

# Solução do Problema ship12l - Solver HiGHS

Análise Computacional

17 de setembro de 2025

## 1 Informações do Problema

### Informações do Problema:

- Nome: ship12l
- Número de Variáveis: 5427
- Número de Restrições: 1151
- Inviabilidade Primal: 0.000e+00
- Inviabilidade Dual: 3.695e-13
- Valor Primal: 1.470e+06
- Valor Dual: 1.470e+06
- Gap: 2.154e-22
- Número de Iterações: 18

## 2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema ship12l

Coordenada x	Valor x	Coordenada z	Valor z
1	135.945268	1	0.000000
2	63.610689	2	0.000000
3	41.334249	3	0.000000
4	96.857809	4	0.000000
5	93.680201	5	0.000000
6	0.844995	6	0.000000
7	0.460594	7	0.000000
8	1.217311	8	0.000000
9	6.000000	9	0.000000
10	22.399985	10	0.000000
11	30.454722	11	0.000000
12	42.289323	12	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
13	15.965745	13	0.000000
14	32.199999	14	0.000000
15	20.942227	15	0.000000
16	36.119731	16	0.000000
17	8.055003	17	0.000000
18	12.039409	18	0.000000
19	9.700004	19	0.000000
20	0.000000	20	34.605000
21	0.000000	21	33.605000
22	0.000000	22	33.605000
23	0.000000	23	34.605000
24	0.000000	24	2.227500
25	0.000000	25	54.500000
26	16.482688	26	0.000000
27	0.000000	27	1.000000
28	0.000000	28	310.614000
29	0.000000	29	84.054000
30	0.000000	30	129.720000
31	-0.000000	31	0.000000
32	0.000000	32	92.196000
33	0.000000	33	116.622000
34	0.000000	34	16.440000
35	0.000000	35	12.900000
36	0.000000	36	94.320000
37	0.120043	37	0.000000
38	0.000000	38	2.988000
39	0.000000	39	72.018000
40	0.000000	40	97.152000
41	0.000000	41	356.634000
42	0.000000	42	169.368000
43	-0.000000	43	0.000000
44	0.000000	44	62.814000
45	0.000000	45	139.632000
46	0.000000	46	59.628000
47	0.000000	47	354.510000
48	0.000000	48	100.692000
49	-0.000000	49	0.000000
50	0.000000	50	105.294000
51	0.000000	51	57.504000
52	0.000000	52	233.598000
53	0.000000	53	499.098000
54	0.000000	54	255.192000
55	0.000000	55	267.936000
56	0.000000	56	273.954000
57	0.000000	57	192.888000
58	0.000000	58	272.892000
59	0.000000	59	2591.976500
60	0.000000	60	37.326000
61	0.000000	61	311.676000

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Coordenada x	Valor x	Coordenada z	Valor z
62	0.000000	62	90.426000
63	0.000000	63	132.198000
64	0.672240	64	0.000000
65	0.000000	65	94.674000
66	0.000000	66	48.654000
67	0.000000	67	123.702000
68	0.000000	68	69.894000
69	0.000000	69	358.050000
70	0.000000	70	113.082000
71	0.000000	71	162.996000
72	0.072026	72	0.000000
73	0.000000	73	125.826000
74	0.000000	74	151.668000
75	0.000000	75	2570.382500
76	0.000000	76	2608.968500
77	0.000000	77	2755.878500
78	0.000000	78	2623.128500
79	0.000000	79	2677.644500
80	0.000000	80	2546.862500
81	0.000000	81	2621.712500
82	0.000000	82	2668.440500
83	0.000000	83	2559.054500
84	0.000000	84	2875.176500
85	0.000000	85	2625.960500
86	0.000000	86	2599.764500
87	0.000000	87	2531.286500
88	0.000000	88	2611.446500
89	0.000000	89	2596.578500
90	0.000000	90	2552.682500
91	0.000000	91	2819.952500
92	0.000000	92	2589.852500
93	0.000000	93	2621.358500
94	0.000000	94	2505.090500
95	0.000000	95	2593.392500
96	0.000000	96	2612.154500
97	0.000000	97	2571.798500
98	0.000000	98	2845.794500
99	0.000000	99	2607.552500
100	0.000000	100	2621.004500
101	0.000000	101	2535.180500
102	0.000000	102	2608.614500
103	0.000000	103	2605.074500
104	0.000000	104	2628.792500
105	0.000000	105	2756.232500
106	0.000000	106	2621.004500
107	0.000000	107	2719.062500
108	0.000000	108	2551.464500
109	0.000000	109	2608.614500
110	0.000000	110	2692.512500

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Coordenada x	Valor x	Coordenada z	Valor z
111	0.000000	111	2577.462500
112	0.000000	112	2799.066500
113	0.000000	113	2618.526500
114	0.000000	114	2652.156500
115	0.000000	115	2523.498500
116	0.000000	116	2588.436500
117	0.000000	117	2633.040500
118	0.000000	118	2574.984500
119	0.000000	119	2878.716500
120	0.000000	120	2635.164500
121	0.000000	121	2570.736500
122	0.000000	122	2516.064500
123	0.000000	123	2562.594500
124	0.000000	124	2570.028500
125	0.000000	125	2583.480500
126	0.000000	126	2827.740500
127	0.000000	127	2633.748500
128	0.000000	128	2605.074500
129	0.000000	129	2554.650500
130	0.000000	130	2666.670500
131	0.000000	131	2596.932500
132	0.000000	132	2609.322500
133	0.000000	133	2943.144500
134	0.000000	134	2650.386500
135	0.000000	135	2606.844500
136	0.000000	136	2484.204500
137	0.000000	137	2664.192500
138	0.000000	138	2595.516500
139	0.000000	139	2594.100500
140	0.000000	140	2941.728500
141	0.000000	141	2643.306500
142	0.000000	142	2590.560500
143	0.000000	143	2513.586500
144	0.000000	144	2605.074500
145	0.000000	145	2664.192500
146	0.000000	146	2830.218500
147	0.000000	147	2696.052500
148	0.000000	148	2663.838500
149	0.000000	149	2605.272500
150	0.000000	150	2673.750500
151	0.000000	151	2609.322500
152	0.000000	152	2904.558500
153	0.000000	153	2644.014500
154	0.000000	154	2629.854500
155	0.000000	155	2473.938500
156	0.000000	156	2651.802500
157	0.000000	157	2609.676500
158	0.000000	158	2604.366500
159	0.000000	159	2891.460500

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Coordenada x	Valor x	Coordenada z	Valor z
160	0.000000	160	2639.766500
161	0.000000	161	2609.676500
162	0.000000	162	2469.336500
163	0.000000	163	2609.676500
164	0.000000	164	2658.528500
165	0.000000	165	2851.104500
166	0.000000	166	2719.062500
167	0.000000	167	2673.750500
168	0.000000	168	2610.936500
169	0.000000	169	2684.724500
170	0.000000	170	2668.440500
171	0.000000	171	2646.138500
172	0.000000	172	2636.934500
173	0.000000	173	160.872000
174	0.000000	174	454.692000
175	0.000000	175	196.272000
176	0.000000	176	208.308000
177	0.576206	177	0.000000
178	0.000000	178	187.776000
179	0.000000	179	49.362000
180	0.000000	180	203.706000
181	0.000000	181	2600.472500
182	0.000000	182	2864.202500
183	0.000000	183	2623.482500
184	0.000000	184	2621.004500
185	0.000000	185	2562.792500
186	0.000000	186	2634.456500
187	0.000000	187	2611.446500
188	0.000000	188	2686.494500
189	0.000000	189	2854.290500
190	0.000000	190	2723.310500
191	0.000000	191	2658.174500
192	0.000000	192	2568.456500
193	0.000000	193	2695.698500
194	0.000000	194	41.574000
195	0.000000	195	304.950000
196	0.000000	196	57.858000
197	0.000000	197	120.870000
198	0.216077	198	0.000000
199	0.000000	199	62.460000
200	0.000000	200	120.162000
201	0.000000	201	2627.376500
202	0.000000	202	2869.158500
203	0.000000	203	2687.910500
204	0.000000	204	2606.136500
205	0.000000	205	2549.340500
206	0.000000	206	2624.190500
207	0.000000	207	2696.052500
208	0.000000	208	2841.546500

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Coordenada x	Valor x	Coordenada z	Valor z
209	0.000000	209	2730.390500
210	0.000000	210	2708.088500
211	0.000000	211	2633.946500
212	0.000000	212	2695.344500
213	0.000000	213	2658.174500
214	0.000000	214	2931.816500
215	0.000000	215	2716.230500
216	0.000000	216	2625.252500
217	0.000000	217	2566.686500
218	0.000000	218	2653.572500
219	0.000000	219	2684.724500
220	0.000000	220	2857.476500
221	0.000000	221	2671.626500
222	0.000000	222	2593.746500
223	0.000000	223	2563.146500
224	0.000000	224	2643.660500
225	0.000000	225	61.044000
226	0.000000	226	325.482000
227	0.000000	227	42.636000
228	0.000000	228	148.482000
229	0.336120	229	0.000000
230	0.000000	230	47.946000
231	0.000000	231	141.048000
232	0.000000	232	79.098000
233	0.000000	233	346.014000
234	0.000000	234	119.100000
235	0.000000	235	183.174000
236	1.104390	236	0.000000
237	0.000000	237	135.738000
238	0.000000	238	174.678000
239	0.000000	239	60.690000
240	0.000000	240	277.338000
241	0.000000	241	62.814000
242	0.000000	242	150.606000
243	1.656590	243	0.000000
244	0.000000	244	46.884000
245	0.000000	245	25.644000
246	0.000000	246	135.384000
247	0.000000	247	2567.550500
248	0.000000	248	2579.940500
249	0.000000	249	2833.758500
250	0.000000	250	2574.630500
251	0.000000	251	2655.696500
252	0.000000	252	2488.806500
253	0.000000	253	2588.436500
254	0.000000	254	2657.466500
255	0.000000	255	50.070000
256	0.000000	256	265.302000
257	0.000000	257	50.424000

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Coordenada x	Valor x	Coordenada z	Valor z
258	0.000000	258	124.410000
259	0.168060	259	0.000000
260	0.000000	260	36.618000
261	0.000000	261	125.472000
262	0.000000	262	2553.390500
263	0.000000	263	75.912000
264	0.000000	264	337.872000
265	0.000000	265	45.114000
266	0.000000	266	153.438000
267	0.264094	267	0.000000
268	0.000000	268	75.558000
269	0.000000	269	41.574000
270	0.000000	270	154.500000
271	0.000000	271	57.504000
272	0.000000	272	313.800000
273	0.000000	273	63.168000
274	0.000000	274	140.694000
275	0.576206	275	0.000000
276	0.000000	276	53.256000
277	0.000000	277	145.650000
278	0.000000	278	89.010000
279	0.000000	279	360.882000
280	0.000000	280	101.754000
281	0.000000	281	160.518000
282	0.672240	282	0.000000
283	0.000000	283	116.268000
284	0.000000	284	34.494000
285	0.000000	285	175.032000
286	0.000000	286	45.468000
287	0.000000	287	233.796000
288	0.000000	288	53.610000
289	0.000000	289	146.004000
290	1.464520	290	0.000000
291	0.000000	291	70.248000
292	0.000000	292	156.270000
293	0.000000	293	2560.470500
294	0.000000	294	2831.988500
295	0.000000	295	2594.454500
296	0.000000	296	2647.554500
297	0.000000	297	2493.054500
298	0.000000	298	2593.392500
299	0.000000	299	2646.846500
300	0.000000	300	57.150000
301	0.000000	301	321.942000
302	0.000000	302	88.656000
303	0.000000	303	133.968000
304	0.288103	304	0.000000
305	0.000000	305	84.762000
306	0.000000	306	131.490000

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Coordenada x	Valor x	Coordenada z	Valor z
307	0.000000	307	173.616000
308	0.000000	308	424.956000
309	0.000000	309	191.316000
310	0.000000	310	221.052000
311	0.504180	311	0.000000
312	0.000000	312	197.334000
313	0.000000	313	41.220000
314	0.000000	314	240.522000
315	0.000000	315	113.082000
316	0.000000	316	422.832000
317	0.000000	317	131.490000
318	0.000000	318	186.006000
319	0.792283	319	0.000000
320	0.000000	320	12.900000
321	0.000000	321	210.432000
322	0.000000	322	184.944000
323	0.000000	323	440.532000
324	0.000000	324	204.768000
325	0.000000	325	216.096000
326	0.672240	326	0.000000
327	0.000000	327	39.096000
328	0.000000	328	257.868000
329	0.000000	329	46.176000
330	0.000000	330	291.144000
331	0.000000	331	52.194000
332	0.000000	332	149.544000
333	-0.000000	333	0.000000
334	0.000000	334	135.030000
335	0.000000	335	172.908000
336	0.000000	336	449.382000
337	0.000000	337	177.510000
338	0.000000	338	220.698000
339	3.169130	339	0.000000
340	0.000000	340	193.440000
341	0.000000	341	34.140000
342	0.000000	342	227.424000
343	0.000000	343	101.046000
344	0.000000	344	371.502000
345	0.000000	345	129.012000
346	0.000000	346	186.006000
347	0.192069	347	0.000000
348	0.000000	348	127.950000
349	0.000000	349	216.804000
350	0.000000	350	154.854000
351	0.000000	351	404.424000
352	0.000000	352	172.554000
353	0.000000	353	189.546000
354	0.576206	354	0.000000
355	0.000000	355	179.634000

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Coordenada x	Valor x	Coordenada z	Valor z
356	0.000000	356	30.954000
357	0.000000	357	199.458000
358	0.000000	358	200.874000
359	0.000000	359	446.196000
360	0.000000	360	187.422000
361	0.000000	361	221.052000
362	1.584570	362	0.000000
363	0.000000	363	203.352000
364	0.000000	364	42.636000
365	0.000000	365	228.132000
366	0.000000	366	143.880000
367	0.000000	367	413.982000
368	0.000000	368	170.784000
369	0.000000	369	163.350000
370	0.120043	370	0.000000
371	0.000000	371	184.944000
372	0.000000	372	40.512000
373	0.000000	373	172.200000
374	0.000000	374	207.600000
375	0.000000	375	466.374000
376	0.000000	376	218.574000
377	0.000000	377	253.974000
378	2.784990	378	0.000000
379	0.000000	379	239.460000
380	0.000000	380	64.230000
381	0.000000	381	232.380000
382	0.000000	382	127.596000
383	0.000000	383	409.380000
384	0.000000	384	155.562000
385	0.000000	385	170.076000
386	0.792283	386	0.000000
387	0.000000	387	180.342000
388	0.000000	388	28.476000
389	0.000000	389	183.882000
390	0.000000	390	155.562000
391	0.000000	391	436.284000
392	0.000000	392	179.988000
393	0.000000	393	202.644000
394	2.280810	394	0.000000
395	0.000000	395	198.042000
396	0.000000	396	30.954000
397	0.000000	397	207.954000
398	0.000000	398	151.314000
399	0.000000	399	410.442000
400	0.000000	400	175.386000
401	0.000000	401	216.804000
402	0.480172	402	0.000000
403	0.000000	403	189.192000
404	0.000000	404	37.680000

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Coordenada x	Valor x	Coordenada z	Valor z
405	0.000000	405	237.690000
406	0.000000	406	160.872000
407	0.000000	407	455.046000
408	0.000000	408	186.006000
409	0.000000	409	238.398000
410	-0.000000	410	0.000000
411	0.000000	411	223.176000
412	0.000000	412	217.866000
413	0.000000	413	2808.624500
414	0.000000	414	2791.632500
415	0.000000	415	2782.074500
416	0.000000	416	2841.546500
417	0.000000	417	2778.180500
418	0.000000	418	2677.290500
419	0.000000	419	2723.664500
420	0.000000	420	2734.992500
421	0.000000	421	2616.246500
422	0.000000	422	2680.476500
423	0.000000	423	2707.380500
424	0.000000	424	2749.152500
425	0.000000	425	2892.168500
426	0.000000	426	49.362000
427	0.000000	427	218.928000
428	0.000000	428	47.592000
429	0.000000	429	102.108000
430	0.216077	430	0.000000
431	0.000000	431	39.804000
432	0.000000	432	128.658000
433	0.000000	433	2774.286500
434	0.000000	434	13.254000
435	0.000000	435	73.434000
436	0.000000	436	51.840000
437	0.000000	437	71.664000
438	0.048017	438	0.000000
439	0.000000	439	32.724000
440	0.000000	440	49.008000
441	0.096034	441	0.000000
442	0.000000	442	2675.520500
443	0.000000	443	2796.234500
444	0.000000	444	2701.362500
445	0.000000	445	2692.512500
446	0.000000	446	2608.812500
447	0.000000	447	2673.750500
448	0.000000	448	2790.924500
449	0.000000	449	2856.414500
450	0.000000	450	2815.350500
451	0.000000	451	2793.048500
452	0.000000	452	2721.738500
453	0.000000	453	2831.634500

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Coordenada x	Valor x	Coordenada z	Valor z
454	0.000000	454	2795.172500
455	0.000000	455	2682.954500
456	0.000000	456	2816.412500
457	0.000000	457	50.778000
458	0.000000	458	350.616000
459	0.000000	459	101.046000
460	0.000000	460	38.034000
461	-0.000000	461	0.000000
462	0.000000	462	96.444000
463	0.000000	463	2629.146500
464	0.000000	464	2767.914500
465	0.000000	465	2667.024500
466	0.000000	466	2681.538500
467	0.000000	467	2584.032500
468	0.000000	468	2650.032500
469	0.000000	469	2697.822500
470	0.000000	470	275.214000
471	0.000000	471	123.702000
472	2.751930	472	0.000000
473	0.000000	473	82.443500
474	0.000000	474	112.020000
475	0.000000	475	24.936000
476	0.000000	476	51.840000
477	0.000000	477	87.948000
478	4.770012	478	0.000000
479	0.000000	479	117.843500
480	0.000000	480	58.212000
481	0.000000	481	15.732000
482	0.000000	482	57.504000
483	0.000000	483	281.586000
484	-0.000000	484	0.000000
485	0.000000	485	42.795500
486	0.000000	486	42.990000
487	0.000000	487	8.298000
488	0.000000	488	162.288000
489	0.000000	489	421.770000
490	0.000000	490	243.000000
491	0.000000	491	185.103500
492	0.000000	492	227.778000
493	0.000000	493	68.478000
494	0.000000	494	124.094500
495	0.000000	495	354.194500
496	0.000000	496	185.336500
497	0.000000	497	28.712500
498	0.000000	498	184.274500
499	0.000000	499	165.828000
500	0.000000	500	71.702500
501	0.366924	501	0.000000
502	0.000000	502	34.848000

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Coordenada x	Valor x	Coordenada z	Valor z
503	0.000000	503	273.798000
504	0.000000	504	127.596000
505	3.118850	505	0.000000
506	0.000000	506	79.965500
507	0.000000	507	112.020000
508	0.000000	508	128.619500
509	0.000000	509	29.538000
510	0.000000	510	36.618000
511	0.000000	511	289.374000
512	0.000000	512	119.454000
513	2.751930	513	0.000000
514	0.000000	514	49.167500
515	0.000000	515	112.374000
516	0.000000	516	26.706000
517	0.550386	517	0.000000
518	0.000000	518	61.044000
519	0.000000	519	172.554000
520	0.000000	520	114.852000
521	2.018080	521	0.000000
522	0.000000	522	81.381500
523	0.000000	523	93.612000
524	0.000000	524	28.830000
525	0.000000	525	89.010000
526	0.000000	526	369.732000
527	0.000000	527	195.564000
528	1.651160	528	0.000000
529	0.000000	529	143.685500
530	0.000000	530	161.226000
531	0.000000	531	34.848000
532	0.000000	532	61.044000
533	0.000000	533	292.914000
534	0.000000	534	137.862000
535	1.284230	535	0.000000
536	0.000000	536	95.895500
537	0.000000	537	121.578000
538	0.000000	538	28.830000
539	0.000000	539	80.514000
540	0.000000	540	319.110000
541	0.000000	541	155.916000
542	1.467700	542	0.000000
543	0.000000	543	126.339500
544	0.000000	544	137.154000
545	0.000000	545	22.104000
546	0.000000	546	39.450000
547	0.000000	547	131.490000
548	0.000000	548	71.310000
549	4.586550	549	0.000000
550	0.000000	550	44.565500
551	0.000000	551	39.096000

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Coordenada x	Valor x	Coordenada z	Valor z
552	0.000000	552	11.484000
553	0.000000	553	55.026000
554	0.000000	554	241.230000
555	0.000000	555	135.738000
556	4.403090	556	0.000000
557	0.000000	557	83.505500
558	0.000000	558	85.824000
559	0.000000	559	18.918000
560	0.000000	560	133.968000
561	0.000000	561	402.300000
562	0.000000	562	233.796000
563	4.036160	563	0.000000
564	0.000000	564	157.491500
565	0.000000	565	204.021500
566	0.000000	566	37.326000
567	0.000000	567	108.126000
568	0.000000	568	316.986000
569	0.000000	569	198.042000
570	1.651160	570	0.000000
571	0.000000	571	161.739500
572	0.000000	572	211.140000
573	0.000000	573	29.892000
574	0.000000	574	132.198000
575	0.000000	575	430.620000
576	0.000000	576	212.910000
577	1.284230	577	0.000000
578	0.000000	578	89.523500
579	0.000000	579	206.892000
580	0.000000	580	26.706000
581	0.000000	581	133.260000
582	0.000000	582	445.488000
583	0.000000	583	222.114000
584	1.651160	584	0.000000
585	0.000000	585	135.189500
586	0.000000	586	52.548000
587	0.000000	587	130.074000
588	0.000000	588	260.700000
589	0.000000	589	201.582000
590	4.953470	590	0.000000
591	0.000000	591	153.597500
592	0.000000	592	47.946000
593	0.000000	593	109.188000
594	0.000000	594	369.024000
595	0.000000	595	183.528000
596	1.100770	596	0.000000
597	0.000000	597	56.247500
598	0.000000	598	171.492000
599	0.000000	599	17.856000
600	0.000000	600	124.410000

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Coordenada x	Valor x	Coordenada z	Valor z
601	0.000000	601	376.104000
602	0.000000	602	199.458000
603	1.284230	603	0.000000
604	0.000000	604	71.823500
605	0.000000	605	38.034000
606	0.000000	606	114.498000
607	0.000000	607	271.674000
608	0.000000	608	214.680000
609	2.201540	609	0.000000
610	0.000000	610	149.349500
611	0.000000	611	160.518000
612	0.000000	612	32.724000
613	0.366924	613	0.000000
614	0.733848	614	0.000000
615	0.000000	615	82.284000
616	0.000000	616	340.704000
617	0.000000	617	157.332000
618	2.935390	618	0.000000
619	0.000000	619	3.855500
620	0.000000	620	129.012000
621	0.000000	621	53.217500
622	0.000000	622	33.432000
623	0.000000	623	109.188000
624	0.000000	624	337.518000
625	0.000000	625	171.846000
626	1.284230	626	0.000000
627	0.000000	627	153.951500
628	0.000000	628	162.996000
629	0.000000	629	28.476000
630	0.000000	630	158.040000
631	0.000000	631	290.436000
632	0.000000	632	234.504000
633	3.852700	633	0.000000
634	0.000000	634	122.445500
635	0.000000	635	75.558000
636	0.000000	636	50.424000
637	0.000000	637	278.400000
638	0.000000	638	106.356000
639	1.834620	639	0.000000
640	0.000000	640	91.293500
641	0.000000	641	91.134000
642	0.000000	642	37.326000
643	0.000000	643	150.960000
644	0.000000	644	357.342000
645	0.000000	645	251.142000
646	2.751930	646	0.000000
647	0.000000	647	155.367500
648	0.000000	648	56.088000
649	0.000000	649	117.684000

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Coordenada x	Valor x	Coordenada z	Valor z
650	0.000000	650	227.778000
651	0.000000	651	191.670000
652	2.385000	652	0.000000
653	0.000000	653	138.021500
654	0.000000	654	25.290000
655	0.000000	655	162.642000
656	0.000000	656	400.884000
657	0.000000	657	260.346000
658	3.302310	658	0.000000
659	0.000000	659	153.597500
660	0.000000	660	66.354000
661	0.000000	661	220.698000
662	0.000000	662	358.050000
663	0.000000	663	247.248000
664	1.467700	664	0.000000
665	0.000000	665	181.563500
666	0.000000	666	87.948000
667	0.000000	667	42.282000
668	0.000000	668	271.320000
669	0.000000	669	63.522000
670	0.917310	670	0.000000
671	0.000000	671	63.681500
672	0.000000	672	49.008000
673	0.000000	673	30.600000
674	0.000000	674	25.644000
675	0.000000	675	257.160000
676	0.000000	676	105.294000
677	4.036160	677	0.000000
678	0.000000	678	28.989500
679	0.000000	679	102.108000
680	0.000000	680	29.538000
681	0.000000	681	39.804000
682	0.000000	682	221.052000
683	0.000000	683	81.576000
684	6.421170	684	0.000000
685	0.000000	685	61.557500
686	0.000000	686	45.822000
687	0.000000	687	87.201500
688	0.000000	688	22.812000
689	0.917310	689	0.000000
690	0.000000	690	53.964000
691	0.000000	691	272.382000
692	0.000000	692	88.302000
693	2.385000	693	0.000000
694	0.000000	694	45.273500
695	0.000000	695	82.284000
696	0.000000	696	39.804000
697	0.000000	697	55.380000
698	0.000000	698	235.212000

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Coordenada x	Valor x	Coordenada z	Valor z
699	0.000000	699	95.382000
700	3.302310	700	0.000000
701	0.000000	701	87.753500
702	0.000000	702	61.752000
703	0.000000	703	39.096000
704	0.733848	704	0.000000
705	0.000000	705	52.194000
706	0.000000	706	278.754000
707	0.000000	707	61.044000
708	3.485780	708	0.000000
709	0.000000	709	58.725500
710	0.000000	710	71.664000
711	0.000000	711	100.299500
712	0.000000	712	39.096000
713	0.000000	713	46.530000
714	0.000000	714	267.426000
715	0.000000	715	91.842000
716	2.568470	716	0.000000
717	0.000000	717	71.469500
718	0.000000	718	62.106000
719	0.000000	719	42.990000
720	0.000000	720	58.212000
721	0.000000	721	294.684000
722	0.000000	722	110.604000
723	3.669240	723	0.000000
724	0.000000	724	51.645500
725	0.000000	725	105.294000
726	0.000000	726	86.139500
727	0.000000	727	52.548000
728	0.000000	728	29.184000
729	0.000000	729	182.112000
730	0.000000	730	76.974000
731	4.953470	731	0.000000
732	0.000000	732	66.159500
733	0.000000	733	73.788000
734	0.000000	734	48.300000
735	0.000000	735	42.636000
736	0.000000	736	278.754000
737	0.000000	737	116.268000
738	2.018080	738	0.000000
739	0.000000	739	57.663500
740	0.000000	740	95.382000
741	0.000000	741	37.326000
742	0.000000	742	52.902000
743	0.000000	743	282.294000
744	0.000000	744	124.056000
745	2.568470	745	0.000000
746	0.000000	746	78.195500
747	0.000000	747	100.338000

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Coordenada x	Valor x	Coordenada z	Valor z
748	0.000000	748	35.556000
749	0.000000	749	91.172500
750	0.000000	750	307.112500
751	0.000000	751	148.520500
752	0.000000	752	8.888500
753	1.284230	753	0.000000
754	0.000000	754	134.714500
755	0.000000	755	41.220000
756	0.000000	756	66.392500
757	0.000000	757	56.796000
758	0.000000	758	331.146000
759	0.000000	759	114.852000
760	2.018080	760	0.000000
761	0.000000	761	26.157500
762	0.000000	762	39.057500
763	0.000000	763	62.460000
764	0.000000	764	102.500500
765	0.000000	765	322.688500
766	0.000000	766	161.972500
767	0.000000	767	3.932500
768	2.201540	768	0.000000
769	0.000000	769	39.096000
770	0.000000	770	83.738500
771	0.000000	771	26.352000
772	0.000000	772	235.920000
773	0.000000	773	72.018000
774	1.284234	774	0.000000
775	0.000000	775	62.619500
776	0.000000	776	23.520000
777	0.000000	777	90.464500
778	0.000000	778	331.538500
779	0.000000	779	134.714500
780	0.000000	780	8.534500
781	10.824300	781	0.000000
782	0.000000	782	130.820500
783	0.000000	783	34.140000
784	0.000000	784	53.294500
785	0.000000	785	44.760000
786	0.000000	786	279.816000
787	0.000000	787	112.374000
788	0.917310	788	0.000000
789	0.000000	789	26.157500
790	0.000000	790	91.488000
791	0.000000	791	68.832000
792	0.000000	792	95.028000
793	0.000000	793	309.198000
794	0.000000	794	152.376000
795	4.036160	795	0.000000
796	0.000000	796	22.617500

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Coordenada x	Valor x	Coordenada z	Valor z
797	0.000000	797	139.632000
798	0.000000	798	53.571500
799	0.000000	799	47.946000
800	0.000000	800	118.430500
801	0.000000	801	328.352500
802	0.000000	802	144.626500
803	0.000000	803	8.888500
804	4.586550	804	0.000000
805	0.000000	805	140.732500
806	0.000000	806	42.636000
807	0.000000	807	54.002500
808	0.000000	808	110.250000
809	0.000000	809	344.952000
810	0.000000	810	176.802000
811	1.651160	811	0.000000
812	0.000000	812	48.813500
813	0.000000	813	171.138000
814	0.000000	814	89.325500
815	0.000000	815	46.884000
816	0.000000	816	125.156500
817	0.000000	817	348.530500
818	0.000000	818	175.778500
819	0.000000	819	41.810500
820	9.356560	820	0.000000
821	0.000000	821	176.840500
822	0.000000	822	64.230000
823	0.000000	823	58.250500
824	0.000000	824	87.240000
825	0.000000	825	333.624000
826	0.000000	826	154.854000
827	4.036160	827	0.000000
828	0.000000	828	42.087500
829	0.000000	829	159.810000
830	0.000000	830	70.563500
831	0.000000	831	51.840000
832	0.000000	832	82.638000
833	0.000000	833	327.960000
834	0.000000	834	146.712000
835	6.788090	835	0.000000
836	0.000000	836	9.519500
837	0.000000	837	144.942000
838	0.000000	838	40.473500
839	0.000000	839	43.344000
840	0.000000	840	68.870500
841	0.000000	841	292.598500
842	0.000000	842	132.590500
843	0.000000	843	4.640500
844	2.018080	844	0.000000
845	0.000000	845	126.572500

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Coordenada x	Valor x	Coordenada z	Valor z
846	0.000000	846	37.680000
847	0.000000	847	63.560500
848	0.000000	848	78.428500
849	0.000000	849	337.202500
850	0.000000	850	143.210500
851	0.000000	851	26.234500
852	-0.000000	852	0.000000
853	0.000000	853	160.556500
854	0.000000	854	43.736500
855	0.550386	855	0.000000
856	0.550386	856	0.000000
857	0.550386	857	0.000000
858	0.366924	858	0.000000
859	0.550386	859	0.000000
860	0.000000	860	72.018000
861	0.000000	861	158.040000
862	3.302310	862	0.000000
863	0.000000	863	93.417500
864	0.000000	864	95.028000
865	0.000000	865	184.551500
866	0.000000	866	52.194000
867	0.366924	867	0.000000
868	0.000000	868	76.974000
869	0.000000	869	211.140000
870	0.000000	870	114.852000
871	0.733848	871	0.000000
872	0.000000	872	110.055500
873	0.000000	873	87.240000
874	0.000000	874	64.584000
875	0.550386	875	0.000000
876	0.000000	876	71.310000
877	0.000000	877	96.090000
878	0.000000	878	149.544000
879	0.733848	879	0.000000
880	0.000000	880	140.499500
881	0.000000	881	110.604000
882	0.000000	882	189.507500
883	0.550386	883	0.000000
884	0.000000	884	112.728000
885	0.000000	885	198.042000
886	0.000000	886	178.218000
887	2.201540	887	0.000000
888	0.000000	888	128.463500
889	0.000000	889	19.272000
890	0.000000	890	127.596000
891	0.000000	891	157.686000
892	0.000000	892	191.670000
893	2.568470	893	0.000000
894	0.000000	894	140.853500

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Coordenada x	Valor x	Coordenada z	Valor z
895	0.000000	895	76.620000
896	0.183462	896	0.000000
897	0.550386	897	0.000000
898	0.550386	898	0.000000
899	0.000000	899	142.464000
900	0.000000	900	406.902000
901	0.000000	901	232.380000
902	-0.000000	902	0.000000
903	0.000000	903	174.129500
904	0.000000	904	207.954000
905	0.000000	905	77.328000
906	0.000000	906	180.696000
907	0.000000	907	154.854000
908	1.100770	908	0.000000
909	0.000000	909	114.657500
910	0.000000	910	118.038000
911	0.000000	911	54.318000
912	0.000000	912	275.214000
913	0.000000	913	110.497500
914	1.649166	914	0.000000
915	0.000000	915	26.443500
916	0.000000	916	112.020000
917	0.000000	917	24.936000
918	0.000000	918	51.840000
919	0.000000	919	74.743500
920	3.298332	920	0.000000
921	0.000000	921	61.843500
922	0.000000	922	58.212000
923	0.000000	923	15.732000
924	0.000000	924	70.708500
925	0.000000	925	294.790500
926	0.000000	926	13.204500
927	-0.000000	927	0.000000
928	0.000000	928	56.194500
929	0.000000	929	21.502500
930	0.000000	930	162.288000
931	0.000000	931	421.770000
932	0.000000	932	229.795500
933	0.000000	933	129.103500
934	0.000000	934	227.778000
935	0.000000	935	68.478000
936	0.000000	936	180.094500
937	0.000000	937	410.194500
938	0.000000	938	228.132000
939	0.000000	939	84.712500
940	0.000000	940	240.274500
941	0.000000	941	165.828000
942	0.000000	942	127.702500
943	0.353393	943	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
944	0.000000	944	34.848000
945	0.000000	945	273.798000
946	0.000000	946	114.391500
947	2.238150	947	0.000000
948	0.000000	948	23.965500
949	0.000000	949	112.020000
950	0.000000	950	72.619500
951	0.000000	951	29.538000
952	0.000000	952	43.450500
953	0.000000	953	296.206500
954	0.000000	954	113.082000
955	0.000000	955	6.832500
956	1.413570	956	0.000000
957	0.000000	957	119.206500
958	0.000000	958	33.538500
959	0.471190	959	0.000000
960	0.000000	960	61.044000
961	0.000000	961	172.554000
962	0.000000	962	101.647500
963	1.531370	963	0.000000
964	0.000000	964	25.381500
965	0.000000	965	93.612000
966	0.000000	966	28.830000
967	0.000000	967	89.010000
968	0.000000	968	369.732000
969	0.000000	969	182.359500
970	0.942381	970	0.000000
971	0.000000	971	87.685500
972	0.000000	972	161.226000
973	0.000000	973	34.848000
974	0.000000	974	61.044000
975	0.000000	975	292.914000
976	0.000000	976	124.657500
977	0.942381	977	0.000000
978	0.000000	978	39.895500
979	0.000000	979	121.578000
980	0.000000	980	28.830000
981	0.000000	981	80.514000
982	0.000000	982	319.110000
983	0.000000	983	142.711500
984	0.706785	984	0.000000
985	0.000000	985	70.339500
986	0.000000	986	137.154000
987	0.000000	987	22.104000
988	0.000000	988	50.884500
989	0.000000	989	142.924500
990	0.000000	990	69.540000
991	0.000000	991	11.434500
992	2.944940	992	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
993	0.000000	993	50.530500
994	0.000000	994	22.918500
995	0.000000	995	55.026000
996	0.000000	996	241.230000
997	0.000000	997	122.533500
998	3.062740	998	0.000000
999	0.000000	999	27.505500
1000	0.000000	1000	85.824000
1001	0.000000	1001	18.918000
1002	0.000000	1002	133.968000
1003	0.000000	1003	402.300000
1004	0.000000	1004	220.591500
1005	2.002560	1005	0.000000
1006	0.000000	1006	101.491500
1007	0.000000	1007	148.021500
1008	0.000000	1008	37.326000
1009	0.000000	1009	108.126000
1010	0.000000	1010	316.986000
1011	0.000000	1011	184.837500
1012	0.824583	1012	0.000000
1013	0.000000	1013	105.739500
1014	0.000000	1014	211.140000
1015	0.000000	1015	29.892000
1016	0.000000	1016	132.198000
1017	0.000000	1017	430.620000
1018	0.000000	1018	199.705500
1019	0.824583	1019	0.000000
1020	0.000000	1020	33.523500
1021	0.000000	1021	206.892000
1022	0.000000	1022	26.706000
1023	0.000000	1023	133.260000
1024	0.000000	1024	445.488000
1025	0.000000	1025	208.909500
1026	1.177980	1026	0.000000
1027	0.000000	1027	79.189500
1028	0.000000	1028	52.548000
1029	0.000000	1029	130.074000
1030	0.000000	1030	260.700000
1031	0.000000	1031	188.377500
1032	2.591550	1032	0.000000
1033	0.000000	1033	97.597500
1034	0.000000	1034	47.946000
1035	0.000000	1035	109.188000
1036	0.000000	1036	369.024000
1037	0.000000	1037	170.323500
1038	0.588988	1038	0.000000
1039	0.000000	1039	0.247500
1040	0.000000	1040	171.492000
1041	0.000000	1041	17.856000

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Coordenada x	Valor x	Coordenada z	Valor z
1042	0.000000	1042	124.410000
1043	0.000000	1043	376.104000
1044	0.000000	1044	186.253500
1045	0.824583	1045	0.000000
1046	0.000000	1046	15.823500
1047	0.000000	1047	38.034000
1048	0.000000	1048	114.498000
1049	0.000000	1049	271.674000
1050	0.000000	1050	201.475500
1051	1.884760	1051	0.000000
1052	0.000000	1052	93.349500
1053	0.000000	1053	160.518000
1054	0.000000	1054	32.724000
1055	0.235595	1055	0.000000
1056	0.706785	1056	0.000000
1057	0.000000	1057	134.428500
1058	0.000000	1058	392.848500
1059	0.000000	1059	196.272000
1060	0.000000	1060	52.144500
1061	2.591550	1061	0.000000
1062	0.000000	1062	181.156500
1063	0.000000	1063	49.362000
1064	0.000000	1064	85.576500
1065	0.000000	1065	109.188000
1066	0.000000	1066	337.518000
1067	0.000000	1067	158.641500
1068	0.824583	1068	0.000000
1069	0.000000	1069	97.951500
1070	0.000000	1070	162.996000
1071	0.000000	1071	28.476000
1072	0.000000	1072	158.040000
1073	0.000000	1073	290.436000
1074	0.000000	1074	221.299500
1075	2.473750	1075	0.000000
1076	0.000000	1076	66.445500
1077	0.000000	1077	75.558000
1078	0.000000	1078	50.424000
1079	0.000000	1079	278.400000
1080	0.000000	1080	93.151500
1081	0.942381	1081	0.000000
1082	0.000000	1082	35.293500
1083	0.000000	1083	91.134000
1084	0.000000	1084	37.326000
1085	0.000000	1085	150.960000
1086	0.000000	1086	357.342000
1087	0.000000	1087	237.937500
1088	1.766960	1088	0.000000
1089	0.000000	1089	99.367500
1090	0.000000	1090	56.088000

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Coordenada x	Valor x	Coordenada z	Valor z
1091	0.000000	1091	117.684000
1092	0.000000	1092	227.778000
1093	0.000000	1093	178.465500
1094	1.531370	1094	0.000000
1095	0.000000	1095	82.021500
1096	0.000000	1096	25.290000
1097	0.000000	1097	162.642000
1098	0.000000	1098	400.884000
1099	0.000000	1099	247.141500
1100	2.473750	1100	0.000000
1101	0.000000	1101	97.597500
1102	0.000000	1102	66.354000
1103	0.000000	1103	220.698000
1104	0.000000	1104	358.050000
1105	0.000000	1105	234.043500
1106	0.942381	1106	0.000000
1107	0.000000	1107	125.563500
1108	0.000000	1108	87.948000
1109	0.000000	1109	42.282000
1110	0.000000	1110	271.320000
1111	0.000000	1111	50.317500
1112	0.824583	1112	0.000000
1113	0.000000	1113	7.681500
1114	0.000000	1114	49.008000
1115	0.000000	1115	30.600000
1116	0.000000	1116	52.654500
1117	0.000000	1117	284.170500
1118	0.000000	1118	119.100000
1119	0.000000	1119	27.010500
1120	2.591550	1120	0.000000
1121	0.000000	1121	129.118500
1122	0.000000	1122	56.548500
1123	0.000000	1123	39.804000
1124	0.000000	1124	221.052000
1125	0.000000	1125	68.371500
1126	5.300890	1126	0.000000
1127	0.000000	1127	5.557500
1128	0.000000	1128	45.822000
1129	0.000000	1129	31.201500
1130	0.000000	1130	22.812000
1131	0.471190	1131	0.000000
1132	0.000000	1132	64.690500
1133	0.000000	1133	283.108500
1134	0.000000	1134	85.824000
1135	0.000000	1135	10.726500
1136	1.060180	1136	0.000000
1137	0.000000	1137	93.010500
1138	0.000000	1138	50.530500
1139	0.000000	1139	55.380000

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Coordenada x	Valor x	Coordenada z	Valor z
1140	0.000000	1140	235.212000
1141	0.000000	1141	82.177500
1142	2.238150	1142	0.000000
1143	0.000000	1143	31.753500
1144	0.000000	1144	61.752000
1145	0.000000	1145	39.096000
1146	0.353393	1146	0.000000
1147	0.000000	1147	52.194000
1148	0.000000	1148	278.754000
1149	0.000000	1149	47.839500
1150	2.120360	1150	0.000000
1151	0.000000	1151	2.725500
1152	0.000000	1152	71.664000
1153	0.000000	1153	44.299500
1154	0.000000	1154	39.096000
1155	0.000000	1155	46.530000
1156	0.000000	1156	267.426000
1157	0.000000	1157	78.637500
1158	1.766960	1158	0.000000
1159	0.000000	1159	15.469500
1160	0.000000	1160	62.106000
1161	0.000000	1161	42.990000
1162	0.000000	1162	62.566500
1163	0.000000	1163	299.038500
1164	0.000000	1164	101.754000
1165	0.000000	1165	4.354500
1166	3.416130	1166	0.000000
1167	0.000000	1167	109.648500
1168	0.000000	1168	34.494000
1169	0.000000	1169	56.902500
1170	0.000000	1170	29.184000
1171	0.000000	1171	182.112000
1172	0.000000	1172	63.769500
1173	3.298330	1173	0.000000
1174	0.000000	1174	10.159500
1175	0.000000	1175	73.788000
1176	0.000000	1176	48.300000
1177	0.000000	1177	42.636000
1178	0.000000	1178	278.754000
1179	0.000000	1179	103.063500
1180	1.060180	1180	0.000000
1181	0.000000	1181	1.663500
1182	0.000000	1182	95.382000
1183	0.000000	1183	37.326000
1184	0.000000	1184	52.902000
1185	0.000000	1185	282.294000
1186	0.000000	1186	110.851500
1187	1.295770	1187	0.000000
1188	0.000000	1188	22.195500

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Coordenada x	Valor x	Coordenada z	Valor z
1189	0.000000	1189	100.338000
1190	0.000000	1190	35.556000
1191	0.000000	1191	147.172500
1192	0.000000	1192	363.112500
1193	0.000000	1193	191.316000
1194	0.000000	1194	64.888500
1195	0.942381	1195	0.000000
1196	0.000000	1196	190.714500
1197	0.000000	1197	41.220000
1198	0.000000	1198	122.392500
1199	0.000000	1199	86.638500
1200	0.000000	1200	360.988500
1201	0.000000	1201	131.490000
1202	0.000000	1202	29.842500
1203	1.295770	1203	0.000000
1204	0.000000	1204	12.900000
1205	0.000000	1205	92.302500
1206	0.000000	1206	158.500500
1207	0.000000	1207	378.688500
1208	0.000000	1208	204.768000
1209	0.000000	1209	59.932500
1210	1.060180	1210	0.000000
1211	0.000000	1211	39.096000
1212	0.000000	1212	139.738500
1213	0.000000	1213	26.352000
1214	0.000000	1214	235.920000
1215	0.000000	1215	58.813500
1216	0.706785	1216	0.000000
1217	0.000000	1217	6.619500
1218	0.000000	1218	23.520000
1219	0.000000	1219	146.464500
1220	0.000000	1220	387.538500
1221	0.000000	1221	177.510000
1222	0.000000	1222	64.534500
1223	4.829700	1223	0.000000
1224	0.000000	1224	186.820500
1225	0.000000	1225	34.140000
1226	0.000000	1226	109.294500
1227	0.000000	1227	74.602500
1228	0.000000	1228	309.658500
1229	0.000000	1229	129.012000
1230	0.000000	1230	29.842500
1231	0.588988	1231	0.000000
1232	0.000000	1232	121.330500
1233	0.000000	1233	98.674500
1234	0.000000	1234	128.410500
1235	0.000000	1235	342.580500
1236	0.000000	1236	172.554000
1237	0.000000	1237	33.382500

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Coordenada x	Valor x	Coordenada z	Valor z
1238	2.238150	1238	0.000000
1239	0.000000	1239	173.014500
1240	0.000000	1240	30.954000
1241	0.000000	1241	81.328500
1242	0.000000	1242	174.430500
1243	0.000000	1243	384.352500
1244	0.000000	1244	187.422000
1245	0.000000	1245	64.888500
1246	2.827140	1246	0.000000
1247	0.000000	1247	196.732500
1248	0.000000	1248	42.636000
1249	0.000000	1249	110.002500
1250	0.000000	1250	117.436500
1251	0.000000	1251	352.138500
1252	0.000000	1252	170.784000
1253	0.000000	1253	7.186500
1254	0.942381	1254	0.000000
1255	0.000000	1255	178.324500
1256	0.000000	1256	40.512000
1257	0.000000	1257	54.070500
1258	0.000000	1258	181.156500
1259	0.000000	1259	404.530500
1260	0.000000	1260	218.574000
1261	0.000000	1261	97.810500
1262	4.947500	1262	0.000000
1263	0.000000	1263	232.840500
1264	0.000000	1264	64.230000
1265	0.000000	1265	114.250500
1266	0.000000	1266	101.152500
1267	0.000000	1267	347.536500
1268	0.000000	1268	155.562000
1269	0.000000	1269	13.912500
1270	2.827140	1270	0.000000
1271	0.000000	1271	173.722500
1272	0.000000	1272	28.476000
1273	0.000000	1273	65.752500
1274	0.000000	1274	129.118500
1275	0.000000	1275	374.440500
1276	0.000000	1276	179.988000
1277	0.000000	1277	46.480500
1278	4.122910	1278	0.000000
1279	0.000000	1279	191.422500
1280	0.000000	1280	30.954000
1281	0.000000	1281	89.824500
1282	0.000000	1282	124.870500
1283	0.000000	1283	348.598500
1284	0.000000	1284	175.386000
1285	0.000000	1285	60.640500
1286	1.295770	1286	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1287	0.000000	1287	182.572500
1288	0.000000	1288	37.680000
1289	0.000000	1289	119.560500
1290	0.000000	1290	134.428500
1291	0.000000	1291	393.202500
1292	0.000000	1292	186.006000
1293	0.000000	1293	82.234500
1294	-0.000000	1294	0.000000
1295	0.000000	1295	216.556500
1296	0.000000	1296	99.736500
1297	0.353393	1297	0.000000
1298	0.353393	1298	0.000000
1299	0.471190	1299	0.000000
1300	0.235595	1300	0.000000
1301	0.353393	1301	0.000000
1302	0.000000	1302	72.018000
1303	0.000000	1303	144.835500
1304	2.355950	1304	0.000000
1305	0.000000	1305	37.417500
1306	0.000000	1306	95.028000
1307	0.000000	1307	128.551500
1308	0.000000	1308	52.194000
1309	0.235595	1309	0.000000
1310	0.000000	1310	76.974000
1311	0.000000	1311	211.140000
1312	0.000000	1312	101.647500
1313	0.588988	1313	0.000000
1314	0.000000	1314	54.055500
1315	0.000000	1315	87.240000
1316	0.000000	1316	64.584000
1317	0.353393	1317	0.000000
1318	0.000000	1318	71.310000
1319	0.000000	1319	96.090000
1320	0.000000	1320	136.339500
1321	0.942381	1321	0.000000
1322	0.000000	1322	84.499500
1323	0.000000	1323	110.604000
1324	0.000000	1324	133.507500
1325	0.235595	1325	0.000000
1326	0.000000	1326	112.728000
1327	0.000000	1327	198.042000
1328	0.000000	1328	165.013500
1329	1.531370	1329	0.000000
1330	0.000000	1330	72.463500
1331	0.000000	1331	19.272000
1332	0.000000	1332	127.596000
1333	0.000000	1333	157.686000
1334	0.000000	1334	178.465500
1335	1.884760	1335	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1336	0.000000	1336	84.853500
1337	0.000000	1337	76.620000
1338	0.235595	1338	0.000000
1339	0.471190	1339	0.000000
1340	0.471190	1340	0.000000
1341	0.000000	1341	142.464000
1342	0.000000	1342	406.902000
1343	0.000000	1343	219.175500
1344	-0.000000	1344	0.000000
1345	0.000000	1345	118.129500
1346	0.000000	1346	207.954000
1347	0.000000	1347	77.328000
1348	0.000000	1348	180.696000
1349	0.000000	1349	141.649500
1350	0.706785	1350	0.000000
1351	0.000000	1351	58.657500
1352	0.000000	1352	118.038000
1353	0.000000	1353	54.318000
1354	0.000000	1354	275.214000
1355	0.000000	1355	123.702000
1356	1.135903	1356	0.000000
1357	0.000000	1357	63.443500
1358	0.000000	1358	112.020000
1359	0.000000	1359	24.936000
1360	0.000000	1360	51.840000
1361	0.000000	1361	87.948000
1362	1.703854	1362	0.000000
1363	0.000000	1363	98.843500
1364	0.000000	1364	58.212000
1365	0.000000	1365	15.732000
1366	0.000000	1366	57.504000
1367	0.000000	1367	281.586000
1368	-0.000000	1368	0.000000
1369	0.000000	1369	23.795500
1370	0.000000	1370	42.990000
1371	0.000000	1371	8.298000
1372	0.000000	1372	162.288000
1373	0.000000	1373	421.770000
1374	0.000000	1374	243.000000
1375	0.000000	1375	166.103500
1376	0.000000	1376	227.778000
1377	0.000000	1377	68.478000
1378	0.000000	1378	170.154500
1379	0.000000	1379	400.254500
1380	0.000000	1380	231.396500
1381	0.000000	1381	74.772500
1382	0.000000	1382	230.334500
1383	0.000000	1383	192.888000
1384	0.000000	1384	117.762500

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Coordenada x	Valor x	Coordenada z	Valor z
1385	0.189317	1385	0.000000
1386	0.000000	1386	34.848000
1387	0.000000	1387	273.798000
1388	0.000000	1388	127.596000
1389	1.577640	1389	0.000000
1390	0.000000	1390	60.965500
1391	0.000000	1391	112.020000
1392	0.000000	1392	109.619500
1393	0.000000	1393	29.538000
1394	0.000000	1394	36.618000
1395	0.000000	1395	289.374000
1396	0.000000	1396	119.454000
1397	1.072800	1397	0.000000
1398	0.000000	1398	30.167500
1399	0.000000	1399	112.374000
1400	0.000000	1400	26.706000
1401	0.252423	1401	0.000000
1402	0.000000	1402	61.044000
1403	0.000000	1403	172.554000
1404	0.000000	1404	114.852000
1405	0.820374	1405	0.000000
1406	0.000000	1406	62.381500
1407	0.000000	1407	93.612000
1408	0.000000	1408	28.830000
1409	0.000000	1409	89.010000
1410	0.000000	1410	369.732000
1411	0.000000	1411	195.564000
1412	0.126211	1412	0.000000
1413	0.000000	1413	124.685500
1414	0.000000	1414	161.226000
1415	0.000000	1415	34.848000
1416	0.000000	1416	61.044000
1417	0.000000	1417	292.914000
1418	0.000000	1418	137.862000
1419	0.441740	1419	0.000000
1420	0.000000	1420	76.895500
1421	0.000000	1421	121.578000
1422	0.000000	1422	28.830000
1423	0.000000	1423	2490.355000
1424	0.000000	1424	2728.951000
1425	0.000000	1425	2565.757000
1426	0.000000	1426	2409.841000
1427	0.000000	1427	2517.180500
1428	0.000000	1428	2546.995000
1429	0.000000	1429	2431.945000
1430	0.000000	1430	39.450000
1431	0.000000	1431	131.490000
1432	0.000000	1432	71.310000
1433	1.893170	1433	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1434	0.000000	1434	25.565500
1435	0.000000	1435	39.096000
1436	0.000000	1436	11.484000
1437	0.000000	1437	55.026000
1438	0.000000	1438	241.230000
1439	0.000000	1439	135.738000
1440	0.567951	1440	0.000000
1441	0.000000	1441	64.505500
1442	0.000000	1442	85.824000
1443	0.000000	1443	18.918000
1444	0.000000	1444	2493.541000
1445	0.000000	1445	2761.873000
1446	0.000000	1446	2593.369000
1447	0.000000	1447	2359.573000
1448	0.000000	1448	2498.064500
1449	0.000000	1449	2544.594500
1450	0.000000	1450	2396.899000
1451	0.000000	1451	2502.037000
1452	0.000000	1452	2710.897000
1453	0.000000	1453	2591.953000
1454	0.000000	1454	2393.911000
1455	0.000000	1455	2536.650500
1456	0.000000	1456	2605.051000
1457	0.000000	1457	2423.803000
1458	0.000000	1458	2527.879000
1459	0.000000	1459	2826.301000
1460	0.000000	1460	2608.591000
1461	0.000000	1461	2395.681000
1462	0.000000	1462	2466.204500
1463	0.000000	1463	2602.573000
1464	0.000000	1464	2422.387000
1465	0.000000	1465	2512.657000
1466	0.000000	1466	2824.885000
1467	0.000000	1467	2601.511000
1468	0.000000	1468	2379.397000
1469	0.000000	1469	2495.586500
1470	0.000000	1470	2431.945000
1471	0.000000	1471	130.074000
1472	0.000000	1472	260.700000
1473	0.000000	1473	201.582000
1474	0.567951	1474	0.000000
1475	0.000000	1475	134.597500
1476	0.000000	1476	47.946000
1477	0.000000	1477	109.188000
1478	0.000000	1478	369.024000
1479	0.000000	1479	183.528000
1480	0.126211	1480	0.000000
1481	0.000000	1481	37.247500
1482	0.000000	1482	171.492000

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Coordenada x	Valor x	Coordenada z	Valor z
1483	0.000000	1483	17.856000
1484	0.000000	1484	124.410000
1485	0.000000	1485	376.104000
1486	0.000000	1486	199.458000
1487	0.126211	1487	0.000000
1488	0.000000	1488	52.823500
1489	0.000000	1489	38.034000
1490	0.000000	1490	114.498000
1491	0.000000	1491	271.674000
1492	0.000000	1492	214.680000
1493	0.441740	1493	0.000000
1494	0.000000	1494	130.349500
1495	0.000000	1495	160.518000
1496	0.000000	1496	32.724000
1497	0.000000	1497	2434.975000
1498	0.315529	1498	0.000000
1499	0.000000	1499	97.428500
1500	0.000000	1500	355.848500
1501	0.000000	1501	172.476500
1502	0.000000	1502	15.144500
1503	1.451430	1503	0.000000
1504	0.000000	1504	144.156500
1505	0.000000	1505	49.362000
1506	0.000000	1506	48.576500
1507	0.000000	1507	109.188000
1508	0.000000	1508	337.518000
1509	0.000000	1509	171.846000
1510	0.063106	1510	0.000000
1511	0.000000	1511	134.951500
1512	0.000000	1512	162.996000
1513	0.000000	1513	28.476000
1514	0.000000	1514	158.040000
1515	0.000000	1515	290.436000
1516	0.000000	1516	234.504000
1517	2.208700	1517	0.000000
1518	0.000000	1518	103.445500
1519	0.000000	1519	75.558000
1520	0.000000	1520	50.424000
1521	0.000000	1521	278.400000
1522	0.000000	1522	106.356000
1523	0.946586	1523	0.000000
1524	0.000000	1524	72.293500
1525	0.000000	1525	91.134000
1526	0.000000	1526	37.326000
1527	0.000000	1527	150.960000
1528	0.000000	1528	357.342000
1529	0.000000	1529	251.142000
1530	0.378634	1530	0.000000
1531	0.000000	1531	136.367500

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Coordenada x	Valor x	Coordenada z	Valor z
1532	0.000000	1532	56.088000
1533	0.000000	1533	117.684000
1534	0.000000	1534	227.778000
1535	0.000000	1535	191.670000
1536	0.378634	1536	0.000000
1537	0.000000	1537	119.021500
1538	0.000000	1538	25.290000
1539	0.000000	1539	162.642000
1540	0.000000	1540	400.884000
1541	0.000000	1541	260.346000
1542	0.441740	1542	0.000000
1543	0.000000	1543	134.597500
1544	0.000000	1544	66.354000
1545	0.000000	1545	2603.281000
1546	0.000000	1546	2740.633000
1547	0.000000	1547	2629.831000
1548	0.000000	1548	2382.583000
1549	0.000000	1549	2545.146500
1550	0.000000	1550	2470.531000
1551	0.000000	1551	42.282000
1552	0.000000	1552	271.320000
1553	0.000000	1553	63.522000
1554	0.757269	1554	0.000000
1555	0.000000	1555	44.681500
1556	0.000000	1556	49.008000
1557	0.000000	1557	30.600000
1558	0.000000	1558	25.644000
1559	0.000000	1559	257.160000
1560	0.000000	1560	105.294000
1561	1.766960	1561	0.000000
1562	0.000000	1562	9.989500
1563	0.000000	1563	102.108000
1564	0.000000	1564	29.538000
1565	0.000000	1565	39.804000
1566	0.000000	1566	221.052000
1567	0.000000	1567	81.576000
1568	2.965970	1568	0.000000
1569	0.000000	1569	42.557500
1570	0.000000	1570	45.822000
1571	0.000000	1571	68.201500
1572	0.000000	1572	22.812000
1573	0.315529	1573	0.000000
1574	0.000000	1574	53.964000
1575	0.000000	1575	272.382000
1576	0.000000	1576	88.302000
1577	0.631057	1577	0.000000
1578	0.000000	1578	26.273500
1579	0.000000	1579	82.284000
1580	0.000000	1580	39.804000

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Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	55.380000
1582	0.000000	1582	235.212000
1583	0.000000	1583	95.382000
1584	1.199010	1584	0.000000
1585	0.000000	1585	68.753500
1586	0.000000	1586	61.752000
1587	0.000000	1587	39.096000
1588	0.189317	1588	0.000000
1589	0.000000	1589	52.194000
1590	0.000000	1590	278.754000
1591	0.000000	1591	61.044000
1592	2.019380	1592	0.000000
1593	0.000000	1593	39.725500
1594	0.000000	1594	71.664000
1595	0.000000	1595	81.299500
1596	0.000000	1596	39.096000
1597	0.000000	1597	46.530000
1598	0.000000	1598	267.426000
1599	0.000000	1599	91.842000
1600	1.451430	1600	0.000000
1601	0.000000	1601	52.469500
1602	0.000000	1602	62.106000
1603	0.000000	1603	42.990000
1604	0.000000	1604	58.212000
1605	0.000000	1605	294.684000
1606	0.000000	1606	110.604000
1607	2.398020	1607	0.000000
1608	0.000000	1608	32.645500
1609	0.000000	1609	105.294000
1610	0.000000	1610	67.139500
1611	0.000000	1611	52.548000
1612	0.000000	1612	29.184000
1613	0.000000	1613	182.112000
1614	0.000000	1614	76.974000
1615	1.640750	1615	0.000000
1616	0.000000	1616	47.159500
1617	0.000000	1617	73.788000
1618	0.000000	1618	48.300000
1619	0.000000	1619	42.636000
1620	0.000000	1620	278.754000
1621	0.000000	1621	116.268000
1622	1.009690	1622	0.000000
1623	0.000000	1623	38.663500
1624	0.000000	1624	95.382000
1625	0.000000	1625	37.326000
1626	0.000000	1626	52.902000
1627	0.000000	1627	282.294000
1628	0.000000	1628	124.056000
1629	0.820374	1629	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1630	0.000000	1630	59.195500
1631	0.000000	1631	100.338000
1632	0.000000	1632	35.556000
1633	0.000000	1633	110.172500
1634	0.000000	1634	326.112500
1635	0.000000	1635	167.520500
1636	0.000000	1636	27.888500
1637	0.567951	1637	0.000000
1638	0.000000	1638	153.714500
1639	0.000000	1639	41.220000
1640	0.000000	1640	85.392500
1641	0.000000	1641	56.796000
1642	0.000000	1642	331.146000
1643	0.000000	1643	114.852000
1644	1.199010	1644	0.000000
1645	0.000000	1645	7.157500
1646	0.000000	1646	20.057500
1647	0.000000	1647	62.460000
1648	0.000000	1648	121.500500
1649	0.000000	1649	341.688500
1650	0.000000	1650	180.972500
1651	0.000000	1651	22.932500
1652	1.199010	1652	0.000000
1653	0.000000	1653	39.096000
1654	0.000000	1654	102.738500
1655	0.000000	1655	26.352000
1656	0.000000	1656	235.920000
1657	0.000000	1657	72.018000
1658	0.315529	1658	0.000000
1659	0.000000	1659	43.619500
1660	0.000000	1660	23.520000
1661	0.000000	1661	109.464500
1662	0.000000	1662	350.538500
1663	0.000000	1663	153.714500
1664	0.000000	1664	27.534500
1665	4.669820	1665	0.000000
1666	0.000000	1666	149.820500
1667	0.000000	1667	34.140000
1668	0.000000	1668	72.294500
1669	0.000000	1669	44.760000
1670	0.000000	1670	279.816000
1671	0.000000	1671	112.374000
1672	0.504846	1672	0.000000
1673	0.000000	1673	7.157500
1674	0.000000	1674	91.488000
1675	0.000000	1675	68.832000
1676	0.000000	1676	95.028000
1677	0.000000	1677	309.198000
1678	0.000000	1678	152.376000

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Coordenada x	Valor x	Coordenada z	Valor z
1679	1.514540	1679	0.000000
1680	0.000000	1680	3.617500
1681	0.000000	1681	139.632000
1682	0.000000	1682	34.571500
1683	0.000000	1683	47.946000
1684	0.000000	1684	137.430500
1685	0.000000	1685	347.352500
1686	0.000000	1686	163.626500
1687	0.000000	1687	27.888500
1688	1.388330	1688	0.000000
1689	0.000000	1689	159.732500
1690	0.000000	1690	42.636000
1691	0.000000	1691	73.002500
1692	0.000000	1692	110.250000
1693	0.000000	1693	344.952000
1694	0.000000	1694	176.802000
1695	0.252423	1695	0.000000
1696	0.000000	1696	29.813500
1697	0.000000	1697	171.138000
1698	0.000000	1698	70.325500
1699	0.000000	1699	46.884000
1700	0.000000	1700	144.156500
1701	0.000000	1701	367.530500
1702	0.000000	1702	194.778500
1703	0.000000	1703	60.810500
1704	3.533920	1704	0.000000
1705	0.000000	1705	195.840500
1706	0.000000	1706	64.230000
1707	0.000000	1707	77.250500
1708	0.000000	1708	87.240000
1709	0.000000	1709	333.624000
1710	0.000000	1710	154.854000
1711	1.766960	1711	0.000000
1712	0.000000	1712	23.087500
1713	0.000000	1713	159.810000
1714	0.000000	1714	51.563500
1715	0.000000	1715	51.840000
1716	0.000000	1716	92.118500
1717	0.000000	1717	337.440500
1718	0.000000	1718	156.192500
1719	0.000000	1719	9.480500
1720	2.334910	1720	0.000000
1721	0.000000	1721	154.422500
1722	0.000000	1722	30.954000
1723	0.000000	1723	52.824500
1724	0.000000	1724	87.870500
1725	0.000000	1725	311.598500
1726	0.000000	1726	151.590500
1727	0.000000	1727	23.640500

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Coordenada x	Valor x	Coordenada z	Valor z
1728	0.820374	1728	0.000000
1729	0.000000	1729	145.572500
1730	0.000000	1730	37.680000
1731	0.000000	1731	82.560500
1732	0.000000	1732	97.428500
1733	0.000000	1733	356.202500
1734	0.000000	1734	162.210500
1735	0.000000	1735	45.234500
1736	-0.000000	1736	0.000000
1737	0.000000	1737	179.556500
1738	0.000000	1738	62.736500
1739	0.063106	1739	0.000000
1740	0.126211	1740	0.000000
1741	0.189317	1741	0.000000
1742	0.126211	1742	0.000000
1743	0.252423	1743	0.000000
1744	0.000000	1744	72.018000
1745	0.000000	1745	158.040000
1746	1.388330	1746	0.000000
1747	0.000000	1747	74.417500
1748	0.000000	1748	95.028000
1749	0.000000	1749	165.551500
1750	0.000000	1750	52.194000
1751	0.063106	1751	0.000000
1752	0.000000	1752	76.974000
1753	0.000000	1753	211.140000
1754	0.000000	1754	114.852000
1755	0.441740	1755	0.000000
1756	0.000000	1756	91.055500
1757	0.000000	1757	87.240000
1758	0.000000	1758	64.584000
1759	0.252423	1759	0.000000
1760	0.000000	1760	71.310000
1761	0.000000	1761	96.090000
1762	0.000000	1762	149.544000
1763	0.441740	1763	0.000000
1764	0.000000	1764	121.499500
1765	0.000000	1765	110.604000
1766	0.000000	1766	170.507500
1767	0.315529	1767	0.000000
1768	0.000000	1768	112.728000
1769	0.000000	1769	198.042000
1770	0.000000	1770	178.218000
1771	0.757269	1771	0.000000
1772	0.000000	1772	109.463500
1773	0.000000	1773	19.272000
1774	0.000000	1774	127.596000
1775	0.000000	1775	157.686000
1776	0.000000	1776	191.670000

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Coordenada x	Valor x	Coordenada z	Valor z
1777	0.252423	1777	0.000000
1778	0.000000	1778	121.853500
1779	0.000000	1779	76.620000
1780	0.063106	1780	0.000000
1781	0.000000	1781	2471.791000
1782	0.189317	1782	0.000000
1783	0.000000	1783	142.464000
1784	0.000000	1784	406.902000
1785	0.000000	1785	232.380000
1786	-0.000000	1786	0.000000
1787	0.000000	1787	155.129500
1788	0.000000	1788	207.954000
1789	0.000000	1789	77.328000
1790	0.000000	1790	180.696000
1791	0.000000	1791	154.854000
1792	0.378634	1792	0.000000
1793	0.000000	1793	95.657500
1794	0.000000	1794	118.038000
1795	0.000000	1795	54.318000
1796	0.000000	1796	310.614000
1797	0.000000	1797	84.054000
1798	0.000000	1798	129.720000
1799	1.220513	1799	0.000000
1800	0.000000	1800	92.196000
1801	0.000000	1801	116.622000
1802	0.000000	1802	16.440000
1803	0.000000	1803	12.900000
1804	0.000000	1804	94.320000
1805	2.153846	1805	0.000000
1806	0.000000	1806	2.988000
1807	0.000000	1807	72.018000
1808	0.000000	1808	97.152000
1809	0.000000	1809	356.634000
1810	0.000000	1810	169.368000
1811	-0.000000	1811	0.000000
1812	0.000000	1812	62.814000
1813	0.000000	1813	139.632000
1814	0.000000	1814	59.628000
1815	0.000000	1815	354.510000
1816	0.000000	1816	100.692000
1817	0.179487	1817	0.000000
1818	0.000000	1818	105.294000
1819	0.000000	1819	57.504000
1820	0.000000	1820	233.598000
1821	0.000000	1821	499.098000
1822	0.000000	1822	255.192000
1823	0.000000	1823	267.936000
1824	0.000000	1824	273.954000
1825	0.000000	1825	192.888000

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Coordenada x	Valor x	Coordenada z	Valor z
1826	0.000000	1826	272.892000
1827	0.215385	1827	0.000000
1828	0.000000	1828	37.326000
1829	0.000000	1829	311.676000
1830	0.000000	1830	90.426000
1831	0.000000	1831	132.198000
1832	0.969231	1832	0.000000
1833	0.000000	1833	94.674000
1834	0.000000	1834	48.654000
1835	0.000000	1835	123.702000
1836	0.000000	1836	69.894000
1837	0.000000	1837	358.050000
1838	0.000000	1838	113.082000
1839	0.000000	1839	162.996000
1840	0.969231	1840	0.000000
1841	0.000000	1841	125.826000
1842	0.000000	1842	151.668000
1843	0.358974	1843	0.000000
1844	0.000000	1844	62.106000
1845	0.000000	1845	209.016000
1846	0.000000	1846	76.266000
1847	0.000000	1847	130.782000
1848	0.969231	1848	0.000000
1849	0.000000	1849	74.850000
1850	0.000000	1850	121.578000
1851	0.000000	1851	27.768000
1852	0.000000	1852	343.890000
1853	0.000000	1853	94.674000
1854	0.000000	1854	68.478000
1855	0.143590	1855	0.000000
1856	0.000000	1856	80.160000
1857	0.000000	1857	65.292000
1858	0.000000	1858	47.592000
1859	0.000000	1859	314.862000
1860	0.000000	1860	84.762000
1861	0.000000	1861	116.268000
1862	0.502564	1862	0.000000
1863	0.000000	1863	88.302000
1864	0.000000	1864	107.064000
1865	0.000000	1865	2485.798500
1866	0.000000	1866	2759.794500
1867	0.000000	1867	2521.552500
1868	0.000000	1868	2535.004500
1869	0.000000	1869	2449.180500
1870	0.000000	1870	2522.614500
1871	0.000000	1871	2519.074500
1872	0.000000	1872	77.328000
1873	0.000000	1873	204.768000
1874	0.000000	1874	69.540000

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Coordenada x	Valor x	Coordenada z	Valor z
1875	0.000000	1875	167.598000
1876	1.974360	1876	0.000000
1877	0.000000	1877	57.150000
1878	0.000000	1878	141.048000
1879	0.000000	1879	53.964000
1880	0.000000	1880	275.568000
1881	0.000000	1881	95.028000
1882	0.000000	1882	128.658000
1883	0.682051	1883	0.000000
1884	0.000000	1884	64.938000
1885	0.000000	1885	109.542000
1886	0.000000	1886	2488.984500
1887	0.000000	1887	2792.716500
1888	0.000000	1888	2549.164500
1889	0.000000	1889	2484.736500
1890	0.000000	1890	2430.064500
1891	0.000000	1891	2476.594500
1892	0.000000	1892	2484.028500
1893	0.000000	1893	2497.480500
1894	0.000000	1894	2741.740500
1895	0.000000	1895	2547.748500
1896	0.000000	1896	2519.074500
1897	0.000000	1897	2468.650500
1898	0.000000	1898	2580.670500
1899	0.000000	1899	2510.932500
1900	0.000000	1900	2523.322500
1901	0.000000	1901	2857.144500
1902	0.000000	1902	2564.386500
1903	0.000000	1903	2520.844500
1904	0.000000	1904	2398.204500
1905	0.000000	1905	2578.192500
1906	0.000000	1906	2509.516500
1907	0.000000	1907	2508.100500
1908	0.000000	1908	2855.728500
1909	0.000000	1909	2557.306500
1910	0.000000	1910	2504.560500
1911	0.000000	1911	2427.586500
1912	0.000000	1912	2519.074500
1913	0.000000	1913	58.920000
1914	0.000000	1914	224.946000
1915	0.000000	1915	90.780000
1916	0.000000	1916	58.566000
1917	0.574359	1917	0.000000
1918	0.000000	1918	68.478000
1919	0.000000	1919	2523.322500
1920	0.000000	1920	2818.558500
1921	0.000000	1921	2558.014500
1922	0.000000	1922	2543.854500
1923	0.000000	1923	2387.938500

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Coordenada x	Valor x	Coordenada z	Valor z
1924	0.000000	1924	2565.802500
1925	0.000000	1925	2523.676500
1926	0.000000	1926	135.030000
1927	0.000000	1927	422.124000
1928	0.000000	1928	170.430000
1929	0.000000	1929	140.340000
1930	0.107692	1930	0.000000
1931	0.000000	1931	140.340000
1932	0.000000	1932	47.592000
1933	0.000000	1933	240.168000
1934	0.000000	1934	108.126000
1935	0.000000	1935	62.814000
1936	0.358974	1936	0.000000
1937	0.000000	1937	73.788000
1938	0.000000	1938	57.504000
1939	0.000000	1939	2560.138500
1940	0.502564	1940	0.000000
1941	0.000000	1941	160.872000
1942	0.000000	1942	454.692000
1943	0.000000	1943	196.272000
1944	0.000000	1944	208.308000
1945	0.251282	1945	0.000000
1946	0.000000	1946	187.776000
1947	0.000000	1947	49.362000
1948	0.000000	1948	203.706000
1949	0.000000	1949	37.680000
1950	0.000000	1950	301.410000
1951	0.000000	1951	60.690000
1952	0.000000	1952	58.212000
1953	0.071795	1953	0.000000
1954	0.000000	1954	71.664000
1955	0.000000	1955	48.654000
1956	0.000000	1956	2600.494500
1957	0.000000	1957	2768.290500
1958	0.000000	1958	2637.310500
1959	0.000000	1959	2572.174500
1960	0.000000	1960	2482.456500
1961	0.000000	1961	2609.698500
1962	0.000000	1962	41.574000
1963	0.000000	1963	304.950000
1964	0.000000	1964	57.858000
1965	0.000000	1965	120.870000
1966	0.933333	1966	0.000000
1967	0.000000	1967	62.460000
1968	0.000000	1968	120.162000
1969	0.000000	1969	2541.376500
1970	0.000000	1970	2783.158500
1971	0.000000	1971	2601.910500
1972	0.000000	1972	2520.136500

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Coordenada x	Valor x	Coordenada z	Valor z
1973	0.000000	1973	2463.340500
1974	0.000000	1974	2538.190500
1975	0.000000	1975	62.106000
1976	0.000000	1976	207.600000
1977	0.000000	1977	96.444000
1978	0.000000	1978	74.142000
1979	0.466667	1979	0.000000
1980	0.000000	1980	61.398000
1981	0.000000	1981	91.488000
1982	0.000000	1982	365.130000
1983	0.000000	1983	149.544000
1984	0.000000	1984	58.566000
1985	0.143590	1985	0.000000
1986	0.000000	1986	86.886000
1987	0.000000	1987	2598.724500
1988	0.000000	1988	2771.476500
1989	0.000000	1989	2585.626500
1990	0.000000	1990	2507.746500
1991	0.000000	1991	2477.146500
1992	0.000000	1992	2557.660500
1993	0.000000	1993	61.044000
1994	0.000000	1994	325.482000
1995	0.000000	1995	42.636000
1996	0.000000	1996	148.482000
1997	0.394872	1997	0.000000
1998	0.000000	1998	47.946000
1999	0.000000	1999	141.048000
2000	0.000000	2000	79.098000
2001	0.000000	2001	346.014000
2002	0.000000	2002	119.100000
2003	0.000000	2003	183.174000
2004	1.076920	2004	0.000000
2005	0.000000	2005	135.738000
2006	0.000000	2006	174.678000
2007	0.000000	2007	60.690000
2008	0.000000	2008	277.338000
2009	0.000000	2009	62.814000
2010	0.000000	2010	150.606000
2011	0.682051	2011	0.000000
2012	0.000000	2012	46.884000
2013	0.000000	2013	25.644000
2014	0.000000	2014	135.384000
2015	0.394872	2015	0.000000
2016	0.000000	2016	2493.940500
2017	0.000000	2017	2747.758500
2018	0.000000	2018	2488.630500
2019	0.000000	2019	2569.696500
2020	0.000000	2020	2402.806500
2021	0.000000	2021	2502.436500

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Coordenada x	Valor x	Coordenada z	Valor z
2022	0.000000	2022	2571.466500
2023	0.000000	2023	50.070000
2024	0.000000	2024	265.302000
2025	0.000000	2025	50.424000
2026	0.000000	2026	124.410000
2027	0.897436	2027	0.000000
2028	0.000000	2028	36.618000
2029	0.000000	2029	125.472000
2030	0.251282	2030	0.000000
2031	0.000000	2031	75.912000
2032	0.000000	2032	337.872000
2033	0.000000	2033	45.114000
2034	0.000000	2034	153.438000
2035	1.292310	2035	0.000000
2036	0.000000	2036	75.558000
2037	0.000000	2037	41.574000
2038	0.000000	2038	154.500000
2039	0.000000	2039	57.504000
2040	0.000000	2040	313.800000
2041	0.000000	2041	63.168000
2042	0.000000	2042	140.694000
2043	0.610256	2043	0.000000
2044	0.000000	2044	53.256000
2045	0.000000	2045	145.650000
2046	0.000000	2046	89.010000
2047	0.000000	2047	360.882000
2048	0.000000	2048	101.754000
2049	0.000000	2049	160.518000
2050	1.256410	2050	0.000000
2051	0.000000	2051	116.268000
2052	0.000000	2052	34.494000
2053	0.000000	2053	175.032000
2054	0.000000	2054	45.468000
2055	0.000000	2055	233.796000
2056	0.000000	2056	53.610000
2057	0.000000	2057	146.004000
2058	1.076920	2058	0.000000
2059	0.000000	2059	70.248000
2060	0.000000	2060	156.270000
2061	0.000000	2061	67.416000
2062	0.000000	2062	338.934000
2063	0.000000	2063	101.400000
2064	0.000000	2064	154.500000
2065	0.717949	2065	0.000000
2066	0.000000	2066	100.338000
2067	0.000000	2067	153.792000
2068	0.000000	2068	57.150000
2069	0.000000	2069	321.942000
2070	0.000000	2070	88.656000

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Coordenada x	Valor x	Coordenada z	Valor z
2071	0.000000	2071	133.968000
2072	0.753846	2072	0.000000
2073	0.000000	2073	84.762000
2074	0.000000	2074	131.490000
2075	0.000000	2075	173.616000
2076	0.000000	2076	424.956000
2077	0.000000	2077	191.316000
2078	0.000000	2078	221.052000
2079	0.071795	2079	0.000000
2080	0.000000	2080	197.334000
2081	0.000000	2081	41.220000
2082	0.000000	2082	240.522000
2083	0.000000	2083	113.082000
2084	0.000000	2084	422.832000
2085	0.000000	2085	131.490000
2086	0.000000	2086	186.006000
2087	0.789744	2087	0.000000
2088	0.000000	2088	12.900000
2089	0.000000	2089	210.432000
2090	0.000000	2090	184.944000
2091	0.000000	2091	440.532000
2092	0.000000	2092	204.768000
2093	0.000000	2093	216.096000
2094	0.179487	2094	0.000000
2095	0.000000	2095	39.096000
2096	0.000000	2096	257.868000
2097	0.000000	2097	46.176000
2098	0.000000	2098	291.144000
2099	0.000000	2099	52.194000
2100	0.000000	2100	149.544000
2101	0.502564	2101	0.000000
2102	0.000000	2102	135.030000
2103	0.000000	2103	172.908000
2104	0.000000	2104	449.382000
2105	0.000000	2105	177.510000
2106	0.000000	2106	220.698000
2107	0.717949	2107	0.000000
2108	0.000000	2108	193.440000
2109	0.000000	2109	34.140000
2110	0.000000	2110	227.424000
2111	0.000000	2111	101.046000
2112	0.000000	2112	371.502000
2113	0.000000	2113	129.012000
2114	0.000000	2114	186.006000
2115	0.538462	2115	0.000000
2116	0.000000	2116	127.950000
2117	0.000000	2117	216.804000
2118	0.000000	2118	154.854000
2119	0.000000	2119	404.424000

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Coordenada x	Valor x	Coordenada z	Valor z
2120	0.000000	2120	172.554000
2121	0.000000	2121	189.546000
2122	1.076920	2122	0.000000
2123	0.000000	2123	179.634000
2124	0.000000	2124	30.954000
2125	0.000000	2125	199.458000
2126	0.000000	2126	200.874000
2127	0.000000	2127	446.196000
2128	0.000000	2128	187.422000
2129	0.000000	2129	221.052000
2130	0.574359	2130	0.000000
2131	0.000000	2131	203.352000
2132	0.000000	2132	42.636000
2133	0.000000	2133	228.132000
2134	0.000000	2134	143.880000
2135	0.000000	2135	413.982000
2136	0.000000	2136	170.784000
2137	0.000000	2137	163.350000
2138	0.179487	2138	0.000000
2139	0.000000	2139	184.944000
2140	0.000000	2140	40.512000
2141	0.000000	2141	172.200000
2142	0.000000	2142	207.600000
2143	0.000000	2143	466.374000
2144	0.000000	2144	218.574000
2145	0.000000	2145	253.974000
2146	2.010260	2146	0.000000
2147	0.000000	2147	239.460000
2148	0.000000	2148	64.230000
2149	0.000000	2149	232.380000
2150	0.000000	2150	127.596000
2151	0.000000	2151	409.380000
2152	0.000000	2152	155.562000
2153	0.000000	2153	170.076000
2154	0.215385	2154	0.000000
2155	0.000000	2155	180.342000
2156	0.000000	2156	28.476000
2157	0.000000	2157	183.882000
2158	0.000000	2158	155.562000
2159	0.000000	2159	436.284000
2160	0.000000	2160	179.988000
2161	0.000000	2161	202.644000
2162	0.179487	2162	0.000000
2163	0.000000	2163	198.042000
2164	0.000000	2164	30.954000
2165	0.000000	2165	207.954000
2166	0.000000	2166	151.314000
2167	0.000000	2167	410.442000
2168	0.000000	2168	175.386000

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Coordenada x	Valor x	Coordenada z	Valor z
2169	0.000000	2169	216.804000
2170	0.574359	2170	0.000000
2171	0.000000	2171	189.192000
2172	0.000000	2172	37.680000
2173	0.000000	2173	237.690000
2174	0.000000	2174	160.872000
2175	0.000000	2175	455.046000
2176	0.000000	2176	186.006000
2177	0.000000	2177	238.398000
2178	-0.000000	2178	0.000000
2179	0.000000	2179	223.176000
2180	0.000000	2180	217.866000
2181	0.143590	2181	0.000000
2182	0.179487	2182	0.000000
2183	0.251282	2183	0.000000
2184	0.179487	2184	0.000000
2185	0.287180	2185	0.000000
2186	0.000000	2186	61.044000
2187	0.000000	2187	107.418000
2188	0.000000	2188	118.746000
2189	0.682051	2189	0.000000
2190	0.000000	2190	64.230000
2191	0.000000	2191	91.134000
2192	0.000000	2192	132.906000
2193	0.107692	2193	0.000000
2194	0.000000	2194	49.362000
2195	0.000000	2195	218.928000
2196	0.000000	2196	47.592000
2197	0.000000	2197	102.108000
2198	0.538462	2198	0.000000
2199	0.000000	2199	39.804000
2200	0.000000	2200	128.658000
2201	0.215385	2201	0.000000
2202	0.000000	2202	13.254000
2203	0.000000	2203	73.434000
2204	0.000000	2204	51.840000
2205	0.000000	2205	71.664000
2206	0.287180	2206	0.000000
2207	0.000000	2207	32.724000
2208	0.000000	2208	49.008000
2209	0.430769	2209	0.000000
2210	0.000000	2210	66.708000
2211	0.000000	2211	187.422000
2212	0.000000	2212	92.550000
2213	0.000000	2213	83.700000
2214	0.789744	2214	0.000000
2215	0.000000	2215	64.938000
2216	0.000000	2216	69.186000
2217	0.000000	2217	134.676000

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Coordenada x	Valor x	Coordenada z	Valor z
2218	0.000000	2218	93.612000
2219	0.000000	2219	71.310000
2220	0.358974	2220	0.000000
2221	0.000000	2221	109.896000
2222	0.143590	2222	0.000000
2223	0.000000	2223	2596.954500
2224	0.179487	2224	0.000000
2225	0.000000	2225	50.778000
2226	0.000000	2226	350.616000
2227	0.000000	2227	101.046000
2228	0.000000	2228	38.034000
2229	-0.000000	2229	0.000000
2230	0.000000	2230	96.444000
2231	0.000000	2231	45.114000
2232	0.000000	2232	183.882000
2233	0.000000	2233	82.992000
2234	0.000000	2234	97.506000
2235	0.502564	2235	0.000000
2236	0.000000	2236	66.000000
2237	0.000000	2237	113.790000
2238	0.000000	2238	275.214000
2239	0.000000	2239	123.702000
2240	1.963334	2240	0.000000
2241	0.000000	2241	78.443500
2242	0.000000	2242	112.020000
2243	0.000000	2243	24.936000
2244	0.000000	2244	51.840000
2245	0.000000	2245	87.948000
2246	4.188446	2246	0.000000
2247	0.000000	2247	113.843500
2248	0.000000	2248	58.212000
2249	0.000000	2249	15.732000
2250	0.000000	2250	57.504000
2251	0.000000	2251	281.586000
2252	-0.000000	2252	0.000000
2253	0.000000	2253	38.795500
2254	0.000000	2254	42.990000
2255	0.000000	2255	8.298000
2256	0.000000	2256	162.288000
2257	0.000000	2257	421.770000
2258	0.000000	2258	243.000000
2259	0.000000	2259	181.103500
2260	0.000000	2260	227.778000
2261	0.000000	2261	68.478000
2262	0.000000	2262	128.094500
2263	0.000000	2263	358.194500
2264	0.000000	2264	189.336500
2265	0.000000	2265	32.712500
2266	0.000000	2266	188.274500

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Coordenada x	Valor x	Coordenada z	Valor z
2267	0.000000	2267	165.828000
2268	0.000000	2268	75.702500
2269	0.392667	2269	0.000000
2270	0.000000	2270	34.848000
2271	0.000000	2271	273.798000
2272	0.000000	2272	127.596000
2273	2.094220	2273	0.000000
2274	0.000000	2274	75.965500
2275	0.000000	2275	112.020000
2276	0.000000	2276	124.619500
2277	0.000000	2277	29.538000
2278	0.000000	2278	36.618000
2279	0.000000	2279	289.374000
2280	0.000000	2280	119.454000
2281	1.570670	2281	0.000000
2282	0.000000	2282	45.167500
2283	0.000000	2283	112.374000
2284	0.000000	2284	26.706000
2285	0.523556	2285	0.000000
2286	0.000000	2286	61.044000
2287	0.000000	2287	172.554000
2288	0.000000	2288	114.852000
2289	1.439780	2289	0.000000
2290	0.000000	2290	77.381500
2291	0.000000	2291	93.612000
2292	0.000000	2292	28.830000
2293	0.000000	2293	89.010000
2294	0.000000	2294	369.732000
2295	0.000000	2295	195.564000
2296	1.178000	2296	0.000000
2297	0.000000	2297	139.685500
2298	0.000000	2298	161.226000
2299	0.000000	2299	34.848000
2300	0.000000	2300	61.044000
2301	0.000000	2301	292.914000
2302	0.000000	2302	137.862000
2303	0.785333	2303	0.000000
2304	0.000000	2304	91.895500
2305	0.000000	2305	121.578000
2306	0.000000	2306	28.830000
2307	0.000000	2307	80.514000
2308	0.000000	2308	319.110000
2309	0.000000	2309	155.916000
2310	0.785333	2310	0.000000
2311	0.000000	2311	122.339500
2312	0.000000	2312	137.154000
2313	0.000000	2313	22.104000
2314	0.000000	2314	39.450000
2315	0.000000	2315	131.490000

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Coordenada x	Valor x	Coordenada z	Valor z
2316	0.000000	2316	71.310000
2317	2.356000	2317	0.000000
2318	0.000000	2318	40.565500
2319	0.000000	2319	39.096000
2320	0.000000	2320	11.484000
2321	0.000000	2321	55.026000
2322	0.000000	2322	241.230000
2323	0.000000	2323	135.738000
2324	2.879560	2324	0.000000
2325	0.000000	2325	79.505500
2326	0.000000	2326	85.824000
2327	0.000000	2327	18.918000
2328	0.000000	2328	133.968000
2329	0.000000	2329	402.300000
2330	0.000000	2330	233.796000
2331	2.748670	2331	0.000000
2332	0.000000	2332	153.491500
2333	0.000000	2333	200.021500
2334	0.000000	2334	37.326000
2335	0.000000	2335	108.126000
2336	0.000000	2336	316.986000
2337	0.000000	2337	198.042000
2338	1.308890	2338	0.000000
2339	0.000000	2339	157.739500
2340	0.000000	2340	211.140000
2341	0.000000	2341	29.892000
2342	0.000000	2342	132.198000
2343	0.000000	2343	430.620000
2344	0.000000	2344	212.910000
2345	1.178000	2345	0.000000
2346	0.000000	2346	85.523500
2347	0.000000	2347	206.892000
2348	0.000000	2348	26.706000
2349	0.000000	2349	133.260000
2350	0.000000	2350	445.488000
2351	0.000000	2351	222.114000
2352	1.701560	2352	0.000000
2353	0.000000	2353	131.189500
2354	0.000000	2354	52.548000
2355	0.000000	2355	130.074000
2356	0.000000	2356	260.700000
2357	0.000000	2357	201.582000
2358	3.795780	2358	0.000000
2359	0.000000	2359	149.597500
2360	0.000000	2360	47.946000
2361	0.000000	2361	109.188000
2362	0.000000	2362	369.024000
2363	0.000000	2363	183.528000
2364	0.916222	2364	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2365	0.000000	2365	52.247500
2366	0.000000	2366	171.492000
2367	0.000000	2367	17.856000
2368	0.000000	2368	124.410000
2369	0.000000	2369	376.104000
2370	0.000000	2370	199.458000
2371	1.178000	2371	0.000000
2372	0.000000	2372	67.823500
2373	0.000000	2373	38.034000
2374	0.000000	2374	114.498000
2375	0.000000	2375	271.674000
2376	0.000000	2376	214.680000
2377	1.701560	2377	0.000000
2378	0.000000	2378	145.349500
2379	0.000000	2379	160.518000
2380	0.000000	2380	32.724000
2381	0.392667	2381	0.000000
2382	0.523556	2382	0.000000
2383	0.000000	2383	82.428500
2384	0.000000	2384	340.848500
2385	0.000000	2385	157.476500
2386	0.000000	2386	0.144500
2387	1.963330	2387	0.000000
2388	0.000000	2388	129.156500
2389	0.000000	2389	49.362000
2390	0.000000	2390	33.576500
2391	0.000000	2391	109.188000
2392	0.000000	2392	337.518000
2393	0.000000	2393	171.846000
2394	1.047110	2394	0.000000
2395	0.000000	2395	149.951500
2396	0.000000	2396	162.996000
2397	0.000000	2397	28.476000
2398	0.000000	2398	158.040000
2399	0.000000	2399	290.436000
2400	0.000000	2400	234.504000
2401	3.141330	2401	0.000000
2402	0.000000	2402	118.445500
2403	0.000000	2403	75.558000
2404	0.000000	2404	50.424000
2405	0.000000	2405	278.400000
2406	0.000000	2406	106.356000
2407	0.916222	2407	0.000000
2408	0.000000	2408	87.293500
2409	0.000000	2409	91.134000
2410	0.000000	2410	37.326000
2411	0.000000	2411	150.960000
2412	0.000000	2412	357.342000
2413	0.000000	2413	251.142000

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Coordenada x	Valor x	Coordenada z	Valor z
2414	2.094220	2414	0.000000
2415	0.000000	2415	151.367500
2416	0.000000	2416	56.088000
2417	0.000000	2417	117.684000
2418	0.000000	2418	227.778000
2419	0.000000	2419	191.670000
2420	1.701560	2420	0.000000
2421	0.000000	2421	134.021500
2422	0.000000	2422	25.290000
2423	0.000000	2423	162.642000
2424	0.000000	2424	400.884000
2425	0.000000	2425	260.346000
2426	2.356000	2426	0.000000
2427	0.000000	2427	149.597500
2428	0.000000	2428	66.354000
2429	0.000000	2429	220.698000
2430	0.000000	2430	358.050000
2431	0.000000	2431	247.248000
2432	1.178000	2432	0.000000
2433	0.000000	2433	177.563500
2434	0.000000	2434	87.948000
2435	0.000000	2435	42.282000
2436	0.000000	2436	271.320000
2437	0.000000	2437	63.522000
2438	0.654444	2438	0.000000
2439	0.000000	2439	59.681500
2440	0.000000	2440	49.008000
2441	0.000000	2441	30.600000
2442	0.000000	2442	25.644000
2443	0.000000	2443	257.160000
2444	0.000000	2444	105.294000
2445	2.617780	2445	0.000000
2446	0.000000	2446	24.989500
2447	0.000000	2447	102.108000
2448	0.000000	2448	29.538000
2449	0.000000	2449	39.804000
2450	0.000000	2450	221.052000
2451	0.000000	2451	81.576000
2452	5.497330	2452	0.000000
2453	0.000000	2453	57.557500
2454	0.000000	2454	45.822000
2455	0.000000	2455	83.201500
2456	0.000000	2456	22.812000
2457	0.654444	2457	0.000000
2458	0.000000	2458	53.964000
2459	0.000000	2459	272.382000
2460	0.000000	2460	88.302000
2461	1.963330	2461	0.000000
2462	0.000000	2462	41.273500

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Coordenada x	Valor x	Coordenada z	Valor z
2463	0.000000	2463	82.284000
2464	0.000000	2464	39.804000
2465	0.000000	2465	55.380000
2466	0.000000	2466	235.212000
2467	0.000000	2467	95.382000
2468	1.570670	2468	0.000000
2469	0.000000	2469	83.753500
2470	0.000000	2470	61.752000
2471	0.000000	2471	39.096000
2472	0.392667	2472	0.000000
2473	0.000000	2473	52.194000
2474	0.000000	2474	278.754000
2475	0.000000	2475	61.044000
2476	2.094220	2476	0.000000
2477	0.000000	2477	54.725500
2478	0.000000	2478	71.664000
2479	0.000000	2479	96.299500
2480	0.000000	2480	39.096000
2481	0.000000	2481	46.530000
2482	0.000000	2482	267.426000
2483	0.000000	2483	91.842000
2484	1.963330	2484	0.000000
2485	0.000000	2485	67.469500
2486	0.000000	2486	62.106000
2487	0.000000	2487	42.990000
2488	0.000000	2488	58.212000
2489	0.000000	2489	294.684000
2490	0.000000	2490	110.604000
2491	2.879560	2491	0.000000
2492	0.000000	2492	47.645500
2493	0.000000	2493	105.294000
2494	0.000000	2494	82.139500
2495	0.000000	2495	52.548000
2496	0.000000	2496	29.184000
2497	0.000000	2497	182.112000
2498	0.000000	2498	76.974000
2499	2.748670	2499	0.000000
2500	0.000000	2500	62.159500
2501	0.000000	2501	73.788000
2502	0.000000	2502	48.300000
2503	0.000000	2503	42.636000
2504	0.000000	2504	278.754000
2505	0.000000	2505	116.268000
2506	1.439780	2506	0.000000
2507	0.000000	2507	53.663500
2508	0.000000	2508	95.382000
2509	0.000000	2509	37.326000
2510	0.000000	2510	52.902000
2511	0.000000	2511	282.294000

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Coordenada x	Valor x	Coordenada z	Valor z
2512	0.000000	2512	124.056000
2513	1.178000	2513	0.000000
2514	0.000000	2514	74.195500
2515	0.000000	2515	100.338000
2516	0.000000	2516	35.556000
2517	0.000000	2517	95.172500
2518	0.000000	2518	311.112500
2519	0.000000	2519	152.520500
2520	0.000000	2520	12.888500
2521	1.047110	2521	0.000000
2522	0.000000	2522	138.714500
2523	0.000000	2523	41.220000
2524	0.000000	2524	70.392500
2525	0.000000	2525	56.796000
2526	0.000000	2526	331.146000
2527	0.000000	2527	114.852000
2528	1.701560	2528	0.000000
2529	0.000000	2529	22.157500
2530	0.000000	2530	35.057500
2531	0.000000	2531	62.460000
2532	0.000000	2532	106.500500
2533	0.000000	2533	326.688500
2534	0.000000	2534	165.972500
2535	0.000000	2535	7.932500
2536	2.356000	2536	0.000000
2537	0.000000	2537	39.096000
2538	0.000000	2538	87.738500
2539	0.000000	2539	26.352000
2540	0.000000	2540	235.920000
2541	0.000000	2541	72.018000
2542	0.523556	2542	0.000000
2543	0.000000	2543	58.619500
2544	0.000000	2544	23.520000
2545	0.000000	2545	94.464500
2546	0.000000	2546	335.538500
2547	0.000000	2547	138.714500
2548	0.000000	2548	12.534500
2549	6.282670	2549	0.000000
2550	0.000000	2550	134.820500
2551	0.000000	2551	34.140000
2552	0.000000	2552	57.294500
2553	0.000000	2553	44.760000
2554	0.000000	2554	279.816000
2555	0.000000	2555	112.374000
2556	0.392667	2556	0.000000
2557	0.000000	2557	22.157500
2558	0.000000	2558	91.488000
2559	0.000000	2559	68.832000
2560	0.000000	2560	95.028000

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Coordenada x	Valor x	Coordenada z	Valor z
2561	0.000000	2561	309.198000
2562	0.000000	2562	152.376000
2563	2.094220	2563	0.000000
2564	0.000000	2564	18.617500
2565	0.000000	2565	139.632000
2566	0.000000	2566	49.571500
2567	0.000000	2567	47.946000
2568	0.000000	2568	122.430500
2569	0.000000	2569	332.352500
2570	0.000000	2570	148.626500
2571	0.000000	2571	12.888500
2572	2.879560	2572	0.000000
2573	0.000000	2573	144.732500
2574	0.000000	2574	42.636000
2575	0.000000	2575	58.002500
2576	0.000000	2576	110.250000
2577	0.000000	2577	344.952000
2578	0.000000	2578	176.802000
2579	1.308890	2579	0.000000
2580	0.000000	2580	44.813500
2581	0.000000	2581	171.138000
2582	0.000000	2582	85.325500
2583	0.000000	2583	46.884000
2584	0.000000	2584	129.156500
2585	0.000000	2585	352.530500
2586	0.000000	2586	179.778500
2587	0.000000	2587	45.810500
2588	4.712000	2588	0.000000
2589	0.000000	2589	180.840500
2590	0.000000	2590	64.230000
2591	0.000000	2591	62.250500
2592	0.000000	2592	87.240000
2593	0.000000	2593	333.624000
2594	0.000000	2594	154.854000
2595	3.534000	2595	0.000000
2596	0.000000	2596	38.087500
2597	0.000000	2597	159.810000
2598	0.000000	2598	66.563500
2599	0.000000	2599	51.840000
2600	0.000000	2600	82.638000
2601	0.000000	2601	327.960000
2602	0.000000	2602	146.712000
2603	6.413550	2603	0.000000
2604	0.000000	2604	5.519500
2605	0.000000	2605	144.942000
2606	0.000000	2606	36.473500
2607	0.000000	2607	43.344000
2608	0.000000	2608	72.870500
2609	0.000000	2609	296.598500

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Coordenada x	Valor x	Coordenada z	Valor z
2610	0.000000	2610	136.590500
2611	0.000000	2611	8.640500
2612	1.308890	2612	0.000000
2613	0.000000	2613	130.572500
2614	0.000000	2614	37.680000
2615	0.000000	2615	67.560500
2616	0.000000	2616	82.428500
2617	0.000000	2617	341.202500
2618	0.000000	2618	147.210500
2619	0.000000	2619	30.234500
2620	-0.000000	2620	0.000000
2621	0.000000	2621	164.556500
2622	0.000000	2622	47.736500
2623	0.523556	2623	0.000000
2624	0.654444	2624	0.000000
2625	0.654444	2625	0.000000
2626	0.261778	2626	0.000000
2627	0.392667	2627	0.000000
2628	0.000000	2628	72.018000
2629	0.000000	2629	158.040000
2630	2.748670	2630	0.000000
2631	0.000000	2631	89.417500
2632	0.000000	2632	95.028000
2633	0.000000	2633	180.551500
2634	0.000000	2634	52.194000
2635	0.392667	2635	0.000000
2636	0.000000	2636	76.974000
2637	0.000000	2637	211.140000
2638	0.000000	2638	114.852000
2639	0.523556	2639	0.000000
2640	0.000000	2640	106.055500
2641	0.000000	2641	87.240000
2642	0.000000	2642	64.584000
2643	0.392667	2643	0.000000
2644	0.000000	2644	71.310000
2645	0.000000	2645	96.090000
2646	0.000000	2646	149.544000
2647	1.308890	2647	0.000000
2648	0.000000	2648	136.499500
2649	0.000000	2649	110.604000
2650	0.000000	2650	185.507500
2651	0.261778	2651	0.000000
2652	0.000000	2652	112.728000
2653	0.000000	2653	198.042000
2654	0.000000	2654	178.218000
2655	1.570670	2655	0.000000
2656	0.000000	2656	124.463500
2657	0.000000	2657	19.272000
2658	0.000000	2658	127.596000

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Coordenada x	Valor x	Coordenada z	Valor z
2659	0.000000	2659	157.686000
2660	0.000000	2660	191.670000
2661	2.225110	2661	0.000000
2662	0.000000	2662	136.853500
2663	0.000000	2663	76.620000
2664	0.261778	2664	0.000000
2665	0.523556	2665	0.000000
2666	0.392667	2666	0.000000
2667	0.000000	2667	142.464000
2668	0.000000	2668	406.902000
2669	0.000000	2669	232.380000
2670	-0.000000	2670	0.000000
2671	0.000000	2671	170.129500
2672	0.000000	2672	207.954000
2673	0.000000	2673	77.328000
2674	0.000000	2674	180.696000
2675	0.000000	2675	154.854000
2676	0.654444	2676	0.000000
2677	0.000000	2677	110.657500
2678	0.000000	2678	118.038000
2679	0.000000	2679	54.318000
2680	0.000000	2680	279.420000
2681	0.000000	2681	125.340000
2682	2.095802	2682	0.000000
2683	0.000000	2683	57.240000
2684	0.000000	2684	113.460000
2685	0.000000	2685	24.900000
2686	0.000000	2686	52.260000
2687	0.000000	2687	88.980000
2688	2.794400	2688	0.000000
2689	0.000000	2689	93.240000
2690	0.000000	2690	58.740000
2691	0.000000	2691	15.540000
2692	0.000000	2692	58.020000
2693	0.000000	2693	285.900000
2694	-0.000000	2694	0.000000
2695	0.000000	2695	16.920000
2696	0.000000	2696	43.260000
2697	0.000000	2697	7.980000
2698	0.000000	2698	164.580000
2699	0.000000	2699	428.460000
2700	0.000000	2700	246.660000
2701	0.000000	2701	161.640000
2702	0.000000	2702	231.180000
2703	0.000000	2703	69.180000
2704	0.000000	2704	179.400000
2705	0.000000	2705	413.400000
2706	0.000000	2706	241.680000
2707	0.000000	2707	82.860000

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Coordenada x	Valor x	Coordenada z	Valor z
2708	0.000000	2708	240.600000
2709	0.000000	2709	195.240000
2710	0.000000	2710	126.120000
2711	0.419160	2711	0.000000
2712	0.000000	2712	34.980000
2713	0.000000	2713	277.980000
2714	0.000000	2714	129.300000
2715	2.654680	2715	0.000000
2716	0.000000	2716	54.720000
2717	0.000000	2717	113.460000
2718	0.000000	2718	103.740000
2719	0.000000	2719	29.580000
2720	0.000000	2720	36.780000
2721	0.000000	2721	293.820000
2722	0.000000	2722	121.020000
2723	1.536920	2723	0.000000
2724	0.000000	2724	23.400000
2725	0.000000	2725	113.820000
2726	0.000000	2726	26.700000
2727	0.419160	2727	0.000000
2728	0.000000	2728	61.620000
2729	0.000000	2729	175.020000
2730	0.000000	2730	116.340000
2731	1.676640	2731	0.000000
2732	0.000000	2732	56.160000
2733	0.000000	2733	94.740000
2734	0.000000	2734	28.860000
2735	0.000000	2735	90.060000
2736	0.000000	2736	375.540000
2737	0.000000	2737	198.420000
2738	1.257480	2738	0.000000
2739	0.000000	2739	119.520000
2740	0.000000	2740	163.500000
2741	0.000000	2741	34.980000
2742	0.000000	2742	61.620000
2743	0.000000	2743	297.420000
2744	0.000000	2744	139.740000
2745	0.978041	2745	0.000000
2746	0.000000	2746	70.920000
2747	0.000000	2747	123.180000
2748	0.000000	2748	28.860000
2749	0.000000	2749	81.420000
2750	0.000000	2750	324.060000
2751	0.000000	2751	158.100000
2752	0.978041	2752	0.000000
2753	0.000000	2753	101.880000
2754	0.000000	2754	139.020000
2755	0.000000	2755	22.020000
2756	0.000000	2756	39.660000

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Coordenada x	Valor x	Coordenada z	Valor z
2757	0.000000	2757	133.260000
2758	0.000000	2758	72.060000
2759	3.073840	2759	0.000000
2760	0.000000	2760	18.720000
2761	0.000000	2761	39.300000
2762	0.000000	2762	11.220000
2763	0.000000	2763	55.500000
2764	0.000000	2764	244.860000
2765	0.000000	2765	137.580000
2766	3.073840	2766	0.000000
2767	0.000000	2767	58.320000
2768	0.000000	2768	86.820000
2769	0.000000	2769	18.780000
2770	0.000000	2770	135.780000
2771	0.000000	2771	408.660000
2772	0.000000	2772	237.300000
2773	2.794400	2773	0.000000
2774	0.000000	2774	133.560000
2775	0.000000	2775	180.420000
2776	0.000000	2776	37.500000
2777	0.000000	2777	109.500000
2778	0.000000	2778	321.900000
2779	0.000000	2779	200.940000
2780	1.257480	2780	0.000000
2781	0.000000	2781	137.880000
2782	0.000000	2782	214.260000
2783	0.000000	2783	29.940000
2784	0.000000	2784	133.980000
2785	0.000000	2785	437.460000
2786	0.000000	2786	216.060000
2787	1.397200	2787	0.000000
2788	0.000000	2788	64.440000
2789	0.000000	2789	209.940000
2790	0.000000	2790	26.700000
2791	0.000000	2791	135.060000
2792	0.000000	2792	452.580000
2793	0.000000	2793	225.420000
2794	2.235520	2794	0.000000
2795	0.000000	2795	110.880000
2796	0.000000	2796	52.980000
2797	0.000000	2797	131.820000
2798	0.000000	2798	264.660000
2799	0.000000	2799	204.540000
2800	4.051880	2800	0.000000
2801	0.000000	2801	129.600000
2802	0.000000	2802	48.300000
2803	0.000000	2803	110.580000
2804	0.000000	2804	374.820000
2805	0.000000	2805	186.180000

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Coordenada x	Valor x	Coordenada z	Valor z
2806	0.838321	2806	0.000000
2807	0.000000	2807	30.600000
2808	0.000000	2808	173.940000
2809	0.000000	2809	17.700000
2810	0.000000	2810	126.060000
2811	0.000000	2811	382.020000
2812	0.000000	2812	202.380000
2813	1.257480	2813	0.000000
2814	0.000000	2814	46.440000
2815	0.000000	2815	38.220000
2816	0.000000	2816	115.980000
2817	0.000000	2817	275.820000
2818	0.000000	2818	217.860000
2819	2.375240	2819	0.000000
2820	0.000000	2820	125.280000
2821	0.000000	2821	162.780000
2822	0.000000	2822	32.820000
2823	0.279440	2823	0.000000
2824	0.558881	2824	0.000000
2825	0.000000	2825	105.900000
2826	0.000000	2826	368.700000
2827	0.000000	2827	182.220000
2828	0.000000	2828	22.680000
2829	2.235520	2829	0.000000
2830	0.000000	2830	153.420000
2831	0.000000	2831	49.740000
2832	0.000000	2832	56.220000
2833	0.000000	2833	110.580000
2834	0.000000	2834	342.780000
2835	0.000000	2835	174.300000
2836	0.698601	2836	0.000000
2837	0.000000	2837	129.960000
2838	0.000000	2838	165.300000
2839	0.000000	2839	28.500000
2840	0.000000	2840	160.260000
2841	0.000000	2841	294.900000
2842	0.000000	2842	238.020000
2843	3.353280	2843	0.000000
2844	0.000000	2844	97.920000
2845	0.000000	2845	76.380000
2846	0.000000	2846	50.820000
2847	0.000000	2847	282.660000
2848	0.000000	2848	107.700000
2849	1.257480	2849	0.000000
2850	0.000000	2850	66.240000
2851	0.000000	2851	92.220000
2852	0.000000	2852	37.500000
2853	0.000000	2853	153.060000
2854	0.000000	2854	362.940000

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Coordenada x	Valor x	Coordenada z	Valor z
2855	0.000000	2855	254.940000
2856	2.095800	2856	0.000000
2857	0.000000	2857	131.400000
2858	0.000000	2858	56.580000
2859	0.000000	2859	119.220000
2860	0.000000	2860	231.180000
2861	0.000000	2861	194.460000
2862	1.676640	2862	0.000000
2863	0.000000	2863	113.760000
2864	0.000000	2864	25.260000
2865	0.000000	2865	164.940000
2866	0.000000	2866	407.220000
2867	0.000000	2867	264.300000
2868	2.934120	2868	0.000000
2869	0.000000	2869	129.600000
2870	0.000000	2870	67.020000
2871	0.000000	2871	223.980000
2872	0.000000	2872	363.660000
2873	0.000000	2873	250.980000
2874	1.257480	2874	0.000000
2875	0.000000	2875	158.040000
2876	0.000000	2876	88.980000
2877	0.000000	2877	42.540000
2878	0.000000	2878	275.460000
2879	0.000000	2879	64.140000
2880	0.978041	2880	0.000000
2881	0.000000	2881	38.160000
2882	0.000000	2882	49.380000
2883	0.000000	2883	30.660000
2884	0.000000	2884	25.620000
2885	0.000000	2885	261.060000
2886	0.000000	2886	106.620000
2887	3.772440	2887	0.000000
2888	0.000000	2888	2.880000
2889	0.000000	2889	103.380000
2890	0.000000	2890	29.580000
2891	0.000000	2891	40.020000
2892	0.000000	2892	224.340000
2893	0.000000	2893	82.500000
2894	6.287410	2894	0.000000
2895	0.000000	2895	36.000000
2896	0.000000	2896	46.140000
2897	0.000000	2897	61.620000
2898	0.000000	2898	22.740000
2899	0.698601	2899	0.000000
2900	0.000000	2900	54.420000
2901	0.000000	2901	276.540000
2902	0.000000	2902	89.340000
2903	1.816360	2903	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2904	0.000000	2904	19.440000
2905	0.000000	2905	83.220000
2906	0.000000	2906	40.020000
2907	0.000000	2907	55.860000
2908	0.000000	2908	238.740000
2909	0.000000	2909	96.540000
2910	2.934120	2910	0.000000
2911	0.000000	2911	62.640000
2912	0.000000	2912	62.340000
2913	0.000000	2913	39.300000
2914	0.558881	2914	0.000000
2915	0.000000	2915	52.620000
2916	0.000000	2916	283.020000
2917	0.000000	2917	61.620000
2918	2.654680	2918	0.000000
2919	0.000000	2919	33.120000
2920	0.000000	2920	72.420000
2921	0.000000	2921	74.940000
2922	0.000000	2922	39.300000
2923	0.000000	2923	46.860000
2924	0.000000	2924	271.500000
2925	0.000000	2925	92.940000
2926	2.235520	2926	0.000000
2927	0.000000	2927	46.080000
2928	0.000000	2928	62.700000
2929	0.000000	2929	43.260000
2930	0.000000	2930	58.740000
2931	0.000000	2931	299.220000
2932	0.000000	2932	112.020000
2933	3.912160	2933	0.000000
2934	0.000000	2934	25.920000
2935	0.000000	2935	106.620000
2936	0.000000	2936	60.540000
2937	0.000000	2937	52.980000
2938	0.000000	2938	29.220000
2939	0.000000	2939	184.740000
2940	0.000000	2940	77.820000
2941	3.073840	2941	0.000000
2942	0.000000	2942	40.680000
2943	0.000000	2943	74.580000
2944	0.000000	2944	48.660000
2945	0.000000	2945	42.900000
2946	0.000000	2946	283.020000
2947	0.000000	2947	117.780000
2948	0.978041	2948	0.000000
2949	0.000000	2949	32.040000
2950	0.000000	2950	96.540000
2951	0.000000	2951	37.500000
2952	0.000000	2952	53.340000

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Coordenada x	Valor x	Coordenada z	Valor z
2953	0.000000	2953	286.620000
2954	0.000000	2954	125.700000
2955	1.257480	2955	0.000000
2956	0.000000	2956	52.920000
2957	0.000000	2957	101.580000
2958	0.000000	2958	35.700000
2959	0.000000	2959	118.860000
2960	0.000000	2960	338.460000
2961	0.000000	2961	177.180000
2962	0.000000	2962	35.640000
2963	1.536920	2963	0.000000
2964	0.000000	2964	163.140000
2965	0.000000	2965	41.460000
2966	0.000000	2966	93.660000
2967	0.000000	2967	57.300000
2968	0.000000	2968	336.300000
2969	0.000000	2969	116.340000
2970	2.514960	2970	0.000000
2971	0.000000	2971	-0.000000
2972	0.000000	2972	12.660000
2973	0.000000	2973	63.060000
2974	0.000000	2974	130.380000
2975	0.000000	2975	354.300000
2976	0.000000	2976	190.860000
2977	0.000000	2977	30.600000
2978	1.536920	2978	0.000000
2979	0.000000	2979	39.300000
2980	0.000000	2980	111.300000
2981	0.000000	2981	26.340000
2982	0.000000	2982	239.460000
2983	0.000000	2983	72.780000
2984	0.558881	2984	0.000000
2985	0.000000	2985	37.080000
2986	0.000000	2986	23.460000
2987	0.000000	2987	118.140000
2988	0.000000	2988	363.300000
2989	0.000000	2989	163.140000
2990	0.000000	2990	35.280000
2991	8.942090	2991	0.000000
2992	0.000000	2992	159.180000
2993	0.000000	2993	34.260000
2994	0.000000	2994	80.340000
2995	0.000000	2995	45.060000
2996	0.000000	2996	284.100000
2997	0.000000	2997	113.820000
2998	0.626660	2998	0.000000
2999	0.211661	2999	0.000000
3000	0.000000	3000	92.580000
3001	0.000000	3001	69.540000

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Coordenada x	Valor x	Coordenada z	Valor z
3002	0.000000	3002	99.780000
3003	0.000000	3003	317.580000
3004	0.000000	3004	158.100000
3005	0.000000	3005	3.600000
3006	3.912160	3006	0.000000
3007	0.000000	3007	145.140000
3008	0.000000	3008	31.020000
3009	0.000000	3009	51.900000
3010	0.000000	3010	146.580000
3011	0.000000	3011	360.060000
3012	0.000000	3012	173.220000
3013	0.000000	3013	35.640000
3014	4.191600	3014	0.000000
3015	0.000000	3015	169.260000
3016	0.000000	3016	42.900000
3017	0.000000	3017	81.060000
3018	0.000000	3018	111.660000
3019	0.000000	3019	350.340000
3020	0.000000	3020	179.340000
3021	1.117760	3021	0.000000
3022	0.000000	3022	23.040000
3023	0.000000	3023	173.580000
3024	0.000000	3024	63.780000
3025	0.000000	3025	47.220000
3026	0.000000	3026	153.420000
3027	0.000000	3027	380.580000
3028	0.000000	3028	204.900000
3029	0.000000	3029	69.120000
3030	6.566850	3030	0.000000
3031	0.000000	3031	205.980000
3032	0.000000	3032	64.860000
3033	0.000000	3033	85.380000
3034	0.000000	3034	88.260000
3035	0.000000	3035	338.820000
3036	0.000000	3036	157.020000
3037	1.536920	3037	0.000000
3038	0.000000	3038	16.200000
3039	0.000000	3039	162.060000
3040	0.000000	3040	44.700000
3041	0.000000	3041	52.260000
3042	0.000000	3042	100.500000
3043	0.000000	3043	349.980000
3044	0.000000	3044	165.660000
3045	0.000000	3045	16.920000
3046	5.169650	3046	0.000000
3047	0.000000	3047	163.860000
3048	0.000000	3048	31.020000
3049	0.000000	3049	60.540000
3050	0.000000	3050	96.180000

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Coordenada x	Valor x	Coordenada z	Valor z
3051	0.000000	3051	323.700000
3052	0.000000	3052	160.980000
3053	0.000000	3053	31.320000
3054	1.816360	3054	0.000000
3055	0.000000	3055	154.860000
3056	0.000000	3056	37.860000
3057	0.000000	3057	90.780000
3058	0.000000	3058	105.900000
3059	0.000000	3059	369.060000
3060	0.000000	3060	171.780000
3061	0.000000	3061	53.280000
3062	-0.000000	3062	0.000000
3063	0.000000	3063	189.420000
3064	0.000000	3064	70.620000
3065	0.419160	3065	0.000000
3066	0.279440	3066	0.000000
3067	0.279440	3067	0.000000
3068	0.279440	3068	0.000000
3069	0.419160	3069	0.000000
3070	0.000000	3070	72.780000
3071	0.000000	3071	160.260000
3072	2.654680	3072	0.000000
3073	0.000000	3073	68.400000
3074	0.000000	3074	96.180000
3075	0.000000	3075	160.620000
3076	0.000000	3076	52.620000
3077	0.139720	3077	0.000000
3078	0.000000	3078	77.820000
3079	0.000000	3079	214.260000
3080	0.000000	3080	116.340000
3081	0.558881	3081	0.000000
3082	0.000000	3082	85.320000
3083	0.000000	3083	88.260000
3084	0.000000	3084	65.220000
3085	0.279440	3085	0.000000
3086	0.000000	3086	72.060000
3087	0.000000	3087	97.260000
3088	0.000000	3088	151.620000
3089	0.279440	3089	0.000000
3090	0.000000	3090	116.280000
3091	0.000000	3091	112.020000
3092	0.000000	3092	165.660000
3093	0.139720	3093	0.000000
3094	0.000000	3094	114.180000
3095	0.000000	3095	200.940000
3096	0.000000	3096	180.780000
3097	1.397200	3097	0.000000
3098	0.000000	3098	104.040000
3099	0.000000	3099	19.140000

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Coordenada x	Valor x	Coordenada z	Valor z
3100	0.000000	3100	129.300000
3101	0.000000	3101	159.900000
3102	0.000000	3102	194.460000
3103	1.397200	3103	0.000000
3104	0.000000	3104	116.640000
3105	0.000000	3105	77.460000
3106	0.139720	3106	0.000000
3107	0.419160	3107	0.000000
3108	0.419160	3108	0.000000
3109	0.000000	3109	144.420000
3110	0.000000	3110	413.340000
3111	0.000000	3111	235.860000
3112	-0.000000	3112	0.000000
3113	0.000000	3113	150.480000
3114	0.000000	3114	211.020000
3115	0.000000	3115	78.180000
3116	0.000000	3116	183.300000
3117	0.000000	3117	157.020000
3118	0.698601	3118	0.000000
3119	0.000000	3119	90.000000
3120	0.000000	3120	119.580000
3121	0.000000	3121	54.780000
3122	0.000000	3122	275.214000
3123	0.000000	3123	123.702000
3124	-0.000000	3124	0.000000
3125	0.000000	3125	42.761874
3126	0.000000	3126	112.020000
3127	0.000000	3127	24.936000
3128	0.000000	3128	51.840000
3129	0.000000	3129	87.948000
3130	-0.000000	3130	0.000000
3131	0.000000	3131	78.161874
3132	0.000000	3132	58.212000
3133	0.000000	3133	15.732000
3134	0.000000	3134	57.504000
3135	0.000000	3135	281.586000
3136	-0.000000	3136	0.000000
3137	0.000000	3137	3.113874
3138	0.000000	3138	42.990000
3139	0.000000	3139	8.298000
3140	0.000000	3140	162.288000
3141	0.000000	3141	421.770000
3142	0.000000	3142	243.000000
3143	0.000000	3143	145.421874
3144	0.000000	3144	227.778000
3145	0.000000	3145	68.478000
3146	0.000000	3146	190.836126
3147	0.000000	3147	420.936126
3148	0.000000	3148	252.078126

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Coordenada x	Valor x	Coordenada z	Valor z
3149	0.000000	3149	95.454126
3150	0.000000	3150	251.016126
3151	0.000000	3151	192.888000
3152	0.000000	3152	138.444126
3153	0.000000	3153	2244.638000
3154	0.000000	3154	2181.626000
3155	0.000000	3155	2420.576000
3156	0.000000	3156	2274.374000
3157	0.000000	3157	2146.778000
3158	0.000000	3158	2187.061874
3159	0.000000	3159	2258.798000
3160	0.000000	3160	2235.715874
3161	0.000000	3161	2176.316000
3162	0.000000	3162	2197.556000
3163	0.000000	3163	2450.312000
3164	0.000000	3164	2280.392000
3165	0.000000	3165	2160.938000
3166	0.000000	3166	2170.423874
3167	0.000000	3167	2273.312000
3168	0.000000	3168	2187.644000
3169	0.000000	3169	2223.044000
3170	0.000000	3170	2261.630000
3171	0.000000	3171	2373.140000
3172	0.000000	3172	2315.438000
3173	0.000000	3173	2200.586000
3174	0.000000	3174	2242.285874
3175	0.000000	3175	2294.198000
3176	0.000000	3176	2229.416000
3177	0.000000	3177	2211.716000
3178	0.000000	3178	2492.438000
3179	0.000000	3179	2318.270000
3180	0.000000	3180	2122.706000
3181	0.000000	3181	2226.709874
3182	0.000000	3182	2283.932000
3183	0.000000	3183	2157.554000
3184	0.000000	3184	2205.344000
3185	0.000000	3185	2437.214000
3186	0.000000	3186	2282.162000
3187	0.000000	3187	2144.300000
3188	0.000000	3188	2200.513874
3189	0.000000	3189	2265.878000
3190	0.000000	3190	2173.130000
3191	0.000000	3191	2224.460000
3192	0.000000	3192	2463.056000
3193	0.000000	3193	2299.862000
3194	0.000000	3194	2143.946000
3195	0.000000	3195	2230.603874
3196	0.000000	3196	2281.100000
3197	0.000000	3197	2166.050000

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Coordenada x	Valor x	Coordenada z	Valor z
3198	0.000000	3198	2281.454000
3199	0.000000	3199	2373.494000
3200	0.000000	3200	2313.314000
3201	0.000000	3201	2242.004000
3202	0.000000	3202	2246.887874
3203	0.000000	3203	2281.100000
3204	0.000000	3204	2253.488000
3205	0.000000	3205	2230.124000
3206	0.000000	3206	2416.328000
3207	0.000000	3207	2310.836000
3208	0.000000	3208	2175.098000
3209	0.000000	3209	2218.921874
3210	0.000000	3210	2260.922000
3211	0.000000	3211	2194.016000
3212	0.000000	3212	2227.646000
3213	0.000000	3213	2495.978000
3214	0.000000	3214	2327.474000
3215	0.000000	3215	2093.678000
3216	0.000000	3216	2211.487874
3217	0.000000	3217	2258.017874
3218	0.000000	3218	2131.004000
3219	0.000000	3219	2236.142000
3220	0.000000	3220	2445.002000
3221	0.000000	3221	2326.058000
3222	0.000000	3222	2128.016000
3223	0.000000	3223	2250.073874
3224	0.000000	3224	2339.156000
3225	0.000000	3225	2157.908000
3226	0.000000	3226	2261.984000
3227	0.000000	3227	2560.406000
3228	0.000000	3228	2342.696000
3229	0.000000	3229	2129.786000
3230	0.000000	3230	2179.627874
3231	0.000000	3231	2336.678000
3232	0.000000	3232	2156.492000
3233	0.000000	3233	2246.762000
3234	0.000000	3234	2558.990000
3235	0.000000	3235	2335.616000
3236	0.000000	3236	2113.502000
3237	0.000000	3237	2209.009874
3238	0.000000	3238	2166.050000
3239	0.000000	3239	2316.854000
3240	0.000000	3240	2447.480000
3241	0.000000	3241	2388.362000
3242	0.000000	3242	2186.780000
3243	0.000000	3243	2300.695874
3244	0.000000	3244	2234.726000
3245	0.000000	3245	2261.984000
3246	0.000000	3246	2521.820000

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Coordenada x	Valor x	Coordenada z	Valor z
3247	0.000000	3247	2336.324000
3248	0.000000	3248	2152.796000
3249	0.000000	3249	2169.361874
3250	0.000000	3250	2324.288000
3251	0.000000	3251	2170.652000
3252	0.000000	3252	2257.028000
3253	0.000000	3253	2508.722000
3254	0.000000	3254	2332.076000
3255	0.000000	3255	2132.618000
3256	0.000000	3256	2164.759874
3257	0.000000	3257	2170.652000
3258	0.000000	3258	2311.190000
3259	0.000000	3259	2468.366000
3260	0.000000	3260	2411.372000
3261	0.000000	3261	2196.692000
3262	0.000000	3262	2306.359874
3263	0.000000	3263	2357.210000
3264	0.000000	3264	2229.416000
3265	0.000000	3265	2169.080000
3266	0.000000	3266	2309.420000
3267	0.000000	3267	118.110126
3268	0.000000	3268	376.530126
3269	0.000000	3269	193.158126
3270	0.000000	3270	35.826126
3271	0.844995	3271	0.000000
3272	0.000000	3272	164.838126
3273	0.000000	3273	49.362000
3274	0.000000	3274	69.258126
3275	0.000000	3275	2253.134000
3276	0.000000	3276	2481.464000
3277	0.000000	3277	2315.792000
3278	0.000000	3278	2143.946000
3279	0.000000	3279	2258.215874
3280	0.000000	3280	2306.942000
3281	0.000000	3281	2172.422000
3282	0.000000	3282	158.040000
3283	0.000000	3283	290.436000
3284	0.000000	3284	234.504000
3285	0.027554	3285	0.000000
3286	0.000000	3286	82.763874
3287	0.000000	3287	75.558000
3288	0.000000	3288	2213.486000
3289	0.000000	3289	2441.462000
3290	0.000000	3290	2269.418000
3291	0.000000	3291	2163.062000
3292	0.000000	3292	2214.673874
3293	0.000000	3293	2254.196000
3294	0.000000	3294	2200.388000
3295	0.000000	3295	2280.038000

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Coordenada x	Valor x	Coordenada z	Valor z
3296	0.000000	3296	2486.420000
3297	0.000000	3297	2380.220000
3298	0.000000	3298	2129.078000
3299	0.000000	3299	2244.763874
3300	0.000000	3300	2185.166000
3301	0.000000	3301	2348.714000
3302	0.000000	3302	2458.808000
3303	0.000000	3303	2422.700000
3304	0.000000	3304	2231.030000
3305	0.000000	3305	2329.369874
3306	0.000000	3306	2256.320000
3307	0.000000	3307	2310.836000
3308	0.000000	3308	2549.078000
3309	0.000000	3309	2408.540000
3310	0.000000	3310	2148.194000
3311	0.000000	3311	2262.109874
3312	0.000000	3312	2214.548000
3313	0.000000	3313	2337.386000
3314	0.000000	3314	2474.738000
3315	0.000000	3315	2363.936000
3316	0.000000	3316	2116.688000
3317	0.000000	3317	2258.569874
3318	0.000000	3318	2204.636000
3319	0.000000	3319	2246.762000
3320	0.000000	3320	2475.800000
3321	0.000000	3321	2268.002000
3322	0.000000	3322	2204.480000
3323	0.000000	3323	2228.479874
3324	0.000000	3324	2253.488000
3325	0.000000	3325	2235.080000
3326	0.000000	3326	2206.760000
3327	0.000000	3327	2438.276000
3328	0.000000	3328	2286.410000
3329	0.000000	3329	2181.116000
3330	0.000000	3330	2170.423874
3331	0.000000	3331	2283.224000
3332	0.000000	3332	2210.654000
3333	0.000000	3333	2222.336000
3334	0.000000	3334	2403.584000
3335	0.000000	3335	2264.108000
3336	0.000000	3336	2182.532000
3337	0.000000	3337	2204.407874
3338	0.000000	3338	2228.354000
3339	0.000000	3339	2230.051874
3340	0.000000	3340	2205.344000
3341	0.000000	3341	2220.212000
3342	0.000000	3342	2232.602000
3343	0.000000	3343	2451.020000
3344	0.000000	3344	2266.940000

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Coordenada x	Valor x	Coordenada z	Valor z
3345	0.000000	3345	2178.638000
3346	0.000000	3346	2184.229874
3347	0.000000	3347	2260.922000
3348	0.000000	3348	2218.442000
3349	0.000000	3349	2243.576000
3350	0.000000	3350	2423.408000
3351	0.000000	3351	2283.578000
3352	0.000000	3352	2188.196000
3353	0.000000	3353	2236.267874
3354	0.000000	3354	2249.948000
3355	0.000000	3355	2227.292000
3356	0.000000	3356	2206.052000
3357	0.000000	3357	2230.478000
3358	0.000000	3358	2457.038000
3359	0.000000	3359	2239.328000
3360	0.000000	3360	2178.284000
3361	0.000000	3361	2197.327874
3362	0.000000	3362	2249.948000
3363	0.000000	3363	2238.901874
3364	0.000000	3364	2217.380000
3365	0.000000	3365	2230.478000
3366	0.000000	3366	2451.374000
3367	0.000000	3367	2275.790000
3368	0.000000	3368	2183.948000
3369	0.000000	3369	2215.735874
3370	0.000000	3370	2246.054000
3371	0.000000	3371	2226.938000
3372	0.000000	3372	58.212000
3373	0.000000	3373	294.684000
3374	0.000000	3374	110.604000
3375	0.128586	3375	0.000000
3376	0.000000	3376	11.963874
3377	0.000000	3377	105.294000
3378	0.000000	3378	46.457874
3379	0.000000	3379	52.548000
3380	0.000000	3380	2260.922000
3381	0.000000	3381	2413.850000
3382	0.000000	3382	2308.712000
3383	0.000000	3383	2231.738000
3384	0.000000	3384	2258.215874
3385	0.000000	3385	2305.526000
3386	0.000000	3386	2280.038000
3387	0.000000	3387	2213.132000
3388	0.000000	3388	2449.250000
3389	0.000000	3389	2286.764000
3390	0.000000	3390	2170.496000
3391	0.000000	3391	2188.477874
3392	0.000000	3392	2265.878000
3393	0.000000	3393	2207.822000

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Coordenada x	Valor x	Coordenada z	Valor z
3394	0.000000	3394	2207.822000
3395	0.000000	3395	2437.214000
3396	0.000000	3396	2278.976000
3397	0.000000	3397	2154.920000
3398	0.000000	3398	2193.433874
3399	0.000000	3399	2255.258000
3400	0.000000	3400	2190.476000
3401	0.000000	3401	130.854126
3402	0.000000	3402	346.794126
3403	0.000000	3403	188.202126
3404	0.000000	3404	48.570126
3405	0.018370	3405	0.000000
3406	0.000000	3406	174.396126
3407	0.000000	3407	41.220000
3408	0.000000	3408	106.074126
3409	0.000000	3409	2259.506000
3410	0.000000	3410	2533.856000
3411	0.000000	3411	2317.562000
3412	0.000000	3412	2202.710000
3413	0.000000	3413	2189.185874
3414	0.000000	3414	2202.085874
3415	0.000000	3415	2265.170000
3416	0.000000	3416	2291.720000
3417	0.000000	3417	2511.908000
3418	0.000000	3418	2351.192000
3419	0.000000	3419	2193.152000
3420	0.000000	3420	2149.537874
3421	0.000000	3421	2188.633874
3422	0.000000	3422	2272.958000
3423	0.000000	3423	26.352000
3424	0.000000	3424	235.920000
3425	0.000000	3425	72.018000
3426	-0.000000	3426	0.000000
3427	0.000000	3427	22.937874
3428	0.000000	3428	23.520000
3429	0.000000	3429	130.146126
3430	0.000000	3430	371.220126
3431	0.000000	3431	174.396126
3432	0.000000	3432	48.216126
3433	2.746230	3433	0.000000
3434	0.000000	3434	170.502126
3435	0.000000	3435	34.140000
3436	0.000000	3436	92.976126
3437	0.000000	3437	2239.682000
3438	0.000000	3438	2474.738000
3439	0.000000	3439	2307.296000
3440	0.000000	3440	2194.922000
3441	0.000000	3441	2181.397874
3442	0.000000	3442	2286.410000

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Coordenada x	Valor x	Coordenada z	Valor z
3443	0.000000	3443	2263.754000
3444	0.000000	3444	112.092126
3445	0.000000	3445	326.262126
3446	0.000000	3446	169.440126
3447	0.000000	3447	17.064126
3448	0.413313	3448	0.000000
3449	0.000000	3449	156.696126
3450	0.000000	3450	30.954000
3451	0.000000	3451	65.010126
3452	0.000000	3452	158.112126
3453	0.000000	3453	368.034126
3454	0.000000	3454	184.308126
3455	0.000000	3455	48.570126
3456	0.854180	3456	0.000000
3457	0.000000	3457	180.414126
3458	0.000000	3458	42.636000
3459	0.000000	3459	93.684126
3460	0.000000	3460	2266.586000
3461	0.000000	3461	2501.288000
3462	0.000000	3462	2333.138000
3463	0.000000	3463	2156.336000
3464	0.000000	3464	2165.467874
3465	0.000000	3465	2327.474000
3466	0.000000	3466	2205.979874
3467	0.000000	3467	2203.220000
3468	0.000000	3468	164.838126
3469	0.000000	3469	388.212126
3470	0.000000	3470	215.460126
3471	0.000000	3471	81.492126
3472	3.049330	3472	0.000000
3473	0.000000	3473	216.522126
3474	0.000000	3474	64.230000
3475	0.000000	3475	97.932126
3476	0.000000	3476	87.240000
3477	0.000000	3477	333.624000
3478	0.000000	3478	154.854000
3479	0.679670	3479	0.000000
3480	0.000000	3480	2.405874
3481	0.000000	3481	159.810000
3482	0.000000	3482	30.881874
3483	0.000000	3483	51.840000
3484	0.000000	3484	112.800126
3485	0.000000	3485	358.122126
3486	0.000000	3486	176.874126
3487	0.000000	3487	30.162126
3488	0.128586	3488	0.000000
3489	0.000000	3489	175.104126
3490	0.000000	3490	30.954000
3491	0.000000	3491	73.506126

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Coordenada x	Valor x	Coordenada z	Valor z
3492	0.000000	3492	2268.356000
3493	0.000000	3493	2492.084000
3494	0.000000	3494	2332.076000
3495	0.000000	3495	2204.126000
3496	0.000000	3496	2159.803874
3497	0.000000	3497	2326.058000
3498	0.000000	3498	2197.483874
3499	0.000000	3499	2263.046000
3500	0.000000	3500	118.110126
3501	0.000000	3501	376.884126
3502	0.000000	3502	182.892126
3503	0.000000	3503	65.916126
3504	-0.000000	3504	0.000000
3505	0.000000	3505	200.238126
3506	0.000000	3506	83.418126
3507	0.000000	3507	2425.886000
3508	0.000000	3508	2408.894000
3509	0.000000	3509	2399.336000
3510	0.000000	3510	2458.808000
3511	0.000000	3511	2395.442000
3512	0.000000	3512	2329.952000
3513	0.000000	3513	2415.974000
3514	0.000000	3514	2257.934000
3515	0.000000	3515	2311.669874
3516	0.000000	3516	2352.962000
3517	0.000000	3517	2402.803874
3518	0.000000	3518	2310.128000
3519	0.000000	3519	2509.430000
3520	0.000000	3520	2312.252000
3521	0.000000	3521	2446.418000
3522	0.000000	3522	2350.130000
3523	0.000000	3523	2235.278000
3524	0.000000	3524	2305.651874
3525	0.000000	3525	2322.518000
3526	0.000000	3526	2299.862000
3527	0.000000	3527	2391.548000
3528	0.000000	3528	2488.544000
3529	0.000000	3529	2513.324000
3530	0.000000	3530	2566.778000
3531	0.000000	3531	2417.234000
3532	0.000000	3532	2518.051874
3533	0.000000	3533	2527.838000
3534	0.000000	3534	2567.059874
3535	0.000000	3535	2459.162000
3536	0.000000	3536	2328.182000
3537	0.000000	3537	2413.496000
3538	0.000000	3538	2393.672000
3539	0.000000	3539	2215.454000
3540	0.000000	3540	2304.235874

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Coordenada x	Valor x	Coordenada z	Valor z
3541	0.000000	3541	2234.726000
3542	0.000000	3542	2443.586000
3543	0.000000	3543	2473.676000
3544	0.000000	3544	2507.660000
3545	0.000000	3545	2315.990000
3546	0.000000	3546	2417.161874
3547	0.000000	3547	2392.610000
3548	0.000000	3548	2412.434000
3549	0.000000	3549	2205.896000
3550	0.000000	3550	2433.674000
3551	0.000000	3551	142.464000
3552	0.000000	3552	406.902000
3553	0.000000	3553	232.380000
3554	-0.000000	3554	0.000000
3555	0.000000	3555	134.447874
3556	0.000000	3556	207.954000
3557	0.000000	3557	2281.808000
3558	0.000000	3558	2385.176000
3559	0.000000	3559	2359.334000
3560	0.000000	3560	2204.480000
3561	0.000000	3561	2279.455874
3562	0.000000	3562	2322.518000
3563	0.000000	3563	2258.798000
3564	0.000000	3564	306.058000
3565	0.000000	3565	118.600000
3566	-0.000000	3566	0.000000
3567	0.000000	3567	30.772784
3568	0.000000	3568	60.496000
3569	0.000000	3569	24.672000
3570	0.000000	3570	54.920000
3571	0.000000	3571	78.402000
3572	-0.000000	3572	0.000000
3573	0.000000	3573	70.572784
3574	-0.000000	3574	0.000000
3575	0.000000	3575	14.324000
3576	0.000000	3576	78.402000
3577	0.000000	3577	330.336000
3578	0.000000	3578	17.114000
3579	0.000000	3579	3.310784
3580	-0.000000	3580	0.000000
3581	0.000000	3581	23.080000
3582	0.000000	3582	179.096000
3583	0.000000	3583	470.830000
3584	0.000000	3584	252.726000
3585	0.000000	3585	146.192784
3586	0.000000	3586	190.642000
3587	0.000000	3587	73.626000
3588	0.000000	3588	225.133216
3589	0.000000	3589	483.833216

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Coordenada x	Valor x	Coordenada z	Valor z
3590	0.000000	3590	276.873216
3591	0.000000	3591	121.259216
3592	0.000000	3592	230.709216
3593	0.000000	3593	210.136000
3594	0.000000	3594	166.229216
3595	0.000000	3595	2429.848500
3596	0.000000	3596	2359.004500
3597	0.000000	3597	2627.654500
3598	0.000000	3598	2446.166500
3599	0.000000	3599	2323.188500
3600	0.000000	3600	2351.175284
3601	0.000000	3601	2383.684500
3602	0.000000	3602	2402.513284
3603	0.000000	3603	2353.034500
3604	0.000000	3604	2376.914500
3605	0.000000	3605	2661.086500
3606	0.000000	3606	2452.932500
3607	0.000000	3607	2339.108500
3608	0.000000	3608	2332.469284
3609	0.000000	3609	2400.002500
3610	0.000000	3610	2365.770500
3611	0.000000	3611	2405.570500
3612	0.000000	3612	2448.952500
3613	0.000000	3613	2574.322500
3614	0.000000	3614	2492.334500
3615	0.000000	3615	2383.684500
3616	0.000000	3616	2413.263284
3617	0.000000	3617	2423.484500
3618	0.000000	3618	2412.734500
3619	0.000000	3619	2392.834500
3620	0.000000	3620	2708.448500
3621	0.000000	3621	2495.518500
3622	0.000000	3622	2296.124500
3623	0.000000	3623	2395.751284
3624	0.000000	3624	2411.942500
3625	0.000000	3625	2331.940500
3626	0.000000	3626	2385.670500
3627	0.000000	3627	2646.360500
3628	0.000000	3628	2454.922500
3629	0.000000	3629	2320.402500
3630	0.000000	3630	2366.299284
3631	0.000000	3631	2391.644500
3632	0.000000	3632	2349.452500
3633	0.000000	3633	2407.162500
3634	0.000000	3634	2675.414500
3635	0.000000	3635	2474.822500
3636	0.000000	3636	2320.004500
3637	0.000000	3637	2400.129284
3638	0.000000	3638	2408.758500

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Coordenada x	Valor x	Coordenada z	Valor z
3639	0.000000	3639	2341.492500
3640	0.000000	3640	2471.240500
3641	0.000000	3641	2574.720500
3642	0.000000	3642	2489.946500
3643	0.000000	3643	2430.250500
3644	0.000000	3644	2418.437284
3645	0.000000	3645	2408.758500
3646	0.000000	3646	2439.798500
3647	0.000000	3647	2413.530500
3648	0.000000	3648	2622.878500
3649	0.000000	3649	2487.160500
3650	0.000000	3650	2355.028500
3651	0.000000	3651	2386.995284
3652	0.000000	3652	2386.072500
3653	0.000000	3653	2372.934500
3654	0.000000	3654	2410.744500
3655	0.000000	3655	2712.428500
3656	0.000000	3656	2505.866500
3657	0.000000	3657	2263.488500
3658	0.000000	3658	2378.637284
3659	0.000000	3659	2427.587284
3660	0.000000	3660	2302.090500
3661	0.000000	3661	2420.296500
3662	0.000000	3662	2655.116500
3663	0.000000	3663	2504.274500
3664	0.000000	3664	2302.094500
3665	0.000000	3665	2422.019284
3666	0.000000	3666	2474.030500
3667	0.000000	3667	2332.338500
3668	0.000000	3668	2449.350500
3669	0.000000	3669	2784.864500
3670	0.000000	3670	2522.980500
3671	0.000000	3671	2304.084500
3672	0.000000	3672	2342.817284
3673	0.000000	3673	2471.244500
3674	0.000000	3674	2330.746500
3675	0.000000	3675	2432.236500
3676	0.000000	3676	2783.272500
3677	0.000000	3677	2515.020500
3678	0.000000	3678	2285.776500
3679	0.000000	3679	2375.851284
3680	0.000000	3680	2341.492500
3681	0.000000	3681	2511.040500
3682	0.000000	3682	2657.902500
3683	0.000000	3683	2574.322500
3684	0.000000	3684	2368.162500
3685	0.000000	3685	2478.933284
3686	0.000000	3686	2418.704500
3687	0.000000	3687	2449.350500

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Coordenada x	Valor x	Coordenada z	Valor z
3688	0.000000	3688	2741.482500
3689	0.000000	3689	2515.816500
3690	0.000000	3690	2329.954500
3691	0.000000	3691	2331.275284
3692	0.000000	3692	2457.314500
3693	0.000000	3693	2346.666500
3694	0.000000	3694	2443.778500
3695	0.000000	3695	2726.756500
3696	0.000000	3696	2511.040500
3697	0.000000	3697	2307.268500
3698	0.000000	3698	2326.101284
3699	0.000000	3699	2346.666500
3700	0.000000	3700	2504.672500
3701	0.000000	3701	2681.384500
3702	0.000000	3702	2600.192500
3703	0.000000	3703	2379.306500
3704	0.000000	3704	2485.301284
3705	0.000000	3705	2494.328500
3706	0.000000	3706	2412.734500
3707	0.000000	3707	2348.262500
3708	0.000000	3708	2440.598500
3709	0.000000	3709	146.731216
3710	0.000000	3710	437.271216
3711	0.000000	3711	213.993216
3712	0.000000	3712	57.583216
3713	1.599280	3713	0.000000
3714	0.000000	3714	137.183216
3715	0.000000	3715	52.134000
3716	0.000000	3716	91.807216
3717	0.000000	3717	2439.400500
3718	0.000000	3718	2696.110500
3719	0.000000	3719	2492.732500
3720	0.000000	3720	2320.004500
3721	0.000000	3721	2431.173284
3722	0.000000	3722	2437.812500
3723	0.000000	3723	2348.656500
3724	0.000000	3724	174.320000
3725	0.000000	3725	323.172000
3726	0.000000	3726	243.174000
3727	0.089560	3727	0.000000
3728	0.000000	3728	75.746784
3729	0.000000	3729	81.586000
3730	0.000000	3730	2394.824500
3731	0.000000	3731	2651.136500
3732	0.000000	3732	2440.594500
3733	0.000000	3733	2341.496500
3734	0.000000	3734	2382.219284
3735	0.000000	3735	2378.510500
3736	0.000000	3736	2380.098500

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Coordenada x	Valor x	Coordenada z	Valor z
3737	0.000000	3737	2469.648500
3738	0.000000	3738	2701.682500
3739	0.000000	3739	2565.168500
3740	0.000000	3740	2303.288500
3741	0.000000	3741	2416.049284
3742	0.000000	3742	2362.984500
3743	0.000000	3743	2546.860500
3744	0.000000	3744	2670.638500
3745	0.000000	3745	2612.928500
3746	0.000000	3746	2417.912500
3747	0.000000	3747	2511.171284
3748	0.000000	3748	2442.982500
3749	0.000000	3749	2504.274500
3750	0.000000	3750	2772.128500
3751	0.000000	3751	2597.008500
3752	0.000000	3752	2324.780500
3753	0.000000	3753	2435.551284
3754	0.000000	3754	2396.018500
3755	0.000000	3755	2534.124500
3756	0.000000	3756	2688.548500
3757	0.000000	3757	2546.860500
3758	0.000000	3758	2289.358500
3759	0.000000	3759	2431.571284
3760	0.000000	3760	2384.874500
3761	0.000000	3761	2432.236500
3762	0.000000	3762	2689.742500
3763	0.000000	3763	2439.002500
3764	0.000000	3764	2388.062500
3765	0.000000	3765	2397.741284
3766	0.000000	3766	2377.714500
3767	0.000000	3767	2419.102500
3768	0.000000	3768	2387.262500
3769	0.000000	3769	2647.554500
3770	0.000000	3770	2459.698500
3771	0.000000	3771	2361.794500
3772	0.000000	3772	2332.469284
3773	0.000000	3773	2411.146500
3774	0.000000	3774	2391.640500
3775	0.000000	3775	2404.774500
3776	0.000000	3776	2608.550500
3777	0.000000	3777	2434.624500
3778	0.000000	3778	2363.386500
3779	0.000000	3779	2370.677284
3780	0.000000	3780	2349.456500
3781	0.000000	3781	2396.145284
3782	0.000000	3782	2385.670500
3783	0.000000	3783	2402.386500
3784	0.000000	3784	2416.316500
3785	0.000000	3785	2661.882500

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Coordenada x	Valor x	Coordenada z	Valor z
3786	0.000000	3786	2437.808500
3787	0.000000	3787	2359.008500
3788	0.000000	3788	2347.991284
3789	0.000000	3789	2386.072500
3790	0.000000	3790	2400.396500
3791	0.000000	3791	2428.654500
3792	0.000000	3792	2630.838500
3793	0.000000	3793	2456.514500
3794	0.000000	3794	2369.754500
3795	0.000000	3795	2406.497284
3796	0.000000	3796	2373.734500
3797	0.000000	3797	2410.346500
3798	0.000000	3798	2386.466500
3799	0.000000	3799	2413.928500
3800	0.000000	3800	2668.648500
3801	0.000000	3801	2406.764500
3802	0.000000	3802	2358.610500
3803	0.000000	3803	2362.717284
3804	0.000000	3804	2373.734500
3805	0.000000	3805	2406.095284
3806	0.000000	3806	2399.202500
3807	0.000000	3807	2413.928500
3808	0.000000	3808	2662.280500
3809	0.000000	3809	2447.758500
3810	0.000000	3810	2364.978500
3811	0.000000	3811	2383.413284
3812	0.000000	3812	2369.356500
3813	0.000000	3813	2409.948500
3814	0.000000	3814	2419.102500
3815	0.000000	3815	2684.966500
3816	0.000000	3816	2460.892500
3817	0.000000	3817	2357.018500
3818	0.000000	3818	2353.165284
3819	0.000000	3819	2409.952500
3820	0.000000	3820	2388.583284
3821	0.000000	3821	2412.734500
3822	0.000000	3822	2448.156500
3823	0.000000	3823	2620.092500
3824	0.000000	3824	2484.772500
3825	0.000000	3825	2418.708500
3826	0.000000	3826	2431.173284
3827	0.000000	3827	2436.220500
3828	0.000000	3828	2469.648500
3829	0.000000	3829	2394.426500
3830	0.000000	3830	2659.892500
3831	0.000000	3831	2460.096500
3832	0.000000	3832	2349.854500
3833	0.000000	3833	2352.767284
3834	0.000000	3834	2391.644500

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Coordenada x	Valor x	Coordenada z	Valor z
3835	0.000000	3835	2388.456500
3836	0.000000	3836	2388.456500
3837	0.000000	3837	2646.360500
3838	0.000000	3838	2451.340500
3839	0.000000	3839	2332.342500
3840	0.000000	3840	2358.339284
3841	0.000000	3841	2379.704500
3842	0.000000	3842	2368.954500
3843	0.000000	3843	161.059216
3844	0.000000	3844	403.839216
3845	0.000000	3845	208.421216
3846	0.000000	3846	71.911216
3847	0.268680	3847	0.000000
3848	0.000000	3848	147.929216
3849	0.000000	3849	42.980000
3850	0.000000	3850	133.199216
3851	0.000000	3851	2446.564500
3852	0.000000	3852	2755.014500
3853	0.000000	3853	2494.722500
3854	0.000000	3854	2386.072500
3855	0.000000	3855	2353.563284
3856	0.000000	3856	2364.703284
3857	0.000000	3857	2452.932500
3858	0.000000	3858	2482.782500
3859	0.000000	3859	2730.338500
3860	0.000000	3860	2532.532500
3861	0.000000	3861	2375.326500
3862	0.000000	3862	2308.987284
3863	0.000000	3863	2349.579284
3864	0.000000	3864	2461.688500
3865	0.000000	3865	88.348000
3866	0.000000	3866	323.964000
3867	0.000000	3867	122.576000
3868	0.000000	3868	62.084000
3869	0.000000	3869	70.568784
3870	0.000000	3870	85.164000
3871	0.000000	3871	160.263216
3872	0.000000	3872	431.301216
3873	0.000000	3873	192.899216
3874	0.000000	3874	71.513216
3875	1.074720	3875	0.000000
3876	0.000000	3876	143.551216
3877	0.000000	3877	35.020000
3878	0.000000	3878	118.473216
3879	0.000000	3879	2424.276500
3880	0.000000	3880	2688.548500
3881	0.000000	3881	2483.180500
3882	0.000000	3882	2377.316500
3883	0.000000	3883	2344.807284

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Coordenada x	Valor x	Coordenada z	Valor z
3884	0.000000	3884	2414.728500
3885	0.000000	3885	2451.340500
3886	0.000000	3886	139.965216
3887	0.000000	3887	380.755216
3888	0.000000	3888	187.327216
3889	0.000000	3889	36.489216
3890	0.498976	3890	0.000000
3891	0.000000	3891	128.029216
3892	0.000000	3892	31.438000
3893	0.000000	3893	87.031216
3894	0.000000	3894	191.705216
3895	0.000000	3895	427.719216
3896	0.000000	3896	204.043216
3897	0.000000	3897	71.911216
3898	2.904300	3898	0.000000
3899	0.000000	3899	154.695216
3900	0.000000	3900	44.572000
3901	0.000000	3901	119.269216
3902	0.000000	3902	127.627216
3903	0.000000	3903	391.501216
3904	0.000000	3904	185.337216
3905	0.000000	3905	7.037216
3906	0.038383	3906	0.000000
3907	0.000000	3907	133.999216
3908	0.000000	3908	42.184000
3909	0.000000	3909	56.385216
3910	0.000000	3910	199.267216
3911	0.000000	3911	450.405216
3912	0.000000	3912	239.067216
3913	0.000000	3913	108.925216
3914	4.196520	3914	0.000000
3915	0.000000	3915	195.291216
3916	0.000000	3916	68.850000
3917	0.000000	3917	124.045216
3918	0.000000	3918	2432.634500
3919	0.000000	3919	2709.642500
3920	0.000000	3920	2491.538500
3921	0.000000	3921	2337.914500
3922	0.000000	3922	2323.315284
3923	0.000000	3923	2452.140500
3924	0.000000	3924	2351.967284
3925	0.000000	3925	2392.834500
3926	0.000000	3926	140.761216
3927	0.000000	3927	416.575216
3928	0.000000	3928	195.685216
3929	0.000000	3929	51.215216
3930	1.458550	3930	0.000000
3931	0.000000	3931	148.725216
3932	0.000000	3932	31.438000

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Coordenada x	Valor x	Coordenada z	Valor z
3933	0.000000	3933	96.583216
3934	0.000000	3934	2456.514500
3935	0.000000	3935	2708.050500
3936	0.000000	3936	2511.040500
3937	0.000000	3937	2387.664500
3938	0.000000	3938	2320.529284
3939	0.000000	3939	2459.304500
3940	0.000000	3940	2359.529284
3941	0.000000	3941	2450.544500
3942	0.000000	3942	146.731216
3943	0.000000	3943	437.669216
3944	0.000000	3944	202.451216
3945	0.000000	3945	91.413216
3946	-0.000000	3946	0.000000
3947	0.000000	3947	176.983216
3948	0.000000	3948	107.727216
3949	0.000000	3949	2633.624500
3950	0.000000	3950	2614.520500
3951	0.000000	3951	2603.774500
3952	0.000000	3952	2670.638500
3953	0.000000	3953	2599.396500
3954	0.000000	3954	2525.766500
3955	0.000000	3955	2605.366500
3956	0.000000	3956	2448.160500
3957	0.000000	3957	2491.271284
3958	0.000000	3958	2489.552500
3959	0.000000	3959	2590.369284
3960	0.000000	3960	2503.478500
3961	0.000000	3961	2727.552500
3962	0.000000	3962	2505.866500
3963	0.000000	3963	2656.708500
3964	0.000000	3964	2531.338500
3965	0.000000	3965	2422.688500
3966	0.000000	3966	2484.505284
3967	0.000000	3967	2455.324500
3968	0.000000	3968	2491.936500
3969	0.000000	3969	2595.018500
3970	0.000000	3970	2704.070500
3971	0.000000	3971	2731.930500
3972	0.000000	3972	2774.914500
3973	0.000000	3973	2627.260500
3974	0.000000	3974	2723.305284
3975	0.000000	3975	2686.164500
3976	0.000000	3976	2775.041284
3977	0.000000	3977	2671.036500
3978	0.000000	3978	2523.776500
3979	0.000000	3979	2619.694500
3980	0.000000	3980	2580.292500
3981	0.000000	3981	2400.400500

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Coordenada x	Valor x	Coordenada z	Valor z
3982	0.000000	3982	2482.913284
3983	0.000000	3983	2418.704500
3984	0.000000	3984	2653.524500
3985	0.000000	3985	2687.354500
3986	0.000000	3986	2708.448500
3987	0.000000	3987	2513.432500
3988	0.000000	3988	2609.875284
3989	0.000000	3989	2596.212500
3990	0.000000	3990	2618.500500
3991	0.000000	3991	2389.654500
3992	0.000000	3992	2642.380500
3993	0.000000	3993	156.808000
3994	0.000000	3994	454.114000
3995	0.000000	3995	240.786000
3996	-0.000000	3996	0.000000
3997	0.000000	3997	133.854784
3998	0.000000	3998	168.354000
3999	0.000000	3999	2471.638500
4000	0.000000	4000	2587.854500
4001	0.000000	4001	2541.686500
4002	0.000000	4002	2388.062500
4003	0.000000	4003	2455.053284
4004	0.000000	4004	2455.324500
4005	0.000000	4005	2445.768500
4006	0.000000	4006	977.728000
4007	0.000000	4007	268.608000
4008	0.000000	4008	411.540000
4009	0.082641	4009	0.000000
4010	0.000000	4010	294.092000
4011	0.000000	4011	370.544000
4012	0.000000	4012	56.980000
4013	0.000000	4013	45.900000
4014	0.000000	4014	300.740000
4015	0.609478	4015	0.000000
4016	0.000000	4016	14.876000
4017	0.000000	4017	230.936000
4018	0.000000	4018	309.604000
4019	0.000000	4019	1121.768000
4020	0.000000	4020	535.636000
4021	-0.000000	4021	0.000000
4022	0.000000	4022	202.128000
4023	0.000000	4023	442.564000
4024	0.000000	4024	192.156000
4025	0.000000	4025	1115.120000
4026	0.000000	4026	320.684000
4027	0.103301	4027	0.000000
4028	0.000000	4028	335.088000
4029	0.000000	4029	185.508000
4030	0.000000	4030	742.196000

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Coordenada x	Valor x	Coordenada z	Valor z
4031	0.000000	4031	1573.196000
4032	0.000000	4032	809.784000
4033	0.000000	4033	849.672000
4034	0.000000	4034	868.508000
4035	0.000000	4035	614.776000
4036	0.000000	4036	865.184000
4037	0.020660	4037	0.000000
4038	0.000000	4038	122.352000
4039	0.000000	4039	981.052000
4040	0.000000	4040	288.552000
4041	0.000000	4041	419.296000
4042	0.020660	4042	0.000000
4043	0.000000	4043	301.848000
4044	0.000000	4044	157.808000
4045	0.000000	4045	392.704000
4046	0.000000	4046	224.288000
4047	0.000000	4047	1126.200000
4048	0.000000	4048	359.464000
4049	0.000000	4049	515.692000
4050	0.030990	4050	0.000000
4051	0.000000	4051	399.352000
4052	0.000000	4052	480.236000
4053	0.030990	4053	0.000000
4054	0.000000	4054	199.912000
4055	0.000000	4055	659.732000
4056	0.000000	4056	244.232000
4057	0.000000	4057	414.864000
4058	0.092971	4058	0.000000
4059	0.000000	4059	239.800000
4060	0.000000	4060	386.056000
4061	0.000000	4061	6951.778648
4062	0.000000	4062	7941.222648
4063	0.000000	4063	7161.190648
4064	0.000000	4064	7079.198648
4065	0.000000	4065	6859.342648
4066	0.000000	4066	7115.762648
4067	0.000000	4067	7069.226648
4068	0.000000	4068	154.484000
4069	0.000000	4069	991.024000
4070	0.000000	4070	270.824000
4071	0.000000	4071	369.436000
4072	0.010330	4072	0.000000
4073	0.000000	4073	281.904000
4074	0.000000	4074	340.628000
4075	0.000000	4075	6991.666648
4076	0.000000	4076	7849.258648
4077	0.000000	4077	7103.574648
4078	0.000000	4078	7145.678648
4079	0.000000	4079	6871.530648

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Coordenada x	Valor x	Coordenada z	Valor z
4080	0.000000	4080	7106.898648
4081	0.000000	4081	7095.818648
4082	0.000000	4082	247.556000
4083	0.000000	4083	646.436000
4084	0.000000	4084	223.180000
4085	0.000000	4085	530.096000
4086	0.123962	4086	0.000000
4087	0.000000	4087	184.400000
4088	0.000000	4088	446.996000
4089	0.000000	4089	174.428000
4090	0.000000	4090	868.036000
4091	0.000000	4091	302.956000
4092	0.000000	4092	408.216000
4093	0.061981	4093	0.000000
4094	0.000000	4094	208.776000
4095	0.000000	4095	348.384000
4096	0.000000	4096	7001.638648
4097	0.000000	4097	7952.302648
4098	0.000000	4098	7189.998648
4099	0.000000	4099	6988.342648
4100	0.000000	4100	6811.698648
4101	0.000000	4101	6962.858648
4102	0.000000	4102	6986.126648
4103	0.000000	4103	7028.230648
4104	0.000000	4104	7792.750648
4105	0.000000	4105	7185.566648
4106	0.000000	4106	7095.818648
4107	0.000000	4107	6932.470648
4108	0.000000	4108	7288.610648
4109	0.000000	4109	7070.334648
4110	0.000000	4110	397.136000
4111	0.000000	4111	1441.980000
4112	0.000000	4112	525.664000
4113	0.000000	4113	389.380000
4114	0.092971	4114	0.000000
4115	0.000000	4115	568.876000
4116	0.000000	4116	353.924000
4117	0.000000	4117	257.528000
4118	0.000000	4118	1345.584000
4119	0.000000	4119	411.540000
4120	0.000000	4120	246.448000
4121	0.072311	4121	0.000000
4122	0.000000	4122	291.876000
4123	0.000000	4123	189.940000
4124	0.000000	4124	709.592000
4125	0.000000	4125	289.660000
4126	0.000000	4126	188.832000
4127	0.144622	4127	0.000000
4128	0.000000	4128	219.856000

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Coordenada x	Valor x	Coordenada z	Valor z
4129	0.000000	4129	429.268000
4130	0.000000	4130	1353.340000
4131	0.000000	4131	537.852000
4132	0.000000	4132	493.532000
4133	0.061981	4133	0.000000
4134	0.000000	4134	562.228000
4135	0.000000	4135	430.376000
4136	0.000000	4136	428.160000
4137	0.000000	4137	1326.748000
4138	0.000000	4138	538.960000
4139	0.000000	4139	444.780000
4140	0.051651	4140	0.000000
4141	0.000000	4141	444.780000
4142	0.000000	4142	154.484000
4143	0.000000	4143	757.236000
4144	0.000000	4144	343.952000
4145	0.000000	4145	202.128000
4146	0.123962	4146	0.000000
4147	0.000000	4147	236.476000
4148	0.000000	4148	185.508000
4149	0.000000	4149	7224.346648
4150	0.041321	4150	0.000000
4151	0.000000	4151	509.044000
4152	0.000000	4152	1428.684000
4153	0.000000	4153	619.844000
4154	0.000000	4154	657.516000
4155	0.258253	4155	0.000000
4156	0.000000	4156	593.252000
4157	0.000000	4157	160.024000
4158	0.000000	4158	643.112000
4159	0.000000	4159	123.460000
4160	0.000000	4160	948.920000
4161	0.000000	4161	195.480000
4162	0.000000	4162	187.724000
4163	0.020660	4163	0.000000
4164	0.000000	4164	229.828000
4165	0.000000	4165	157.808000
4166	0.000000	4166	374.976000
4167	0.000000	4167	900.168000
4168	0.000000	4168	490.208000
4169	0.000000	4169	286.336000
4170	0.092971	4170	0.000000
4171	0.000000	4171	403.784000
4172	0.000000	4172	135.648000
4173	0.000000	4173	960.000000
4174	0.000000	4174	186.616000
4175	0.000000	4175	383.840000
4176	0.030990	4176	0.000000
4177	0.000000	4177	201.020000

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Coordenada x	Valor x	Coordenada z	Valor z
4178	0.000000	4178	381.624000
4179	0.000000	4179	249.772000
4180	0.000000	4180	1006.536000
4181	0.000000	4181	439.240000
4182	0.000000	4182	183.292000
4183	0.196273	4183	0.000000
4184	0.000000	4184	239.800000
4185	0.000000	4185	199.912000
4186	0.000000	4186	655.300000
4187	0.000000	4187	307.388000
4188	0.000000	4188	237.584000
4189	0.206603	4189	0.000000
4190	0.000000	4190	197.696000
4191	0.000000	4191	291.876000
4192	0.000000	4192	1148.360000
4193	0.000000	4193	473.588000
4194	0.000000	4194	188.832000
4195	0.320234	4195	0.000000
4196	0.000000	4196	277.472000
4197	0.000000	4197	386.056000
4198	0.000000	4198	926.760000
4199	0.000000	4199	345.060000
4200	0.000000	4200	101.300000
4201	0.010330	4201	0.000000
4202	0.000000	4202	257.528000
4203	0.000000	4203	196.588000
4204	0.000000	4204	1024.264000
4205	0.000000	4205	138.972000
4206	0.000000	4206	470.264000
4207	0.030990	4207	0.000000
4208	0.000000	4208	155.592000
4209	0.000000	4209	446.996000
4210	0.000000	4210	253.096000
4211	0.000000	4211	1088.528000
4212	0.000000	4212	378.300000
4213	0.000000	4213	578.848000
4214	0.103301	4214	0.000000
4215	0.000000	4215	430.376000
4216	0.000000	4216	552.256000
4217	0.000000	4217	195.480000
4218	0.000000	4218	873.576000
4219	0.000000	4219	202.128000
4220	0.000000	4220	476.912000
4221	0.630138	4221	0.000000
4222	0.000000	4222	152.268000
4223	0.000000	4223	85.788000
4224	0.000000	4224	429.268000
4225	0.010330	4225	0.000000
4226	0.000000	4226	290.768000

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Coordenada x	Valor x	Coordenada z	Valor z
4227	0.000000	4227	1085.204000
4228	0.000000	4228	274.148000
4229	0.000000	4229	527.880000
4230	0.010330	4230	0.000000
4231	0.000000	4231	317.360000
4232	0.000000	4232	533.420000
4233	0.000000	4233	162.240000
4234	0.000000	4234	835.904000
4235	0.000000	4235	163.348000
4236	0.000000	4236	394.920000
4237	0.041321	4237	0.000000
4238	0.000000	4238	120.136000
4239	0.000000	4239	398.244000
4240	0.000000	4240	6934.050648
4241	0.000000	4241	243.124000
4242	0.000000	4242	1063.044000
4243	0.000000	4243	146.728000
4244	0.000000	4244	485.776000
4245	0.123962	4245	0.000000
4246	0.000000	4246	242.016000
4247	0.000000	4247	135.648000
4248	0.000000	4248	489.100000
4249	0.000000	4249	185.508000
4250	0.000000	4250	987.700000
4251	0.000000	4251	203.236000
4252	0.000000	4252	445.888000
4253	0.051651	4253	0.000000
4254	0.000000	4254	172.212000
4255	0.000000	4255	461.400000
4256	0.000000	4256	284.120000
4257	0.000000	4257	1135.064000
4258	0.000000	4258	324.008000
4259	0.000000	4259	507.936000
4260	0.206603	4260	0.000000
4261	0.000000	4261	369.436000
4262	0.000000	4262	113.488000
4263	0.000000	4263	553.364000
4264	0.000000	4264	147.836000
4265	0.000000	4265	737.292000
4266	0.000000	4266	173.320000
4267	0.000000	4267	462.508000
4268	0.144622	4268	0.000000
4269	0.000000	4269	225.396000
4270	0.000000	4270	494.640000
4271	0.000000	4271	216.532000
4272	0.000000	4272	1066.368000
4273	0.000000	4273	322.900000
4274	0.000000	4274	489.100000
4275	0.010330	4275	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
4276	0.000000	4276	319.576000
4277	0.000000	4277	486.884000
4278	0.000000	4278	184.400000
4279	0.000000	4279	1013.184000
4280	0.000000	4280	283.012000
4281	0.000000	4281	424.836000
4282	0.010330	4282	0.000000
4283	0.000000	4283	270.824000
4284	0.000000	4284	417.080000
4285	0.000000	4285	548.932000
4286	0.000000	4286	1335.612000
4287	0.000000	4287	604.332000
4288	0.000000	4288	697.404000
4289	0.113632	4289	0.000000
4290	0.000000	4290	623.168000
4291	0.000000	4291	134.540000
4292	0.000000	4292	758.344000
4293	0.000000	4293	359.464000
4294	0.000000	4294	1328.964000
4295	0.000000	4295	417.080000
4296	0.000000	4296	587.712000
4297	0.185942	4297	0.000000
4298	0.000000	4298	45.900000
4299	0.000000	4299	664.164000
4300	0.000000	4300	584.388000
4301	0.000000	4301	1384.364000
4302	0.000000	4302	646.436000
4303	0.000000	4303	681.892000
4304	0.258253	4304	0.000000
4305	0.000000	4305	127.892000
4306	0.000000	4306	812.636000
4307	0.000000	4307	150.052000
4308	0.000000	4308	916.788000
4309	0.000000	4309	168.888000
4310	0.000000	4310	473.588000
4311	0.041321	4311	0.000000
4312	0.000000	4312	428.160000
4313	0.000000	4313	546.716000
4314	0.000000	4314	1412.064000
4315	0.000000	4315	561.120000
4316	0.000000	4316	696.296000
4317	0.423536	4317	0.000000
4318	0.000000	4318	610.980000
4319	0.000000	4319	112.380000
4320	0.000000	4320	717.348000
4321	0.000000	4321	321.792000
4322	0.000000	4322	1168.304000
4323	0.000000	4323	409.324000
4324	0.000000	4324	587.712000

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Coordenada x	Valor x	Coordenada z	Valor z
4325	0.041321	4325	0.000000
4326	0.000000	4326	406.000000
4327	0.000000	4327	684.108000
4328	0.000000	4328	490.208000
4329	0.000000	4329	1271.348000
4330	0.000000	4330	545.608000
4331	0.000000	4331	598.792000
4332	0.165282	4332	0.000000
4333	0.000000	4333	567.768000
4334	0.000000	4334	102.408000
4335	0.000000	4335	629.816000
4336	0.000000	4336	634.248000
4337	0.000000	4337	1402.092000
4338	0.000000	4338	592.144000
4339	0.000000	4339	697.404000
4340	0.185942	4340	0.000000
4341	0.000000	4341	642.004000
4342	0.000000	4342	138.972000
4343	0.000000	4343	719.564000
4344	0.000000	4344	455.860000
4345	0.000000	4345	1301.264000
4346	0.000000	4346	540.068000
4347	0.000000	4347	516.800000
4348	0.020660	4348	0.000000
4349	0.000000	4349	584.388000
4350	0.000000	4350	132.324000
4351	0.000000	4351	544.500000
4352	0.000000	4352	655.300000
4353	0.000000	4353	1465.248000
4354	0.000000	4354	689.648000
4355	0.000000	4355	800.448000
4356	0.795421	4356	0.000000
4357	0.000000	4357	755.020000
4358	0.000000	4358	206.560000
4359	0.000000	4359	732.860000
4360	0.000000	4360	404.892000
4361	0.000000	4361	1286.860000
4362	0.000000	4362	492.424000
4363	0.000000	4363	537.852000
4364	0.578488	4364	0.000000
4365	0.000000	4365	569.984000
4366	0.000000	4366	94.652000
4367	0.000000	4367	581.064000
4368	0.000000	4368	492.424000
4369	0.000000	4369	1371.068000
4370	0.000000	4370	568.876000
4371	0.000000	4371	639.788000
4372	1.911080	4372	0.000000
4373	0.000000	4373	625.384000

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Coordenada x	Valor x	Coordenada z	Valor z
4374	0.000000	4374	102.408000
4375	0.000000	4375	656.408000
4376	0.000000	4376	479.128000
4377	0.000000	4377	1290.184000
4378	0.000000	4378	554.472000
4379	0.000000	4379	684.108000
4380	0.134292	4380	0.000000
4381	0.000000	4381	597.684000
4382	0.000000	4382	123.460000
4383	0.000000	4383	749.480000
4384	0.000000	4384	509.044000
4385	0.000000	4385	1429.792000
4386	0.000000	4386	587.712000
4387	0.000000	4387	751.696000
4388	-0.000000	4388	0.000000
4389	0.000000	4389	704.052000
4390	0.000000	4390	687.432000
4391	0.020660	4391	0.000000
4392	0.082641	4392	0.000000
4393	0.000000	4393	7649.818648
4394	0.092971	4394	0.000000
4395	0.082641	4395	0.000000
4396	0.000000	4396	196.588000
4397	0.000000	4397	341.736000
4398	0.000000	4398	377.192000
4399	0.258253	4399	0.000000
4400	0.000000	4400	206.560000
4401	0.000000	4401	290.768000
4402	0.000000	4402	421.512000
4403	0.041321	4403	0.000000
4404	0.000000	4404	160.024000
4405	0.000000	4405	690.756000
4406	0.000000	4406	154.484000
4407	0.000000	4407	325.116000
4408	0.061981	4408	0.000000
4409	0.000000	4409	130.108000
4410	0.000000	4410	408.216000
4411	0.030990	4411	0.000000
4412	0.000000	4412	7818.234648
4413	0.000000	4413	8006.594648
4414	0.000000	4414	7939.006648
4415	0.000000	4415	8001.056648
4416	0.000000	4416	7771.224648
4417	0.000000	4417	7879.174648
4418	0.000000	4418	7930.138648
4419	0.082641	4419	0.000000
4420	0.000000	4420	214.316000
4421	0.000000	4421	592.144000
4422	0.000000	4422	295.200000

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Coordenada x	Valor x	Coordenada z	Valor z
4423	0.000000	4423	267.500000
4424	0.082641	4424	0.000000
4425	0.000000	4425	208.776000
4426	0.000000	4426	222.072000
4427	0.000000	4427	427.052000
4428	0.000000	4428	298.524000
4429	0.000000	4429	228.720000
4430	0.227263	4430	0.000000
4431	0.000000	4431	349.492000
4432	0.010330	4432	0.000000
4433	0.000000	4433	7339.578648
4434	0.144622	4434	0.000000
4435	0.000000	4435	164.456000
4436	0.000000	4436	1102.932000
4437	0.000000	4437	321.792000
4438	0.000000	4438	124.568000
4439	-0.000000	4439	0.000000
4440	0.000000	4440	307.388000
4441	0.000000	4441	146.728000
4442	0.000000	4442	581.064000
4443	0.000000	4443	265.284000
4444	0.000000	4444	310.712000
4445	0.030990	4445	0.000000
4446	0.000000	4446	212.100000
4447	0.000000	4447	361.680000
4448	0.000000	4448	411.592000
4449	0.000000	4449	183.896000
4450	0.115560	4450	0.000000
4451	0.000000	4451	205.708000
4452	0.000000	4452	166.340000
4453	0.000000	4453	35.468000
4454	0.000000	4454	75.900000
4455	0.000000	4455	130.164000
4456	0.327421	4456	0.000000
4457	0.000000	4457	258.908000
4458	0.000000	4458	85.476000
4459	0.000000	4459	21.636000
4460	0.000000	4460	84.412000
4461	0.000000	4461	421.168000
4462	-0.000000	4462	0.000000
4463	0.000000	4463	146.124000
4464	0.000000	4464	62.600000
4465	0.000000	4465	10.464000
4466	0.000000	4466	280.544000
4467	0.000000	4467	670.500000
4468	0.000000	4468	401.840000
4469	0.000000	4469	398.648000
4470	0.000000	4470	378.964000
4471	0.000000	4471	139.564000

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Coordenada x	Valor x	Coordenada z	Valor z
4472	0.000000	4472	141.336000
4473	0.000000	4473	487.136000
4474	0.000000	4474	233.372000
4475	-0.000000	4475	0.000000
4476	0.000000	4476	231.776000
4477	0.000000	4477	243.480000
4478	0.000000	4478	62.600000
4479	0.019260	4479	0.000000
4480	0.000000	4480	50.364000
4481	0.000000	4481	409.464000
4482	0.000000	4482	189.748000
4483	0.211861	4483	0.000000
4484	0.000000	4484	201.984000
4485	0.000000	4485	166.340000
4486	0.000000	4486	230.712000
4487	0.000000	4487	42.384000
4488	0.000000	4488	53.024000
4489	0.000000	4489	432.872000
4490	0.000000	4490	177.512000
4491	0.173341	4491	0.000000
4492	0.000000	4492	155.700000
4493	0.000000	4493	166.872000
4494	0.000000	4494	38.128000
4495	0.019260	4495	0.000000
4496	0.000000	4496	89.732000
4497	0.000000	4497	257.312000
4498	0.000000	4498	170.596000
4499	0.173341	4499	0.000000
4500	0.000000	4500	204.112000
4501	0.000000	4501	138.676000
4502	0.000000	4502	41.320000
4503	0.000000	4503	131.760000
4504	0.000000	4504	553.636000
4505	0.000000	4505	291.892000
4506	0.115560	4506	0.000000
4507	0.000000	4507	297.744000
4508	0.000000	4508	240.288000
4509	0.000000	4509	50.364000
4510	0.000000	4510	89.732000
4511	0.000000	4511	438.192000
4512	0.000000	4512	205.176000
4513	0.057780	4513	0.000000
4514	0.000000	4514	225.924000
4515	0.000000	4515	180.704000
4516	0.000000	4516	41.320000
4517	0.000000	4517	118.992000
4518	0.000000	4518	477.560000
4519	0.000000	4519	232.308000
4520	0.019260	4520	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
4521	0.000000	4521	271.676000
4522	0.000000	4522	204.112000
4523	0.000000	4523	31.212000
4524	0.000000	4524	57.280000
4525	0.000000	4525	195.600000
4526	0.000000	4526	105.160000
4527	0.442982	4527	0.000000
4528	0.000000	4528	148.784000
4529	0.000000	4529	56.748000
4530	0.000000	4530	15.252000
4531	0.000000	4531	80.688000
4532	0.000000	4532	360.520000
4533	0.000000	4533	201.984000
4534	0.346681	4534	0.000000
4535	0.000000	4535	207.304000
4536	0.000000	4536	126.972000
4537	0.000000	4537	26.424000
4538	0.000000	4538	199.324000
4539	0.000000	4539	602.580000
4540	0.000000	4540	349.348000
4541	0.154081	4541	0.000000
4542	0.000000	4542	318.492000
4543	0.000000	4543	344.028000
4544	0.000000	4544	54.088000
4545	0.000000	4545	160.488000
4546	0.000000	4546	474.368000
4547	0.000000	4547	295.616000
4548	0.096300	4548	0.000000
4549	0.000000	4549	324.876000
4550	0.000000	4550	315.300000
4551	0.000000	4551	42.916000
4552	0.000000	4552	196.664000
4553	0.000000	4553	645.140000
4554	0.000000	4554	317.960000
4555	0.192601	4555	0.000000
4556	0.000000	4556	216.348000
4557	0.000000	4557	308.916000
4558	0.000000	4558	38.128000
4559	0.000000	4559	198.260000
4560	0.000000	4560	667.484000
4561	0.000000	4561	331.792000
4562	0.211861	4562	0.000000
4563	0.000000	4563	284.976000
4564	0.000000	4564	76.964000
4565	0.000000	4565	193.472000
4566	0.000000	4566	389.780000
4567	0.000000	4567	300.936000
4568	0.269641	4568	0.000000
4569	0.000000	4569	312.640000

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Coordenada x	Valor x	Coordenada z	Valor z
4570	0.000000	4570	70.048000
4571	0.000000	4571	162.084000
4572	0.000000	4572	552.572000
4573	0.000000	4573	273.804000
4574	0.057780	4574	0.000000
4575	0.000000	4575	166.340000
4576	0.000000	4576	255.716000
4577	0.000000	4577	24.828000
4578	0.000000	4578	184.960000
4579	0.000000	4579	563.212000
4580	0.000000	4580	297.744000
4581	0.134820	4581	0.000000
4582	0.000000	4582	189.748000
4583	0.000000	4583	55.152000
4584	0.000000	4584	170.064000
4585	0.000000	4585	406.272000
4586	0.000000	4586	320.620000
4587	0.057780	4587	0.000000
4588	0.000000	4588	306.256000
4589	0.000000	4589	239.224000
4590	0.000000	4590	47.172000
4591	0.000000	4591	3545.640000
4592	0.096300	4592	0.000000
4593	0.000000	4593	121.652000
4594	0.000000	4594	510.012000
4595	0.000000	4595	234.436000
4596	0.520022	4596	0.000000
4597	0.000000	4597	87.604000
4598	0.000000	4598	191.876000
4599	0.000000	4599	117.396000
4600	0.000000	4600	48.236000
4601	0.000000	4601	162.084000
4602	0.000000	4602	505.224000
4603	0.000000	4603	256.248000
4604	0.077040	4604	0.000000
4605	0.000000	4605	313.172000
4606	0.000000	4606	242.948000
4607	0.000000	4607	40.788000
4608	0.000000	4608	235.500000
4609	0.000000	4609	434.468000
4610	0.000000	4610	350.412000
4611	0.154081	4611	0.000000
4612	0.000000	4612	265.824000
4613	0.000000	4613	111.544000
4614	0.000000	4614	73.772000
4615	0.000000	4615	416.380000
4616	0.000000	4616	157.828000
4617	0.134820	4617	0.000000
4618	0.000000	4618	219.008000

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Coordenada x	Valor x	Coordenada z	Valor z
4619	0.000000	4619	134.952000
4620	0.000000	4620	54.088000
4621	0.000000	4621	224.860000
4622	0.000000	4622	535.016000
4623	0.000000	4623	375.416000
4624	0.173341	4624	0.000000
4625	0.000000	4625	315.300000
4626	0.000000	4626	82.284000
4627	0.000000	4627	174.852000
4628	0.000000	4628	340.304000
4629	0.000000	4629	286.040000
4630	0.115560	4630	0.000000
4631	0.000000	4631	289.232000
4632	0.000000	4632	36.000000
4633	0.000000	4633	242.416000
4634	0.000000	4634	600.452000
4635	0.000000	4635	389.248000
4636	0.096300	4636	0.000000
4637	0.000000	4637	312.640000
4638	0.000000	4638	97.712000
4639	0.000000	4639	329.664000
4640	0.000000	4640	536.080000
4641	0.000000	4641	369.564000
4642	0.077040	4642	0.000000
4643	0.000000	4643	354.668000
4644	0.000000	4644	130.164000
4645	0.000000	4645	61.536000
4646	0.000000	4646	405.740000
4647	0.000000	4647	93.456000
4648	0.308161	4648	0.000000
4649	0.000000	4649	177.512000
4650	0.000000	4650	71.644000
4651	0.000000	4651	43.980000
4652	0.000000	4652	36.532000
4653	0.000000	4653	384.460000
4654	0.000000	4654	156.232000
4655	0.635582	4655	0.000000
4656	0.000000	4656	125.376000
4657	0.000000	4657	151.444000
4658	0.000000	4658	42.384000
4659	0.000000	4659	57.812000
4660	0.000000	4660	330.196000
4661	0.000000	4661	120.588000
4662	0.808923	4662	0.000000
4663	0.000000	4663	174.320000
4664	0.000000	4664	66.856000
4665	0.000000	4665	168.468000
4666	0.000000	4666	32.276000
4667	0.038520	4667	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
4668	0.000000	4668	79.092000
4669	0.000000	4669	407.336000
4670	0.000000	4670	130.696000
4671	0.211861	4671	0.000000
4672	0.000000	4672	149.848000
4673	0.000000	4673	121.652000
4674	0.000000	4674	57.812000
4675	0.000000	4675	81.220000
4676	0.000000	4676	351.476000
4677	0.000000	4677	141.336000
4678	0.250381	4678	0.000000
4679	0.000000	4679	213.688000
4680	0.000000	4680	90.796000
4681	0.000000	4681	56.748000
4682	0.038520	4682	0.000000
4683	0.000000	4683	76.432000
4684	0.000000	4684	416.912000
4685	0.000000	4685	89.732000
4686	0.442982	4686	0.000000
4687	0.000000	4687	170.064000
4688	0.000000	4688	105.692000
4689	0.000000	4689	188.152000
4690	0.000000	4690	56.748000
4691	0.000000	4691	67.920000
4692	0.000000	4692	399.888000
4693	0.000000	4693	136.016000
4694	0.481502	4694	0.000000
4695	0.000000	4695	189.216000
4696	0.000000	4696	91.328000
4697	0.000000	4697	62.600000
4698	0.000000	4698	85.476000
4699	0.000000	4699	440.852000
4700	0.000000	4700	164.212000
4701	0.520022	4701	0.000000
4702	0.000000	4702	159.424000
4703	0.000000	4703	156.232000
4704	0.000000	4704	166.872000
4705	0.000000	4705	76.964000
4706	0.000000	4706	41.852000
4707	0.000000	4707	271.676000
4708	0.000000	4708	113.672000
4709	0.751143	4709	0.000000
4710	0.000000	4710	181.236000
4711	0.000000	4711	108.884000
4712	0.000000	4712	70.580000
4713	0.000000	4713	62.068000
4714	0.000000	4714	416.912000
4715	0.000000	4715	172.724000
4716	0.096300	4716	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
4717	0.000000	4717	168.468000
4718	0.000000	4718	141.336000
4719	0.000000	4719	54.088000
4720	0.000000	4720	77.496000
4721	0.000000	4721	422.232000
4722	0.000000	4722	184.428000
4723	0.096300	4723	0.000000
4724	0.000000	4724	199.324000
4725	0.000000	4725	148.784000
4726	0.000000	4726	51.428000
4727	0.000000	4727	121.652000
4728	0.000000	4728	446.172000
4729	0.000000	4729	207.836000
4730	0.269641	4730	0.000000
4731	0.000000	4731	68.452000
4732	0.000000	4732	187.088000
4733	0.000000	4733	86.008000
4734	0.000000	4734	84.412000
4735	0.000000	4735	83.348000
4736	0.000000	4736	495.648000
4737	0.000000	4737	170.596000
4738	0.308161	4738	0.000000
4739	0.000000	4739	121.120000
4740	0.000000	4740	96.116000
4741	0.000000	4741	91.860000
4742	0.000000	4742	146.124000
4743	0.000000	4743	477.028000
4744	0.000000	4744	235.500000
4745	0.654842	4745	0.000000
4746	0.000000	4746	75.900000
4747	0.000000	4747	90.264000
4748	0.000000	4748	117.928000
4749	0.000000	4749	37.596000
4750	0.000000	4750	352.540000
4751	0.000000	4751	106.224000
4752	0.096300	4752	0.000000
4753	0.000000	4753	175.916000
4754	0.000000	4754	33.340000
4755	0.000000	4755	121.120000
4756	0.000000	4756	483.412000
4757	0.000000	4757	187.620000
4758	1.945270	4758	0.000000
4759	0.000000	4759	68.984000
4760	0.000000	4760	181.768000
4761	0.000000	4761	75.900000
4762	0.000000	4762	65.260000
4763	0.000000	4763	65.260000
4764	0.000000	4764	418.508000
4765	0.000000	4765	166.872000

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Coordenada x	Valor x	Coordenada z	Valor z
4766	0.134820	4766	0.000000
4767	0.000000	4767	121.120000
4768	0.000000	4768	135.484000
4769	0.000000	4769	101.436000
4770	0.000000	4770	140.804000
4771	0.000000	4771	462.664000
4772	0.000000	4772	226.988000
4773	0.423721	4773	0.000000
4774	0.000000	4774	115.800000
4775	0.000000	4775	207.836000
4776	0.000000	4776	117.928000
4777	0.000000	4777	70.048000
4778	0.000000	4778	162.616000
4779	0.000000	4779	478.092000
4780	0.000000	4780	201.984000
4781	0.847443	4781	0.000000
4782	0.000000	4782	68.452000
4783	0.000000	4783	196.132000
4784	0.000000	4784	88.136000
4785	0.000000	4785	65.792000
4786	0.000000	4786	163.680000
4787	0.000000	4787	516.396000
4788	0.000000	4788	263.696000
4789	0.173341	4789	0.000000
4790	0.000000	4790	155.168000
4791	0.000000	4791	255.184000
4792	0.000000	4792	171.660000
4793	0.000000	4793	68.452000
4794	0.000000	4794	123.248000
4795	0.000000	4795	458.940000
4796	0.000000	4796	199.324000
4797	1.001520	4797	0.000000
4798	0.000000	4798	18.976000
4799	0.000000	4799	200.920000
4800	0.000000	4800	71.112000
4801	0.000000	4801	22.700000
4802	0.000000	4802	129.100000
4803	0.000000	4803	499.372000
4804	0.000000	4804	230.712000
4805	0.635582	4805	0.000000
4806	0.000000	4806	145.060000
4807	0.000000	4807	238.160000
4808	0.000000	4808	143.464000
4809	0.000000	4809	75.900000
4810	0.000000	4810	122.184000
4811	0.000000	4811	490.860000
4812	0.000000	4812	218.476000
4813	1.097820	4813	0.000000
4814	0.000000	4814	96.116000

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Coordenada x	Valor x	Coordenada z	Valor z
4815	0.000000	4815	215.816000
4816	0.000000	4816	98.244000
4817	0.000000	4817	63.132000
4818	0.000000	4818	94.520000
4819	0.000000	4819	430.744000
4820	0.000000	4820	190.280000
4821	0.250381	4821	0.000000
4822	0.000000	4822	74.836000
4823	0.000000	4823	181.236000
4824	0.000000	4824	87.072000
4825	0.000000	4825	86.540000
4826	0.000000	4826	76.432000
4827	0.000000	4827	465.324000
4828	0.000000	4828	173.788000
4829	-0.000000	4829	0.000000
4830	0.000000	4830	42.384000
4831	0.000000	4831	199.856000
4832	0.000000	4832	24.296000
4833	0.019260	4833	0.000000
4834	0.038520	4834	0.000000
4835	0.038520	4835	0.000000
4836	0.019260	4836	0.000000
4837	0.057780	4837	0.000000
4838	0.000000	4838	106.224000
4839	0.000000	4839	235.500000
4840	0.346681	4840	0.000000
4841	0.000000	4841	222.200000
4842	0.000000	4842	140.804000
4843	0.000000	4843	314.768000
4844	0.000000	4844	76.432000
4845	0.019260	4845	0.000000
4846	0.000000	4846	113.672000
4847	0.000000	4847	315.300000
4848	0.000000	4848	170.596000
4849	0.096300	4849	0.000000
4850	0.000000	4850	247.204000
4851	0.000000	4851	129.100000
4852	0.000000	4852	95.052000
4853	0.077040	4853	0.000000
4854	0.000000	4854	4023.732000
4855	0.000000	4855	4060.972000
4856	0.000000	4856	4141.304000
4857	0.000000	4857	3918.572000
4858	0.000000	4858	4211.528000
4859	0.000000	4859	4082.784000
4860	0.000000	4860	4240.788000
4861	0.038520	4861	0.000000
4862	0.000000	4862	167.404000
4863	0.000000	4863	295.616000

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Coordenada x	Valor x	Coordenada z	Valor z
4864	0.000000	4864	265.824000
4865	0.134820	4865	0.000000
4866	0.000000	4866	274.868000
4867	0.000000	4867	26.956000
4868	0.000000	4868	189.748000
4869	0.000000	4869	234.968000
4870	0.000000	4870	286.040000
4871	0.115560	4871	0.000000
4872	0.000000	4872	293.488000
4873	0.000000	4873	113.140000
4874	0.000000	4874	3909.352000
4875	0.000000	4875	3600.968000
4876	0.019260	4876	0.000000
4877	0.000000	4877	212.092000
4878	0.000000	4878	609.496000
4879	0.000000	4879	347.220000
4880	-0.000000	4880	0.000000
4881	0.000000	4881	343.496000
4882	0.000000	4882	310.512000
4883	0.000000	4883	114.204000
4884	0.000000	4884	269.548000
4885	0.000000	4885	230.712000
4886	0.057780	4886	0.000000
4887	0.000000	4887	254.120000
4888	0.000000	4888	175.384000
4889	0.000000	4889	79.624000
4890	0.000000	4890	411.592000
4891	0.000000	4891	183.896000
4892	0.329533	4892	0.000000
4893	0.000000	4893	205.708000
4894	0.000000	4894	166.340000
4895	0.000000	4895	35.468000
4896	0.000000	4896	75.900000
4897	0.000000	4897	130.164000
4898	0.348187	4898	0.000000
4899	0.000000	4899	258.908000
4900	0.000000	4900	85.476000
4901	0.000000	4901	21.636000
4902	0.000000	4902	84.412000
4903	0.000000	4903	421.168000
4904	-0.000000	4904	0.000000
4905	0.000000	4905	146.124000
4906	0.000000	4906	62.600000
4907	0.000000	4907	10.464000
4908	0.000000	4908	241.884000
4909	0.000000	4909	631.840000
4910	0.000000	4910	363.180000
4911	0.000000	4911	359.988000
4912	0.000000	4912	340.304000

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Coordenada x	Valor x	Coordenada z	Valor z
4913	0.000000	4913	100.904000
4914	0.000000	4914	141.336000
4915	0.000000	4915	487.136000
4916	0.000000	4916	233.372000
4917	-0.000000	4917	0.000000
4918	0.000000	4918	231.776000
4919	0.000000	4919	243.480000
4920	0.000000	4920	62.600000
4921	0.080829	4921	0.000000
4922	0.000000	4922	50.364000
4923	0.000000	4923	409.464000
4924	0.000000	4924	189.748000
4925	0.341969	4925	0.000000
4926	0.000000	4926	201.984000
4927	0.000000	4927	166.340000
4928	0.000000	4928	230.712000
4929	0.000000	4929	42.384000
4930	0.000000	4930	53.024000
4931	0.000000	4931	432.872000
4932	0.000000	4932	177.512000
4933	0.174093	4933	0.000000
4934	0.000000	4934	155.700000
4935	0.000000	4935	166.872000
4936	0.000000	4936	38.128000
4937	0.024871	4937	0.000000
4938	0.000000	4938	3680.720000
4939	0.000000	4939	3848.300000
4940	0.000000	4940	3761.584000
4941	0.000000	4941	3590.988000
4942	0.000000	4942	3795.100000
4943	0.000000	4943	3729.664000
4944	0.000000	4944	3632.308000
4945	0.000000	4945	131.760000
4946	0.000000	4946	553.636000
4947	0.000000	4947	291.892000
4948	0.049741	4948	0.000000
4949	0.000000	4949	297.744000
4950	0.000000	4950	240.288000
4951	0.000000	4951	50.364000
4952	0.000000	4952	89.732000
4953	0.000000	4953	438.192000
4954	0.000000	4954	205.176000
4955	0.136788	4955	0.000000
4956	0.000000	4956	225.924000
4957	0.000000	4957	180.704000
4958	0.000000	4958	41.320000
4959	0.000000	4959	118.992000
4960	0.000000	4960	477.560000
4961	0.000000	4961	232.308000

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Coordenada x	Valor x	Coordenada z	Valor z
4962	0.018653	4962	0.000000
4963	0.000000	4963	271.676000
4964	0.000000	4964	204.112000
4965	0.000000	4965	31.212000
4966	0.000000	4966	57.280000
4967	0.000000	4967	195.600000
4968	0.000000	4968	105.160000
4969	0.254922	4969	0.000000
4970	0.000000	4970	148.784000
4971	0.000000	4971	56.748000
4972	0.000000	4972	15.252000
4973	0.000000	4973	80.688000
4974	0.000000	4974	360.520000
4975	0.000000	4975	201.984000
4976	0.341969	4976	0.000000
4977	0.000000	4977	207.304000
4978	0.000000	4978	126.972000
4979	0.000000	4979	26.424000
4980	0.000000	4980	199.324000
4981	0.000000	4981	602.580000
4982	0.000000	4982	349.348000
4983	0.087047	4983	0.000000
4984	0.000000	4984	318.492000
4985	0.000000	4985	344.028000
4986	0.000000	4986	54.088000
4987	0.000000	4987	3642.416000
4988	0.000000	4988	3956.296000
4989	0.000000	4989	3777.544000
4990	0.000000	4990	3481.928000
4991	0.000000	4991	3806.804000
4992	0.000000	4992	3797.228000
4993	0.000000	4993	3524.844000
4994	0.000000	4994	196.664000
4995	0.000000	4995	645.140000
4996	0.000000	4996	317.960000
4997	0.037306	4997	0.000000
4998	0.000000	4998	216.348000
4999	0.000000	4999	308.916000
5000	0.000000	5000	38.128000
5001	0.000000	5001	3658.376000
5002	0.000000	5002	4127.600000
5003	0.000000	5003	3791.908000
5004	0.000000	5004	3460.116000
5005	0.000000	5005	3745.092000
5006	0.000000	5006	3537.080000
5007	0.000000	5007	193.472000
5008	0.000000	5008	389.780000
5009	0.000000	5009	300.936000
5010	0.124352	5010	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
5011	0.000000	5011	312.640000
5012	0.000000	5012	70.048000
5013	0.000000	5013	162.084000
5014	0.000000	5014	552.572000
5015	0.000000	5015	273.804000
5016	0.105699	5016	0.000000
5017	0.000000	5017	166.340000
5018	0.000000	5018	255.716000
5019	0.000000	5019	24.828000
5020	0.000000	5020	184.960000
5021	0.000000	5021	563.212000
5022	0.000000	5022	297.744000
5023	0.031088	5023	0.000000
5024	0.000000	5024	189.748000
5025	0.000000	5025	55.152000
5026	0.000000	5026	3755.200000
5027	0.000000	5027	3991.408000
5028	0.000000	5028	3905.756000
5029	0.000000	5029	3585.136000
5030	0.000000	5030	3891.392000
5031	0.000000	5031	3824.360000
5032	0.000000	5032	3632.308000
5033	0.012435	5033	0.000000
5034	0.024871	5034	0.000000
5035	0.000000	5035	121.652000
5036	0.000000	5036	510.012000
5037	0.000000	5037	234.436000
5038	0.087047	5038	0.000000
5039	0.000000	5039	87.604000
5040	0.000000	5040	191.876000
5041	0.000000	5041	117.396000
5042	0.000000	5042	48.236000
5043	0.000000	5043	162.084000
5044	0.000000	5044	505.224000
5045	0.000000	5045	256.248000
5046	0.074611	5046	0.000000
5047	0.000000	5047	313.172000
5048	0.000000	5048	242.948000
5049	0.000000	5049	40.788000
5050	0.000000	5050	235.500000
5051	0.000000	5051	434.468000
5052	0.000000	5052	350.412000
5053	0.037306	5053	0.000000
5054	0.000000	5054	265.824000
5055	0.000000	5055	111.544000
5056	0.000000	5056	73.772000
5057	0.000000	5057	416.380000
5058	0.000000	5058	157.828000
5059	0.087047	5059	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
5060	0.000000	5060	219.008000
5061	0.000000	5061	134.952000
5062	0.000000	5062	54.088000
5063	0.000000	5063	224.860000
5064	0.000000	5064	535.016000
5065	0.000000	5065	375.416000
5066	0.149223	5066	0.000000
5067	0.000000	5067	315.300000
5068	0.000000	5068	82.284000
5069	0.000000	5069	3811.592000
5070	0.000000	5070	3977.044000
5071	0.000000	5071	3922.780000
5072	0.000000	5072	3636.740000
5073	0.000000	5073	3925.972000
5074	0.000000	5074	3672.740000
5075	0.000000	5075	242.416000
5076	0.000000	5076	600.452000
5077	0.000000	5077	389.248000
5078	0.037306	5078	0.000000
5079	0.000000	5079	312.640000
5080	0.000000	5080	97.712000
5081	0.000000	5081	329.664000
5082	0.000000	5082	536.080000
5083	0.000000	5083	369.564000
5084	0.043523	5084	0.000000
5085	0.000000	5085	354.668000
5086	0.000000	5086	130.164000
5087	0.000000	5087	61.536000
5088	0.000000	5088	405.740000
5089	0.000000	5089	93.456000
5090	0.037306	5090	0.000000
5091	0.000000	5091	177.512000
5092	0.000000	5092	71.644000
5093	0.000000	5093	43.980000
5094	0.000000	5094	36.532000
5095	0.000000	5095	384.460000
5096	0.000000	5096	156.232000
5097	0.080829	5097	0.000000
5098	0.000000	5098	125.376000
5099	0.000000	5099	151.444000
5100	0.000000	5100	42.384000
5101	0.000000	5101	57.812000
5102	0.000000	5102	330.196000
5103	0.000000	5103	120.588000
5104	0.435233	5104	0.000000
5105	0.000000	5105	174.320000
5106	0.000000	5106	66.856000
5107	0.000000	5107	168.468000
5108	0.000000	5108	32.276000

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Coordenada x	Valor x	Coordenada z	Valor z
5109	0.118135	5109	0.000000
5110	0.000000	5110	79.092000
5111	0.000000	5111	407.336000
5112	0.000000	5112	130.696000
5113	0.062176	5113	0.000000
5114	0.000000	5114	149.848000
5115	0.000000	5115	121.652000
5116	0.000000	5116	57.812000
5117	0.000000	5117	81.220000
5118	0.000000	5118	351.476000
5119	0.000000	5119	141.336000
5120	0.149223	5120	0.000000
5121	0.000000	5121	213.688000
5122	0.000000	5122	90.796000
5123	0.000000	5123	56.748000
5124	0.105699	5124	0.000000
5125	0.000000	5125	76.432000
5126	0.000000	5126	416.912000
5127	0.000000	5127	89.732000
5128	0.062176	5128	0.000000
5129	0.000000	5129	170.064000
5130	0.000000	5130	105.692000
5131	0.000000	5131	188.152000
5132	0.000000	5132	56.748000
5133	0.000000	5133	67.920000
5134	0.000000	5134	399.888000
5135	0.000000	5135	136.016000
5136	0.143005	5136	0.000000
5137	0.000000	5137	189.216000
5138	0.000000	5138	91.328000
5139	0.000000	5139	62.600000
5140	0.000000	5140	3640.820000
5141	0.000000	5141	3996.196000
5142	0.000000	5142	3719.556000
5143	0.000000	5143	3555.344000
5144	0.000000	5144	3714.768000
5145	0.000000	5145	3711.576000
5146	0.000000	5146	3722.216000
5147	0.000000	5147	3632.308000
5148	0.000000	5148	3679.656000
5149	0.000000	5149	3909.480000
5150	0.000000	5150	3751.476000
5151	0.000000	5151	3637.804000
5152	0.000000	5152	3819.040000
5153	0.000000	5153	3746.688000
5154	0.000000	5154	3708.384000
5155	0.000000	5155	62.068000
5156	0.000000	5156	416.912000
5157	0.000000	5157	172.724000

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Coordenada x	Valor x	Coordenada z	Valor z
5158	0.043523	5158	0.000000
5159	0.000000	5159	168.468000
5160	0.000000	5160	141.336000
5161	0.000000	5161	54.088000
5162	0.000000	5162	77.496000
5163	0.000000	5163	422.232000
5164	0.000000	5164	184.428000
5165	0.043523	5165	0.000000
5166	0.000000	5166	199.324000
5167	0.000000	5167	148.784000
5168	0.000000	5168	51.428000
5169	0.000000	5169	121.652000
5170	0.000000	5170	446.172000
5171	0.000000	5171	207.836000
5172	0.031088	5172	0.000000
5173	0.000000	5173	68.452000
5174	0.000000	5174	187.088000
5175	0.000000	5175	86.008000
5176	0.000000	5176	84.412000
5177	0.000000	5177	83.348000
5178	0.000000	5178	495.648000
5179	0.000000	5179	170.596000
5180	0.099482	5180	0.000000
5181	0.000000	5181	121.120000
5182	0.000000	5182	96.116000
5183	0.000000	5183	91.860000
5184	0.000000	5184	3725.940000
5185	0.000000	5185	4056.844000
5186	0.000000	5186	3815.316000
5187	0.000000	5187	3579.816000
5188	0.000000	5188	3655.716000
5189	0.000000	5189	3670.080000
5190	0.000000	5190	3697.744000
5191	0.000000	5191	37.596000
5192	0.000000	5192	352.540000
5193	0.000000	5193	106.224000
5194	0.024871	5194	0.000000
5195	0.000000	5195	175.916000
5196	0.000000	5196	33.340000
5197	0.000000	5197	121.120000
5198	0.000000	5198	483.412000
5199	0.000000	5199	187.620000
5200	0.012435	5200	0.000000
5201	0.000000	5201	68.984000
5202	0.000000	5202	181.768000
5203	0.000000	5203	75.900000
5204	0.000000	5204	65.260000
5205	0.000000	5205	65.260000
5206	0.000000	5206	418.508000

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Coordenada x	Valor x	Coordenada z	Valor z
5207	0.000000	5207	166.872000
5208	0.031088	5208	0.000000
5209	0.000000	5209	121.120000
5210	0.000000	5210	135.484000
5211	0.000000	5211	101.436000
5212	0.000000	5212	140.804000
5213	0.000000	5213	462.664000
5214	0.000000	5214	226.988000
5215	0.068394	5215	0.000000
5216	0.000000	5216	115.800000
5217	0.000000	5217	207.836000
5218	0.000000	5218	117.928000
5219	0.000000	5219	70.048000
5220	0.000000	5220	3756.796000
5221	0.000000	5221	4072.272000
5222	0.000000	5222	3796.164000
5223	0.000000	5223	3594.180000
5224	0.000000	5224	3662.632000
5225	0.000000	5225	3790.312000
5226	0.000000	5226	3682.316000
5227	0.000000	5227	3659.972000
5228	0.000000	5228	163.680000
5229	0.000000	5229	516.396000
5230	0.000000	5230	263.696000
5231	0.043523	5231	0.000000
5232	0.000000	5232	155.168000
5233	0.000000	5233	255.184000
5234	0.000000	5234	171.660000
5235	0.000000	5235	68.452000
5236	0.000000	5236	123.248000
5237	0.000000	5237	458.940000
5238	0.000000	5238	199.324000
5239	0.715026	5239	0.000000
5240	0.000000	5240	18.976000
5241	0.000000	5241	200.920000
5242	0.000000	5242	71.112000
5243	0.000000	5243	22.700000
5244	0.000000	5244	129.100000
5245	0.000000	5245	499.372000
5246	0.000000	5246	230.712000
5247	0.074611	5247	0.000000
5248	0.000000	5248	145.060000
5249	0.000000	5249	238.160000
5250	0.000000	5250	143.464000
5251	0.000000	5251	75.900000
5252	0.000000	5252	122.184000
5253	0.000000	5253	490.860000
5254	0.000000	5254	218.476000
5255	0.074611	5255	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
5256	0.000000	5256	96.116000
5257	0.000000	5257	215.816000
5258	0.000000	5258	98.244000
5259	0.000000	5259	63.132000
5260	0.000000	5260	94.520000
5261	0.000000	5261	430.744000
5262	0.000000	5262	190.280000
5263	0.074611	5263	0.000000
5264	0.000000	5264	74.836000
5265	0.000000	5265	181.236000
5266	0.000000	5266	87.072000
5267	0.000000	5267	86.540000
5268	0.000000	5268	76.432000
5269	0.000000	5269	465.324000
5270	0.000000	5270	173.788000
5271	-0.000000	5271	0.000000
5272	0.000000	5272	42.384000
5273	0.000000	5273	199.856000
5274	0.000000	5274	24.296000
5275	0.000000	5275	3927.568000
5276	0.136788	5276	0.000000
5277	0.000000	5277	3887.668000
5278	0.000000	5278	3977.044000
5279	0.037306	5279	0.000000
5280	0.000000	5280	106.224000
5281	0.000000	5281	235.500000
5282	0.478756	5282	0.000000
5283	0.000000	5283	222.200000
5284	0.000000	5284	140.804000
5285	0.000000	5285	314.768000
5286	0.000000	5286	76.432000
5287	0.000000	5287	4053.120000
5288	0.000000	5288	113.672000
5289	0.000000	5289	315.300000
5290	0.000000	5290	170.596000
5291	0.031088	5291	0.000000
5292	0.000000	5292	247.204000
5293	0.000000	5293	129.100000
5294	0.000000	5294	95.052000
5295	0.049741	5295	0.000000
5296	0.000000	5296	4021.732000
5297	0.000000	5297	4058.972000
5298	0.000000	5298	4139.304000
5299	0.000000	5299	3916.572000
5300	0.000000	5300	4209.528000
5301	0.000000	5301	4080.784000
5302	0.000000	5302	4238.788000
5303	0.024871	5303	0.000000
5304	0.000000	5304	167.404000

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Coordenada x	Valor x	Coordenada z	Valor z
5305	0.000000	5305	295.616000
5306	0.000000	5306	265.824000
5307	0.031088	5307	0.000000
5308	0.000000	5308	274.868000
5309	0.000000	5309	26.956000
5310	0.000000	5310	189.748000
5311	0.000000	5311	234.968000
5312	0.000000	5312	286.040000
5313	0.024871	5313	0.000000
5314	0.000000	5314	293.488000
5315	0.000000	5315	113.140000
5316	0.000000	5316	3907.352000
5317	0.000000	5317	3598.968000
5318	0.099482	5318	0.000000
5319	0.000000	5319	212.092000
5320	0.000000	5320	609.496000
5321	0.000000	5321	347.220000
5322	-0.000000	5322	0.000000
5323	0.000000	5323	343.496000
5324	0.000000	5324	310.512000
5325	0.000000	5325	3711.044000
5326	0.000000	5326	3866.388000
5327	0.000000	5327	3827.552000
5328	0.000000	5328	3596.840000
5329	0.000000	5329	3850.960000
5330	0.000000	5330	3772.224000
5331	0.000000	5331	3676.464000
5332	-0.000000	5332	0.000000
5333	2.568468	5333	0.000000
5334	1.649166	5334	0.000000
5335	0.946586	5335	0.000000
5336	1.220513	5336	0.000000
5337	1.963334	5337	0.000000
5338	2.095802	5338	0.000000
5339	-0.000000	5339	0.000000
5340	-0.000000	5340	0.000000
5341	0.061981	5341	0.000000
5342	0.115560	5342	0.000000
5343	0.329533	5343	0.000000
5344	0.096034	5344	0.000000
5345	4.770012	5345	0.000000
5346	3.298332	5346	0.000000
5347	1.640748	5347	0.000000
5348	2.117949	5348	0.000000
5349	4.188446	5349	0.000000
5350	2.794400	5350	0.000000
5351	-0.000000	5351	0.000000
5352	-0.000000	5352	0.000000
5353	0.588818	5353	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
5354	0.327421	5354	0.000000
5355	0.348187	5355	0.000000
5356	-0.000000	5356	0.000000
5357	-0.000000	5357	0.000000
5358	-0.000000	5358	0.000000
5359	-0.000000	5359	0.000000
5360	-0.000000	5360	0.000000
5361	-0.000000	5361	0.000000
5362	-0.000000	5362	0.000000
5363	-0.000000	5363	0.000000
5364	-0.000000	5364	0.000000
5365	-0.000000	5365	0.000000
5366	-0.000000	5366	0.000000
5367	-0.000000	5367	0.000000
5368	-0.000000	5368	0.000000
5369	0.000000	5369	27.060000
5370	0.000000	5370	27.060000
5371	0.000000	5371	27.060000
5372	-0.000000	5372	0.000000
5373	0.000000	5373	27.060000
5374	0.000000	5374	27.060000
5375	0.000000	5375	27.060000
5376	0.000000	5376	27.060000
5377	-0.000000	5377	0.000000
5378	-0.000000	5378	0.000000
5379	0.000000	5379	38.660000
5380	-0.000000	5380	0.000000
5381	0.000000	5381	27.060000
5382	0.000000	5382	27.060000
5383	-0.000000	5383	0.000000
5384	-0.000000	5384	0.000000
5385	0.000000	5385	27.060000
5386	-0.000000	5386	0.000000
5387	-0.000000	5387	0.000000
5388	-0.000000	5388	0.000000
5389	-0.000000	5389	0.000000
5390	-0.000000	5390	0.000000
5391	-0.000000	5391	0.000000
5392	-0.000000	5392	0.000000
5393	0.733848	5393	0.000000
5394	0.706785	5394	0.000000
5395	0.315529	5395	0.000000
5396	0.502564	5396	0.000000
5397	0.523556	5397	0.000000
5398	0.558881	5398	0.000000
5399	-0.000000	5399	0.000000
5400	-0.000000	5400	0.000000
5401	0.041321	5401	0.000000
5402	0.096300	5402	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
5403	0.024871	5403	0.000000
5404	-0.000000	5404	0.000000
5405	-0.000000	5405	0.000000
5406	-0.000000	5406	0.000000
5407	-0.000000	5407	0.000000
5408	-0.000000	5408	0.000000
5409	-0.000000	5409	0.000000
5410	-0.000000	5410	0.000000
5411	-0.000000	5411	0.000000
5412	-0.000000	5412	0.000000
5413	-0.000000	5413	0.000000
5414	-0.000000	5414	0.000000
5415	-0.000000	5415	0.000000
5416	-0.000000	5416	0.000000
5417	-0.000000	5417	0.000000
5418	-0.000000	5418	0.000000
5419	-0.000000	5419	0.000000
5420	-0.000000	5420	0.000000
5421	-0.000000	5421	0.000000
5422	-0.000000	5422	0.000000
5423	-0.000000	5423	0.000000
5424	-0.000000	5424	0.000000
5425	-0.000000	5425	0.000000
5426	-0.000000	5426	0.000000
5427	-0.000000	5427	0.000000

### 3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema ship12l

Coordenada y	Valor y
1	-0.000000
2	-0.000000
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	-65200.000000
14	-42559.339835
15	-0.000000

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Coordenada y	Valor y
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	-27.060000
25	-27.060000
26	-27.060000
27	-27.060000
28	-27.060000
29	-27.060000
30	-27.060000
31	-27.060000
32	-27.060000
33	-27.060000
34	-27.060000
35	-0.000000
36	-0.000000
37	-27.060000
38	-27.060000
39	-27.060000
40	-27.060000
41	-27.060000
42	-27.060000
43	-0.000000
44	-0.000000
45	-27.060000
46	-27.060000
47	-27.060000
48	-27.060000
49	-27.060000
50	-27.060000
51	-0.000000
52	-27.060000
53	-27.060000
54	-27.060000
55	-27.060000
56	-27.060000
57	-27.060000
58	-27.060000
59	-27.060000
60	-27.060000
61	-27.060000
62	-27.060000
63	-27.060000
64	-27.060000
Continua na próxima página	

Coordenada y	Valor y
65	-27.060000
66	-27.060000
67	-0.000000
68	-0.000000
69	-27.060000
70	-27.060000
71	-27.060000
72	-27.060000
73	-27.060000
74	-27.060000
75	-0.000000
76	-27.060000
77	-27.060000
78	-27.060000
79	-27.060000
80	-27.060000
81	-27.060000
82	-27.060000
83	-0.000000
84	-27.060000
85	-27.060000
86	-27.060000
87	-27.060000
88	-27.060000
89	-27.060000
90	-27.060000
91	-0.000000
92	-27.060000
93	-27.060000
94	-27.060000
95	-27.060000
96	-90.220000
97	-90.220000
98	-90.220000
99	-90.220000
100	-90.220000
101	-90.220000
102	-90.220000
103	-90.220000
104	-38.660000
105	-38.660000
106	-38.660000
107	-38.660000
108	-38.660000
109	-38.660000
110	-38.660000
111	-38.660000
112	-38.660000
113	-38.660000

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Coordenada y	Valor y
114	-38.660000
115	-0.000000
116	-38.660000
117	-38.660000
118	-38.660000
119	-38.660000
120	2494.470500
121	2672.886500
122	2511.108500
123	2523.498500
124	2383.512500
125	-0.000000
126	2491.638500
127	2475.000500
128	-0.000000
129	-0.000000
130	-0.000000
131	-0.000000
132	-0.000000
133	-0.000000
134	-0.000000
135	-0.000000
136	-0.000000
137	-0.000000
138	-0.000000
139	-0.000000
140	-0.000000
141	-0.000000
142	-0.000000
143	-0.000000
144	-0.000000
145	-0.000000
146	-0.000000
147	2446.680500
148	-0.000000
149	-0.000000
150	2519.250500
151	-0.000000
152	-0.000000
153	-0.000000
154	-0.000000
155	2533.056500
156	2475.000500
157	2508.984500
158	-0.000000
159	-0.000000
160	2540.844500
161	-0.000000
162	2501.904500

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Coordenada y	Valor y
163	2520.312500
164	2493.408500
165	2562.792500
166	-0.000000
167	2498.010500
168	2464.380500
169	2493.762500
170	2454.114500
171	2515.002500
172	2475.708500
173	2485.974500
174	2465.088500
175	2458.716500
176	2470.044500
177	2418.006500
178	2466.858500
179	2458.362500
180	-0.000000
181	-0.000000
182	2464.380500
183	2431.104500
184	-0.000000
185	-0.000000
186	-0.000000
187	-0.000000
188	-0.000000
189	-0.000000
190	-0.000000
191	-0.000000
192	2610.228500
193	-0.000000
194	2822.628500
195	2841.900500
196	-0.000000
197	-0.000000
198	-0.000000
199	-0.000000
200	-0.000000
201	-0.000000
202	2533.410500
203	-0.000000
204	-0.000000
205	-0.000000
206	2391.027000
207	2534.043000
208	2447.313000
209	2317.395000
210	2389.572500
211	2488.533000

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Coordenada y	Valor y
212	2390.673000
213	2404.833000
214	2466.939000
215	2444.481000
216	2366.601000
217	2388.195000
218	-0.000000
219	2387.841000
220	2485.899000
221	2418.993000
222	2337.573000
223	2371.911000
224	2373.681000
225	2357.397000
226	2430.675000
227	2396.691000
228	2376.513000
229	-0.000000
230	2440.587000
231	2412.975000
232	2553.315000
233	2421.825000
234	2387.841000
235	2425.011000
236	2406.957000
237	2372.973000
238	2474.925000
239	2392.089000
240	2360.583000
241	2448.375000
242	2425.011000
243	2426.427000
244	2464.107000
245	2422.533000
246	2432.091000
247	2449.947000
248	2422.179000
249	2427.843000
250	2420.763000
251	2475.633000
252	2414.391000
253	2398.815000
254	2443.380500
255	2446.605000
256	2433.114500
257	2431.383000
258	2454.708500
259	2438.817000
260	2421.471000

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Coordenada y	Valor y
261	2437.716500
262	2400.231000
263	2397.006500
264	2403.771000
265	2427.843000
266	-0.000000
267	-0.000000
268	2443.380500
269	2410.104500
270	2669.781000
271	2652.789000
272	2643.231000
273	2702.703000
274	2639.337000
275	-0.000000
276	2501.829000
277	2753.325000
278	2479.173000
279	2635.443000
280	2661.129000
281	2703.057000
282	2459.349000
283	2559.885000
284	2656.329000
285	2449.791000
286	-0.000000
287	2677.569000
288	2338.281000
289	2448.375000
290	-0.000000
291	-0.000000
292	2401.027000
293	2544.043000
294	2444.108500
295	2327.395000
296	2343.572500
297	2498.533000
298	2400.673000
299	2408.000500
300	2476.939000
301	2454.481000
302	2376.601000
303	2398.195000
304	-0.000000
305	2397.841000
306	2484.464500
307	2428.993000
308	2347.573000
309	2381.911000

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Coordenada y	Valor y
310	2383.681000
311	2367.397000
312	2440.675000
313	2406.691000
314	2386.513000
315	-0.000000
316	2450.587000
317	2422.975000
318	2563.315000
319	2379.680500
320	2397.841000
321	2435.011000
322	2416.957000
323	2382.973000
324	2484.925000
325	2402.089000
326	2370.583000
327	2458.375000
328	2408.000500
329	2436.427000
330	2474.107000
331	2421.806500
332	2442.091000
333	2459.947000
334	2432.179000
335	2437.843000
336	2426.408500
337	2485.633000
338	2424.391000
339	2408.815000
340	2397.380500
341	2426.762500
342	2387.114500
343	2441.383000
344	2408.708500
345	2418.974500
346	2398.088500
347	2391.716500
348	2403.044500
349	2351.006500
350	2399.858500
351	2391.362500
352	-0.000000
353	-0.000000
354	2397.380500
355	2364.104500
356	2679.781000
357	2662.789000
358	2653.231000

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Coordenada y	Valor y
359	2712.703000
360	2649.337000
361	-0.000000
362	2511.829000
363	2763.325000
364	2489.173000
365	2645.443000
366	2671.129000
367	2713.057000
368	2469.349000
369	2569.885000
370	2666.329000
371	2459.791000
372	-0.000000
373	2687.569000
374	2348.281000
375	2458.375000
376	-0.000000
377	-0.000000
378	2413.027000
379	2556.043000
380	2469.313000
381	2339.395000
382	2365.512500
383	2510.533000
384	2412.673000
385	2426.833000
386	2488.939000
387	2466.481000
388	2388.601000
389	2410.195000
390	-0.000000
391	-0.000000
392	2507.899000
393	2440.993000
394	-0.000000
395	-0.000000
396	-0.000000
397	-0.000000
398	2452.675000
399	2418.691000
400	2398.513000
401	-0.000000
402	2462.587000
403	-0.000000
404	2575.315000
405	2428.680500
406	2409.841000
407	2447.011000

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Coordenada y	Valor y
408	2428.957000
409	2394.973000
410	2496.925000
411	2414.089000
412	-0.000000
413	2470.375000
414	2447.011000
415	2448.427000
416	2486.107000
417	2444.533000
418	2454.091000
419	2471.947000
420	2444.179000
421	2449.843000
422	2442.763000
423	2497.633000
424	2436.391000
425	2420.815000
426	2446.380500
427	2468.605000
428	2436.114500
429	2453.383000
430	2457.708500
431	2460.817000
432	2443.471000
433	2440.716500
434	2422.231000
435	2400.006500
436	2425.771000
437	2440.362500
438	-0.000000
439	-0.000000
440	2446.380500
441	2413.104500
442	2691.781000
443	2674.789000
444	2665.231000
445	2724.703000
446	2661.337000
447	-0.000000
448	2523.829000
449	2775.325000
450	2501.173000
451	2657.443000
452	2683.129000
453	2725.057000
454	2481.349000
455	2581.885000
456	2678.329000

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Coordenada y	Valor y
457	-0.000000
458	-0.000000
459	2699.569000
460	2360.281000
461	2470.375000
462	-0.000000
463	-0.000000
464	2408.470500
465	2586.886500
466	2425.108500
467	2437.498500
468	2297.512500
469	2505.976500
470	2405.638500
471	2389.000500
472	2484.382500
473	2460.862500
474	2445.286500
475	2419.090500
476	-0.000000
477	-0.000000
478	2465.464500
479	2437.498500
480	-0.000000
481	-0.000000
482	-0.000000
483	-0.000000
484	2519.272500
485	-0.000000
486	2383.336500
487	-0.000000
488	2524.936500
489	-0.000000
490	2550.934500
491	2360.680500
492	2476.792500
493	-0.000000
494	2433.250500
495	-0.000000
496	2547.946500
497	2480.686500
498	-0.000000
499	2447.056500
500	2389.000500
501	2422.984500
502	2481.550500
503	-0.000000
504	2454.844500
505	2467.390500

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Coordenada y	Valor y
506	2415.904500
507	2434.312500
508	2407.408500
509	2476.792500
510	2407.054500
511	2412.010500
512	2378.380500
513	2407.762500
514	2368.114500
515	2429.002500
516	2389.708500
517	2399.974500
518	2379.088500
519	2372.716500
520	2384.044500
521	2332.006500
522	2380.858500
523	2372.362500
524	-0.000000
525	-0.000000
526	2378.380500
527	2345.104500
528	2722.624500
529	2705.632500
530	2696.074500
531	2755.546500
532	2692.180500
533	-0.000000
534	2530.246500
535	2806.168500
536	2524.228500
537	2688.286500
538	2736.628500
539	2755.900500
540	2522.812500
541	2635.738500
542	2709.172500
543	-0.000000
544	-0.000000
545	2730.412500
546	2447.410500
547	2498.032500
548	-0.000000
549	-0.000000
550	2390.027000
551	2533.043000
552	2446.313000
553	2316.395000
554	2384.572500

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Coordenada y	Valor y
555	2487.533000
556	2389.673000
557	2403.833000
558	2465.939000
559	2443.481000
560	2365.601000
561	2387.195000
562	-0.000000
563	2386.841000
564	2484.899000
565	2417.993000
566	2336.573000
567	2370.911000
568	2372.681000
569	2356.397000
570	2429.675000
571	2395.691000
572	2375.513000
573	-0.000000
574	2439.587000
575	2411.975000
576	2552.315000
577	2420.680500
578	2386.841000
579	2424.011000
580	2405.957000
581	2371.973000
582	2473.925000
583	2391.089000
584	2359.583000
585	2447.375000
586	2424.011000
587	2425.427000
588	2463.107000
589	2421.533000
590	2431.091000
591	2448.947000
592	2421.179000
593	2426.843000
594	2419.763000
595	2474.633000
596	2413.391000
597	2397.815000
598	2438.380500
599	2445.605000
600	2428.114500
601	2430.383000
602	2449.708500
603	2437.817000

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Coordenada y	Valor y
604	2420.471000
605	2432.716500
606	2399.231000
607	2392.006500
608	2402.771000
609	2426.843000
610	-0.000000
611	-0.000000
612	2438.380500
613	2405.104500
614	2668.781000
615	2651.789000
616	2642.231000
617	2701.703000
618	2638.337000
619	-0.000000
620	2500.829000
621	2752.325000
622	2478.173000
623	2634.443000
624	2660.129000
625	2702.057000
626	2458.349000
627	2558.885000
628	2655.329000
629	2448.791000
630	-0.000000
631	2676.569000
632	2337.281000
633	2447.375000
634	-0.000000
635	-0.000000
636	2483.652500
637	2629.092500
638	2540.892500
639	2408.772500
640	2428.512500
641	2582.352500
642	2483.292500
643	2497.692500
644	2560.392500
645	2538.012500
646	2458.812500
647	2480.772500
648	-0.000000
649	2480.412500
650	2580.132500
651	2512.092500
652	2429.292500

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Coordenada y	Valor y
653	2464.212500
654	2466.012500
655	2449.452500
656	2523.972500
657	2489.412500
658	2468.892500
659	-0.000000
660	2534.052500
661	2505.972500
662	2648.232500
663	2492.292500
664	2480.412500
665	2518.212500
666	2499.852500
667	2465.292500
668	2568.972500
669	2484.732500
670	2452.692500
671	2541.972500
672	2518.212500
673	2519.652500
674	2557.512500
675	2515.692500
676	2525.412500
677	2543.112500
678	2515.332500
679	2521.092500
680	2513.892500
681	2569.692500
682	2507.412500
683	2491.572500
684	2510.292500
685	2540.172500
686	2499.852500
687	2524.692500
688	2521.812500
689	2532.252500
690	2511.012500
691	2504.532500
692	2493.012500
693	2463.132500
694	2496.612500
695	2504.172500
696	-0.000000
697	-0.000000
698	2510.292500
699	2476.452500
700	2766.672500
701	2749.392500

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Coordenada y	Valor y
702	2739.672500
703	2800.152500
704	2735.712500
705	-0.000000
706	2596.332500
707	2851.632500
708	2573.292500
709	2731.752500
710	2758.332500
711	2800.512500
712	2553.132500
713	2655.372500
714	2752.992500
715	2543.412500
716	-0.000000
717	2774.592500
718	2430.012500
719	2541.972500
720	-0.000000
721	-0.000000
722	2147.132000
723	2290.148000
724	2203.418000
725	2073.500000
726	2078.935874
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	-0.000000
745	-0.000000
746	-0.000000
747	-0.000000
748	-0.000000
749	2142.103874
750	-0.000000

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Coordenada y	Valor y
751	2181.116000
752	-0.000000
753	-0.000000
754	-0.000000
755	-0.000000
756	-0.000000
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	2176.868000
767	-0.000000
768	-0.000000
769	-0.000000
770	2159.803874
771	-0.000000
772	-0.000000
773	2187.488000
774	2171.131874
775	-0.000000
776	2160.511874
777	2154.139874
778	-0.000000
779	2113.429874
780	2159.876000
781	2153.785874
782	-0.000000
783	-0.000000
784	-0.000000
785	2126.527874
786	-0.000000
787	-0.000000
788	-0.000000
789	-0.000000
790	-0.000000
791	-0.000000
792	-0.000000
793	-0.000000
794	-0.000000
795	-0.000000
796	-0.000000
797	-0.000000
798	-0.000000
799	-0.000000

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Coordenada y	Valor y
800	-0.000000
801	-0.000000
802	-0.000000
803	-0.000000
804	2094.386000
805	-0.000000
806	-0.000000
807	-0.000000
808	2323.586500
809	2484.378500
810	2369.754500
811	2240.802500
812	2232.973284
813	-0.000000
814	-0.000000
815	-0.000000
816	-0.000000
817	-0.000000
818	-0.000000
819	-0.000000
820	-0.000000
821	-0.000000
822	-0.000000
823	-0.000000
824	-0.000000
825	-0.000000
826	-0.000000
827	-0.000000
828	-0.000000
829	-0.000000
830	-0.000000
831	-0.000000
832	-0.000000
833	-0.000000
834	-0.000000
835	2300.629284
836	-0.000000
837	2361.794500
838	-0.000000
839	-0.000000
840	-0.000000
841	-0.000000
842	-0.000000
843	-0.000000
844	-0.000000
845	-0.000000
846	-0.000000
847	-0.000000
848	-0.000000

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Coordenada y	Valor y
849	-0.000000
850	-0.000000
851	-0.000000
852	-0.000000
853	-0.000000
854	-0.000000
855	-0.000000
856	2320.529284
857	-0.000000
858	-0.000000
859	2306.874500
860	2333.265284
861	-0.000000
862	2321.325284
863	2314.161284
864	2326.897284
865	2268.391284
866	-0.000000
867	2313.763284
868	-0.000000
869	-0.000000
870	-0.000000
871	2283.117284
872	-0.000000
873	-0.000000
874	-0.000000
875	-0.000000
876	-0.000000
877	-0.000000
878	-0.000000
879	-0.000000
880	-0.000000
881	-0.000000
882	-0.000000
883	-0.000000
884	-0.000000
885	-0.000000
886	-0.000000
887	-0.000000
888	-0.000000
889	-0.000000
890	2264.284500
891	-0.000000
892	-0.000000
893	-0.000000
894	6744.110648
895	7302.542648
896	6796.186648
897	6834.966648

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Coordenada y	Valor y
898	6391.294648
899	7054.822648
900	6735.246648
901	6683.170648
902	6987.234648
903	6908.094648
904	-0.000000
905	6777.350648
906	-0.000000
907	-0.000000
908	6922.498648
909	6834.966648
910	-0.000000
911	-0.000000
912	6711.978648
913	6803.942648
914	7090.914648
915	6679.846648
916	6665.442648
917	-0.000000
918	7108.642648
919	-0.000000
920	7195.538648
921	6594.530648
922	6957.954648
923	6975.682648
924	6821.670648
925	6915.850648
926	7180.662648
927	6970.142648
928	6959.062648
929	6864.882648
930	6683.170648
931	6789.538648
932	6978.370648
933	6726.382648
934	6889.258648
935	-0.000000
936	6767.378648
937	6824.994648
938	6740.786648
939	6957.954648
940	6739.678648
941	6755.190648
942	6649.930648
943	6741.894648
944	6617.798648
945	6808.374648
946	6685.386648

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Coordenada y	Valor y
947	6717.518648
948	6652.146648
949	6632.202648
950	6667.658648
951	6504.782648
952	6657.686648
953	6631.094648
954	-0.000000
955	-0.000000
956	6649.930648
957	6545.778648
958	7732.918648
959	7679.734648
960	-0.000000
961	7835.962648
962	7637.630648
963	-0.000000
964	7125.262648
965	7994.406648
966	7106.426648
967	7625.442648
968	-0.000000
969	7837.070648
970	7101.994648
971	7455.446648
972	7690.814648
973	-0.000000
974	-0.000000
975	7757.294648
976	6865.990648
977	7024.434648
978	-0.000000
979	-0.000000
980	3512.656000
981	3727.584000
982	3597.244000
983	3363.340000
984	3553.620000
985	3657.184000
986	3512.124000
987	3533.404000
988	3624.732000
989	3592.988000
990	3475.948000
991	3508.400000
992	-0.000000
993	3507.868000
994	3655.232000
995	3554.684000

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Coordenada y	Valor y
996	3432.324000
997	3483.928000
998	3486.588000
999	3462.116000
1000	3572.240000
1001	3521.168000
1002	3490.844000
1003	-0.000000
1004	3587.136000
1005	-0.000000
1006	3754.540000
1007	3558.940000
1008	3507.868000
1009	3563.728000
1010	3536.596000
1011	3485.524000
1012	3638.740000
1013	3514.252000
1014	3466.904000
1015	3598.840000
1016	3563.728000
1017	3565.856000
1018	3620.476000
1019	3560.004000
1020	3574.368000
1021	3599.196000
1022	3559.472000
1023	3567.984000
1024	3557.344000
1025	3639.804000
1026	3547.768000
1027	3524.360000
1028	3604.692000
1029	3596.180000
1030	3581.816000
1031	3573.304000
1032	3621.184000
1033	3584.476000
1034	3558.408000
1035	3596.180000
1036	3526.488000
1037	3584.476000
1038	3531.808000
1039	3567.984000
1040	-0.000000
1041	-0.000000
1042	3598.308000
1043	3580.752000
1044	3929.568000

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Coordenada y	Valor y
1045	3904.032000
1046	3889.668000
1047	3979.044000
1048	3883.816000
1049	-0.000000
1050	3679.172000
1051	4055.120000
1052	3645.124000
1053	3877.964000
1054	-0.000000
1055	3979.576000
1056	3615.332000
1057	3766.420000
1058	-0.000000
1059	-0.000000
1060	-0.000000
1061	3941.272000
1062	3433.388000
1063	3598.840000
1064	-0.000000
1065	-0.000000
1066	3510.656000
1067	3725.584000
1068	3595.244000
1069	3400.000000
1070	3551.620000
1071	3655.184000
1072	3510.124000
1073	3531.404000
1074	3622.732000
1075	-0.000000
1076	3473.948000
1077	3506.400000
1078	-0.000000
1079	3505.868000
1080	3653.232000
1081	3552.684000
1082	3430.324000
1083	-0.000000
1084	3484.588000
1085	-0.000000
1086	3570.240000
1087	3519.168000
1088	3488.844000
1089	-0.000000
1090	-0.000000
1091	3543.640000
1092	3752.540000
1093	3556.940000

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Coordenada y	Valor y
1094	3505.868000
1095	3561.728000
1096	3534.596000
1097	3483.524000
1098	-0.000000
1099	3512.252000
1100	3464.904000
1101	3596.840000
1102	3561.728000
1103	3563.856000
1104	3618.476000
1105	3558.004000
1106	3572.368000
1107	3597.196000
1108	3557.472000
1109	3565.984000
1110	-0.000000
1111	-0.000000
1112	3545.768000
1113	3522.360000
1114	3602.692000
1115	3594.180000
1116	-0.000000
1117	3571.304000
1118	3619.184000
1119	3582.476000
1120	3556.408000
1121	-0.000000
1122	3524.488000
1123	3582.476000
1124	3529.808000
1125	3565.984000
1126	-0.000000
1127	-0.000000
1128	3596.308000
1129	3578.752000
1130	-0.000000
1131	3902.032000
1132	-0.000000
1133	-0.000000
1134	3881.816000
1135	-0.000000
1136	3677.172000
1137	-0.000000
1138	3643.124000
1139	3875.964000
1140	-0.000000
1141	3977.576000
1142	3613.332000

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Coordenada y	Valor y
1143	3764.420000
1144	-0.000000
1145	-0.000000
1146	-0.000000
1147	3939.272000
1148	3431.388000
1149	-0.000000
1150	-0.000000
1151	-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 ship12l.
- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.