Solução do Problema ship08l - Solver HiGHS

Análise Computacional

16 de setembro de 2025

1 Informações do Problema

Informações do Problema:

- Nome: ship08l

- Número de Variáveis: 4283

- Número de Restrições: 778

- Inviabilidade Primal: 0.000e+00

- Inviabilidade Dual: 0.000e+00

- Valor Primal: 1.909e+06

- Valor Dual: 1.909e+06

- Gap: 3.194e-23

- Número de Iterações: 16

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema ship08l

Coordenada x	Valor x	Coordenada z	Valor z
1	0.052671	1	0.000000
2	51.319401	2	0.000000
3	30.111712	3	0.000000
4	41.293454	4	0.000000
5	46.573291	5	0.000000
6	34.288304	6	0.000000
7	71.302065	7	0.000000
8	14.999999	8	0.000000
9	49.247331	9	0.000000
10	24.907291	10	0.000000
11	-0.000000	11	0.000000
12	14.804478	12	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
13	14.300002	13	0.000000
14	-0.000000	14	0.000000
15	0.000000	15	1229.780784
16	0.000000	16	1280.032919
17	0.000000	17	1299.032919
18	0.000000	18	1287.032919
19	0.000000	19	947.071459
20	0.000000	20	1366.325323
21	0.000000	21	1195.432919
22	0.000000	22	1087.929477
23	0.000000	23	720.032919
24	0.000000	24	721.391459
25	0.000000	25	812.622497
26	0.000000	26	709.391459
27	0.000000	27	758.391459
28	0.000000	28	898.557865
29	0.000000	29	432.037865
30	0.000000	30	56.467865
31	0.000000	31	476.727865
32	0.000000	32	396.067865
33	0.000000	33	127.927865
34	0.000000	34	97.832135
35	0.000000	35	265.480000
36	0.316026	36	0.000000
37	0.000000	37	529.260000
38	0.000000	38	173.920000
39	0.000000	39	43.120000
40	0.000000	40	115.272135
41	0.000000	41	861.710000
42	-0.000000	42	0.000000
43	0.000000	43	298.180000
44	0.000000	44	127.050000
45	0.000000	45	20.230000
46	0.000000	46	437.912135
47	0.000000	47	1293.350000
48	0.000000	48	742.900000
49	0.000000	49	736.360000
50	0.000000	50	696.030000
51	0.000000	51	737.450000
52	0.000000	52	205.530000
53	0.000000	53	231.902135
54	0.000000	54	996.870000
55	0.000000	55	476.940000
56	-0.000000	56	0.000000
57	0.000000	57	473.670000
58	0.000000	58	497.650000
59	0.000000	59	127.050000
60	0.000000	60	226.452135
61	0.000000	61	960.900000

Coordenada x	Valor x	Coordenada z	Valor z
62	0.000000	62	471.490000
63	0.263355	63	0.000000
64	0.000000	64	424.620000
65	0.000000	65	414.810000
66	0.000000	66	423.530000
67	0.000000	67	68.190000
68	0.000000	68	45.512135
69	0.000000	69	837.730000
70	0.000000	70	387.560000
71	1.158760	71	0.000000
72	0.000000	72	412.630000
73	0.000000	73	339.600000
74	0.000000	74	471.490000
75	0.000000	75	85.630000
76	0.000000	76	50.962135
77	0.000000	77	885.690000
78	0.000000	78	362.490000
79	0.948077	79	0.000000
80	0.000000	80	317.800000
81	0.000000	81	340.690000
82	0.000000	82	76.910000
83	0.000000	83	122.902135
84	0.000000	84	886.780000
85	0.000000	85	385.380000
86	0.421368	86	0.000000
87	0.000000	87	373.390000
88	0.000000	88	382.110000
89	0.000000	89	78.000000
90	0.000000	90	126.172135
91	0.000000	91	525.990000
92	0.000000	92	348.320000
93	0.579380	93	0.000000
94	0.000000	94	416.990000
95	0.000000	95	282.920000
96	0.000000	96	83.450000
97	0.000000	97	212.282135
98	0.000000	98	1133.120000
99	0.000000	99	596.840000
100	0.632051	100	0.000000
101	0.000000	101	608.830000
102	0.000000	102	491.110000
103	0.000000	103	101.980000
104	0.000000	104	126.172135
105	0.000000	105	896.590000
106	0.000000	106	419.170000
107	0.526709	107	0.000000
108	0.000000	108	461.680000
109	0.000000	109	369.030000
110	0.000000	110	83.450000

Coordenada x	Valor x	Coordenada z	Valor z
111	0.000000	111	186.122135
112	0.000000	112	977.250000
113	0.000000	113	474.760000
114	0.421368	114	0.000000
115	0.000000	115	555.420000
116	0.000000	116	416.990000
117	0.000000	117	62.740000
118	0.000000	118	59.682135
119	0.000000	119	399.550000
120	0.000000	120	214.250000
121	1.211430	121	0.000000
122	0.000000	122	303.630000
123	0.000000	123	115.060000
124	0.000000	124	30.040000
125	0.000000	125	107.642135
126	0.000000	126	737.450000
127	0.000000	127	412.630000
128	0.948077	128	0.000000
129	0.000000	129	423.530000
130	0.000000	130	258.940000
131	0.000000	131	52.930000
132	0.000000	132	350.712135
133	0.000000	133	1233.400000
134	0.000000	134	714.560000
135	1.053420	135	0.000000
136	0.000000	136	651.340000
137	0.000000	137	703.660000
138	0.000000	138	109.610000
139	0.000000	139	271.142135
140	0.000000	140	970.710000
141	0.000000	141	604.470000
142	0.421368	142	0.000000
143	0.000000	143	664.420000
144	0.000000	144	644.800000
145	0.000000	145	86.720000
146	0.000000	146	345.262135
147	0.000000	147	1320.600000
148	0.000000	148	650.250000
149	0.684722	149	0.000000
150	0.000000	150	442.060000
151	0.000000	151	631.720000
152	0.000000	152	76.910000
153	0.000000	153	348.532135
154	0.000000	154	1366.380000
155	0.000000	155	678.590000
156	1.158760	156	0.000000
157	0.000000	157	582.670000
158	0.000000	158	156.480000
159	0.000000	159	338.722135

Coordenada x	Valor x	Coordenada z	Valor z
160	0.000000	160	797.400000
161	0.000000	161	615.370000
162	1.106090	162	0.000000
163	0.000000	163	639.350000
164	0.000000	164	142.310000
165	0.000000	165	274.412135
166	0.000000	166	1130.940000
167	0.000000	167	559.780000
168	0.684722	168	0.000000
169	0.000000	169	339.600000
170	0.000000	170	522.720000
171	0.000000	171	49.660000
172	0.000000	172	321.282135
173	0.000000	173	1152.740000
174	0.000000	174	608.830000
175	0.579380	175	0.000000
176	0.000000	176	387.560000
177	0.000000	177	111.790000
178	0.052671	178	0.000000
179	0.000000	179	290.762135
180	0.000000	180	831.190000
181	0.000000	181	655.700000
182	0.684722	182	0.000000
183	0.000000	183	626.270000
184	0.000000	184	488.930000
185	0.000000	185	95.440000
186	0.210684	186	0.000000
187	0.000000	187	138.162135
188	0.000000	188	689.490000
189	0.000000	189	427.890000
190	0.316026	190	0.000000
191	0.000000	191	435.520000
192	0.000000	192	355.950000
193	0.000000	193	51.840000
194	0.000000	194	191.572135
195	0.000000	195	1043.740000
196	0.000000	196	479.120000
197	0.895406	197	0.000000
198	0.000000	198	178.280000
199	0.000000	199	391.920000
200	0.000000	200	239.320000
201	0.000000	201	97.620000
202	0.000000	202	274.412135
203	0.000000	203	1033.930000
204	0.000000	204	523.810000
205	0.474038	205	0.000000
206	0.000000	206	640.440000
207	0.000000	207	496.560000
208	0.000000	208	82.360000

Coordenada x	Valor x	Coordenada z	Valor z
209	0.000000	209	424.832135
210	0.000000	210	888.960000
211	0.000000	211	716.740000
212	0.842735	212	0.000000
213	0.000000	213	543.430000
214	0.000000	214	227.330000
215	0.000000	215	93.472135
216	0.000000	216	851.900000
217	0.000000	217	322.160000
218	0.579380	218	0.000000
219	0.000000	219	447.510000
220	0.000000	220	275.290000
221	0.000000	221	109.610000
222	0.000000	222	403.032135
223	0.000000	223	1094.970000
224	0.000000	224	767.970000
225	1.000750	225	0.000000
226	0.000000	226	644.800000
227	0.000000	227	167.380000
228	0.000000	228	300.572135
229	0.000000	229	696.030000
230	0.000000	230	584.850000
231	1.158760	231	0.000000
232	0.000000	232	591.390000
233	0.000000	233	72.550000
234	0.000000	234	439.002135
235	0.000000	235	1229.040000
236	0.000000	236	796.310000
237	1.053420	237	0.000000
238	0.000000	238	639.350000
239	0.000000	239	198.990000
240	0.000000	240	617.762135
241	0.000000	241	1097.150000
242	0.000000	242	755.980000
243	0.632051	243	0.000000
244	0.000000	244	725.460000
245	0.000000	245	265.480000
246	0.000000	246	68.402135
247	0.000000	247	830.100000
248	0.000000	248	190.270000
249	0.368697	249	0.000000
250	0.000000	250	362.490000
251	0.000000	251	145.580000
252	0.000000	252	88.900000
253	0.000000	253	17.172135
254	0.000000	254	786.500000
255	0.000000	255	318.890000
256	1.948820	256	0.000000
257	0.000000	257	255.670000

Coordenada x	Valor x	Coordenada z	Valor z
258	0.000000	258	309.080000
259	0.000000	259	85.630000
260	0.000000	260	60.772135
261	0.000000	261	675.320000
262	0.000000	262	245.860000
263	1.790810	263	0.000000
264	0.000000	264	355.950000
265	0.000000	265	135.770000
266	0.000000	266	343.960000
267	0.000000	267	64.920000
268	0.000000	268	118.542135
269	0.000000	269	843.180000
270	0.000000	270	381.020000
271	0.368697	271	0.000000
272	0.000000	272	584.850000
273	0.000000	273	379.930000
274	0.000000	274	54.020000
275	0.000000	275	104.372135
276	0.000000	276	833.370000
277	0.000000	277	266.570000
278	1.106090	278	0.000000
279	0.000000	279	305.810000
280	0.000000	280	248.040000
281	0.000000	281	117.240000
282	0.000000	282	108.732135
283	0.000000	283	718.920000
284	0.000000	284	288.370000
285	0.737393	285	0.000000
286	0.000000	286	436.610000
287	0.000000	287	184.820000
288	0.000000	288	115.060000
289	0.000000	289	133.802135
290	0.000000	290	983.790000
291	0.000000	291	439.880000
292	0.263355	292	0.000000
293	0.000000	293	569.590000
294	0.000000	294	391.920000
295	0.000000	295	95.440000
296	0.000000	296	98.922135
297	0.000000	297	852.990000
298	0.000000	298	182.640000
299	1.527460	299	0.000000
300	0.000000	300	347.230000
301	0.000000	301	215.340000
302	0.000000	302	384.290000
303	0.000000	303	115.060000
304	0.000000	304	81.482135
305	0.000000	305	818.110000
306	0.000000	306	277.470000

Coordenada x	Valor x	Coordenada z	Valor z
307	0.895406	307	0.000000
308	0.000000	308	386.470000
309	0.000000	309	185.910000
310	0.000000	310	127.050000
311	0.000000	311	117.452135
312	0.000000	312	902.040000
313	0.000000	313	335.240000
314	1.369440	314	0.000000
315	0.000000	315	325.430000
316	0.000000	316	318.890000
317	0.000000	317	340.690000
318	0.000000	318	156.480000
319	0.000000	319	28.072135
320	0.000000	320	555.420000
321	0.000000	321	231.690000
322	0.895406	322	0.000000
323	0.000000	323	370.120000
324	0.000000	324	221.880000
325	0.000000	325	143.400000
326	0.000000	326	69.492135
327	0.000000	327	852.990000
328	0.000000	328	352.680000
329	0.632051	329	0.000000
330	0.000000	330	343.960000
331	0.000000	331	288.370000
332	0.000000	332	109.610000
333	0.000000	333	101.102135
334	0.000000	334	863.890000
335	0.000000	335	376.660000
336	0.526709	336	0.000000
337	0.000000	337	407.180000
338	0.000000	338	303.630000
339	0.000000	339	104.160000
340	0.000000	340	191.572135
341	0.000000	341	912.940000
342	0.000000	342	424.620000
343	0.368697	343	0.000000
344	0.000000	344	139.040000
345	0.000000	345	382.110000
346	0.000000	346	175.010000
347	0.000000	347	171.740000
348	0.000000	348	113.092135
349	0.000000	349	1014.310000
350	0.000000	350	348.320000
351	0.526709	351	0.000000
352	0.000000	352	246.950000
353	0.000000	353	195.720000
354	0.000000	354	187.000000
355	0.000000	355	241.712135

Coordenada x	Valor x	Coordenada z	Valor z
356	0.000000	356	976.160000
357	0.000000	357	481.300000
358	0.421368	358	0.000000
359	0.000000	359	154.300000
360	0.000000	360	183.730000
361	0.000000	361	240.410000
362	0.000000	362	19.352135
363	0.000000	363	721.100000
364	0.000000	364	216.430000
365	-0.000000	365	0.000000
366	0.000000	366	359.220000
367	0.000000	367	67.100000
368	0.000000	368	190.482135
369	0.000000	369	989.240000
370	0.000000	370	383.200000
371	1.000750	371	0.000000
372	0.000000	372	140.130000
373	0.000000	373	371.210000
374	0.000000	374	154.300000
375	0.000000	375	132.500000
376	0.000000	376	76.032135
377	0.000000	377	856.260000
378	0.000000	378	340.690000
379	0.421368	379	0.000000
380	0.000000	380	246.950000
381	0.000000	381	276.380000
382	0.000000	382	206.620000
383	0.000000	383	230.812135
384	0.000000	384	946.730000
385	0.000000	385	463.860000
386	1.106090	386	0.000000
387	0.000000	387	236.050000
388	0.000000	388	424.620000
389	0.000000	389	240.410000
390	0.000000	390	142.310000
391	0.000000	391	275.502135
392	0.000000	392	978.340000
393	0.000000	393	412.630000
394	0.790064	394	0.000000
395	0.000000	395	139.040000
396	0.000000	396	400.640000
397	0.000000	397	179.370000
398	0.000000	398	133.590000
399	0.000000	399	277.682135
400	0.000000	400	1056.820000
401	0.000000	401	539.070000
402	0.684722	402	0.000000
403	0.000000	403	316.710000
404	0.000000	404	521.630000

Coordenada x	Valor x	Coordenada z	Valor z
405	0.000000	405	350.500000
406	0.000000	406	139.040000
407	0.000000	407	194.842135
408	0.000000	408	939.100000
409	0.000000	409	407.180000
410	2.001500	410	0.000000
411	0.000000	411	37.670000
412	0.000000	412	410.450000
413	0.000000	413	144.490000
414	0.000000	414	45.300000
415	0.000000	415	206.832135
416	0.000000	416	1021.940000
417	0.000000	417	471.490000
418	1.211430	418	0.000000
419	0.000000	419	296.000000
420	0.000000	420	486.750000
421	0.000000	421	292.730000
422	0.000000	422	154.300000
423	0.000000	423	192.662135
424	0.000000	424	1004.500000
425	0.000000	425	446.420000
426	1.211430	426	0.000000
427	0.000000	427	195.720000
428	0.000000	428	440.970000
429	0.000000	429	200.080000
430	0.000000	430	128.140000
431	0.000000	431	135.982135
432	0.000000	432	881.330000
433	0.000000	433	388.650000
434	0.526709	434	0.000000
435	0.000000	435	152.120000
436	0.000000	436	370.120000
437	0.000000	437	177.190000
438	0.000000	438	176.100000
439	0.000000	439	98.922135
440	0.000000	440	952.180000
441	0.000000	441	354.860000
442	-0.000000	442	0.000000
443	0.000000	443	85.630000
444	0.000000	444	408.270000
445	0.000000	445	48.570000
446	0.000000	446	296.212135
447	0.000000	447	656.790000
448	0.000000	448	605.560000
449	0.210684	449	0.000000
450	0.000000	450	624.090000
451	0.000000	451	171.740000
452	0.000000	452	252.612135
453	0.000000	453	421.350000

Coordenada x	Valor x	Coordenada z	Valor z
454	0.000000	454	502.010000
455	0.263355	455	0.000000
456	0.000000	456	556.510000
457	0.000000	457	146.670000
458	0.000000	458	213.372135
459	0.000000	459	499.830000
460	0.000000	460	517.270000
461	0.210684	461	0.000000
462	0.000000	462	548.880000
463	0.000000	463	143.400000
464	0.000000	464	130.532135
465	0.000000	465	415.900000
466	0.000000	466	323.250000
467	0.105342	467	0.000000
468	0.000000	468	654.610000
469	0.000000	469	195.720000
470	0.000000	470	157.782135
471	0.000000	471	307.990000
472	0.000000	472	355.950000
473	0.158013	473	0.000000
474	0.000000	474	414.810000
475	0.000000	475	181.550000
476	0.000000	476	159.962135
477	0.000000	477	481.300000
478	0.948077	478	0.000000
479	0.000000	479	454.050000
480	0.000000	480	287.280000
481	0.000000	481	643.710000
482	0.000000	482	155.390000
483	0.000000	483	266.782135
484	0.000000	484	715.650000
485	0.000000	485	529.260000
486	0.210684	486	0.000000
487	0.000000	487	599.020000
488	0.000000	488	142.310000
489	0.000000	489	175.222135
490	0.000000	490	644.800000
491	0.000000	491	348.320000
492	0.158013	492	0.000000
493	0.000000	493	505.280000
494	0.000000	494	263.300000
495	0.000000	495	193.540000
496	0.000000	496	151.242135
497	0.000000	497	279.650000
498	0.000000	498	405.000000
499	0.105342	499	0.000000
500	0.000000	500	493.290000
501	0.000000	501	122.690000
502	0.210684	502	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
503	0.000000	503	65.132135
504	0.000000	504	495.470000
505	0.000000	505	230.600000
506	0.052671	506	0.000000
507	0.000000	507	388.650000
508	0.000000	508	157.570000
509	0.000000	509	302.540000
510	0.000000	510	285.312135
511	0.000000	511	604.470000
512	0.000000	512	543.430000
513	1.000750	513	0.000000
514	0.000000	514	561.960000
515	0.000000	515	54.020000
516	0.000000	516	331.092135
517	0.000000	517	480.210000
518	0.000000	518	584.850000
519	0.842735	519	0.000000
520	0.000000	520	600.110000
521	0.000000	521	230.600000
522	0.000000	522	242.802135
523	0.000000	523	253.490000
524	0.000000	524	446.420000
525	0.105342	525	0.000000
526	0.000000	526	127.050000
527	0.000000	527	189.872135
528	0.000000	528	771.720000
529	0.000000	529	550.450000
530	0.000000	530	3.750000
531	0.000000	531	535.190000
532	0.263355	532	0.000000
533	0.000000	533	113.092135
534	0.000000	534	334.150000
535	0.000000	535	422.440000
536	0.316026	536	0.000000
537	0.000000	537	869.340000
538	0.000000	538	226.240000
539	0.000000	539	376.872135
540	0.000000	540	1247.570000
541	0.000000	541	710.200000
542	0.263355	542	0.000000
543	0.000000	543	702.570000
544	0.000000	544	634.990000
545	0.000000	545	176.312135
546	0.000000	546	551.060000
547	0.000000	547	471.490000
548	0.316026	548	0.000000
549	0.000000	549	519.450000
550	0.000000	550	358.130000
551	0.000000	551	161.930000

Coordenada x	Valor x	Coordenada z	Valor z
552	0.000000	552	106.241460
553	0.000000	553	518.921460
554	0.000000	554	252.561460
555	0.000000	555	706.680000
556	0.000000	556	344.201460
557	0.000000	557	323.121460
558	0.000000	558	849.798540
559	0.000000	559	1156.680000
560	0.000000	560	1015.560000
561	0.000000	561	1593.678540
562	0.000000	562	918.720000
563	0.000000	563	1053.880000
564	0.000000	564	4.238540
565	0.000000	565	26.160000
566	0.000000	566	150.160000
567	0.000000	567	465.398540
568	-0.000000	568	0.000000
569	0.000000	569	162.440000
570	0.000000	570	221.118540
571	0.000000	571	367.040000
572	0.000000	572	684.240000
573	0.000000	573	813.718540
574	0.000000	574	497.120000
575	0.000000	575	663.678540
576	0.000000	576	223.080000
577	-0.000000	577	0.000000
578	0.000000	578	43.001460
579	0.000000	579	394.921460
580	0.000000	580	13.241460
581	0.000000	581	257.401460
582	0.000000	582	404.120000
583	0.000000	583	147.041460
584	1.178250	584	0.000000
585	0.000000	585	8.281460
586	0.000000	586	394.921460
587	0.000000	587	19.441460
588	0.000000	588	478.520000
589	0.000000	589	196.641460
590	0.000000	590	326.000000
591	0.000000	591	86.281460
592	3.796590	592	0.000000
593	0.000000	593	74.001460
594	0.000000	594	505.281460
595	0.000000	595	225.281460
596	0.000000	596	670.720000
597	0.000000	597	316.921460
598	0.000000	598	586.400000
599	0.000000	599	311.961460
600	2.749250	600	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
601	0.000000	601	122.361460
602	0.000000	602	470.561460
603	0.000000	603	219.081460
604	0.000000	604	556.640000
605	0.000000	605	311.961460
606	0.000000	606	295.841460
607	1.571000	607	0.000000
608	0.000000	608	41.761460
609	0.000000	609	414.761460
610	0.000000	610	137.241460
611	0.000000	611	538.040000
612	0.000000	612	396.680000
613	0.000000	613	215.241460
614	0.000000	614	372.398540
615	2.094670	615	0.000000
616	0.000000	616	741.280000
617	0.000000	617	505.920000
618	0.000000	618	956.318540
619	0.000000	619	533.080000
620	0.000000	620	590.120000
621	1.963750	621	0.000000
622	0.000000	622	220.321460
623	0.000000	623	553.641460
624	0.000000	624	35.561460
625	0.000000	625	704.200000
626	0.000000	626	299.561460
627	0.000000	627	140.841460
628	1.832840	628	0.000000
629	0.000000	629	49.201460
630	0.000000	630	449.481460
631	0.000000	631	133.521460
632	0.000000	632	634.760000
633	0.000000	633	258.641460
634	0.000000	634	217.721460
635	1.701920	635	0.000000
636	0.000000	636	72.761460
637	0.000000	637	444.521460
638	0.000000	638	65.321460
639	0.000000	639	673.200000
640	0.000000	640	245.001460
641	0.000000	641	125.961460
642	0.000000	642	440.598540
643	6.153090	643	0.000000
644	0.000000	644	732.600000
645	0.000000	645	649.760000
646	0.000000	646	971.198540
647	0.000000	647	485.960000
648	0.000000	648	673.200000
649	0.000000	649	110.758540

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Coordenada x	Valor x	Coordenada z	Valor z
650	2.094670	650	0.000000
651	0.000000	651	573.880000
652	0.000000	652	265.360000
653	0.000000	653	723.198540
654	0.000000	654	265.240000
655	0.000000	655	314.840000
656	0.000000	656	121.918540
657	0.000000	657	298.840000
658	0.000000	658	652.000000
659	2.094670	659	0.000000
660	0.000000	660	716.998540
661	0.000000	661	625.238540
662	0.000000	662	113.960000
663	0.000000	663	31.398540
664	0.097837	664	0.000000
665	0.000000	665	526.760000
666	1.473163	666	0.000000
667	0.000000	667	731.878540
668	0.000000	668	438.840000
669	0.000000	669	87.920000
670	0.000000	670	115.718540
671	0.000000	671	398.040000
672	0.000000	672	578.840000
673	3.011090	673	0.000000
674	0.000000	674	478.918540
675	0.000000	675	423.960000
676	0.000000	676	76.760000
677	0.000000	677	119.438540
678	0.000000	678	450.120000
679	0.000000	679	611.080000
680	3.011090	680	0.000000
681	0.000000	681	638.878540
682	0.000000	682	167.280000
683	0.000000	683	305.438540
684	3.142000	684	0.000000
685	0.000000	685	736.320000
686	0.000000	686	197.160000
687	0.000000	687	900.518540
688	0.000000	688	348.320000
689	0.000000	689	35.118540
690	0.000000	690	182.280000
691	0.000000	691	475.920000
692	2.225590	692	0.000000
693	0.000000	693	362.358540
694	0.000000	694	299.960000
695	0.000000	695	45.760000
696	0.000000	696	88.438540
697	0.000000	697	207.080000
698	0.000000	698	531.720000

Coordenada x	Valor x	Coordenada z	Valor z
699	2.225590	699	0.000000
700	0.000000	700	416.918540
701	0.000000	701	116.440000
702	0.130917	702	0.000000
703	0.000000	703	212.438540
704	1.309170	704	0.000000
705	0.000000	705	743.760000
706	0.000000	706	158.720000
707	0.000000	707	847.198540
708	0.000000	708	420.240000
709	0.000000	709	256.560000
710	0.523667	710	0.000000
711	0.000000	711	200.038540
712	1.178250	712	0.000000
713	0.000000	713	645.800000
714	0.000000	714	319.920000
715	0.000000	715	791.398540
716	0.000000	716	430.160000
717	0.000000	717	368.160000
718	1.571000	718	0.000000
719	0.000000	719	142.201460
720	0.000000	720	443.281460
721	0.000000	721	59.121460
722	0.000000	722	237.960000
723	0.000000	723	210.281460
724	0.000000	724	156.120000
725	0.000000	725	159.441460
726	0.000000	726	35.118540
727	0.000000	727	71.920000
728	0.000000	728	435.000000
729	1.309170	729	0.000000
730	0.000000	730	704.598540
731	0.000000	731	270.200000
732	0.000000	732	82.960000
733	0.000000	733	299.238540
734	1.571000	734	0.000000
735	0.000000	735	747.480000
736	0.000000	736	93.000000
737	0.000000	737	687.238540
738	0.000000	738	340.880000
739	1.571000	739	0.000000
740	0.000000	740	35.561460
741	0.000000	741	376.321460
742	0.000000	742	170.721460
743	0.000000	743	655.840000
744	0.000000	744	189.201460
745	0.000000	745	284.681460
746	0.000000	746	181.438540
747	0.000000	747	141.360000

Coordenada x	Valor x	Coordenada z	Valor z
748	0.000000	748	712.760000
749	1.963750	749	0.000000
750	0.000000	750	709.558540
751	0.000000	751	179.680000
752	0.000000	752	377.358540
753	2.749250	753	0.000000
754	0.000000	754	816.920000
755	0.000000	755	312.480000
756	0.000000	756	961.278540
757	0.000000	757	384.280000
758	0.000000	758	222.358540
759	0.000000	759	293.880000
760	0.000000	760	745.000000
761	2.094670	761	0.000000
762	0.000000	762	703.358540
763	0.000000	763	215.640000
764	0.000000	764	425.718540
765	0.000000	765	143.840000
766	0.000000	766	699.120000
767	1.309170	767	0.000000
768	0.000000	768	801.318540
769	0.000000	769	291.280000
770	0.654584	770	0.000000
771	0.000000	771	39.281460
772	0.000000	772	254.801460
773	0.000000	773	199.241460
774	0.000000	774	587.640000
775	0.000000	775	70.161460
776	0.000000	776	289.641460
777	3.665670	777	0.000000
778	0.000000	778	47.961460
779	0.000000	779	459.401460
780	0.000000	780	257.521460
781	0.000000	781	524.400000
782	0.000000	782	314.441460
783	0.000000	783	344.201460
784	0.000000	784	128.118540
785	3.142000	785	0.000000
786	0.000000	786	454.840000
787	0.000000	787	336.040000
788	0.000000	788	716.998540
789	0.000000	789	195.800000
790	0.000000	790	552.078540
791	0.000000	791	399.160000
792	0.000000	792	2.878540
793	1.571000	793	0.000000
794	0.000000	794	417.640000
795	0.000000	795	145.080000
796	0.000000	796	786.438540

Coordenada x	Valor x	Coordenada z	Valor z
797	0.000000	797	282.600000
798	0.000000	798	195.800000
799	1.701920	799	0.000000
800	0.000000	800	2.081460
801	0.000000	801	300.681460
802	0.000000	802	158.321460
803	0.000000	803	482.240000
804	0.000000	804	145.801460
805	0.000000	805	280.961460
806	0.000000	806	133.078540
807	1.178250	807	0.000000
808	0.000000	808	453.600000
809	0.000000	809	286.440000
810	0.000000	810	759.158540
811	0.000000	811	202.000000
812	0.000000	812	406.600000
813	1.309170	813	0.000000
814	0.000000	814	139.721460
815	0.000000	815	464.361460
816	0.000000	816	124.841460
817	0.000000	817	748.840000
818	0.000000	818	276.001460
819	0.000000	819	222.681460
820	4.189340	820	0.000000
821	0.000000	821	30.601460
822	0.000000	822	211.401460
823	0.000000	823	164.521460
824	0.000000	824	535.560000
825	0.000000	825	114.801460
826	0.000000	826	426.440000
827	0.000000	827	284.681460
828	1.178250	828	0.000000
829	0.000000	829	10.761460
830	0.000000	830	339.121460
831	0.000000	831	184.361460
832	0.000000	832	600.040000
833	0.000000	833	101.161460
834	0.000000	834	318.161460
835	2.225590	835	0.000000
836	0.000000	836	65.321460
837	0.000000	837	363.921460
838	0.000000	838	143.441460
839	0.000000	839	489.680000
840	0.000000	840	211.521460
841	0.000000	841	355.760000
842	0.000000	842	310.721460
843	0.000000	843	227.318540
844	2.094670	844	0.000000
845	0.000000	845	575.120000

Coordenada x	Valor x	Coordenada z	Valor z
846	0.000000	846	472.440000
847	0.000000	847	869.518540
848	0.000000	848	430.160000
849	0.000000	849	624.840000
850	1.440090	850	0.000000
851	0.000000	851	64.081460
852	0.000000	852	438.321460
853	0.000000	853	198.001460
854	0.000000	854	565.320000
855	0.000000	855	231.361460
856	0.000000	856	311.961460
857	1.047330	857	0.000000
858	0.000000	858	40.521460
859	0.000000	859	429.641460
860	0.000000	860	162.041460
861	0.000000	861	601.280000
862	0.000000	862	212.761460
863	0.000000	863	269.801460
864	0.000000	864	6.598540
865	0.654584	865	0.000000
866	0.000000	866	387.880000
867	0.000000	867	65.720000
868	0.000000	868	199.918540
869	0.000000	869	205.720000
870	0.000000	870	89.558540
871	0.000000	871	250.360000
872	0.785501	872	0.000000
873	0.000000	873	198.001460
874	0.000000	874	383.761460
875	0.000000	875	148.401460
876	0.000000	876	405.360000
877	0.000000	877	195.800000
878	0.000000	878	350.401460
879	0.523667	879	0.000000
880	0.000000	880	8.281460
881	0.000000	881	388.721460
882	0.000000	882	2.081460
883	0.000000	883	153.640000
884	0.000000	884	35.840000
885	0.000000	885	264.841460
886	0.000000	886	28.918540
887	-0.000000	887	0.000000
888	0.000000	888	369.280000
889	0.000000	889	283.960000
890	0.000000	890	668.638540
891	0.000000	891	349.560000
892	2.225590	892	0.000000
893	0.000000	893	81.441460
894	0.000000	894	335.401460

Coordenada x	Valor x	Coordenada z	Valor z
895	0.000000	895	60.361460
896	0.000000	896	195.800000
897	0.000000	897	187.961460
898	0.000000	898	60.640000
899	0.000000	899	200.361460
900	0.654584	900	0.000000
901	0.000000	901	60.361460
902	0.000000	902	417.241460
903	0.000000	903	190.561460
904	0.000000	904	447.520000
905	0.000000	905	210.281460
906	0.000000	906	414.881460
907	0.000000	907	12.798540
908	1.832840	908	0.000000
909	0.000000	909	394.080000
910	0.000000	910	27.280000
911	0.000000	911	271.838540
912	0.000000	912	215.640000
913	0.000000	913	125.518540
914	0.000000	914	178.440000
915	0.000000	915	36.358540
916	0.000000	916	8.680000
917	0.000000	917	308.520000
918	1.571000	918	0.000000
919	0.000000	919	134.198540
920	0.000000	920	161.080000
921	0.000000	921	28.798540
922	0.000000	922	141.240000
923	0.000000	923	38.838540
924	0.000000	924	97.960000
925	0.000000	925	452.360000
926	1.309170	926	0.000000
927	0.000000	927	336.318540
928	0.000000	928	298.720000
929	0.000000	929	223.478540
930	0.000000	930	147.440000
931	3.272920	931	0.000000
932	0.000000	932	19.441460
933	0.000000	933	357.721460
934	0.000000	934	55.401460
935	0.000000	935	74.280000
936	0.000000	936	227.641460
937	0.000000	937	44.520000
938	0.000000	938	96.201460
939	2.356500	939	0.000000
940	0.000000	940	100.041460
941	0.000000	941	417.241460
942	0.000000	942	41.761460
943	0.000000	943	354.520000

Coordenada x	Valor x	Coordenada z	Valor z
944	0.000000	944	300.801460
945	0.000000	945	199.520000
946	0.000000	946	206.561460
947	1.832840	947	0.000000
948	0.000000	948	96.321460
949	0.000000	949	404.841460
950	0.000000	950	57.881460
951	0.000000	951	256.560000
952	0.000000	952	264.841460
953	0.000000	953	110.240000
954	0.000000	954	192.921460
955	0.785501	955	0.000000
956	0.000000	956	20.681460
957	0.000000	957	403.601460
958	0.000000	958	122.361460
959	0.000000	959	271.440000
960	0.000000	960	248.721460
961	0.000000	961	148.680000
962	0.000000	962	311.961460
963	-0.000000	963	0.000000
964	0.000000	964	143.441460
965	0.000000	965	407.321460
966	0.000000	966	164.521460
967	0.000000	967	237.960000
968	0.000000	968	334.281460
969	0.000000	969	209.041460
970	0.000000	970	417.038540
971	0.916418	971	0.000000
972	0.000000	972	885.120000
973	0.000000	973	357.120000
974	0.000000	974	1043.118540
975	0.000000	975	541.760000
976	0.000000	976	635.278540
977	0.916418	977	0.000000
978	0.000000	978	1035.160000
979	0.000000	979	624.960000
980	0.000000	980	1234.078540
981	0.000000	981	781.080000
982	0.000000	982	501.358540
983	0.785501	983	0.000000
984	0.000000	984	963.240000
985	0.000000	985	535.680000
986	0.000000	986	1136.118540
987	0.000000	987	688.080000
988	0.000000	988	502.598540
989	0.261834	989	0.000000
990	0.000000	990	838.000000
991	0.000000	991	631.160000
992	0.000000	992	1351.878540

Coordenada x	Valor x	Coordenada z	Valor z
993	0.000000	993	843.080000
994	0.000000	994	656.358540
995	0.654584	995	0.000000
996	0.000000	996	997.960000
997	0.000000	997	753.920000
998	0.000000	998	1201.838540
999	0.000000	999	949.720000
1000	3.272920	1000	0.000000
1001	0.000000	1001	481.721460
1002	0.000000	1002	95.081460
1003	0.000000	1003	587.640000
1004	0.000000	1004	127.201460
1005	0.000000	1005	652.120000
1006	0.000000	1006	261.121460
1007	0.000000	1007	316.598540
1008	0.392751	1008	0.000000
1009	0.000000	1009	731.360000
1010	0.000000	1010	290.160000
1011	0.000000	1011	947.638540
1012	0.000000	1012	441.320000
1013	0.000000	1013	293.038540
1014	1.047330	1014	0.000000
1015	0.000000	1015	606.120000
1016	0.000000	1016	370.760000
1017	0.000000	1017	921.598540
1018	0.000000	1018	375.600000
1019	0.000000	1019	580.200000
1020	0.000000	1020	681.158540
1021	0.523667	1021	0.000000
1022	0.000000	1022	1086.000000
1023	0.000000	1023	786.160000
1024	0.000000	1024	1323.358540
1025	0.000000	1025	915.000000
1026	0.523667	1026	0.000000
1027	0.000000	1027	337.678540
1028	0.392751	1028	0.000000
1029	0.000000	1029	642.080000
1030	0.000000	1030	540.640000
1031	0.000000	1031	958.798540
1032	0.000000	1032	425.200000
1033	0.000000	1033	874.080000
1034	0.000000	1034	464.158540
1035	3.534750	1035	0.000000
1036	0.000000	1036	873.960000
1037	0.000000	1037	416.640000
1038	0.000000	1038	1031.958540
1039	0.000000	1039	467.360000
1040	0.000000	1040	657.598540
1041	2.094670	1041	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
1042	0.000000	1042	1062.440000
1043	0.000000	1043	558.000000
1044	0.000000	1044	1216.718540
1045	0.000000	1045	809.600000
1046	0.000000	1046	815.078540
1047	0.392751	1047	0.000000
1048	0.000000	1048	1162.880000
1049	0.000000	1049	815.920000
1050	0.000000	1050	949.720000
1051	0.000000	1051	165.318540
1052	0.654584	1052	0.000000
1053	0.000000	1053	691.680000
1054	0.000000	1054	230.640000
1055	0.000000	1055	811.238540
1056	0.000000	1056	215.640000
1057	0.000000	1057	575.758540
1058	1.047330	1058	0.000000
1059	0.000000	1059	1043.840000
1060	0.000000	1060	724.160000
1061	0.000000	1061	1689.158540
1062	0.000000	1062	970.800000
1063	0.000000	1063	151.678540
1064	0.000000	1064	314.960000
1065	0.000000	1065	647.040000
1066	-0.000000	1066	0.000000
1067	0.000000	1067	775.278540
1068	0.000000	1068	427.680000
1069	0.000000	1069	400.918540
1070	1.309170	1070	0.000000
1071	0.000000	1071	852.880000
1072	0.000000	1072	477.400000
1073	0.000000	1073	1044.358540
1074	0.000000	1074	590.120000
1075	0.000000	1075	650.880000
1076	0.000000	1076	601.987595
1077	0.000000	1077	601.160000
1078	0.000000	1078	629.680000
1079	0.000000	1079	784.680000
1080	0.000000	1080	451.120000
1081	0.000000	1081	552.800000
1082	0.000000	1082	432.052405
1083	0.000000	1083	743.172405
1084	0.000000	1084	896.932405
1085	0.000000	1085	1175.932405
1086	0.000000	1086	529.892405
1087	0.000000	1087	787.812405
1088	-0.000000	1088	0.000000
1089	0.000000	1089	439.667595
1090	0.000000	1090	445.040000

Coordenada x	Valor x	Coordenada z	Valor z
1091	0.000000	1091	461.160000
1092	0.000000	1092	24.680000
1093	0.000000	1093	309.880000
1094	-0.000000	1094	0.000000
1095	0.000000	1095	563.667595
1096	0.000000	1096	467.360000
1097	0.000000	1097	592.600000
1098	0.000000	1098	304.920000
1099	0.000000	1099	442.560000
1100	0.000000	1100	153.640000
1101	-0.000000	1101	0.000000
1102	0.000000	1102	460.747595
1103	0.000000	1103	399.160000
1104	0.000000	1104	312.360000
1105	0.000000	1105	286.320000
1106	0.000000	1106	404.120000
1107	0.000000	1107	298.720000
1108	0.000000	1108	5501.727081
1109	0.000000	1109	5927.754677
1110	0.000000	1110	5900.887081
1111	0.000000	1111	5820.287081
1112	0.000000	1112	5980.247081
1113	0.000000	1113	5727.287081
1114	0.000000	1114	5827.727081
1115	0.000000	1115	5739.687081
1116	0.471548	1116	0.000000
1117	0.000000	1117	491.747595
1118	0.000000	1118	509.520000
1119	0.000000	1119	524.400000
1120	0.000000	1120	670.720000
1121	0.000000	1121	345.840000
1122	0.000000	1122	586.400000
1123	0.000000	1123	463.640000
1124	0.404184	1124	0.000000
1125	0.000000	1125	540.107595
1126	0.000000	1126	474.800000
1127	0.000000	1127	518.200000
1128	0.000000	1128	556.640000
1129	0.000000	1129	340.880000
1130	0.000000	1130	447.520000
1131	0.134728	1131	0.000000
1132	0.000000	1132	459.507595
1133	0.000000	1133	419.000000
1134	0.000000	1134	436.360000
1135	0.000000	1135	538.040000
1136	0.000000	1136	396.680000
1137	0.000000	1137	366.920000
1138	1.482010	1138	0.000000
1139	0.000000	1139	45.347595

Coordenada x	Valor x	Coordenada z	Valor z
1140	0.000000	1140	373.120000
1141	0.000000	1141	432.640000
1142	0.000000	1142	583.920000
1143	0.000000	1143	189.600000
1144	0.000000	1144	369.400000
1145	0.067364	1145	0.000000
1146	0.000000	1146	638.067595
1147	0.000000	1147	557.880000
1148	0.000000	1148	334.680000
1149	0.000000	1149	704.200000
1150	0.000000	1150	328.480000
1151	0.000000	1151	292.520000
1152	0.067364	1152	0.000000
1153	0.000000	1153	466.947595
1154	0.000000	1154	453.720000
1155	0.000000	1155	432.640000
1156	0.000000	1156	634.760000
1157	0.000000	1157	287.560000
1158	0.000000	1158	369.400000
1159	0.000000	1159	5431.047081
1160	0.000000	1160	5921.554677
1161	0.000000	1161	5879.807081
1162	0.000000	1162	5795.487081
1163	0.000000	1163	6104.247081
1164	0.000000	1164	5704.967081
1165	0.000000	1165	5708.687081
1166	0.000000	1166	22.852405
1167	7.948950	1167	0.000000
1168	0.000000	1168	319.092405
1169	0.000000	1169	531.132405
1170	0.000000	1170	553.452405
1171	0.000000	1171	97.132405
1172	0.000000	1172	407.132405
1173	0.202092	1173	0.000000
1174	0.000000	1174	306.987595
1175	0.000000	1175	467.360000
1176	0.000000	1176	453.720000
1177	0.000000	1177	612.440000
1178	0.000000	1178	183.400000
1179	0.000000	1179	355.760000
1180	0.000000	1180	5442.207081
1181	0.000000	1181	6036.874677
1182	0.000000	1182	5976.527081
1183	0.000000	1183	5619.407081
1184	0.000000	1184	6037.287081
1185	0.000000	1185	5945.527081
1186	0.000000	1186	5585.927081
1187	0.000000	1187	5471.967081
1188	0.000000	1188	5858.314677

Coordenada x	Valor x	Coordenada z	Valor z
1189	0.000000	1189	5971.567081
1190	0.000000	1190	5739.687081
1191	0.000000	1191	6172.447081
1192	0.000000	1192	5908.327081
1193	0.000000	1193	5680.167081
1194	0.000000	1194	5562.487081
1195	0.000000	1195	6262.554677
1196	0.000000	1196	6029.847081
1197	0.000000	1197	5745.887081
1198	0.000000	1198	5925.687081
1199	0.000000	1199	5899.647081
1200	0.000000	1200	5675.207081
1201	0.000000	1201	5509.167081
1202	0.000000	1202	6257.594677
1203	0.000000	1203	6005.047081
1204	0.000000	1204	5688.847081
1205	0.000000	1205	6028.607081
1206	0.000000	1206	5708.687081
1207	0.134728	1207	0.000000
1208	0.000000	1208	112.307595
1209	0.000000	1209	435.120000
1210	0.000000	1210	190.840000
1211	0.000000	1211	595.080000
1212	0.000000	1212	194.560000
1213	0.000000	1213	5562.487081
1214	0.000000	1214	6127.394677
1215	0.000000	1215	6007.527081
1216	0.000000	1216	5826.487081
1217	0.000000	1217	5889.727081
1218	0.000000	1218	5856.247081
1219	0.000000	1219	5724.807081
1220	0.000000	1220	5545.127081
1221	0.000000	1221	6081.514677
1222	0.000000	1222	5992.647081
1223	0.000000	1223	5755.807081
1224	0.000000	1224	5873.607081
1225	0.000000	1225	5724.807081
1226	0.000000	1226	7035.607081
1227	0.000000	1227	5734.847081
1228	0.000000	1228	5940.154677
1229	0.000000	1229	6270.407081
1230	0.000000	1230	5980.247081
1231	0.000000	1231	6369.607081
1232	0.000000	1232	5971.567081
1233	0.000000	1233	5930.647081
1234	0.000000	1234	5883.527081
1235	0.875732	1235	0.000000
1236	0.000000	1236	217.707595
1237	0.000000	1237	450.000000

Coordenada x	Valor x	Coordenada z	Valor z
1238	0.000000	1238	419.000000
1239	0.000000	1239	591.360000
1240	0.000000	1240	259.040000
1241	0.000000	1241	319.800000
1242	0.000000	1242	5556.287081
1243	0.000000	1243	6116.234677
1244	0.000000	1244	6003.807081
1245	0.000000	1245	5914.527081
1246	0.000000	1246	5794.247081
1247	0.000000	1247	5795.487081
1248	0.000000	1248	5712.407081
1249	0.000000	1249	5867.407081
1250	0.134728	1250	0.000000
1251	0.000000	1251	454.547595
1252	0.000000	1252	404.120000
1253	0.000000	1253	264.000000
1254	0.000000	1254	669.480000
1255	0.000000	1255	264.000000
1256	0.000000	1256	199.520000
1257	0.000000	1257	5832.807081
1258	0.000000	1258	5951.314677
1259	0.000000	1259	6285.287081
1260	0.000000	1260	5925.687081
1261	0.000000	1261	6220.807081
1262	0.000000	1262	6026.127081
1263	0.269456	1263	0.000000
1264	0.000000	1264	453.307595
1265	0.000000	1265	380.560000
1266	0.000000	1266	469.840000
1267	0.000000	1267	655.840000
1268	0.000000	1268	218.120000
1269	0.000000	1269	436.360000
1270	0.000000	1270	5625.727081
1271	0.000000	1271	6003.394677
1272	0.000000	1272	6161.287081
1273	0.000000	1273	5743.407081
1274	0.000000	1274	6153.847081
1275	0.000000	1275	5775.647081
1276	0.269456	1276	0.000000
1277	0.000000	1277	40.387595
1278	0.000000	1278	443.800000
1279	0.000000	1279	234.240000
1280	0.000000	1280	583.920000
1281	0.000000	1281	158.600000
1282	0.000000	1282	5733.607081
1283	0.000000	1283	6222.874677
1284	0.000000	1284	6260.487081
1285	0.000000	1285	5810.367081
1286	0.000000	1286	6214.607081

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Coordenada x	Valor x	Coordenada z	Valor z
1287	0.000000	1287	5878.567081
1288	0.000000	1288	5826.607081
1289	0.000000	1289	5962.474677
1290	0.000000	1290	6104.247081
1291	0.000000	1291	5700.007081
1292	0.000000	1292	6202.207081
1293	0.000000	1293	5843.847081
1294	0.875732	1294	0.000000
1295	0.000000	1295	457.027595
1296	0.000000	1296	259.040000
1297	0.000000	1297	498.360000
1298	0.000000	1298	587.640000
1299	0.000000	1299	99.080000
1300	0.000000	1300	441.320000
1301	0.875732	1301	0.000000
1302	0.000000	1302	465.707595
1303	0.000000	1303	463.640000
1304	0.000000	1304	556.640000
1305	0.000000	1305	524.400000
1306	0.000000	1306	343.360000
1307	0.000000	1307	495.880000
1308	0.134728	1308	0.000000
1309	0.000000	1309	289.627595
1310	0.000000	1310	330.960000
1311	0.000000	1311	507.040000
1312	0.000000	1312	588.880000
1313	0.000000	1313	96.600000
1314	0.000000	1314	423.960000
1315	0.000000	1315	422.720000
1316	0.134728	1316	0.000000
1317	0.000000	1317	414.867595
1318	0.000000	1318	419.000000
1319	0.000000	1319	441.320000
1320	0.000000	1320	783.560000
1321	0.000000	1321	308.640000
1322	0.000000	1322	344.600000
1323	0.336820	1323	0.000000
1324	0.000000	1324	419.827595
1325	0.000000	1325	304.920000
1326	0.000000	1326	457.440000
1327	0.000000	1327	482.240000
1328	0.000000	1328	174.720000
1329	0.000000	1329	432.640000
1330	0.538912	1330	0.000000
1331	0.000000	1331	284.667595
1332	0.000000	1332	324.760000
1333	0.000000	1333	452.480000
1334	0.000000	1334	626.080000
1335	0.000000	1335	97.840000

Coordenada x	Valor x	Coordenada z	Valor z
1336	0.000000	1336	425.200000
1337	0.067364	1337	0.000000
1338	0.000000	1338	557.467595
1339	0.000000	1339	468.600000
1340	0.000000	1340	423.960000
1341	0.000000	1341	748.840000
1342	0.000000	1342	304.920000
1343	0.000000	1343	374.360000
1344	3.705020	1344	0.000000
1345	0.000000	1345	448.347595
1346	0.000000	1346	215.640000
1347	0.000000	1347	463.640000
1348	0.000000	1348	535.560000
1349	0.000000	1349	143.720000
1350	0.000000	1350	426.440000
1351	0.000000	1351	436.360000
1352	1.549370	1352	0.000000
1353	0.000000	1353	428.507595
1354	0.000000	1354	343.360000
1355	0.000000	1355	483.480000
1356	0.000000	1356	600.040000
1357	0.000000	1357	130.080000
1358	0.000000	1358	469.840000
1359	0.404184	1359	0.000000
1360	0.000000	1360	483.067595
1361	0.000000	1361	368.160000
1362	0.000000	1362	442.560000
1363	0.000000	1363	489.680000
1364	0.000000	1364	240.440000
1365	0.000000	1365	355.760000
1366	0.000000	1366	462.400000
1367	3.031380	1367	0.000000
1368	0.000000	1368	190.427595
1369	0.000000	1369	352.040000
1370	0.000000	1370	544.240000
1371	0.000000	1371	642.200000
1372	0.000000	1372	231.760000
1373	0.000000	1373	549.200000
1374	0.404184	1374	0.000000
1375	0.000000	1375	481.827595
1376	0.000000	1376	442.560000
1377	0.000000	1377	497.120000
1378	0.000000	1378	565.320000
1379	0.000000	1379	260.280000
1380	0.000000	1380	463.640000
1381	0.067364	1381	0.000000
1382	0.000000	1382	458.267595
1383	0.000000	1383	433.880000
1384	0.000000	1384	461.160000

Coordenada x	Valor x	Coordenada z	Valor z
1385	0.000000	1385	601.280000
1386	0.000000	1386	241.680000
1387	0.000000	1387	421.480000
1388	0.000000	1388	5662.927081
1389	0.000000	1389	6074.074677
1390	0.000000	1390	6048.447081
1391	0.000000	1391	6021.167081
1392	0.000000	1392	5856.247081
1393	0.000000	1393	5890.967081
1394	0.000000	1394	5745.887081
1395	0.000000	1395	6058.367081
1396	0.000000	1396	5553.807081
1397	0.000000	1397	6169.554677
1398	0.000000	1398	5941.807081
1399	0.000000	1399	6001.327081
1400	0.000000	1400	5959.167081
1401	0.000000	1401	5749.607081
1402	0.000000	1402	6055.887081
1403	0.000000	1403	5666.647081
1404	0.000000	1404	6092.674677
1405	0.000000	1405	6059.607081
1406	0.000000	1406	5967.847081
1407	0.000000	1407	5820.287081
1408	0.000000	1408	5702.487081
1409	0.000000	1409	6083.167081
1410	-0.000000	1410	0.000000
1411	0.000000	1411	388.827595
1412	0.000000	1412	344.600000
1413	0.000000	1413	554.160000
1414	0.000000	1414	639.720000
1415	0.000000	1415	472.320000
1416	0.000000	1416	5700.127081
1417	0.000000	1417	6199.314677
1418	0.000000	1418	6039.767081
1419	0.000000	1419	6059.607081
1420	0.000000	1420	5895.927081
1421	0.000000	1421	5917.007081
1422	0.000000	1422	5760.767081
1423	0.000000	1423	6052.167081
1424	0.067364	1424	0.000000
1425	0.000000	1425	478.107595
1426	0.000000	1426	421.480000
1427	0.000000	1427	489.680000
1428	0.000000	1428	447.520000
1429	0.000000	1429	239.200000
1430	0.000000	1430	566.560000
1431	0.134728	1431	0.000000
1432	0.000000	1432	404.947595
1433	0.000000	1433	385.520000

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Coordenada x	Valor x	Coordenada z	Valor z
1434	0.000000	1434	313.600000
1435	0.000000	1435	259.040000
1436	0.000000	1436	231.760000
1437	0.000000	1437	112.720000
1438	0.000000	1438	317.320000
1439	0.000000	1439	5738.567081
1440	0.000000	1440	6128.634677
1441	0.000000	1441	6014.967081
1442	0.000000	1442	6001.327081
1443	0.000000	1443	5836.407081
1444	0.000000	1444	5892.207081
1445	0.000000	1445	5731.007081
1446	0.000000	1446	5995.127081
1447	0.000000	1447	5578.607081
1448	0.000000	1448	6055.474677
1449	0.000000	1449	5996.367081
1450	0.000000	1450	5838.887081
1451	0.000000	1451	5876.087081
1452	0.000000	1452	5867.407081
1453	0.000000	1453	5763.247081
1454	0.000000	1454	5838.887081
1455	0.067364	1455	0.000000
1456	0.000000	1456	437.187595
1457	0.000000	1457	361.960000
1458	0.000000	1458	354.520000
1459	0.000000	1459	74.280000
1460	0.000000	1460	256.560000
1461	0.000000	1461	44.520000
1462	0.000000	1462	247.880000
1463	0.000000	1463	5510.407081
1464	0.000000	1464	6028.194677
1465	0.000000	1465	5931.887081
1466	0.000000	1466	5851.287081
1467	0.000000	1467	5864.927081
1468	0.000000	1468	5840.127081
1469	0.000000	1469	5709.927081
1470	0.000000	1470	5868.647081
1471	0.000000	1471	5578.607081
1472	0.000000	1472	6092.674677
1473	0.000000	1473	5987.687081
1474	0.000000	1474	5935.607081
1475	0.000000	1475	5835.167081
1476	0.000000	1476	5872.367081
1477	0.000000	1477	5688.847081
1478	0.000000	1478	5923.207081
1479	0.000000	1479	5584.807081
1480	0.000000	1480	6023.234677
1481	0.000000	1481	5992.647081
1482	0.000000	1482	6006.287081

Coordenada x	Valor x	Coordenada z	Valor z
1483	0.000000	1483	5856.247081
1484	0.000000	1484	5862.447081
1485	0.000000	1485	5733.487081
1486	0.000000	1486	6048.447081
1487	-0.000000	1487	0.000000
1488	0.000000	1488	561.187595
1489	0.000000	1489	411.560000
1490	0.000000	1490	463.640000
1491	0.000000	1491	237.960000
1492	0.000000	1492	363.200000
1493	0.000000	1493	360.720000
1494	0.134728	1494	0.000000
1495	0.000000	1495	0.707595
1496	0.000000	1496	472.320000
1497	0.000000	1497	239.200000
1498	0.000000	1498	626.080000
1499	0.000000	1499	276.400000
1500	0.000000	1500	217.532405
1501	1.347280	1501	0.000000
1502	0.000000	1502	621.652405
1503	0.000000	1503	506.332405
1504	0.000000	1504	816.332405
1505	0.000000	1505	515.012405
1506	0.000000	1506	83.612405
1507	0.404184	1507	0.000000
1508	0.000000	1508	549.732405
1509	0.000000	1509	417.052405
1510	0.000000	1510	718.372405
1511	0.000000	1511	422.012405
1512	0.000000	1512	84.852405
1513	1.751460	1513	0.000000
1514	0.000000	1514	424.492405
1515	0.000000	1515	512.532405
1516	0.000000	1516	934.132405
1517	0.000000	1517	577.012405
1518	0.000000	1518	238.612405
1519	1.886190	1519	0.000000
1520	0.000000	1520	584.452405
1521	0.000000	1521	635.292405
1522	0.000000	1522	784.092405
1523	0.000000	1523	683.652405
1524	5.725940	1524	0.000000
1525	0.000000	1525	485.960000
1526	0.000000	1526	394.200000
1527	0.000000	1527	587.640000
1528	0.000000	1528	156.120000
1529	0.000000	1529	652.120000
1530	0.000000	1530	412.800000
1531	0.673640	1531	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
1532	0.000000	1532	101.147595
1533	0.000000	1533	419.000000
1534	0.000000	1534	272.680000
1535	0.000000	1535	631.040000
1536	0.000000	1536	276.400000
1537	3.705020	1537	0.000000
1538	0.000000	1538	124.707595
1539	0.000000	1539	317.320000
1540	0.000000	1540	376.840000
1541	0.000000	1541	628.560000
1542	0.000000	1542	111.480000
1543	0.000000	1543	438.840000
1544	0.000000	1544	263.412405
1545	1.953560	1545	0.000000
1546	0.000000	1546	672.492405
1547	0.000000	1547	667.532405
1548	0.000000	1548	905.612405
1549	0.000000	1549	648.932405
1550	0.269456	1550	0.000000
1551	1.616740	1551	0.000000
1552	0.000000	1552	80.067595
1553	0.000000	1553	308.640000
1554	0.000000	1554	502.080000
1555	0.000000	1555	621.120000
1556	0.000000	1556	116.440000
1557	0.000000	1557	688.080000
1558	0.000000	1558	46.412405
1559	1.414640	1559	0.000000
1560	0.000000	1560	460.452405
1561	0.000000	1561	298.012405
1562	0.000000	1562	614.212405
1563	0.000000	1563	201.292405
1564	0.000000	1564	239.852405
1565	2.223010	1565	0.000000
1566	0.000000	1566	648.932405
1567	0.000000	1567	439.372405
1568	0.000000	1568	798.972405
1569	0.000000	1569	543.532405
1570	0.000000	1570	397.332405
1571	3.166110	1571	0.000000
1572	0.000000	1572	749.372405
1573	0.000000	1573	697.292405
1574	0.000000	1574	683.652405
1575	0.000000	1575	5648.047081
1576	0.000000	1576	5900.474677
1577	0.000000	1577	6178.647081
1578	0.000000	1578	6012.487081
1579	0.000000	1579	6293.967081
1580	0.000000	1580	5850.047081

Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	158.012405
1582	11.856100	1582	0.000000
1583	0.000000	1583	630.332405
1584	0.000000	1584	605.532405
1585	0.000000	1585	1271.412405
1586	0.000000	1586	704.732405
1587	-0.000000	1587	0.000000
1588	0.000000	1588	581.027595
1589	0.000000	1589	499.600000
1590	0.000000	1590	147.440000
1591	0.000000	1591	623.600000
1592	0.000000	1592	304.920000
1593	1.347280	1593	0.000000
1594	0.000000	1594	16.827595
1595	0.000000	1595	456.200000
1596	0.000000	1596	375.600000
1597	0.000000	1597	643.440000
1598	0.000000	1598	218.120000
1599	0.000000	1599	401.640000
1600	0.000000	1600	655.990000
1601	0.000000	1601	180.280000
1602	-0.000000	1602	0.000000
1603	-0.000000	1603	0.000000
1604	-0.000000	1604	0.000000
1605	-0.000000	1605	0.000000
1606	0.000000	1606	325.720000
1607	0.000000	1607	231.790000
1608	0.000000	1608	153.520000
1609	0.000000	1609	254.520000
1610	-0.000000	1610	0.000000
1611	0.000000	1611	127.260000
1612	0.000000	1612	385.310000
1613	0.000000	1613	871.120000
1614	0.000000	1614	196.950000
1615	0.000000	1615	83.830000
1616	-0.000000	1616	0.000000
1617	0.000000	1617	149.480000
1618	0.000000	1618	588.820000
1619	0.000000	1619	1175.630000
1620	0.000000	1620	622.150000
1621	0.000000	1621	394.400000
1622	0.000000	1622	431.770000
1623	-0.000000	1623	0.000000
1624	0.000000	1624	225.730000
1625	0.000000	1625	715.070000
1626	0.000000	1626	1218.050000
1627	0.000000	1627	692.850000
1628	0.000000	1628	418.640000
1629	0.000000	1629	542.870000

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Coordenada x	Valor x	Coordenada z	Valor z
1630	0.000000	1630	94.940000
1631	0.000000	1631	470.150000
1632	0.000000	1632	7810.947503
1633	0.000000	1633	8285.647503
1634	0.000000	1634	7788.727503
1635	0.000000	1635	7519.567503
1636	0.000000	1636	7523.607503
1637	0.000000	1637	7589.257503
1638	0.000000	1638	7127.187503
1639	0.000000	1639	7516.537503
1640	0.000000	1640	7631.167503
1641	0.000000	1641	8159.397503
1642	0.000000	1642	7698.837503
1643	0.000000	1643	7507.447503
1644	0.000000	1644	7500.377503
1645	0.000000	1645	7507.447503
1646	0.000000	1646	7159.507503
1647	0.000000	1647	7520.577503
1648	0.000000	1648	7676.617503
1649	0.000000	1649	8244.237503
1650	0.000000	1650	7716.007503
1651	0.000000	1651	7547.847503
1652	0.000000	1652	7452.907503
1653	0.000000	1653	7548.857503
1654	0.000000	1654	7552.897503
1655	0.000000	1655	7749.337503
1656	0.000000	1656	8251.307503
1657	0.000000	1657	7743.277503
1658	0.000000	1658	7553.907503
1659	0.000000	1659	7510.477503
1660	0.000000	1660	7123.147503
1661	0.000000	1661	7559.967503
1662	0.000000	1662	7859.427503
1663	0.000000	1663	8024.057503
1664	0.000000	1664	7815.997503
1665	0.000000	1665	7660.967503
1666	0.000000	1666	7657.937503
1667	0.000000	1667	7608.447503
1668	0.000000	1668	7672.077503
1669	0.000000	1669	7717.017503
1670	0.000000	1670	8364.427503
1671	0.000000	1671	7824.077503
1672	0.000000	1672	7438.767503
1673	0.000000	1673	7613.497503
1674	0.000000	1674	7579.157503
1675	0.000000	1675	7467.047503
1676	0.000000	1676	7698.837503
1677	0.000000	1677	8206.867503
1678	0.000000	1678	7721.057503

Coordenada x	Valor x	Coordenada z	Valor z
1679	0.000000	1679	7500.377503
1680	0.000000	1680	7538.757503
1681	0.000000	1681	7527.647503
1682	0.000000	1682	7511.487503
1683	0.000000	1683	7753.377503
1684	0.000000	1684	8280.597503
1685	0.000000	1685	7771.557503
1686	0.000000	1686	7499.367503
1687	0.000000	1687	7624.607503
1688	0.000000	1688	7571.077503
1689	0.000000	1689	7491.287503
1690	0.000000	1690	7915.987503
1691	0.000000	1691	8025.067503
1692	0.000000	1692	7809.937503
1693	0.000000	1693	7779.137503
1694	0.000000	1694	7671.067503
1695	0.000000	1695	7571.077503
1696	0.000000	1696	7740.757503
1697	0.000000	1697	7769.537503
1698	0.000000	1698	8147.277503
1699	0.000000	1699	7802.867503
1700	0.000000	1700	7588.247503
1701	0.000000	1701	7591.277503
1702	0.000000	1702	7513.507503
1703	0.000000	1703	7571.077503
1704	0.000000	1704	7762.467503
1705	0.000000	1705	8374.527503
1706	0.000000	1706	7850.337503
1707	0.000000	1707	7355.947503
1708	0.000000	1708	7570.067503
1709	0.000000	1709	7223.137503
1710	0.000000	1710	7391.297503
1711	0.000000	1711	7786.707503
1712	0.000000	1712	8229.087503
1713	0.000000	1713	7846.297503
1714	0.000000	1714	7453.917503
1715	0.000000	1715	7680.157503
1716	0.000000	1716	7736.717503
1717	0.000000	1717	7468.057503
1718	0.000000	1718	7860.437503
1719	0.000000	1719	8558.347503
1720	0.000000	1720	7893.767503
1721	0.000000	1721	7458.967503
1722	0.000000	1722	7479.167503
1723	0.000000	1723	7729.647503
1724	0.000000	1724	7464.017503
1725	0.000000	1725	7817.007503
1726	0.000000	1726	8554.307503
1727	0.000000	1727	7873.567503

Coordenada x	Valor x	Coordenada z	Valor z
1728	0.000000	1728	7412.507503
1729	0.000000	1729	7562.997503
1730	0.000000	1730	7491.287503
1731	0.000000	1731	8016.987503
1732	0.000000	1732	8236.157503
1733	0.000000	1733	8024.057503
1734	0.000000	1734	7621.577503
1735	0.000000	1735	7824.587503
1736	0.000000	1736	7687.227503
1737	0.000000	1737	7860.437503
1738	0.000000	1738	8448.257503
1739	0.000000	1739	7875.587503
1740	0.000000	1740	7524.617503
1741	0.000000	1741	7449.877503
1742	0.000000	1742	7694.297503
1743	0.000000	1743	7504.417503
1744	0.000000	1744	7846.297503
1745	0.000000	1745	8410.887503
1746	0.000000	1746	7863.467503
1747	0.000000	1747	7467.047503
1748	0.000000	1748	7436.747503
1749	0.000000	1749	7504.417503
1750	0.000000	1750	9060.317503
1751	0.000000	1751	8000.827503
1752	0.000000	1752	8295.747503
1753	0.000000	1753	8089.707503
1754	0.000000	1754	7649.857503
1755	0.000000	1755	7840.747503
1756	0.000000	1756	7788.227503
1757	0.000000	1757	7672.077503
1758	0.000000	1758	7571.077503
1759	0.000000	1759	7846.297503
1760	0.000000	1760	8151.317503
1761	0.000000	1761	7865.487503
1762	0.000000	1762	7636.727503
1763	0.000000	1763	7650.867503
1764	0.000000	1764	7651.877503
1765	0.000000	1765	7618.547503
1766	0.000000	1766	7855.387503
1767	0.000000	1767	8439.167503
1768	0.000000	1768	7872.557503
1769	0.000000	1769	7596.327503
1770	0.000000	1770	7372.107503
1771	0.000000	1771	7644.807503
1772	0.000000	1772	7033.257503
1773	0.000000	1773	7620.567503
1774	0.000000	1774	7835.187503
1775	0.000000	1775	8333.117503
1776	0.000000	1776	7817.007503

Coordenada x	Valor x	Coordenada z	Valor z
1777	0.000000	1777	7499.367503
1778	0.000000	1778	7703.387503
1779	0.000000	1779	7644.807503
1780	0.000000	1780	7509.467503
1781	0.000000	1781	8080.617503
1782	0.000000	1782	8304.837503
1783	0.000000	1783	8101.827503
1784	0.000000	1784	7605.417503
1785	0.000000	1785	7719.547503
1786	0.000000	1786	7749.847503
1787	0.000000	1787	7722.067503
1788	0.000000	1788	8218.987503
1789	0.000000	1789	7684.697503
1790	0.000000	1790	7553.907503
1791	0.000000	1791	7579.157503
1792	0.000000	1792	7494.317503
1793	0.000000	1793	7589.257503
1794	0.000000	1794	7911.947503
1795	0.000000	1795	8347.257503
1796	0.000000	1796	8000.827503
1797	0.000000	1797	7456.947503
1798	0.000000	1798	7665.007503
1799	0.000000	1799	7545.827503
1800	0.000000	1800	8107.887503
1801	0.000000	1801	8268.477503
1802	0.000000	1802	8122.027503
1803	0.000000	1803	7747.827503
1804	0.000000	1804	7906.397503
1805	0.000000	1805	7748.837503
1806	0.000000	1806	7999.817503
1807	0.000000	1807	8526.027503
1808	0.000000	1808	8081.627503
1809	0.000000	1809	7511.487503
1810	0.000000	1810	7714.497503
1811	0.000000	1811	7629.657503
1812	0.000000	1812	8075.567503
1813	0.000000	1813	8313.927503
1814	0.000000	1814	7954.367503
1815	0.000000	1815	7421.597503
1816	0.000000	1816	7704.397503
1817	0.000000	1817	7601.377503
1818	0.000000	1818	7817.007503
1819	0.000000	1819	8316.957503
1820	0.000000	1820	7680.657503
1821	0.000000	1821	7672.077503
1822	0.000000	1822	7618.547503
1823	0.000000	1823	7492.297503
1824	0.000000	1824	7688.237503
1825	0.000000	1825	7702.877503

Coordenada x	Valor x	Coordenada z	Valor z
1826	0.000000	1826	8209.897503
1827	0.000000	1827	7733.177503
1828	0.000000	1828	7605.417503
1829	0.000000	1829	7452.907503
1830	0.000000	1830	7577.137503
1831	0.000000	1831	7618.547503
1832	0.000000	1832	7747.317503
1833	0.000000	1833	8110.917503
1834	0.000000	1834	7669.547503
1835	0.000000	1835	7609.457503
1836	0.000000	1836	7549.867503
1837	0.000000	1837	7420.587503
1838	0.000000	1838	7143.347503
1839	0.000000	1839	7603.397503
1840	0.000000	1840	7741.257503
1841	0.000000	1841	8206.867503
1842	0.000000	1842	7735.197503
1843	0.000000	1843	7549.867503
1844	0.000000	1844	7702.377503
1845	0.000000	1845	7587.237503
1846	0.000000	1846	7533.707503
1847	0.000000	1847	7776.607503
1848	0.000000	1848	8246.257503
1849	0.000000	1849	7677.627503
1850	0.000000	1850	7598.347503
1851	0.000000	1851	7492.297503
1852	0.000000	1852	7513.507503
1853	0.000000	1853	7640.767503
1854	0.000000	1854	7807.917503
1855	0.000000	1855	8167.477503
1856	0.000000	1856	7725.097503
1857	0.000000	1857	7625.617503
1858	0.000000	1858	7640.767503
1859	0.000000	1859	7482.197503
1860	0.000000	1860	7666.017503
1861	0.000000	1861	7700.857503
1862	0.000000	1862	8282.617503
1863	0.000000	1863	7735.197503
1864	0.000000	1864	7495.327503
1865	0.000000	1865	7633.697503
1866	0.000000	1866	7543.807503
1867	0.000000	1867	7517.547503
1868	0.000000	1868	7770.547503
1869	0.000000	1869	8263.427503
1870	0.000000	1870	7598.847503
1871	0.000000	1871	7597.337503
1872	0.000000	1872	7529.667503
1873	0.000000	1873	7482.197503
1874	0.000000	1874	7168.597503

Coordenada x	Valor x	Coordenada z	Valor z
1875	0.000000	1875	7637.737503
1876	0.000000	1876	7770.547503
1877	0.000000	1877	8247.267503
1878	0.000000	1878	7702.877503
1879	0.000000	1879	7613.497503
1880	0.000000	1880	7582.187503
1881	0.000000	1881	7471.087503
1882	0.000000	1882	7665.007503
1883	0.000000	1883	7783.677503
1884	0.000000	1884	8304.837503
1885	0.000000	1885	7736.207503
1886	0.000000	1886	7593.297503
1887	0.000000	1887	7505.427503
1888	0.000000	1888	7574.107503
1889	0.000000	1889	7124.157503
1890	0.000000	1890	7672.077503
1891	0.000000	1891	7857.407503
1892	0.000000	1892	8140.207503
1893	0.000000	1893	7796.807503
1894	0.000000	1894	7749.847503
1895	0.000000	1895	7703.387503
1896	0.000000	1896	7640.767503
1897	0.000000	1897	7816.507503
1898	0.000000	1898	7721.057503
1899	0.000000	1899	8241.207503
1900	0.000000	1900	7734.187503
1901	0.000000	1901	7575.117503
1902	0.000000	1902	7504.417503
1903	0.000000	1903	7527.647503
1904	0.000000	1904	7610.467503
1905	0.000000	1905	7705.907503
1906	0.000000	1906	8206.867503
1907	0.000000	1907	7711.967503
1908	0.000000	1908	7530.677503
1909	0.000000	1909	7518.557503
1910	0.000000	1910	7497.347503
1911	0.000000	1911	7560.977503
1912	0.000000	1912	7942.247503
1913	0.000000	1913	8404.827503
1914	0.000000	1914	7908.917503
1915	0.000000	1915	7683.187503
1916	0.000000	1916	7422.607503
1917	0.000000	1917	7722.577503
1918	0.000000	1918	7060.527503
1919	0.000000	1919	7776.107503
1920	0.000000	1920	7853.367503
1921	0.000000	1921	8482.597503
1922	0.000000	1922	7822.057503
1923	0.000000	1923	7667.027503

Coordenada x	Valor x	Coordenada z	Valor z
1924	0.000000	1924	7506.437503
1925	0.000000	1925	7063.557503
1926	0.000000	1926	7774.087503
1927	0.000000	1927	7945.277503
1928	0.000000	1928	8419.977503
1929	0.000000	1929	7918.007503
1930	0.000000	1930	7639.757503
1931	0.000000	1931	7393.317503
1932	0.000000	1932	7025.177503
1933	0.000000	1933	7796.307503
1934	0.000000	1934	443.380000
1935	0.000000	1935	887.780000
1936	0.000000	1936	376.720000
1937	0.000000	1937	343.900000
1938	0.000000	1938	287.340000
1939	0.000000	1939	339.860000
1940	0.000000	1940	7972.547503
1941	0.000000	1941	8506.837503
1942	0.000000	1942	7901.847503
1943	0.000000	1943	7714.497503
1944	0.000000	1944	7454.927503
1945	0.000000	1945	7743.787503
1946	0.000000	1946	7072.647503
1947	0.000000	1947	7771.057503
1948	0.000000	1948	7796.807503
1949	0.000000	1949	8313.927503
1950	0.000000	1950	7792.767503
1951	0.000000	1951	7644.807503
1952	0.000000	1952	7484.217503
1953	0.000000	1953	7586.227503
1954	0.000000	1954	7770.047503
1955	0.000000	1955	7890.737503
1956	0.000000	1956	8348.267503
1957	0.000000	1957	7857.407503
1958	0.000000	1958	7595.317503
1959	0.000000	1959	7424.627503
1960	0.000000	1960	7674.097503
1961	0.000000	1961	7033.257503
1962	0.000000	1962	7660.967503
1963	0.000000	1963	8003.857503
1964	0.000000	1964	8449.267503
1965	0.000000	1965	7881.647503
1966	0.000000	1966	7667.027503
1967	0.000000	1967	7406.447503
1968	0.000000	1968	7723.587503
1969	0.000000	1969	7048.407503
1970	0.000000	1970	7724.597503
1971	0.000000	1971	7873.567503
1972	0.000000	1972	8389.677503

Coordenada x	Valor x	Coordenada z	Valor z
1973	0.000000	1973	7866.497503
1974	0.000000	1974	7534.717503
1975	0.000000	1975	7438.767503
1976	0.000000	1976	7703.387503
1977	0.000000	1977	7074.667503
1978	0.000000	1978	7597.337503
1979	0.000000	1979	7906.897503
1980	0.000000	1980	8390.687503
1981	0.000000	1981	7854.377503
1982	0.000000	1982	7644.807503
1983	0.000000	1983	7290.297503
1984	0.000000	1984	7710.457503
1985	0.000000	1985	6993.867503
1986	0.000000	1986	7620.567503
1987	0.000000	1987	7818.017503
1988	0.000000	1988	8367.457503
1989	0.000000	1989	7813.977503
1990	0.000000	1990	7544.817503
1991	0.000000	1991	7429.677503
1992	0.000000	1992	7681.167503
1993	0.000000	1993	7031.237503
1994	0.000000	1994	7621.577503
1995	0.000000	1995	7873.567503
1996	0.000000	1996	8419.977503
1997	0.000000	1997	7859.427503
1998	0.000000	1998	7613.497503
1999	0.000000	1999	7405.437503
2000	0.000000	2000	7707.427503
2001	0.000000	2001	7014.067503
2002	0.000000	2002	7666.017503
2003	0.000000	2003	7878.617503
2004	0.000000	2004	8363.417503
2005	0.000000	2005	7863.467503
2006	0.000000	2006	7671.067503
2007	0.000000	2007	7422.607503
2008	0.000000	2008	7699.347503
2009	0.000000	2009	7050.427503
2010	0.000000	2010	7768.027503
2011	0.000000	2011	987.260000
2012	0.000000	2012	1572.050000
2013	0.000000	2013	975.140000
2014	0.000000	2014	814.050000
2015	0.000000	2015	503.980000
2016	0.000000	2016	877.680000
2017	0.000000	2017	792.840000
2018	0.000000	2018	8046.277503
2019	0.000000	2019	8174.547503
2020	0.000000	2020	8083.647503
2021	0.000000	2021	7690.257503

Coordenada x	Valor x	Coordenada z	Valor z
2022	0.000000	2022	7879.127503
2023	0.000000	2023	7783.177503
2024	0.000000	2024	8175.557503
2025	0.000000	2025	8126.067503
2026	0.000000	2026	8157.377503
2027	0.000000	2027	7859.937503
2028	0.000000	2028	7986.187503
2029	0.000000	2029	7929.627503
2030	0.000000	2030	8039.207503
2031	0.000000	2031	8098.797503
2032	0.000000	2032	8071.527503
2033	0.000000	2033	7759.947503
2034	0.000000	2034	7879.127503
2035	0.000000	2035	7826.607503
2036	0.000000	2036	8209.897503
2037	0.000000	2037	8268.477503
2038	0.000000	2038	8139.197503
2039	0.000000	2039	8007.397503
2040	0.000000	2040	8224.547503
2041	0.000000	2041	8122.537503
2042	0.000000	2042	8154.347503
2043	0.000000	2043	8087.687503
2044	0.000000	2044	8088.697503
2045	0.000000	2045	7926.597503
2046	0.000000	2046	7921.547503
2047	0.000000	2047	8028.607503
2048	0.000000	2048	8054.357503
2049	0.000000	2049	8102.837503
2050	0.000000	2050	7824.587503
2051	0.000000	2051	7855.897503
2052	0.000000	2052	7776.107503
2053	0.000000	2053	7636.227503
2054	0.000000	2054	7902.357503
2055	0.000000	2055	8202.827503
2056	0.000000	2056	8412.907503
2057	0.000000	2057	8196.767503
2058	0.000000	2058	7874.077503
2059	0.000000	2059	8039.717503
2060	0.000000	2060	7939.727503
2061	0.000000	2061	8003.857503
2062	0.000000	2062	8233.127503
2063	0.000000	2063	7914.977503
2064	0.000000	2064	7759.947503
2065	0.000000	2065	7838.727503
2066	0.000000	2066	7689.247503
2067	0.000000	2067	7873.067503
2068	0.000000	2068	8163.437503
2069	0.000000	2069	8076.577503
2070	0.000000	2070	8149.297503

Coordenada x	Valor x	Coordenada z	Valor z
2071	0.000000	2071	7941.747503
2072	0.000000	2072	8009.417503
2073	0.000000	2073	7989.217503
2074	0.000000	2074	8424.017503
2075	0.000000	2075	8076.577503
2076	0.000000	2076	8269.487503
2077	0.000000	2077	7980.627503
2078	0.000000	2078	7934.677503
2079	0.000000	2079	7905.387503
2080	0.000000	2080	7766.007503
2081	0.000000	2081	8148.797503
2082	0.000000	2082	8049.307503
2083	0.000000	2083	8139.197503
2084	0.000000	2084	8039.207503
2085	0.000000	2085	7703.387503
2086	0.000000	2086	7834.687503
2087	0.000000	2087	7687.227503
2088	0.000000	2088	8378.567503
2089	0.000000	2089	8310.897503
2090	0.000000	2090	8364.427503
2091	0.000000	2091	7990.227503
2092	0.000000	2092	8156.877503
2093	0.000000	2093	8137.687503
2094	0.000000	2094	8332.107503
2095	0.000000	2095	8136.167503
2096	0.000000	2096	8271.507503
2097	0.000000	2097	8025.577503
2098	0.000000	2098	8077.087503
2099	0.000000	2099	7930.127503
2100	0.000000	2100	8263.427503
2101	0.000000	2101	8014.967503
2102	0.000000	2102	7676.117503
2103	0.000000	2103	7779.137503
2104	0.000000	2104	7606.427503
2105	0.000000	2105	8197.777503
2106	0.000000	2106	8196.767503
2107	0.000000	2107	8235.147503
2108	0.000000	2108	8011.437503
2109	0.000000	2109	8427.557503
2110	0.000000	2110	8154.857503
2111	0.000000	2111	526.200000
2112	0.000000	2112	1127.150000
2113	0.000000	2113	585.790000
2114	0.000000	2114	95.440000
2115	0.000000	2115	357.030000
2116	0.000000	2116	369.150000
2117	0.000000	2117	7916.997503
2118	0.000000	2118	8058.397503
2119	0.000000	2119	7941.237503

Coordenada x	Valor x	Coordenada z	Valor z
2120	0.000000	2120	7672.077503
2121	0.000000	2121	7763.987503
2122	0.000000	2122	7689.247503
2123	0.000000	2123	7755.907503
2124	0.000000	2124	178.650000
2125	0.000000	2125	676.200000
2126	0.000000	2126	394.841460
2127	0.000000	2127	990.941460
2128	0.000000	2128	469.500000
2129	0.000000	2129	462.941460
2130	0.000000	2130	1171.500000
2131	0.000000	2131	1487.550000
2132	0.000000	2132	1372.841460
2133	0.000000	2133	2133.941460
2134	0.000000	2134	1196.700000
2135	0.000000	2135	1398.041460
2136	0.000000	2136	72.150000
2137	0.000000	2137	60.600000
2138	0.000000	2138	247.091460
2139	0.000000	2139	658.391460
2140	-0.000000	2140	0.000000
2141	0.000000	2141	237.641460
2142	0.000000	2142	313.458540
2143	0.000000	2143	466.908540
2144	0.000000	2144	837.408540
2145	0.000000	2145	1074.600000
2146	0.000000	2146	614.208540
2147	0.000000	2147	876.558540
2148	0.000000	2148	271.050000
2149	0.000000	2149	1.608540
2150	0.000000	2150	18.108540
2151	0.000000	2151	434.808540
2152	-0.000000	2152	0.000000
2153	0.000000	2153	277.608540
2154	0.000000	2154	513.558540
2155	0.000000	2155	152.250000
2156	0.000000	2156	29.700000
2157	0.543284	2157	0.000000
2158	0.000000	2158	462.900000
2159	0.000000	2159	36.341460
2160	0.000000	2160	639.041460
2161	0.000000	2161	224.850000
2162	0.000000	2162	437.700000
2163	0.000000	2163	99.491460
2164	2.580600	2164	0.000000
2165	0.000000	2165	57.750000
2166	0.000000	2166	580.050000
2167	0.000000	2167	280.541460
2168	0.000000	2168	865.091460

Coordenada x	Valor x	Coordenada z	Valor z
2169	0.000000	2169	355.200000
2170	0.000000	2170	754.500000
2171	0.000000	2171	370.091460
2172	2.037310	2172	0.000000
2173	0.000000	2173	122.100000
2174	0.000000	2174	533.850000
2175	0.000000	2175	272.291460
2176	0.000000	2176	713.291460
2177	0.000000	2177	348.600000
2178	0.000000	2178	348.641460
2179	0.814925	2179	0.000000
2180	0.000000	2180	14.850000
2181	0.000000	2181	459.600000
2182	0.000000	2182	163.391460
2183	0.000000	2183	688.541460
2184	0.000000	2184	502.050000
2185	0.000000	2185	241.391460
2186	0.000000	2186	536.250000
2187	2.852240	2187	0.000000
2188	0.000000	2188	934.800000
2189	0.000000	2189	694.691460
2190	0.000000	2190	1285.841460
2191	0.000000	2191	683.550000
2192	0.000000	2192	780.941460
2193	1.086570	2193	0.000000
2194	0.000000	2194	252.450000
2195	0.000000	2195	644.400000
2196	0.000000	2196	28.091460
2197	0.000000	2197	909.641460
2198	0.000000	2198	332.100000
2199	0.000000	2199	142.391460
2200	1.222390	2200	0.000000
2201	0.000000	2201	24.750000
2202	0.000000	2202	505.800000
2203	0.000000	2203	158.441460
2204	0.000000	2204	817.241460
2205	0.000000	2205	277.650000
2206	0.000000	2206	244.691460
2207	1.358210	2207	0.000000
2208	0.000000	2208	56.100000
2209	0.000000	2209	499.200000
2210	0.000000	2210	67.691460
2211	0.000000	2211	868.391460
2212	0.000000	2212	259.500000
2213	0.000000	2213	122.591460
2214	0.000000	2214	627.000000
2215	5.704480	2215	0.000000
2216	0.000000	2216	923.250000
2217	0.000000	2217	886.091460

Coordenada x	Valor x	Coordenada z	Valor z
2218	0.000000	2218	1305.641460
2219	0.000000	2219	620.850000
2220	0.000000	2220	891.491460
2221	0.000000	2221	188.100000
2222	3.123880	2222	0.000000
2223	0.000000	2223	712.050000
2224	0.000000	2224	374.591460
2225	0.000000	2225	975.641460
2226	0.000000	2226	327.150000
2227	0.000000	2227	414.641460
2228	0.000000	2228	181.458540
2229	0.000000	2229	376.158540
2230	0.000000	2230	794.508540
2231	1.494030	2231	0.000000
2232	0.000000	2232	945.900000
2233	0.000000	2233	825.408540
2234	0.000000	2234	125.850000
2235	0.000000	2235	82.500000
2236	1.358210	2236	0.000000
2237	0.000000	2237	649.350000
2238	0.000000	2238	21.491460
2239	0.000000	2239	987.191460
2240	0.000000	2240	558.150000
2241	0.000000	2241	112.691460
2242	0.000000	2242	173.208540
2243	0.000000	2243	508.158540
2244	0.000000	2244	697.158540
2245	1.222390	2245	0.000000
2246	0.000000	2246	629.100000
2247	0.000000	2247	516.858540
2248	0.000000	2248	76.350000
2249	0.000000	2249	178.158540
2250	0.000000	2250	577.458540
2251	0.000000	2251	740.058540
2252	1.358210	2252	0.000000
2253	0.000000	2253	841.950000
2254	0.000000	2254	196.800000
2255	0.000000	2255	447.150000
2256	6.247760	2256	0.000000
2257	0.000000	2257	928.200000
2258	0.000000	2258	283.841460
2259	0.000000	2259	1211.591460
2260	0.000000	2260	459.191460
2261	0.000000	2261	65.958540
2262	0.000000	2262	221.058540
2263	0.000000	2263	560.208540
2264	0.950746	2264	0.000000
2265	0.000000	2265	474.000000
2266	0.000000	2266	351.858540

Coordenada x	Valor x	Coordenada z	Valor z
2267	0.000000	2267	35.100000
2268	0.000000	2268	136.908540
2269	0.000000	2269	254.058540
2270	0.000000	2270	634.458540
2271	1.086570	2271	0.000000
2272	0.000000	2272	546.600000
2273	0.000000	2273	129.150000
2274	0.000000	2274	7407.367081
2275	0.000000	2275	323.400000
2276	2.716420	2276	0.000000
2277	0.000000	2277	938.100000
2278	0.000000	2278	232.691460
2279	0.000000	2279	1140.641460
2280	0.000000	2280	533.400000
2281	0.000000	2281	337.091460
2282	0.407463	2282	0.000000
2283	0.000000	2283	306.900000
2284	1.901490	2284	0.000000
2285	0.000000	2285	807.750000
2286	0.000000	2286	447.191460
2287	0.000000	2287	1066.391460
2288	0.000000	2288	546.600000
2289	0.000000	2289	485.591460
2290	2.173130	2290	0.000000
2291	0.000000	2291	148.500000
2292	0.000000	2292	497.550000
2293	0.000000	2293	59.441460
2294	0.000000	2294	289.241460
2295	0.000000	2295	213.300000
2296	0.000000	2296	181.950000
2297	0.000000	2297	167.141460
2298	0.000000	2298	65.958540
2299	0.000000	2299	74.208540
2300	0.000000	2300	505.758540
2301	1.765670	2301	0.000000
2302	0.000000	2302	929.400000
2303	0.000000	2303	312.258540
2304	0.000000	2304	84.600000
2305	0.000000	2305	438.900000
2306	1.222390	2306	0.000000
2307	0.000000	2307	943.050000
2308	0.000000	2308	145.241460
2309	0.000000	2309	927.791460
2310	0.000000	2310	449.291460
2311	1.494030	2311	0.000000
2312	0.000000	2312	6.600000
2313	0.000000	2313	408.450000
2314	0.000000	2314	207.941460
2315	0.000000	2315	845.291460

Coordenada x	Valor x	Coordenada z	Valor z
2316	0.000000	2316	185.250000
2317	0.000000	2317	333.791460
2318	0.000000	2318	260.658540
2319	0.000000	2319	166.608540
2320	0.000000	2320	875.358540
2321	1.629850	2321	0.000000
2322	0.000000	2322	936.000000
2323	0.000000	2323	213.300000
2324	0.000000	2324	542.850000
2325	3.395520	2325	0.000000
2326	0.000000	2326	1035.450000
2327	0.000000	2327	437.291460
2328	0.000000	2328	1292.441460
2329	0.000000	2329	507.041460
2330	0.000000	2330	315.108540
2331	0.000000	2331	369.558540
2332	0.000000	2332	918.258540
2333	2.037310	2333	0.000000
2334	0.000000	2334	927.750000
2335	0.000000	2335	261.150000
2336	0.000000	2336	585.708540
2337	0.000000	2337	169.908540
2338	0.000000	2338	857.208540
2339	0.814925	2339	0.000000
2340	0.000000	2340	1058.100000
2341	0.000000	2341	361.800000
2342	0.407463	2342	0.000000
2343	0.000000	2343	11.550000
2344	0.000000	2344	246.750000
2345	0.000000	2345	245.891460
2346	0.000000	2346	754.541460
2347	0.000000	2347	26.850000
2348	0.000000	2348	340.391460
2349	3.395520	2349	0.000000
2350	0.000000	2350	23.100000
2351	0.000000	2351	519.000000
2352	0.000000	2352	323.441460
2353	0.000000	2353	670.391460
2354	0.000000	2354	351.900000
2355	0.000000	2355	412.991460
2356	0.000000	2356	211.200000
2357	2.580600	2357	0.000000
2358	0.000000	2358	553.650000
2359	0.000000	2359	468.641460
2360	0.000000	2360	967.391460
2361	0.000000	2361	234.750000
2362	0.000000	2362	749.550000
2363	0.000000	2363	526.841460
2364	0.000000	2364	44.550000

Coordenada x	Valor x	Coordenada z	Valor z
2365	1.086570	2365	0.000000
2366	0.000000	2366	504.150000
2367	0.000000	2367	214.541460
2368	0.000000	2368	1059.791460
2369	0.000000	2369	350.250000
2370	0.000000	2370	256.241460
2371	0.000000	2371	37.950000
2372	2.988060	2372	0.000000
2373	0.000000	2373	345.750000
2374	0.000000	2374	229.391460
2375	0.000000	2375	652.241460
2376	0.000000	2376	165.450000
2377	0.000000	2377	366.791460
2378	0.000000	2378	217.800000
2379	1.494030	2379	0.000000
2380	0.000000	2380	552.000000
2381	0.000000	2381	402.641460
2382	0.000000	2382	1023.491460
2383	0.000000	2383	243.000000
2384	0.000000	2384	536.741460
2385	0.679104	2385	0.000000
2386	0.000000	2386	145.200000
2387	0.000000	2387	525.600000
2388	0.000000	2388	146.891460
2389	0.000000	2389	969.041460
2390	0.000000	2390	300.750000
2391	0.000000	2391	251.291460
2392	3.806896	2392	0.000000
2393	0.267734	2393	0.000000
2394	0.000000	2394	189.000000
2395	0.000000	2395	199.691460
2396	0.000000	2396	685.241460
2397	0.000000	2397	86.250000
2398	0.000000	2398	541.650000
2399	0.000000	2399	333.791460
2400	0.000000	2400	26.400000
2401	0.814925	2401	0.000000
2402	0.000000	2402	385.350000
2403	0.000000	2403	252.491460
2404	0.000000	2404	797.441460
2405	0.000000	2405	94.500000
2406	0.000000	2406	404.741460
2407	3.259700	2407	0.000000
2408	0.000000	2408	46.200000
2409	0.000000	2409	391.950000
2410	0.000000	2410	171.641460
2411	0.000000	2411	624.191460
2412	0.000000	2412	214.950000
2413	0.000000	2413	447.600000

Coordenada x	Valor x	Coordenada z	Valor z
2414	0.000000	2414	368.441460
2415	0.000000	2415	343.200000
2416	4.346270	2416	0.000000
2417	0.000000	2417	713.700000
2418	0.000000	2418	650.141460
2419	0.000000	2419	1170.341460
2420	0.000000	2420	546.600000
2421	0.000000	2421	827.141460
2422	2.037310	2422	0.000000
2423	0.000000	2423	44.550000
2424	0.000000	2424	490.950000
2425	0.000000	2425	244.241460
2426	0.000000	2426	724.841460
2427	0.000000	2427	241.350000
2428	0.000000	2428	370.091460
2429	1.901490	2429	0.000000
2430	0.000000	2430	13.200000
2431	0.000000	2431	479.400000
2432	0.000000	2432	196.391460
2433	0.000000	2433	772.691460
2434	0.000000	2434	216.600000
2435	0.000000	2435	313.991460
2436	0.000000	2436	49.500000
2437	0.543284	2437	0.000000
2438	0.000000	2438	464.550000
2439	0.000000	2439	108.941460
2440	0.000000	2440	279.341460
2441	0.000000	2441	247.950000
2442	0.000000	2442	134.100000
2443	0.000000	2443	328.841460
2444	1.901490	2444	0.000000
2445	0.000000	2445	222.750000
2446	0.000000	2446	418.350000
2447	0.000000	2447	178.241460
2448	0.000000	2448	511.991460
2449	0.000000	2449	234.750000
2450	0.000000	2450	421.241460
2451	0.000000	2451	29.700000
2452	0.407463	2452	0.000000
2453	0.000000	2453	454.650000
2454	0.000000	2454	13.241460
2455	0.000000	2455	206.741460
2456	0.000000	2456	51.600000
2457	0.000000	2457	337.091460
2458	0.000000	2458	79.200000
2459	0.135821	2459	0.000000
2460	0.000000	2460	439.800000
2461	0.000000	2461	399.341460
2462	0.000000	2462	903.041460

Coordenada x	Valor x	Coordenada z	Valor z
2463	0.000000	2463	460.841460
2464	1.222390	2464	0.000000
2465	0.000000	2465	67.650000
2466	0.000000	2466	354.000000
2467	0.000000	2467	61.091460
2468	0.000000	2468	233.141460
2469	0.000000	2469	183.600000
2470	0.000000	2470	54.900000
2471	0.000000	2471	221.591460
2472	0.950746	2472	0.000000
2473	0.000000	2473	39.600000
2474	0.000000	2474	462.900000
2475	0.000000	2475	234.341460
2476	0.000000	2476	568.091460
2477	0.000000	2477	213.300000
2478	0.000000	2478	507.041460
2479	0.000000	2479	57.750000
2480	3.259700	2480	0.000000
2481	0.000000	2481	472.800000
2482	0.000000	2482	57.791460
2483	0.000000	2483	375.041460
2484	0.000000	2484	261.150000
2485	0.000000	2485	181.950000
2486	0.000000	2486	233.141460
2487	0.000000	2487	77.550000
2488	0.950746	2488	0.000000
2489	0.000000	2489	347.400000
2490	0.000000	2490	9.941460
2491	0.000000	2491	180.341460
2492	0.000000	2492	177.000000
2493	0.000000	2493	41.700000
2494	0.000000	2494	172.091460
2495	0.000000	2495	70.908540
2496	0.000000	2496	108.858540
2497	0.000000	2497	528.858540
2498	1.494030	2498	0.000000
2499	0.000000	2499	439.350000
2500	0.000000	2500	350.208540
2501	0.000000	2501	290.808540
2502	0.000000	2502	170.400000
2503	0.000000	2503	14.850000
2504	3.667160	2504	0.000000
2505	0.000000	2505	398.550000
2506	0.000000	2506	69.341460
2507	0.000000	2507	86.291460
2508	0.000000	2508	251.250000
2509	0.000000	2509	48.300000
2510	0.000000	2510	97.841460
2511	2.580600	2511	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
2512	0.000000	2512	92.400000
2513	0.000000	2513	462.900000
2514	0.000000	2514	36.341460
2515	0.000000	2515	444.341460
2516	0.000000	2516	333.750000
2517	0.000000	2517	239.700000
2518	0.000000	2518	229.841460
2519	2.173130	2519	0.000000
2520	0.000000	2520	87.450000
2521	0.000000	2521	446.400000
2522	0.000000	2522	57.791460
2523	0.000000	2523	313.991460
2524	0.000000	2524	285.900000
2525	0.000000	2525	120.900000
2526	0.000000	2526	211.691460
2527	0.000000	2527	13.200000
2528	1.629850	2528	0.000000
2529	0.000000	2529	457.950000
2530	0.000000	2530	156.791460
2531	0.000000	2531	346.991460
2532	0.000000	2532	277.650000
2533	0.000000	2533	185.250000
2534	0.000000	2534	383.291460
2535	-0.000000	2535	0.000000
2536	0.000000	2536	150.150000
2537	0.000000	2537	449.700000
2538	0.000000	2538	199.691460
2539	0.000000	2539	289.241460
2540	0.000000	2540	378.300000
2541	0.000000	2541	233.141460
2542	0.000000	2542	595.650000
2543	1.358210	2543	0.000000
2544	0.000000	2544	1126.200000
2545	0.000000	2545	496.691460
2546	0.000000	2546	1401.341460
2547	0.000000	2547	716.591460
2548	0.000000	2548	886.050000
2549	0.679104	2549	0.000000
2550	0.000000	2550	1325.850000
2551	0.000000	2551	853.091460
2552	0.000000	2552	1655.441460
2553	0.000000	2553	1035.041460
2554	0.000000	2554	707.850000
2555	1.358210	2555	0.000000
2556	0.000000	2556	1230.150000
2557	0.000000	2557	734.291460
2558	0.000000	2558	1525.091460
2559	0.000000	2559	911.291460
2560	0.000000	2560	709.500000

Coordenada x	Valor x	Coordenada z	Valor z
2561	0.407463	2561	0.000000
2562	0.000000	2562	1063.500000
2563	0.000000	2563	861.341460
2564	0.000000	2564	1812.191460
2565	0.000000	2565	1117.541460
2566	0.000000	2566	914.100000
2567	0.679104	2567	0.000000
2568	0.000000	2568	1276.350000
2569	0.000000	2569	1024.691460
2570	0.000000	2570	1612.541460
2571	0.000000	2571	1259.441460
2572	4.210450	2572	0.000000
2573	0.000000	2573	548.700000
2574	0.000000	2574	107.291460
2575	0.000000	2575	754.541460
2576	0.000000	2576	102.750000
2577	0.000000	2577	841.950000
2578	0.000000	2578	302.441460
2579	0.000000	2579	462.000000
2580	0.679104	2580	0.000000
2581	0.000000	2581	921.600000
2582	0.000000	2582	407.591460
2583	0.000000	2583	1274.291460
2584	0.000000	2584	582.941460
2585	0.000000	2585	430.650000
2586	0.950746	2586	0.000000
2587	0.000000	2587	754.950000
2588	0.000000	2588	514.841460
2589	0.000000	2589	1239.641460
2590	0.000000	2590	474.000000
2591	0.000000	2591	767.741460
2592	0.000000	2592	947.100000
2593	0.679104	2593	0.000000
2594	0.000000	2594	1393.500000
2595	0.000000	2595	1067.591460
2596	0.000000	2596	1774.241460
2597	0.000000	2597	1213.241460
2598	0.271642	2598	0.000000
2599	0.000000	2599	490.050000
2600	0.407463	2600	0.000000
2601	0.000000	2601	802.800000
2602	0.000000	2602	740.891460
2603	0.000000	2603	1289.141460
2604	0.000000	2604	540.000000
2605	0.000000	2605	1158.791460
2606	0.000000	2606	658.350000
2607	4.617910	2607	0.000000
2608	0.000000	2608	1111.350000
2609	0.000000	2609	575.891460

Coordenada x	Valor x	Coordenada z	Valor z
2610	0.000000	2610	1386.491460
2611	0.000000	2611	617.591460
2612	0.000000	2612	915.750000
2613	2.037310	2613	0.000000
2614	0.000000	2614	1362.150000
2615	0.000000	2615	763.991460
2616	0.000000	2616	1632.341460
2617	0.000000	2617	1072.991460
2618	0.000000	2618	1125.300000
2619	0.407463	2619	0.000000
2620	0.000000	2620	1495.800000
2621	0.000000	2621	1107.191460
2622	0.000000	2622	1259.441460
2623	0.000000	2623	260.700000
2624	0.543284	2624	0.000000
2625	0.000000	2625	868.800000
2626	0.000000	2626	328.391460
2627	0.000000	2627	1092.791460
2628	0.000000	2628	282.641460
2629	0.000000	2629	806.850000
2630	1.222390	2630	0.000000
2631	0.000000	2631	1337.400000
2632	0.000000	2632	985.091460
2633	0.000000	2633	2260.991460
2634	0.000000	2634	1287.491460
2635	0.000000	2635	221.058540
2636	0.000000	2636	397.608540
2637	0.000000	2637	787.908540
2638	-0.000000	2638	0.000000
2639	0.000000	2639	1023.450000
2640	0.000000	2640	521.808540
2641	0.000000	2641	574.200000
2642	1.629850	2642	0.000000
2643	0.000000	2643	1083.300000
2644	0.000000	2644	656.741460
2645	0.000000	2645	1402.991460
2646	0.000000	2646	759.450000
2647	0.000000	2647	861.791460
2648	0.000000	2648	940.230000
2649	0.000000	2649	413.790000
2650	-0.000000	2650	0.000000
2651	0.000000	2651	464.220000
2652	0.000000	2652	373.200000
2653	0.000000	2653	70.620000
2654	0.000000	2654	164.100000
2655	0.000000	2655	289.560000
2656	-0.000000	2656	0.000000
2657	0.000000	2657	587.220000
2658	0.000000	2658	186.240000

Coordenada x	Valor x	Coordenada z	Valor z
2659	0.000000	2659	38.640000
2660	0.000000	2660	183.780000
2661	0.000000	2661	962.370000
2662	-0.000000	2662	0.000000
2663	0.000000	2663	326.460000
2664	0.000000	2664	133.350000
2665	0.000000	2665	12.810000
2666	0.000000	2666	547.860000
2667	0.000000	2667	1449.450000
2668	0.000000	2668	828.300000
2669	0.000000	2669	820.920000
2670	0.000000	2670	775.410000
2671	0.000000	2671	822.150000
2672	0.000000	2672	221.910000
2673	0.000000	2673	315.390000
2674	0.000000	2674	1114.890000
2675	0.000000	2675	528.180000
2676	-0.000000	2676	0.000000
2677	0.000000	2677	524.490000
2678	0.000000	2678	551.550000
2679	0.000000	2679	133.350000
2680	0.000000	2680	309.240000
2681	0.000000	2681	1074.300000
2682	0.000000	2682	522.030000
2683	0.153598	2683	0.000000
2684	0.000000	2684	469.140000
2685	0.000000	2685	458.070000
2686	0.000000	2686	467.910000
2687	0.000000	2687	66.930000
2688	0.000000	2688	105.060000
2689	0.000000	2689	935.310000
2690	0.000000	2690	427.320000
2691	0.122879	2691	0.000000
2692	0.000000	2692	455.610000
2693	0.000000	2693	373.200000
2694	0.000000	2694	522.030000
2695	0.000000	2695	86.610000
2696	0.000000	2696	111.210000
2697	0.000000	2697	989.430000
2698	0.000000	2698	399.030000
2699	0.291837	2699	0.000000
2700	0.000000	2700	348.600000
2701	0.000000	2701	374.430000
2702	0.000000	2702	76.770000
2703	0.000000	2703	192.390000
2704	0.000000	2704	990.660000
2705	0.000000	2705	424.860000
2706	0.184318	2706	0.000000
2707	0.000000	2707	411.330000

Coordenada x	Valor x	Coordenada z	Valor z
2708	0.000000	2708	421.170000
2709	0.000000	2709	78.000000
2710	0.000000	2710	196.080000
2711	0.000000	2711	583.530000
2712	0.000000	2712	383.040000
2713	0.307197	2713	0.000000
2714	0.000000	2714	460.530000
2715	0.000000	2715	309.240000
2716	0.000000	2716	84.150000
2717	0.000000	2717	293.250000
2718	0.000000	2718	1268.640000
2719	0.000000	2719	663.480000
2720	0.291837	2720	0.000000
2721	0.000000	2721	677.010000
2722	0.000000	2722	544.170000
2723	0.000000	2723	105.060000
2724	0.000000	2724	196.080000
2725	0.000000	2725	1001.730000
2726	0.000000	2726	462.990000
2727	0.061439	2727	0.000000
2728	0.000000	2728	510.960000
2729	0.000000	2729	406.410000
2730	0.000000	2730	84.150000
2731	0.000000	2731	263.730000
2732	0.000000	2732	1092.750000
2733	0.000000	2733	525.720000
2734	0.445435	2734	0.000000
2735	0.000000	2735	616.740000
2736	0.000000	2736	460.530000
2737	0.000000	2737	60.780000
2738	0.000000	2738	121.050000
2739	0.000000	2739	440.850000
2740	0.000000	2740	231.750000
2741	0.368636	2741	0.000000
2742	0.000000	2742	332.610000
2743	0.000000	2743	119.820000
2744	0.000000	2744	23.880000
2745	0.000000	2745	175.170000
2746	0.000000	2746	822.150000
2747	0.000000	2747	455.610000
2748	0.061439	2748	0.000000
2749	0.000000	2749	467.910000
2750	0.000000	2750	282.180000
2751	0.000000	2751	49.710000
2752	0.000000	2752	449.460000
2753	0.000000	2753	1381.800000
2754	0.000000	2754	796.320000
2755	0.138238	2755	0.000000
2756	0.000000	2756	724.980000

Coordenada x	Valor x	Coordenada z	Valor z
2757	0.000000	2757	784.020000
2758	0.000000	2758	113.670000
2759	0.000000	2759	359.670000
2760	0.000000	2760	1085.370000
2761	0.000000	2761	672.090000
2762	0.122879	2762	0.000000
2763	0.000000	2763	739.740000
2764	0.000000	2764	717.600000
2765	0.000000	2765	87.840000
2766	0.000000	2766	443.310000
2767	0.000000	2767	1480.200000
2768	0.000000	2768	723.750000
2769	0.307197	2769	0.000000
2770	0.000000	2770	488.820000
2771	0.000000	2771	702.840000
2772	0.000000	2772	76.770000
2773	0.000000	2773	447.000000
2774	0.000000	2774	1531.860000
2775	0.000000	2775	755.730000
2776	0.215038	2776	0.000000
2777	0.000000	2777	647.490000
2778	0.000000	2778	166.560000
2779	0.000000	2779	435.930000
2780	0.000000	2780	889.800000
2781	0.000000	2781	684.390000
2782	0.522234	2782	0.000000
2783	0.000000	2783	711.450000
2784	0.000000	2784	150.570000
2785	0.000000	2785	363.360000
2786	0.000000	2786	1266.180000
2787	0.000000	2787	621.660000
2788	0.153598	2788	0.000000
2789	0.000000	2789	373.200000
2790	0.000000	2790	579.840000
2791	0.000000	2791	46.020000
2792	0.000000	2792	416.250000
2793	0.000000	2793	1290.780000
2794	0.000000	2794	677.010000
2795	0.383996	2795	0.000000
2796	0.000000	2796	427.320000
2797	0.000000	2797	116.130000
2798	0.000000	2798	6644.728541
2799	0.000000	2799	381.810000
2800	0.000000	2800	927.930000
2801	0.000000	2801	729.900000
2802	0.383996	2802	0.000000
2803	0.000000	2803	696.690000
2804	0.000000	2804	541.710000
2805	0.000000	2805	97.680000

Coordenada x	Valor x	Coordenada z	Valor z
2806	0.046080	2806	0.000000
2807	0.000000	2807	209.610000
2808	0.000000	2808	768.030000
2809	0.000000	2809	472.830000
2810	0.061439	2810	0.000000
2811	0.000000	2811	481.440000
2812	0.000000	2812	391.650000
2813	0.000000	2813	48.480000
2814	0.000000	2814	269.880000
2815	0.000000	2815	1167.780000
2816	0.000000	2816	530.640000
2817	0.368636	2817	0.000000
2818	0.000000	2818	191.160000
2819	0.000000	2819	432.240000
2820	0.000000	2820	260.040000
2821	0.000000	2821	100.140000
2822	0.000000	2822	363.360000
2823	0.000000	2823	1156.710000
2824	0.000000	2824	581.070000
2825	0.122879	2825	0.000000
2826	0.000000	2826	712.680000
2827	0.000000	2827	550.320000
2828	0.000000	2828	82.920000
2829	0.000000	2829	533.100000
2830	0.000000	2830	993.120000
2831	0.000000	2831	798.780000
2832	0.061439	2832	0.000000
2833	0.000000	2833	603.210000
2834	0.000000	2834	246.510000
2835	0.000000	2835	159.180000
2836	0.000000	2836	951.300000
2837	0.000000	2837	353.520000
2838	0.076799	2838	0.000000
2839	0.000000	2839	494.970000
2840	0.000000	2840	300.630000
2841	0.000000	2841	113.670000
2842	0.000000	2842	508.500000
2843	0.000000	2843	1225.590000
2844	0.000000	2844	856.590000
2845	0.153598	2845	0.000000
2846	0.000000	2846	717.600000
2847	0.000000	2847	178.860000
2848	0.000000	2848	392.880000
2849	0.000000	2849	775.410000
2850	0.000000	2850	649.950000
2851	0.353276	2851	0.000000
2852	0.000000	2852	657.330000
2853	0.000000	2853	71.850000
2854	0.000000	2854	549.090000

Coordenada x	Valor x	Coordenada z	Valor z
2855	0.000000	2855	1376.880000
2856	0.000000	2856	888.570000
2857	0.245757	2857	0.000000
2858	0.000000	2858	711.450000
2859	0.000000	2859	214.530000
2860	0.000000	2860	750.810000
2861	0.000000	2861	1228.050000
2862	0.000000	2862	843.060000
2863	0.046080	2863	0.000000
2864	0.000000	2864	808.620000
2865	0.000000	2865	289.560000
2866	0.000000	2866	130.890000
2867	0.000000	2867	926.700000
2868	0.000000	2868	204.690000
2869	0.030720	2869	0.000000
2870	0.000000	2870	399.030000
2871	0.000000	2871	154.260000
2872	0.000000	2872	90.300000
2873	0.000000	2873	73.080000
2874	0.000000	2874	877.500000
2875	0.000000	2875	349.830000
2876	0.583673	2876	0.000000
2877	0.000000	2877	278.490000
2878	0.000000	2878	338.760000
2879	0.000000	2879	86.610000
2880	0.000000	2880	122.280000
2881	0.000000	2881	752.040000
2882	0.000000	2882	267.420000
2883	0.368636	2883	0.000000
2884	0.000000	2884	391.650000
2885	0.000000	2885	143.190000
2886	0.000000	2886	378.120000
2887	0.000000	2887	63.240000
2888	0.000000	2888	187.470000
2889	0.000000	2889	941.460000
2890	0.000000	2890	419.940000
2891	0.076799	2891	0.000000
2892	0.000000	2892	649.950000
2893	0.000000	2893	418.710000
2894	0.000000	2894	50.940000
2895	0.000000	2895	171.480000
2896	0.000000	2896	930.390000
2897	0.000000	2897	290.790000
2898	0.122879	2898	0.000000
2899	0.000000	2899	335.070000
2900	0.000000	2900	269.880000
2901	0.000000	2901	122.280000
2902	0.000000	2902	176.400000
2903	0.000000	2903	801.240000

Coordenada x	Valor x	Coordenada z	Valor z
2904	0.000000	2904	315.390000
2905	0.076799	2905	0.000000
2906	0.000000	2906	482.670000
2907	0.000000	2907	198.540000
2908	0.000000	2908	119.820000
2909	0.000000	2909	204.690000
2910	0.000000	2910	1100.130000
2911	0.000000	2911	486.360000
2912	0.076799	2912	0.000000
2913	0.000000	2913	632.730000
2914	0.000000	2914	432.240000
2915	0.000000	2915	97.680000
2916	0.000000	2916	165.330000
2917	0.000000	2917	952.530000
2918	0.000000	2918	196.080000
2919	0.215038	2919	0.000000
2920	0.000000	2920	381.810000
2921	0.000000	2921	232.980000
2922	0.000000	2922	423.630000
2923	0.000000	2923	119.820000
2924	0.000000	2924	145.650000
2925	0.000000	2925	913.170000
2926	0.000000	2926	303.090000
2927	0.046080	2927	0.000000
2928	0.000000	2928	426.090000
2929	0.000000	2929	199.770000
2930	0.000000	2930	133.350000
2931	0.000000	2931	186.240000
2932	0.000000	2932	1007.880000
2933	0.000000	2933	368.280000
2934	0.491514	2934	0.000000
2935	0.000000	2935	357.210000
2936	0.000000	2936	349.830000
2937	0.000000	2937	374.430000
2938	0.000000	2938	166.560000
2939	0.000000	2939	85.380000
2940	0.000000	2940	616.740000
2941	0.000000	2941	251.430000
2942	0.261117	2942	0.000000
2943	0.000000	2943	407.640000
2944	0.000000	2944	240.360000
2945	0.000000	2945	151.800000
2946	0.000000	2946	132.120000
2947	0.000000	2947	952.530000
2948	0.000000	2948	387.960000
2949	0.184318	2949	0.000000
2950	0.000000	2950	378.120000
2951	0.000000	2951	315.390000
2952	0.000000	2952	113.670000

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Coordenada x	Valor x	Coordenada z	Valor z
2953	0.000000	2953	167.790000
2954	0.000000	2954	964.830000
2955	0.000000	2955	415.020000
2956	0.184318	2956	0.000000
2957	0.000000	2957	449.460000
2958	0.000000	2958	332.610000
2959	0.000000	2959	107.520000
2960	0.000000	2960	269.880000
2961	0.000000	2961	1020.180000
2962	0.000000	2962	469.140000
2963	0.138238	2963	0.000000
2964	0.000000	2964	146.880000
2965	0.000000	2965	421.170000
2966	0.000000	2966	187.470000
2967	0.000000	2967	183.780000
2968	0.000000	2968	181.320000
2969	0.000000	2969	1134.570000
2970	0.000000	2970	383.040000
2971	0.107519	2971	0.000000
2972	0.000000	2972	268.650000
2973	0.000000	2973	210.840000
2974	0.000000	2974	201.000000
2975	0.000000	2975	326.460000
2976	0.000000	2976	1091.520000
2977	0.000000	2977	533.100000
2978	0.184318	2978	0.000000
2979	0.000000	2979	164.100000
2980	0.000000	2980	197.310000
2981	0.000000	2981	261.270000
2982	0.000000	2982	75.540000
2983	0.000000	2983	803.700000
2984	0.000000	2984	234.210000
2985	-0.000000	2985	0.000000
2986	0.000000	2986	395.340000
2987	0.000000	2987	65.700000
2988	0.000000	2988	268.650000
2989	0.000000	2989	1106.280000
2990	0.000000	2990	422.400000
2991	0.568314	2991	0.000000
2992	0.000000	2992	148.110000
2993	0.000000	2993	408.870000
2994	0.000000	2994	164.100000
2995	0.000000	2995	139.500000
2996	0.000000	2996	139.500000
2997	0.000000	2997	956.220000
2998	0.000000	2998	374.430000
2999	0.061439	2999	0.000000
3000	0.000000	3000	268.650000
3001	0.000000	3001	301.860000

Coordenada x	Valor x	Coordenada z	Valor z
3002	0.000000	3002	223.140000
3003	0.000000	3003	314.160000
3004	0.000000	3004	1058.310000
3005	0.000000	3005	513.420000
3006	0.552954	3006	0.000000
3007	0.000000	3007	256.350000
3008	0.000000	3008	469.140000
3009	0.000000	3009	261.270000
3010	0.000000	3010	150.570000
3011	0.000000	3011	364.590000
3012	0.000000	3012	1093.980000
3013	0.000000	3013	455.610000
3014	0.276477	3014	0.000000
3015	0.000000	3015	146.880000
3016	0.000000	3016	442.080000
3017	0.000000	3017	192.390000
3018	0.000000	3018	140.730000
3019	0.000000	3019	367.050000
3020	0.000000	3020	1182.540000
3021	0.000000	3021	598.290000
3022	0.153598	3022	0.000000
3023	0.000000	3023	347.370000
3024	0.000000	3024	578.610000
3025	0.000000	3025	385.500000
3026	0.000000	3026	146.880000
3027	0.000000	3027	273.570000
3028	0.000000	3028	1049.700000
3029	0.000000	3029	449.460000
3030	0.552954	3030	0.000000
3031	0.000000	3031	32.490000
3032	0.000000	3032	453.150000
3033	0.000000	3033	153.030000
3034	0.000000	3034	41.100000
3035	0.000000	3035	287.100000
3036	0.000000	3036	1143.180000
3037	0.000000	3037	522.030000
3038	0.460795	3038	0.000000
3039	0.000000	3039	324.000000
3040	0.000000	3040	539.250000
3041	0.000000	3041	320.310000
3042	0.000000	3042	164.100000
3043	0.000000	3043	271.110000
3044	0.000000	3044	1123.500000
3045	0.000000	3045	493.740000
3046	0.460795	3046	0.000000
3047	0.000000	3047	210.840000
3048	0.000000	3048	487.590000
3049	0.000000	3049	215.760000
3050	0.000000	3050	134.580000

Coordenada x	Valor x	Coordenada z	Valor z
3051	0.000000	3051	207.150000
3052	0.000000	3052	984.510000
3053	0.000000	3053	428.550000
3054	0.138238	3054	0.000000
3055	0.000000	3055	161.640000
3056	0.000000	3056	407.640000
3057	0.000000	3057	189.930000
3058	0.000000	3058	188.700000
3059	0.000000	3059	165.330000
3060	0.000000	3060	1064.460000
3061	0.000000	3061	390.420000
3062	-0.000000	3062	0.000000
3063	0.000000	3063	86.610000
3064	0.000000	3064	450.690000
3065	0.000000	3065	44.790000
3066	0.000000	3066	387.960000
3067	0.000000	3067	731.130000
3068	0.000000	3068	673.320000
3069	0.107519	3069	0.000000
3070	0.000000	3070	694.230000
3071	0.000000	3071	183.780000
3072	0.000000	3072	338.760000
3073	0.000000	3073	465.450000
3074	0.000000	3074	556.470000
3075	0.076799	3075	0.000000
3076	0.000000	3076	617.970000
3077	0.000000	3077	155.490000
3078	0.000000	3078	294.480000
3079	0.000000	3079	554.010000
3080	0.000000	3080	573.690000
3081	0.061439	3081	0.000000
3082	0.000000	3082	609.360000
3083	0.000000	3083	151.800000
3084	0.000000	3084	201.000000
3085	0.000000	3085	459.300000
3086	0.000000	3086	354.750000
3087	0.061439	3087	0.000000
3088	0.000000	3088	728.670000
3089	0.000000	3089	210.840000
3090	0.000000	3090	231.750000
3091	0.000000	3091	337.530000
3092	0.000000	3092	391.650000
3093	0.061439	3093	0.000000
3094	0.000000	3094	458.070000
3095	0.000000	3095	194.850000
3096	0.000000	3096	234.210000
3097	0.000000	3097	533.100000
3098	0.414715	3098	0.000000
3099	0.000000	3099	502.350000

Coordenada x	Valor x	Coordenada z	Valor z
3100	0.000000	3100	314.160000
3101	0.000000	3101	716.370000
3102	0.000000	3102	165.330000
3103	0.000000	3103	354.750000
3104	0.000000	3104	797.550000
3105	0.000000	3105	587.220000
3106	0.107519	3106	0.000000
3107	0.000000	3107	665.940000
3108	0.000000	3108	150.570000
3109	0.000000	3109	251.430000
3110	0.000000	3110	717.600000
3111	0.000000	3111	383.040000
3112	0.076799	3112	0.000000
3113	0.000000	3113	560.160000
3114	0.000000	3114	287.100000
3115	0.000000	3115	208.380000
3116	0.000000	3116	224.370000
3117	0.000000	3117	305.550000
3118	0.000000	3118	447.000000
3119	0.030720	3119	0.000000
3120	0.000000	3120	546.630000
3121	0.000000	3121	128.430000
3122	0.000000	3122	6056.788541
3123	0.000000	3123	127.200000
3124	0.000000	3124	549.090000
3125	0.000000	3125	250.200000
3126	0.076799	3126	0.000000
3127	0.000000	3127	428.550000
3128	0.000000	3128	167.790000
3129	0.000000	3129	331.380000
3130	0.000000	3130	375.660000
3131	0.000000	3131	672.090000
3132	0.000000	3132	603.210000
3133	0.138238	3133	0.000000
3134	0.000000	3134	624.120000
3135	0.000000	3135	50.940000
3136	0.000000	3136	427.320000
3137	0.000000	3137	531.870000
3138	0.000000	3138	649.950000
3139	0.291837	3139	0.000000
3140	0.000000	3140	667.170000
3141	0.000000	3141	250.200000
3142	0.000000	3142	327.690000
3143	0.000000	3143	276.030000
3144	0.000000	3144	493.740000
3145	0.046080	3145	0.000000
3146	0.000000	3146	133.350000
3147	0.000000	3147	277.980000
3148	0.000000	3148	870.840000

Coordenada x	Valor x	Coordenada z	Valor z
3149	0.000000	3149	621.150000
3150	0.000000	3150	14.250000
3151	0.000000	3151	603.930000
3152	0.046080	3152	0.000000
3153	0.000000	3153	181.320000
3154	0.000000	3154	367.050000
3155	0.000000	3155	466.680000
3156	0.061439	3156	0.000000
3157	0.000000	3157	970.980000
3158	0.000000	3158	245.280000
3159	0.000000	3159	478.980000
3160	0.000000	3160	1397.790000
3161	0.000000	3161	791.400000
3162	0.046080	3162	0.000000
3163	0.000000	3163	782.790000
3164	0.000000	3164	706.530000
3165	0.000000	3165	252.660000
3166	0.000000	3166	611.820000
3167	0.000000	3167	522.030000
3168	0.168958	3168	0.000000
3169	0.000000	3169	576.150000
3170	0.000000	3170	394.110000
3171	0.000000	3171	172.710000
3172	1.273585	3172	0.000000
3173	0.000000	3173	381.630000
3174	0.000000	3174	529.260000
3175	0.000000	3175	575.040000
3176	0.000000	3176	218.610000
3177	0.000000	3177	476.940000
3178	0.000000	3178	996.390000
3179	0.000000	3179	1113.630000
3180	0.000000	3180	1371.350000
3181	0.000000	3181	1526.130000
3182	0.000000	3182	895.020000
3183	0.000000	3183	1290.690000
3184	0.000000	3184	165.680000
3185	0.000000	3185	13.560000
3186	0.000000	3186	523.200000
3187	0.000000	3187	446.900000
3188	-0.000000	3188	0.000000
3189	0.000000	3189	419.650000
3190	0.000000	3190	43.120000
3191	0.078616	3191	0.000000
3192	0.000000	3192	297.700000
3193	0.000000	3193	439.880000
3194	0.000000	3194	123.780000
3195	0.000000	3195	396.280000
3196	0.000000	3196	159.750000
3197	0.000000	3197	133.590000

Coordenada x	Valor x	Coordenada z	Valor z
3198	-0.000000	3198	0.000000
3199	0.000000	3199	328.220000
3200	0.000000	3200	374.480000
3201	0.000000	3201	197.900000
3202	0.000000	3202	452.960000
3203	0.000000	3203	377.750000
3204	0.000000	3204	164.110000
3205	0.125786	3205	0.000000
3206	0.000000	3206	358.740000
3207	0.000000	3207	410.450000
3208	0.000000	3208	460.590000
3209	0.000000	3209	175.010000
3210	0.000000	3210	414.810000
3211	0.000000	3211	354.860000
3212	0.000000	3212	106.340000
3213	0.330189	3213	0.000000
3214	0.000000	3214	397.980000
3215	0.000000	3215	533.620000
3216	0.000000	3216	571.770000
3217	0.000000	3217	222.970000
3218	0.000000	3218	585.940000
3219	0.000000	3219	495.470000
3220	0.000000	3220	63.830000
3221	0.188679	3221	0.000000
3222	0.000000	3222	324.950000
3223	0.000000	3223	485.660000
3224	0.000000	3224	428.980000
3225	0.000000	3225	176.100000
3226	0.000000	3226	438.790000
3227	0.000000	3227	134.680000
3228	0.125786	3228	0.000000
3229	0.000000	3229	346.750000
3230	0.000000	3230	484.570000
3231	0.000000	3231	483.480000
3232	0.000000	3232	447.510000
3233	0.000000	3233	438.790000
3234	0.000000	3234	498.740000
3235	0.235849	3235	0.000000
3236	0.000000	3236	670.480000
3237	0.000000	3237	845.360000
3238	0.000000	3238	887.870000
3239	0.000000	3239	478.030000
3240	0.000000	3240	805.030000
3241	0.235849	3241	0.000000
3242	0.000000	3242	22.280000
3243	0.000000	3243	334.150000
3244	0.000000	3244	260.510000
3245	0.000000	3245	494.860000
3246	0.000000	3246	101.370000

Coordenada x	Valor x	Coordenada z	Valor z
3247	0.000000	3247	238.710000
3248	0.000000	3248	128.140000
3249	0.141509	3249	0.000000
3250	0.000000	3250	370.730000
3251	0.000000	3251	474.760000
3252	0.000000	3252	561.960000
3253	0.000000	3253	193.540000
3254	0.000000	3254	434.430000
3255	0.000000	3255	107.430000
3256	0.204403	3256	0.000000
3257	0.000000	3257	345.660000
3258	0.000000	3258	394.100000
3259	0.000000	3259	575.040000
3260	0.000000	3260	160.840000
3261	0.000000	3261	333.060000
3262	0.000000	3262	558.690000
3263	0.471698	3263	0.000000
3264	0.000000	3264	662.850000
3265	0.000000	3265	971.800000
3266	0.000000	3266	900.950000
3267	0.000000	3267	436.610000
3268	0.000000	3268	878.060000
3269	0.000000	3269	268.750000
3270	0.172956	3270	0.000000
3271	0.000000	3271	523.330000
3272	0.000000	3272	633.900000
3273	0.000000	3273	682.950000
3274	0.000000	3274	242.590000
3275	0.000000	3275	563.050000
3276	0.000000	3276	15.870000
3277	0.204403	3277	0.000000
3278	0.000000	3278	329.310000
3279	0.000000	3279	137.950000
3280	0.000000	3280	414.810000
3281	0.000000	3281	422.440000
3282	0.000000	3282	123.780000
3283	0.000000	3283	198.990000
3284	0.235849	3284	0.000000
3285	0.000000	3285	481.910000
3286	0.000000	3286	400.640000
3287	0.000000	3287	690.580000
3288	0.000000	3288	395.190000
3289	0.000000	3289	363.580000
3290	0.393082	3290	0.000000
3291	0.000000	3291	76.780000
3292	0.000000	3292	254.580000
3293	0.000000	3293	127.530000
3294	0.000000	3294	195.110000
3295	0.000000	3295	109.000000

Coordenada x	Valor x	Coordenada z	Valor z
3296	0.000000	3296	80.660000
3297	0.408805	3297	0.000000
3298	0.000000	3298	119.290000
3299	0.000000	3299	279.650000
3300	0.000000	3300	124.260000
3301	0.000000	3301	332.450000
3302	0.000000	3302	156.960000
3303	0.000000	3303	439.880000
3304	0.361635	3304	0.000000
3305	0.000000	3305	666.120000
3306	0.000000	3306	573.950000
3307	0.000000	3307	838.820000
3308	0.000000	3308	592.480000
3309	0.000000	3309	42.030000
3310	0.188679	3310	0.000000
3311	0.000000	3311	276.990000
3312	0.000000	3312	240.410000
3313	0.000000	3313	205.530000
3314	0.000000	3314	112.880000
3315	0.000000	3315	166.290000
3316	0.000000	3316	67.100000
3317	0.220126	3317	0.000000
3318	0.000000	3318	304.240000
3319	0.000000	3319	218.610000
3320	0.000000	3320	231.690000
3321	0.000000	3321	206.620000
3322	0.000000	3322	6552.040523
3323	0.000000	3323	358.130000
3324	0.078616	3324	0.000000
3325	0.000000	3325	672.660000
3326	0.000000	3326	540.160000
3327	0.000000	3327	791.950000
3328	0.000000	3328	378.840000
3329	0.000000	3329	511.820000
3330	0.078616	3330	0.000000
3331	0.000000	3331	347.230000
3332	0.094340	3332	0.000000
3333	0.000000	3333	586.550000
3334	0.000000	3334	681.860000
3335	0.000000	3335	742.900000
3336	0.000000	3336	387.560000
3337	0.000000	3337	609.920000
3338	0.000000	3338	46.390000
3339	0.267296	3339	0.000000
3340	0.000000	3340	283.530000
3341	0.000000	3341	327.610000
3342	0.000000	3342	131.410000
3343	0.000000	3343	69.280000
3344	0.000000	3344	147.760000

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Coordenada x	Valor x	Coordenada z	Valor z
3345	0.000000	3345	301.450000
3346	0.000000	3346	139.040000
3347	0.157233	3347	0.000000
3348	0.000000	3348	338.030000
3349	0.000000	3349	337.420000
3350	0.000000	3350	603.380000
3351	0.000000	3351	183.730000
3352	0.000000	3352	296.000000
3353	0.000000	3353	434.430000
3354	0.393082	3354	0.000000
3355	0.000000	3355	675.930000
3356	0.000000	3356	482.390000
3357	0.000000	3357	651.340000
3358	0.000000	3358	585.940000
3359	0.000000	3359	140.130000
3360	0.220126	3360	0.000000
3361	0.000000	3361	318.410000
3362	0.000000	3362	519.450000
3363	0.000000	3363	592.480000
3364	0.000000	3364	144.490000
3365	0.000000	3365	505.280000
3366	0.000000	3366	206.620000
3367	0.188679	3367	0.000000
3368	0.000000	3368	521.150000
3369	0.000000	3369	276.380000
3370	0.000000	3370	546.700000
3371	0.000000	3371	319.980000
3372	0.000000	3372	503.100000
3373	0.204403	3373	0.000000
3374	0.000000	3374	736.970000
3375	0.000000	3375	675.320000
3376	0.000000	3376	892.230000
3377	0.000000	3377	624.090000
3378	0.000000	3378	108.520000
3379	0.172956	3379	0.000000
3380	0.000000	3380	415.420000
3381	0.000000	3381	142.310000
3382	0.000000	3382	407.180000
3383	0.000000	3383	217.520000
3384	0.000000	3384	419.170000
3385	0.157233	3385	0.000000
3386	0.000000	3386	506.980000
3387	0.000000	3387	274.200000
3388	0.000000	3388	625.180000
3389	0.000000	3389	415.900000
3390	0.000000	3390	136.860000
3391	0.094340	3391	0.000000
3392	0.000000	3392	208.320000
3393	0.000000	3393	541.250000

Coordenada x	Valor x	Coordenada z	Valor z
3394	0.000000	3394	529.260000
3395	0.000000	3395	36.580000
3396	0.000000	3396	506.370000
3397	0.000000	3397	129.230000
3398	0.408805	3398	0.000000
3399	0.000000	3399	380.540000
3400	0.000000	3400	584.850000
3401	0.000000	3401	466.040000
3402	0.000000	3402	243.680000
3403	0.000000	3403	546.700000
3404	0.000000	3404	284.010000
3405	0.707547	3405	0.000000
3406	0.000000	3406	418.690000
3407	0.000000	3407	696.030000
3408	0.000000	3408	677.500000
3409	0.000000	3409	181.550000
3410	0.000000	3410	620.820000
3411	0.000000	3411	637.170000
3412	0.000000	3412	173.920000
3413	0.141509	3413	0.000000
3414	0.000000	3414	385.990000
3415	0.000000	3415	528.170000
3416	0.000000	3416	738.540000
3417	0.000000	3417	257.850000
3418	0.000000	3418	458.410000
3419	0.000000	3419	169.560000
3420	0.110063	3420	0.000000
3421	0.000000	3421	281.350000
3422	0.000000	3422	537.980000
3423	0.000000	3423	469.310000
3424	0.000000	3424	135.770000
3425	0.000000	3425	531.440000
3426	0.000000	3426	288.370000
3427	0.157233	3427	0.000000
3428	0.000000	3428	417.600000
3429	0.000000	3429	652.430000
3430	0.000000	3430	714.560000
3431	0.000000	3431	187.000000
3432	0.000000	3432	643.710000
3433	0.000000	3433	48.570000
3434	0.125786	3434	0.000000
3435	0.000000	3435	304.240000
3436	0.000000	3436	387.560000
3437	0.000000	3437	582.670000
3438	0.000000	3438	129.230000
3439	0.000000	3439	359.220000
3440	0.000000	3440	144.490000
3441	0.283019	3441	0.000000
3442	0.000000	3442	177.800000

Coordenada x	Valor x	Coordenada z	Valor z
3443	0.000000	3443	518.360000
3444	0.000000	3444	491.110000
3445	0.000000	3445	83.450000
3446	0.000000	3446	483.480000
3447	0.000000	3447	509.640000
3448	0.000000	3448	161.930000
3449	0.235849	3449	0.000000
3450	0.000000	3450	307.510000
3451	0.000000	3451	553.240000
3452	0.000000	3452	565.230000
3453	0.000000	3453	88.900000
3454	0.000000	3454	556.510000
3455	0.000000	3455	113.970000
3456	0.471698	3456	0.000000
3457	0.000000	3457	281.350000
3458	0.000000	3458	469.310000
3459	0.000000	3459	420.260000
3460	0.000000	3460	137.950000
3461	0.000000	3461	390.830000
3462	0.000000	3462	502.010000
3463	0.000000	3463	371.210000
3464	0.220126	3464	0.000000
3465	0.000000	3465	524.420000
3466	0.000000	3466	815.930000
3467	0.000000	3467	811.570000
3468	0.000000	3468	387.560000
3469	0.000000	3469	835.550000
3470	0.000000	3470	115.060000
3471	0.125786	3471	0.000000
3472	0.000000	3472	347.840000
3473	0.000000	3473	518.360000
3474	0.000000	3474	487.840000
3475	0.000000	3475	156.480000
3476	0.000000	3476	504.190000
3477	0.000000	3477	135.770000
3478	0.141509	3478	0.000000
3479	0.000000	3479	360.920000
3480	0.000000	3480	507.460000
3481	0.000000	3481	540.160000
3482	0.000000	3482	160.840000
3483	0.000000	3483	487.840000
3484	0.000000	3484	177.190000
3485	0.188679	3485	0.000000
3486	0.000000	3486	359.830000
3487	0.000000	3487	458.410000
3488	0.000000	3488	222.970000
3489	0.000000	3489	190.270000
3490	0.000000	3490	214.250000
3491	0.000000	3491	506.370000

Coordenada x	Valor x	Coordenada z	Valor z
3492	0.235849	3492	0.000000
3493	0.000000	3493	2.660000
3494	0.000000	3494	184.820000
3495	0.000000	3495	359.700000
3496	0.000000	3496	232.170000
3497	0.000000	3497	136.250000
3498	0.000000	3498	422.920000
3499	0.000000	3499	164.110000
3500	0.251572	3500	0.000000
3501	0.000000	3501	353.290000
3502	0.000000	3502	395.190000
3503	0.000000	3503	175.010000
3504	0.000000	3504	159.750000
3505	0.000000	3505	511.820000
3506	0.000000	3506	196.810000
3507	0.094340	3507	0.000000
3508	0.000000	3508	343.480000
3509	0.000000	3509	650.250000
3510	0.000000	3510	634.990000
3511	0.000000	3511	593.570000
3512	0.000000	3512	99.800000
3513	0.707547	3513	0.000000
3514	0.000000	3514	242.110000
3515	0.000000	3515	382.110000
3516	0.000000	3516	147.760000
3517	0.000000	3517	103.070000
3518	0.000000	3518	117.240000
3519	0.000000	3519	390.830000
3520	0.000000	3520	118.330000
3521	0.172956	3521	0.000000
3522	0.000000	3522	332.580000
3523	0.000000	3523	515.090000
3524	0.000000	3524	387.560000
3525	0.000000	3525	141.220000
3526	0.000000	3526	597.930000
3527	0.000000	3527	182.640000
3528	0.314465	3528	0.000000
3529	0.000000	3529	365.280000
3530	0.000000	3530	424.620000
3531	0.000000	3531	286.190000
3532	0.000000	3532	198.990000
3533	0.000000	3533	245.860000
3534	0.000000	3534	443.150000
3535	0.000000	3535	195.720000
3536	0.424528	3536	0.000000
3537	0.000000	3537	282.440000
3538	0.000000	3538	393.010000
3539	0.000000	3539	157.570000
3540	0.000000	3540	143.400000

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Coordenada x	Valor x	Coordenada z	Valor z
3541	0.000000	3541	153.210000
3542	0.000000	3542	402.820000
3543	0.000000	3543	119.420000
3544	0.204403	3544	0.000000
3545	0.000000	3545	330.400000
3546	0.000000	3546	314.530000
3547	0.000000	3547	256.760000
3548	0.000000	3548	185.910000
3549	0.000000	3549	245.860000
3550	0.000000	3550	329.790000
3551	0.000000	3551	154.300000
3552	0.896226	3552	0.000000
3553	0.000000	3553	316.230000
3554	0.000000	3554	432.250000
3555	0.000000	3555	95.440000
3556	0.000000	3556	192.450000
3557	0.000000	3557	157.570000
3558	0.000000	3558	353.770000
3559	0.000000	3559	83.450000
3560	0.220126	3560	0.000000
3561	0.000000	3561	297.700000
3562	0.000000	3562	349.410000
3563	0.000000	3563	270.930000
3564	0.000000	3564	185.910000
3565	0.000000	3565	222.970000
3566	0.000000	3566	379.930000
3567	0.000000	3567	86.720000
3568	0.550314	3568	0.000000
3569	0.000000	3569	290.070000
3570	0.000000	3570	366.850000
3571	0.000000	3571	188.090000
3572	0.000000	3572	157.570000
3573	0.000000	3573	147.760000
3574	0.000000	3574	371.210000
3575	0.000000	3575	153.210000
3576	0.220126	3576	0.000000
3577	0.000000	3577	355.470000
3578	0.000000	3578	490.020000
3579	0.000000	3579	267.660000
3580	0.000000	3580	209.890000
3581	0.000000	3581	248.040000
3582	0.000000	3582	542.340000
3583	0.000000	3583	45.300000
3584	-0.000000	3584	0.000000
3585	0.000000	3585	250.830000
3586	0.000000	3586	419.170000
3587	0.000000	3587	130.320000
3588	0.000000	3588	177.190000
3589	0.000000	3589	343.960000

Coordenada x	Valor x	Coordenada z	Valor z
3590	0.000000	3590	537.980000
3591	0.078616	3591	0.000000
3592	0.000000	3592	796.920000
3593	0.000000	3593	714.560000
3594	0.000000	3594	964.170000
3595	0.000000	3595	762.520000
3596	0.000000	3596	729.820000
3597	0.062893	3597	0.000000
3598	0.000000	3598	928.810000
3599	0.000000	3599	950.000000
3600	0.000000	3600	1132.030000
3601	0.000000	3601	972.890000
3602	0.000000	3602	612.100000
3603	0.062893	3603	0.000000
3604	0.000000	3604	865.590000
3605	0.000000	3605	871.520000
3606	0.000000	3606	1045.920000
3607	0.000000	3607	891.140000
3608	0.000000	3608	613.190000
3609	0.047170	3609	0.000000
3610	0.000000	3610	755.500000
3611	0.000000	3611	955.450000
3612	0.000000	3612	1235.580000
3613	0.000000	3613	1027.390000
3614	0.000000	3614	748.350000
3615	0.031447	3615	0.000000
3616	0.000000	3616	896.110000
3617	0.000000	3617	1063.360000
3618	0.000000	3618	1103.690000
3619	0.000000	3619	1121.130000
3620	0.000000	3620	50.140000
3621	0.000000	3621	321.070000
3622	0.000000	3622	362.970000
3623	0.000000	3623	442.540000
3624	0.094340	3624	0.000000
3625	0.000000	3625	587.510000
3626	0.000000	3626	394.580000
3627	0.000000	3627	449.690000
3628	0.062893	3628	0.000000
3629	0.000000	3629	661.760000
3630	0.000000	3630	655.700000
3631	0.000000	3631	880.240000
3632	0.000000	3632	674.230000
3633	0.000000	3633	428.980000
3634	0.094340	3634	0.000000
3635	0.000000	3635	551.670000
3636	0.000000	3636	726.550000
3637	0.000000	3637	857.350000
3638	0.000000	3638	339.600000

Coordenada x	Valor x	Coordenada z	Valor z
3639	0.000000	3639	796.310000
3640	0.000000	3640	770.150000
3641	0.015723	3641	0.000000
3642	0.000000	3642	973.500000
3643	0.000000	3643	1091.700000
3644	0.000000	3644	1210.510000
3645	0.000000	3645	1090.610000
3646	0.000000	3646	5188.930523
3647	0.000000	3647	468.220000
3648	0.047170	3648	0.000000
3649	0.000000	3649	583.280000
3650	0.000000	3650	875.880000
3651	0.000000	3651	890.050000
3652	0.000000	3652	383.200000
3653	0.000000	3653	1054.640000
3654	0.000000	3654	579.400000
3655	0.078616	3655	0.000000
3656	0.000000	3656	787.110000
3657	0.000000	3657	766.880000
3658	0.000000	3658	954.360000
3659	0.000000	3659	697.120000
3660	0.000000	3660	749.440000
3661	0.141509	3661	0.000000
3662	0.000000	3662	952.790000
3663	0.000000	3663	891.140000
3664	0.000000	3664	1116.770000
3665	0.000000	3665	997.960000
3666	0.000000	3666	887.870000
3667	0.031447	3667	0.000000
3668	0.000000	3668	1041.080000
3669	0.000000	3669	1117.860000
3670	0.000000	3670	1121.130000
3671	0.000000	3671	316.710000
3672	0.047170	3672	0.000000
3673	0.000000	3673	626.880000
3674	0.000000	3674	603.380000
3675	0.000000	3675	760.340000
3676	0.000000	3676	475.850000
3677	0.000000	3677	677.500000
3678	0.078616	3678	0.000000
3679	0.000000	3679	936.440000
3680	0.000000	3680	1037.200000
3681	0.000000	3681	1532.060000
3682	0.000000	3682	1139.660000
3683	0.000000	3683	27.860000
3684	-0.000000	3684	0.000000
3685	0.000000	3685	310.780000
3686	0.000000	3686	123.780000
3687	0.000000	3687	451.870000

Coordenada x	Valor x	Coordenada z	Valor z
3688	0.000000	3688	108.520000
3689	0.000000	3689	523.810000
3690	0.157233	3690	0.000000
3691	0.000000	3691	768.580000
3692	0.000000	3692	820.290000
3693	0.000000	3693	965.260000
3694	0.000000	3694	528.170000
3695	0.000000	3695	858.440000
3696	0.000000	3696	1536.830000
3697	0.000000	3697	722.000000
3698	0.000000	3698	222.600000
3699	0.000000	3699	385.220000
3700	0.000000	3700	485.560000
3701	0.000000	3701	267.580000
3702	-0.000000	3702	0.000000
3703	0.000000	3703	324.670000
3704	-0.000000	3704	0.000000
3705	0.000000	3705	335.620000
3706	-0.000000	3706	0.000000
3707	-0.000000	3707	0.000000
3708	0.000000	3708	102.070000
3709	0.000000	3709	1419.760000
3710	0.000000	3710	74.390000
3711	0.000000	3711	43.250000
3712	-0.000000	3712	0.000000
3713	0.000000	3713	38.060000
3714	0.000000	3714	641.260000
3715	0.000000	3715	2131.950000
3716	0.000000	3716	1183.910000
3717	0.000000	3717	765.820000
3718	0.000000	3718	930.170000
3719	-0.000000	3719	0.000000
3720	0.000000	3720	359.270000
3721	0.000000	3721	694.890000
3722	0.000000	3722	2041.990000
3723	0.000000	3723	1142.390000
3724	0.000000	3724	482.100000
3725	0.000000	3725	957.850000
3726	-0.000000	3726	0.000000
3727	0.000000	3727	615.310000
3728	0.000000	3728	7516.119976
3729	0.000000	3729	8814.779976
3730	0.000000	3730	7963.619976
3731	0.000000	3731	7311.979976
3732	0.000000	3732	7481.519976
3733	0.000000	3733	7694.309976
3734	0.000000	3734	6712.239976
3735	0.000000	3735	7351.769976
3736	0.000000	3736	7208.179976

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Coordenada x	Valor x	Coordenada z	Valor z
3737	0.000000	3737	8598.529976
3738	0.000000	3738	7809.649976
3739	0.000000	3739	7291.219976
3740	0.000000	3740	7441.729976
3741	0.000000	3741	7554.179976
3742	0.000000	3742	6767.599976
3743	0.000000	3743	7358.689976
3744	0.000000	3744	7286.029976
3745	0.000000	3745	8743.849976
3746	0.000000	3746	7839.059976
3747	0.000000	3747	7360.419976
3748	0.000000	3748	7360.419976
3749	0.000000	3749	7625.109976
3750	0.000000	3750	7414.049976
3751	0.000000	3751	7410.589976
3752	0.000000	3752	8755.959976
3753	0.000000	3753	7885.769976
3754	0.000000	3754	7370.799976
3755	0.000000	3755	7459.029976
3756	0.000000	3756	6705.319976
3757	0.000000	3757	7426.159976
3758	0.000000	3758	7599.159976
3759	0.000000	3759	8366.709976
3760	0.000000	3760	8010.329976
3761	0.000000	3761	7554.179976
3762	0.000000	3762	7711.609976
3763	0.000000	3763	7727.179976
3764	0.000000	3764	7618.189976
3765	0.000000	3765	7355.229976
3766	0.000000	3766	8949.719976
3767	0.000000	3767	8024.169976
3768	0.000000	3768	7173.579976
3769	0.000000	3769	7635.489976
3770	0.000000	3770	7677.009976
3771	0.000000	3771	7266.999976
3772	0.000000	3772	7324.089976
3773	0.000000	3773	8679.839976
3774	0.000000	3774	7847.709976
3775	0.000000	3775	7279.109976
3776	0.000000	3776	7507.469976
3777	0.000000	3777	7588.779976
3778	0.000000	3778	7343.119976
3779	0.000000	3779	7417.509976
3780	0.000000	3780	8806.129976
3781	0.000000	3781	7934.209976
3782	0.000000	3782	7277.379976
3783	0.000000	3783	7654.519976
3784	0.000000	3784	7663.169976
3785	0.000000	3785	7308.519976

Coordenada x	Valor x	Coordenada z	Valor z
3786	0.000000	3786	7696.039976
3787	0.000000	3787	8368.439976
3788	0.000000	3788	7999.949976
3789	0.000000	3789	7756.589976
3790	0.000000	3790	7734.099976
3791	0.000000	3791	7663.169976
3792	0.000000	3792	7735.829976
3793	0.000000	3793	7445.189976
3794	0.000000	3794	8577.769976
3795	0.000000	3795	7987.839976
3796	0.000000	3796	7429.619976
3797	0.000000	3797	7597.429976
3798	0.000000	3798	7564.559976
3799	0.000000	3799	7445.189976
3800	0.000000	3800	7433.079976
3801	0.000000	3801	8967.019976
3802	0.000000	3802	8069.149976
3803	0.000000	3803	7031.719976
3804	0.000000	3804	7561.099976
3805	0.000000	3805	6876.589976
3806	0.000000	3806	7137.249976
3807	0.000000	3807	7474.599976
3808	0.000000	3808	8717.899976
3809	0.000000	3809	8062.229976
3810	0.000000	3810	7199.529976
3811	0.000000	3811	7749.669976
3812	0.000000	3812	7946.889976
3813	0.000000	3813	7268.729976
3814	0.000000	3814	7600.889976
3815	0.000000	3815	9281.879976
3816	0.000000	3816	8143.539976
3817	0.000000	3817	7208.179976
3818	0.000000	3818	7405.399976
3819	0.000000	3819	7934.779976
3820	0.000000	3820	7261.809976
3821	0.000000	3821	7526.499976
3822	0.000000	3822	9274.959976
3823	0.000000	3823	8108.939976
3824	0.000000	3824	7128.599976
3825	0.000000	3825	7548.989976
3826	0.000000	3826	7308.519976
3827	0.000000	3827	7869.039976
3828	0.000000	3828	8730.009976
3829	0.000000	3829	8366.709976
3830	0.000000	3830	7486.709976
3831	0.000000	3831	7997.059976
3832	0.000000	3832	7644.139976
3833	0.000000	3833	7600.889976
3834	0.000000	3834	9093.309976

Coordenada x	Valor x	Coordenada z	Valor z
3835	0.000000	3835	8112.399976
3836	0.000000	3836	7320.629976
3837	0.000000	3837	7355.229976
3838	0.000000	3838	7874.229976
3839	0.000000	3839	7331.009976
3840	0.000000	3840	7576.669976
3841	0.000000	3841	9029.299976
3842	0.000000	3842	8091.639976
3843	0.000000	3843	7222.019976
3844	0.000000	3844	7332.739976
3845	0.000000	3845	7331.009976
3846	0.000000	3846	9656.129976
3847	0.000000	3847	7841.359976
3848	0.000000	3848	8832.079976
3849	0.000000	3849	8479.159976
3850	0.000000	3850	7535.149976
3851	0.000000	3851	8024.739976
3852	0.000000	3852	8035.119976
3853	0.000000	3853	7618.189976
3854	0.000000	3854	7400.209976
3855	0.000000	3855	7576.669976
3856	0.000000	3856	8584.689976
3857	0.000000	3857	8095.099976
3858	0.000000	3858	7512.659976
3859	0.000000	3859	7699.499976
3860	0.000000	3860	7801.569976
3861	0.000000	3861	7526.499976
3862	0.000000	3862	7592.239976
3863	0.000000	3863	9077.739976
3864	0.000000	3864	8107.209976
3865	0.000000	3865	7443.459976
3866	0.000000	3866	7222.019976
3867	0.000000	3867	7789.459976
3868	0.000000	3868	6551.349976
3869	0.000000	3869	7529.959976
3870	0.000000	3870	7557.639976
3871	0.000000	3871	8896.089976
3872	0.000000	3872	8012.059976
3873	0.000000	3873	7277.379976
3874	0.000000	3874	7789.459976
3875	0.000000	3875	7789.459976
3876	0.000000	3876	7339.659976
3877	0.000000	3877	7978.029976
3878	0.000000	3878	8847.649976
3879	0.000000	3879	8499.919976
3880	0.000000	3880	7459.029976
3881	0.000000	3881	7817.139976
3882	0.000000	3882	7751.399976
3883	0.000000	3883	7363.879976

Coordenada x	Valor x	Coordenada z	Valor z
3884	0.000000	3884	8700.599976
3885	0.000000	3885	7785.429976
3886	0.000000	3886	7370.799976
3887	0.000000	3887	7576.669976
3888	0.000000	3888	7531.689976
3889	0.000000	3889	7476.329976
3890	0.000000	3890	7689.119976
3891	0.000000	3891	8920.309976
3892	0.000000	3892	8326.919976
3893	0.000000	3893	7204.719976
3894	0.000000	3894	7723.719976
3895	0.000000	3895	7401.939976
3896	0.000000	3896	8024.739976
3897	0.000000	3897	8785.369976
3898	0.000000	3898	8534.519976
3899	0.000000	3899	7702.959976
3900	0.000000	3900	8137.189976
3901	0.000000	3901	7749.669976
3902	0.000000	3902	7839.629976
3903	0.000000	3903	9226.519976
3904	0.000000	3904	8465.319976
3905	0.000000	3905	7298.139976
3906	0.000000	3906	7808.489976
3907	0.000000	3907	7545.529976
3908	0.000000	3908	7969.379976
3909	0.000000	3909	8863.219976
3910	0.000000	3910	8247.339976
3911	0.000000	3911	7144.169976
3912	0.000000	3912	7791.189976
3913	0.000000	3913	7497.089976
3914	0.000000	3914	7526.499976
3915	0.000000	3915	8868.409976
3916	0.000000	3916	7778.509976
3917	0.000000	3917	7573.209976
3918	0.000000	3918	7644.139976
3919	0.000000	3919	7528.229976
3920	0.000000	3920	7645.869976
3921	0.000000	3921	7331.009976
3922	0.000000	3922	8685.029976
3923	0.000000	3923	7868.469976
3924	0.000000	3924	7459.029976
3925	0.000000	3925	7360.419976
3926	0.000000	3926	7673.549976
3927	0.000000	3927	7526.499976
3928	0.000000	3928	7407.129976
3929	0.000000	3929	8515.489976
3930	0.000000	3930	7759.479976
3931	0.000000	3931	7465.949976
3932	0.000000	3932	7526.499976

Coordenada x	Valor x	Coordenada z	Valor z
3933	0.000000	3933	7405.399976
3934	0.000000	3934	6739.919976
3935	0.000000	3935	7500.549976
3936	0.000000	3936	7396.749976
3937	0.000000	3937	8679.839976
3938	0.000000	3938	7871.929976
3939	0.000000	3939	7363.879976
3940	0.000000	3940	7787.729976
3941	0.000000	3941	7690.849976
3942	0.000000	3942	7381.179976
3943	0.000000	3943	7457.299976
3944	0.000000	3944	8747.309976
3945	0.000000	3945	7773.319976
3946	0.000000	3946	7446.919976
3947	0.000000	3947	7427.889976
3948	0.000000	3948	7564.559976
3949	0.000000	3949	7564.559976
3950	0.000000	3950	7510.929976
3951	0.000000	3951	8612.369976
3952	0.000000	3952	7854.629976
3953	0.000000	3953	7493.629976
3954	0.000000	3954	7682.199976
3955	0.000000	3955	7510.929976
3956	0.000000	3956	7607.809976
3957	0.000000	3957	7327.549976
3958	0.000000	3958	8809.589976
3959	0.000000	3959	7871.929976
3960	0.000000	3960	7270.459976
3961	0.000000	3961	7670.089976
3962	0.000000	3962	7616.459976
3963	0.000000	3963	7353.499976
3964	0.000000	3964	7446.919976
3965	0.000000	3965	8776.719976
3966	0.000000	3966	7638.379976
3967	0.000000	3967	7445.189976
3968	0.000000	3968	7491.899976
3969	0.000000	3969	7510.929976
3970	0.000000	3970	6783.169976
3971	0.000000	3971	7559.369976
3972	0.000000	3972	7446.919976
3973	0.000000	3973	8749.039976
3974	0.000000	3974	7816.569976
3975	0.000000	3975	7472.869976
3976	0.000000	3976	7581.859976
3977	0.000000	3977	7491.899976
3978	0.000000	3978	7606.079976
3979	0.000000	3979	7469.409976
3980	0.000000	3980	8847.649976
3981	0.000000	3981	7873.659976

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Coordenada x	Valor x	Coordenada z	Valor z
3982	0.000000	3982	7438.269976
3983	0.000000	3983	7450.379976
3984	0.000000	3984	7668.359976
3985	0.000000	3985	6707.049976
3986	0.000000	3986	7618.189976
3987	0.000000	3987	7595.699976
3988	0.000000	3988	8565.659976
3989	0.000000	3989	7977.459976
3990	0.000000	3990	7706.419976
3991	0.000000	3991	7789.459976
3992	0.000000	3992	7782.539976
3993	0.000000	3993	7865.579976
3994	0.000000	3994	7362.149976
3995	0.000000	3995	8738.659976
3996	0.000000	3996	7870.199976
3997	0.000000	3997	7407.129976
3998	0.000000	3998	7448.649976
3999	0.000000	3999	7588.779976
4000	0.000000	4000	7512.659976
4001	0.000000	4001	7336.199976
4002	0.000000	4002	8679.839976
4003	0.000000	4003	7832.139976
4004	0.000000	4004	7331.009976
4005	0.000000	4005	7472.869976
4006	0.000000	4006	7536.879976
4007	0.000000	4007	7427.889976
4008	0.000000	4008	7741.019976
4009	0.000000	4009	9018.919976
4010	0.000000	4010	8169.489976
4011	0.000000	4011	7592.239976
4012	0.000000	4012	7308.519976
4013	0.000000	4013	7922.669976
4014	0.000000	4014	6598.059976
4015	0.000000	4015	7796.379976
4016	0.000000	4016	7588.779976
4017	0.000000	4017	9152.129976
4018	0.000000	4018	8020.709976
4019	0.000000	4019	7564.559976
4020	0.000000	4020	7452.109976
4021	0.000000	4021	6603.249976
4022	0.000000	4022	7792.919976
4023	0.000000	4023	7746.209976
4024	0.000000	4024	9044.869976
4025	0.000000	4025	8185.059976
4026	0.000000	4026	7517.849976
4027	0.000000	4027	7258.349976
4028	0.000000	4028	6537.509976
4029	0.000000	4029	7830.979976
4030	0.000000	4030	129.180000

Coordenada x	Valor x	Coordenada z	Valor z
4031	0.000000	4031	1375.940000
4032	0.000000	4032	500.560000
4033	0.000000	4033	253.740000
4034	0.000000	4034	319.480000
4035	0.000000	4035	291.800000
4036	0.000000	4036	7792.919976
4037	0.000000	4037	9193.649976
4038	0.000000	4038	8157.379976
4039	0.000000	4039	7645.869976
4040	0.000000	4040	7363.879976
4041	0.000000	4041	7958.999976
4042	0.000000	4042	6618.819976
4043	0.000000	4043	7787.729976
4044	0.000000	4044	7491.899976
4045	0.000000	4045	8863.219976
4046	0.000000	4046	7970.539976
4047	0.000000	4047	7526.499976
4048	0.000000	4048	7414.049976
4049	0.000000	4049	7689.119976
4050	0.000000	4050	7785.999976
4051	0.000000	4051	7652.789976
4052	0.000000	4052	8922.039976
4053	0.000000	4053	8081.259976
4054	0.000000	4054	7441.729976
4055	0.000000	4055	7311.979976
4056	0.000000	4056	7839.629976
4057	0.000000	4057	6551.349976
4058	0.000000	4058	7599.159976
4059	0.000000	4059	7846.549976
4060	0.000000	4060	9095.039976
4061	0.000000	4061	8122.779976
4062	0.000000	4062	7564.559976
4063	0.000000	4063	7280.839976
4064	0.000000	4064	7924.399976
4065	0.000000	4065	6577.299976
4066	0.000000	4066	7708.149976
4067	0.000000	4067	7623.379976
4068	0.000000	4068	8992.969976
4069	0.000000	4069	8096.829976
4070	0.000000	4070	7337.929976
4071	0.000000	4071	7336.199976
4072	0.000000	4072	7889.799976
4073	0.000000	4073	6622.279976
4074	0.000000	4074	7490.169976
4075	0.000000	4075	7680.469976
4076	0.000000	4076	8994.699976
4077	0.000000	4077	8076.069976
4078	0.000000	4078	7526.499976
4079	0.000000	4079	7081.889976

Coordenada x	Valor x	Coordenada z	Valor z
4080	0.000000	4080	7901.909976
4081	0.000000	4081	6483.879976
4082	0.000000	4082	7529.959976
4083	0.000000	4083	7528.229976
4084	0.000000	4084	8954.909976
4085	0.000000	4085	8006.869976
4086	0.000000	4086	7355.229976
4087	0.000000	4087	7320.629976
4088	0.000000	4088	7851.739976
4089	0.000000	4089	6547.889976
4090	0.000000	4090	7531.689976
4091	0.000000	4091	7623.379976
4092	0.000000	4092	9044.869976
4093	0.000000	4093	8084.719976
4094	0.000000	4094	7472.869976
4095	0.000000	4095	7279.109976
4096	0.000000	4096	7896.719976
4097	0.000000	4097	6518.479976
4098	0.000000	4098	7607.809976
4099	0.000000	4099	7632.029976
4100	0.000000	4100	8947.989976
4101	0.000000	4101	8091.639976
4102	0.000000	4102	7571.479976
4103	0.000000	4103	7308.519976
4104	0.000000	4104	7882.879976
4105	0.000000	4105	6580.759976
4106	0.000000	4106	7782.539976
4107	0.000000	4107	1251.380000
4108	0.000000	4108	2738.610000
4109	0.000000	4109	1716.180000
4110	0.000000	4110	1249.650000
4111	0.000000	4111	881.160000
4112	0.000000	4112	1621.600000
4113	0.000000	4113	1258.300000
4114	0.000000	4114	7919.209976
4115	0.000000	4115	8624.479976
4116	0.000000	4116	8468.779976
4117	0.000000	4117	7604.349976
4118	0.000000	4118	8090.479976
4119	0.000000	4119	7808.489976
4120	0.000000	4120	8140.649976
4121	0.000000	4121	8541.439976
4122	0.000000	4122	8595.069976
4123	0.000000	4123	7894.989976
4124	0.000000	4124	8273.859976
4125	0.000000	4125	8059.339976
4126	0.000000	4126	7907.099976
4127	0.000000	4127	8494.729976
4128	0.000000	4128	8448.019976

Coordenada x	Valor x	Coordenada z	Valor z
4129	0.000000	4129	7723.719976
4130	0.000000	4130	8090.479976
4131	0.000000	4131	7882.879976
4132	0.000000	4132	8199.469976
4133	0.000000	4133	8785.369976
4134	0.000000	4134	8563.929976
4135	0.000000	4135	8147.569976
4136	0.000000	4136	8682.139976
4137	0.000000	4137	8389.769976
4138	0.000000	4138	8104.319976
4139	0.000000	4139	8475.699976
4140	0.000000	4140	8477.429976
4141	0.000000	4141	8009.169976
4142	0.000000	4142	8163.139976
4143	0.000000	4143	8228.879976
4144	0.000000	4144	7933.049976
4145	0.000000	4145	8501.649976
4146	0.000000	4146	7834.439976
4147	0.000000	4147	8050.689976
4148	0.000000	4148	8014.359976
4149	0.000000	4149	7584.159976
4150	0.000000	4150	8012.629976
4151	0.000000	4151	8187.359976
4152	0.000000	4152	9032.759976
4153	0.000000	4153	8662.539976
4154	0.000000	4154	7919.209976
4155	0.000000	4155	8365.549976
4156	0.000000	4156	8076.639976
4157	0.000000	4157	7846.549976
4158	0.000000	4158	8724.819976
4159	0.000000	4159	8179.869976
4160	0.000000	4160	7723.719976
4161	0.000000	4161	8021.279976
4162	0.000000	4162	7865.579976
4163	0.000000	4163	7962.459976
4164	0.000000	4164	8119.889976
4165	0.000000	4165	8456.669976
4166	0.000000	4166	8581.229976
4167	0.000000	4167	8035.119976
4168	0.000000	4168	8313.649976
4169	0.000000	4169	8161.409976
4170	0.000000	4170	9051.789976
4171	0.000000	4171	7971.109976
4172	0.000000	4172	8787.099976
4173	0.000000	4173	8292.319976
4174	0.000000	4174	8023.009976
4175	0.000000	4175	8135.459976
4176	0.000000	4176	7997.059976
4177	0.000000	4177	8434.749976

Coordenada x	Valor x	Coordenada z	Valor z
4178	0.000000	4178	7924.399976
4179	0.000000	4179	8563.929976
4180	0.000000	4180	8392.659976
4181	0.000000	4181	7626.839976
4182	0.000000	4182	8014.359976
4183	0.000000	4183	7644.139976
4184	0.000000	4184	8488.379976
4185	0.000000	4185	8858.029976
4186	0.000000	4186	8949.719976
4187	0.000000	4187	8118.159976
4188	0.000000	4188	8566.229976
4189	0.000000	4189	8415.719976
4190	0.000000	4190	8408.799976
4191	0.000000	4191	8558.739976
4192	0.000000	4192	8790.559976
4193	0.000000	4193	8178.709976
4194	0.000000	4194	8311.919976
4195	0.000000	4195	7720.259976
4196	0.000000	4196	8776.719976
4197	0.000000	4197	8351.139976
4198	0.000000	4198	7580.129976
4199	0.000000	4199	7919.209976
4200	0.000000	4200	7505.739976
4201	0.000000	4201	8178.709976
4202	0.000000	4202	8662.539976
4203	0.000000	4203	8728.279976
4204	0.000000	4204	8154.489976
4205	0.000000	4205	9029.869976
4206	0.000000	4206	8445.129976
4207	0.000000	4207	489.020000
4208	0.000000	4208	2003.930000
4209	0.000000	4209	1076.650000
4210	0.000000	4210	46.140000
4211	0.000000	4211	656.830000
4212	0.000000	4212	777.930000
4213	0.000000	4213	7697.769976
4214	0.000000	4214	8425.529976
4215	0.000000	4215	8224.849976
4216	0.000000	4216	7573.209976
4217	0.000000	4217	7893.259976
4218	0.000000	4218	7865.579976
4219	0.000000	4219	7761.779976
4220	-0.000000	4220	0.000000
4221	0.000000	4221	78.000000
4222	-0.000000	4222	0.000000
4223	-0.000000	4223	0.000000
4224	-0.000000	4224	0.000000
4225	-0.000000	4225	0.000000
4226	1.273585	4226	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
4227	-0.000000	4227	0.000000
4228	0.210684	4228	0.000000
4229	0.000000	4229	78.000000
4230	0.000000	4230	78.000000
4231	-0.000000	4231	0.000000
4232	0.000000	4232	78.000000
4233	-0.000000	4233	0.000000
4234	-0.000000	4234	0.000000
4235	-0.000000	4235	0.000000
4236	-0.000000	4236	0.000000
4237	-0.000000	4237	0.000000
4238	-0.000000	4238	0.000000
4239	-0.000000	4239	0.000000
4240	-0.000000	4240	0.000000
4241	-0.000000	4241	0.000000
4242	-0.000000	4242	0.000000
4243	-0.000000	4243	0.000000
4244	0.000000	4244	78.000000
4245	0.000000	4245	78.000000
4246	-0.000000	4246	0.000000
4247	-0.000000	4247	0.000000
4248	0.000000	4248	78.000000
4249	0.000000	4249	78.000000
4250	0.078616	4250	0.000000
4251	-0.000000	4251	0.000000
4252	-0.000000	4252	0.000000
4253	-0.000000	4253	0.000000
4254	-0.000000	4254	0.000000
4255	-0.000000	4255	0.000000
4256	-0.000000	4256	0.000000
4257	-0.000000	4257	0.000000
4258	-0.000000	4258	0.000000
4259	-0.000000	4259	0.000000
4260	-0.000000	4260	0.000000
4261	-0.000000	4261	0.000000
4262	-0.000000	4262	0.000000
4263	-0.000000	4263	0.000000
4264	-0.000000	4264	0.000000
4265	-0.000000	4265	0.000000
4266	0.094340	4266	0.000000
4267	-0.000000	4267	0.000000
4268	-0.000000	4268	0.000000
4269	-0.000000	4269	0.000000
4270	-0.000000	4270	0.000000
4271	-0.000000	4271	0.000000
4272	-0.000000	4272	0.000000
4273	-0.000000	4273	0.000000
4274	-0.000000	4274	0.000000
4275	-0.000000	4275	0.000000

Coordenada x	Valor x	Coordenada z	Valor z
4276	0.263355	4276	0.000000
4277	-0.000000	4277	0.000000
4278	-0.000000	4278	0.000000
4279	-0.000000	4279	0.000000
4280	-0.000000	4280	0.000000
4281	0.046080	4281	0.000000
4282	-0.000000	4282	0.000000
4283	-0.000000	4283	0.000000

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema ship08l

Coordenada y	Valor y
1	-0.000000
2	-21826.336397
3	-0.000000
4	-0.000000
5	-0.000000
6	-0.000000
7	-0.000000
8	-0.000000
9	-0.000000
10	-0.000000
11	-0.000000
12	-0.000000
13	-0.000000
14	-10783.010292
15	-0.000000
16	-0.000000
17	-0.000000
18	-0.000000
19	-0.000000
20	-0.000000
21	-0.000000
22	-0.000000
23	-0.000000
24	-0.000000
25	-0.000000
26	-0.000000
27	-78.000000
28	-78.000000
29	-78.000000
30	-0.000000
31	-78.000000
32	-78.000000

Coordenada y	Valor y
33	-78.000000
34	-78.000000
35	-0.000000
36	-0.000000
37	-78.000000
38	-0.000000
39	-78.000000
40	-78.000000
41	-78.000000
42	-78.000000
43	-78.000000
44	-0.000000
45	-78.000000
46	-78.000000
47	-78.000000
48	-78.000000
49	-78.000000
50	-78.000000
51	-101.500000
52	-101.500000
53	-101.500000
54	-101.500000
55	-101.500000
56	-101.500000
57	-101.500000
58	-101.500000
59	-78.000000
60	-0.000000
61	-78.000000
62	-0.000000
63	-78.000000
64	-78.000000
65	-78.000000
66	-78.000000
67	-78.000000
68	-78.000000
69	-78.000000
70	-0.000000
71	-78.000000
72	-78.000000
73	-78.000000
74	-78.000000
75	-78.000000
76	-78.000000
77	-78.000000
78	-78.000000
79	-78.000000
80	-78.000000
81	-78.000000

Coordenada y	Valor y
82	-78.000000
83	-101.500000
84	-101.500000
85	-101.500000
86	-101.500000
87	-101.500000
88	-101.500000
89	-101.500000
90	-101.500000
91	5244.219216
92	5741.047081
93	5473.997081
94	5073.967081
95	5384.617081
96	5312.677081
97	5299.597081
98	5343.197081
99	5349.737081
100	5465.277081
101	5225.477081
102	5291.967081
103	-0.000000
104	5290.877081
105	5592.807081
106	5386.797081
107	5136.097081
108	5241.827081
109	5247.277081
110	5197.137081
111	5422.767081
112	5318.127081
113	5255.997081
114	6887.459216
115	5453.287081
116	5368.267081
117	5439.117081
118	5395.517081
119	5290.877081
120	5405.327081
121	5349.737081
122	5245.097081
123	5559.017081
124	5303.957081
125	5206.947081
126	5477.267081
127	5405.327081
128	5409.687081
129	5345.377081
130	5397.697081

Coordenada y	Valor y
131	5427.127081
132	5286.517081
133	5396.607081
134	5414.047081
135	5392.247081
136	5561.197081
137	5372.627081
138	5324.667081
139	5489.257081
140	5471.817081
141	5442.387081
142	5424.947081
143	5523.047081
144	5447.837081
145	5394.427081
146	5471.817081
147	5329.027081
148	5447.837081
149	5339.927081
150	5414.047081
151	-0.000000
152	-0.000000
153	5476.177081
154	5440.207081
155	5496.887081
156	5680.007081
157	5572.097081
158	5839.147081
159	5751.947081
160	-0.000000
161	5641.857081
162	5695.267081
163	5572.097081
164	5768.297081
165	6422.907081
166	5760.667081
167	5511.057081
168	5820.617081
169	5858.767081
170	5477.877081
171	-0.000000
172	5843.507081
173	5138.277081
174	5477.267081
175	-0.000000
176	-0.000000
177	5070.967081
178	4808.928541
179	5370.528541

Coordenada y	Valor y
180	5065.608541
181	5405.767081
182	5317.727081
183	5097.007081
184	5152.807081
185	5242.087081
186	5004.848541
187	5202.407081
188	5180.087081
189	-0.000000
190	5247.047081
191	5006.088541
192	5156.128541
193	5136.288541
194	5256.568541
195	5262.768541
196	5205.728541
197	5265.248541
198	5343.368541
199	5272.688541
200	6851.607081
201	5338.408541
202	5400.408541
203	5161.088541
204	5372.287081
205	5312.368541
206	5349.568541
207	5208.607081
208	5260.288541
209	5304.928541
210	5327.248541
211	5216.888541
212	5325.167081
213	5185.047081
214	5111.488541
215	5229.288541
216	5275.567081
217	5180.928541
218	5182.567081
219	5268.127081
220	5268.127081
221	5284.247081
222	5147.448541
223	5207.367081
224	5188.767081
225	5472.328541
226	5369.807081
227	5482.647081
228	5180.928541

Coordenada y	Valor y
229	5516.127081
230	5300.367081
231	5402.888541
232	5518.208541
233	5355.768541
234	5435.527081
235	5326.407081
236	5394.607081
237	-0.000000
238	-0.000000
239	5400.807081
240	5317.727081
241	5189.608541
242	5130.088541
243	5096.608541
244	5304.928541
245	5082.968541
246	-0.000000
247	5616.567081
248	5482.248541
249	5261.528541
250	5069.328541
251	5495.888541
252	5306.168541
253	5146.208541
254	5357.008541
255	5142.488541
256	5298.728541
257	-0.000000
258	5216.888541
259	5138.768541
260	5047.008541
261	-0.000000
262	-0.000000
263	5176.967081
264	5410.674677
265	5558.767081
266	5470.727081
267	5589.767081
268	-0.000000
269	5281.007081
270	5336.807081
271	5426.087081
272	5561.247081
273	5386.407081
274	5364.087081
275	-0.000000
276	-0.000000
277	5607.834677

Coordenada y	Valor y
278	5450.887081
279	-0.000000
280	-0.000000
281	-0.000000
282	-0.000000
283	5754.687081
284	-0.000000
285	-0.000000
286	-0.000000
287	-0.000000
288	-0.000000
289	5545.127081
290	-0.000000
291	5531.487081
292	-0.000000
293	5392.607081
294	-0.000000
295	5866.287081
296	-0.000000
297	-0.000000
298	5509.167081
299	5369.047081
300	5423.607081
301	5416.167081
302	5459.567081
303	5498.007081
304	5366.567081
305	5452.127081
306	5452.127081
307	5468.247081
308	5558.767081
309	5391.367081
310	5372.767081
311	-0.000000
312	-0.000000
313	-0.000000
314	5393.847081
315	-0.000000
316	5484.367081
317	5599.687081
318	-0.000000
319	-0.000000
320	5619.527081
321	-0.000000
322	-0.000000
323	-0.000000
324	-0.000000
325	-0.000000
326	5501.727081

Coordenada y	Valor y
327	5790.647081
328	5731.834677
329	5698.354677
330	5906.674677
331	5684.714677
332	-0.000000
333	5800.567081
334	5982.847081
335	5738.567081
336	5671.074677
337	6097.634677
338	5827.847081
339	5747.954677
340	5958.754677
341	5744.234677
342	-0.000000
343	-0.000000
344	5818.634677
345	5474.447081
346	5631.927081
347	-0.000000
348	-0.000000
349	7508.457503
350	7762.977503
351	7472.097503
352	7196.877503
353	7167.587503
354	-0.000000
355	-0.000000
356	-0.000000
357	-0.000000
358	-0.000000
359	-0.000000
360	-0.000000
361	-0.000000
362	-0.000000
363	-0.000000
364	-0.000000
365	-0.000000
366	-0.000000
367	-0.000000
368	-0.000000
369	-0.000000
370	-0.000000
371	-0.000000
372	-0.000000
373	-0.000000
374	-0.000000
375	-0.000000

Coordenada y	Valor y
376	-0.000000
377	-0.000000
378	-0.000000
379	-0.000000
380	-0.000000
381	-0.000000
382	-0.000000
383	-0.000000
384	-0.000000
385	-0.000000
386	-0.000000
387	-0.000000
388	-0.000000
389	-0.000000
390	-0.000000
391	-0.000000
392	-0.000000
393	-0.000000
394	-0.000000
395	-0.000000
396	-0.000000
397	-0.000000
398	-0.000000
399	-0.000000
400	7279.697503
401	-0.000000
402	-0.000000
403	-0.000000
404	-0.000000
405	-0.000000
406	-0.000000
407	-0.000000
408	-0.000000
409	-0.000000
410	-0.000000
411	-0.000000
412	6823.687503
413	-0.000000
414	-0.000000
415	-0.000000
416	-0.000000
417	-0.000000
418	-0.000000
419	-0.000000
420	-0.000000
421	-0.000000
422	-0.000000
423	-0.000000
424	-0.000000

Coordenada y	Valor y
425	-0.000000
426	-0.000000
427	-0.000000
428	-0.000000
429	-0.000000
430	-0.000000
431	7262.527503
432	-0.000000
433	-0.000000
434	-0.000000
435	4959.967081
436	4648.567081
437	5370.067081
438	5011.608541
439	5481.858541
440	5336.617081
441	5072.617081
442	5146.867081
443	5265.667081
444	4909.267081
445	5212.867081
446	5183.167081
447	-0.000000
448	5272.267081
449	4910.917081
450	5110.567081
451	5105.658541
452	5244.217081
453	5273.958541
454	5198.058541
455	5255.767081
456	5381.208541
457	5287.158541
458	-0.000000
459	5353.117081
460	5457.108541
461	5117.167081
462	5438.917081
463	5339.958541
464	5367.967081
465	5221.117081
466	5270.658541
467	5308.567081
468	5359.758541
469	5212.908541
470	5376.217081
471	5189.767081
472	5051.167081
473	5207.917081

Coordenada y	Valor y
474	5272.267081
475	5143.567081
476	5186.467081
477	5300.317081
478	5273.917081
479	5321.767081
480	5099.017081
481	5219.467081
482	5194.717081
483	5531.317081
484	5435.617081
485	5556.067081
486	5143.567081
487	5630.317081
488	5343.217081
489	5438.917081
490	5603.917081
491	5397.708541
492	5508.217081
493	5377.867081
494	5468.617081
495	-0.000000
496	-0.000000
497	5463.667081
498	5366.317081
499	5155.117081
500	5075.917081
501	5031.367081
502	5308.567081
503	5013.217081
504	-0.000000
505	5763.967081
506	5544.517081
507	5250.817081
508	4995.067081
509	5562.667081
510	5310.217081
511	5097.367081
512	5377.867081
513	5092.417081
514	5300.317081
515	-0.000000
516	5191.417081
517	5108.958541
518	4965.367081
519	-0.000000
520	-0.000000
521	4800.448541
522	5297.368541

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Coordenada y	Valor y
523	4996.018541
524	4544.608541
525	4895.158541
526	4813.978541
527	4799.218541
528	4848.418541
529	4855.798541
530	4986.178541
531	4715.578541
532	4790.608541
533	-0.000000
534	4789.378541
535	5130.088541
536	4897.618541
537	4614.718541
538	4734.028541
539	4740.178541
540	4683.598541
541	4938.208541
542	4820.128541
543	4750.018541
544	-0.000000
545	4972.648541
546	4876.708541
547	4956.658541
548	4907.458541
549	4789.378541
550	4918.528541
551	4855.798541
552	4737.718541
553	5091.958541
554	4804.138541
555	4694.668541
556	4999.708541
557	4918.528541
558	4923.448541
559	4850.878541
560	4909.918541
561	4943.128541
562	4784.458541
563	4908.688541
564	4928.368541
565	4903.768541
566	5094.418541
567	4881.628541
568	4827.508541
569	5013.238541
570	4993.558541
571	4960.348541

Coordenada y	Valor y
572	4940.668541
573	5051.368541
574	4966.498541
575	4906.228541
576	4993.558541
577	4832.428541
578	4966.498541
579	4844.728541
580	4928.368541
581	-0.000000
582	-0.000000
583	4998.478541
584	4957.888541
585	5021.848541
586	5228.488541
587	5106.718541
588	5408.068541
589	5309.668541
590	-0.000000
591	5185.438541
592	5245.708541
593	5106.718541
594	5328.118541
595	-0.000000
596	5319.508541
597	5037.838541
598	5387.158541
599	5430.208541
600	4990.378541
601	-0.000000
602	5412.988541
603	4617.178541
604	4999.708541
605	-0.000000
606	-0.000000
607	4908.800523
608	4507.070523
609	5088.170523
610	5133.340523
611	5147.510523
612	5039.600523
613	4903.350523
614	4994.910523
615	5002.540523
616	4757.290523
617	5102.340523
618	4954.580523
619	-0.000000
620	5034.150523

Coordenada y	Valor y
621	4758.380523
622	4890.270523
623	5135.520523
624	4978.560523
625	5257.120523
626	5210.250523
627	4986.190523
628	5215.090523
629	5174.760523
630	-0.000000
631	5050.500523
632	5505.640523
633	4894.630523
634	5205.280523
635	5090.830523
636	5060.310523
637	4967.660523
638	5106.090523
639	5021.070523
640	5299.020523
641	5070.120523
642	5073.390523
643	4957.850523
644	4851.030523
645	4954.580523
646	4997.090523
647	4912.070523
648	5036.330523
649	5015.620523
650	4998.180523
651	5060.310523
652	4882.640523
653	4991.640523
654	4954.580523
655	5168.220523
656	5249.490523
657	5184.570523
658	4912.070523
659	5278.310523
660	5070.120523
661	5107.180523
662	5216.180523
663	5151.870523
664	5152.960523
665	5127.890523
666	5184.570523
667	-0.000000
668	-0.000000
669	5123.530523

Coordenada y	Valor y
670	5158.410523
671	4919.700523
672	4867.380523
673	4837.950523
674	5021.070523
675	4825.960523
676	-0.000000
677	5416.260523
678	5176.940523
679	4982.920523
680	4813.970523
681	-0.000000
682	5022.160523
683	4881.550523
684	5066.850523
685	4878.280523
686	5015.620523
687	-0.000000
688	4943.680523
689	5151.870523
690	4794.350523
691	-0.000000
692	-0.000000
693	7070.349976
694	7991.869976
695	7493.629976
696	6831.609976
697	6944.059976
698	-0.000000
699	-0.000000
700	-0.000000
701	-0.000000
702	-0.000000
703	-0.000000
704	-0.000000
705	-0.000000
706	-0.000000
707	-0.000000
708	-0.000000
709	-0.000000
710	-0.000000
711	-0.000000
712	-0.000000
713	-0.000000
714	-0.000000
715	-0.000000
716	-0.000000
717	-0.000000
718	-0.000000

Coordenada y	Valor y
719	-0.000000
720	-0.000000
721	-0.000000
722	-0.000000
723	-0.000000
724	-0.000000
725	-0.000000
726	-0.000000
727	-0.000000
728	-0.000000
729	-0.000000
730	-0.000000
731	-0.000000
732	-0.000000
733	-0.000000
734	-0.000000
735	-0.000000
736	-0.000000
737	-0.000000
738	-0.000000
739	-0.000000
740	-0.000000
741	-0.000000
742	-0.000000
743	-0.000000
744	7236.429976
745	-0.000000
746	-0.000000
747	-0.000000
748	-0.000000
749	-0.000000
750	-0.000000
751	-0.000000
752	-0.000000
753	-0.000000
754	-0.000000
755	-0.000000
756	6264.739976
757	-0.000000
758	-0.000000
759	-0.000000
760	-0.000000
761	-0.000000
762	-0.000000
763	-0.000000
764	-0.000000
765	-0.000000
766	-0.000000
767	-0.000000

Coordenada y	Valor y
768	-0.000000
769	-0.000000
770	-0.000000
771	-0.000000
772	-0.000000
773	-0.000000
774	-0.000000
775	6989.039976
776	-0.000000
777	-0.000000
778	-0.000000

4 Observações

- O solver HiGHS foi configurado com o método IPM (Interior Point Method).

- Este arquivo contém a solução detalhada para o problema ship08l.

- As variáveis duais representam os multiplicadores de Lagrange das restrições.

- Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.