12				
	53.807	-7.347	6.872	-1.797	0.836	210000	80769.231
	98.90992647	10.08256131	10				
	57.336	-7.358	6.861	-1.712	0.922	210000	80769.231
	97.34465195	9.923002238	11				
	58.16	-7.36	6.859	-1.695	0.939	210000	80769.231
	96.93333333	9.881073734	12				

*

	Iv=It	Is=Iy	It=Iz	A	As=Ay	Az=At
	r=	si=	ti=	a=	sarea=	ta=

*

	CS1	cross-section pr 1	r=0.936	si=0.4	ti=8.752
		a=0.528	sarea=0.303	ta=0.035	
	CS2	cross-section pr 2	r=1.01	si=0.424	ti=9.031
		a=0.544	sarea=0.316	ta=0.037	
	CS3	cross-section pr 2	r=1.01	si=0.424	ti=9.031
		a=0.544	sarea=0.316	ta=0.037	

```

* CS4 cross-section pr 3 r=1.196 si=0.492 ti=9.867
a=0.589 sarea=0.355 ta=0.044
* CS5 cross-section pr 4 r=1.189 si=0.502 ti=9.951
a=0.598 sarea=0.353 ta=0.044
* CS6 cross-section pr 2 r=1.01 si=0.424 ti=9.031
a=0.544 sarea=0.316 ta=0.037
* CS7 cross-section pr 3 r=1.196 si=0.492 ti=9.867
a=0.589 sarea=0.355 ta=0.044
* CS8 cross-section pr 5 r=1.196 si=0.504 ti=10.044 a=0.6
sarea=0.355 ta=0.044

```

```

* ***Materiali

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* *
* material elastic 9 E=2.1e8 density=10.1610524202267
* material elastic 10 E=2.1e8 density=10.0825613119866
* material elastic 11 E=2.1e8 density=9.92300223776369
* material elastic 12 E=2.1e8 density=9.883267023275

```

```

* *

```

```

* ***Peso

```

```

* ***CASSONI Y < 0 o Y > 0***

```

```

*

```

```

* PESI PER SINGOLO CASSONE

```

```

*

```

```

* STRUTTURA+PAVIMENTAZIONE 196431 kN

```

```

* PESI AGGIUNTIVI 80802 kN

```

```

* -----
-----

```

```

* TOTALE 277233 kN

```

```

*

```

```

* LUNGH. TOT. IMPALCATO STRADALE 3640 m

```

```

* PESO MEDIO IMPALCATO STRADALE 76.17 kN/m

```

```

*

```

```

* *****
*****

```

* ***CASSONI Y < 0 + Y > 0***

*

* PESI COMPLESSIVI CASSONI

*

* STRUTTURA+PAVIMENTAZIONE 392861 kN

* PESI AGGIUNTIVI 161605 kN

* -----

* TOTALE 554466 kN

*

* LUNGH. TOT. IMPALCATO STRADALE 7279 m

* PESO MEDIO IMPALCATO STRADALE 152.34 kN/m

*

* *****

* Rilasci

* endrelease n=1 11 12

* endrelease n=3 1 5 6

* endrelease n=4 5 6

* endrelease n=5 7 11 12

*

* *****

* *****

* ***EGROUP 5: CASSONI STRADALI (Y<0)***

* *****

* *

egroup beam name=5 displacements=small cmass=yes

enodes

entries el aux n1 n2

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edata

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*

* *

****EGROUP 6: CASSONI STRADALI (Y>0)****

egroup beam 6 displacements=small cmass=yes

enodes

entries el aux n1 n2

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502	11	3	0	no	no
503	11	3	0	no	no
504	11	3	0	no	no

*

* *****

* ***CASSONE FERROVIARIO***

* *****

* ****Caratteristiche sezioni

* *

	A[m2]	Ay[m2]	Az[m2]	Iy[m4]	Iz[m4]	Iyz[m4]
Iv[m4]						
* CF1	0.353	0.2	0.024	0.225	1.867	0
* CF2	0.353	0.2	0.024	0.225	1.867	0

*	CF3	0.42	0.268	0.024	0.493	2.031	0	0.855
*	CF4	0.42	0.268	0.024	0.493	2.031	0	0.855
*	CF5	0.383	0.23	0.024	0.385	2.01	0	0.802
*	CF6	0.408	0.255	0.024	0.459	2.024	0	0.844
*	CF7	0.526	0.358	0.039	0.605	2.714	0	1.225
*	CF8	0.423	0.255	0.04	0.464	2.242	0	0.891
*	CF9	0.36	0.056	0.114	0.145	1.105	0	0.048
*	*							
*	g [kN/m]	ye- [m]	ye+ [m]	ze- [m]	ze+ [m]	E [MPa]		
	G [MPa]	? (kN/m3)	? (t/m3)					
*	27.148	-3.75	3.75	-1.504	0.771	210000	80769.231	
	76.90651558	7.839604035						
*	27.148	-3.75	3.75	-1.504	0.771	210000	80769.231	
	76.90651558	7.839604035						
*	32.377	-3.75	3.75	-1.636	1.139	210000	80769.231	
	77.08809524	7.858113684						
*	32.377	-3.75	3.75	-1.636	1.139	210000	80769.231	
	77.08809524	7.858113684						
*	29.463	-3.75	3.75	-1.795	0.98	210000	80769.231	
	76.92689295	7.841681239						
*	31.4	-3.75	3.75	-1.686	1.089	210000	80769.231	76.96078431
	7.845136016							
*	40.51	-3.75	3.75	-1.606	1.169	210000	80769.231	77.01520913
	7.850683907							
*	32.608	-3.75	3.75	-1.705	1.07	210000	80769.231	
	77.08747045	7.858049995						
*	27.755	-3.2	3.2	-0.973	0.865	73080	80769.231	77.09722222
	7.859044059							
*	*		Iv=It	Is=Iy	It=Iz	A	As=Ay	Az=At
*	*		r=	si=	ti=	a=	sarea=	ta=
*	CF1	cross-section	pr 6	0.513	0.225	1.867	0.353	0.2 0.024
*	CF2	cross-section	pr 6	0.513	0.225	1.867	0.353	0.2 0.024
*	CF3	cross-section	pr 7	0.855	0.493	2.031	0.42	0.268 0.024
*	CF4	cross-section	pr 7	0.855	0.493	2.031	0.42	0.268 0.024
*	CF5	cross-section	pr 8	0.802	0.385	2.01	0.383	0.23 0.024
*	CF6	cross-section	pr 9	0.844	0.459	2.024	0.408	0.255 0.024
*	CF7	cross-section	pr 10	1.225	0.605	2.714	0.526	0.358 0.039
*	CF8	cross-section	pr 11	0.891	0.464	2.242	0.423	0.255 0.04
*	CF9	cross-section	pr 12	0.048	0.145	1.105	0.36	0.056 0.114

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* *****
* *Materiali*
* *****
* material elastic 13 E=2.1e8 density=7.84913353720693
* *****
* ***-----PESI-----***
*
* PESO IMPALCATO FERROVIARIO
* PESO STRUTTURA 104666 kN
* PESI AGGIUNTIVI 89208 kN
* -----
*
* 193874 kN
* *****
* Lungh. Tot. 3717 m
* PESO MEDIO 52 kN/m
* *****
* *
* *****
* ***EGROUP 7: CASSONI FERROVIARI***
* *****
*
* egroup beam 7 displacements=small material=13 cmass=yes
*
* enodes
*
* entries el aux n1 n2
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* 2 2 874 875
* 3 2 875 876
* 4 2 876 878
* 5 2 877 879
* 6 2 879 880

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edata

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* ***TRAVERSI***

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*		A [m2]	Ay [m2]	Az [m2]	Iy [m4]	Iz [m4]
*	Iyz [m4]					
*	T4a-1 13	0.776	0.776	0.776	0.352 3.139	-0.047 3.491
*	T4a-2 14	0.842	0.842	0.842	0.882 3.743	-0.056 4.625
*	T4a-3 15	0.89	0.89	0.89	1.424 4.178	-0.063 5.602

*	g [kN/m] G [MPa]	ye- [m] ? (kN/m3)	ye+ [m] ? (t/m3)	ze- [m]	ze+ [m]	E [MPa]
*	59.759 77.00902062	-3.042 7.85005307	3.042	-0.79 0.776	210000	80769.231
*	64.858 77.02850356	-3.042 7.852039099	3.042	-1.19 1.169	210000	80769.231
*	68.531 77.0011236	-3.042 7.849248073	3.042	-1.477	1.452 210000	80769.231
*	73.466 77.00838574	-3.042 7.849988353	3.042	-1.863	1.833 210000	80769.231
*	77.331 77.02290837	-3.042 7.851468743	3.042	-2.188	2.142 210000	80769.231
*	80.043 76.96442308	-3.042 7.84550694	3.042	-2.426	2.364 210000	80769.231
*	25.223 76.89939024	-1.9 1.9 7.838877701	-0.781	0.751	210000	80769.231
*	28.309 76.92663043	-1.9 1.9 7.841654479	-1.183	1.141	210000	80769.231
*	30.532 76.90680101	-1.9 1.9 7.83963313	-1.472	1.422	210000	80769.231
*	33.519 7.854757636	-1.9 1.9	-1.86	1.802	210000	80769.231 77.05517241
*	35.909 77.05793991	-1.9 1.9 7.855039747	-2.185	2.111	210000	80769.231
*	37.604 77.05737705	-1.9 1.9 7.85498237	-2.422	2.333	210000	80769.231
*	18.753 76.85655738	-1.894 7.834511455	1.894	-0.824	0.708 210000	80769.231
*	21.119 77.07664234	-1.894 7.856946212	1.894	-1.242	1.082 210000	80769.231
*	22.824 77.10810811	-1.894 7.860153732	1.894	-1.541	1.354 210000	80769.231
*	25.115 77.0398773	-1.894 7.853198502	1.894	-1.939	1.722 210000	80769.231
*	26.955 77.01428571	-1.894 7.850589777	1.894	-2.272	2.025 210000	80769.231
*	28.263 77.01089918	-1.894 7.850244565	1.894	-2.513	2.242 210000	80769.231
*	37.403 76.96090535	-3.028 7.845148354	3.028	-0.834	0.732 210000	80769.231
*	40.855 76.93973635	-3.028 7.842990453	3.028	-1.252	1.106 210000	80769.231
*	43.341 76.98223801	-3.028 7.847322937	3.028	-1.551	1.378 210000	80769.231
*	46.683 77.03465347	-3.028 7.852666001	3.028	-1.95	1.745 210000	80769.231
*	49.324 76.94851794	-3.028 7.843885621	3.028	-2.285	2.045 210000	80769.231
*	51.185 76.96992481	-3.028 7.846067769	3.028	-2.529	2.26 210000	80769.231
*	51.797 76.96433878	-3.312 7.845498347	3.312	-0.859	0.715 210000	80769.231
*	55.603 77.01246537	-3.312 7.850404218	3.312	-1.289	1.078 210000	80769.231
*	58.345 76.97229551	-3.312 7.846309431	3.312	-1.596	1.341 210000	80769.231
*	62.029 76.95905707	-3.312 7.844959946	3.312	-2.005	1.699 210000	80769.231

*	64.903	-3.312	3.312	-2.348	1.991	210000	80769.231
	76.99051008	7.848166165					
*	66.916	-3.312	3.312	-2.597	2.2	210000	80769.231
	77.00345224	7.849485448					
*	87.78	-1.5	1.5	-1.45	1.45	210000	80769.231 77 7.849133537
*							
*		r=	si=	ti=	a=	sarea=	ta=
*	cross-section pr 13			r=3.491		si=0.352	ti=3.139 a=0.776
	sarea=0.776						ta=0.776
*	cross-section pr 14			r=4.625		si=0.882	ti=3.743 a=0.842
	sarea=0.842						ta=0.842
*	cross-section pr 15			r=5.602		si=1.424	ti=4.178 a=0.89
	sarea=0.89						ta=0.89
*	cross-section pr 16			r=7.149		si=2.386	ti=4.763 a=0.954
	sarea=0.954						ta=0.954
*	cross-section pr 17			r=8.642		si=3.403	ti=5.239 a=1.004
	sarea=1.004						ta=1.004
*	cross-section pr 18			r=9.774		si=4.195	ti=5.579 a=1.04
	sarea=1.04						ta=1.04
*	cross-section pr 19			r=0.715		si=0.145	ti=0.57 a=0.328
	sarea=0.328						ta=0.328
*	cross-section pr 20			r=1.078		si=0.365	ti=0.713 a=0.368
	sarea=0.368						ta=0.368
*	cross-section pr 21			r=1.409		si=0.593	ti=0.816 a=0.397
	sarea=0.397						ta=0.397
*	cross-section pr 22			r=1.959		si=1.004	ti=0.954 a=0.435
	sarea=0.435						ta=0.435
*	cross-section pr 23			r=2.514		si=1.446	ti=1.068 a=0.466
	sarea=0.466						ta=0.466
*	cross-section pr 24			r=2.941		si=1.793	ti=1.149 a=0.488
	sarea=0.488						ta=0.488
*	cross-section pr 25			r=0.533		si=0.107	ti=0.426 a=0.244
	sarea=0.244						ta=0.244
*	cross-section pr 26			r=0.806		si=0.271	ti=0.535 a=0.274
	sarea=0.274						ta=0.274
*	cross-section pr 27			r=1.054		si=0.44	ti=0.614 a=0.296
	sarea=0.296						ta=0.296
*	cross-section pr 28			r=1.465		si=0.745	ti=0.72 a=0.326
	sarea=0.326						ta=0.326

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*   cross-section pr 29   r=1.88   si=1.074   ti=0.806   a=0.35
    sarea=0.35 ta=0.35

*   cross-section pr 30   r=2.2   si=1.332   ti=0.869   a=0.367
    sarea=0.367 ta=0.367

*   cross-section pr 31   r=2.211  si=0.223   ti=1.988   a=0.486
    sarea=0.486 ta=0.486

*   cross-section pr 32   r=2.95   si=0.555   ti=2.395   a=0.531
    sarea=0.531 ta=0.531

*   cross-section pr 33   r=3.583  si=0.894   ti=2.689   a=0.563
    sarea=0.563 ta=0.563

*   cross-section pr 34   r=4.581  si=1.498   ti=3.083   a=0.606
    sarea=0.606 ta=0.606

*   cross-section pr 35   r=5.543  si=2.138   ti=3.405   a=0.641
    sarea=0.641 ta=0.641

*   cross-section pr 36   r=6.273  si=2.637   ti=3.635   a=0.665
    sarea=0.665 ta=0.665

*   cross-section pr 37   r=3.434  si=0.31    ti=3.123   a=0.673
    sarea=0.673 ta=0.673

*   cross-section pr 38   r=4.432  si=0.771   ti=3.66    a=0.722
    sarea=0.722 ta=0.722

*   cross-section pr 39   r=5.287  si=1.24    ti=4.047   a=0.758
    sarea=0.758 ta=0.758

*   cross-section pr 40   r=6.633  si=2.066   ti=4.567   a=0.806
    sarea=0.806 ta=0.806

*   cross-section pr 41   r=7.925  si=2.935   ti=4.989   a=0.843
    sarea=0.843 ta=0.843

*   cross-section pr 42   r=8.903  si=3.611   ti=5.291   a=0.869
    sarea=0.869 ta=0.869

*   cross-section pr 43   r=2.153  si=1.505   ti=1.586   a=1.14
    sarea=0.6   ta=0.54

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*   ***---Materiali---***

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*   material   elastic   13   E=2.1e8   density=7.84913353720693

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* ***---PESI TRAVERSI---***

* ***---PESO SINGOLO TRAVERSO---***

* Pesi Lungh. Peso medio

* kN m kN/m

* T4a 3618.8 50.1 72.3

* T3 1643.9 50.1 32.8

* T1 1231.1 50.1 24.6

* T6 2298.5 50.1 45.9

* T7 4349.7 49.6 87.8

* *****

* *PESO COMPLESSIVO TRAVERSI 164954 kN

* *LUNGH. PONTE 3640 m

* *PESO MEDIO 45 kN/m

* *****

*

* *****

* *EGROUP 8: TRAVERSI*

* *****

egroup beam 8 ma=13 displacements=small cmass=yes

enodes

entries el aux n1 n2

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2 1 2012 2013

3 1 2013 2014

4 1 2014 2015

5 1 2015 2016

6 1 2016 2017

7 1 2017 2018

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1398	36	0	no	no
1399	36	0	no	no
1400	35	0	no	no
1401	34	0	no	no
1402	33	0	no	no
1403	32	0	no	no
1404	31	0	no	no
1405	43	0	no	no
1406	43	0	no	no
1407	43	0	no	no
1408	43	0	no	no
1409	43	0	no	no
1410	43	0	no	no
1411	43	0	no	no
1412	43	0	no	no
1413	43	0	no	no

1414	43	0	no	no
1415	43	0	no	no
1416	43	0	no	no
1417	43	0	no	no
1418	43	0	no	no
1419	43	0	no	no
1420	43	0	no	no
1421	43	0	no	no
1422	43	0	no	no
1423	43	0	no	no
1424	43	0	no	no
1425	43	0	no	no
1426	43	0	no	no
1427	43	0	no	no
1428	43	0	no	no
1429	43	0	no	no
1430	43	0	no	no
1431	43	0	no	no
1432	43	0	no	no
1433	43	0	no	no
1434	43	0	no	no
1435	43	0	no	no
1436	43	0	no	no

* ****

1437	13	0	yes	yes
1438	13	0	yes	yes
1439	13	0	yes	yes
1440	13	0	yes	yes

* *

* *****

```

* *Splay Saddle*****
*
* *****
*
*      A[m2] Ay[m2]      Az [m2]      Iy[m4]      Iz [m4]      Iyz [m4]
*      Iv[m4]
*      SplaySaddle1      14.311      14.311      14.311      15.265
*      19.081      0      34.346
*
*      SplaySaddle2      13.66 13.66 13.66 13.275      18.214      0
*      31.488
*
*      g [kN/m]      ye- [m]      ye+ [m]      ze- [m]      ze+ [m]      E [MPa]
*      G [MPa]
*      0      -2      2      -1.789      1.789 210000      80769.231
*
*      0      -2      2      -1.708      1.708 210000      80769.231
*
*      r=      si=      ti=      a=      sarea=      ta=
*
*      cross-section pr 107      34.346      15.265      19.081      14.311
*      14.311      14.311
*
*      cross-section pr 108      31.488      13.275      18.214      13.66 13.66
*      13.66
*
*
*      ***---Materiali---***
*
*      material      elastic      23      E=2.1e8      density=0      nu=0.3
*      alpha=0.000012
*
*
*      *****
*
*      ****EGROUP 14: SPLAY SADDLE***
*
*      *****
*
*      egroup beam 14      displacements=small material=23 cmass=yes
*
*
*
*      enodes
*
*      entries el aux n1 n2
*
*      1      2      4316 4314
*
*      2      2      4314 5
*
*      3      2      4317 4315
*
*      4      2      4315 176
*
*      5      2      4318 4320

```

```

6      2      4320  173
7      2      4319  4321
8      2      4321  344

```

```
dataend
```

```
* *
```

```
edata
```

```
entries el section endrelease print save
```

```

1      107    0      no      no
2      108    0      no      no
3      107    0      no      no
4      108    0      no      no
5      107    0      no      no
6      108    0      no      no
7      107    0      no      no
8      108    0      no      no

```

```
*
```

```
*****
*****
```

```
* *****
```

```
* ***---TORRE SICILIA---***
```

```
* *****
```

```
* *Caratteristiche sezioni
```

```
* TORRE SICILIA
```

```

*           A[m2] Ay[m2]      Az [m2]      Iy[m4]      Iz [m4]
* Iyz [m4]  Iv[m4]
* TORRE-1   44      11.47 2.494 3.331 470.937      173.52      0.002
*           274.628
* TORRE-2   45      10.544      2.18 3.016 435.382      158.788      0.002
*           244.02
* TORRE-3   46      9.328 1.709 2.421 403.607      139.507      0.002
*           218.912
* TORRE-4   47      8.629 1.712 1.944 382.677      124.014      0.002
*           184.026
* TORRE-5   48      7.886 1.435 1.626 358.925      112.022      0.002
*           158.643
* TORRE-6   49      7.591 1.354 1.709 327.004      112.519      0.002
*           158.966
* TORRE-7   50      8.326 1.351 2.148 348.165      131.256      0.002
*           198.147

```

*	TORRE-8	51	9.222	1.627	2.545	381.158	143.083	0.002
	218.072							
*	TORRE-9	52	8.332	1.55	2.029	342.356	127.77	0.002
	182.427							
*	TORRE-10	53	7.706	1.314	1.789	330.791	114.884	0.002
	162.49							
*	TORRE-11	54	7.206	1.274	1.552	305.407	106.356	0.002
	141.644							
*	TORRE-12	55	7.593	1.273	1.791	316.395	116.462	0.002
	162.596							
*	TORRE-13	56	8.134	1.312	2.069	338.076	127.586	0.002
	187.272							
*	TORRE-14	57	8.086	1.393	1.867	353.049	121.588	0.002
	182.987							
*	TORRE-15	58	8.358	1.432	2.025	364.879	126.812	0.002
	195.458							
*	TORRE-16	59	8.357	1.432	2.025	368.183	125.55	0.002
	193.565							
*	TORRE-17	60	8.169	1.393	2.024	360.717	120.046	0.002
	177.764							
*	TORRE-18	61	7.9	1.352	1.869	332.865	122.312	0.002
	180.008							
*	TORRE-19	62	7.441	1.232	1.754	297.845	117.888	0.002
	160.624							
*	TORRE-20	63	7.02	1.154	1.635	275.978	108.532	0.002
	133.778							
*	TORRE-21	64	7.301	1.392	1.753	286.276	110.914	0.002
	130.533							

*

*	g [kN/m] G [MPa]	ye- [m] ? (kN/m3)	ye+ [m] ? (t/m3)	ze- [m]	ze+ [m]	E [MPa]
*	883.157 7.848840258	-6 6	-10 10	210000	80769.231	76.99712293
*	811.89 7.849152873	-6 6	-10 10	210000	80769.231	77.00018968
*	718.254 7.849111681	-6 6	-10 10	210000	80769.231	76.99978559
*	664.463 7.849487936	-6 6	-10 10	210000	80769.231	77.00347665
*	607.247 7.849456695	-6 6	-10 10	210000	80769.231	77.00317017
*	584.524 7.849361824	-6 6	-10 10	210000	80769.231	77.00223949
*	641.106 7.84918251	-6 6	-10 10	210000	80769.231	77.00048042
*	710.129 7.849520415	-6 6	-10 10	210000	80769.231	77.00379527
*	641.566 7.849158006	-6 6	-10 10	210000	80769.231	77.00024004
*	593.351 7.848988027	-6 6	-10 10	210000	80769.231	76.99857254
*	554.826 7.848624278	-6 6	-10 10	210000	80769.231	76.99500416
*	584.661 7.849133537	-6 6	-10 10	210000	80769.231	77
*	626.283 7.848694911	-6 6	-10 10	210000	80769.231	76.99569707

*	622.641	-6	6	-10	10	210000	80769.231	77.00234974
	7.849373062							
*	643.561	-6	6	-10	10	210000	80769.231	76.99940177
	7.849072556							
*	643.496	-6	6	-10	10	210000	80769.231	77.00083762
	7.849218922							
*	628.991	-6	6	-10	10	210000	80769.231	76.99730689
	7.84885901							
*	608.273	-6	6	-10	10	210000	80769.231	76.99658228
	7.848785146							
*	572.942	-6	6	-10	10	210000	80769.231	76.99798414
	7.848928047							
*	540.51	-6	6	-10	10	210000	80769.231	76.9957265
	7.84869791							
*	562.154	-6	6	-10	10	210000	80769.231	76.99684975
	7.84881241							

*

	r=	si=	ti=	a=	sarea=	ta=
*	cross-section pr 44		r=274.628	si=173.52	ti=470.937	a=11.47
	sarea=3.331	ta=2.494				
*	cross-section pr 45		r=244.02	si=158.788	ti=435.382	a=10.544
	sarea=3.016	ta=2.18				
*	cross-section pr 46		r=218.912	si=139.507	ti=403.607	a=9.328
	sarea=2.421	ta=1.709				
*	cross-section pr 47		r=184.026	si=124.014	ti=382.677	a=8.629
	sarea=1.944	ta=1.712				
*	cross-section pr 48		r=158.643	si=112.022	ti=358.925	a=7.886
	sarea=1.626	ta=1.435				
*	cross-section pr 49		r=158.966	si=112.519	ti=327.004	a=7.591
	sarea=1.709	ta=1.354				
*	cross-section pr 50		r=198.147	si=131.256	ti=348.165	a=8.326
	sarea=2.148	ta=1.351				
*	cross-section pr 51		r=218.072	si=143.083	ti=381.158	a=9.222
	sarea=2.545	ta=1.627				
*	cross-section pr 52		r=182.427	si=127.77	ti=342.356	a=8.332
	sarea=2.029	ta=1.55				
*	cross-section pr 53		r=162.49	si=114.884	ti=330.791	a=7.706
	sarea=1.789	ta=1.314				
*	cross-section pr 54		r=141.644	si=106.356	ti=305.407	a=7.206
	sarea=1.552	ta=1.274				
*	cross-section pr 55		r=162.596	si=116.462	ti=316.395	a=7.593
	sarea=1.791	ta=1.273				
*	cross-section pr 56		r=187.272	si=127.586	ti=338.076	a=8.134
	sarea=2.069	ta=1.312				

* cross-section pr 57 r=182.987 si=121.588 ti=353.049 a=8.086
sarea=1.867 ta=1.393

* cross-section pr 58 r=195.458 si=126.812 ti=364.879 a=8.358
sarea=2.025 ta=1.432

* cross-section pr 59 r=193.565 si=125.55 ti=368.183 a=8.357
sarea=2.025 ta=1.432

* cross-section pr 60 r=177.764 si=120.046 ti=360.717 a=8.169
sarea=2.024 ta=1.393

* cross-section pr 61 r=180.008 si=122.312 ti=332.865 a=7.9
sarea=1.869 ta=1.352

* cross-section pr 62 r=160.624 si=117.888 ti=297.845 a=7.441
sarea=1.754 ta=1.232

* cross-section pr 63 r=133.778 si=108.532 ti=275.978 a=7.02
sarea=1.635 ta=1.154

* cross-section pr 64 r=130.533 si=110.914 ti=286.276 a=7.301
sarea=1.753 ta=1.392

*

* TRAVERSI TORRI

	A [m2]	Ay [m2]	Az [m2]	Iy [m4]	Iz [m4]
* Iyz [m4] Iv [m4]					
* TrsvTorri165	2.191	0.411	0.834	26.06 133.87	0 41.034
* TrsvTorri266	2.084	0.411	0.728	24.365 98.535	0 34.65
* TrsvTorri367	1.948	0.411	0.811	22.537 74.99	0 35
* TrsvTorri468	1.82	0.408	0.685	20.526 51.041	0 27.873
* TrsvTorri569	1.871	0.403	0.736	21.26 40.487	0 26.466
* TrsvTorri670	1.811	0.4	0.679	20.341 33.511	0 23.49
* TrsvTorri871	2.385	0.493	0.947	28.24 120.8	0 45.028
* TrsvTorri972	2.272	0.493	0.833	26.439 90.653	0 38.334
* TrsvTorri10	73	2.117	0.493	0.898 24.316	69.986 0
* TrsvTorri11	74	1.993	0.488	0.779 22.408	50.396 0
* TrsvTorri12	75	2.052	0.483	0.838 23.264	42.596 0
* TrsvTorri13	76	2.002	0.48	0.79 22.496	37.126 0
* TrsvTorri14	77	2.208	0.411	0.852 26.29	89.17 0 37.317
* TrsvTorri15	78	2.114	0.411	0.758 24.802	68.588 0
* TrsvTorri16	79	1.908	0.49	0.691 21.062	56.111 0

*	TrasvTorri17	80	1.832	0.485	0.621	19.911	43.862	0
	25.928							
*	TrasvTorri18	81	1.837	0.402	0.705	20.754	36.595	0
	24.833							
*	TrasvTorri19	82	1.808	0.4	0.677	20.306	33.337	0
	23.386							
*	TrasvTorri20	83	1.907	0.49	0.691	21.05	56.09	0
							30.014	

*

*	g[kN/m]	ye-[m]	ye+[m]	ze-[m]	ze+[m]	E[MPa]		
	G[MPa]	? (kN/m3)	? (t/m3)					
*	168.673	-10.436	10.471	-4	4	210000	80769.231	
	76.984481977	7.847551679						
*	160.474	-9.118	9.127	-4	4	210000	80769.231	
	77.002879087	7.849427021						
*	150.026	-8.133	8.133	-4	4	210000	80769.231	
	77.015400417	7.850703406						
*	140.132	-6.878	6.878	-4	4	210000	80769.231	
	76.9956044	7.848685463						
*	144.043	-6.155	6.155	-4	4	210000	80769.231	
	76.987172637	7.847825957						
*	139.414	-5.686	5.686	-4	4	210000	80769.231	
	76.981778027	7.847276047						
*	183.656	-9.48	9.514	-4	4	210000	80769.231	77.00461216
	7.849603686							
*	174.933	-8.36	8.369	-4	4	210000	80769.231	76.99515845
	7.848640005							
*	162.98	-7.513	7.513	-4	4	210000	80769.231	
	76.986301377	7.847737143						
*	153.492	-6.524	6.524	-4	4	210000	80769.231	
	77.015554447	7.850719107						
*	157.994	-6.015	6.015	-4	4	210000	80769.231	
	76.995126717	7.848636769						
*	154.128	-5.676	5.676	-4	4	210000	80769.231	
	76.987012997	7.847809683						
*	170.009	-8.527	8.555	-4	4	210000	80769.231	
	76.996829717	7.848810368						
*	162.8	-7.603	7.61	-4	4	210000	80769.231	77.01040681
	7.850194374							
*	146.933	-6.938	6.938	-4	4	210000	80769.231	
	77.008909857	7.850041779						
*	141.065	-6.237	6.237	-4	4	210000	80769.231	
	77.000545857	7.84918918						
*	141.486	-5.898	5.898	-4	4	210000	80769.231	
	77.020141547	7.851186701						
*	139.237	-5.668	5.668	-4	4	210000	80769.231	
	77.011615047	7.850317538						
*	146.865	-6.938	6.938	-4	4	210000	80769.231	
	77.013633987	7.850523341						

*

*	r=	si=	ti=	a=	sarea=	ta=
*	cross-section pr	65	r=41.034	si=133.87	ti=26.06	a=2.191
	sarea=0.834	ta=0.411				

```

*   cross-section pr 66   r=34.65   si=98.535   ti=24.365   a=2.084
   sarea=0.728 ta=0.411

*   cross-section pr 67   r=35    si=74.99    ti=22.537   a=1.948
   sarea=0.811 ta=0.411

*   cross-section pr 68   r=27.873  si=51.041   ti=20.526   a=1.82
   sarea=0.685 ta=0.408

*   cross-section pr 69   r=26.466  si=40.487   ti=21.26    a=1.871
   sarea=0.736 ta=0.403

*   cross-section pr 70   r=23.49   si=33.511   ti=20.341   a=1.811
   sarea=0.679 ta=0.4

*   cross-section pr 71   r=45.028  si=120.8    ti=28.24    a=2.385
   sarea=0.947 ta=0.493

*   cross-section pr 72   r=38.334  si=90.653   ti=26.439   a=2.272
   sarea=0.833 ta=0.493

*   cross-section pr 73   r=37.713  si=69.986   ti=24.316   a=2.117
   sarea=0.898 ta=0.493

*   cross-section pr 74   r=31.011  si=50.396   ti=22.408   a=1.993
   sarea=0.779 ta=0.488

*   cross-section pr 75   r=30.167  si=42.596   ti=23.264   a=2.052
   sarea=0.838 ta=0.483

*   cross-section pr 76   r=27.655  si=37.126   ti=22.496   a=2.002
   sarea=0.79  ta=0.48

*   cross-section pr 77   r=37.317  si=89.17    ti=26.29    a=2.208
   sarea=0.852 ta=0.411

*   cross-section pr 78   r=32    si=68.588   ti=24.802   a=2.114
   sarea=0.758 ta=0.411

*   cross-section pr 79   r=30.014  si=56.111   ti=21.062   a=1.908
   sarea=0.691 ta=0.49

*   cross-section pr 80   r=25.928  si=43.862   ti=19.911   a=1.832
   sarea=0.621 ta=0.485

*   cross-section pr 81   r=24.833  si=36.595   ti=20.754   a=1.837
   sarea=0.705 ta=0.402

*   cross-section pr 82   r=23.386  si=33.337   ti=20.306   a=1.808
   sarea=0.677 ta=0.4

*   cross-section pr 83   r=30.014  si=56.09    ti=21.05    a=1.907
   sarea=0.691 ta=0.49

*   *****

*   ***---Materiali---***

*   material   elastic   13   E=2.1e8   density=7.84913353720693

```

```

* *****
*
* ***---Pesi---***
*
*
* Peso sezione resistente      500162      kN
* Pesi aggiuntivi  115630      kN
*
* -----
*
* TOTALE      615792      kN
*
*
* H torre      381      m
*
* Peso medio 1616 kN/m
*
* *****
* *****
* *****
*
* *****
*
* ***EGROUP 9: TORRE SICILIA***
*
* *****
*
* egroup beam 9 displacements=large material=13 initialstrain=element
cmass=yes
*
* enodes
*
* entries el aux n1 n2
*
* 1      1      3522 3523
*
* 2      1      3523 3524
*
* 3      1      3524 3525
*
* 4      1      3525 3526
*
* 5      1      3526 3527
*
* 6      1      3527 3528
*
* 7      1      3528 3529
*
* 8      1      3529 3530
*
* 9      1      3530 3531

```

10	1	3531	3532
11	1	3532	3533
12	1	3533	3534
13	1	3534	3535
14	1	3535	3536
15	1	3536	3537
16	1	3537	3538
17	1	3538	3539
18	1	3539	3540
19	1	3540	3541
20	1	3541	3542
21	1	3542	3543
22	1	3543	3544
23	1	3544	3545
24	1	3545	3546
25	1	3546	3547
26	1	3547	3548
27	1	3548	3549
28	1	3549	3550
29	1	3550	3551
30	1	3551	3552
31	1	3552	3553
32	1	3553	3554
33	1	3554	3555
34	1	3555	3556
35	1	3556	3557
36	1	3557	3558
37	1	3558	3559
38	1	3559	3560
39	1	3560	3561

40	1	3561	3562
41	1	3562	3563
42	1	3563	3564
43	1	3564	3565
44	1	3565	3566
45	1	3566	3567
46	1	3567	3568
47	1	3568	3569
48	1	3569	3570
49	1	3570	3571
50	1	3571	3572
51	1	3572	3573
52	1	3573	3574
53	1	3574	3575
54	1	3575	3576
55	1	3576	3577
56	1	3577	3578
57	1	3578	3579
58	1	3579	3580
59	1	3580	3581
60	1	3581	3582
61	1	3582	3583
62	1	3583	3584
63	1	3584	3585
64	1	3585	3586
65	1	3586	3587
66	1	3587	3588
67	1	3588	3589
68	1	3589	3590
69	1	3590	3591

70	1	3591	3592
71	1	3592	3593
72	1	3593	3594
73	1	3594	3595
74	1	3595	3596
75	1	3596	3597
76	1	3597	3598
77	1	3598	3599
78	1	3599	3600
79	1	3600	3601
80	1	3601	3602
81	1	3602	3603
82	1	3603	3604
83	1	3604	3605
84	1	3605	3606
85	1	3606	3607
86	1	3607	3608
87	1	3608	3609
88	1	3609	3610
89	1	3610	3611
90	1	3611	3612
91	1	3612	3613
92	1	3613	3614
93	1	3614	3615
94	1	3615	3616
95	1	3616	3617
96	1	3617	3618
97	1	3618	3619
98	1	3619	3620
99	1	3620	3621

100	1	3621	3622
101	1	3622	3623
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edata

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*	TORRE-29	91	7.944	1.312	2.028	333.389	121.984	0.002
	173.946							
*	TORRE-30	92	7.593	1.273	1.791	316.395	116.462	0.002
	162.596							
*	TORRE-31	93	7.285	1.274	1.632	302.471	110.406	0.002
	148.928							
*	TORRE-32	94	7.057	1.274	1.552	293.651	104.631	0.002
	134.845							
*	TORRE-33	95	7.4	1.233	1.713	301.545	115.258	0.002
	156.355							
*	TORRE-34	96	7.514	1.273	1.712	311.274	116.169	0.002
	162.596							
*	TORRE-35	97	7.672	1.273	1.87	321.515	116.754	0.002
	162.596							
*	TORRE-36	98	7.706	1.314	1.789	330.791	114.884	0.002
	162.49							
*	TORRE-37	99	7.665	1.354	1.708	337.532	110.883	0.002
	155.311							
*	TORRE-38	100	7.511	1.354	1.629	329.912	108.463	0.002
	149.608							
*	TORRE-39	101	7.206	1.274	1.552	305.407	106.356	0.002
	141.644							
*	TORRE-40	102	6.899	1.194	1.475	280.79	104.235	0.002
	131.501							
*	TORRE-41	103	6.596	1.114	1.476	258.7	100.264	0.002 113.934
*	TORRE-42	104	6.874	1.274	1.595	270.591	102.173	0.002
	116.146							

*	g [kN/m] G [MPa]	ye- [m] ? (kN/m3)	ye+ [m] ? (t/m3)	ze- [m]	ze+ [m]	E [MPa]		
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*	758.303 7.849205994	-6	6	-10	10	210000	80769.231	77.0007108
*	701.258 7.849346209	-6	6	-10	10	210000	80769.231	77.00208631
*	644.511 7.849389293	-6	6	-10	10	210000	80769.231	77.00250896
*	587.585 7.849106821	-6	6	-10	10	210000	80769.231	76.99973791
*	557.844 7.848838068	-6	6	-10	10	210000	80769.231	76.99710145
*	587.672 7.849240389	-6	6	-10	10	210000	80769.231	77.00104822
*	611.686 7.849107873	-6	6	-10	10	210000	80769.231	76.99974824
*	584.661 7.849133537	-6	6	-10	10	210000	80769.231	77
*	560.98 7.849623282	-6	6	-10	10	210000	80769.231	77.00480439
*	543.365 7.848786863	-6	6	-10	10	210000	80769.231	76.99659912
*	569.837 7.849643221	-6	6	-10	10	210000	80769.231	77.005
*	578.582 7.849187802	-6	6	-10	10	210000	80769.231	77.00053234

*	590.74	-6	6	-10	10	210000	80769.231	76.99947862
	7.84908039							
*	593.351	-6	6	-10	10	210000	80769.231	76.99857254
	7.848988027							
*	590.188	-6	6	-10	10	210000	80769.231	76.99778213
	7.848907454							
*	578.354	-6	6	-10	10	210000	80769.231	77.00093197
	7.849228539							
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*	507.915	-6	6	-10	10	210000	80769.231	77.00348696
	7.849488987							
*	529.303	-6	6	-10	10	210000	80769.231	77.00072738
	7.849207684							

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	sarea=3.056	ta=2.417				
*	cross-section pr 85		r=224.363	si=148.722	ti=406.411	a=9.848
	sarea=2.701	ta=2.023				
*	cross-section pr 86		r=208.971	si=138.366	ti=382.317	a=9.107
	sarea=2.503	ta=1.628				
*	cross-section pr 87		r=183.746	si=125.601	ti=353.795	a=8.37
	sarea=2.147	ta=1.471				
*	cross-section pr 88		r=157.472	si=112.76	ti=328.274	a=7.631
	sarea=1.789	ta=1.314				
*	cross-section pr 89		r=143.074	si=106.406	ti=309.261	a=7.245
	sarea=1.551	ta=1.314				
*	cross-section pr 90		r=164.489	si=116.512	ti=320.239	a=7.632
	sarea=1.79	ta=1.313				
*	cross-section pr 91		r=173.946	si=121.984	ti=333.389	a=7.944
	sarea=2.028	ta=1.312				
*	cross-section pr 92		r=162.596	si=116.462	ti=316.395	a=7.593
	sarea=1.791	ta=1.273				
*	cross-section pr 93		r=148.928	si=110.406	ti=302.471	a=7.285
	sarea=1.632	ta=1.274				
*	cross-section pr 94		r=134.845	si=104.631	ti=293.651	a=7.057
	sarea=1.552	ta=1.274				
*	cross-section pr 95		r=156.355	si=115.258	ti=301.545	a=7.4
	sarea=1.713	ta=1.233				
*	cross-section pr 96		r=162.596	si=116.169	ti=311.274	a=7.514
	sarea=1.712	ta=1.273				

* cross-section pr 97 r=162.596 si=116.754 ti=321.515 a=7.672
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* cross-section pr 98 r=162.49 si=114.884 ti=330.791 a=7.706
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* cross-section pr 99 r=155.311 si=110.883 ti=337.532 a=7.665
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* cross-section pr 100 r=149.608 si=108.463 ti=329.912 a=7.511
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* cross-section pr 101 r=141.644 si=106.356 ti=305.407 a=7.206
sarea=1.552 ta=1.274

* cross-section pr 102 r=131.501 si=104.235 ti=280.79 a=6.899
sarea=1.475 ta=1.194

* cross-section pr 103 r=113.934 si=100.264 ti=258.7 a=6.596
sarea=1.476 ta=1.114

* cross-section pr 104 r=116.146 si=102.173 ti=270.591 a=6.874
sarea=1.595 ta=1.274

*

* TRAVERSI TORRI

	A[m2]	Ay[m2]	Az[m2]	Iy[m4]	Iz[m4]
Iyz[m4]	Iv[m4]				
TrasvTorri165	2.191	0.411	0.834	26.06	133.87
					0
					41.034
TrasvTorri266	2.084	0.411	0.728	24.365	98.535
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					34.65
TrasvTorri367	1.948	0.411	0.811	22.537	74.99
					0
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TrasvTorri468	1.82	0.408	0.685	20.526	51.041
					0
27.873					
TrasvTorri569	1.871	0.403	0.736	21.26	40.487
					0
					26.466
TrasvTorri670	1.811	0.4	0.679	20.341	33.511
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					23.49
TrasvTorri871	2.385	0.493	0.947	28.24	120.8
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					45.028
TrasvTorri972	2.272	0.493	0.833	26.439	90.653
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38.334					
TrasvTorri10	73	2.117	0.493	0.898	24.316
					69.986
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37.713					
TrasvTorri11	74	1.993	0.488	0.779	22.408
					50.396
					0
31.011					
TrasvTorri12	75	2.052	0.483	0.838	23.264
					42.596
					0
30.167					
TrasvTorri13	76	2.002	0.48	0.79	22.496
					37.126
					0
27.655					
TrasvTorri14	77	2.208	0.411	0.852	26.29
					89.17
					0
					37.317
TrasvTorri15	78	2.114	0.411	0.758	24.802
					68.588
					0
32					
TrasvTorri16	79	1.908	0.49	0.691	21.062
					56.111
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30.014					

*	TrasvTorri17	80	1.832	0.485	0.621	19.911	43.862	0
	25.928							
*	TrasvTorri18	81	1.837	0.402	0.705	20.754	36.595	0
	24.833							
*	TrasvTorri19	82	1.808	0.4	0.677	20.306	33.337	0
	23.386							
*	TrasvTorri20	83	1.907	0.49	0.691	21.05	56.09	0
							30.014	
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*	157.994	-6.015	6.015	-4	4	210000	80769.231	
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*	170.009	-8.527	8.555	-4	4	210000	80769.231	
	76.996829717	7.848810368						
*	162.8	-7.603	7.61	-4	4	210000	80769.231	77.01040681
	7.850194374							
*	146.933	-6.938	6.938	-4	4	210000	80769.231	
	77.008909857	7.850041779						
*	141.065	-6.237	6.237	-4	4	210000	80769.231	
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*		r=	si=	ti=	a=	sarea=	ta=	
*	cross-section pr 65	r=41.034	si=133.87	ti=26.06	a=2.191			
	sarea=0.834	ta=0.411						
*	cross-section pr 66	r=34.65	si=98.535	ti=24.365	a=2.084			
	sarea=0.728	ta=0.411						

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*   cross-section pr 67   r=35  si=74.99   ti=22.537  a=1.948
    sarea=0.811 ta=0.411

*   cross-section pr 68   r=27.873   si=51.041  ti=20.526  a=1.82
    sarea=0.685 ta=0.408

*   cross-section pr 69   r=26.466   si=40.487  ti=21.26   a=1.871
    sarea=0.736 ta=0.403

*   cross-section pr 70   r=23.49    si=33.511  ti=20.341  a=1.811
    sarea=0.679 ta=0.4

*   cross-section pr 71   r=45.028   si=120.8   ti=28.24   a=2.385
    sarea=0.947 ta=0.493

*   cross-section pr 72   r=38.334   si=90.653  ti=26.439  a=2.272
    sarea=0.833 ta=0.493

*   cross-section pr 73   r=37.713   si=69.986  ti=24.316  a=2.117
    sarea=0.898 ta=0.493

*   cross-section pr 74   r=31.011   si=50.396  ti=22.408  a=1.993
    sarea=0.779 ta=0.488

*   cross-section pr 75   r=30.167   si=42.596  ti=23.264  a=2.052
    sarea=0.838 ta=0.483

*   cross-section pr 76   r=27.655   si=37.126  ti=22.496  a=2.002
    sarea=0.79  ta=0.48

*   cross-section pr 77   r=37.317   si=89.17   ti=26.29   a=2.208
    sarea=0.852 ta=0.411

*   cross-section pr 78   r=32  si=68.588  ti=24.802  a=2.114
    sarea=0.758 ta=0.411

*   cross-section pr 79   r=30.014   si=56.111  ti=21.062  a=1.908
    sarea=0.691 ta=0.49

*   cross-section pr 80   r=25.928   si=43.862  ti=19.911  a=1.832
    sarea=0.621 ta=0.485

*   cross-section pr 81   r=24.833   si=36.595  ti=20.754  a=1.837
    sarea=0.705 ta=0.402

*   cross-section pr 82   r=23.386   si=33.337  ti=20.306  a=1.808
    sarea=0.677 ta=0.4

*   cross-section pr 83   r=30.014   si=56.09   ti=21.05   a=1.907
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*   ***---Materiali---***

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* Pesi aggiuntivi          115630      kN
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* -----
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* TOTALE          585205      kN
*
*
* H torre          381      m
*
* Peso medio 1536      kN/m
*
* *****
* *****
*
* *****
*
* *EGROUP 10: TORRE CALABRIA*
*
* *****
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initialstrain=element cmass=yes
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* 4      1      3801 3802
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157	94	no	no	-0.000717225
158	94	no	no	-0.000717225
159	94	no	no	-0.000717225
160	94	no	no	-0.000717225
161	95	no	no	-0.000717225
162	95	no	no	-0.000717225
163	95	no	no	-0.000717225
164	95	no	no	-0.000717225
165	96	no	no	-0.000717225
166	96	no	no	-0.000717225
167	96	no	no	-0.000717225
168	96	no	no	-0.000717225
169	97	no	no	-0.000717225
170	97	no	no	-0.000717225
171	97	no	no	-0.000717225
172	97	no	no	-0.000717225
173	97	no	no	-0.000717225
174	97	no	no	-0.000717225
175	97	no	no	-0.000717225
176	97	no	no	-0.000717225
177	98	no	no	-0.000717225
178	98	no	no	-0.000717225

179	98	yes	yes	-0.000717225
180	98	no	no	-0.000717225
181	99	no	no	-0.000717225
182	99	no	no	-0.000717225
183	99	no	no	-0.000717225
184	99	no	no	-0.000717225
185	100	no	no	-0.000717225
186	100	no	no	-0.000717225
187	100	no	no	-0.000717225
188	100	no	no	-0.000717225
189	101	no	no	-0.000717225
190	101	no	no	-0.000717225
191	101	no	no	-0.000717225
192	101	no	no	-0.000717225
193	102	no	no	-0.000717225
194	102	no	no	-0.000717225
195	102	no	no	-0.000717225
196	102	no	no	-0.000717225
197	103	no	no	-0.000717225
198	103	no	no	-0.000717225
199	103	no	no	-0.000717225
200	103	no	no	-0.000717225
201	104	no	no	-0.000717225
202	104	no	no	-0.000717225
203	104	no	no	-0.000717225
204	104	no	no	-0.000717225
205	104	no	no	-0.000717225
206	104	no	no	-0.000717225
207	104	no	no	-0.000717225
208	104	no	no	-0.000717225

209	104	no	no	-0.000717225
210	104	no	no	-0.000717225
211	104	no	no	-0.000717225
212	104	no	no	-0.000717225
213	65	no	no	0
214	66	no	no	0
215	67	no	no	0
216	68	no	no	0
217	69	no	no	0
218	70	no	no	0
219	70	no	no	0
220	69	no	no	0
221	68	no	no	0
222	67	no	no	0
223	66	no	no	0
224	65	no	no	0
225	71	no	no	0
226	72	no	no	0
227	73	no	no	0
228	74	no	no	0
229	75	no	no	0
230	76	no	no	0
231	76	no	no	0
232	75	no	no	0
233	74	no	no	0
234	73	no	no	0
235	72	no	no	0
236	71	no	no	0
237	77	no	no	0
238	78	no	no	0

```

239  79  no  no  0
240  80  no  no  0
241  81  no  no  0
242  82  no  no  0
243  82  no  no  0
244  81  no  no  0
245  80  no  no  0
246  83  no  no  0
247  78  no  no  0
248  77  no  no  0

```

```

*
*****
*****

```

```

* ***---CROCIERE---***

```

```

* *****

```

```

* *Caratteristiche sezione

```

```

*      A[m2] Ay[m2]      Az [m2]      Iy[m4]      Iz [m4]      Iyz [m4]
* Iv[m4]
* Crociera  0.094 0.041 0.053 0.025 0.017 0      0.03

```

```

*

```

```

*      g[kN/m]      ye-[m]      ye+[m]      ze-[m]      ze+[m]      E [MPa]
* G[MPa]      ? (kN/m3)      ? (t/m3)
* 7.232 -0.52 0.52  -0.67 0.67  210000      80769.231  76.93617021
* 7.84263

```

```

*

```

```

*      r=      si=      ti=      a=      sarea=      ta=
* cross-section pr 105 r=0.03      si=0.017      ti=0.025      a=0.094
* sarea=0.053 ta=0.041

```

```

*

```

```

* ***Materiale***

```

```

* material elastic 13 E=2.1e8 density=7.84913353720693

```

```

* ***

```

```

* ***Pesi***

```

```

* *Peso complessivo (2 crociere) 1929 kN

```

```

*      *Rilasci
*      endrelease n=1   11   12
*      endrelease n=2   4    5    6    10   11   12
*
*      *****
*      *****
*      *****
*
*      ***EGROUP 11: CROCIERE***
*      *****
*
*      egroup truss 11 displacements=small material=13 cmass=yes
*
*      enodes
*
*      entries el n1 n2
*
*      1      4065 4067
*      2      4069 4067
*      3      4066 4067
*      4      4070 4067
*      5      4074 4073
*      6      4071 4073
*      7      4075 4073
*      8      4072 4073
*      9      4067 921
*      10     4073 1379
*
*      dataend
*
*
*      edata
*
*      entries el material area print save
*
*      1      13      0.094 no    no
*      2      13      0.094 no    no
*      3      13      0.094 no    no
*      4      13      0.094 no    no

```

```

5      13      0.094 no    no
6      13      0.094 no    no
7      13      0.094 no    no
8      13      0.094 no    no
9      14      0.094 no    no
10     14      0.094 no    no

*      egroup beam 11 displacements=small material=13 cmass=yes

*      enodes

*      entries el aux n1 n2
*      1      3      4065 4067
*      2      3      4069 4067
*      3      3      4066 4067
*      4      3      4070 4067
*      5      3      4074 4073
*      6      3      4071 4073
*      7      3      4075 4073
*      8      3      4072 4073
*      9      1      4067 921
*      10     1      4073 1379

*      dataend

*      *

*      edata

*      entries el material section endrelease print save
*      1      13      105 1      yes  yes
*      2      13      105 1      yes  yes
*      3      13      105 1      yes  yes
*      4      13      105 0      yes  yes
*      5      13      105 1      yes  yes
*      6      13      105 1      yes  yes

```

```
* 7 13 105 1 yes yes
* 8 13 105 0 yes yes
* 9 14 106 2 yes yes
* 10 14 106 2 yes yes
```

```
*
*****
*****
```

```
* ***---EGROUP 16: LINK TORRI---***
```

```
* *****
```

```
* A=0.094
```

```
* *Peso complessivo (2 link) 452.95404
```

```
*
```

```
* ***Link Crociere
```

```
egroup truss 16 cmass=yes
```

```
* *
```

```
enodes
```

```
entries el n1 n2
```

```
1 4067 4068
```

```
2 4073 4332
```

```
@
```

```
* *
```

```
edata
```

```
entries el material area print save
```

```
1 19 1 no yes
```

```
2 19 1 no yes
```

```
*****
```

```
***** EGROUP 17: Struttura terminale Sicilia
```

```
* *
```

```
egroup beam 17 displacements=small material=13 cmass=yes
```

```
* *
```


enodes

entries el aux n1 n2

1	2	4333	4334
2	2	4335	4336
3	2	4336	4337
4	2	4337	4338
5	2	4338	4339
6	2	4339	4340
7	2	4340	4341
8	2	4341	4342
9	2	4342	4343
10	2	4343	4344
11	2	4344	4345
12	2	4345	4346
13	2	4346	4347
14	2	4347	4348
15	2	4348	4349
16	2	4349	4350
17	2	4350	4351
18	2	4351	4352
19	2	4352	4353
20	2	4353	4354
21	2	4354	4355
22	2	4355	4356
23	2	4356	4357
24	2	4357	4358
25	2	4358	4359
26	2	4359	4360
27	2	4360	4361
28	2	4361	4362

29	2	4362	4363
30	2	4363	4364
31	2	4364	4365
32	2	4365	4366
33	2	4366	4367
34	2	4367	4368
35	2	4368	4370
36	2	4369	4371
37	2	4371	4372
38	2	4372	4373
39	2	4373	4374
40	2	4375	4377
41	2	4376	4378
42	2	4378	4379
43	2	4379	4380
44	2	4380	4381
45	2	4381	4382
46	2	4382	4383
47	2	4383	4384
48	2	4384	4385
49	2	4385	4386
50	2	4386	4387
51	2	4387	4388
52	2	4388	4389
53	2	4389	4390
54	2	4390	4391
55	2	4391	4392
56	2	4392	4393
57	2	4393	4394
58	2	4394	4395

59	2	4395	4396
60	2	4396	4397
61	2	4397	4398
62	2	4398	4399
63	2	4399	4400
64	2	4400	4401
65	2	4401	4402
66	2	4402	4403
67	2	4403	4404
68	2	4404	4405
69	2	4405	4406
70	2	4407	4408
71	2	4408	4409
72	2	4409	4410
73	2	4410	4411
74	2	4411	4412
75	2	4413	4414
76	2	4414	4415
77	2	4415	4416
78	2	4416	4417
79	2	4418	4420
80	2	4419	4421
81	2	4421	4422
82	2	4422	4423
83	2	4423	4424
84	2	4424	4425
85	2	4425	4426
86	2	4426	4427
87	2	4427	4428
88	2	4428	4429

89	2	4429	4430
90	2	4430	4431
91	2	4431	4432
92	2	4432	4433
93	2	4433	4434
94	2	4434	4435
95	2	4435	4436
96	2	4436	4437
97	2	4437	4438
98	2	4438	4439
99	2	4439	4440
100	2	4440	4441
101	2	4441	4443
102	2	4442	4444
103	2	4444	4445
104	2	4445	4446
105	2	4446	4448
106	2	4447	4449
107	2	4449	4450
108	2	4450	4452
109	2	4451	4453
110	2	4453	4454
111	2	4454	4455
112	2	4455	4456
113	2	4456	4458
114	2	4457	4459
115	2	4459	4460
116	2	4460	4461
117	2	4461	4462
118	2	4464	4466

119	2	4466	4467
120	2	4467	4468
121	2	4468	4469
122	2	4469	4470
123	2	4470	4471
124	2	4471	4472
125	2	4472	4473
126	2	4473	4474
127	2	4474	4475
128	2	4475	4476
129	2	4476	4477
130	2	4477	4478
131	2	4478	4479
132	2	4479	4480
133	2	4480	4481
134	2	4481	4482
135	2	4482	4483
136	2	4483	4484
137	2	4484	4485
138	2	4485	4486
139	2	4486	4487
140	2	4487	4488
141	2	4488	4489
142	2	4489	4490
143	2	4490	4492
144	2	4491	4493
145	2	4493	4494
146	2	4494	4496
147	2	4495	4497
148	2	4497	4498

149	2	4498	4499
150	2	4499	4500
151	2	4500	4501
152	2	4502	4503
153	2	4503	4504
154	2	4504	4505
155	2	4505	4506
156	2	4509	4510
157	2	4510	4511
158	2	4511	4512
159	2	4512	4513
160	2	4513	4514
161	2	4514	4515
162	2	4515	4516
163	2	4516	4517
164	2	4517	4518
165	2	4518	4519
166	2	4519	4520
167	2	4520	4521
168	2	4521	4522
169	2	4522	4523
170	2	4523	4524
171	2	4524	4525
172	2	4525	4526
173	2	4526	4527
174	2	4527	4528
175	2	4528	4529
176	2	4529	4530
177	2	4530	4531
178	2	4531	4532

179	2	4532	4533
180	2	4533	4534
181	2	4534	4536
182	2	4535	4537
183	2	4537	4538
184	2	4538	4540
185	2	4539	4541
186	2	4541	4542
187	2	4542	4543
188	2	4543	4544
189	2	4544	4545
190	2	4546	4547
191	2	4547	4548
192	2	4548	4549
193	2	4549	4550
194	2	4550	4551
195	2	4552	4554
196	2	4553	4555
197	2	4555	4556
198	2	4556	4557
199	2	4557	4558
200	2	4558	4559
201	2	4559	4560
202	2	4560	4561
203	2	4561	4562
204	2	4562	4563
205	2	4563	4564
206	2	4564	4565
207	2	4565	4566
208	2	4566	4567

209	2	4567	4568
210	2	4568	4569
211	2	4569	4570
212	2	4570	4571
213	2	4571	4572
214	2	4572	4573
215	2	4573	4574
216	2	4574	4575
217	2	4575	4576
218	2	4576	4577
219	2	4577	4578
220	2	4578	4579
221	2	4579	4580
222	2	4581	4582
223	2	4582	4583
224	2	4583	4584
225	2	4585	4586
226	2	4586	4587
227	2	4587	4588
228	2	4588	4589
229	2	4589	4591
230	2	4590	4592
231	2	4592	4593
232	2	4593	4594
233	2	4594	4595
234	2	4596	4598
235	2	4597	4599
236	2	4599	4600
237	2	4600	4601
238	2	4601	4602

239	2	4602	4603
240	2	4603	4604
241	2	4604	4605
242	2	4605	4606
243	2	4606	4607
244	2	4607	4608
245	2	4608	4609
246	2	4609	4610
247	2	4610	4611
248	2	4611	4612
249	2	4612	4613
250	2	4613	4614
251	2	4614	4615
252	2	4615	4617
253	2	4616	4618
254	2	4618	4619
255	2	4619	4620
256	2	4620	4622
257	2	4621	4623
258	2	4623	4624
259	2	4624	4625
260	2	4625	4626
261	2	4627	4628
262	2	4628	4629
263	2	4629	4631
264	2	4630	4632
265	2	4632	4633
266	2	4633	4634
267	2	4634	4635
268	2	4635	4636

269	2	4637	4638
270	2	4638	4639
271	2	4639	4640
272	2	4640	4641
273	2	4669	4670
274	2	4670	4671
275	2	4671	4672
276	2	4672	4673
277	2	4673	4674
278	2	4674	4675
279	2	4675	4676
280	2	4676	4677
281	2	4677	4678
282	2	4678	4679
283	2	4679	4680
284	2	4680	4681
285	2	4681	4682
286	2	4682	4683
287	2	4683	4684
288	2	4684	4685
289	2	4685	4686
290	2	4686	4687
291	2	4644	4645
292	2	4645	4646
293	2	4646	4647
294	2	4647	4648
295	2	4658	4659
296	2	4659	4660
297	2	4660	4661
298	2	4661	4662

299	2	4649	4650
300	2	4650	4651
301	2	4651	4652
302	2	4652	4653
303	2	4653	4654
304	2	4654	4655
305	2	4655	4656
306	2	4656	4657
307	2	4663	4664
308	2	4664	4665
309	2	4665	4666
310	2	4666	4667
311	2	4667	4668
312	2	4688	4689
313	2	4690	4691
314	2	4691	4692
315	2	4692	4693
316	2	4693	4694
317	2	4694	4695
318	2	4695	4696
319	2	4696	4697
320	2	4697	4698
321	2	4698	4699
322	2	4699	4700
323	2	4700	4701
324	2	4701	4702
325	2	4702	4703
326	2	4703	4704
327	2	4704	4705
328	2	4705	4706

329	2	4706	4707
330	2	4707	4708
331	2	4709	4710
332	2	4710	4711
333	2	4711	4712
334	2	4712	4713
335	2	4714	4715
336	2	4715	4716
337	2	4716	4717
338	2	4717	4719
339	2	4718	4720
340	2	4720	4721
341	2	4721	4722
342	2	4723	4724
343	2	4724	4725
344	2	4725	4726
345	2	4726	4727
346	2	4727	4729
347	2	4728	4730
348	2	4730	4731
349	2	4731	4732
350	2	4732	4733
351	2	4734	4735
352	2	4736	4737
353	2	4737	4738
354	2	4738	4739
355	2	4739	4740
356	2	4740	4741
357	2	4741	4742
358	2	4742	4743

359	2	4743	4744
360	2	4744	4745
361	2	4745	4746
362	2	4746	4747
363	2	4747	4748
364	2	4748	4749
365	2	4749	4750
366	2	4750	4751
367	2	4751	4752
368	2	4752	4753
369	2	4753	4754
370	2	4754	4755
371	2	4755	4756
372	2	4756	4757
373	2	4757	4758
374	2	4758	4759
375	2	4759	4760
376	2	4760	4761
377	2	4761	4763
378	2	4762	4764
379	2	4764	4765
380	2	4765	4767
381	2	4766	4768
382	2	4768	4769
383	2	4769	4770
384	2	4770	4771
385	2	4771	4772
386	2	4773	4774
387	2	4774	4775
388	2	4775	4776

389	2	4776	4777
390	2	4816	4818
391	2	4818	4819
392	2	4819	4820
393	2	4820	4821
394	2	4821	4822
395	2	4779	4781
396	2	4781	4782
397	2	4782	4783
398	2	4783	4784
399	2	4784	4785
400	2	4785	4786
401	2	4786	4787
402	2	4787	4788
403	2	4788	4789
404	2	4789	4790
405	2	4790	4791
406	2	4811	4812
407	2	4791	4792
408	2	4812	4813
409	2	4792	4793
410	2	4813	4814
411	2	4814	4815
412	2	4793	4794
413	2	4815	4817
414	2	4807	4808
415	2	4794	4795
416	2	4808	4809
417	2	4795	4796
418	2	4809	4810

419	2	4796	4797
420	2	4797	4798
421	2	4798	4799
422	2	4799	4800
423	2	4800	4801
424	2	4801	4802
425	2	4802	4803
426	2	4803	4804
427	2	4804	4805
428	2	4805	4806
429	2	4825	4826
430	2	4826	4827
431	2	4827	4828
432	2	4828	4829
433	2	4829	4830
434	2	4830	4831
435	2	4831	4832
436	2	4832	4833
437	2	4833	4834
438	2	4834	4835
439	2	4835	4836
440	2	4836	4837
441	2	4837	4838
442	2	4838	4839
443	2	4839	4840
444	2	4840	4841
445	2	4841	4842
446	2	4842	4843
447	2	4843	4844
448	2	4844	4845

449	2	4845	4846
450	2	4846	4847
451	2	4847	4848
452	2	4848	4849
453	2	4849	4850
454	2	4850	4851
455	2	4852	4853
456	2	4853	4854
457	2	4854	4855
458	2	4856	4857
459	2	4857	4858
460	2	4858	4859
461	2	4859	4860
462	2	4860	4862
463	2	4861	4863
464	2	4863	4864
465	2	4864	4865
466	2	4865	4866
467	2	4867	4868
468	2	4869	4870
469	2	4870	4871
470	2	4871	4872
471	2	4872	4873
472	2	4873	4874
473	2	4874	4875
474	2	4875	4876
475	2	4876	4877
476	2	4877	4878
477	2	4878	4879
478	2	4879	4880

479	2	4880	4881
480	2	4881	4882
481	2	4882	4883
482	2	4883	4884
483	2	4884	4885
484	2	4885	4886
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1200	149	0	no	no
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1202	149	0	no	no
1203	149	0	no	no
1204	149	0	no	no
1205	149	0	no	no
1206	149	0	no	no

* *****

* *EGROUP 18: portali struttura terminale Sicilia

egroup beam 18 displacements=small material=15 cmass=yes

* *

enodes

entries el aux n1 n2

1 1 5650 5651

2 1 5653 5654

3 1 5658 5659

4 1 5662 5663

5 1 5651 5652

6	1	5668	5652
7	1	5655	5668
8	1	5654	5655
9	1	5659	5660
10	1	5660	5661
11	1	5669	5661
12	1	5665	5669
13	1	5663	5664
14	1	5664	5665

dataend

* ***

edata

entries el section endrelease print save

1	154	0	no	no
2	154	0	no	no
3	154	0	no	no
4	154	0	no	no
5	155	0	no	no
6	156	0	no	no
7	156	0	no	no
8	155	0	no	no
9	155	0	no	no
10	155	0	no	no
11	156	0	no	no
12	156	0	no	no
13	155	0	no	no
14	155	0	no	no

* *

* *EGROUP 19: appoggi Sicilia

egroup beam 19 displacements=small material=14 cmass=yes

*

*

enodes

entries el aux n1 n2

1 1 5652 4515

2 1 5668 4675

3 1 5655 4786

4 1 5333 874

5 1 5418 877

6 1 5661 4539

7 1 5669 4652

8 1 5665 4811

9 1 4549 1959

10 1 4666 891

11 1 4820 1967

dataend

*

edata

entries el section endrelease print save

1 165 11 no no

2 165 12 no no

3 165 11 no no

4 165 10 no no

5 165 10 no no

6 165 11 no no

7 165 12 no no

8 165 11 no no

9 165 9 no no

10 165 10 no no

```
11    165    9    no    no
*
*****
*
*EGROUP 20: STRUTTURA TERMINALE CALABRIA
egroup beam 20 displacements=small material=18 cmass=yes
*
*
enodes
entries el aux n1 n2
1     2     5670 5671
2     2     5671 5672
3     2     5672 5673
4     2     5673 5674
5     2     5675 5676
6     2     5676 5678
7     2     5678 5679
8     2     5679 5680
9     2     5680 5681
10    2     5681 5682
11    2     5682 5683
12    2     5683 5684
13    2     5684 5685
14    2     5685 5686
15    2     5686 5687
16    2     5687 5688
17    2     5688 5689
18    2     5689 5690
19    2     5690 5691
20    2     5691 5692
21    2     5692 5693
22    2     5693 5694
```

23	2	5694	5695
24	2	5695	5696
25	2	5696	5697
26	2	5697	5698
27	2	5698	5699
28	2	5699	5700
29	2	5700	5701
30	2	5701	5703
31	2	5702	5704
32	2	5705	5706
33	2	5706	5707
34	2	5707	5708
35	2	5708	5710
36	2	5709	5711
37	2	5711	5712
38	2	5712	5713
39	2	5713	5714
40	2	5714	5716
41	2	5715	5717
42	2	5717	5718
43	2	5718	5719
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68	2	5746	5747
69	2	5747	5748
70	2	5748	5749
71	2	5749	5750
72	2	5751	5752
73	2	5752	5753
74	2	5753	5754
75	2	5755	5756
76	2	5756	5757
77	2	5757	5758
78	2	5758	5759
79	2	5760	5761
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81	2	5762	5763
82	2	5763	5764

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86	2	5767	5768
87	2	5768	5769
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89	2	5770	5771
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91	2	5772	5773
92	2	5773	5774
93	2	5775	5776
94	2	5777	5778
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108	2	5794	5795
109	2	5795	5796
110	2	5796	5797
111	2	5797	5798
112	2	5798	5799

113	2	5799	5800
114	2	5800	5801
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165	2	5859	5861
166	2	5860	5862
167	2	5862	5863
168	2	5863	5865
169	2	5864	5866
170	2	5866	5867
171	2	5867	5868
172	2	5868	5869

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175	2	5871	5872
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183	2	5879	5880
184	2	5880	5881
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edata

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708	152	0	no	no
709	152	0	no	no
710	152	0	no	no
711	152	0	no	no
712	152	0	no	no
713	152	0	no	no
714	152	0	no	no
715	152	0	no	no
716	153	0	no	no
717	153	0	no	no
718	152	0	no	no

719	152	0	no	no
720	152	0	no	no
721	152	0	no	no
722	152	0	no	no
723	152	0	no	no
724	152	0	no	no
725	152	0	no	no
726	152	0	no	no
727	152	0	no	no
728	152	0	no	no
729	152	0	no	no
730	152	0	no	no
731	152	0	no	no
732	153	0	no	no
733	153	0	no	no
734	152	0	no	no
735	152	0	no	no
736	152	0	no	no
737	152	0	no	no
738	152	0	no	no
739	152	0	no	no
740	152	0	no	no
741	152	0	no	no
742	152	0	no	no
743	152	0	no	no
744	152	0	no	no
745	152	0	no	no
746	152	0	no	no
747	152	0	no	no
748	153	0	no	no

749	153	0	no	no
750	152	0	no	no
751	152	0	no	no
752	152	0	no	no
753	152	0	no	no
754	152	0	no	no
755	152	0	no	no
756	152	0	no	no
757	152	0	no	no
758	152	0	no	no
759	152	0	no	no
760	152	0	no	no
761	152	0	no	no
762	150	0	no	no
763	150	0	no	no
764	150	0	no	no
765	150	0	no	no
766	150	0	no	no
767	150	0	no	no
768	152	0	no	no
769	152	0	no	no
770	152	0	no	no
771	152	0	no	no
772	152	0	no	no
773	152	0	no	no
774	152	0	no	no
775	152	0	no	no
776	152	0	no	no
777	152	0	no	no
778	152	0	no	no

779	152	0	no	no
780	152	0	no	no
781	152	0	no	no
782	152	0	no	no
783	152	0	no	no
784	152	0	no	no
785	152	0	no	no
786	152	0	no	no
787	152	0	no	no
788	152	0	no	no
789	152	0	no	no
790	152	0	no	no
791	152	0	no	no
792	152	0	no	no
793	152	0	no	no
794	152	0	no	no
795	152	0	no	no
796	152	0	no	no
797	152	0	no	no
798	152	0	no	no
799	152	0	no	no
800	152	0	no	no
801	152	0	no	no
802	152	0	no	no
803	152	0	no	no
804	152	0	no	no
805	152	0	no	no
806	152	0	no	no
807	152	0	no	no
808	152	0	no	no

809	152	0	no	no
810	152	0	no	no
811	152	0	no	no
812	152	0	no	no
813	152	0	no	no
814	152	0	no	no
815	152	0	no	no
816	152	0	no	no
817	152	0	no	no
818	152	0	no	no
819	152	0	no	no
820	152	0	no	no
821	151	0	no	no
822	151	0	no	no
823	151	0	no	no
824	151	0	no	no
825	151	0	no	no
826	151	0	no	no
827	151	0	no	no
828	151	0	no	no
829	151	0	no	no
830	151	0	no	no
831	151	0	no	no
832	151	0	no	no
833	151	0	no	no
834	151	0	no	no
835	151	0	no	no
836	151	0	no	no
837	152	0	no	no
838	152	0	no	no

839	152	0	no	no
840	152	0	no	no
841	152	0	no	no
842	152	0	no	no
843	152	0	no	no
844	152	0	no	no
845	152	0	no	no
846	152	0	no	no
847	152	0	no	no
848	152	0	no	no
849	152	0	no	no
850	152	0	no	no
851	152	0	no	no
852	152	0	no	no
853	152	0	no	no
854	152	0	no	no
855	152	0	no	no
856	152	0	no	no
857	152	0	no	no
858	152	0	no	no
859	152	0	no	no
860	152	0	no	no
861	152	0	no	no
862	152	0	no	no
863	152	0	no	no
864	152	0	no	no
865	152	0	no	no
866	152	0	no	no
867	152	0	no	no
868	152	0	no	no

869	152	0	no	no
870	152	0	no	no
871	152	0	no	no
872	152	0	no	no
873	152	0	no	no
874	152	0	no	no
875	152	0	no	no
876	152	0	no	no
877	152	0	no	no
878	152	0	no	no
879	152	0	no	no
880	152	0	no	no
881	152	0	no	no
882	152	0	no	no
883	152	0	no	no
884	152	0	no	no
885	152	0	no	no
886	152	0	no	no
887	152	0	no	no
888	152	0	no	no
889	152	0	no	no
890	152	0	no	no
891	152	0	no	no
892	152	0	no	no
893	152	0	no	no
894	152	0	no	no
895	152	0	no	no
896	152	0	no	no
897	152	0	no	no
898	152	0	no	no

899	152	0	no	no
900	152	0	no	no
901	152	0	no	no
902	152	0	no	no
903	152	0	no	no
904	150	0	no	no
905	150	0	no	no
906	152	0	no	no
907	152	0	no	no
908	150	0	no	no
909	150	0	no	no
910	152	0	no	no
911	152	0	no	no
912	150	0	no	no
913	150	0	no	no
914	152	0	no	no
915	152	0	no	no
916	152	0	no	no
917	149	0	no	no
918	149	0	no	no
919	149	0	no	no
920	149	0	no	no
921	149	0	no	no
922	149	0	no	no
923	149	0	no	no
924	149	0	no	no
925	149	0	no	no
926	149	0	no	no
927	149	0	no	no
928	149	0	no	no

929	149	0	no	no
930	149	0	no	no
931	149	0	no	no
932	149	0	no	no
933	149	0	no	no
934	149	0	no	no
935	149	0	no	no
936	149	0	no	no
937	149	0	no	no
938	149	0	no	no
939	149	0	no	no
940	149	0	no	no
941	149	0	no	no
942	149	0	no	no
943	149	0	no	no
944	149	0	no	no
945	149	0	no	no
946	149	0	no	no
947	149	0	no	no
948	149	0	no	no
*	*		no	
*	*EGROUP 21: STRUTTURA TERMINALE CALABRIA PORTALE			
	egroup beam 21 displacements=small material=15 cmass=yes			
*	*			
	enodes			
	entries el aux n1 n2			
1	1	6730	6731	
2	1	6737	6738	
3	1	6742	6743	

4	1	6747	6748
5	1	6731	6732
6	1	6732	6733
7	1	6736	6733
8	1	6740	6736
9	1	6738	6739
10	1	6739	6740
11	1	6743	6741
12	1	6744	6741
13	1	6749	6744
14	1	6748	6749

dataend

* ***

edata

entries el section endrelease print save

1	154	0	no	no
2	154	0	no	no
3	154	0	no	no
4	154	0	no	no
5	155	0	no	no
6	155	0	no	no
7	157	0	no	no
8	157	0	no	no
9	155	0	no	no
10	155	0	no	no
11	155	0	no	no
12	157	0	no	no
13	157	0	no	no
14	155	0	no	no

* *EGROUP 22: STRUTTURA TERMINALE CALABRIA APPOGGI

egroup beam 22 displacements=small material=14 cmass=yes

* *

enodes

entries el aux n1 n2

1	1	5815	3497
2	1	5926	3501
3	1	6038	3505
4	1	6733	5824
5	1	6736	5935
6	1	6740	6048
7	1	6444	1422
8	1	6529	1426
9	1	6741	5841
10	1	6744	5953
11	1	6749	6064

dataend

* ***

edata

entries el section endrelease print save

1	165	9	no	no
2	165	10	no	no
3	165	9	no	no
4	165	11	no	no
5	165	12	no	no
6	165	11	no	no
7	165	10	no	no
8	165	10	no	no
9	165	11	no	no
10	165	12	no	no

11 165 11 no no

* *EGROUP 23 : PANTANO

egroup beam 23 displacements=small material=23 cmass=yes

* *

enodes

entries el aux n1 n2

1 2 6750 6751

2 2 6751 6752

3 2 6752 6753

4 2 6753 6754

5 2 6754 6755

6 2 6755 6756

7 2 6756 6757

8 2 6757 6758

9 2 6758 6759

10 2 6759 6760

11 2 6760 6761

12 2 6761 6762

13 2 6762 6763

14 2 6763 6764

15 2 6764 6765

16 2 6765 6766

17 2 6766 6767

18 2 6767 6768

19 2 6769 6770

20 2 6770 6771

21 2 6771 6772

22 2 6773 6774

23 2 6774 6775

24	2	6775	6776
25	2	6777	6778
26	2	6778	6779
27	2	6779	6780
28	2	6781	6782
29	2	6782	6783
30	2	6783	6784
31	2	6785	6786
32	2	6786	6787
33	2	6787	6788
34	2	6789	6790
35	2	6790	6791
36	2	6791	6792
37	2	6793	6794
38	2	6794	6795
39	2	6795	6796
40	2	6796	6797
41	2	6797	6798
42	2	6798	6799
43	2	6799	6800
44	2	6800	6801
45	2	6801	6802
46	2	6802	6803
47	2	6803	6804
48	2	6804	6805
49	2	6805	6806
50	2	6806	6807
51	2	6807	6808
52	2	6808	6809
53	2	6809	6810

54	2	6810	6811
55	1	6812	6753
56	1	6813	6812
57	1	6814	6813
58	1	6796	6814
59	1	6815	6756
60	1	6816	6815
61	1	6817	6816
62	1	6799	6817
63	1	6818	6759
64	1	6819	6818
65	1	6820	6819
66	1	6802	6820
67	1	6821	6762
68	1	6822	6821
69	1	6823	6822
70	1	6805	6823
71	1	6824	6765
72	1	6825	6824
73	1	6826	6825
74	1	6808	6826
75	1	6830	6833
76	1	6828	6832
77	1	6842	6845
78	1	6840	6844
79	1	6854	6857
80	1	6852	6856
81	1	6866	6869
82	1	6864	6868
83	1	6878	6881

84	1	6876	6880
85	1	6831	6887
86	1	6887	6836
87	1	6843	6888
88	1	6888	6848
89	1	6855	6889
90	1	6889	6860
91	1	6867	6890
92	1	6890	6872
93	1	6879	6891
94	1	6891	6884
95	1	6827	6829
96	1	6839	6841
97	1	6851	6853
98	1	6863	6865
99	1	6875	6877

dataend

* ***

edata

entries el material section endrelease print save

1	23	158	0	no	no
2	23	158	0	no	no
3	23	158	0	no	no
4	23	158	0	no	no
5	23	158	0	no	no
6	23	158	0	no	no
7	23	158	0	no	no
8	23	158	0	no	no
9	23	158	0	no	no
10	23	158	0	no	no

11	23	158	0	no	no
12	23	158	0	no	no
13	23	158	0	no	no
14	23	158	0	no	no
15	23	158	0	no	no
16	23	158	0	no	no
17	23	158	0	no	no
18	23	158	7	no	no
19	23	159	0	no	no
20	23	159	0	no	no
21	23	159	7	no	no
22	23	159	6	no	no
23	23	159	0	no	no
24	23	159	7	no	no
25	23	159	6	no	no
26	23	159	0	no	no
27	23	159	7	no	no
28	23	159	6	no	no
29	23	159	0	no	no
30	23	159	7	no	no
31	23	159	6	no	no
32	23	159	0	no	no
33	23	159	7	no	no
34	23	159	6	no	no
35	23	159	0	no	no
36	23	159	7	no	no
37	23	158	0	no	no
38	23	158	0	no	no
39	23	158	0	no	no
40	23	158	0	no	no

41	23	158	0	no	no
42	23	158	0	no	no
43	23	158	0	no	no
44	23	158	0	no	no
45	23	158	0	no	no
46	23	158	0	no	no
47	23	158	0	no	no
48	23	158	0	no	no
49	23	158	0	no	no
50	23	158	0	no	no
51	23	158	0	no	no
52	23	158	0	no	no
53	23	158	0	no	no
54	23	158	7	no	no
55	23	160	0	no	no
56	23	160	0	no	no
57	23	160	0	no	no
58	23	160	0	no	no
59	23	160	0	no	no
60	23	160	0	no	no
61	23	160	0	no	no
62	23	160	0	no	no
63	23	160	0	no	no
64	23	160	0	no	no
65	23	160	0	no	no
66	23	160	0	no	no
67	23	160	0	no	no
68	23	160	0	no	no
69	23	160	0	no	no
70	23	160	0	no	no

71	23	160	0	no	no
72	23	160	0	no	no
73	23	160	0	no	no
74	23	160	0	no	no
75	15	161	0	no	no
76	15	161	0	no	no
77	15	161	0	no	no
78	15	161	0	no	no
79	15	161	0	no	no
80	15	161	0	no	no
81	15	161	0	no	no
82	15	161	0	no	no
83	15	161	0	no	no
84	15	161	0	no	no
85	15	162	0	no	no
86	15	163	0	no	no
87	15	162	0	no	no
88	15	163	0	no	no
89	15	162	0	no	no
90	15	163	0	no	no
91	15	162	0	no	no
92	15	163	0	no	no
93	15	162	0	no	no
94	15	163	0	no	no
95	15	164	0	no	no
96	15	164	0	no	no
97	15	164	0	no	no
98	15	164	0	no	no
99	15	164	0	no	no

* *****

```
* *EGROUP 24: Pantano appoggi
egroup beam 24 material=14 displacements=small cmass=yes
```

```
* *
```

```
enodes
```

```
entries el aux n1 n2
```

1	1	6892	6893
2	1	6894	6895
3	1	6768	6893
4	1	6895	6768
5	1	6896	6792
6	1	6897	6898
7	1	6899	6900
8	1	6811	6898
9	1	6900	6811
10	1	6834	6812
11	1	6836	6834
12	1	6838	6836
13	1	6838	6814
14	1	6835	6772
15	2	6835	6836
16	2	6836	6837
17	1	6837	6773
18	1	6846	6815
19	1	6848	6846
20	1	6850	6848
21	1	6850	6817
22	1	6847	6776
23	2	6847	6848
24	2	6848	6849

25	1	6849	6777
26	1	6858	6818
27	1	6860	6858
28	1	6862	6860
29	1	6862	6820
30	1	6859	6780
31	2	6859	6860
32	2	6860	6861
33	1	6861	6781
34	1	6870	6821
35	1	6872	6870
36	1	6874	6872
37	1	6874	6823
38	1	6871	6784
39	2	6871	6872
40	2	6872	6873
41	1	6873	6785
42	1	6882	6824
43	1	6884	6882
44	1	6886	6884
45	1	6886	6826
46	1	6883	6788
47	2	6883	6884
48	2	6884	6885
49	1	6885	6789

dataend

edata

entries el section endrelease print save

1	165	0	no	no
2	165	0	no	no

3	165	0	no	no
4	165	0	no	no
5	165	0	no	no
6	165	0	no	no
7	165	0	no	no
8	165	0	no	no
9	165	0	no	no
10	165	0	no	no
11	165	0	no	no
12	165	0	no	no
13	165	0	no	no
14	165	0	no	no
15	165	0	no	no
16	165	0	no	no
17	165	0	no	no
18	165	0	no	no
19	165	0	no	no
20	165	0	no	no
21	165	0	no	no
22	165	0	no	no
23	165	0	no	no
24	165	0	no	no
25	165	0	no	no
26	165	0	no	no
27	165	0	no	no
28	165	0	no	no
29	165	0	no	no
30	165	0	no	no
31	165	0	no	no
32	165	0	no	no

33	165	0	no	no
34	165	0	no	no
35	165	0	no	no
36	165	0	no	no
37	165	0	no	no
38	165	0	no	no
39	165	0	no	no
40	165	0	no	no
41	165	0	no	no
42	165	0	no	no
43	165	0	no	no
44	165	0	no	no
45	165	0	no	no
46	165	0	no	no
47	165	0	no	no
48	165	0	no	no
49	165	0	no	no

* *****

* *****

* EGROUP 25: BUFFERS

egroup truss 25 disp=small cmass=yes

enodes

entries e1 n1 n2

1 6901 3539

2 6902 3655

3 3818 6903

4 3934 6904

5 6905 5661

6 6906 5665

7 6733 6907


```

8      6740  6908

@

edata

el material area print save

1      16    1    yes  yes
2      16    1    yes  yes
3      16    1    yes  yes
4      16    1    yes  yes
5      17    1    yes  yes
6      17    1    yes  yes
7      17    1    yes  yes
8      17    1    yes  yes

*      *****

*      egroup 12: FONDAZIONE TORRE LATO SICILIA

*      *

      egroup beam 12 displacements=large cmass=yes initialstrain=element

*      *

enodes

entries el aux n1 n2

1      1      3514 3517
2      1      3517 3518
3      1      3518 3519
4      1      3519 3521
5      1      3630 3633
6      1      3633 3634
7      1      3634 3635
8      1      3635 3637
9      1      3777 3772
10     1      3772 3765

```

11 1 3765 3761

12 1 3761 3756

dataend

edata

entries el material section print save epsin

1 21 109 no no -0.0004706687

2 21 109 no no -0.0004706687

3 21 109 no no -0.0004706687

4 21 109 no no -0.0004706687

5 21 109 no no -0.0004706687

6 21 109 no no -0.0004706687

7 21 109 no no -0.0004706687

8 21 109 no no -0.0004706687

9 22 110 no no 0

10 22 110 no no 0

11 22 110 no no 0

12 22 110 no no 0

* *****

* *GRUPPO 13: FONDAZIONE TORRE LATO CALABRIA

* *

egroup beam 13 displacements=large cmass=yes initialstrain=element

* *

enodes

entries el aux n1 n2

1 1 3790 3793

3 1 3793 3794

4 1 3794 3795

5 1 3795 3797

6 1 3906 3909

```
8 1 3909 3910
9 1 3910 3911
10 1 3911 3913
11 1 4025 4024
12 1 4024 4023
13 1 4023 4022
14 1 4022 4021
```

```
dataend
```

```
edata
```

```
entries el material section print save epsin
```

```
1 21 109 no no -0.00046957506
3 21 109 no no -0.00046957506
4 21 109 no no -0.00046957506
5 21 109 no no -0.00046957506
6 21 109 no no -0.00046957506
8 21 109 no no -0.00046957506
9 21 109 no no -0.00046957506
10 21 109 no no -0.00046957506
11 22 110 no no 0
12 22 110 no no 0
13 22 110 no no 0
14 22 110 no no 0
```

```
* *****
```

```
* ***MOLLE BASE TORRE
```

```
* *****
```

```
* *****
```

```
egroup general 15 r=forces
```

```
* ***
```

```
* *Molle torre Sicilia
```

```
matrix stiffness 1 12
```

1	5.50E+07	0	0	0	-5.70E+08	0	-5.50E+07	0
0	0	5.70E+08	0					
2	5.50E+07	0	-5.70E+08	0	0	0	-5.50E+07	0
5.70E+08	0	0						
3	5.30E+07	0	0	0	0	0	-5.30E+07	0
0								
4	3.30E+10	0	0	0	0	0	-3.30E+10	0
5	3.30E+10	0	0	0	0	0	-3.30E+10	0
6	5.50E+10	0	0	0	0	0	-5.50E+10	
7	5.50E+07	0	0	0	-5.70E+08	0		
8	5.50E+07	0	-5.70E+08	0	0			
9	5.30E+07	0	0	0				
10	3.30E+10	0	0					
11	3.30E+10	0						
12	5.50E+10							

* *Molle torre Calabria

matrix stiffness 2 12

1	2.70E+08	0	0	0	-1.00E+09	0	-2.70E+08	0
0	0	1.00E+09	0					
2	2.70E+08	0	-1.00E+09	0	0	0	-2.70E+08	0
1.00E+09	0	0						
3	1.30E+08	0	0	0	0	0	-1.30E+08	0
0								
4	1.10E+11	0	0	0	0	0	-1.10E+11	0
5	1.10E+11	0	0	0	0	0	-1.10E+11	0
6	2.20E+11	0	0	0	0	0	-2.20E+11	
7	2.70E+08	0	0	0	-1.00E+09	0		
8	2.70E+08	0	-1.00E+09	0	0			
9	1.30E+08	0	0	0				
10	1.10E+11	0	0					
11	1.10E+11	0						
12	2.20E+11							

* *Molle blocco ancoraggio Sicilia

matrix stiffness 3 12

1	7.80E+07	0	0	0	8.80E+08	0	-7.80E+07	0
0	0	-8.80E+08	0					
2	7.60E+07	0	8.60E+08	0	0	0	-7.60E+07	0
-8.60E+08	0	0						
3	9.80E+07	0	0	0	0	0	-9.80E+07	0
0								
4	1.40E+11	0	0	0	0	0	-1.40E+11	0
5	1.00E+11	0	0	0	0	0	-1.00E+11	0
6	3.60E+11	0	0	0	0	0	-3.60E+11	
7	7.80E+07	0	0	0	8.80E+08	0		
8	7.60E+07	0	8.60E+08	0	0			
9	9.80E+07	0	0	0				
10	1.40E+11	0	0					
11	1.00E+11	0						
12	3.60E+11							

* Molle blocco ancoraggio Calabria

matrix stiffness 4 12

1	5.20E+08	0	0	0	3.50E+09	0	-5.20E+08	0
0	0	-3.50E+09	0					
2	5.30E+08	0	3.50E+09	0	0	0	-5.30E+08	0
-3.50E+09	0	0						
3	6.30E+08	0	0	0	0	0	-6.30E+08	0
0								
4	9.50E+11	0	0	0	0	0	-9.50E+11	0
5	6.60E+11	0	0	0	0	0	-6.60E+11	0
6	2.80E+12	0	0	0	0	0	-2.80E+12	
7	5.20E+08	0	0	0	3.50E+09	0		
8	5.30E+08	0	3.50E+09	0	0			
9	6.30E+08	0	0	0				
10	9.50E+11	0	0					
11	6.60E+11	0						
12	2.80E+12							

* Molle struttura terminale Sicilia

matrix stiffness 5 12

1	4.80E+07	0	0	0	-1.60E+08	0	-4.80E+07	0
0	0	1.60E+08	0					
2	5.00E+07	0	-1.70E+08	0	0	0	-5.00E+07	0
1.70E+08	0	0						
3	5.80E+07	0	0	0	0	0	-5.80E+07	0
0								
4	1.70E+11	0	0	0	0	0	-1.70E+11	0
5	1.30E+11	0	0	0	0	0	-1.30E+11	0
6	2.50E+11	0	0	0	0	0	-2.50E+11	
7	4.80E+07	0	0	0	-1.60E+08	0		
8	5.00E+07	0	-1.70E+08	0	0			
9	5.80E+07	0	0	0				
10	1.70E+11	0	0					
11	1.30E+11	0						
12	2.50E+11							

* *Molle struttura terminale Calabria

matrix stiffness 6 12

1	2.10E+08	0	0	0	9.10E+08	0	-2.10E+08	0
0	0	-9.10E+08	0					
2	2.20E+08	0	9.60E+08	0	0	0	-2.20E+08	0
-9.60E+08	0	0						
3	3.50E+08	0	0	0	0	0	-3.50E+08	0
0								
4	5.70E+11	0	0	0	0	0	-5.70E+11	0
5	4.40E+11	0	0	0	0	0	-4.40E+11	0
6	9.60E+11	0	0	0	0	0	-9.60E+11	
7	2.10E+08	0	0	0	9.10E+08	0		
8	2.20E+08	0	9.60E+08	0	0			
9	3.50E+08	0	0	0				
10	5.70E+11	0	0					
11	4.40E+11	0						
12	9.60E+11							

* *Dashpot torre Sicilia

matrix damping 7 12

1	4.10E+06	0	0	0	-4.30E+07	0	-4.10E+06	0
0	0	4.30E+07	0					
2	4.10E+06	0	-4.30E+07	0	0	0	-4.10E+06	0
4.30E+07	0	0						
3	4.00E+06	0	0	0	0	0	-4.00E+06	0
0								
4	2.50E+09	0	0	0	0	0	-2.50E+09	0
5	2.50E+09	0	0	0	0	0	-2.50E+09	0
6	4.10E+09	0	0	0	0	0	-4.10E+09	
7	4.10E+06	0	0	0	-4.30E+07	0		
8	4.10E+06	0	-4.30E+07	0	0			
9	4.00E+06	0	0	0				
10	2.50E+09	0	0					
11	2.50E+09	0						
12	4.10E+09							

* *Dashpot torre Calabria

matrix damping 8 12

1	5.50E+06	0	0	0	-2.10E+07	0	-5.50E+06	0
0	0	2.10E+07	0					
2	5.50E+06	0	-2.10E+07	0	0	0	-5.50E+06	0
2.10E+07	0	0						
3	2.80E+06	0	0	0	0	0	-2.80E+06	0
0								
4	2.30E+09	0	0	0	0	0	-2.30E+09	0
5	2.30E+09	0	0	0	0	0	-2.30E+09	0
6	4.60E+09	0	0	0	0	0	-4.60E+09	
7	5.50E+06	0	0	0	-2.10E+07	0		
8	5.50E+06	0	-2.10E+07	0	0			
9	2.80E+06	0	0	0				
10	2.30E+09	0	0					
11	2.30E+09	0						
12	4.60E+09							

* *Dashpot blocco ancoraggio Sicilia

matrix damping 9 12

1	6.50E+05	0	0	0	7.00E+06	0	-6.50E+05	0
0	0	-7.00E+06	0					
2	6.40E+05	0	6.90E+06	0	0	0	-6.40E+05	0
-6.90E+06	0	0						
3	8.00E+05	0	0	0	0	0	-8.00E+05	0
0								
4	4.30E+10	0	0	0	0	0	-4.30E+10	0
5	2.70E+10	0	0	0	0	0	-2.70E+10	0
6	2.90E+09	0	0	0	0	0	-2.90E+09	
7	6.50E+05	0	0	0	7.00E+06	0		
8	6.40E+05	0	6.90E+06	0	0			
9	8.00E+05	0	0	0				
10	4.30E+10	0	0					
11	2.70E+10	0						
12	2.90E+09							

* *Dashpot blocco ancoraggio Calabria

matrix damping 10 12

1	5.20E+05	0	0	0	2.90E+06	0	-5.20E+05	0
0	0	-2.90E+06	0					
2	5.20E+05	0	2.90E+06	0	0	0	-5.20E+05	0
-2.90E+06	0	0						
3	5.90E+05	0	0	0	0	0	-5.90E+05	0
0								
4	6.30E+10	0	0	0	0	0	-6.30E+10	0
5	5.60E+10	0	0	0	0	0	-5.60E+10	0
6	2.50E+09	0	0	0	0	0	-2.50E+09	
7	5.20E+05	0	0	0	2.90E+06	0		
8	5.20E+05	0	2.90E+06	0	0			
9	5.90E+05	0	0	0				
10	6.30E+10	0	0					
11	5.60E+10	0						
12	2.50E+09							

* *Dashpot struttura terminale Sicilia

matrix damping 11 12

1	2.60E+06	0	0	0	-1.60E+07	0	-2.60E+06	0
0	0	1.60E+07	0					
2	2.70E+06	0	-1.60E+07	0	0	0	-2.70E+06	0
1.60E+07	0	0						
3	9.50E+05	0	0	0	0	0	-9.50E+05	0
0								
4	2.80E+09	0	0	0	0	0	-2.80E+09	0
5	2.10E+09	0	0	0	0	0	-2.10E+09	0
6	4.10E+09	0	0	0	0	0	-4.10E+09	
7	2.60E+06	0	0	0	-1.60E+07	0		
8	2.70E+06	0	-1.60E+07	0	0			
9	9.50E+05	0	0	0				
10	2.80E+09	0	0					
11	2.10E+09	0						
12	4.10E+09							

* *Dashpot struttura terminale Calabria

matrix damping 12 12

1	9.50E+05	0	0	0	3.10E+06	0	-9.50E+05	0
0	0	-3.10E+06	0					
2	9.60E+05	0	3.10E+06	0	0	0	-9.60E+05	0
-3.10E+06	0	0						
3	3.20E+05	0	0	0	0	0	-3.20E+05	0
0								
4	5.20E+08	0	0	0	0	0	-5.20E+08	0
5	4.00E+08	0	0	0	0	0	-4.00E+08	0
6	8.80E+08	0	0	0	0	0	-8.80E+08	
7	9.50E+05	0	0	0	3.10E+06	0		
8	9.60E+05	0	3.10E+06	0	0			
9	3.20E+05	0	0	0				
10	5.20E+08	0	0					
11	4.00E+08	0						
12	8.80E+08							

* *Molle Pantano

matrix stiffness 13 12

1	1.39E+07	0	0	0	0.00E+00	0	-1.39E+07	0
0	0	0.00E+00	0					
2	1.31E+07	0	0	0	0	0	-1.31E+07	0
0.00E+00	0	0						
3	8.87E+06	0	0	0	0	0	-8.87E+06	0
0								
4	2.19E+09	0	0	0	0	0	-2.19E+09	0
5	8.44E+08	0	0	0	0	0	-8.44E+08	0
6	3.32E+09	0	0	0	0	0	-3.32E+09	
7	1.39E+07	0	0	0	0.00E+00	0		
8	1.31E+07	0	0	0	0			
9	8.87E+06	0	0	0				
10	2.19E+09	0	0					
11	8.44E+08	0						
12	3.32E+09							

* *Dashpot Pantano

matrix damping 14 12

1	8.47E+05	0	0	0	0.00E+00	0	-8.47E+05	0
0	0	0.00E+00	0					
2	8.27E+05	0	0	0	0	0	-8.27E+05	0
0.00E+00	0	0						
3	7.67E+05	0	0	0	0	0	-7.67E+05	0
0								
4	1.19E+08	0	0	0	0	0	-1.19E+08	0
5	3.14E+07	0	0	0	0	0	-3.14E+07	0
6	1.03E+08	0	0	0	0	0	-1.03E+08	
7	8.47E+05	0	0	0	0.00E+00	0		
8	8.27E+05	0	0	0	0			
9	7.67E+05	0	0	0				
10	1.19E+08	0	0					
11	3.14E+07	0						
12	1.03E+08							

*

*Zampe Sicilia

matrixset n=1 sti=1 d=7

*Zampe Calabria

```

matrixset  n=2  sti=2 d=8
*
*Ancoraggio Sicilia
matrixset  n=3  sti=3 d=9
*
*Ancoraggio Calabria
matrixset  n=4  sti=4 d=10
*
*Struttura terminale Sicilia
matrixset  n=5  sti=5 d=11
*
*Struttura terminale Calabria
matrixset  n=6  sti=6 d=12
*
*Pantano
matrixset  n=7  sti=13  d=14
*
enodes
entries el n1 n2
*
*Torre Sicilia
1      3513  3514
2      3629  3630
*
* Torre Calabria
3      3789  3790
4      3905  3906
*
*Ancoraggio Sicilia
5      6914  6915
*
*Ancoraggio Calabria
6      6916  6917
*
*Stuttura terminale Sicilia
7      5656  5657
8      5666  5667
*
*Struttura terminale Calabria
9      6734  6735
10     6745  6746

```

```

*      *Pantano
      11      6909  6827
      12      6910  6839
      13      6911  6851
      14      6912  6863
      15      6913  6875

      edata

      entries el matrixset print save

*      *Sicilia
      1      1      no      no
      2      1      no      no

*      *****

*      *Calabria
      3      2      no      no
      4      2      no      no

*      *Ancoraggio Sicilia
      5      3      no      no

*      *Ancoraggio Calabria
      6      4      no      no

*      *Struttura terminale Sicilia
      7      5      no      no
      8      5      no      no

*      *Struttura terminale Calabria
      9      6      no      no
     10      6      no      no

*      *

*      *Pantano
     11      7      no      yes
     12      7      no      yes
     13      7      no      yes

```

14	7	no	yes				
15	7	no	yes				
*							
*	10	4	no	yes			
*	11	4	no	yes			
*	12	4	no	yes			
*	13	4	no	yes			
*	14	4	no	yes			
*	*						
*	*****						
	masses nodes						
*	*Massa blocco ancoraggio Sicilia						
	6915	964420	964420	964420	9.322E+08	9.163E+08	
		1.591E+09					
*	*Massa blocco ancoraggi Calabria						
	6917	807980	807980	807980	7.538E+08	6.199E+08	
		1.212E+09					
*	****Masse fondazioni						
*	***Torre Sicilia						
	3517	82940	82940	82940	18010000	18010000	33684000
	3519	34008	34008	34008	2921100	2921100	3575000
	3521	15326	15326	15326	4173300	4173300	8295000
	3633	82940	82940	82940	18010000	18010000	33684000
	3635	34008	34008	34008	2921100	2921100	3575000
	3637	15326	15326	15326	4173300	4173300	8295000
*	***Traversi						
	3756	1159.40825	1159.40825	1159.40825	0	73287.5	0
	3772	2318.8165	2318.8165	2318.8165	0	146550	0
	3765	2318.8165	2318.8165	2318.8165	0	146550	0
	3761	2318.8165	2318.8165	2318.8165	0	146550	0
	3777	1159.40825	1159.40825	1159.40825	0	73287.5	0
*	****Torre Calabria						

3793	63814	63814	63814	10869700	10869700	33684000	
3795	34008	34008	34008	2921100	2921100	3575000	
3797	10032	10032	10032	2262000	2262000	4490000	
3909	63814	63814	63814	10869700	10869700	33684000	
3911	34008	34008	34008	2921100	2921100	3575000	
3913	10032	10032	10032	2262000	2262000	4490000	
*	****Traversi						
4025	1505.47075	1505.47075	1505.47075	0	95162.5	0	
4024	3010.9415	3010.9415	3010.9415	0	190325	0	
4023	3010.546	3010.546	3010.546	0	190300	0	
4022	3010.546	3010.546	3010.546	0	190300	0	
4021	1505.47075	1505.47075	1505.47075	0	95162.5	0	
*	***						
*****	Cassoni stradali						
*	346	0.565817125	0.565817125	0.565817125	0	0	
*	347	1.131622936	1.131622936	1.131622936	0	0	
*	348	1.131622936	1.131622936	1.131622936	0	0	
*	349	1.131622936	1.131622936	1.131622936	0	0	
	350	14.07515076	14.07515076	14.07515076	0	0	
	351	27.01755841	27.01755841	27.01755841	0	0	
	352	27.01642691	27.01642691	27.01642691	0	0	
	353	27.01755841	27.01755841	27.01755841	0	0	
	354	21.99654526	21.99654526	21.99654526	0	0	
	356	16.9743893	16.9743893	16.9743893	0	0	
	357	16.9743893	16.9743893	16.9743893	0	0	
	358	16.9743893	16.9743893	16.9743893	0	0	
	359	16.9743893	16.9743893	16.9743893	0	0	
	360	16.9743893	16.9743893	16.9743893	0	0	
	361	16.9743893	16.9743893	16.9743893	0	0	
	362	16.9743893	16.9743893	16.9743893	0	0	

363	16.97437798	16.97437798	16.97437798	0	0
365	16.9743893	16.9743893	16.9743893	0	0
366	16.9743893	16.9743893	16.9743893	0	0
367	16.9743893	16.9743893	16.9743893	0	0
368	9.335914679	9.335914679	9.335914679	0	0
369	1.697428746	1.697428746	1.697428746	0	0
370	1.697451376	1.697451376	1.697451376	0	0
371	1.697451376	1.697451376	1.697451376	0	0
373	5.941034557	5.941034557	5.941034557	0	0
374	10.18462905	10.18462905	10.18462905	0	0
375	10.18462905	10.18462905	10.18462905	0	0
376	10.18462905	10.18462905	10.18462905	0	0
377	10.18462905	10.18462905	10.18462905	0	0
378	10.18462905	10.18462905	10.18462905	0	0
379	10.18462905	10.18462905	10.18462905	0	0
380	10.18462905	10.18462905	10.18462905	0	0
381	10.18462905	10.18462905	10.18462905	0	0
382	10.18462905	10.18462905	10.18462905	0	0
383	10.18462905	10.18462905	10.18462905	0	0
384	10.18462905	10.18462905	10.18462905	0	0
385	5.941023242	5.941023242	5.941023242	0	0
387	1.697428746	1.697428746	1.697428746	0	0
388	1.697451376	1.697451376	1.697451376	0	0
389	1.697451376	1.697451376	1.697451376	0	0
390	9.335903364	9.335903364	9.335903364	0	0
391	16.9743893	16.9743893	16.9743893	0	0
392	16.9743893	16.9743893	16.9743893	0	0
393	16.9743893	16.9743893	16.9743893	0	0
395	16.97440061	16.97440061	16.97440061	0	0
396	16.9743893	16.9743893	16.9743893	0	0

397	16.9743893	16.9743893	16.9743893	0	0	0
398	16.9743893	16.9743893	16.9743893	0	0	0
399	16.9743893	16.9743893	16.9743893	0	0	0
400	16.9743893	16.9743893	16.9743893	0	0	0
401	16.9743893	16.9743893	16.9743893	0	0	0
402	16.9743893	16.9743893	16.9743893	0	0	0
403	16.9743893	16.9743893	16.9743893	0	0	0
404	16.9743893	16.9743893	16.9743893	0	0	0
405	16.9743893	16.9743893	16.9743893	0	0	0
406	16.9743893	16.9743893	16.9743893	0	0	0
407	16.97437798	16.97437798	16.97437798	0	0	0
409	16.9743893	16.9743893	16.9743893	0	0	0
410	16.9743893	16.9743893	16.9743893	0	0	0
411	16.9743893	16.9743893	16.9743893	0	0	0
412	16.9743893	16.9743893	16.9743893	0	0	0
413	16.9743893	16.9743893	16.9743893	0	0	0
414	16.9743893	16.9743893	16.9743893	0	0	0
415	16.9743893	16.9743893	16.9743893	0	0	0
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700	16.97321254	16.97321254	16.97321254	0	0
701	16.97321254	16.97321254	16.97321254	0	0
702	16.97320122	16.97320122	16.97320122	0	0
703	16.97320122	16.97320122	16.97320122	0	0
704	16.97320122	16.97320122	16.97320122	0	0
705	16.97321254	16.97321254	16.97321254	0	0
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707	16.97320122	16.97320122	16.97320122	0	0
708	16.97320122	16.97320122	16.97320122	0	0
709	16.97321254	16.97321254	16.97321254	0	0
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711	16.97320122	16.97320122	16.97320122	0	0
712	16.97320122	16.97320122	16.97320122	0	0
713	16.97321254	16.97321254	16.97321254	0	0
714	16.97321254	16.97321254	16.97321254	0	0
715	16.97320122	16.97320122	16.97320122	0	0
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717	16.97321254	16.97321254	16.97321254	0	0
718	16.97321254	16.97321254	16.97321254	0	0
719	16.97320122	16.97320122	16.97320122	0	0
720	16.97320122	16.97320122	16.97320122	0	0
721	16.97321254	16.97321254	16.97321254	0	0
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723	16.97320122	16.97320122	16.97320122	0	0
724	16.97320122	16.97320122	16.97320122	0	0
725	16.97320122	16.97320122	16.97320122	0	0
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727	16.97321254	16.97321254	16.97321254	0	0
728	16.97320122	16.97320122	16.97320122	0	0
729	16.97320122	16.97320122	16.97320122	0	0

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733	16.97320122	16.97320122	16.97320122	0	0
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735	16.97321254	16.97321254	16.97321254	0	0
736	16.97320122	16.97320122	16.97320122	0	0
737	16.97320122	16.97320122	16.97320122	0	0
738	16.97321254	16.97321254	16.97321254	0	0
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740	16.97320122	16.97320122	16.97320122	0	0
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743	16.97321254	16.97321254	16.97321254	0	0
744	16.97320122	16.97320122	16.97320122	0	0
745	16.97320122	16.97320122	16.97320122	0	0
746	16.97320122	16.97320122	16.97320122	0	0
747	16.97321254	16.97321254	16.97321254	0	0
748	16.97321254	16.97321254	16.97321254	0	0
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757	16.97320122	16.97320122	16.97320122	0	0
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762	16.97320122	16.97320122	16.97320122	0	0
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765	16.97320122	16.97320122	16.97320122	0	0
766	16.97320122	16.97320122	16.97320122	0	0
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768	16.97321254	16.97321254	16.97321254	0	0
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775	16.97320122	16.97320122	16.97320122	0	0
776	16.97321254	16.97321254	16.97321254	0	0
777	16.97321254	16.97321254	16.97321254	0	0
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779	16.97320122	16.97320122	16.97320122	0	0
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781	16.97321254	16.97321254	16.97321254	0	0
782	16.97320122	16.97320122	16.97320122	0	0
783	16.97320122	16.97320122	16.97320122	0	0
784	16.97321254	16.97321254	16.97321254	0	0
785	16.97321254	16.97321254	16.97321254	0	0
786	16.97320122	16.97320122	16.97320122	0	0
787	16.97320122	16.97320122	16.97320122	0	0
788	16.97321254	16.97321254	16.97321254	0	0
789	16.97321254	16.97321254	16.97321254	0	0

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792	16.97320122	16.97320122	16.97320122	0	0
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795	16.97320122	16.97320122	16.97320122	0	0
796	16.97320122	16.97320122	16.97320122	0	0
797	16.97321254	16.97321254	16.97321254	0	0
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804	16.97320122	16.97320122	16.97320122	0	0
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806	16.97321254	16.97321254	16.97321254	0	0
807	16.97320122	16.97320122	16.97320122	0	0
808	16.97320122	16.97320122	16.97320122	0	0
809	16.97321254	16.97321254	16.97321254	0	0
811	16.97321254	16.97321254	16.97321254	0	0
812	16.97321254	16.97321254	16.97321254	0	0
813	16.97321254	16.97321254	16.97321254	0	0
814	16.97320122	16.97320122	16.97320122	0	0
815	16.97320122	16.97320122	16.97320122	0	0
816	16.97320122	16.97320122	16.97320122	0	0
817	16.97321254	16.97321254	16.97321254	0	0
818	16.97321254	16.97321254	16.97321254	0	0
819	16.97320122	16.97320122	16.97320122	0	0
820	16.97320122	16.97320122	16.97320122	0	0

821	16.97321254	16.97321254	16.97321254	0	0
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823	16.97321254	16.97321254	16.97321254	0	0
825	16.97321254	16.97321254	16.97321254	0	0
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827	16.97320122	16.97320122	16.97320122	0	0
828	9.33525841	9.33525841	9.33525841	0	0
829	1.697315596	1.697315596	1.697315596	0	0
830	1.697315596	1.697315596	1.697315596	0	0
831	1.697315596	1.697315596	1.697315596	0	0
833	5.940615902	5.940615902	5.940615902	0	0
834	10.18392752	10.18392752	10.18392752	0	0
835	10.18393884	10.18393884	10.18393884	0	0
836	10.18392752	10.18392752	10.18392752	0	0
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842	10.18392752	10.18392752	10.18392752	0	0
843	10.18392752	10.18392752	10.18392752	0	0
844	10.18392752	10.18392752	10.18392752	0	0
845	5.940615902	5.940615902	5.940615902	0	0
847	1.697315596	1.697315596	1.697315596	0	0
848	1.697304281	1.697304281	1.697304281	0	0
849	1.697304281	1.697304281	1.697304281	0	0
850	9.335269725	9.335269725	9.335269725	0	0
851	16.97321254	16.97321254	16.97321254	0	0
852	16.97320122	16.97320122	16.97320122	0	0
853	16.97320122	16.97320122	16.97320122	0	0

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856	16.97321254	16.97321254	16.97321254	0	0	
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859	16.97320122	16.97320122	16.97320122	0	0	
860	16.97321254	16.97321254	16.97321254	0	0	
861	16.97321254	16.97321254	16.97321254	0	0	
862	16.97320122	16.97320122	16.97320122	0	0	
864	21.99500642	21.99500642	21.99500642	0	0	
865	27.01568012	27.01568012	27.01568012	0	0	
866	27.01455994	27.01455994	27.01455994	0	0	
867	27.01569144	27.01569144	27.01569144	0	0	
868	14.07417768	14.07417768	14.07417768	0	0	
*	869	1.131543731	1.131543731	1.131543731	0	0
*	870	1.131543731	1.131543731	1.131543731	0	0
*	871	1.131543731	1.131543731	1.131543731	0	0
*	872	0.565771865	0.565771865	0.565771865	0	0
*	1428	0.565817125	0.565817125	0.565817125	0	0
*	1429	1.131622936	1.131622936	1.131622936	0	0
*	1430	1.131622936	1.131622936	1.131622936	0	0
*	1431	1.131622936	1.131622936	1.131622936	0	0
	1432	14.07515076	14.07515076	14.07515076	0	0
	1433	27.01755841	27.01755841	27.01755841	0	0
	1434	27.01642691	27.01642691	27.01642691	0	0
	1435	27.01755841	27.01755841	27.01755841	0	0
	1437	21.99654526	21.99654526	21.99654526	0	0
	1438	16.9743893	16.9743893	16.9743893	0	0
	1439	16.9743893	16.9743893	16.9743893	0	0
	1440	16.9743893	16.9743893	16.9743893	0	0
	1441	16.9743893	16.9743893	16.9743893	0	0

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1443	16.9743893	16.9743893	16.9743893	0	0	0
1444	16.9743893	16.9743893	16.9743893	0	0	0
1446	16.97437798	16.97437798	16.97437798	0	0	0
1447	16.9743893	16.9743893	16.9743893	0	0	0
1448	16.9743893	16.9743893	16.9743893	0	0	0
1449	16.9743893	16.9743893	16.9743893	0	0	0
1450	9.335914679	9.335914679	9.335914679	0	0	0
1451	1.697428746	1.697428746	1.697428746	0	0	0
1452	1.697451376	1.697451376	1.697451376	0	0	0
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1454	5.941034557	5.941034557	5.941034557	0	0	0
1456	10.18462905	10.18462905	10.18462905	0	0	0
1457	10.18462905	10.18462905	10.18462905	0	0	0
1458	10.18462905	10.18462905	10.18462905	0	0	0
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1460	10.18462905	10.18462905	10.18462905	0	0	0
1461	10.18462905	10.18462905	10.18462905	0	0	0
1462	10.18462905	10.18462905	10.18462905	0	0	0
1463	10.18462905	10.18462905	10.18462905	0	0	0
1464	10.18462905	10.18462905	10.18462905	0	0	0
1465	10.18462905	10.18462905	10.18462905	0	0	0
1466	10.18462905	10.18462905	10.18462905	0	0	0
1468	5.941023242	5.941023242	5.941023242	0	0	0
1469	1.697428746	1.697428746	1.697428746	0	0	0
1470	1.697451376	1.697451376	1.697451376	0	0	0
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1472	9.335903364	9.335903364	9.335903364	0	0	0
1473	16.9743893	16.9743893	16.9743893	0	0	0
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1475	16.9743893	16.9743893	16.9743893	0	0	0
1476	16.97440061	16.97440061	16.97440061	0	0	0
1478	16.9743893	16.9743893	16.9743893	0	0	0
1479	16.9743893	16.9743893	16.9743893	0	0	0
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1487	16.9743893	16.9743893	16.9743893	0	0	0
1488	16.9743893	16.9743893	16.9743893	0	0	0
1490	16.97437798	16.97437798	16.97437798	0	0	0
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1494	16.9743893	16.9743893	16.9743893	0	0	0
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1496	16.9743893	16.9743893	16.9743893	0	0	0
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1510	16.9743893	16.9743893	16.9743893	0	0	0
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1540	16.9743893	16.9743893	16.9743893	0	0	0
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1643	16.97369908	16.97369908	16.97369908	0	0	0
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1647	16.97350673	16.97350673	16.97350673	0	0	0
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1656	16.97312202	16.97312202	16.97312202	0	0	0
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1664	16.97286177	16.97286177	16.97286177	0	0
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1666	16.9728052	16.9728052	16.9728052	0	0
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1668	16.97275994	16.97275994	16.97275994	0	0
1669	16.97273731	16.97273731	16.97273731	0	0
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1911	1.697315596	1.697315596	1.697315596	0	0
1912	1.697315596	1.697315596	1.697315596	0	0
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1914	5.940615902	5.940615902	5.940615902	0	0
1916	10.18392752	10.18392752	10.18392752	0	0
1917	10.18393884	10.18393884	10.18393884	0	0
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1929	1.697315596	1.697315596	1.697315596	0	0
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1945	21.99500642	21.99500642	21.99500642	0	0	
1947	27.01568012	27.01568012	27.01568012	0	0	
1948	27.01455994	27.01455994	27.01455994	0	0	
1949	27.01569144	27.01569144	27.01569144	0	0	
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*	1951	1.131543731	1.131543731	1.131543731	0	0
*	1952	1.131543731	1.131543731	1.131543731	0	0
*	1953	1.131543731	1.131543731	1.131543731	0	0
*	1954	0.565771865	0.565771865	0.565771865	0	0
*	Cassone ferroviario			0	0	0
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1349	18.34940673	18.34940673	18.34940673	0	0
1350	18.34941896	18.34941896	18.34941896	0	0
1352	18.34941896	18.34941896	18.34941896	0	0
1353	18.34940673	18.34940673	18.34940673	0	0
1354	18.34940673	18.34940673	18.34940673	0	0
1355	18.34941896	18.34941896	18.34941896	0	0
1356	18.34941896	18.34941896	18.34941896	0	0
1357	18.34940673	18.34940673	18.34940673	0	0
1358	18.34940673	18.34940673	18.34940673	0	0
1359	18.34940673	18.34940673	18.34940673	0	0
1360	18.34941896	18.34941896	18.34941896	0	0
1361	18.34941896	18.34941896	18.34941896	0	0
1362	18.34940673	18.34940673	18.34940673	0	0
1363	18.34941896	18.34941896	18.34941896	0	0
1365	18.34941896	18.34941896	18.34941896	0	0
1366	18.34940673	18.34940673	18.34940673	0	0
1367	18.34940673	18.34940673	18.34940673	0	0
1368	10.09217125	10.09217125	10.09217125	0	0
1369	1.83493578	1.83493578	1.83493578	0	0
1370	1.83493578	1.83493578	1.83493578	0	0
1371	1.83493578	1.83493578	1.83493578	0	0
1372	6.422299694	6.422299694	6.422299694	0	0

1374	11.00965138	11.00965138	11.00965138	0	0
1375	11.00965138	11.00965138	11.00965138	0	0
1376	11.00966361	11.00966361	11.00966361	0	0
1377	11.00965138	11.00965138	11.00965138	0	0
1378	11.00965138	11.00965138	11.00965138	0	0
1379	11.00965138	11.00965138	11.00965138	0	0
1380	11.00965138	11.00965138	11.00965138	0	0
1381	11.00965138	11.00965138	11.00965138	0	0
1382	11.00965138	11.00965138	11.00965138	0	0
1383	11.00965138	11.00965138	11.00965138	0	0
1384	11.00965138	11.00965138	11.00965138	0	0
1386	6.422299694	6.422299694	6.422299694	0	0
1387	1.834923547	1.834923547	1.834923547	0	0
1388	1.834923547	1.834923547	1.834923547	0	0
1389	1.83493578	1.83493578	1.83493578	0	0
1390	10.09218349	10.09218349	10.09218349	0	0
1391	18.34941896	18.34941896	18.34941896	0	0
1392	18.34940673	18.34940673	18.34940673	0	0
1393	18.34940673	18.34940673	18.34940673	0	0
1395	18.34940673	18.34940673	18.34940673	0	0
1396	18.34940673	18.34940673	18.34940673	0	0
1397	18.34941896	18.34941896	18.34941896	0	0
1398	18.34941896	18.34941896	18.34941896	0	0
1399	18.34940673	18.34940673	18.34940673	0	0
1401	18.34941896	18.34941896	18.34941896	0	0
1402	18.34941896	18.34941896	18.34941896	0	0
1403	18.34940673	18.34940673	18.34940673	0	0
1404	23.77839755	23.77839755	23.77839755	0	0
1406	29.20615291	29.20615291	29.20615291	0	0
1407	29.20491743	29.20491743	29.20491743	0	0

1408	29.20614067	29.20614067	29.20614067	0	0
1409	15.21532722	15.21532722	15.21532722	0	0
1410	1.22329052	1.22329052	1.22329052	0	0
1411	1.22329052	1.22329052	1.22329052	0	0
1412	1.22329052	1.22329052	1.22329052	0	0
1414	4.663192661	4.663192661	4.663192661	0	0
1415	8.104330275	8.104330275	8.104330275	0	0
1416	8.105553517	8.105553517	8.105553517	0	0
1417	8.104330275	8.104330275	8.104330275	0	0
1418	6.920183486	6.920183486	6.920183486	0	0
1419	5.737235474	5.737235474	5.737235474	0	0
1420	5.737235474	5.737235474	5.737235474	0	0
1421	5.737247706	5.737247706	5.737247706	0	0
1423	7.761785933	7.761785933	7.761785933	0	0
1424	9.786336391	9.786336391	9.786336391	0	0
1425	9.786348624	9.786348624	9.786348624	0	0
1426	9.786348624	9.786348624	9.786348624	0	0
1427	4.893174312	4.893174312	4.893174312	0	0

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* ***Masse torre Sicilia

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3522	15.3	15.3	15.3	0	0	0
3523	30.59975535	30.59975535	30.59975535	0	0	0
3524	30.59975535	30.59975535	30.59975535	0	0	0
3525	30.59975535	30.59975535	30.59975535	0	0	0
3526	33.65963303	33.65963303	33.65963303	0	0	0
3527	36.71975535	36.71975535	36.71975535	0	0	0
3528	36.71975535	36.71975535	36.71975535	0	0	0
3529	36.71975535	36.71975535	36.71975535	0	0	0
3530	29.83486239	29.83486239	29.83486239	0	0	0

3531	22.94996942	22.94996942	22.94996942	0	0
3532	22.94978593	22.94978593	22.94978593	0	0
3533	22.94978593	22.94978593	22.94978593	0	0
3534	22.94996942	22.94996942	22.94996942	0	0
3535	22.94978593	22.94978593	22.94978593	0	0
3536	22.94978593	22.94978593	22.94978593	0	0
3537	22.94996942	22.94996942	22.94996942	0	0
3538	27.79681957	27.79681957	27.79681957	0	0
3539	32.63779817	32.63779817	32.63779817	0	0
3540	32.63779817	32.63779817	32.63779817	0	0
3541	32.64366972	32.64366972	32.64366972	0	0
3542	32.63779817	32.63779817	32.63779817	0	0
3543	32.63779817	32.63779817	32.63779817	0	0
3544	40.80165138	40.80165138	40.80165138	0	0
3545	48.95963303	48.95963303	48.95963303	0	0
3546	48.95963303	48.95963303	48.95963303	0	0
3547	48.95981651	48.95981651	48.95981651	0	0
3548	52.01969419	52.01969419	52.01969419	0	0
3549	55.07957187	55.07957187	55.07957187	0	0
3550	55.07957187	55.07957187	55.07957187	0	0
3551	55.07957187	55.07957187	55.07957187	0	0
3552	55.97938838	55.97938838	55.97938838	0	0
3553	56.88489297	56.88489297	56.88489297	0	0
3554	56.88489297	56.88489297	56.88489297	0	0
3555	56.88513761	56.88513761	56.88513761	0	0
3556	79.12093782	79.12093782	79.12093782	0	0
3557	1.254556575	1.254556575	1.254556575	0	0
3558	1.254556575	1.254556575	1.254556575	0	0
3559	1.254556575	1.254556575	1.254556575	0	0
3560	29.70012232	29.70012232	29.70012232	0	0

3561	58.13963303	58.13963303	58.13963303	0	0
3562	58.13944954	58.13944954	58.13944954	0	0
3563	58.13963303	58.13963303	58.13963303	0	0
3564	59.66966361	59.66966361	59.66966361	0	0
3565	61.1995107	61.1995107	61.1995107	0	0
3566	61.1995107	61.1995107	61.1995107	0	0
3567	61.1995107	61.1995107	61.1995107	0	0
3568	61.1995107	61.1995107	61.1995107	0	0
3569	61.1995107	61.1995107	61.1995107	0	0
3570	61.19975535	61.19975535	61.19975535	0	0
3571	61.19975535	61.19975535	61.19975535	0	0
3572	61.1995107	61.1995107	61.1995107	0	0
3573	61.1995107	61.1995107	61.1995107	0	0
3574	61.1995107	61.1995107	61.1995107	0	0
3575	61.1995107	61.1995107	61.1995107	0	0
3576	61.1995107	61.1995107	61.1995107	0	0
3577	61.1995107	61.1995107	61.1995107	0	0
3578	61.1995107	61.1995107	61.1995107	0	0
3579	61.19975535	61.19975535	61.19975535	0	0
3580	61.19975535	61.19975535	61.19975535	0	0
3581	61.1995107	61.1995107	61.1995107	0	0
3582	61.1995107	61.1995107	61.1995107	0	0
3583	61.1995107	61.1995107	61.1995107	0	0
3584	39.87149847	39.87149847	39.87149847	0	0
3585	18.54348624	18.54348624	18.54348624	0	0
3586	18.54348624	18.54348624	18.54348624	0	0
3587	18.54348624	18.54348624	18.54348624	0	0
3588	80.65072375	80.65072375	80.65072375	0	0
3589	42.65602446	42.65602446	42.65602446	0	0
3590	42.65602446	42.65602446	42.65602446	0	0

3591	42.65602446	42.65602446	42.65602446	0	0
3592	51.92801223	51.92801223	51.92801223	0	0
3593	61.19975535	61.19975535	61.19975535	0	0
3594	61.1995107	61.1995107	61.1995107	0	0
3595	61.1995107	61.1995107	61.1995107	0	0
3596	61.1995107	61.1995107	61.1995107	0	0
3597	61.1995107	61.1995107	61.1995107	0	0
3598	61.1995107	61.1995107	61.1995107	0	0
3599	61.1995107	61.1995107	61.1995107	0	0
3600	61.1995107	61.1995107	61.1995107	0	0
3601	61.19975535	61.19975535	61.19975535	0	0
3602	61.19975535	61.19975535	61.19975535	0	0
3603	61.1995107	61.1995107	61.1995107	0	0
3604	58.13944954	58.13944954	58.13944954	0	0
3605	55.07957187	55.07957187	55.07957187	0	0
3606	55.07975535	55.07975535	55.07975535	0	0
3607	55.07957187	55.07957187	55.07957187	0	0
3608	52.6316208	52.6316208	52.6316208	0	0
3609	50.18360856	50.18360856	50.18360856	0	0
3610	50.18360856	50.18360856	50.18360856	0	0
3611	50.18360856	50.18360856	50.18360856	0	0
3612	44.21669725	44.21669725	44.21669725	0	0
3613	38.24978593	38.24978593	38.24978593	0	0
3614	38.24978593	38.24978593	38.24978593	0	0
3615	38.24978593	38.24978593	38.24978593	0	0
3616	26.20568807	26.20568807	26.20568807	0	0
3617	14.16770642	14.16770642	14.16770642	0	0
3618	14.17382263	14.17382263	14.17382263	0	0
3619	14.16770642	14.16770642	14.16770642	0	0
3620	71.0362895	71.0362895	71.0362895	0	0

3621	27.81541284	27.81541284	27.81541284	0	0
3622	27.8151682	27.8151682	27.8151682	0	0
3623	27.80905199	27.80905199	27.80905199	0	0
3624	32.26452599	32.26452599	32.26452599	0	0
3625	36.71975535	36.71975535	36.71975535	0	0
3626	36.71975535	36.71975535	36.71975535	0	0
3627	36.71975535	36.71975535	36.71975535	0	0
3628	1139.664669	1139.664669	1139.664669	0	0
3638	15.3	15.3	15.3	0	0
3639	30.59975535	30.59975535	30.59975535	0	0
3640	30.59975535	30.59975535	30.59975535	0	0
3641	30.59975535	30.59975535	30.59975535	0	0
3642	33.65963303	33.65963303	33.65963303	0	0
3643	36.71975535	36.71975535	36.71975535	0	0
3644	36.71975535	36.71975535	36.71975535	0	0
3645	36.71975535	36.71975535	36.71975535	0	0
3646	29.83486239	29.83486239	29.83486239	0	0
3647	22.94996942	22.94996942	22.94996942	0	0
3648	22.94978593	22.94978593	22.94978593	0	0
3649	22.94978593	22.94978593	22.94978593	0	0
3650	22.94996942	22.94996942	22.94996942	0	0
3651	22.94978593	22.94978593	22.94978593	0	0
3652	22.94978593	22.94978593	22.94978593	0	0
3653	22.94996942	22.94996942	22.94996942	0	0
3654	27.79681957	27.79681957	27.79681957	0	0
3655	32.63779817	32.63779817	32.63779817	0	0
3656	32.63779817	32.63779817	32.63779817	0	0
3657	32.64366972	32.64366972	32.64366972	0	0
3658	32.63779817	32.63779817	32.63779817	0	0
3659	32.63779817	32.63779817	32.63779817	0	0

3660	40.80165138	40.80165138	40.80165138	0	0
3661	48.95963303	48.95963303	48.95963303	0	0
3662	48.95963303	48.95963303	48.95963303	0	0
3663	48.95981651	48.95981651	48.95981651	0	0
3664	52.01969419	52.01969419	52.01969419	0	0
3665	55.07957187	55.07957187	55.07957187	0	0
3666	55.07957187	55.07957187	55.07957187	0	0
3667	55.07957187	55.07957187	55.07957187	0	0
3668	55.97938838	55.97938838	55.97938838	0	0
3669	56.88489297	56.88489297	56.88489297	0	0
3670	56.88489297	56.88489297	56.88489297	0	0
3671	56.88513761	56.88513761	56.88513761	0	0
3672	79.12093782	79.12093782	79.12093782	0	0
3673	1.254556575	1.254556575	1.254556575	0	0
3674	1.254556575	1.254556575	1.254556575	0	0
3675	1.254556575	1.254556575	1.254556575	0	0
3676	29.70012232	29.70012232	29.70012232	0	0
3677	58.13963303	58.13963303	58.13963303	0	0
3678	58.13944954	58.13944954	58.13944954	0	0
3679	58.13963303	58.13963303	58.13963303	0	0
3680	59.66966361	59.66966361	59.66966361	0	0
3681	61.1995107	61.1995107	61.1995107	0	0
3682	61.1995107	61.1995107	61.1995107	0	0
3683	61.1995107	61.1995107	61.1995107	0	0
3684	61.1995107	61.1995107	61.1995107	0	0
3685	61.1995107	61.1995107	61.1995107	0	0
3686	61.19975535	61.19975535	61.19975535	0	0
3687	61.19975535	61.19975535	61.19975535	0	0
3688	61.1995107	61.1995107	61.1995107	0	0
3689	61.1995107	61.1995107	61.1995107	0	0

3690	61.1995107	61.1995107	61.1995107	0	0	0
3691	61.1995107	61.1995107	61.1995107	0	0	0
3692	61.1995107	61.1995107	61.1995107	0	0	0
3693	61.1995107	61.1995107	61.1995107	0	0	0
3694	61.1995107	61.1995107	61.1995107	0	0	0
3695	61.19975535	61.19975535	61.19975535	0	0	0
3696	61.19975535	61.19975535	61.19975535	0	0	0
3697	61.1995107	61.1995107	61.1995107	0	0	0
3698	61.1995107	61.1995107	61.1995107	0	0	0
3699	61.1995107	61.1995107	61.1995107	0	0	0
3700	39.87149847	39.87149847	39.87149847	0	0	0
3701	18.54348624	18.54348624	18.54348624	0	0	0
3702	18.54348624	18.54348624	18.54348624	0	0	0
3703	18.54348624	18.54348624	18.54348624	0	0	0
3704	80.65072375	80.65072375	80.65072375	0	0	0
3705	42.65602446	42.65602446	42.65602446	0	0	0
3706	42.65602446	42.65602446	42.65602446	0	0	0
3707	42.65602446	42.65602446	42.65602446	0	0	0
3708	51.92801223	51.92801223	51.92801223	0	0	0
3709	61.19975535	61.19975535	61.19975535	0	0	0
3710	61.1995107	61.1995107	61.1995107	0	0	0
3711	61.1995107	61.1995107	61.1995107	0	0	0
3712	61.1995107	61.1995107	61.1995107	0	0	0
3713	61.1995107	61.1995107	61.1995107	0	0	0
3714	61.1995107	61.1995107	61.1995107	0	0	0
3715	61.1995107	61.1995107	61.1995107	0	0	0
3716	61.1995107	61.1995107	61.1995107	0	0	0
3717	61.19975535	61.19975535	61.19975535	0	0	0
3718	61.19975535	61.19975535	61.19975535	0	0	0
3719	61.1995107	61.1995107	61.1995107	0	0	0

3720	58.13944954	58.13944954	58.13944954	0	0
3721	55.07957187	55.07957187	55.07957187	0	0
3722	55.07975535	55.07975535	55.07975535	0	0
3723	55.07957187	55.07957187	55.07957187	0	0
3724	52.6316208	52.6316208	52.6316208	0	0
3725	50.18360856	50.18360856	50.18360856	0	0
3726	50.18360856	50.18360856	50.18360856	0	0
3727	50.18360856	50.18360856	50.18360856	0	0
3728	44.21669725	44.21669725	44.21669725	0	0
3729	38.24978593	38.24978593	38.24978593	0	0
3730	38.24978593	38.24978593	38.24978593	0	0
3731	38.24978593	38.24978593	38.24978593	0	0
3732	26.20568807	26.20568807	26.20568807	0	0
3733	14.16770642	14.16770642	14.16770642	0	0
3734	14.17382263	14.17382263	14.17382263	0	0
3735	14.16770642	14.16770642	14.16770642	0	0
3736	71.0362895	71.0362895	71.0362895	0	0
3737	27.81541284	27.81541284	27.81541284	0	0
3738	27.8151682	27.8151682	27.8151682	0	0
3739	27.80905199	27.80905199	27.80905199	0	0
3740	32.26452599	32.26452599	32.26452599	0	0
3741	36.71975535	36.71975535	36.71975535	0	0
3742	36.71975535	36.71975535	36.71975535	0	0
3743	36.71975535	36.71975535	36.71975535	0	0
3744	1139.664669	1139.664669	1139.664669	0	0

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*Masse aggiuntive torre Calabria

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3798 15.3 15.3 15.3 0 0 0

3799 30.59975535 30.59975535 30.59975535 0 0

3800	30.59975535	30.59975535	30.59975535	0	0
3801	30.59975535	30.59975535	30.59975535	0	0
3802	33.65963303	33.65963303	33.65963303	0	0
3803	36.71975535	36.71975535	36.71975535	0	0
3804	36.71975535	36.71975535	36.71975535	0	0
3805	36.71975535	36.71975535	36.71975535	0	0
3806	29.83486239	29.83486239	29.83486239	0	0
3807	22.94996942	22.94996942	22.94996942	0	0
3808	22.94978593	22.94978593	22.94978593	0	0
3809	22.94978593	22.94978593	22.94978593	0	0
3810	22.94996942	22.94996942	22.94996942	0	0
3811	22.94978593	22.94978593	22.94978593	0	0
3812	22.94978593	22.94978593	22.94978593	0	0
3813	22.94996942	22.94996942	22.94996942	0	0
3814	27.79681957	27.79681957	27.79681957	0	0
3815	32.63779817	32.63779817	32.63779817	0	0
3816	32.63779817	32.63779817	32.63779817	0	0
3817	32.64366972	32.64366972	32.64366972	0	0
3818	32.63779817	32.63779817	32.63779817	0	0
3819	32.63779817	32.63779817	32.63779817	0	0
3820	40.80165138	40.80165138	40.80165138	0	0
3821	48.95963303	48.95963303	48.95963303	0	0
3822	48.95963303	48.95963303	48.95963303	0	0
3823	48.95981651	48.95981651	48.95981651	0	0
3824	52.01969419	52.01969419	52.01969419	0	0
3825	55.07957187	55.07957187	55.07957187	0	0
3826	55.07957187	55.07957187	55.07957187	0	0
3827	55.07957187	55.07957187	55.07957187	0	0
3828	55.97938838	55.97938838	55.97938838	0	0
3829	56.88489297	56.88489297	56.88489297	0	0

3830	56.88489297	56.88489297	56.88489297	0	0
3831	56.88513761	56.88513761	56.88513761	0	0
3832	79.12093782	79.12093782	79.12093782	0	0
3833	1.254556575	1.254556575	1.254556575	0	0
3834	1.254556575	1.254556575	1.254556575	0	0
3835	1.254556575	1.254556575	1.254556575	0	0
3836	29.70012232	29.70012232	29.70012232	0	0
3837	58.13963303	58.13963303	58.13963303	0	0
3838	58.13944954	58.13944954	58.13944954	0	0
3839	58.13963303	58.13963303	58.13963303	0	0
3840	59.66966361	59.66966361	59.66966361	0	0
3841	61.1995107	61.1995107	61.1995107	0	0
3842	61.1995107	61.1995107	61.1995107	0	0
3843	61.1995107	61.1995107	61.1995107	0	0
3844	61.1995107	61.1995107	61.1995107	0	0
3845	61.1995107	61.1995107	61.1995107	0	0
3846	61.19975535	61.19975535	61.19975535	0	0
3847	61.19975535	61.19975535	61.19975535	0	0
3848	61.1995107	61.1995107	61.1995107	0	0
3849	61.1995107	61.1995107	61.1995107	0	0
3850	61.1995107	61.1995107	61.1995107	0	0
3851	61.1995107	61.1995107	61.1995107	0	0
3852	61.1995107	61.1995107	61.1995107	0	0
3853	61.1995107	61.1995107	61.1995107	0	0
3854	61.1995107	61.1995107	61.1995107	0	0
3855	61.19975535	61.19975535	61.19975535	0	0
3856	61.19975535	61.19975535	61.19975535	0	0
3857	61.1995107	61.1995107	61.1995107	0	0
3858	61.1995107	61.1995107	61.1995107	0	0
3859	61.1995107	61.1995107	61.1995107	0	0

3860	39.87149847	39.87149847	39.87149847	0	0
3861	18.54348624	18.54348624	18.54348624	0	0
3862	18.54348624	18.54348624	18.54348624	0	0
3863	18.54348624	18.54348624	18.54348624	0	0
3864	80.65072375	80.65072375	80.65072375	0	0
3865	42.65602446	42.65602446	42.65602446	0	0
3866	42.65602446	42.65602446	42.65602446	0	0
3867	42.65602446	42.65602446	42.65602446	0	0
3868	51.92801223	51.92801223	51.92801223	0	0
3869	61.19975535	61.19975535	61.19975535	0	0
3870	61.1995107	61.1995107	61.1995107	0	0
3871	61.1995107	61.1995107	61.1995107	0	0
3872	61.1995107	61.1995107	61.1995107	0	0
3873	61.1995107	61.1995107	61.1995107	0	0
3874	61.1995107	61.1995107	61.1995107	0	0
3875	61.1995107	61.1995107	61.1995107	0	0
3876	61.1995107	61.1995107	61.1995107	0	0
3877	61.19975535	61.19975535	61.19975535	0	0
3878	61.19975535	61.19975535	61.19975535	0	0
3879	61.1995107	61.1995107	61.1995107	0	0
3880	58.13944954	58.13944954	58.13944954	0	0
3881	55.07957187	55.07957187	55.07957187	0	0
3882	55.07975535	55.07975535	55.07975535	0	0
3883	55.07957187	55.07957187	55.07957187	0	0
3884	52.6316208	52.6316208	52.6316208	0	0
3885	50.18360856	50.18360856	50.18360856	0	0
3886	50.18360856	50.18360856	50.18360856	0	0
3887	50.18360856	50.18360856	50.18360856	0	0
3888	44.21669725	44.21669725	44.21669725	0	0
3889	38.24978593	38.24978593	38.24978593	0	0

3890	38.24978593	38.24978593	38.24978593	0	0
3891	38.24978593	38.24978593	38.24978593	0	0
3892	26.20568807	26.20568807	26.20568807	0	0
3893	14.16770642	14.16770642	14.16770642	0	0
3894	14.17382263	14.17382263	14.17382263	0	0
3895	14.16770642	14.16770642	14.16770642	0	0
3896	71.0362895	71.0362895	71.0362895	0	0
3897	27.81541284	27.81541284	27.81541284	0	0
3898	27.8151682	27.8151682	27.8151682	0	0
3899	27.80905199	27.80905199	27.80905199	0	0
3900	32.26452599	32.26452599	32.26452599	0	0
3901	36.71975535	36.71975535	36.71975535	0	0
3902	36.71975535	36.71975535	36.71975535	0	0
3903	36.71975535	36.71975535	36.71975535	0	0
3904	1139.664669	1139.664669	1139.664669	0	0
3914	15.3	15.3	15.3	0	0
3915	30.59975535	30.59975535	30.59975535	0	0
3916	30.59975535	30.59975535	30.59975535	0	0
3917	30.59975535	30.59975535	30.59975535	0	0
3918	33.65963303	33.65963303	33.65963303	0	0
3919	36.71975535	36.71975535	36.71975535	0	0
3920	36.71975535	36.71975535	36.71975535	0	0
3921	36.71975535	36.71975535	36.71975535	0	0
3922	29.83486239	29.83486239	29.83486239	0	0
3923	22.94996942	22.94996942	22.94996942	0	0
3924	22.94978593	22.94978593	22.94978593	0	0
3925	22.94978593	22.94978593	22.94978593	0	0
3926	22.94996942	22.94996942	22.94996942	0	0
3927	22.94978593	22.94978593	22.94978593	0	0
3928	22.94978593	22.94978593	22.94978593	0	0

3929	22.94996942	22.94996942	22.94996942	0	0
3930	27.79681957	27.79681957	27.79681957	0	0
3931	32.63779817	32.63779817	32.63779817	0	0
3932	32.63779817	32.63779817	32.63779817	0	0
3933	32.64366972	32.64366972	32.64366972	0	0
3934	32.63779817	32.63779817	32.63779817	0	0
3935	32.63779817	32.63779817	32.63779817	0	0
3936	40.80165138	40.80165138	40.80165138	0	0
3937	48.95963303	48.95963303	48.95963303	0	0
3938	48.95963303	48.95963303	48.95963303	0	0
3939	48.95981651	48.95981651	48.95981651	0	0
3940	52.01969419	52.01969419	52.01969419	0	0
3941	55.07957187	55.07957187	55.07957187	0	0
3942	55.07957187	55.07957187	55.07957187	0	0
3943	55.07957187	55.07957187	55.07957187	0	0
3944	55.97938838	55.97938838	55.97938838	0	0
3945	56.88489297	56.88489297	56.88489297	0	0
3946	56.88489297	56.88489297	56.88489297	0	0
3947	56.88513761	56.88513761	56.88513761	0	0
3948	79.12093782	79.12093782	79.12093782	0	0
3949	1.254556575	1.254556575	1.254556575	0	0
3950	1.254556575	1.254556575	1.254556575	0	0
3951	1.254556575	1.254556575	1.254556575	0	0
3952	29.70012232	29.70012232	29.70012232	0	0
3953	58.13963303	58.13963303	58.13963303	0	0
3954	58.13944954	58.13944954	58.13944954	0	0
3955	58.13963303	58.13963303	58.13963303	0	0
3956	59.66966361	59.66966361	59.66966361	0	0
3957	61.1995107	61.1995107	61.1995107	0	0
3958	61.1995107	61.1995107	61.1995107	0	0

3959	61.1995107	61.1995107	61.1995107	0	0	0
3960	61.1995107	61.1995107	61.1995107	0	0	0
3961	61.1995107	61.1995107	61.1995107	0	0	0
3962	61.19975535	61.19975535	61.19975535	0	0	0
3963	61.19975535	61.19975535	61.19975535	0	0	0
3964	61.1995107	61.1995107	61.1995107	0	0	0
3965	61.1995107	61.1995107	61.1995107	0	0	0
3966	61.1995107	61.1995107	61.1995107	0	0	0
3967	61.1995107	61.1995107	61.1995107	0	0	0
3968	61.1995107	61.1995107	61.1995107	0	0	0
3969	61.1995107	61.1995107	61.1995107	0	0	0
3970	61.1995107	61.1995107	61.1995107	0	0	0
3971	61.19975535	61.19975535	61.19975535	0	0	0
3972	61.19975535	61.19975535	61.19975535	0	0	0
3973	61.1995107	61.1995107	61.1995107	0	0	0
3974	61.1995107	61.1995107	61.1995107	0	0	0
3975	61.1995107	61.1995107	61.1995107	0	0	0
3976	39.87149847	39.87149847	39.87149847	0	0	0
3977	18.54348624	18.54348624	18.54348624	0	0	0
3978	18.54348624	18.54348624	18.54348624	0	0	0
3979	18.54348624	18.54348624	18.54348624	0	0	0
3980	80.65072375	80.65072375	80.65072375	0	0	0
3981	42.65602446	42.65602446	42.65602446	0	0	0
3982	42.65602446	42.65602446	42.65602446	0	0	0
3983	42.65602446	42.65602446	42.65602446	0	0	0
3984	51.92801223	51.92801223	51.92801223	0	0	0
3985	61.19975535	61.19975535	61.19975535	0	0	0
3986	61.1995107	61.1995107	61.1995107	0	0	0
3987	61.1995107	61.1995107	61.1995107	0	0	0
3988	61.1995107	61.1995107	61.1995107	0	0	0

3989	61.1995107	61.1995107	61.1995107	0	0	0
3990	61.1995107	61.1995107	61.1995107	0	0	0
3991	61.1995107	61.1995107	61.1995107	0	0	0
3992	61.1995107	61.1995107	61.1995107	0	0	0
3993	61.19975535	61.19975535	61.19975535	0	0	0
3994	61.19975535	61.19975535	61.19975535	0	0	0
3995	61.1995107	61.1995107	61.1995107	0	0	0
3996	58.13944954	58.13944954	58.13944954	0	0	0
3997	55.07957187	55.07957187	55.07957187	0	0	0
3998	55.07975535	55.07975535	55.07975535	0	0	0
3999	55.07957187	55.07957187	55.07957187	0	0	0
4000	52.6316208	52.6316208	52.6316208	0	0	0
4001	50.18360856	50.18360856	50.18360856	0	0	0
4002	50.18360856	50.18360856	50.18360856	0	0	0
4003	50.18360856	50.18360856	50.18360856	0	0	0
4004	44.21669725	44.21669725	44.21669725	0	0	0
4005	38.24978593	38.24978593	38.24978593	0	0	0
4006	38.24978593	38.24978593	38.24978593	0	0	0
4007	38.24978593	38.24978593	38.24978593	0	0	0
4008	26.20568807	26.20568807	26.20568807	0	0	0
4009	14.16770642	14.16770642	14.16770642	0	0	0
4010	14.17382263	14.17382263	14.17382263	0	0	0
4011	14.16770642	14.16770642	14.16770642	0	0	0
4012	71.0362895	71.0362895	71.0362895	0	0	0
4013	27.81541284	27.81541284	27.81541284	0	0	0
4014	27.8151682	27.8151682	27.8151682	0	0	0
4015	27.80905199	27.80905199	27.80905199	0	0	0
4016	32.26452599	32.26452599	32.26452599	0	0	0
4017	36.71975535	36.71975535	36.71975535	0	0	0
4018	36.71975535	36.71975535	36.71975535	0	0	0

4019	36.71975535	36.71975535	36.71975535	0	0
4020	1139.664669	1139.664669	1139.664669	0	0
*	****Masse nodi pendini (traversi)				
* 4076	9.021406728	9.021406728	9.021406728	0	0
* 4077	9.021406728	9.021406728	9.021406728	0	0
* 4078	9.021406728	9.021406728	9.021406728	0	0
* 4079	9.021406728	9.021406728	9.021406728	0	0
* 4080	9.021406728	9.021406728	9.021406728	0	0
* 4081	9.021406728	9.021406728	9.021406728	0	0
* 4082	9.021406728	9.021406728	9.021406728	0	0
* 4083	9.021406728	9.021406728	9.021406728	0	0
* 4084	9.021406728	9.021406728	9.021406728	0	0
* 4085	9.021406728	9.021406728	9.021406728	0	0
* 4086	9.021406728	9.021406728	9.021406728	0	0
* 4087	9.021406728	9.021406728	9.021406728	0	0
* 4088	9.021406728	9.021406728	9.021406728	0	0
* 4089	9.021406728	9.021406728	9.021406728	0	0
* 4090	9.021406728	9.021406728	9.021406728	0	0
* 4091	9.021406728	9.021406728	9.021406728	0	0
* 4092	9.021406728	9.021406728	9.021406728	0	0
* 4093	9.021406728	9.021406728	9.021406728	0	0
* 4094	9.021406728	9.021406728	9.021406728	0	0
* 4095	9.021406728	9.021406728	9.021406728	0	0
* 4096	9.021406728	9.021406728	9.021406728	0	0
* 4097	9.021406728	9.021406728	9.021406728	0	0
* 4098	9.021406728	9.021406728	9.021406728	0	0
* 4099	9.021406728	9.021406728	9.021406728	0	0
* 4100	9.021406728	9.021406728	9.021406728	0	0
* 4101	9.021406728	9.021406728	9.021406728	0	0
* 4102	9.021406728	9.021406728	9.021406728	0	0

*	4103	9.021406728	9.021406728	9.021406728	0	0
*	4104	9.021406728	9.021406728	9.021406728	0	0
*	4105	9.021406728	9.021406728	9.021406728	0	0
*	4106	9.021406728	9.021406728	9.021406728	0	0
*	4107	9.021406728	9.021406728	9.021406728	0	0
*	4108	9.021406728	9.021406728	9.021406728	0	0
*	4109	9.021406728	9.021406728	9.021406728	0	0
*	4110	9.021406728	9.021406728	9.021406728	0	0
*	4111	9.021406728	9.021406728	9.021406728	0	0
*	4112	9.021406728	9.021406728	9.021406728	0	0
*	4113	9.021406728	9.021406728	9.021406728	0	0
*	4114	9.021406728	9.021406728	9.021406728	0	0
*	4115	9.021406728	9.021406728	9.021406728	0	0
*	4116	9.021406728	9.021406728	9.021406728	0	0
*	4117	9.021406728	9.021406728	9.021406728	0	0
*	4118	9.021406728	9.021406728	9.021406728	0	0
*	4119	9.021406728	9.021406728	9.021406728	0	0
*	4120	9.021406728	9.021406728	9.021406728	0	0
*	4121	9.021406728	9.021406728	9.021406728	0	0
*	4122	9.021406728	9.021406728	9.021406728	0	0
*	4123	9.021406728	9.021406728	9.021406728	0	0
*	4124	9.021406728	9.021406728	9.021406728	0	0
*	4125	9.021406728	9.021406728	9.021406728	0	0
*	4126	9.021406728	9.021406728	9.021406728	0	0
*	4127	9.021406728	9.021406728	9.021406728	0	0
*	4128	9.021406728	9.021406728	9.021406728	0	0
*	4129	9.021406728	9.021406728	9.021406728	0	0
*	4130	9.021406728	9.021406728	9.021406728	0	0
*	4131	9.021406728	9.021406728	9.021406728	0	0
*	4132	9.021406728	9.021406728	9.021406728	0	0

*	4133	9.021406728	9.021406728	9.021406728	0	0
*	4134	9.021406728	9.021406728	9.021406728	0	0
*	4135	9.021406728	9.021406728	9.021406728	0	0
*	4136	9.021406728	9.021406728	9.021406728	0	0
*	4137	9.021406728	9.021406728	9.021406728	0	0
*	4138	9.021406728	9.021406728	9.021406728	0	0
*	4139	9.021406728	9.021406728	9.021406728	0	0
*	4140	9.021406728	9.021406728	9.021406728	0	0
*	4141	9.021406728	9.021406728	9.021406728	0	0
*	4142	9.021406728	9.021406728	9.021406728	0	0
*	4143	9.021406728	9.021406728	9.021406728	0	0
*	4144	9.021406728	9.021406728	9.021406728	0	0
*	4145	9.021406728	9.021406728	9.021406728	0	0
*	4146	9.021406728	9.021406728	9.021406728	0	0
*	4147	9.021406728	9.021406728	9.021406728	0	0
*	4148	9.021406728	9.021406728	9.021406728	0	0
*	4149	9.021406728	9.021406728	9.021406728	0	0
*	4150	9.021406728	9.021406728	9.021406728	0	0
*	4151	9.021406728	9.021406728	9.021406728	0	0
*	4152	9.021406728	9.021406728	9.021406728	0	0
*	4153	9.021406728	9.021406728	9.021406728	0	0
*	4154	9.021406728	9.021406728	9.021406728	0	0
*	4155	9.021406728	9.021406728	9.021406728	0	0
*	4156	9.021406728	9.021406728	9.021406728	0	0
*	4157	9.021406728	9.021406728	9.021406728	0	0
*	4158	9.021406728	9.021406728	9.021406728	0	0
*	4159	9.021406728	9.021406728	9.021406728	0	0
*	4160	9.021406728	9.021406728	9.021406728	0	0
*	4161	9.021406728	9.021406728	9.021406728	0	0
*	4162	9.021406728	9.021406728	9.021406728	0	0

*	4163	9.021406728	9.021406728	9.021406728	0	0
*	4164	9.021406728	9.021406728	9.021406728	0	0
*	4165	9.021406728	9.021406728	9.021406728	0	0
*	4166	9.021406728	9.021406728	9.021406728	0	0
*	4167	9.021406728	9.021406728	9.021406728	0	0
*	4168	9.021406728	9.021406728	9.021406728	0	0
*	4169	9.021406728	9.021406728	9.021406728	0	0
*	4170	9.021406728	9.021406728	9.021406728	0	0
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*	4200	9.021406728	9.021406728	9.021406728	0	0
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*	4220	9.021406728	9.021406728	9.021406728	0	0
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*	4225	9.021406728	9.021406728	9.021406728	0	0
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*	4228	9.021406728	9.021406728	9.021406728	0	0
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*	4230	9.021406728	9.021406728	9.021406728	0	0
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*	4310	9.021406728	9.021406728	9.021406728	0	0
*	4311	9.021406728	9.021406728	9.021406728	0	0
*	4312	9.021406728	9.021406728	9.021406728	0	0

*	4313	9.021406728	9.021406728	9.021406728	0	0
*	*Masse Pantano					
	6769	432.775174	432.775174	432.775174	0	0
	6770	865.63159	865.63159	865.63159	0	0
	6771	814.1068555	814.1068555	814.1068555	0	0
	6772	381.2504394	381.2504394	381.2504394	0	0
	6773	381.3608623	381.3608623	381.3608623	0	0
	6774	814.2320346	814.2320346	814.2320346	0	0
	6775	814.1980456	814.1980456	814.1980456	0	0
	6776	381.3268733	381.3268733	381.3268733	0	0
	6777	381.3172569	381.3172569	381.3172569	0	0
	6778	814.1892582	814.1892582	814.1892582	0	0
	6779	814.1433315	814.1433315	814.1433315	0	0
	6780	381.2713302	381.2713302	381.2713302	0	0
	6781	381.5024557	381.5024557	381.5024557	0	0
	6782	814.2560756	814.2560756	814.2560756	0	0
	6783	814.1405129	814.1405129	814.1405129	0	0
	6784	381.386893	381.386893	381.386893	0	0
	6785	381.611718	381.611718	381.611718	0	0
	6786	814.7309274	814.7309274	814.7309274	0	0
	6787	814.8285837	814.8285837	814.8285837	0	0
	6788	381.7093744	381.7093744	381.7093744	0	0
	6789	281.3093925	281.3093925	281.3093925	0	0
	6790	614.3574018	614.3574018	614.3574018	0	0
	6791	665.882468	665.882468	665.882468	0	0
	6792	332.8344587	332.8344587	332.8344587	0	0
	6750	108.1582113	108.1582113	108.1582113	0	0
	6751	216.7420639	216.7420639	216.7420639	0	0
	6752	216.3123119	216.3123119	216.3123119	0	0
	6753	215.9042573	215.9042573	215.9042573	0	0

6754	216.3321023	216.3321023	216.3321023	0	0
6755	216.2829018	216.2829018	216.2829018	0	0
6756	216.2970136	216.2970136	216.2970136	0	0
6757	216.3172277	216.3172277	216.3172277	0	0
6758	216.3220164	216.3220164	216.3220164	0	0
6759	216.3393065	216.3393065	216.3393065	0	0
6760	216.3286273	216.3286273	216.3286273	0	0
6761	215.3951743	215.3951743	215.3951743	0	0
6762	217.1396513	217.1396513	217.1396513	0	0
6763	218.8808652	218.8808652	218.8808652	0	0
6764	217.9549554	217.9549554	217.9549554	0	0
6765	193.7381054	193.7381054	193.7381054	0	0
6766	169.5321465	169.5321465	169.5321465	0	0
6767	169.5261288	169.5261288	169.5261288	0	0
6768	84.74899503	84.74899503	84.74899503	0	0
6793	113.0728775	113.0728775	113.0728775	0	0
6794	226.1374913	226.1374913	226.1374913	0	0
6795	226.1158787	226.1158787	226.1158787	0	0
6796	226.1378303	226.1378303	226.1378303	0	0
6797	226.1756312	226.1756312	226.1756312	0	0
6798	226.1420257	226.1420257	226.1420257	0	0
6799	226.1249051	226.1249051	226.1249051	0	0
6800	226.1245237	226.1245237	226.1245237	0	0
6801	226.1265579	226.1265579	226.1265579	0	0
6802	226.1467296	226.1467296	226.1467296	0	0
6803	226.1459245	226.1459245	226.1459245	0	0
6804	226.1469839	226.1469839	226.1469839	0	0
6805	225.4699582	225.4699582	225.4699582	0	0
6806	224.8152231	224.8152231	224.8152231	0	0
6807	224.8200117	224.8200117	224.8200117	0	0

```

6808 197.839883 197.839883 197.839883 0 0 0
6809 170.8323359 170.8323359 170.8323359 0 0 0
6810 170.78589 170.78589 170.78589 0 0 0
6811 85.39250004 85.39250004 85.39250004 0 0 0
* ***
timef 1 1
0 1
1.00E+10 1
* *
timef 2 1
0 0
1 0
* *
timef 3 1
0 0
1 0
* *
timef 4 1
0 0
1 0
*
load mass-proportional name=1 magnitude=9.81 ax=0 ay=0 az=-1
interpre=body-force
* *
* *Accelerazioni
load mass-proportional name=2 magnitude=1 ax=1 ay=0 az=0
interpre=ground-acceleration
load mass-proportional name=3 magnitude=1 ax=0 ay=1 az=0
interpre=ground-acceleration
load mass-proportional name=4 magnitude=1 ax=0 ay=0 az=1
interpre=ground-acceleration
* *

```

apply-load body=0

1 'mass-proportional' 1 'model' 0 0 1

2 'mass-proportional' 2 'model' 0 0 2

3 'mass-proportional' 3 'model' 0 0 3

4 'mass-proportional' 4 'model' 0 0 4

dataend

* ***

* *

*

apply concentrated-loads

* *Compensazione molle torre

3514 1 -2.59215E+02 1 0 0

3514 2 1.16185E+04 1 0 0

3514 3 2.65416E+06 1 0 0

3514 4 -2.17032E+04 1 0 0

3514 5 -1.07363E+04 1 0 0

3514 6 -1.14104E+02 1 0 0

3630 1 -8.73513E+01 1 0 0

3630 2 -1.15547E+04 1 0 0

3630 3 2.65408E+06 1 0 0

3630 4 2.13012E+04 1 0 0

3630 5 -8.59396E+03 1 0 0

3630 6 -1.45406E+02 1 0 0

3790 1 2.53591E+02 1 0 0

3790 2 1.98799E+04 1 0 0

3790 3 2.38326E+06 1 0 0

3790 4 -2.43600E+04 1 0 0

3790 5 1.29143E+04 1 0 0

3790 6 1.02411E+02 1 0 0

3906 1 1.11807E+02 1 0 0

3906	2	-1.98269E+04	1	0	0
3906	3	2.38319E+06	1	0	0
3906	4	2.39976E+04	1	0	0
3906	5	1.07907E+04	1	0	0
3906	6	1.58793E+02	1	0	0

* *Compensazione molle blocchi di ancoraggio

6915	1	-2.37790E+06	1	0	0
6915	2	-7.22490E-02	1	0	0
6915	3	8.77173E+06	1	0	0
6915	4	9.64565E+01	1	0	0
6915	5	-2.91417E+07	1	0	0
6915	6	-2.75509E+02	1	0	0
6917	1	2.37788E+06	1	0	0
6917	2	-4.32079E-02	1	0	0
6917	3	7.24426E+06	1	0	0
6917	4	9.45636E+01	1	0	0
6917	5	3.89544E+07	1	0	0
6917	6	2.81056E+02	1	0	0

* *Compensazione molle strutture terminali

5657	1	-3.10862E-14	1	0	0
5657	2	4.57048E+00	1	0	0
5657	3	2.17414E+05	1	0	0
5657	4	8.00576E+02	1	0	0
5657	5	8.64581E+00	1	0	0
5657	6	-2.81479E+02	1	0	0
5667	1	3.20916E-01	1	0	0
5667	2	-8.47039E+01	1	0	0
5667	3	1.82709E+05	1	0	0
5667	4	4.92146E+03	1	0	0
5667	5	-3.73499E+01	1	0	0

5667	6	-1.33211E+03	1	0	0
6735	1	-3.47995E-01	1	0	0
6735	2	-7.86087E+01	1	0	0
6735	3	1.33930E+05	1	0	0
6735	4	8.84808E+02	1	0	0
6735	5	4.50303E+01	1	0	0
6735	6	1.42808E+03	1	0	0
6746	1	0.00000E+00	1	0	0
6746	2	2.55949E+01	1	0	0
6746	3	1.40778E+05	1	0	0
6746	4	5.78485E+02	1	0	0
6746	5	-4.93398E+00	1	0	0
6746	6	7.08742E+02	1	0	0

* *Compensazione molle Pantano

6827	1	-5.43783E+02	1	0	0
6827	2	-2.26664E+02	1	0	0
6827	3	1.44953E+05	1	0	0
6827	4	2.85842E+04	1	0	0
6827	5	5.96945E+03	1	0	0
6827	6	-2.10475E+01	1	0	0
6839	1	9.22614E+01	1	0	0
6839	2	3.47904E+01	1	0	0
6839	3	1.55070E+05	1	0	0
6839	4	1.69726E+04	1	0	0
6839	5	6.77098E+03	1	0	0
6839	6	9.06652E+00	1	0	0
6851	1	1.56799E+02	1	0	0
6851	2	2.40607E+01	1	0	0
6851	3	1.57384E+05	1	0	0
6851	4	1.83082E+04	1	0	0

6851	5	6.50641E+03	1	0	0
6851	6	1.64294E+00	1	0	0
6863	1	5.02031E+01	1	0	0
6863	2	5.05584E+01	1	0	0
6863	3	-1.07695E+01	1	0	0
6863	4	1.58057E+05	1	0	0
6863	5	1.64794E+04	1	0	0
6863	6	3.23855E+03	1	0	0
6875	1	-1.87022E+02	1	0	0
6875	2	9.10938E+00	1	0	0
6875	3	1.55893E+05	1	0	0
6875	4	9.70743E+03	1	0	0
6875	5	-2.05960E+03	1	0	0
6875	6	-1.51442E+01	1	0	0

