

Solução do Problema ship12s - Solver HiGHS

Análise Computacional

17 de setembro de 2025

1 Informações do Problema

Informações do Problema:

- Nome: ship12s
- Número de Variáveis: 2763
- Número de Restrições: 1151
- Inviabilidade Primal: 0.000e+00
- Inviabilidade Dual: 0.000e+00
- Valor Primal: 1.489e+06
- Valor Dual: 1.489e+06
- Gap: 9.973e-22
- Número de Iterações: 16

2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema ship12s

| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|------------|--------------|----------|
| 1 | 134.294108 | 1 | 0.000000 |
| 2 | 67.969197 | 2 | 0.000000 |
| 3 | 41.081827 | 3 | 0.000000 |
| 4 | 95.548919 | 4 | 0.000000 |
| 5 | 92.534166 | 5 | 0.000000 |
| 6 | 0.844995 | 6 | 0.000000 |
| 7 | 0.460594 | 7 | 0.000000 |
| 8 | 1.272464 | 8 | 0.000000 |
| 9 | 6.000000 | 9 | 0.000000 |
| 10 | 22.399985 | 10 | 0.000000 |
| 11 | 32.105882 | 11 | 0.000000 |
| 12 | 37.930815 | 12 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 13 | 16.218168 | 13 | 0.000000 |
| 14 | 32.199999 | 14 | 0.000000 |
| 15 | 22.251117 | 15 | 0.000000 |
| 16 | 37.265766 | 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 | 16.427535 | 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 | 2.232798 | 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 | 0.168060 | 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 | 2589.096500 |
| 60 | 0.672240 | 60 | 0.000000 |
| 61 | 0.072026 | 61 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 62 | 0.000000 | 62 | 2567.502500 |
| 63 | 0.000000 | 63 | 2618.832500 |
| 64 | 0.000000 | 64 | 2556.174500 |
| 65 | 0.000000 | 65 | 2549.802500 |
| 66 | -0.000000 | 66 | 0.000000 |
| 67 | 0.000000 | 67 | 36.816000 |
| 68 | 0.000000 | 68 | 2625.912500 |
| 69 | 0.000000 | 69 | 2753.352500 |
| 70 | 0.000000 | 70 | 2618.124500 |
| 71 | 0.000000 | 71 | 2716.182500 |
| 72 | 0.000000 | 72 | 2548.584500 |
| 73 | 0.000000 | 73 | 2605.734500 |
| 74 | 0.000000 | 74 | 2689.632500 |
| 75 | 0.000000 | 75 | 2574.582500 |
| 76 | 0.000000 | 76 | 2796.186500 |
| 77 | 0.000000 | 77 | 2615.646500 |
| 78 | 0.000000 | 78 | 2649.276500 |
| 79 | 0.000000 | 79 | 2520.618500 |
| 80 | 0.000000 | 80 | 2585.556500 |
| 81 | 0.000000 | 81 | 2630.160500 |
| 82 | 0.000000 | 82 | 4.956000 |
| 83 | -0.000000 | 83 | 0.000000 |
| 84 | 0.000000 | 84 | 2602.194500 |
| 85 | 0.000000 | 85 | 2603.964500 |
| 86 | 0.000000 | 86 | 2587.680500 |
| 87 | 0.000000 | 87 | 2661.312500 |
| 88 | 0.000000 | 88 | 2827.338500 |
| 89 | 0.000000 | 89 | 2693.172500 |
| 90 | 0.000000 | 90 | 2660.958500 |
| 91 | 0.000000 | 91 | 2602.392500 |
| 92 | 0.000000 | 92 | 2670.870500 |
| 93 | 0.000000 | 93 | 2626.974500 |
| 94 | 0.000000 | 94 | 2606.796500 |
| 95 | 0.000000 | 95 | 2848.224500 |
| 96 | 0.000000 | 96 | 2643.258500 |
| 97 | 0.000000 | 97 | 2634.054500 |
| 98 | 0.000000 | 98 | 160.872000 |
| 99 | 0.000000 | 99 | 454.692000 |
| 100 | 0.000000 | 100 | 196.272000 |
| 101 | 0.000000 | 101 | 208.308000 |
| 102 | 0.576206 | 102 | 0.000000 |
| 103 | 0.000000 | 103 | 187.776000 |
| 104 | 0.000000 | 104 | 49.362000 |
| 105 | 0.000000 | 105 | 203.706000 |
| 106 | 0.000000 | 106 | 2618.124500 |
| 107 | 0.000000 | 107 | 2655.294500 |
| 108 | 0.216077 | 108 | 0.000000 |
| 109 | 0.000000 | 109 | 2603.256500 |
| 110 | 0.000000 | 110 | 2838.666500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 111 | 0.000000 | 111 | 2622.372500 |
| 112 | 0.000000 | 112 | 2590.866500 |
| 113 | 0.336120 | 113 | 0.000000 |
| 114 | 0.000000 | 114 | 79.098000 |
| 115 | 0.000000 | 115 | 346.014000 |
| 116 | 0.000000 | 116 | 119.100000 |
| 117 | 0.000000 | 117 | 183.174000 |
| 118 | 1.104390 | 118 | 0.000000 |
| 119 | 0.000000 | 119 | 135.738000 |
| 120 | 0.000000 | 120 | 174.678000 |
| 121 | 0.000000 | 121 | 60.690000 |
| 122 | 0.000000 | 122 | 277.338000 |
| 123 | 0.000000 | 123 | 62.814000 |
| 124 | 0.000000 | 124 | 150.606000 |
| 125 | 1.656590 | 125 | 0.000000 |
| 126 | 0.000000 | 126 | 46.884000 |
| 127 | 0.000000 | 127 | 25.644000 |
| 128 | 0.000000 | 128 | 135.384000 |
| 129 | 0.000000 | 129 | 2564.670500 |
| 130 | -0.000000 | 130 | 0.000000 |
| 131 | 0.000000 | 131 | 8.496000 |
| 132 | 0.168060 | 132 | 0.000000 |
| 133 | 0.000000 | 133 | 2550.510500 |
| 134 | 0.000000 | 134 | 0.354000 |
| 135 | 0.264094 | 135 | 0.000000 |
| 136 | 0.576206 | 136 | 0.000000 |
| 137 | 0.000000 | 137 | 89.010000 |
| 138 | 0.000000 | 138 | 360.882000 |
| 139 | 0.000000 | 139 | 101.754000 |
| 140 | 0.000000 | 140 | 160.518000 |
| 141 | 0.672240 | 141 | 0.000000 |
| 142 | 0.000000 | 142 | 116.268000 |
| 143 | 0.000000 | 143 | 34.494000 |
| 144 | 0.000000 | 144 | 175.032000 |
| 145 | 0.000000 | 145 | 45.468000 |
| 146 | 0.000000 | 146 | 233.796000 |
| 147 | 0.000000 | 147 | 53.610000 |
| 148 | 0.000000 | 148 | 146.004000 |
| 149 | 1.464520 | 149 | 0.000000 |
| 150 | 0.000000 | 150 | 70.248000 |
| 151 | 0.000000 | 151 | 156.270000 |
| 152 | 0.000000 | 152 | 2557.590500 |
| 153 | 0.288103 | 153 | 0.000000 |
| 154 | 0.000000 | 154 | 173.616000 |
| 155 | 0.504180 | 155 | 0.000000 |
| 156 | 0.792283 | 156 | 0.000000 |
| 157 | 0.000000 | 157 | 184.944000 |
| 158 | 0.672240 | 158 | 0.000000 |
| 159 | 0.000000 | 159 | 46.176000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 160 | 0.000000 | 160 | 291.144000 |
| 161 | 0.000000 | 161 | 52.194000 |
| 162 | 0.000000 | 162 | 149.544000 |
| 163 | 1.560557 | 163 | 0.000000 |
| 164 | 0.000000 | 164 | 135.030000 |
| 165 | 0.000000 | 165 | 172.908000 |
| 166 | 0.000000 | 166 | 449.382000 |
| 167 | 0.000000 | 167 | 177.510000 |
| 168 | 0.000000 | 168 | 220.698000 |
| 169 | 3.169130 | 169 | 0.000000 |
| 170 | 0.000000 | 170 | 193.440000 |
| 171 | 0.000000 | 171 | 34.140000 |
| 172 | 0.000000 | 172 | 227.424000 |
| 173 | 0.192069 | 173 | 0.000000 |
| 174 | 0.000000 | 174 | 154.854000 |
| 175 | 0.000000 | 175 | 404.424000 |
| 176 | 0.000000 | 176 | 172.554000 |
| 177 | 0.000000 | 177 | 189.546000 |
| 178 | 0.576206 | 178 | 0.000000 |
| 179 | 0.000000 | 179 | 179.634000 |
| 180 | 0.000000 | 180 | 30.954000 |
| 181 | 0.000000 | 181 | 199.458000 |
| 182 | 0.000000 | 182 | 200.874000 |
| 183 | 0.000000 | 183 | 446.196000 |
| 184 | 0.000000 | 184 | 187.422000 |
| 185 | 0.000000 | 185 | 221.052000 |
| 186 | 1.584570 | 186 | 0.000000 |
| 187 | 0.000000 | 187 | 203.352000 |
| 188 | 0.000000 | 188 | 42.636000 |
| 189 | 0.000000 | 189 | 228.132000 |
| 190 | 0.000000 | 190 | 143.880000 |
| 191 | 0.120043 | 191 | 0.000000 |
| 192 | 0.000000 | 192 | 207.600000 |
| 193 | 0.000000 | 193 | 466.374000 |
| 194 | 0.000000 | 194 | 218.574000 |
| 195 | 0.000000 | 195 | 253.974000 |
| 196 | 2.784990 | 196 | 0.000000 |
| 197 | 0.000000 | 197 | 239.460000 |
| 198 | 0.000000 | 198 | 64.230000 |
| 199 | 0.000000 | 199 | 232.380000 |
| 200 | 0.000000 | 200 | 127.596000 |
| 201 | 0.000000 | 201 | 409.380000 |
| 202 | 0.000000 | 202 | 155.562000 |
| 203 | 0.000000 | 203 | 170.076000 |
| 204 | 0.792283 | 204 | 0.000000 |
| 205 | 0.000000 | 205 | 180.342000 |
| 206 | 0.000000 | 206 | 28.476000 |
| 207 | 0.000000 | 207 | 183.882000 |
| 208 | 0.000000 | 208 | 155.562000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 209 | 0.000000 | 209 | 436.284000 |
| 210 | 0.000000 | 210 | 179.988000 |
| 211 | 0.000000 | 211 | 202.644000 |
| 212 | 2.280810 | 212 | 0.000000 |
| 213 | 0.000000 | 213 | 198.042000 |
| 214 | 0.000000 | 214 | 30.954000 |
| 215 | 0.000000 | 215 | 207.954000 |
| 216 | 0.000000 | 216 | 151.314000 |
| 217 | 0.480172 | 217 | 0.000000 |
| 218 | 0.000000 | 218 | 160.872000 |
| 219 | 0.000000 | 219 | 455.046000 |
| 220 | 0.000000 | 220 | 186.006000 |
| 221 | 0.000000 | 221 | 238.398000 |
| 222 | -0.000000 | 222 | 0.000000 |
| 223 | 0.000000 | 223 | 223.176000 |
| 224 | 0.000000 | 224 | 217.866000 |
| 225 | 0.000000 | 225 | 2805.744500 |
| 226 | 0.000000 | 226 | 2788.752500 |
| 227 | 0.000000 | 227 | 2779.194500 |
| 228 | 0.000000 | 228 | 2838.666500 |
| 229 | 0.000000 | 229 | 2775.300500 |
| 230 | 0.000000 | 230 | 2677.596500 |
| 231 | 0.000000 | 231 | 2889.288500 |
| 232 | 0.216077 | 232 | 0.000000 |
| 233 | 0.000000 | 233 | 2771.406500 |
| 234 | 0.048017 | 234 | 0.000000 |
| 235 | 0.096034 | 235 | 0.000000 |
| 236 | 0.000000 | 236 | 2672.640500 |
| 237 | 0.000000 | 237 | 2853.534500 |
| 238 | 0.000000 | 238 | 2792.292500 |
| 239 | 0.000000 | 239 | 2680.074500 |
| 240 | 0.000000 | 240 | 2813.532500 |
| 241 | 0.000000 | 241 | 50.778000 |
| 242 | 0.000000 | 242 | 350.616000 |
| 243 | 0.000000 | 243 | 101.046000 |
| 244 | 0.000000 | 244 | 38.034000 |
| 245 | -0.000000 | 245 | 0.000000 |
| 246 | 0.000000 | 246 | 96.444000 |
| 247 | 0.000000 | 247 | 2765.034500 |
| 248 | 0.000000 | 248 | 275.214000 |
| 249 | 0.000000 | 249 | 123.702000 |
| 250 | 30.454680 | 250 | 0.000000 |
| 251 | 0.000000 | 251 | 79.563500 |
| 252 | 0.000000 | 252 | 112.020000 |
| 253 | 0.000000 | 253 | 24.936000 |
| 254 | 0.000000 | 254 | 51.840000 |
| 255 | 0.000000 | 255 | 87.948000 |
| 256 | 13.759640 | 256 | 0.000000 |
| 257 | 0.000000 | 257 | 114.963500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 258 | 0.000000 | 258 | 58.212000 |
| 259 | 0.000000 | 259 | 15.732000 |
| 260 | 0.000000 | 260 | 57.504000 |
| 261 | 0.000000 | 261 | 281.586000 |
| 262 | -0.000000 | 262 | 0.000000 |
| 263 | 0.000000 | 263 | 39.915500 |
| 264 | 0.000000 | 264 | 42.990000 |
| 265 | 0.000000 | 265 | 8.298000 |
| 266 | 0.000000 | 266 | 162.288000 |
| 267 | 0.000000 | 267 | 421.770000 |
| 268 | 0.000000 | 268 | 243.000000 |
| 269 | 0.000000 | 269 | 182.223500 |
| 270 | 0.000000 | 270 | 227.778000 |
| 271 | 0.000000 | 271 | 68.478000 |
| 272 | 0.000000 | 272 | 126.974500 |
| 273 | 0.000000 | 273 | 357.074500 |
| 274 | 0.000000 | 274 | 188.216500 |
| 275 | 0.000000 | 275 | 31.592500 |
| 276 | 0.000000 | 276 | 187.154500 |
| 277 | 0.000000 | 277 | 165.828000 |
| 278 | 0.000000 | 278 | 74.582500 |
| 279 | 0.366924 | 279 | 0.000000 |
| 280 | 3.118850 | 280 | 0.000000 |
| 281 | 2.751930 | 281 | 0.000000 |
| 282 | 0.550386 | 282 | 0.000000 |
| 283 | 2.018080 | 283 | 0.000000 |
| 284 | 1.651160 | 284 | 0.000000 |
| 285 | 1.284230 | 285 | 0.000000 |
| 286 | 1.467700 | 286 | 0.000000 |
| 287 | 0.000000 | 287 | 56.640000 |
| 288 | 0.000000 | 288 | 39.450000 |
| 289 | 0.000000 | 289 | 131.490000 |
| 290 | 0.000000 | 290 | 71.310000 |
| 291 | 4.586550 | 291 | 0.000000 |
| 292 | 0.000000 | 292 | 41.685500 |
| 293 | 0.000000 | 293 | 39.096000 |
| 294 | 0.000000 | 294 | 11.484000 |
| 295 | 0.000000 | 295 | 55.026000 |
| 296 | 0.000000 | 296 | 241.230000 |
| 297 | 0.000000 | 297 | 135.738000 |
| 298 | 4.403090 | 298 | 0.000000 |
| 299 | 0.000000 | 299 | 80.625500 |
| 300 | 0.000000 | 300 | 85.824000 |
| 301 | 0.000000 | 301 | 18.918000 |
| 302 | 0.000000 | 302 | 96.642000 |
| 303 | 4.036160 | 303 | 0.000000 |
| 304 | 1.651160 | 304 | 0.000000 |
| 305 | 1.284230 | 305 | 0.000000 |
| 306 | 1.651160 | 306 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 307 | 0.000000 | 307 | 130.074000 |
| 308 | 0.000000 | 308 | 260.700000 |
| 309 | 0.000000 | 309 | 201.582000 |
| 310 | 4.953470 | 310 | 0.000000 |
| 311 | 0.000000 | 311 | 150.717500 |
| 312 | 0.000000 | 312 | 47.946000 |
| 313 | 1.100770 | 313 | 0.000000 |
| 314 | 1.284230 | 314 | 0.000000 |
| 315 | 2.201540 | 315 | 0.000000 |
| 316 | 0.366924 | 316 | 0.000000 |
| 317 | 0.733848 | 317 | 0.000000 |
| 318 | 0.000000 | 318 | 82.284000 |
| 319 | 0.000000 | 319 | 340.704000 |
| 320 | 0.000000 | 320 | 157.332000 |
| 321 | 2.935390 | 321 | 0.000000 |
| 322 | 0.000000 | 322 | 0.975500 |
| 323 | 0.000000 | 323 | 129.012000 |
| 324 | 0.000000 | 324 | 50.337500 |
| 325 | 0.000000 | 325 | 33.432000 |
| 326 | 1.284230 | 326 | 0.000000 |
| 327 | 3.852700 | 327 | 0.000000 |
| 328 | 1.834620 | 328 | 0.000000 |
| 329 | 2.751930 | 329 | 0.000000 |
| 330 | 2.385000 | 330 | 0.000000 |
| 331 | 3.302310 | 331 | 0.000000 |
| 332 | 1.467700 | 332 | 0.000000 |
| 333 | 0.917310 | 333 | 0.000000 |
| 334 | 0.000000 | 334 | 25.644000 |
| 335 | 0.000000 | 335 | 257.160000 |
| 336 | 0.000000 | 336 | 105.294000 |
| 337 | 4.036160 | 337 | 0.000000 |
| 338 | 0.000000 | 338 | 26.109500 |
| 339 | 0.000000 | 339 | 102.108000 |
| 340 | 0.000000 | 340 | 29.538000 |
| 341 | 0.000000 | 341 | 39.804000 |
| 342 | 0.000000 | 342 | 221.052000 |
| 343 | 0.000000 | 343 | 81.576000 |
| 344 | 6.421170 | 344 | 0.000000 |
| 345 | 0.000000 | 345 | 58.677500 |
| 346 | 0.000000 | 346 | 45.822000 |
| 347 | 0.000000 | 347 | 84.321500 |
| 348 | 0.000000 | 348 | 22.812000 |
| 349 | 0.917310 | 349 | 0.000000 |
| 350 | 2.385000 | 350 | 0.000000 |
| 351 | 0.000000 | 351 | 28.320000 |
| 352 | 3.302310 | 352 | 0.000000 |
| 353 | 0.733848 | 353 | 0.000000 |
| 354 | 3.485780 | 354 | 0.000000 |
| 355 | 0.000000 | 355 | 19.470000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 356 | 2.568470 | 356 | 0.000000 |
| 357 | 0.000000 | 357 | 58.212000 |
| 358 | 0.000000 | 358 | 294.684000 |
| 359 | 0.000000 | 359 | 110.604000 |
| 360 | 3.669240 | 360 | 0.000000 |
| 361 | 0.000000 | 361 | 48.765500 |
| 362 | 0.000000 | 362 | 105.294000 |
| 363 | 0.000000 | 363 | 83.259500 |
| 364 | 0.000000 | 364 | 52.548000 |
| 365 | 0.000000 | 365 | 29.184000 |
| 366 | 0.000000 | 366 | 182.112000 |
| 367 | 0.000000 | 367 | 76.974000 |
| 368 | 4.953470 | 368 | 0.000000 |
| 369 | 0.000000 | 369 | 63.279500 |
| 370 | 0.000000 | 370 | 73.788000 |
| 371 | 0.000000 | 371 | 48.300000 |
| 372 | 2.018080 | 372 | 0.000000 |
| 373 | 2.568470 | 373 | 0.000000 |
| 374 | 0.000000 | 374 | 94.052500 |
| 375 | 1.284230 | 375 | 0.000000 |
| 376 | 2.018080 | 376 | 0.000000 |
| 377 | 0.000000 | 377 | 105.380500 |
| 378 | 2.201540 | 378 | 0.000000 |
| 379 | 0.000000 | 379 | 26.352000 |
| 380 | 0.000000 | 380 | 235.920000 |
| 381 | 0.000000 | 381 | 72.018000 |
| 382 | 14.126562 | 382 | 0.000000 |
| 383 | 0.000000 | 383 | 59.739500 |
| 384 | 0.000000 | 384 | 23.520000 |
| 385 | 0.000000 | 385 | 93.344500 |
| 386 | 0.000000 | 386 | 334.418500 |
| 387 | 0.000000 | 387 | 137.594500 |
| 388 | 0.000000 | 388 | 11.414500 |
| 389 | 10.824300 | 389 | 0.000000 |
| 390 | 0.000000 | 390 | 133.700500 |
| 391 | 0.000000 | 391 | 34.140000 |
| 392 | 0.000000 | 392 | 56.174500 |
| 393 | 0.917310 | 393 | 0.000000 |
| 394 | 0.000000 | 394 | 95.028000 |
| 395 | 0.000000 | 395 | 309.198000 |
| 396 | 0.000000 | 396 | 152.376000 |
| 397 | 4.036160 | 397 | 0.000000 |
| 398 | 0.000000 | 398 | 19.737500 |
| 399 | 0.000000 | 399 | 139.632000 |
| 400 | 0.000000 | 400 | 50.691500 |
| 401 | 0.000000 | 401 | 47.946000 |
| 402 | 0.000000 | 402 | 121.310500 |
| 403 | 0.000000 | 403 | 331.232500 |
| 404 | 0.000000 | 404 | 147.506500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 405 | 0.000000 | 405 | 11.768500 |
| 406 | 4.586550 | 406 | 0.000000 |
| 407 | 0.000000 | 407 | 143.612500 |
| 408 | 0.000000 | 408 | 42.636000 |
| 409 | 0.000000 | 409 | 56.882500 |
| 410 | 0.000000 | 410 | 64.316500 |
| 411 | 1.651160 | 411 | 0.000000 |
| 412 | 0.000000 | 412 | 128.036500 |
| 413 | 0.000000 | 413 | 351.410500 |
| 414 | 0.000000 | 414 | 178.658500 |
| 415 | 0.000000 | 415 | 44.690500 |
| 416 | 9.356560 | 416 | 0.000000 |
| 417 | 0.000000 | 417 | 179.720500 |
| 418 | 0.000000 | 418 | 64.230000 |
| 419 | 0.000000 | 419 | 61.130500 |
| 420 | 0.000000 | 420 | 87.240000 |
| 421 | 0.000000 | 421 | 333.624000 |
| 422 | 0.000000 | 422 | 154.854000 |
| 423 | 4.036160 | 423 | 0.000000 |
| 424 | 0.000000 | 424 | 39.207500 |
| 425 | 0.000000 | 425 | 159.810000 |
| 426 | 0.000000 | 426 | 67.683500 |
| 427 | 0.000000 | 427 | 51.840000 |
| 428 | 0.000000 | 428 | 82.638000 |
| 429 | 0.000000 | 429 | 327.960000 |
| 430 | 0.000000 | 430 | 146.712000 |
| 431 | 6.788090 | 431 | 0.000000 |
| 432 | 0.000000 | 432 | 6.639500 |
| 433 | 0.000000 | 433 | 144.942000 |
| 434 | 0.000000 | 434 | 37.593500 |
| 435 | 0.000000 | 435 | 43.344000 |
| 436 | 0.000000 | 436 | 71.750500 |
| 437 | 2.018080 | 437 | 0.000000 |
| 438 | 0.000000 | 438 | 81.308500 |
| 439 | 0.000000 | 439 | 340.082500 |
| 440 | 0.000000 | 440 | 146.090500 |
| 441 | 0.000000 | 441 | 29.114500 |
| 442 | -0.000000 | 442 | 0.000000 |
| 443 | 0.000000 | 443 | 163.436500 |
| 444 | 0.000000 | 444 | 46.616500 |
| 445 | 0.550386 | 445 | 0.000000 |
| 446 | 0.550386 | 446 | 0.000000 |
| 447 | 0.550386 | 447 | 0.000000 |
| 448 | 0.366924 | 448 | 0.000000 |
| 449 | 0.550386 | 449 | 0.000000 |
| 450 | 3.302310 | 450 | 0.000000 |
| 451 | 0.366924 | 451 | 0.000000 |
| 452 | 0.733848 | 452 | 0.000000 |
| 453 | 0.550386 | 453 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 454 | 0.733848 | 454 | 0.000000 |
| 455 | 0.550386 | 455 | 0.000000 |
| 456 | 2.201540 | 456 | 0.000000 |
| 457 | 2.568470 | 457 | 0.000000 |
| 458 | 0.183462 | 458 | 0.000000 |
| 459 | 0.550386 | 459 | 0.000000 |
| 460 | 0.550386 | 460 | 0.000000 |
| 461 | 0.000000 | 461 | 142.464000 |
| 462 | 0.000000 | 462 | 406.902000 |
| 463 | 0.000000 | 463 | 232.380000 |
| 464 | 4.036160 | 464 | 0.000000 |
| 465 | 0.000000 | 465 | 171.249500 |
| 466 | 0.000000 | 466 | 207.954000 |
| 467 | 1.100770 | 467 | 0.000000 |
| 468 | 0.000000 | 468 | 275.214000 |
| 469 | 0.000000 | 469 | 107.617500 |
| 470 | 17.787432 | 470 | 0.000000 |
| 471 | 0.000000 | 471 | 23.563500 |
| 472 | 0.000000 | 472 | 112.020000 |
| 473 | 0.000000 | 473 | 24.936000 |
| 474 | 0.000000 | 474 | 51.840000 |
| 475 | 0.000000 | 475 | 71.863500 |
| 476 | 10.248388 | 476 | 0.000000 |
| 477 | 0.000000 | 477 | 58.963500 |
| 478 | 0.000000 | 478 | 58.212000 |
| 479 | 0.000000 | 479 | 15.732000 |
| 480 | 0.000000 | 480 | 73.588500 |
| 481 | 0.000000 | 481 | 297.670500 |
| 482 | 0.000000 | 482 | 16.084500 |
| 483 | -0.000000 | 483 | 0.000000 |
| 484 | 0.000000 | 484 | 59.074500 |
| 485 | 0.000000 | 485 | 24.382500 |
| 486 | 0.000000 | 486 | 162.288000 |
| 487 | 0.000000 | 487 | 421.770000 |
| 488 | 0.000000 | 488 | 226.915500 |
| 489 | 0.000000 | 489 | 126.223500 |
| 490 | 0.000000 | 490 | 227.778000 |
| 491 | 0.000000 | 491 | 68.478000 |
| 492 | 0.000000 | 492 | 182.974500 |
| 493 | 0.000000 | 493 | 413.074500 |
| 494 | 0.000000 | 494 | 228.132000 |
| 495 | 0.000000 | 495 | 87.592500 |
| 496 | 0.000000 | 496 | 243.154500 |
| 497 | 0.000000 | 497 | 165.828000 |
| 498 | 0.000000 | 498 | 130.582500 |
| 499 | 0.353393 | 499 | 0.000000 |
| 500 | 2.238150 | 500 | 0.000000 |
| 501 | 1.413570 | 501 | 0.000000 |
| 502 | 0.471190 | 502 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 503 | 1.531370 | 503 | 0.000000 |
| 504 | 0.942381 | 504 | 0.000000 |
| 505 | 0.942381 | 505 | 0.000000 |
| 506 | 0.706785 | 506 | 0.000000 |
| 507 | 0.000000 | 507 | 56.640000 |
| 508 | 0.000000 | 508 | 53.764500 |
| 509 | 0.000000 | 509 | 145.804500 |
| 510 | 0.000000 | 510 | 69.540000 |
| 511 | 0.000000 | 511 | 14.314500 |
| 512 | 2.944940 | 512 | 0.000000 |
| 513 | 0.000000 | 513 | 53.410500 |
| 514 | 0.000000 | 514 | 25.798500 |
| 515 | 0.000000 | 515 | 55.026000 |
| 516 | 0.000000 | 516 | 241.230000 |
| 517 | 0.000000 | 517 | 119.653500 |
| 518 | 3.062740 | 518 | 0.000000 |
| 519 | 0.000000 | 519 | 24.625500 |
| 520 | 0.000000 | 520 | 85.824000 |
| 521 | 0.000000 | 521 | 18.918000 |
| 522 | 0.000000 | 522 | 96.642000 |
| 523 | 2.002560 | 523 | 0.000000 |
| 524 | 0.824583 | 524 | 0.000000 |
| 525 | 0.824583 | 525 | 0.000000 |
| 526 | 1.177980 | 526 | 0.000000 |
| 527 | 0.000000 | 527 | 130.074000 |
| 528 | 0.000000 | 528 | 260.700000 |
| 529 | 0.000000 | 529 | 185.497500 |
| 530 | 2.591550 | 530 | 0.000000 |
| 531 | 0.000000 | 531 | 94.717500 |
| 532 | 0.000000 | 532 | 47.946000 |
| 533 | 0.588988 | 533 | 0.000000 |
| 534 | 0.824583 | 534 | 0.000000 |
| 535 | 1.884760 | 535 | 0.000000 |
| 536 | 0.235595 | 536 | 0.000000 |
| 537 | 0.706785 | 537 | 0.000000 |
| 538 | 0.000000 | 538 | 137.308500 |
| 539 | 0.000000 | 539 | 395.728500 |
| 540 | 0.000000 | 540 | 196.272000 |
| 541 | 0.000000 | 541 | 55.024500 |
| 542 | 2.591550 | 542 | 0.000000 |
| 543 | 0.000000 | 543 | 184.036500 |
| 544 | 0.000000 | 544 | 49.362000 |
| 545 | 0.000000 | 545 | 88.456500 |
| 546 | 0.824583 | 546 | 0.000000 |
| 547 | 2.473750 | 547 | 0.000000 |
| 548 | 0.942381 | 548 | 0.000000 |
| 549 | 1.766960 | 549 | 0.000000 |
| 550 | 1.531370 | 550 | 0.000000 |
| 551 | 2.473750 | 551 | 0.000000 |

Continua na próxima página

| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 552 | 0.942381 | 552 | 0.000000 |
| 553 | 0.824583 | 553 | 0.000000 |
| 554 | 0.000000 | 554 | 55.534500 |
| 555 | 0.000000 | 555 | 287.050500 |
| 556 | 0.000000 | 556 | 119.100000 |
| 557 | 0.000000 | 557 | 29.890500 |
| 558 | 2.591550 | 558 | 0.000000 |
| 559 | 0.000000 | 559 | 131.998500 |
| 560 | 0.000000 | 560 | 59.428500 |
| 561 | 0.000000 | 561 | 39.804000 |
| 562 | 0.000000 | 562 | 221.052000 |
| 563 | 0.000000 | 563 | 65.491500 |
| 564 | 5.300890 | 564 | 0.000000 |
| 565 | 0.000000 | 565 | 2.677500 |
| 566 | 0.000000 | 566 | 45.822000 |
| 567 | 0.000000 | 567 | 28.321500 |
| 568 | 0.000000 | 568 | 22.812000 |
| 569 | 0.471190 | 569 | 0.000000 |
| 570 | 1.060180 | 570 | 0.000000 |
| 571 | 0.000000 | 571 | 28.320000 |
| 572 | 2.238150 | 572 | 0.000000 |
| 573 | 0.353393 | 573 | 0.000000 |
| 574 | 2.120360 | 574 | 0.000000 |
| 575 | 0.000000 | 575 | 19.470000 |
| 576 | 1.766960 | 576 | 0.000000 |
| 577 | 0.000000 | 577 | 65.446500 |
| 578 | 0.000000 | 578 | 301.918500 |
| 579 | 0.000000 | 579 | 101.754000 |
| 580 | 0.000000 | 580 | 7.234500 |
| 581 | 3.416130 | 581 | 0.000000 |
| 582 | 0.000000 | 582 | 112.528500 |
| 583 | 0.000000 | 583 | 34.494000 |
| 584 | 0.000000 | 584 | 59.782500 |
| 585 | 0.000000 | 585 | 29.184000 |
| 586 | 0.000000 | 586 | 182.112000 |
| 587 | 0.000000 | 587 | 60.889500 |
| 588 | 3.298330 | 588 | 0.000000 |
| 589 | 0.000000 | 589 | 7.279500 |
| 590 | 0.000000 | 590 | 73.788000 |
| 591 | 0.000000 | 591 | 48.300000 |
| 592 | 1.060180 | 592 | 0.000000 |
| 593 | 1.295770 | 593 | 0.000000 |
| 594 | 0.000000 | 594 | 150.052500 |
| 595 | 0.942381 | 595 | 0.000000 |
| 596 | 1.295770 | 596 | 0.000000 |
| 597 | 0.000000 | 597 | 161.380500 |
| 598 | 1.060180 | 598 | 0.000000 |
| 599 | 0.000000 | 599 | 26.352000 |
| 600 | 0.000000 | 600 | 235.920000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 601 | 0.000000 | 601 | 55.933500 |
| 602 | 10.012786 | 602 | 0.000000 |
| 603 | 0.000000 | 603 | 3.739500 |
| 604 | 0.000000 | 604 | 23.520000 |
| 605 | 0.000000 | 605 | 149.344500 |
| 606 | 0.000000 | 606 | 390.418500 |
| 607 | 0.000000 | 607 | 177.510000 |
| 608 | 0.000000 | 608 | 67.414500 |
| 609 | 4.829700 | 609 | 0.000000 |
| 610 | 0.000000 | 610 | 189.700500 |
| 611 | 0.000000 | 611 | 34.140000 |
| 612 | 0.000000 | 612 | 112.174500 |
| 613 | 0.588988 | 613 | 0.000000 |
| 614 | 0.000000 | 614 | 131.290500 |
| 615 | 0.000000 | 615 | 345.460500 |
| 616 | 0.000000 | 616 | 172.554000 |
| 617 | 0.000000 | 617 | 36.262500 |
| 618 | 2.238150 | 618 | 0.000000 |
| 619 | 0.000000 | 619 | 175.894500 |
| 620 | 0.000000 | 620 | 30.954000 |
| 621 | 0.000000 | 621 | 84.208500 |
| 622 | 0.000000 | 622 | 177.310500 |
| 623 | 0.000000 | 623 | 387.232500 |
| 624 | 0.000000 | 624 | 187.422000 |
| 625 | 0.000000 | 625 | 67.768500 |
| 626 | 2.827140 | 626 | 0.000000 |
| 627 | 0.000000 | 627 | 199.612500 |
| 628 | 0.000000 | 628 | 42.636000 |
| 629 | 0.000000 | 629 | 112.882500 |
| 630 | 0.000000 | 630 | 120.316500 |
| 631 | 0.942381 | 631 | 0.000000 |
| 632 | 0.000000 | 632 | 184.036500 |
| 633 | 0.000000 | 633 | 407.410500 |
| 634 | 0.000000 | 634 | 218.574000 |
| 635 | 0.000000 | 635 | 100.690500 |
| 636 | 4.947500 | 636 | 0.000000 |
| 637 | 0.000000 | 637 | 235.720500 |
| 638 | 0.000000 | 638 | 64.230000 |
| 639 | 0.000000 | 639 | 117.130500 |
| 640 | 0.000000 | 640 | 104.032500 |
| 641 | 0.000000 | 641 | 350.416500 |
| 642 | 0.000000 | 642 | 155.562000 |
| 643 | 0.000000 | 643 | 16.792500 |
| 644 | 2.827140 | 644 | 0.000000 |
| 645 | 0.000000 | 645 | 176.602500 |
| 646 | 0.000000 | 646 | 28.476000 |
| 647 | 0.000000 | 647 | 68.632500 |
| 648 | 0.000000 | 648 | 131.998500 |
| 649 | 0.000000 | 649 | 377.320500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 650 | 0.000000 | 650 | 179.988000 |
| 651 | 0.000000 | 651 | 49.360500 |
| 652 | 4.122910 | 652 | 0.000000 |
| 653 | 0.000000 | 653 | 194.302500 |
| 654 | 0.000000 | 654 | 30.954000 |
| 655 | 0.000000 | 655 | 92.704500 |
| 656 | 0.000000 | 656 | 127.750500 |
| 657 | 1.295770 | 657 | 0.000000 |
| 658 | 0.000000 | 658 | 137.308500 |
| 659 | 0.000000 | 659 | 396.082500 |
| 660 | 0.000000 | 660 | 186.006000 |
| 661 | 0.000000 | 661 | 85.114500 |
| 662 | -0.000000 | 662 | 0.000000 |
| 663 | 0.000000 | 663 | 219.436500 |
| 664 | 0.000000 | 664 | 102.616500 |
| 665 | 0.353393 | 665 | 0.000000 |
| 666 | 0.353393 | 666 | 0.000000 |
| 667 | 0.471190 | 667 | 0.000000 |
| 668 | 0.235595 | 668 | 0.000000 |
| 669 | 0.353393 | 669 | 0.000000 |
| 670 | 2.355950 | 670 | 0.000000 |
| 671 | 0.235595 | 671 | 0.000000 |
| 672 | 0.588988 | 672 | 0.000000 |
| 673 | 0.353393 | 673 | 0.000000 |
| 674 | 0.942381 | 674 | 0.000000 |
| 675 | 0.235595 | 675 | 0.000000 |
| 676 | 1.531370 | 676 | 0.000000 |
| 677 | 1.884760 | 677 | 0.000000 |
| 678 | 0.235595 | 678 | 0.000000 |
| 679 | 0.471190 | 679 | 0.000000 |
| 680 | 0.471190 | 680 | 0.000000 |
| 681 | 0.000000 | 681 | 142.464000 |
| 682 | 0.000000 | 682 | 406.902000 |
| 683 | 0.000000 | 683 | 216.295500 |
| 684 | 2.002560 | 684 | 0.000000 |
| 685 | 0.000000 | 685 | 115.249500 |
| 686 | 0.000000 | 686 | 207.954000 |
| 687 | 0.706785 | 687 | 0.000000 |
| 688 | 0.000000 | 688 | 275.214000 |
| 689 | 0.000000 | 689 | 123.702000 |
| 690 | 12.242506 | 690 | 0.000000 |
| 691 | 0.000000 | 691 | 60.563500 |
| 692 | 0.000000 | 692 | 112.020000 |
| 693 | 0.000000 | 693 | 24.936000 |
| 694 | 0.000000 | 694 | 51.840000 |
| 695 | 0.000000 | 695 | 87.948000 |
| 696 | 3.597025 | 696 | 0.000000 |
| 697 | 0.000000 | 697 | 95.963500 |
| 698 | 0.000000 | 698 | 58.212000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 699 | 0.000000 | 699 | 15.732000 |
| 700 | 0.000000 | 700 | 57.504000 |
| 701 | 0.000000 | 701 | 281.586000 |
| 702 | -0.000000 | 702 | 0.000000 |
| 703 | 0.000000 | 703 | 20.915500 |
| 704 | 0.000000 | 704 | 42.990000 |
| 705 | 0.000000 | 705 | 8.298000 |
| 706 | 0.000000 | 706 | 162.288000 |
| 707 | 0.000000 | 707 | 421.770000 |
| 708 | 0.000000 | 708 | 243.000000 |
| 709 | 0.000000 | 709 | 163.223500 |
| 710 | 0.000000 | 710 | 227.778000 |
| 711 | 0.000000 | 711 | 68.478000 |
| 712 | 0.000000 | 712 | 173.034500 |
| 713 | 0.000000 | 713 | 403.134500 |
| 714 | 0.000000 | 714 | 234.276500 |
| 715 | 0.000000 | 715 | 77.652500 |
| 716 | 0.000000 | 716 | 233.214500 |
| 717 | 0.000000 | 717 | 192.888000 |
| 718 | 0.000000 | 718 | 120.642500 |
| 719 | 0.189317 | 719 | 0.000000 |
| 720 | 1.577640 | 720 | 0.000000 |
| 721 | 1.072800 | 721 | 0.000000 |
| 722 | 0.252423 | 722 | 0.000000 |
| 723 | 0.820374 | 723 | 0.000000 |
| 724 | 0.126211 | 724 | 0.000000 |
| 725 | 0.441740 | 725 | 0.000000 |
| 726 | -0.000000 | 726 | 0.000000 |
| 727 | 0.000000 | 727 | 56.640000 |
| 728 | 0.000000 | 728 | 39.450000 |
| 729 | 0.000000 | 729 | 131.490000 |
| 730 | 0.000000 | 730 | 71.310000 |
| 731 | 1.893170 | 731 | 0.000000 |
| 732 | 0.000000 | 732 | 22.685500 |
| 733 | 0.000000 | 733 | 39.096000 |
| 734 | 0.000000 | 734 | 11.484000 |
| 735 | 0.000000 | 735 | 55.026000 |
| 736 | 0.000000 | 736 | 241.230000 |
| 737 | 0.000000 | 737 | 135.738000 |
| 738 | 0.567951 | 738 | 0.000000 |
| 739 | 0.000000 | 739 | 61.625500 |
| 740 | 0.000000 | 740 | 85.824000 |
| 741 | 0.000000 | 741 | 18.918000 |
| 742 | 0.000000 | 742 | 96.642000 |
| 743 | -0.000000 | 743 | 0.000000 |
| 744 | 0.000000 | 744 | 2393.911000 |
| 745 | 0.000000 | 745 | 2395.681000 |
| 746 | 0.000000 | 746 | 2379.397000 |
| 747 | 0.000000 | 747 | 130.074000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 748 | 0.000000 | 748 | 260.700000 |
| 749 | 0.000000 | 749 | 201.582000 |
| 750 | 0.567951 | 750 | 0.000000 |
| 751 | 0.000000 | 751 | 131.717500 |
| 752 | 0.000000 | 752 | 47.946000 |
| 753 | 0.126211 | 753 | 0.000000 |
| 754 | 0.126211 | 754 | 0.000000 |
| 755 | 0.441740 | 755 | 0.000000 |
| 756 | 0.000000 | 756 | 2434.975000 |
| 757 | 0.315529 | 757 | 0.000000 |
| 758 | 0.000000 | 758 | 100.308500 |
| 759 | 0.000000 | 759 | 358.728500 |
| 760 | 0.000000 | 760 | 175.356500 |
| 761 | 0.000000 | 761 | 18.024500 |
| 762 | 1.451430 | 762 | 0.000000 |
| 763 | 0.000000 | 763 | 147.036500 |
| 764 | 0.000000 | 764 | 49.362000 |
| 765 | 0.000000 | 765 | 51.456500 |
| 766 | 0.063106 | 766 | 0.000000 |
| 767 | 2.208700 | 767 | 0.000000 |
| 768 | 0.946586 | 768 | 0.000000 |
| 769 | 0.378634 | 769 | 0.000000 |
| 770 | 0.378634 | 770 | 0.000000 |
| 771 | 0.441740 | 771 | 0.000000 |
| 772 | 0.000000 | 772 | 2382.583000 |
| 773 | 0.757269 | 773 | 0.000000 |
| 774 | 0.000000 | 774 | 25.644000 |
| 775 | 0.000000 | 775 | 257.160000 |
| 776 | 0.000000 | 776 | 105.294000 |
| 777 | 1.766960 | 777 | 0.000000 |
| 778 | 0.000000 | 778 | 7.109500 |
| 779 | 0.000000 | 779 | 102.108000 |
| 780 | 0.000000 | 780 | 29.538000 |
| 781 | 0.000000 | 781 | 39.804000 |
| 782 | 0.000000 | 782 | 221.052000 |
| 783 | 0.000000 | 783 | 81.576000 |
| 784 | 2.965970 | 784 | 0.000000 |
| 785 | 0.000000 | 785 | 39.677500 |
| 786 | 0.000000 | 786 | 45.822000 |
| 787 | 0.000000 | 787 | 65.321500 |
| 788 | 0.000000 | 788 | 22.812000 |
| 789 | 0.315529 | 789 | 0.000000 |
| 790 | 0.631057 | 790 | 0.000000 |
| 791 | 0.000000 | 791 | 28.320000 |
| 792 | 1.199010 | 792 | 0.000000 |
| 793 | 0.189317 | 793 | 0.000000 |
| 794 | 2.019380 | 794 | 0.000000 |
| 795 | 0.000000 | 795 | 19.470000 |
| 796 | 1.451430 | 796 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 797 | 0.000000 | 797 | 58.212000 |
| 798 | 0.000000 | 798 | 294.684000 |
| 799 | 0.000000 | 799 | 110.604000 |
| 800 | 2.398020 | 800 | 0.000000 |
| 801 | 0.000000 | 801 | 29.765500 |
| 802 | 0.000000 | 802 | 105.294000 |
| 803 | 0.000000 | 803 | 64.259500 |
| 804 | 0.000000 | 804 | 52.548000 |
| 805 | 0.000000 | 805 | 29.184000 |
| 806 | 0.000000 | 806 | 182.112000 |
| 807 | 0.000000 | 807 | 76.974000 |
| 808 | 1.640750 | 808 | 0.000000 |
| 809 | 0.000000 | 809 | 44.279500 |
| 810 | 0.000000 | 810 | 73.788000 |
| 811 | 0.000000 | 811 | 48.300000 |
| 812 | 1.009690 | 812 | 0.000000 |
| 813 | 0.820374 | 813 | 0.000000 |
| 814 | 0.000000 | 814 | 113.052500 |
| 815 | 0.567951 | 815 | 0.000000 |
| 816 | 1.199010 | 816 | 0.000000 |
| 817 | 0.000000 | 817 | 124.380500 |
| 818 | 1.199010 | 818 | 0.000000 |
| 819 | 0.000000 | 819 | 26.352000 |
| 820 | 0.000000 | 820 | 235.920000 |
| 821 | 0.000000 | 821 | 72.018000 |
| 822 | 6.373682 | 822 | 0.000000 |
| 823 | 0.000000 | 823 | 40.739500 |
| 824 | 0.000000 | 824 | 23.520000 |
| 825 | 0.000000 | 825 | 112.344500 |
| 826 | 0.000000 | 826 | 353.418500 |
| 827 | 0.000000 | 827 | 156.594500 |
| 828 | 0.000000 | 828 | 30.414500 |
| 829 | 4.669820 | 829 | 0.000000 |
| 830 | 0.000000 | 830 | 152.700500 |
| 831 | 0.000000 | 831 | 34.140000 |
| 832 | 0.000000 | 832 | 75.174500 |
| 833 | 0.504846 | 833 | 0.000000 |
| 834 | 0.000000 | 834 | 95.028000 |
| 835 | 0.000000 | 835 | 309.198000 |
| 836 | 0.000000 | 836 | 152.376000 |
| 837 | 1.514540 | 837 | 0.000000 |
| 838 | 0.000000 | 838 | 0.737500 |
| 839 | 0.000000 | 839 | 139.632000 |
| 840 | 0.000000 | 840 | 31.691500 |
| 841 | 0.000000 | 841 | 47.946000 |
| 842 | 0.000000 | 842 | 140.310500 |
| 843 | 0.000000 | 843 | 350.232500 |
| 844 | 0.000000 | 844 | 166.506500 |
| 845 | 0.000000 | 845 | 30.768500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 846 | 1.388330 | 846 | 0.000000 |
| 847 | 0.000000 | 847 | 162.612500 |
| 848 | 0.000000 | 848 | 42.636000 |
| 849 | 0.000000 | 849 | 75.882500 |
| 850 | 0.000000 | 850 | 83.316500 |
| 851 | 0.252423 | 851 | 0.000000 |
| 852 | 0.000000 | 852 | 147.036500 |
| 853 | 0.000000 | 853 | 370.410500 |
| 854 | 0.000000 | 854 | 197.658500 |
| 855 | 0.000000 | 855 | 63.690500 |
| 856 | 3.533920 | 856 | 0.000000 |
| 857 | 0.000000 | 857 | 198.720500 |
| 858 | 0.000000 | 858 | 64.230000 |
| 859 | 0.000000 | 859 | 80.130500 |
| 860 | 0.000000 | 860 | 87.240000 |
| 861 | 0.000000 | 861 | 333.624000 |
| 862 | 0.000000 | 862 | 154.854000 |
| 863 | 1.766960 | 863 | 0.000000 |
| 864 | 0.000000 | 864 | 20.207500 |
| 865 | 0.000000 | 865 | 159.810000 |
| 866 | 0.000000 | 866 | 48.683500 |
| 867 | 0.000000 | 867 | 51.840000 |
| 868 | 0.000000 | 868 | 94.998500 |
| 869 | 0.000000 | 869 | 340.320500 |
| 870 | 0.000000 | 870 | 159.072500 |
| 871 | 0.000000 | 871 | 12.360500 |
| 872 | 2.334910 | 872 | 0.000000 |
| 873 | 0.000000 | 873 | 157.302500 |
| 874 | 0.000000 | 874 | 30.954000 |
| 875 | 0.000000 | 875 | 55.704500 |
| 876 | 0.000000 | 876 | 90.750500 |
| 877 | 0.820374 | 877 | 0.000000 |
| 878 | 0.000000 | 878 | 100.308500 |
| 879 | 0.000000 | 879 | 359.082500 |
| 880 | 0.000000 | 880 | 165.090500 |
| 881 | 0.000000 | 881 | 48.114500 |
| 882 | -0.000000 | 882 | 0.000000 |
| 883 | 0.000000 | 883 | 182.436500 |
| 884 | 0.000000 | 884 | 65.616500 |
| 885 | 0.063106 | 885 | 0.000000 |
| 886 | 0.126211 | 886 | 0.000000 |
| 887 | 0.189317 | 887 | 0.000000 |
| 888 | 0.126211 | 888 | 0.000000 |
| 889 | 0.252423 | 889 | 0.000000 |
| 890 | 1.388330 | 890 | 0.000000 |
| 891 | 0.063106 | 891 | 0.000000 |
| 892 | 0.441740 | 892 | 0.000000 |
| 893 | 0.252423 | 893 | 0.000000 |
| 894 | 0.441740 | 894 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 895 | 0.315529 | 895 | 0.000000 |
| 896 | 0.757269 | 896 | 0.000000 |
| 897 | 0.252423 | 897 | 0.000000 |
| 898 | 0.063106 | 898 | 0.000000 |
| 899 | 0.000000 | 899 | 2471.791000 |
| 900 | 0.189317 | 900 | 0.000000 |
| 901 | 0.000000 | 901 | 142.464000 |
| 902 | 0.000000 | 902 | 406.902000 |
| 903 | 0.000000 | 903 | 232.380000 |
| 904 | -0.000000 | 904 | 0.000000 |
| 905 | 0.000000 | 905 | 152.249500 |
| 906 | 0.000000 | 906 | 207.954000 |
| 907 | 0.378634 | 907 | 0.000000 |
| 908 | 0.000000 | 908 | 310.614000 |
| 909 | 0.000000 | 909 | 84.054000 |
| 910 | 0.000000 | 910 | 129.720000 |
| 911 | 8.328207 | 911 | 0.000000 |
| 912 | 0.000000 | 912 | 92.196000 |
| 913 | 0.000000 | 913 | 116.622000 |
| 914 | 0.000000 | 914 | 16.440000 |
| 915 | 0.000000 | 915 | 12.900000 |
| 916 | 0.000000 | 916 | 94.320000 |
| 917 | 4.128205 | 917 | 0.000000 |
| 918 | 0.000000 | 918 | 2.988000 |
| 919 | 0.000000 | 919 | 72.018000 |
| 920 | 0.000000 | 920 | 97.152000 |
| 921 | 0.000000 | 921 | 356.634000 |
| 922 | 0.000000 | 922 | 169.368000 |
| 923 | -0.000000 | 923 | 0.000000 |
| 924 | 0.000000 | 924 | 62.814000 |
| 925 | 0.000000 | 925 | 139.632000 |
| 926 | 0.000000 | 926 | 59.628000 |
| 927 | 0.000000 | 927 | 354.510000 |
| 928 | 0.000000 | 928 | 100.692000 |
| 929 | 0.502564 | 929 | 0.000000 |
| 930 | 0.000000 | 930 | 105.294000 |
| 931 | 0.000000 | 931 | 57.504000 |
| 932 | 0.000000 | 932 | 233.598000 |
| 933 | 0.000000 | 933 | 499.098000 |
| 934 | 0.000000 | 934 | 255.192000 |
| 935 | 0.000000 | 935 | 267.936000 |
| 936 | 0.000000 | 936 | 273.954000 |
| 937 | 0.000000 | 937 | 192.888000 |
| 938 | 0.000000 | 938 | 272.892000 |
| 939 | 0.215385 | 939 | 0.000000 |
| 940 | 0.969231 | 940 | 0.000000 |
| 941 | 0.969231 | 941 | 0.000000 |
| 942 | 0.358974 | 942 | 0.000000 |
| 943 | 0.969231 | 943 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 944 | 0.143590 | 944 | 0.000000 |
| 945 | 0.502564 | 945 | 0.000000 |
| 946 | -0.000000 | 946 | 0.000000 |
| 947 | 0.000000 | 947 | 36.816000 |
| 948 | 0.000000 | 948 | 77.328000 |
| 949 | 0.000000 | 949 | 204.768000 |
| 950 | 0.000000 | 950 | 69.540000 |
| 951 | 0.000000 | 951 | 167.598000 |
| 952 | 1.974360 | 952 | 0.000000 |
| 953 | 0.000000 | 953 | 57.150000 |
| 954 | 0.000000 | 954 | 141.048000 |
| 955 | 0.000000 | 955 | 53.964000 |
| 956 | 0.000000 | 956 | 275.568000 |
| 957 | 0.000000 | 957 | 95.028000 |
| 958 | 0.000000 | 958 | 128.658000 |
| 959 | 0.682051 | 959 | 0.000000 |
| 960 | 0.000000 | 960 | 64.938000 |
| 961 | 0.000000 | 961 | 109.542000 |
| 962 | 0.000000 | 962 | 4.956000 |
| 963 | -0.000000 | 963 | 0.000000 |
| 964 | 0.000000 | 964 | 2516.194500 |
| 965 | 0.000000 | 965 | 2517.964500 |
| 966 | 0.000000 | 966 | 2501.680500 |
| 967 | 0.000000 | 967 | 58.920000 |
| 968 | 0.000000 | 968 | 224.946000 |
| 969 | 0.000000 | 969 | 90.780000 |
| 970 | 0.000000 | 970 | 58.566000 |
| 971 | 0.574359 | 971 | 0.000000 |
| 972 | 0.000000 | 972 | 68.478000 |
| 973 | 0.000000 | 973 | 2540.974500 |
| 974 | 0.107692 | 974 | 0.000000 |
| 975 | 0.358974 | 975 | 0.000000 |
| 976 | 0.000000 | 976 | 2557.258500 |
| 977 | 0.502564 | 977 | 0.000000 |
| 978 | 0.000000 | 978 | 160.872000 |
| 979 | 0.000000 | 979 | 454.692000 |
| 980 | 0.000000 | 980 | 196.272000 |
| 981 | 0.000000 | 981 | 208.308000 |
| 982 | 0.251282 | 982 | 0.000000 |
| 983 | 0.000000 | 983 | 187.776000 |
| 984 | 0.000000 | 984 | 49.362000 |
| 985 | 0.000000 | 985 | 203.706000 |
| 986 | 0.071795 | 986 | 0.000000 |
| 987 | 0.000000 | 987 | 2569.294500 |
| 988 | 0.933333 | 988 | 0.000000 |
| 989 | 0.000000 | 989 | 2517.256500 |
| 990 | 0.466667 | 990 | 0.000000 |
| 991 | 0.143590 | 991 | 0.000000 |
| 992 | 0.000000 | 992 | 2504.866500 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 993 | 0.394872 | 993 | 0.000000 |
| 994 | 0.000000 | 994 | 79.098000 |
| 995 | 0.000000 | 995 | 346.014000 |
| 996 | 0.000000 | 996 | 119.100000 |
| 997 | 0.000000 | 997 | 183.174000 |
| 998 | 1.076920 | 998 | 0.000000 |
| 999 | 0.000000 | 999 | 135.738000 |
| 1000 | 0.000000 | 1000 | 174.678000 |
| 1001 | 0.000000 | 1001 | 60.690000 |
| 1002 | 0.000000 | 1002 | 277.338000 |
| 1003 | 0.000000 | 1003 | 62.814000 |
| 1004 | 0.000000 | 1004 | 150.606000 |
| 1005 | 0.682051 | 1005 | 0.000000 |
| 1006 | 0.000000 | 1006 | 46.884000 |
| 1007 | 0.000000 | 1007 | 25.644000 |
| 1008 | 0.000000 | 1008 | 135.384000 |
| 1009 | 0.394872 | 1009 | 0.000000 |
| 1010 | -0.000000 | 1010 | 0.000000 |
| 1011 | 0.000000 | 1011 | 8.496000 |
| 1012 | 0.897436 | 1012 | 0.000000 |
| 1013 | 0.251282 | 1013 | 0.000000 |
| 1014 | 0.000000 | 1014 | 0.354000 |
| 1015 | 1.292310 | 1015 | 0.000000 |
| 1016 | 0.610256 | 1016 | 0.000000 |
| 1017 | 0.000000 | 1017 | 89.010000 |
| 1018 | 0.000000 | 1018 | 360.882000 |
| 1019 | 0.000000 | 1019 | 101.754000 |
| 1020 | 0.000000 | 1020 | 160.518000 |
| 1021 | 1.256410 | 1021 | 0.000000 |
| 1022 | 0.000000 | 1022 | 116.268000 |
| 1023 | 0.000000 | 1023 | 34.494000 |
| 1024 | 0.000000 | 1024 | 175.032000 |
| 1025 | 0.000000 | 1025 | 45.468000 |
| 1026 | 0.000000 | 1026 | 233.796000 |
| 1027 | 0.000000 | 1027 | 53.610000 |
| 1028 | 0.000000 | 1028 | 146.004000 |
| 1029 | 1.076920 | 1029 | 0.000000 |
| 1030 | 0.000000 | 1030 | 70.248000 |
| 1031 | 0.000000 | 1031 | 156.270000 |
| 1032 | 0.717949 | 1032 | 0.000000 |
| 1033 | 0.753846 | 1033 | 0.000000 |
| 1034 | 0.000000 | 1034 | 173.616000 |
| 1035 | 0.071795 | 1035 | 0.000000 |
| 1036 | 0.789744 | 1036 | 0.000000 |
| 1037 | 0.000000 | 1037 | 184.944000 |
| 1038 | 0.179487 | 1038 | 0.000000 |
| 1039 | 0.000000 | 1039 | 46.176000 |
| 1040 | 0.000000 | 1040 | 291.144000 |
| 1041 | 0.000000 | 1041 | 52.194000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 1042 | 0.000000 | 1042 | 149.544000 |
| 1043 | 5.887182 | 1043 | 0.000000 |
| 1044 | 0.000000 | 1044 | 135.030000 |
| 1045 | 0.000000 | 1045 | 172.908000 |
| 1046 | 0.000000 | 1046 | 449.382000 |
| 1047 | 0.000000 | 1047 | 177.510000 |
| 1048 | 0.000000 | 1048 | 220.698000 |
| 1049 | 0.717949 | 1049 | 0.000000 |
| 1050 | 0.000000 | 1050 | 193.440000 |
| 1051 | 0.000000 | 1051 | 34.140000 |
| 1052 | 0.000000 | 1052 | 227.424000 |
| 1053 | 0.538462 | 1053 | 0.000000 |
| 1054 | 0.000000 | 1054 | 154.854000 |
| 1055 | 0.000000 | 1055 | 404.424000 |
| 1056 | 0.000000 | 1056 | 172.554000 |
| 1057 | 0.000000 | 1057 | 189.546000 |
| 1058 | 1.076920 | 1058 | 0.000000 |
| 1059 | 0.000000 | 1059 | 179.634000 |
| 1060 | 0.000000 | 1060 | 30.954000 |
| 1061 | 0.000000 | 1061 | 199.458000 |
| 1062 | 0.000000 | 1062 | 200.874000 |
| 1063 | 0.000000 | 1063 | 446.196000 |
| 1064 | 0.000000 | 1064 | 187.422000 |
| 1065 | 0.000000 | 1065 | 221.052000 |
| 1066 | 0.574359 | 1066 | 0.000000 |
| 1067 | 0.000000 | 1067 | 203.352000 |
| 1068 | 0.000000 | 1068 | 42.636000 |
| 1069 | 0.000000 | 1069 | 228.132000 |
| 1070 | 0.000000 | 1070 | 143.880000 |
| 1071 | 0.179487 | 1071 | 0.000000 |
| 1072 | 0.000000 | 1072 | 207.600000 |
| 1073 | 0.000000 | 1073 | 466.374000 |
| 1074 | 0.000000 | 1074 | 218.574000 |
| 1075 | 0.000000 | 1075 | 253.974000 |
| 1076 | 2.010260 | 1076 | 0.000000 |
| 1077 | 0.000000 | 1077 | 239.460000 |
| 1078 | 0.000000 | 1078 | 64.230000 |
| 1079 | 0.000000 | 1079 | 232.380000 |
| 1080 | 0.000000 | 1080 | 127.596000 |
| 1081 | 0.000000 | 1081 | 409.380000 |
| 1082 | 0.000000 | 1082 | 155.562000 |
| 1083 | 0.000000 | 1083 | 170.076000 |
| 1084 | 0.215385 | 1084 | 0.000000 |
| 1085 | 0.000000 | 1085 | 180.342000 |
| 1086 | 0.000000 | 1086 | 28.476000 |
| 1087 | 0.000000 | 1087 | 183.882000 |
| 1088 | 0.000000 | 1088 | 155.562000 |
| 1089 | 0.000000 | 1089 | 436.284000 |
| 1090 | 0.000000 | 1090 | 179.988000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1091 | 0.000000 | 1091 | 202.644000 |
| 1092 | 0.179487 | 1092 | 0.000000 |
| 1093 | 0.000000 | 1093 | 198.042000 |
| 1094 | 0.000000 | 1094 | 30.954000 |
| 1095 | 0.000000 | 1095 | 207.954000 |
| 1096 | 0.000000 | 1096 | 151.314000 |
| 1097 | 0.574359 | 1097 | 0.000000 |
| 1098 | 0.000000 | 1098 | 160.872000 |
| 1099 | 0.000000 | 1099 | 455.046000 |
| 1100 | 0.000000 | 1100 | 186.006000 |
| 1101 | 0.000000 | 1101 | 238.398000 |
| 1102 | -0.000000 | 1102 | 0.000000 |
| 1103 | 0.000000 | 1103 | 223.176000 |
| 1104 | 0.000000 | 1104 | 217.866000 |
| 1105 | 0.143590 | 1105 | 0.000000 |
| 1106 | 0.179487 | 1106 | 0.000000 |
| 1107 | 0.251282 | 1107 | 0.000000 |
| 1108 | 0.179487 | 1108 | 0.000000 |
| 1109 | 0.287180 | 1109 | 0.000000 |
| 1110 | 0.682051 | 1110 | 0.000000 |
| 1111 | 0.107692 | 1111 | 0.000000 |
| 1112 | 0.538462 | 1112 | 0.000000 |
| 1113 | 0.215385 | 1113 | 0.000000 |
| 1114 | 0.287180 | 1114 | 0.000000 |
| 1115 | 0.430769 | 1115 | 0.000000 |
| 1116 | 0.789744 | 1116 | 0.000000 |
| 1117 | 0.358974 | 1117 | 0.000000 |
| 1118 | 0.143590 | 1118 | 0.000000 |
| 1119 | 0.000000 | 1119 | 2594.074500 |
| 1120 | 0.179487 | 1120 | 0.000000 |
| 1121 | 0.000000 | 1121 | 50.778000 |
| 1122 | 0.000000 | 1122 | 350.616000 |
| 1123 | 0.000000 | 1123 | 101.046000 |
| 1124 | 0.000000 | 1124 | 38.034000 |
| 1125 | -0.000000 | 1125 | 0.000000 |
| 1126 | 0.000000 | 1126 | 96.444000 |
| 1127 | 0.502564 | 1127 | 0.000000 |
| 1128 | 0.000000 | 1128 | 275.214000 |
| 1129 | 0.000000 | 1129 | 123.702000 |
| 1130 | 19.633339 | 1130 | 0.000000 |
| 1131 | 0.000000 | 1131 | 75.563500 |
| 1132 | 0.000000 | 1132 | 112.020000 |
| 1133 | 0.000000 | 1133 | 24.936000 |
| 1134 | 0.000000 | 1134 | 51.840000 |
| 1135 | 0.000000 | 1135 | 87.948000 |
| 1136 | 11.780010 | 1136 | 0.000000 |
| 1137 | 0.000000 | 1137 | 110.963500 |
| 1138 | 0.000000 | 1138 | 58.212000 |
| 1139 | 0.000000 | 1139 | 15.732000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 1140 | 0.000000 | 1140 | 57.504000 |
| 1141 | 0.000000 | 1141 | 281.586000 |
| 1142 | -0.000000 | 1142 | 0.000000 |
| 1143 | 0.000000 | 1143 | 35.915500 |
| 1144 | 0.000000 | 1144 | 42.990000 |
| 1145 | 0.000000 | 1145 | 8.298000 |
| 1146 | 0.000000 | 1146 | 162.288000 |
| 1147 | 0.000000 | 1147 | 421.770000 |
| 1148 | 0.000000 | 1148 | 243.000000 |
| 1149 | 0.000000 | 1149 | 178.223500 |
| 1150 | 0.000000 | 1150 | 227.778000 |
| 1151 | 0.000000 | 1151 | 68.478000 |
| 1152 | 0.000000 | 1152 | 130.974500 |
| 1153 | 0.000000 | 1153 | 361.074500 |
| 1154 | 0.000000 | 1154 | 192.216500 |
| 1155 | 0.000000 | 1155 | 35.592500 |
| 1156 | 0.000000 | 1156 | 191.154500 |
| 1157 | 0.000000 | 1157 | 165.828000 |
| 1158 | 0.000000 | 1158 | 78.582500 |
| 1159 | 0.392667 | 1159 | 0.000000 |
| 1160 | 2.094220 | 1160 | 0.000000 |
| 1161 | 1.570670 | 1161 | 0.000000 |
| 1162 | 0.523556 | 1162 | 0.000000 |
| 1163 | 1.439780 | 1163 | 0.000000 |
| 1164 | 1.178000 | 1164 | 0.000000 |
| 1165 | 0.785333 | 1165 | 0.000000 |
| 1166 | 0.785333 | 1166 | 0.000000 |
| 1167 | 0.000000 | 1167 | 56.640000 |
| 1168 | 0.000000 | 1168 | 39.450000 |
| 1169 | 0.000000 | 1169 | 131.490000 |
| 1170 | 0.000000 | 1170 | 71.310000 |
| 1171 | 2.356000 | 1171 | 0.000000 |
| 1172 | 0.000000 | 1172 | 37.685500 |
| 1173 | 0.000000 | 1173 | 39.096000 |
| 1174 | 0.000000 | 1174 | 11.484000 |
| 1175 | 0.000000 | 1175 | 55.026000 |
| 1176 | 0.000000 | 1176 | 241.230000 |
| 1177 | 0.000000 | 1177 | 135.738000 |
| 1178 | 2.879560 | 1178 | 0.000000 |
| 1179 | 0.000000 | 1179 | 76.625500 |
| 1180 | 0.000000 | 1180 | 85.824000 |
| 1181 | 0.000000 | 1181 | 18.918000 |
| 1182 | 0.000000 | 1182 | 96.642000 |
| 1183 | 2.748670 | 1183 | 0.000000 |
| 1184 | 1.308890 | 1184 | 0.000000 |
| 1185 | 1.178000 | 1185 | 0.000000 |
| 1186 | 1.701560 | 1186 | 0.000000 |
| 1187 | 0.000000 | 1187 | 130.074000 |
| 1188 | 0.000000 | 1188 | 260.700000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 1189 | 0.000000 | 1189 | 201.582000 |
| 1190 | 3.795780 | 1190 | 0.000000 |
| 1191 | 0.000000 | 1191 | 146.717500 |
| 1192 | 0.000000 | 1192 | 47.946000 |
| 1193 | 0.916222 | 1193 | 0.000000 |
| 1194 | 1.178000 | 1194 | 0.000000 |
| 1195 | 1.701560 | 1195 | 0.000000 |
| 1196 | 0.392667 | 1196 | 0.000000 |
| 1197 | 0.523556 | 1197 | 0.000000 |
| 1198 | 0.000000 | 1198 | 85.308500 |
| 1199 | 0.000000 | 1199 | 343.728500 |
| 1200 | 0.000000 | 1200 | 160.356500 |
| 1201 | 0.000000 | 1201 | 3.024500 |
| 1202 | 1.963330 | 1202 | 0.000000 |
| 1203 | 0.000000 | 1203 | 132.036500 |
| 1204 | 0.000000 | 1204 | 49.362000 |
| 1205 | 0.000000 | 1205 | 36.456500 |
| 1206 | 1.047110 | 1206 | 0.000000 |
| 1207 | 3.141330 | 1207 | 0.000000 |
| 1208 | 0.916222 | 1208 | 0.000000 |
| 1209 | 2.094220 | 1209 | 0.000000 |
| 1210 | 1.701560 | 1210 | 0.000000 |
| 1211 | 2.356000 | 1211 | 0.000000 |
| 1212 | 1.178000 | 1212 | 0.000000 |
| 1213 | 0.654444 | 1213 | 0.000000 |
| 1214 | 0.000000 | 1214 | 25.644000 |
| 1215 | 0.000000 | 1215 | 257.160000 |
| 1216 | 0.000000 | 1216 | 105.294000 |
| 1217 | 2.617780 | 1217 | 0.000000 |
| 1218 | 0.000000 | 1218 | 22.109500 |
| 1219 | 0.000000 | 1219 | 102.108000 |
| 1220 | 0.000000 | 1220 | 29.538000 |
| 1221 | 0.000000 | 1221 | 39.804000 |
| 1222 | 0.000000 | 1222 | 221.052000 |
| 1223 | 0.000000 | 1223 | 81.576000 |
| 1224 | 5.497330 | 1224 | 0.000000 |
| 1225 | 0.000000 | 1225 | 54.677500 |
| 1226 | 0.000000 | 1226 | 45.822000 |
| 1227 | 0.000000 | 1227 | 80.321500 |
| 1228 | 0.000000 | 1228 | 22.812000 |
| 1229 | 0.654444 | 1229 | 0.000000 |
| 1230 | 1.963330 | 1230 | 0.000000 |
| 1231 | 0.000000 | 1231 | 28.320000 |
| 1232 | 1.570670 | 1232 | 0.000000 |
| 1233 | 0.392667 | 1233 | 0.000000 |
| 1234 | 2.094220 | 1234 | 0.000000 |
| 1235 | 0.000000 | 1235 | 19.470000 |
| 1236 | 1.963330 | 1236 | 0.000000 |
| 1237 | 0.000000 | 1237 | 58.212000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 1238 | 0.000000 | 1238 | 294.684000 |
| 1239 | 0.000000 | 1239 | 110.604000 |
| 1240 | 2.879560 | 1240 | 0.000000 |
| 1241 | 0.000000 | 1241 | 44.765500 |
| 1242 | 0.000000 | 1242 | 105.294000 |
| 1243 | 0.000000 | 1243 | 79.259500 |
| 1244 | 0.000000 | 1244 | 52.548000 |
| 1245 | 0.000000 | 1245 | 29.184000 |
| 1246 | 0.000000 | 1246 | 182.112000 |
| 1247 | 0.000000 | 1247 | 76.974000 |
| 1248 | 2.748670 | 1248 | 0.000000 |
| 1249 | 0.000000 | 1249 | 59.279500 |
| 1250 | 0.000000 | 1250 | 73.788000 |
| 1251 | 0.000000 | 1251 | 48.300000 |
| 1252 | 1.439780 | 1252 | 0.000000 |
| 1253 | 1.178000 | 1253 | 0.000000 |
| 1254 | 0.000000 | 1254 | 98.052500 |
| 1255 | 1.047110 | 1255 | 0.000000 |
| 1256 | 1.701560 | 1256 | 0.000000 |
| 1257 | 0.000000 | 1257 | 109.380500 |
| 1258 | 2.356000 | 1258 | 0.000000 |
| 1259 | 0.000000 | 1259 | 26.352000 |
| 1260 | 0.000000 | 1260 | 235.920000 |
| 1261 | 0.000000 | 1261 | 72.018000 |
| 1262 | 9.424006 | 1262 | 0.000000 |
| 1263 | 0.000000 | 1263 | 55.739500 |
| 1264 | 0.000000 | 1264 | 23.520000 |
| 1265 | 0.000000 | 1265 | 97.344500 |
| 1266 | 0.000000 | 1266 | 338.418500 |
| 1267 | 0.000000 | 1267 | 141.594500 |
| 1268 | 0.000000 | 1268 | 15.414500 |
| 1269 | 6.282670 | 1269 | 0.000000 |
| 1270 | 0.000000 | 1270 | 137.700500 |
| 1271 | 0.000000 | 1271 | 34.140000 |
| 1272 | 0.000000 | 1272 | 60.174500 |
| 1273 | 0.392667 | 1273 | 0.000000 |
| 1274 | 0.000000 | 1274 | 95.028000 |
| 1275 | 0.000000 | 1275 | 309.198000 |
| 1276 | 0.000000 | 1276 | 152.376000 |
| 1277 | 2.094220 | 1277 | 0.000000 |
| 1278 | 0.000000 | 1278 | 15.737500 |
| 1279 | 0.000000 | 1279 | 139.632000 |
| 1280 | 0.000000 | 1280 | 46.691500 |
| 1281 | 0.000000 | 1281 | 47.946000 |
| 1282 | 0.000000 | 1282 | 125.310500 |
| 1283 | 0.000000 | 1283 | 335.232500 |
| 1284 | 0.000000 | 1284 | 151.506500 |
| 1285 | 0.000000 | 1285 | 15.768500 |
| 1286 | 2.879560 | 1286 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 1287 | 0.000000 | 1287 | 147.612500 |
| 1288 | 0.000000 | 1288 | 42.636000 |
| 1289 | 0.000000 | 1289 | 60.882500 |
| 1290 | 0.000000 | 1290 | 68.316500 |
| 1291 | 1.308890 | 1291 | 0.000000 |
| 1292 | 0.000000 | 1292 | 132.036500 |
| 1293 | 0.000000 | 1293 | 355.410500 |
| 1294 | 0.000000 | 1294 | 182.658500 |
| 1295 | 0.000000 | 1295 | 48.690500 |
| 1296 | 4.712000 | 1296 | 0.000000 |
| 1297 | 0.000000 | 1297 | 183.720500 |
| 1298 | 0.000000 | 1298 | 64.230000 |
| 1299 | 0.000000 | 1299 | 65.130500 |
| 1300 | 0.000000 | 1300 | 87.240000 |
| 1301 | 0.000000 | 1301 | 333.624000 |
| 1302 | 0.000000 | 1302 | 154.854000 |
| 1303 | 3.534000 | 1303 | 0.000000 |
| 1304 | 0.000000 | 1304 | 35.207500 |
| 1305 | 0.000000 | 1305 | 159.810000 |
| 1306 | 0.000000 | 1306 | 63.683500 |
| 1307 | 0.000000 | 1307 | 51.840000 |
| 1308 | 0.000000 | 1308 | 82.638000 |
| 1309 | 0.000000 | 1309 | 327.960000 |
| 1310 | 0.000000 | 1310 | 146.712000 |
| 1311 | 6.413550 | 1311 | 0.000000 |
| 1312 | 0.000000 | 1312 | 2.639500 |
| 1313 | 0.000000 | 1313 | 144.942000 |
| 1314 | 0.000000 | 1314 | 33.593500 |
| 1315 | 0.000000 | 1315 | 43.344000 |
| 1316 | 0.000000 | 1316 | 75.750500 |
| 1317 | 1.308890 | 1317 | 0.000000 |
| 1318 | 0.000000 | 1318 | 85.308500 |
| 1319 | 0.000000 | 1319 | 344.082500 |
| 1320 | 0.000000 | 1320 | 150.090500 |
| 1321 | 0.000000 | 1321 | 33.114500 |
| 1322 | -0.000000 | 1322 | 0.000000 |
| 1323 | 0.000000 | 1323 | 167.436500 |
| 1324 | 0.000000 | 1324 | 50.616500 |
| 1325 | 0.523556 | 1325 | 0.000000 |
| 1326 | 0.654444 | 1326 | 0.000000 |
| 1327 | 0.654444 | 1327 | 0.000000 |
| 1328 | 0.261778 | 1328 | 0.000000 |
| 1329 | 0.392667 | 1329 | 0.000000 |
| 1330 | 2.748670 | 1330 | 0.000000 |
| 1331 | 0.392667 | 1331 | 0.000000 |
| 1332 | 0.523556 | 1332 | 0.000000 |
| 1333 | 0.392667 | 1333 | 0.000000 |
| 1334 | 1.308890 | 1334 | 0.000000 |
| 1335 | 0.261778 | 1335 | 0.000000 |

Continua na próxima página

| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 1336 | 1.570670 | 1336 | 0.000000 |
| 1337 | 2.225110 | 1337 | 0.000000 |
| 1338 | 0.261778 | 1338 | 0.000000 |
| 1339 | 0.523556 | 1339 | 0.000000 |
| 1340 | 0.392667 | 1340 | 0.000000 |
| 1341 | 0.000000 | 1341 | 142.464000 |
| 1342 | 0.000000 | 1342 | 406.902000 |
| 1343 | 0.000000 | 1343 | 232.380000 |
| 1344 | 2.748670 | 1344 | 0.000000 |
| 1345 | 0.000000 | 1345 | 167.249500 |
| 1346 | 0.000000 | 1346 | 207.954000 |
| 1347 | 0.654444 | 1347 | 0.000000 |
| 1348 | 0.000000 | 1348 | 279.420000 |
| 1349 | 0.000000 | 1349 | 125.340000 |
| 1350 | 22.215486 | 1350 | 0.000000 |
| 1351 | 0.000000 | 1351 | 54.360000 |
| 1352 | 0.000000 | 1352 | 113.460000 |
| 1353 | 0.000000 | 1353 | 24.900000 |
| 1354 | 0.000000 | 1354 | 52.260000 |
| 1355 | 0.000000 | 1355 | 88.980000 |
| 1356 | 9.221521 | 1356 | 0.000000 |
| 1357 | 0.000000 | 1357 | 90.360000 |
| 1358 | 0.000000 | 1358 | 58.740000 |
| 1359 | 0.000000 | 1359 | 15.540000 |
| 1360 | 0.000000 | 1360 | 58.020000 |
| 1361 | 0.000000 | 1361 | 285.900000 |
| 1362 | -0.000000 | 1362 | 0.000000 |
| 1363 | 0.000000 | 1363 | 14.040000 |
| 1364 | 0.000000 | 1364 | 43.260000 |
| 1365 | 0.000000 | 1365 | 7.980000 |
| 1366 | 0.000000 | 1366 | 164.580000 |
| 1367 | 0.000000 | 1367 | 428.460000 |
| 1368 | 0.000000 | 1368 | 246.660000 |
| 1369 | 0.000000 | 1369 | 158.760000 |
| 1370 | 0.000000 | 1370 | 231.180000 |
| 1371 | 0.000000 | 1371 | 69.180000 |
| 1372 | 0.000000 | 1372 | 155.220000 |
| 1373 | 0.000000 | 1373 | 389.220000 |
| 1374 | 0.000000 | 1374 | 217.500000 |
| 1375 | 0.000000 | 1375 | 58.680000 |
| 1376 | 0.000000 | 1376 | 216.420000 |
| 1377 | 0.000000 | 1377 | 168.180000 |
| 1378 | 0.000000 | 1378 | 101.940000 |
| 1379 | 0.419160 | 1379 | 0.000000 |
| 1380 | 2.654680 | 1380 | 0.000000 |
| 1381 | 1.536920 | 1381 | 0.000000 |
| 1382 | 0.419160 | 1382 | 0.000000 |
| 1383 | 1.676640 | 1383 | 0.000000 |
| 1384 | 1.257480 | 1384 | 0.000000 |

Continua na próxima página

| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 1385 | 0.978041 | 1385 | 0.000000 |
| 1386 | 0.978041 | 1386 | 0.000000 |
| 1387 | 0.000000 | 1387 | 57.600000 |
| 1388 | 0.000000 | 1388 | 39.660000 |
| 1389 | 0.000000 | 1389 | 133.260000 |
| 1390 | 0.000000 | 1390 | 72.060000 |
| 1391 | 3.073840 | 1391 | 0.000000 |
| 1392 | 0.000000 | 1392 | 15.840000 |
| 1393 | 0.000000 | 1393 | 39.300000 |
| 1394 | 0.000000 | 1394 | 11.220000 |
| 1395 | 0.000000 | 1395 | 55.500000 |
| 1396 | 0.000000 | 1396 | 244.860000 |
| 1397 | 0.000000 | 1397 | 137.580000 |
| 1398 | 3.073840 | 1398 | 0.000000 |
| 1399 | 0.000000 | 1399 | 55.440000 |
| 1400 | 0.000000 | 1400 | 86.820000 |
| 1401 | 0.000000 | 1401 | 18.780000 |
| 1402 | 0.000000 | 1402 | 98.280000 |
| 1403 | 2.794400 | 1403 | 0.000000 |
| 1404 | 1.257480 | 1404 | 0.000000 |
| 1405 | 1.397200 | 1405 | 0.000000 |
| 1406 | 2.235520 | 1406 | 0.000000 |
| 1407 | 0.000000 | 1407 | 131.820000 |
| 1408 | 0.000000 | 1408 | 264.660000 |
| 1409 | 0.000000 | 1409 | 204.540000 |
| 1410 | 4.051880 | 1410 | 0.000000 |
| 1411 | 0.000000 | 1411 | 126.720000 |
| 1412 | 0.000000 | 1412 | 48.300000 |
| 1413 | 0.838321 | 1413 | 0.000000 |
| 1414 | 1.257480 | 1414 | 0.000000 |
| 1415 | 2.375240 | 1415 | 0.000000 |
| 1416 | 0.279440 | 1416 | 0.000000 |
| 1417 | 0.558881 | 1417 | 0.000000 |
| 1418 | 0.000000 | 1418 | 108.780000 |
| 1419 | 0.000000 | 1419 | 371.580000 |
| 1420 | 0.000000 | 1420 | 185.100000 |
| 1421 | 0.000000 | 1421 | 25.560000 |
| 1422 | 2.235520 | 1422 | 0.000000 |
| 1423 | 0.000000 | 1423 | 156.300000 |
| 1424 | 0.000000 | 1424 | 49.740000 |
| 1425 | 0.000000 | 1425 | 59.100000 |
| 1426 | 0.698601 | 1426 | 0.000000 |
| 1427 | 3.353280 | 1427 | 0.000000 |
| 1428 | 1.257480 | 1428 | 0.000000 |
| 1429 | 2.095800 | 1429 | 0.000000 |
| 1430 | 1.676640 | 1430 | 0.000000 |
| 1431 | 2.934120 | 1431 | 0.000000 |
| 1432 | 1.257480 | 1432 | 0.000000 |
| 1433 | 0.978041 | 1433 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 1434 | 0.000000 | 1434 | 25.620000 |
| 1435 | 0.000000 | 1435 | 261.060000 |
| 1436 | 0.000000 | 1436 | 106.620000 |
| 1437 | 3.532504 | 1437 | 0.000000 |
| 1438 | 0.239936 | 1438 | 0.000000 |
| 1439 | 0.000000 | 1439 | 103.380000 |
| 1440 | 0.000000 | 1440 | 29.580000 |
| 1441 | 0.000000 | 1441 | 40.020000 |
| 1442 | 0.000000 | 1442 | 224.340000 |
| 1443 | 0.000000 | 1443 | 82.500000 |
| 1444 | 6.287410 | 1444 | 0.000000 |
| 1445 | 0.000000 | 1445 | 33.120000 |
| 1446 | 0.000000 | 1446 | 46.140000 |
| 1447 | 0.000000 | 1447 | 58.740000 |
| 1448 | 0.000000 | 1448 | 22.740000 |
| 1449 | 0.698601 | 1449 | 0.000000 |
| 1450 | 1.816360 | 1450 | 0.000000 |
| 1451 | 0.000000 | 1451 | 28.800000 |
| 1452 | 2.934120 | 1452 | 0.000000 |
| 1453 | 0.558881 | 1453 | 0.000000 |
| 1454 | 2.654680 | 1454 | 0.000000 |
| 1455 | 0.000000 | 1455 | 19.800000 |
| 1456 | 2.235520 | 1456 | 0.000000 |
| 1457 | 0.000000 | 1457 | 58.740000 |
| 1458 | 0.000000 | 1458 | 299.220000 |
| 1459 | 0.000000 | 1459 | 112.020000 |
| 1460 | 3.912160 | 1460 | 0.000000 |
| 1461 | 0.000000 | 1461 | 23.040000 |
| 1462 | 0.000000 | 1462 | 106.620000 |
| 1463 | 0.000000 | 1463 | 57.660000 |
| 1464 | 0.000000 | 1464 | 52.980000 |
| 1465 | 0.000000 | 1465 | 29.220000 |
| 1466 | 0.000000 | 1466 | 184.740000 |
| 1467 | 0.000000 | 1467 | 77.820000 |
| 1468 | 3.073840 | 1468 | 0.000000 |
| 1469 | 0.000000 | 1469 | 37.800000 |
| 1470 | 0.000000 | 1470 | 74.580000 |
| 1471 | 0.000000 | 1471 | 48.660000 |
| 1472 | 0.978041 | 1472 | 0.000000 |
| 1473 | 1.257480 | 1473 | 0.000000 |
| 1474 | 0.000000 | 1474 | 121.740000 |
| 1475 | 1.536920 | 1475 | 0.000000 |
| 1476 | 2.514960 | 1476 | 0.000000 |
| 1477 | 0.000000 | 1477 | 133.260000 |
| 1478 | 1.536920 | 1478 | 0.000000 |
| 1479 | 0.000000 | 1479 | 26.340000 |
| 1480 | 0.000000 | 1480 | 239.460000 |
| 1481 | 0.000000 | 1481 | 72.780000 |
| 1482 | 11.596763 | 1482 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 1483 | 0.000000 | 1483 | 34.200000 |
| 1484 | 0.000000 | 1484 | 23.460000 |
| 1485 | 0.000000 | 1485 | 121.020000 |
| 1486 | 0.000000 | 1486 | 366.180000 |
| 1487 | 0.000000 | 1487 | 166.020000 |
| 1488 | 0.000000 | 1488 | 38.160000 |
| 1489 | 8.942090 | 1489 | 0.000000 |
| 1490 | 0.000000 | 1490 | 162.060000 |
| 1491 | 0.000000 | 1491 | 34.260000 |
| 1492 | 0.000000 | 1492 | 83.220000 |
| 1493 | 0.838321 | 1493 | 0.000000 |
| 1494 | 0.000000 | 1494 | 102.660000 |
| 1495 | 0.000000 | 1495 | 320.460000 |
| 1496 | 0.000000 | 1496 | 160.980000 |
| 1497 | 0.000000 | 1497 | 6.480000 |
| 1498 | 3.912160 | 1498 | 0.000000 |
| 1499 | 0.000000 | 1499 | 148.020000 |
| 1500 | 0.000000 | 1500 | 31.020000 |
| 1501 | 0.000000 | 1501 | 54.780000 |
| 1502 | 0.000000 | 1502 | 149.460000 |
| 1503 | 0.000000 | 1503 | 362.940000 |
| 1504 | 0.000000 | 1504 | 176.100000 |
| 1505 | 0.000000 | 1505 | 38.520000 |
| 1506 | 4.191600 | 1506 | 0.000000 |
| 1507 | 0.000000 | 1507 | 172.140000 |
| 1508 | 0.000000 | 1508 | 42.900000 |
| 1509 | 0.000000 | 1509 | 83.940000 |
| 1510 | 0.000000 | 1510 | 91.500000 |
| 1511 | 1.117760 | 1511 | 0.000000 |
| 1512 | 0.000000 | 1512 | 156.300000 |
| 1513 | 0.000000 | 1513 | 383.460000 |
| 1514 | 0.000000 | 1514 | 207.780000 |
| 1515 | 0.000000 | 1515 | 72.000000 |
| 1516 | 6.566850 | 1516 | 0.000000 |
| 1517 | 0.000000 | 1517 | 208.860000 |
| 1518 | 0.000000 | 1518 | 64.860000 |
| 1519 | 0.000000 | 1519 | 88.260000 |
| 1520 | 0.000000 | 1520 | 88.260000 |
| 1521 | 0.000000 | 1521 | 338.820000 |
| 1522 | 0.000000 | 1522 | 157.020000 |
| 1523 | 1.536920 | 1523 | 0.000000 |
| 1524 | 0.000000 | 1524 | 13.320000 |
| 1525 | 0.000000 | 1525 | 162.060000 |
| 1526 | 0.000000 | 1526 | 41.820000 |
| 1527 | 0.000000 | 1527 | 52.260000 |
| 1528 | 0.000000 | 1528 | 103.380000 |
| 1529 | 0.000000 | 1529 | 352.860000 |
| 1530 | 0.000000 | 1530 | 168.540000 |
| 1531 | 0.000000 | 1531 | 19.800000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|------------|
| 1532 | 5.169650 | 1532 | 0.000000 |
| 1533 | 0.000000 | 1533 | 166.740000 |
| 1534 | 0.000000 | 1534 | 31.020000 |
| 1535 | 0.000000 | 1535 | 63.420000 |
| 1536 | 0.000000 | 1536 | 99.060000 |
| 1537 | 1.816360 | 1537 | 0.000000 |
| 1538 | 0.000000 | 1538 | 108.780000 |
| 1539 | 0.000000 | 1539 | 371.940000 |
| 1540 | 0.000000 | 1540 | 174.660000 |
| 1541 | 0.000000 | 1541 | 56.160000 |
| 1542 | -0.000000 | 1542 | 0.000000 |
| 1543 | 0.000000 | 1543 | 192.300000 |
| 1544 | 0.000000 | 1544 | 73.500000 |
| 1545 | 0.419160 | 1545 | 0.000000 |
| 1546 | 0.279440 | 1546 | 0.000000 |
| 1547 | 0.279440 | 1547 | 0.000000 |
| 1548 | 0.279440 | 1548 | 0.000000 |
| 1549 | 0.419160 | 1549 | 0.000000 |
| 1550 | 2.654680 | 1550 | 0.000000 |
| 1551 | 0.139720 | 1551 | 0.000000 |
| 1552 | 0.558881 | 1552 | 0.000000 |
| 1553 | 0.279440 | 1553 | 0.000000 |
| 1554 | 0.279440 | 1554 | 0.000000 |
| 1555 | 0.139720 | 1555 | 0.000000 |
| 1556 | 1.397200 | 1556 | 0.000000 |
| 1557 | 1.397200 | 1557 | 0.000000 |
| 1558 | 0.139720 | 1558 | 0.000000 |
| 1559 | 0.419160 | 1559 | 0.000000 |
| 1560 | 0.419160 | 1560 | 0.000000 |
| 1561 | 0.000000 | 1561 | 144.420000 |
| 1562 | 0.000000 | 1562 | 413.340000 |
| 1563 | 0.000000 | 1563 | 235.860000 |
| 1564 | 2.794400 | 1564 | 0.000000 |
| 1565 | 0.000000 | 1565 | 147.600000 |
| 1566 | 0.000000 | 1566 | 211.020000 |
| 1567 | 0.698601 | 1567 | 0.000000 |
| 1568 | 0.000000 | 1568 | 275.214000 |
| 1569 | 0.000000 | 1569 | 123.702000 |
| 1570 | -0.000000 | 1570 | 0.000000 |
| 1571 | 0.000000 | 1571 | 40.601334 |
| 1572 | 0.000000 | 1572 | 112.020000 |
| 1573 | 0.000000 | 1573 | 24.936000 |
| 1574 | 0.000000 | 1574 | 51.840000 |
| 1575 | 0.000000 | 1575 | 87.948000 |
| 1576 | -0.000000 | 1576 | 0.000000 |
| 1577 | 0.000000 | 1577 | 76.001334 |
| 1578 | 0.000000 | 1578 | 58.212000 |
| 1579 | 0.000000 | 1579 | 15.732000 |
| 1580 | 0.000000 | 1580 | 57.504000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1581 | 0.000000 | 1581 | 281.586000 |
| 1582 | -0.000000 | 1582 | 0.000000 |
| 1583 | 0.000000 | 1583 | 0.953334 |
| 1584 | 0.000000 | 1584 | 42.990000 |
| 1585 | 0.000000 | 1585 | 8.298000 |
| 1586 | 0.000000 | 1586 | 162.288000 |
| 1587 | 0.000000 | 1587 | 421.770000 |
| 1588 | 0.000000 | 1588 | 243.000000 |
| 1589 | 0.000000 | 1589 | 143.261334 |
| 1590 | 0.000000 | 1590 | 227.778000 |
| 1591 | 0.000000 | 1591 | 68.478000 |
| 1592 | 0.000000 | 1592 | 192.996666 |
| 1593 | 0.000000 | 1593 | 423.096666 |
| 1594 | 0.000000 | 1594 | 254.238666 |
| 1595 | 0.000000 | 1595 | 97.614666 |
| 1596 | 0.000000 | 1596 | 253.176666 |
| 1597 | 0.000000 | 1597 | 192.888000 |
| 1598 | 0.000000 | 1598 | 140.604666 |
| 1599 | 0.000000 | 1599 | 2244.638000 |
| 1600 | 0.000000 | 1600 | 2181.626000 |
| 1601 | 0.000000 | 1601 | 2197.556000 |
| 1602 | 0.000000 | 1602 | 2223.044000 |
| 1603 | 0.000000 | 1603 | 2294.198000 |
| 1604 | 0.000000 | 1604 | 2211.716000 |
| 1605 | 0.000000 | 1605 | 2205.344000 |
| 1606 | -0.000000 | 1606 | 0.000000 |
| 1607 | 0.000000 | 1607 | 56.640000 |
| 1608 | 0.000000 | 1608 | 2281.454000 |
| 1609 | 0.000000 | 1609 | 2373.494000 |
| 1610 | 0.000000 | 1610 | 2313.314000 |
| 1611 | 0.000000 | 1611 | 2242.004000 |
| 1612 | 0.000000 | 1612 | 2244.727334 |
| 1613 | 0.000000 | 1613 | 2281.100000 |
| 1614 | 0.000000 | 1614 | 2253.488000 |
| 1615 | 0.000000 | 1615 | 2230.124000 |
| 1616 | 0.000000 | 1616 | 2416.328000 |
| 1617 | 0.000000 | 1617 | 2310.836000 |
| 1618 | 0.000000 | 1618 | 2175.098000 |
| 1619 | 0.000000 | 1619 | 2216.761334 |
| 1620 | 0.000000 | 1620 | 2260.922000 |
| 1621 | 0.000000 | 1621 | 2194.016000 |
| 1622 | 0.000000 | 1622 | 96.642000 |
| 1623 | -0.000000 | 1623 | 0.000000 |
| 1624 | 0.000000 | 1624 | 2128.016000 |
| 1625 | 0.000000 | 1625 | 2129.786000 |
| 1626 | 0.000000 | 1626 | 2113.502000 |
| 1627 | 0.000000 | 1627 | 2316.854000 |
| 1628 | 0.000000 | 1628 | 2447.480000 |
| 1629 | 0.000000 | 1629 | 2388.362000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1630 | 0.000000 | 1630 | 2186.780000 |
| 1631 | 0.000000 | 1631 | 2298.535334 |
| 1632 | 0.000000 | 1632 | 2234.726000 |
| 1633 | 0.000000 | 1633 | 2152.796000 |
| 1634 | 0.000000 | 1634 | 2132.618000 |
| 1635 | 0.000000 | 1635 | 2468.366000 |
| 1636 | 0.000000 | 1636 | 2169.080000 |
| 1637 | 0.000000 | 1637 | 2309.420000 |
| 1638 | 0.000000 | 1638 | 120.270666 |
| 1639 | 0.000000 | 1639 | 378.690666 |
| 1640 | 0.000000 | 1640 | 195.318666 |
| 1641 | 0.000000 | 1641 | 37.986666 |
| 1642 | 0.844995 | 1642 | 0.000000 |
| 1643 | 0.000000 | 1643 | 166.998666 |
| 1644 | 0.000000 | 1644 | 49.362000 |
| 1645 | 0.000000 | 1645 | 71.418666 |
| 1646 | 0.000000 | 1646 | 2143.946000 |
| 1647 | 0.027554 | 1647 | 0.000000 |
| 1648 | 0.000000 | 1648 | 2213.486000 |
| 1649 | 0.000000 | 1649 | 2129.078000 |
| 1650 | 0.000000 | 1650 | 2458.808000 |
| 1651 | 0.000000 | 1651 | 2148.194000 |
| 1652 | 0.000000 | 1652 | 2116.688000 |
| 1653 | 0.000000 | 1653 | 2253.488000 |
| 1654 | 0.000000 | 1654 | 2206.760000 |
| 1655 | 0.000000 | 1655 | 2438.276000 |
| 1656 | 0.000000 | 1656 | 2286.410000 |
| 1657 | 0.000000 | 1657 | 2181.116000 |
| 1658 | 0.000000 | 1658 | 2168.263334 |
| 1659 | 0.000000 | 1659 | 2283.224000 |
| 1660 | 0.000000 | 1660 | 2210.654000 |
| 1661 | 0.000000 | 1661 | 2222.336000 |
| 1662 | 0.000000 | 1662 | 2403.584000 |
| 1663 | 0.000000 | 1663 | 2264.108000 |
| 1664 | 0.000000 | 1664 | 2182.532000 |
| 1665 | 0.000000 | 1665 | 2202.247334 |
| 1666 | 0.000000 | 1666 | 2228.354000 |
| 1667 | 0.000000 | 1667 | 2227.891334 |
| 1668 | 0.000000 | 1668 | 2205.344000 |
| 1669 | 0.000000 | 1669 | 2220.212000 |
| 1670 | -0.000000 | 1670 | 0.000000 |
| 1671 | 0.000000 | 1671 | 28.320000 |
| 1672 | 0.000000 | 1672 | 2249.948000 |
| 1673 | 0.000000 | 1673 | 2206.052000 |
| 1674 | -0.000000 | 1674 | 0.000000 |
| 1675 | 0.000000 | 1675 | 19.470000 |
| 1676 | 0.000000 | 1676 | 2246.054000 |
| 1677 | 0.000000 | 1677 | 58.212000 |
| 1678 | 0.000000 | 1678 | 294.684000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1679 | 0.000000 | 1679 | 110.604000 |
| 1680 | 0.128586 | 1680 | 0.000000 |
| 1681 | 0.000000 | 1681 | 9.803334 |
| 1682 | 0.000000 | 1682 | 105.294000 |
| 1683 | 0.000000 | 1683 | 44.297334 |
| 1684 | 0.000000 | 1684 | 52.548000 |
| 1685 | 0.000000 | 1685 | 2260.922000 |
| 1686 | 0.000000 | 1686 | 2413.850000 |
| 1687 | 0.000000 | 1687 | 2308.712000 |
| 1688 | 0.000000 | 1688 | 2231.738000 |
| 1689 | 0.000000 | 1689 | 2256.055334 |
| 1690 | 0.000000 | 1690 | 2305.526000 |
| 1691 | 0.000000 | 1691 | 2280.038000 |
| 1692 | 0.000000 | 1692 | 2213.132000 |
| 1693 | 0.000000 | 1693 | 2207.822000 |
| 1694 | 0.000000 | 1694 | 133.014666 |
| 1695 | 0.018370 | 1695 | 0.000000 |
| 1696 | 0.000000 | 1696 | 2259.506000 |
| 1697 | 0.000000 | 1697 | 144.342666 |
| 1698 | -0.000000 | 1698 | 0.000000 |
| 1699 | 0.000000 | 1699 | 26.352000 |
| 1700 | 0.000000 | 1700 | 235.920000 |
| 1701 | 0.000000 | 1701 | 72.018000 |
| 1702 | -0.000000 | 1702 | 0.000000 |
| 1703 | 0.000000 | 1703 | 20.777334 |
| 1704 | 0.000000 | 1704 | 23.520000 |
| 1705 | 0.000000 | 1705 | 132.306666 |
| 1706 | 0.000000 | 1706 | 373.380666 |
| 1707 | 0.000000 | 1707 | 176.556666 |
| 1708 | 0.000000 | 1708 | 50.376666 |
| 1709 | 2.746230 | 1709 | 0.000000 |
| 1710 | 0.000000 | 1710 | 172.662666 |
| 1711 | 0.000000 | 1711 | 34.140000 |
| 1712 | 0.000000 | 1712 | 95.136666 |
| 1713 | 0.000000 | 1713 | 2239.682000 |
| 1714 | 0.000000 | 1714 | 114.252666 |
| 1715 | 0.000000 | 1715 | 328.422666 |
| 1716 | 0.000000 | 1716 | 171.600666 |
| 1717 | 0.000000 | 1717 | 19.224666 |
| 1718 | 0.413313 | 1718 | 0.000000 |
| 1719 | 0.000000 | 1719 | 158.856666 |
| 1720 | 0.000000 | 1720 | 30.954000 |
| 1721 | 0.000000 | 1721 | 67.170666 |
| 1722 | 0.000000 | 1722 | 160.272666 |
| 1723 | 0.000000 | 1723 | 370.194666 |
| 1724 | 0.000000 | 1724 | 186.468666 |
| 1725 | 0.000000 | 1725 | 50.730666 |
| 1726 | 0.854180 | 1726 | 0.000000 |
| 1727 | 0.000000 | 1727 | 182.574666 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1728 | 0.000000 | 1728 | 42.636000 |
| 1729 | 0.000000 | 1729 | 95.844666 |
| 1730 | 0.000000 | 1730 | 103.278666 |
| 1731 | -0.000000 | 1731 | 0.000000 |
| 1732 | 0.000000 | 1732 | 166.998666 |
| 1733 | 0.000000 | 1733 | 390.372666 |
| 1734 | 0.000000 | 1734 | 217.620666 |
| 1735 | 0.000000 | 1735 | 83.652666 |
| 1736 | 3.049330 | 1736 | 0.000000 |
| 1737 | 0.000000 | 1737 | 218.682666 |
| 1738 | 0.000000 | 1738 | 64.230000 |
| 1739 | 0.000000 | 1739 | 100.092666 |
| 1740 | 0.000000 | 1740 | 87.240000 |
| 1741 | 0.000000 | 1741 | 333.624000 |
| 1742 | 0.000000 | 1742 | 154.854000 |
| 1743 | 0.679670 | 1743 | 0.000000 |
| 1744 | 0.000000 | 1744 | 0.245334 |
| 1745 | 0.000000 | 1745 | 159.810000 |
| 1746 | 0.000000 | 1746 | 28.721334 |
| 1747 | 0.000000 | 1747 | 51.840000 |
| 1748 | 0.000000 | 1748 | 114.960666 |
| 1749 | 0.000000 | 1749 | 360.282666 |
| 1750 | 0.000000 | 1750 | 179.034666 |
| 1751 | 0.000000 | 1751 | 32.322666 |
| 1752 | 0.128586 | 1752 | 0.000000 |
| 1753 | 0.000000 | 1753 | 177.264666 |
| 1754 | 0.000000 | 1754 | 30.954000 |
| 1755 | 0.000000 | 1755 | 75.666666 |
| 1756 | 0.000000 | 1756 | 110.712666 |
| 1757 | -0.000000 | 1757 | 0.000000 |
| 1758 | 0.000000 | 1758 | 120.270666 |
| 1759 | 0.000000 | 1759 | 379.044666 |
| 1760 | 0.000000 | 1760 | 185.052666 |
| 1761 | 0.000000 | 1761 | 68.076666 |
| 1762 | -0.000000 | 1762 | 0.000000 |
| 1763 | 0.000000 | 1763 | 202.398666 |
| 1764 | 0.000000 | 1764 | 85.578666 |
| 1765 | 0.000000 | 1765 | 2425.886000 |
| 1766 | 0.000000 | 1766 | 2408.894000 |
| 1767 | 0.000000 | 1767 | 2399.336000 |
| 1768 | 0.000000 | 1768 | 2458.808000 |
| 1769 | 0.000000 | 1769 | 2395.442000 |
| 1770 | 0.000000 | 1770 | 2352.962000 |
| 1771 | 0.000000 | 1771 | 2509.430000 |
| 1772 | 0.000000 | 1772 | 2322.518000 |
| 1773 | 0.000000 | 1773 | 2391.548000 |
| 1774 | 0.000000 | 1774 | 2513.324000 |
| 1775 | 0.000000 | 1775 | 2459.162000 |
| 1776 | 0.000000 | 1776 | 2328.182000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1777 | 0.000000 | 1777 | 2473.676000 |
| 1778 | 0.000000 | 1778 | 2412.434000 |
| 1779 | 0.000000 | 1779 | 2205.896000 |
| 1780 | 0.000000 | 1780 | 2433.674000 |
| 1781 | 0.000000 | 1781 | 142.464000 |
| 1782 | 0.000000 | 1782 | 406.902000 |
| 1783 | 0.000000 | 1783 | 232.380000 |
| 1784 | -0.000000 | 1784 | 0.000000 |
| 1785 | 0.000000 | 1785 | 132.287334 |
| 1786 | 0.000000 | 1786 | 207.954000 |
| 1787 | 0.000000 | 1787 | 2385.176000 |
| 1788 | -0.000000 | 1788 | 0.000000 |
| 1789 | 0.000000 | 1789 | 136.506000 |
| 1790 | 0.000000 | 1790 | 17.064713 |
| 1791 | 0.000000 | 1791 | 45.368000 |
| 1792 | 0.000000 | 1792 | 78.402000 |
| 1793 | 0.000000 | 1793 | 41.736713 |
| 1794 | 0.000000 | 1794 | 360.978000 |
| 1795 | 0.000000 | 1795 | 402.366000 |
| 1796 | 0.000000 | 1796 | 323.122713 |
| 1797 | 0.000000 | 1797 | 391.226000 |
| 1798 | 0.000000 | 1798 | 323.964000 |
| 1799 | 0.000000 | 1799 | 337.446713 |
| 1800 | 0.000000 | 1800 | 60.496000 |
| 1801 | 0.000000 | 1801 | 6.372000 |
| 1802 | 0.000000 | 1802 | 16.272713 |
| 1803 | -0.000000 | 1803 | 0.000000 |
| 1804 | -0.000000 | 1804 | 0.000000 |
| 1805 | 0.000000 | 1805 | 22.238713 |
| 1806 | 0.000000 | 1806 | 162.031287 |
| 1807 | 0.000000 | 1807 | 147.707287 |
| 1808 | 0.000000 | 1808 | 253.567287 |
| 1809 | 0.000000 | 1809 | 143.723287 |
| 1810 | 0.000000 | 1810 | 191.483287 |
| 1811 | 0.000000 | 1811 | 73.626000 |
| 1812 | 0.000000 | 1812 | 210.538000 |
| 1813 | 0.000000 | 1813 | 163.180000 |
| 1814 | 0.000000 | 1814 | 280.184000 |
| 1815 | 0.000000 | 1815 | 123.728713 |
| 1816 | 0.000000 | 1816 | 234.020000 |
| 1817 | 0.000000 | 1817 | 210.136000 |
| 1818 | 0.000000 | 1818 | 168.698713 |
| 1819 | 0.000000 | 1819 | 2412.783787 |
| 1820 | 0.000000 | 1820 | 2341.939787 |
| 1821 | 0.000000 | 1821 | 2359.849787 |
| 1822 | 0.000000 | 1822 | 2388.505787 |
| 1823 | 0.000000 | 1823 | 2424.325787 |
| 1824 | 0.000000 | 1824 | 2375.769787 |
| 1825 | 0.000000 | 1825 | 2368.605787 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1826 | -0.000000 | 1826 | 0.000000 |
| 1827 | 0.000000 | 1827 | 19.502000 |
| 1828 | 0.000000 | 1828 | 2454.175787 |
| 1829 | 0.000000 | 1829 | 2251.597787 |
| 1830 | 0.000000 | 1830 | 2490.787787 |
| 1831 | 0.000000 | 1831 | 2430.250500 |
| 1832 | 0.000000 | 1832 | 2415.967787 |
| 1833 | 0.000000 | 1833 | 2409.599787 |
| 1834 | 0.000000 | 1834 | 2439.798500 |
| 1835 | 0.000000 | 1835 | 2396.465787 |
| 1836 | 0.000000 | 1836 | 2299.755787 |
| 1837 | 0.000000 | 1837 | 2488.001787 |
| 1838 | 0.000000 | 1838 | 2355.028500 |
| 1839 | 0.000000 | 1839 | 2384.525787 |
| 1840 | 0.000000 | 1840 | 2386.913787 |
| 1841 | 0.000000 | 1841 | 2372.934500 |
| 1842 | 0.000000 | 1842 | 91.589287 |
| 1843 | -0.000000 | 1843 | 0.000000 |
| 1844 | 0.000000 | 1844 | 2302.094500 |
| 1845 | 0.000000 | 1845 | 2304.084500 |
| 1846 | 0.000000 | 1846 | 2285.776500 |
| 1847 | 0.000000 | 1847 | 2493.975787 |
| 1848 | 0.000000 | 1848 | 2334.779787 |
| 1849 | 0.000000 | 1849 | 2575.163787 |
| 1850 | 0.000000 | 1850 | 2368.162500 |
| 1851 | 0.000000 | 1851 | 2476.463787 |
| 1852 | 0.000000 | 1852 | 2418.704500 |
| 1853 | 0.000000 | 1853 | 2329.954500 |
| 1854 | 0.000000 | 1854 | 2307.268500 |
| 1855 | 0.000000 | 1855 | 2358.261787 |
| 1856 | 0.000000 | 1856 | 2348.262500 |
| 1857 | 0.000000 | 1857 | 2441.439787 |
| 1858 | 0.000000 | 1858 | 132.136000 |
| 1859 | 0.000000 | 1859 | 116.618000 |
| 1860 | 0.000000 | 1860 | 217.304000 |
| 1861 | 0.000000 | 1861 | 60.052713 |
| 1862 | 1.599280 | 1862 | 0.000000 |
| 1863 | 0.000000 | 1863 | 140.494000 |
| 1864 | 0.000000 | 1864 | 52.134000 |
| 1865 | 0.000000 | 1865 | 94.276713 |
| 1866 | 0.000000 | 1866 | 2320.004500 |
| 1867 | 0.089560 | 1867 | 0.000000 |
| 1868 | 0.000000 | 1868 | 2377.759787 |
| 1869 | 0.000000 | 1869 | 2303.288500 |
| 1870 | 0.000000 | 1870 | 2347.515787 |
| 1871 | 0.000000 | 1871 | 2324.780500 |
| 1872 | 0.000000 | 1872 | 2289.358500 |
| 1873 | 0.000000 | 1873 | 2378.555787 |
| 1874 | 0.000000 | 1874 | 2370.197787 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1875 | 0.000000 | 1875 | 2324.431787 |
| 1876 | 0.000000 | 1876 | 2460.539787 |
| 1877 | 0.000000 | 1877 | 2361.794500 |
| 1878 | 0.000000 | 1878 | 2329.999787 |
| 1879 | 0.000000 | 1879 | 2411.987787 |
| 1880 | 0.000000 | 1880 | 2391.640500 |
| 1881 | 0.000000 | 1881 | 2387.709787 |
| 1882 | 0.000000 | 1882 | 2285.427787 |
| 1883 | 0.000000 | 1883 | 2435.465787 |
| 1884 | 0.000000 | 1884 | 2363.386500 |
| 1885 | 0.000000 | 1885 | 2368.207787 |
| 1886 | 0.000000 | 1886 | 2350.297787 |
| 1887 | 0.000000 | 1887 | 2393.675787 |
| 1888 | 0.000000 | 1888 | 2385.670500 |
| 1889 | 0.000000 | 1889 | 2385.321787 |
| 1890 | 0.000000 | 1890 | 12.338000 |
| 1891 | -0.000000 | 1891 | 0.000000 |
| 1892 | 0.000000 | 1892 | 2374.575787 |
| 1893 | 0.000000 | 1893 | 2369.401787 |
| 1894 | 0.000000 | 1894 | 22.288000 |
| 1895 | -0.000000 | 1895 | 0.000000 |
| 1896 | 0.000000 | 1896 | 2370.197787 |
| 1897 | 0.000000 | 1897 | 2402.037787 |
| 1898 | 0.000000 | 1898 | 2361.843787 |
| 1899 | 0.000000 | 1899 | 2461.733787 |
| 1900 | 0.000000 | 1900 | 2357.018500 |
| 1901 | 0.000000 | 1901 | 2350.695787 |
| 1902 | 0.000000 | 1902 | 2410.793787 |
| 1903 | 0.000000 | 1903 | 2386.113787 |
| 1904 | 0.000000 | 1904 | 2412.734500 |
| 1905 | 0.000000 | 1905 | 2431.091787 |
| 1906 | 0.000000 | 1906 | 2296.969787 |
| 1907 | 0.000000 | 1907 | 2485.613787 |
| 1908 | 0.000000 | 1908 | 2418.708500 |
| 1909 | 0.000000 | 1909 | 2428.703787 |
| 1910 | 0.000000 | 1910 | 2437.061787 |
| 1911 | 0.000000 | 1911 | 2469.648500 |
| 1912 | 0.000000 | 1912 | 2377.361787 |
| 1913 | 0.000000 | 1913 | 2371.391787 |
| 1914 | 0.000000 | 1914 | 146.464000 |
| 1915 | 0.268680 | 1915 | 0.000000 |
| 1916 | 0.000000 | 1916 | 2429.499787 |
| 1917 | 0.000000 | 1917 | 159.200000 |
| 1918 | -0.000000 | 1918 | 0.000000 |
| 1919 | 0.000000 | 1919 | 70.442000 |
| 1920 | -0.000000 | 1920 | 0.000000 |
| 1921 | 0.000000 | 1921 | 122.576000 |
| 1922 | 0.000000 | 1922 | 61.242713 |
| 1923 | 0.000000 | 1923 | 67.258000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 1924 | 0.000000 | 1924 | 84.322713 |
| 1925 | 0.000000 | 1925 | 145.668000 |
| 1926 | 0.000000 | 1926 | 110.648000 |
| 1927 | 0.000000 | 1927 | 196.210000 |
| 1928 | 0.000000 | 1928 | 73.982713 |
| 1929 | 1.074720 | 1929 | 0.000000 |
| 1930 | 0.000000 | 1930 | 146.862000 |
| 1931 | 0.000000 | 1931 | 35.020000 |
| 1932 | 0.000000 | 1932 | 120.942713 |
| 1933 | 0.000000 | 1933 | 2407.211787 |
| 1934 | 0.000000 | 1934 | 125.370000 |
| 1935 | 0.000000 | 1935 | 60.102000 |
| 1936 | 0.000000 | 1936 | 190.638000 |
| 1937 | 0.000000 | 1937 | 38.958713 |
| 1938 | 0.498976 | 1938 | 0.000000 |
| 1939 | 0.000000 | 1939 | 131.340000 |
| 1940 | 0.000000 | 1940 | 31.438000 |
| 1941 | 0.000000 | 1941 | 89.500713 |
| 1942 | 0.000000 | 1942 | 177.110000 |
| 1943 | 0.000000 | 1943 | 107.066000 |
| 1944 | 0.000000 | 1944 | 207.354000 |
| 1945 | 0.000000 | 1945 | 74.380713 |
| 1946 | 2.904300 | 1946 | 0.000000 |
| 1947 | 0.000000 | 1947 | 158.006000 |
| 1948 | 0.000000 | 1948 | 44.572000 |
| 1949 | 0.000000 | 1949 | 121.738713 |
| 1950 | 0.000000 | 1950 | 113.032000 |
| 1951 | 0.038383 | 1951 | 0.000000 |
| 1952 | 0.000000 | 1952 | 184.672000 |
| 1953 | 0.000000 | 1953 | 129.752000 |
| 1954 | 0.000000 | 1954 | 242.378000 |
| 1955 | 0.000000 | 1955 | 111.394713 |
| 1956 | 4.196520 | 1956 | 0.000000 |
| 1957 | 0.000000 | 1957 | 198.602000 |
| 1958 | 0.000000 | 1958 | 68.850000 |
| 1959 | 0.000000 | 1959 | 126.514713 |
| 1960 | 0.000000 | 1960 | 2415.569787 |
| 1961 | 0.000000 | 1961 | 2386.519787 |
| 1962 | 0.000000 | 1962 | 2492.379787 |
| 1963 | 0.000000 | 1963 | 2337.914500 |
| 1964 | 0.000000 | 1964 | 2320.845787 |
| 1965 | 0.000000 | 1965 | 2452.981787 |
| 1966 | 0.000000 | 1966 | 2349.497787 |
| 1967 | 0.000000 | 1967 | 2392.834500 |
| 1968 | 0.000000 | 1968 | 126.166000 |
| 1969 | 0.000000 | 1969 | 95.922000 |
| 1970 | 0.000000 | 1970 | 198.996000 |
| 1971 | 0.000000 | 1971 | 53.684713 |
| 1972 | 1.458550 | 1972 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 1973 | 0.000000 | 1973 | 152.036000 |
| 1974 | 0.000000 | 1974 | 31.438000 |
| 1975 | 0.000000 | 1975 | 99.052713 |
| 1976 | 0.000000 | 1976 | 121.390000 |
| 1977 | -0.000000 | 1977 | 0.000000 |
| 1978 | 0.000000 | 1978 | 132.136000 |
| 1979 | 0.000000 | 1979 | 117.016000 |
| 1980 | 0.000000 | 1980 | 205.762000 |
| 1981 | 0.000000 | 1981 | 93.882713 |
| 1982 | -0.000000 | 1982 | 0.000000 |
| 1983 | 0.000000 | 1983 | 180.294000 |
| 1984 | 0.000000 | 1984 | 110.196713 |
| 1985 | 0.000000 | 1985 | 2310.501787 |
| 1986 | 0.000000 | 1986 | 2291.397787 |
| 1987 | 0.000000 | 1987 | 2280.651787 |
| 1988 | 0.000000 | 1988 | 2347.515787 |
| 1989 | 0.000000 | 1989 | 2276.273787 |
| 1990 | 0.000000 | 1990 | 2490.393787 |
| 1991 | 0.000000 | 1991 | 2404.429787 |
| 1992 | 0.000000 | 1992 | 2456.165787 |
| 1993 | 0.000000 | 1993 | 2271.895787 |
| 1994 | 0.000000 | 1994 | 2408.807787 |
| 1995 | 0.000000 | 1995 | 2347.913787 |
| 1996 | 0.000000 | 1996 | 2506.711787 |
| 1997 | 0.000000 | 1997 | 2364.231787 |
| 1998 | 0.000000 | 1998 | 2295.377787 |
| 1999 | 0.000000 | 1999 | 2389.654500 |
| 2000 | 0.000000 | 2000 | 2319.257787 |
| 2001 | 0.000000 | 2001 | 139.743287 |
| 2002 | 0.000000 | 2002 | 130.991287 |
| 2003 | 0.000000 | 2003 | 241.627287 |
| 2004 | -0.000000 | 2004 | 0.000000 |
| 2005 | 0.000000 | 2005 | 131.385287 |
| 2006 | 0.000000 | 2006 | 169.195287 |
| 2007 | 0.000000 | 2007 | 2264.731787 |
| 2008 | 0.000000 | 2008 | 977.728000 |
| 2009 | 0.000000 | 2009 | 268.608000 |
| 2010 | 0.000000 | 2010 | 411.540000 |
| 2011 | 0.516506 | 2011 | 0.000000 |
| 2012 | 0.000000 | 2012 | 294.092000 |
| 2013 | 0.000000 | 2013 | 370.544000 |
| 2014 | 0.000000 | 2014 | 56.980000 |
| 2015 | 0.000000 | 2015 | 45.900000 |
| 2016 | 0.000000 | 2016 | 300.740000 |
| 2017 | 1.198297 | 2017 | 0.000000 |
| 2018 | 0.000000 | 2018 | 14.876000 |
| 2019 | 0.000000 | 2019 | 230.936000 |
| 2020 | 0.000000 | 2020 | 309.604000 |
| 2021 | 0.000000 | 2021 | 1121.768000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2022 | 0.000000 | 2022 | 535.636000 |
| 2023 | -0.000000 | 2023 | 0.000000 |
| 2024 | 0.000000 | 2024 | 202.128000 |
| 2025 | 0.000000 | 2025 | 442.564000 |
| 2026 | 0.000000 | 2026 | 192.156000 |
| 2027 | 0.000000 | 2027 | 1115.120000 |
| 2028 | 0.000000 | 2028 | 320.684000 |
| 2029 | 1.022683 | 2029 | 0.000000 |
| 2030 | 0.000000 | 2030 | 335.088000 |
| 2031 | 0.000000 | 2031 | 185.508000 |
| 2032 | 0.000000 | 2032 | 742.196000 |
| 2033 | 0.000000 | 2033 | 1573.196000 |
| 2034 | 0.000000 | 2034 | 809.784000 |
| 2035 | 0.000000 | 2035 | 849.672000 |
| 2036 | 0.000000 | 2036 | 868.508000 |
| 2037 | 0.000000 | 2037 | 614.776000 |
| 2038 | 0.000000 | 2038 | 865.184000 |
| 2039 | 0.020660 | 2039 | 0.000000 |
| 2040 | 0.020660 | 2040 | 0.000000 |
| 2041 | 0.030990 | 2041 | 0.000000 |
| 2042 | 0.030990 | 2042 | 0.000000 |
| 2043 | 0.092971 | 2043 | 0.000000 |
| 2044 | 0.000000 | 2044 | 6944.854134 |
| 2045 | 0.010330 | 2045 | 0.000000 |
| 2046 | -0.000000 | 2046 | 0.000000 |
| 2047 | 0.000000 | 2047 | 115.232000 |
| 2048 | 0.000000 | 2048 | 247.556000 |
| 2049 | 0.000000 | 2049 | 646.436000 |
| 2050 | 0.000000 | 2050 | 223.180000 |
| 2051 | 0.000000 | 2051 | 530.096000 |
| 2052 | 0.123962 | 2052 | 0.000000 |
| 2053 | 0.000000 | 2053 | 184.400000 |
| 2054 | 0.000000 | 2054 | 446.996000 |
| 2055 | 0.000000 | 2055 | 174.428000 |
| 2056 | 0.000000 | 2056 | 868.036000 |
| 2057 | 0.000000 | 2057 | 302.956000 |
| 2058 | 0.000000 | 2058 | 408.216000 |
| 2059 | 0.061981 | 2059 | 0.000000 |
| 2060 | 0.000000 | 2060 | 208.776000 |
| 2061 | 0.000000 | 2061 | 348.384000 |
| 2062 | 0.000000 | 2062 | 15.512000 |
| 2063 | -0.000000 | 2063 | 0.000000 |
| 2064 | 0.000000 | 2064 | 7088.894134 |
| 2065 | 0.092971 | 2065 | 0.000000 |
| 2066 | 0.072311 | 2066 | 0.000000 |
| 2067 | 0.000000 | 2067 | 189.940000 |
| 2068 | 0.000000 | 2068 | 709.592000 |
| 2069 | 0.000000 | 2069 | 289.660000 |
| 2070 | 0.000000 | 2070 | 188.832000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 2071 | 0.144622 | 2071 | 0.000000 |
| 2072 | 0.000000 | 2072 | 219.856000 |
| 2073 | 0.061981 | 2073 | 0.000000 |
| 2074 | 0.051651 | 2074 | 0.000000 |
| 2075 | 0.123962 | 2075 | 0.000000 |
| 2076 | 0.000000 | 2076 | 7217.422134 |
| 2077 | 0.041321 | 2077 | 0.000000 |
| 2078 | 0.000000 | 2078 | 509.044000 |
| 2079 | 0.000000 | 2079 | 1428.684000 |
| 2080 | 0.000000 | 2080 | 619.844000 |
| 2081 | 0.000000 | 2081 | 657.516000 |
| 2082 | 0.258253 | 2082 | 0.000000 |
| 2083 | 0.000000 | 2083 | 593.252000 |
| 2084 | 0.000000 | 2084 | 160.024000 |
| 2085 | 0.000000 | 2085 | 643.112000 |
| 2086 | 0.020660 | 2086 | 0.000000 |
| 2087 | 0.092971 | 2087 | 0.000000 |
| 2088 | 0.030990 | 2088 | 0.000000 |
| 2089 | 0.196273 | 2089 | 0.000000 |
| 2090 | 0.206603 | 2090 | 0.000000 |
| 2091 | 0.320234 | 2091 | 0.000000 |
| 2092 | 0.010330 | 2092 | 0.000000 |
| 2093 | 0.030990 | 2093 | 0.000000 |
| 2094 | 0.000000 | 2094 | 253.096000 |
| 2095 | 0.000000 | 2095 | 1088.528000 |
| 2096 | 0.000000 | 2096 | 378.300000 |
| 2097 | 0.000000 | 2097 | 578.848000 |
| 2098 | 0.103301 | 2098 | 0.000000 |
| 2099 | 0.000000 | 2099 | 430.376000 |
| 2100 | 0.000000 | 2100 | 552.256000 |
| 2101 | 0.000000 | 2101 | 195.480000 |
| 2102 | 0.000000 | 2102 | 873.576000 |
| 2103 | 0.000000 | 2103 | 202.128000 |
| 2104 | 0.000000 | 2104 | 476.912000 |
| 2105 | 0.630138 | 2105 | 0.000000 |
| 2106 | 0.000000 | 2106 | 152.268000 |
| 2107 | 0.000000 | 2107 | 85.788000 |
| 2108 | 0.000000 | 2108 | 429.268000 |
| 2109 | 0.010330 | 2109 | 0.000000 |
| 2110 | 0.010330 | 2110 | 0.000000 |
| 2111 | 0.000000 | 2111 | 26.592000 |
| 2112 | 0.041321 | 2112 | 0.000000 |
| 2113 | 0.000000 | 2113 | 6927.126134 |
| 2114 | 0.000000 | 2114 | 1.108000 |
| 2115 | 0.123962 | 2115 | 0.000000 |
| 2116 | 0.051651 | 2116 | 0.000000 |
| 2117 | 0.000000 | 2117 | 284.120000 |
| 2118 | 0.000000 | 2118 | 1135.064000 |
| 2119 | 0.000000 | 2119 | 324.008000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 2120 | 0.000000 | 2120 | 507.936000 |
| 2121 | 0.206603 | 2121 | 0.000000 |
| 2122 | 0.000000 | 2122 | 369.436000 |
| 2123 | 0.000000 | 2123 | 113.488000 |
| 2124 | 0.000000 | 2124 | 553.364000 |
| 2125 | 0.000000 | 2125 | 147.836000 |
| 2126 | 0.000000 | 2126 | 737.292000 |
| 2127 | 0.000000 | 2127 | 173.320000 |
| 2128 | 0.000000 | 2128 | 462.508000 |
| 2129 | 0.144622 | 2129 | 0.000000 |
| 2130 | 0.000000 | 2130 | 225.396000 |
| 2131 | 0.000000 | 2131 | 494.640000 |
| 2132 | 0.010330 | 2132 | 0.000000 |
| 2133 | 0.010330 | 2133 | 0.000000 |
| 2134 | 0.000000 | 2134 | 548.932000 |
| 2135 | 0.113632 | 2135 | 0.000000 |
| 2136 | 0.185942 | 2136 | 0.000000 |
| 2137 | 0.000000 | 2137 | 584.388000 |
| 2138 | 0.258253 | 2138 | 0.000000 |
| 2139 | 0.000000 | 2139 | 150.052000 |
| 2140 | 0.000000 | 2140 | 916.788000 |
| 2141 | 0.000000 | 2141 | 168.888000 |
| 2142 | 0.000000 | 2142 | 473.588000 |
| 2143 | 0.702449 | 2143 | 0.000000 |
| 2144 | 0.000000 | 2144 | 428.160000 |
| 2145 | 0.000000 | 2145 | 546.716000 |
| 2146 | 0.000000 | 2146 | 1412.064000 |
| 2147 | 0.000000 | 2147 | 561.120000 |
| 2148 | 0.000000 | 2148 | 696.296000 |
| 2149 | 0.423536 | 2149 | 0.000000 |
| 2150 | 0.000000 | 2150 | 610.980000 |
| 2151 | 0.000000 | 2151 | 112.380000 |
| 2152 | 0.000000 | 2152 | 717.348000 |
| 2153 | 0.041321 | 2153 | 0.000000 |
| 2154 | 0.000000 | 2154 | 490.208000 |
| 2155 | 0.000000 | 2155 | 1271.348000 |
| 2156 | 0.000000 | 2156 | 545.608000 |
| 2157 | 0.000000 | 2157 | 598.792000 |
| 2158 | 0.165282 | 2158 | 0.000000 |
| 2159 | 0.000000 | 2159 | 567.768000 |
| 2160 | 0.000000 | 2160 | 102.408000 |
| 2161 | 0.000000 | 2161 | 629.816000 |
| 2162 | 0.000000 | 2162 | 634.248000 |
| 2163 | 0.000000 | 2163 | 1402.092000 |
| 2164 | 0.000000 | 2164 | 592.144000 |
| 2165 | 0.000000 | 2165 | 697.404000 |
| 2166 | 0.185942 | 2166 | 0.000000 |
| 2167 | 0.000000 | 2167 | 642.004000 |
| 2168 | 0.000000 | 2168 | 138.972000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2169 | 0.000000 | 2169 | 719.564000 |
| 2170 | 0.000000 | 2170 | 455.860000 |
| 2171 | 0.020660 | 2171 | 0.000000 |
| 2172 | 0.000000 | 2172 | 655.300000 |
| 2173 | 0.000000 | 2173 | 1465.248000 |
| 2174 | 0.000000 | 2174 | 689.648000 |
| 2175 | 0.000000 | 2175 | 800.448000 |
| 2176 | 0.795421 | 2176 | 0.000000 |
| 2177 | 0.000000 | 2177 | 755.020000 |
| 2178 | 0.000000 | 2178 | 206.560000 |
| 2179 | 0.000000 | 2179 | 732.860000 |
| 2180 | 0.000000 | 2180 | 404.892000 |
| 2181 | 0.000000 | 2181 | 1286.860000 |
| 2182 | 0.000000 | 2182 | 492.424000 |
| 2183 | 0.000000 | 2183 | 537.852000 |
| 2184 | 0.578488 | 2184 | 0.000000 |
| 2185 | 0.000000 | 2185 | 569.984000 |
| 2186 | 0.000000 | 2186 | 94.652000 |
| 2187 | 0.000000 | 2187 | 581.064000 |
| 2188 | 0.000000 | 2188 | 492.424000 |
| 2189 | 0.000000 | 2189 | 1371.068000 |
| 2190 | 0.000000 | 2190 | 568.876000 |
| 2191 | 0.000000 | 2191 | 639.788000 |
| 2192 | 1.911080 | 2192 | 0.000000 |
| 2193 | 0.000000 | 2193 | 625.384000 |
| 2194 | 0.000000 | 2194 | 102.408000 |
| 2195 | 0.000000 | 2195 | 656.408000 |
| 2196 | 0.000000 | 2196 | 479.128000 |
| 2197 | 0.134292 | 2197 | 0.000000 |
| 2198 | 0.000000 | 2198 | 509.044000 |
| 2199 | 0.000000 | 2199 | 1429.792000 |
| 2200 | 0.000000 | 2200 | 587.712000 |
| 2201 | 0.000000 | 2201 | 751.696000 |
| 2202 | -0.000000 | 2202 | 0.000000 |
| 2203 | 0.000000 | 2203 | 704.052000 |
| 2204 | 0.000000 | 2204 | 687.432000 |
| 2205 | 0.020660 | 2205 | 0.000000 |
| 2206 | 0.082641 | 2206 | 0.000000 |
| 2207 | 0.000000 | 2207 | 7642.894134 |
| 2208 | 0.092971 | 2208 | 0.000000 |
| 2209 | 0.082641 | 2209 | 0.000000 |
| 2210 | 0.258253 | 2210 | 0.000000 |
| 2211 | 0.041321 | 2211 | 0.000000 |
| 2212 | 0.061981 | 2212 | 0.000000 |
| 2213 | 0.030990 | 2213 | 0.000000 |
| 2214 | 0.000000 | 2214 | 7999.670134 |
| 2215 | 0.082641 | 2215 | 0.000000 |
| 2216 | 0.082641 | 2216 | 0.000000 |
| 2217 | 0.227263 | 2217 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2218 | 0.010330 | 2218 | 0.000000 |
| 2219 | 0.000000 | 2219 | 7332.654134 |
| 2220 | 0.144622 | 2220 | 0.000000 |
| 2221 | 0.000000 | 2221 | 164.456000 |
| 2222 | 0.000000 | 2222 | 1102.932000 |
| 2223 | 0.000000 | 2223 | 321.792000 |
| 2224 | 0.000000 | 2224 | 124.568000 |
| 2225 | -0.000000 | 2225 | 0.000000 |
| 2226 | 0.000000 | 2226 | 307.388000 |
| 2227 | 0.030990 | 2227 | 0.000000 |
| 2228 | 0.000000 | 2228 | 411.592000 |
| 2229 | 0.000000 | 2229 | 183.896000 |
| 2230 | 2.253427 | 2230 | 0.000000 |
| 2231 | 0.000000 | 2231 | 205.708000 |
| 2232 | 0.000000 | 2232 | 166.340000 |
| 2233 | 0.000000 | 2233 | 35.468000 |
| 2234 | 0.000000 | 2234 | 75.900000 |
| 2235 | 0.000000 | 2235 | 130.164000 |
| 2236 | 0.674102 | 2236 | 0.000000 |
| 2237 | 0.000000 | 2237 | 258.908000 |
| 2238 | 0.000000 | 2238 | 85.476000 |
| 2239 | 0.000000 | 2239 | 21.636000 |
| 2240 | 0.000000 | 2240 | 84.412000 |
| 2241 | 0.000000 | 2241 | 421.168000 |
| 2242 | -0.000000 | 2242 | 0.000000 |
| 2243 | 0.000000 | 2243 | 146.124000 |
| 2244 | 0.000000 | 2244 | 62.600000 |
| 2245 | 0.000000 | 2245 | 10.464000 |
| 2246 | 0.000000 | 2246 | 280.544000 |
| 2247 | 0.000000 | 2247 | 670.500000 |
| 2248 | 0.000000 | 2248 | 401.840000 |
| 2249 | 0.000000 | 2249 | 398.648000 |
| 2250 | 0.000000 | 2250 | 378.964000 |
| 2251 | 0.000000 | 2251 | 139.564000 |
| 2252 | 0.000000 | 2252 | 141.336000 |
| 2253 | 0.000000 | 2253 | 487.136000 |
| 2254 | 0.000000 | 2254 | 233.372000 |
| 2255 | 1.348205 | 2255 | 0.000000 |
| 2256 | 0.000000 | 2256 | 231.776000 |
| 2257 | 0.000000 | 2257 | 243.480000 |
| 2258 | 0.000000 | 2258 | 62.600000 |
| 2259 | 0.019260 | 2259 | 0.000000 |
| 2260 | 0.211861 | 2260 | 0.000000 |
| 2261 | 0.173341 | 2261 | 0.000000 |
| 2262 | 0.019260 | 2262 | 0.000000 |
| 2263 | 0.173341 | 2263 | 0.000000 |
| 2264 | 0.115560 | 2264 | 0.000000 |
| 2265 | 0.057780 | 2265 | 0.000000 |
| 2266 | 0.019260 | 2266 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 2267 | 0.000000 | 2267 | 85.120000 |
| 2268 | 0.000000 | 2268 | 57.280000 |
| 2269 | 0.000000 | 2269 | 195.600000 |
| 2270 | 0.000000 | 2270 | 105.160000 |
| 2271 | 0.442982 | 2271 | 0.000000 |
| 2272 | 0.000000 | 2272 | 148.784000 |
| 2273 | 0.000000 | 2273 | 56.748000 |
| 2274 | 0.000000 | 2274 | 15.252000 |
| 2275 | 0.000000 | 2275 | 80.688000 |
| 2276 | 0.000000 | 2276 | 360.520000 |
| 2277 | 0.000000 | 2277 | 201.984000 |
| 2278 | 0.346681 | 2278 | 0.000000 |
| 2279 | 0.000000 | 2279 | 207.304000 |
| 2280 | 0.000000 | 2280 | 126.972000 |
| 2281 | 0.000000 | 2281 | 26.424000 |
| 2282 | 0.000000 | 2282 | 145.236000 |
| 2283 | 0.154081 | 2283 | 0.000000 |
| 2284 | 0.096300 | 2284 | 0.000000 |
| 2285 | 0.192601 | 2285 | 0.000000 |
| 2286 | 0.211861 | 2286 | 0.000000 |
| 2287 | 0.000000 | 2287 | 193.472000 |
| 2288 | 0.000000 | 2288 | 389.780000 |
| 2289 | 0.000000 | 2289 | 300.936000 |
| 2290 | 0.269641 | 2290 | 0.000000 |
| 2291 | 0.000000 | 2291 | 312.640000 |
| 2292 | 0.000000 | 2292 | 70.048000 |
| 2293 | 0.057780 | 2293 | 0.000000 |
| 2294 | 0.134820 | 2294 | 0.000000 |
| 2295 | 0.057780 | 2295 | 0.000000 |
| 2296 | 0.000000 | 2296 | 3545.640000 |
| 2297 | 0.096300 | 2297 | 0.000000 |
| 2298 | 0.000000 | 2298 | 121.652000 |
| 2299 | 0.000000 | 2299 | 510.012000 |
| 2300 | 0.000000 | 2300 | 234.436000 |
| 2301 | 0.520022 | 2301 | 0.000000 |
| 2302 | 0.000000 | 2302 | 87.604000 |
| 2303 | 0.000000 | 2303 | 191.876000 |
| 2304 | 0.000000 | 2304 | 117.396000 |
| 2305 | 0.000000 | 2305 | 48.236000 |
| 2306 | 0.077040 | 2306 | 0.000000 |
| 2307 | 0.154081 | 2307 | 0.000000 |
| 2308 | 0.134820 | 2308 | 0.000000 |
| 2309 | 0.173341 | 2309 | 0.000000 |
| 2310 | 0.115560 | 2310 | 0.000000 |
| 2311 | 0.096300 | 2311 | 0.000000 |
| 2312 | 0.077040 | 2312 | 0.000000 |
| 2313 | 0.308161 | 2313 | 0.000000 |
| 2314 | 0.000000 | 2314 | 36.532000 |
| 2315 | 0.000000 | 2315 | 384.460000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 2316 | 0.000000 | 2316 | 156.232000 |
| 2317 | 0.635582 | 2317 | 0.000000 |
| 2318 | 0.000000 | 2318 | 125.376000 |
| 2319 | 0.000000 | 2319 | 151.444000 |
| 2320 | 0.000000 | 2320 | 42.384000 |
| 2321 | 0.000000 | 2321 | 57.812000 |
| 2322 | 0.000000 | 2322 | 330.196000 |
| 2323 | 0.000000 | 2323 | 120.588000 |
| 2324 | 0.808923 | 2324 | 0.000000 |
| 2325 | 0.000000 | 2325 | 174.320000 |
| 2326 | 0.000000 | 2326 | 66.856000 |
| 2327 | 0.000000 | 2327 | 168.468000 |
| 2328 | 0.000000 | 2328 | 32.276000 |
| 2329 | 0.038520 | 2329 | 0.000000 |
| 2330 | 0.211861 | 2330 | 0.000000 |
| 2331 | 0.000000 | 2331 | 42.560000 |
| 2332 | 0.250381 | 2332 | 0.000000 |
| 2333 | 0.038520 | 2333 | 0.000000 |
| 2334 | 0.442982 | 2334 | 0.000000 |
| 2335 | 0.000000 | 2335 | 29.260000 |
| 2336 | 0.481502 | 2336 | 0.000000 |
| 2337 | 0.000000 | 2337 | 85.476000 |
| 2338 | 0.000000 | 2338 | 440.852000 |
| 2339 | 0.000000 | 2339 | 164.212000 |
| 2340 | 0.520022 | 2340 | 0.000000 |
| 2341 | 0.000000 | 2341 | 159.424000 |
| 2342 | 0.000000 | 2342 | 156.232000 |
| 2343 | 0.000000 | 2343 | 166.872000 |
| 2344 | 0.000000 | 2344 | 76.964000 |
| 2345 | 0.000000 | 2345 | 41.852000 |
| 2346 | 0.000000 | 2346 | 271.676000 |
| 2347 | 0.000000 | 2347 | 113.672000 |
| 2348 | 0.751143 | 2348 | 0.000000 |
| 2349 | 0.000000 | 2349 | 181.236000 |
| 2350 | 0.000000 | 2350 | 108.884000 |
| 2351 | 0.000000 | 2351 | 70.580000 |
| 2352 | 0.096300 | 2352 | 0.000000 |
| 2353 | 0.096300 | 2353 | 0.000000 |
| 2354 | 0.000000 | 2354 | 53.200000 |
| 2355 | 0.269641 | 2355 | 0.000000 |
| 2356 | 0.308161 | 2356 | 0.000000 |
| 2357 | 0.000000 | 2357 | 70.224000 |
| 2358 | 0.654842 | 2358 | 0.000000 |
| 2359 | 0.000000 | 2359 | 37.596000 |
| 2360 | 0.000000 | 2360 | 352.540000 |
| 2361 | 0.000000 | 2361 | 106.224000 |
| 2362 | 1.752667 | 2362 | 0.000000 |
| 2363 | 0.000000 | 2363 | 175.916000 |
| 2364 | 0.000000 | 2364 | 33.340000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|------------|
| 2365 | 0.000000 | 2365 | 121.120000 |
| 2366 | 0.000000 | 2366 | 483.412000 |
| 2367 | 0.000000 | 2367 | 187.620000 |
| 2368 | 1.945270 | 2368 | 0.000000 |
| 2369 | 0.000000 | 2369 | 68.984000 |
| 2370 | 0.000000 | 2370 | 181.768000 |
| 2371 | 0.000000 | 2371 | 75.900000 |
| 2372 | 0.000000 | 2372 | 65.260000 |
| 2373 | 0.134820 | 2373 | 0.000000 |
| 2374 | 0.000000 | 2374 | 140.804000 |
| 2375 | 0.000000 | 2375 | 462.664000 |
| 2376 | 0.000000 | 2376 | 226.988000 |
| 2377 | 0.423721 | 2377 | 0.000000 |
| 2378 | 0.000000 | 2378 | 115.800000 |
| 2379 | 0.000000 | 2379 | 207.836000 |
| 2380 | 0.000000 | 2380 | 117.928000 |
| 2381 | 0.000000 | 2381 | 70.048000 |
| 2382 | 0.000000 | 2382 | 162.616000 |
| 2383 | 0.000000 | 2383 | 478.092000 |
| 2384 | 0.000000 | 2384 | 201.984000 |
| 2385 | 0.847443 | 2385 | 0.000000 |
| 2386 | 0.000000 | 2386 | 68.452000 |
| 2387 | 0.000000 | 2387 | 196.132000 |
| 2388 | 0.000000 | 2388 | 88.136000 |
| 2389 | 0.000000 | 2389 | 65.792000 |
| 2390 | 0.000000 | 2390 | 8.512000 |
| 2391 | 0.173341 | 2391 | 0.000000 |
| 2392 | 0.000000 | 2392 | 123.248000 |
| 2393 | 0.000000 | 2393 | 458.940000 |
| 2394 | 0.000000 | 2394 | 199.324000 |
| 2395 | 1.001520 | 2395 | 0.000000 |
| 2396 | 0.000000 | 2396 | 18.976000 |
| 2397 | 0.000000 | 2397 | 200.920000 |
| 2398 | 0.000000 | 2398 | 71.112000 |
| 2399 | 0.000000 | 2399 | 22.700000 |
| 2400 | 0.000000 | 2400 | 129.100000 |
| 2401 | 0.000000 | 2401 | 499.372000 |
| 2402 | 0.000000 | 2402 | 230.712000 |
| 2403 | 0.635582 | 2403 | 0.000000 |
| 2404 | 0.000000 | 2404 | 145.060000 |
| 2405 | 0.000000 | 2405 | 238.160000 |
| 2406 | 0.000000 | 2406 | 143.464000 |
| 2407 | 0.000000 | 2407 | 75.900000 |
| 2408 | 0.000000 | 2408 | 122.184000 |
| 2409 | 0.000000 | 2409 | 490.860000 |
| 2410 | 0.000000 | 2410 | 218.476000 |
| 2411 | 1.097820 | 2411 | 0.000000 |
| 2412 | 0.000000 | 2412 | 96.116000 |
| 2413 | 0.000000 | 2413 | 215.816000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2414 | 0.000000 | 2414 | 98.244000 |
| 2415 | 0.000000 | 2415 | 63.132000 |
| 2416 | 0.000000 | 2416 | 19.684000 |
| 2417 | 0.250381 | 2417 | 0.000000 |
| 2418 | 0.000000 | 2418 | 76.432000 |
| 2419 | 0.000000 | 2419 | 465.324000 |
| 2420 | 0.000000 | 2420 | 173.788000 |
| 2421 | -0.000000 | 2421 | 0.000000 |
| 2422 | 0.000000 | 2422 | 42.384000 |
| 2423 | 0.000000 | 2423 | 199.856000 |
| 2424 | 0.000000 | 2424 | 24.296000 |
| 2425 | 0.019260 | 2425 | 0.000000 |
| 2426 | 0.038520 | 2426 | 0.000000 |
| 2427 | 0.038520 | 2427 | 0.000000 |
| 2428 | 0.019260 | 2428 | 0.000000 |
| 2429 | 0.057780 | 2429 | 0.000000 |
| 2430 | 0.346681 | 2430 | 0.000000 |
| 2431 | 0.019260 | 2431 | 0.000000 |
| 2432 | 0.096300 | 2432 | 0.000000 |
| 2433 | 0.077040 | 2433 | 0.000000 |
| 2434 | 0.000000 | 2434 | 4060.972000 |
| 2435 | 0.038520 | 2435 | 0.000000 |
| 2436 | 0.134820 | 2436 | 0.000000 |
| 2437 | 0.115560 | 2437 | 0.000000 |
| 2438 | 0.000000 | 2438 | 3909.352000 |
| 2439 | 0.000000 | 2439 | 3600.968000 |
| 2440 | 0.019260 | 2440 | 0.000000 |
| 2441 | 0.000000 | 2441 | 212.092000 |
| 2442 | 0.000000 | 2442 | 609.496000 |
| 2443 | 0.000000 | 2443 | 347.220000 |
| 2444 | 0.154081 | 2444 | 0.000000 |
| 2445 | 0.000000 | 2445 | 343.496000 |
| 2446 | 0.000000 | 2446 | 310.512000 |
| 2447 | 0.057780 | 2447 | 0.000000 |
| 2448 | 0.000000 | 2448 | 411.592000 |
| 2449 | 0.000000 | 2449 | 183.896000 |
| 2450 | 1.510881 | 2450 | 0.000000 |
| 2451 | 0.000000 | 2451 | 205.708000 |
| 2452 | 0.000000 | 2452 | 166.340000 |
| 2453 | 0.000000 | 2453 | 35.468000 |
| 2454 | 0.000000 | 2454 | 75.900000 |
| 2455 | 0.000000 | 2455 | 130.164000 |
| 2456 | 0.373057 | 2456 | 0.000000 |
| 2457 | 0.000000 | 2457 | 258.908000 |
| 2458 | 0.000000 | 2458 | 85.476000 |
| 2459 | 0.000000 | 2459 | 21.636000 |
| 2460 | 0.000000 | 2460 | 84.412000 |
| 2461 | 0.000000 | 2461 | 421.168000 |
| 2462 | -0.000000 | 2462 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 2463 | 0.000000 | 2463 | 146.124000 |
| 2464 | 0.000000 | 2464 | 62.600000 |
| 2465 | 0.000000 | 2465 | 10.464000 |
| 2466 | 0.000000 | 2466 | 241.884000 |
| 2467 | 0.000000 | 2467 | 631.840000 |
| 2468 | 0.000000 | 2468 | 363.180000 |
| 2469 | 0.000000 | 2469 | 359.988000 |
| 2470 | 0.000000 | 2470 | 340.304000 |
| 2471 | 0.000000 | 2471 | 100.904000 |
| 2472 | 0.000000 | 2472 | 141.336000 |
| 2473 | 0.000000 | 2473 | 487.136000 |
| 2474 | 0.000000 | 2474 | 233.372000 |
| 2475 | 0.149223 | 2475 | 0.000000 |
| 2476 | 0.000000 | 2476 | 231.776000 |
| 2477 | 0.000000 | 2477 | 243.480000 |
| 2478 | 0.000000 | 2478 | 62.600000 |
| 2479 | 0.080829 | 2479 | 0.000000 |
| 2480 | 0.341969 | 2480 | 0.000000 |
| 2481 | 0.174093 | 2481 | 0.000000 |
| 2482 | 0.024871 | 2482 | 0.000000 |
| 2483 | 0.000000 | 2483 | 3729.664000 |
| 2484 | 0.049741 | 2484 | 0.000000 |
| 2485 | 0.136788 | 2485 | 0.000000 |
| 2486 | 0.018653 | 2486 | 0.000000 |
| 2487 | 0.000000 | 2487 | 85.120000 |
| 2488 | 0.000000 | 2488 | 57.280000 |
| 2489 | 0.000000 | 2489 | 195.600000 |
| 2490 | 0.000000 | 2490 | 105.160000 |
| 2491 | 0.254922 | 2491 | 0.000000 |
| 2492 | 0.000000 | 2492 | 148.784000 |
| 2493 | 0.000000 | 2493 | 56.748000 |
| 2494 | 0.000000 | 2494 | 15.252000 |
| 2495 | 0.000000 | 2495 | 80.688000 |
| 2496 | 0.000000 | 2496 | 360.520000 |
| 2497 | 0.000000 | 2497 | 201.984000 |
| 2498 | 0.341969 | 2498 | 0.000000 |
| 2499 | 0.000000 | 2499 | 207.304000 |
| 2500 | 0.000000 | 2500 | 126.972000 |
| 2501 | 0.000000 | 2501 | 26.424000 |
| 2502 | 0.000000 | 2502 | 145.236000 |
| 2503 | 0.087047 | 2503 | 0.000000 |
| 2504 | 0.000000 | 2504 | 3481.928000 |
| 2505 | 0.037306 | 2505 | 0.000000 |
| 2506 | 0.000000 | 2506 | 3460.116000 |
| 2507 | 0.000000 | 2507 | 193.472000 |
| 2508 | 0.000000 | 2508 | 389.780000 |
| 2509 | 0.000000 | 2509 | 300.936000 |
| 2510 | 0.124352 | 2510 | 0.000000 |
| 2511 | 0.000000 | 2511 | 312.640000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|----------|--------------|-------------|
| 2512 | 0.000000 | 2512 | 70.048000 |
| 2513 | 0.105699 | 2513 | 0.000000 |
| 2514 | 0.031088 | 2514 | 0.000000 |
| 2515 | 0.000000 | 2515 | 3991.408000 |
| 2516 | 0.012435 | 2516 | 0.000000 |
| 2517 | 0.024871 | 2517 | 0.000000 |
| 2518 | 0.000000 | 2518 | 121.652000 |
| 2519 | 0.000000 | 2519 | 510.012000 |
| 2520 | 0.000000 | 2520 | 234.436000 |
| 2521 | 0.087047 | 2521 | 0.000000 |
| 2522 | 0.000000 | 2522 | 87.604000 |
| 2523 | 0.000000 | 2523 | 191.876000 |
| 2524 | 0.000000 | 2524 | 117.396000 |
| 2525 | 0.000000 | 2525 | 48.236000 |
| 2526 | 0.074611 | 2526 | 0.000000 |
| 2527 | 0.037306 | 2527 | 0.000000 |
| 2528 | 0.087047 | 2528 | 0.000000 |
| 2529 | 0.149223 | 2529 | 0.000000 |
| 2530 | 0.000000 | 2530 | 3977.044000 |
| 2531 | 0.037306 | 2531 | 0.000000 |
| 2532 | 0.043523 | 2532 | 0.000000 |
| 2533 | 0.037306 | 2533 | 0.000000 |
| 2534 | 0.000000 | 2534 | 36.532000 |
| 2535 | 0.000000 | 2535 | 384.460000 |
| 2536 | 0.000000 | 2536 | 156.232000 |
| 2537 | 0.080829 | 2537 | 0.000000 |
| 2538 | 0.000000 | 2538 | 125.376000 |
| 2539 | 0.000000 | 2539 | 151.444000 |
| 2540 | 0.000000 | 2540 | 42.384000 |
| 2541 | 0.000000 | 2541 | 57.812000 |
| 2542 | 0.000000 | 2542 | 330.196000 |
| 2543 | 0.000000 | 2543 | 120.588000 |
| 2544 | 0.435233 | 2544 | 0.000000 |
| 2545 | 0.000000 | 2545 | 174.320000 |
| 2546 | 0.000000 | 2546 | 66.856000 |
| 2547 | 0.000000 | 2547 | 168.468000 |
| 2548 | 0.000000 | 2548 | 32.276000 |
| 2549 | 0.118135 | 2549 | 0.000000 |
| 2550 | 0.062176 | 2550 | 0.000000 |
| 2551 | 0.000000 | 2551 | 42.560000 |
| 2552 | 0.149223 | 2552 | 0.000000 |
| 2553 | 0.105699 | 2553 | 0.000000 |
| 2554 | 0.062176 | 2554 | 0.000000 |
| 2555 | 0.000000 | 2555 | 29.260000 |
| 2556 | 0.143005 | 2556 | 0.000000 |
| 2557 | 0.000000 | 2557 | 3640.820000 |
| 2558 | 0.000000 | 2558 | 3996.196000 |
| 2559 | 0.000000 | 2559 | 3719.556000 |
| 2560 | 0.000000 | 2560 | 3555.344000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2561 | 0.000000 | 2561 | 3714.768000 |
| 2562 | 0.000000 | 2562 | 3711.576000 |
| 2563 | 0.000000 | 2563 | 3722.216000 |
| 2564 | 0.000000 | 2564 | 3632.308000 |
| 2565 | 0.000000 | 2565 | 3679.656000 |
| 2566 | 0.000000 | 2566 | 3909.480000 |
| 2567 | 0.000000 | 2567 | 3751.476000 |
| 2568 | 0.000000 | 2568 | 3637.804000 |
| 2569 | 0.000000 | 2569 | 3819.040000 |
| 2570 | 0.000000 | 2570 | 3746.688000 |
| 2571 | 0.000000 | 2571 | 3708.384000 |
| 2572 | 0.043523 | 2572 | 0.000000 |
| 2573 | 0.043523 | 2573 | 0.000000 |
| 2574 | 0.000000 | 2574 | 53.200000 |
| 2575 | 0.031088 | 2575 | 0.000000 |
| 2576 | 0.099482 | 2576 | 0.000000 |
| 2577 | 0.000000 | 2577 | 70.224000 |
| 2578 | -0.000000 | 2578 | 0.000000 |
| 2579 | 0.000000 | 2579 | 37.596000 |
| 2580 | 0.000000 | 2580 | 352.540000 |
| 2581 | 0.000000 | 2581 | 106.224000 |
| 2582 | 0.864248 | 2582 | 0.000000 |
| 2583 | 0.000000 | 2583 | 175.916000 |
| 2584 | 0.000000 | 2584 | 33.340000 |
| 2585 | 0.000000 | 2585 | 121.120000 |
| 2586 | 0.000000 | 2586 | 483.412000 |
| 2587 | 0.000000 | 2587 | 187.620000 |
| 2588 | 0.012435 | 2588 | 0.000000 |
| 2589 | 0.000000 | 2589 | 68.984000 |
| 2590 | 0.000000 | 2590 | 181.768000 |
| 2591 | 0.000000 | 2591 | 75.900000 |
| 2592 | 0.000000 | 2592 | 65.260000 |
| 2593 | 0.031088 | 2593 | 0.000000 |
| 2594 | 0.000000 | 2594 | 140.804000 |
| 2595 | 0.000000 | 2595 | 462.664000 |
| 2596 | 0.000000 | 2596 | 226.988000 |
| 2597 | 0.068394 | 2597 | 0.000000 |
| 2598 | 0.000000 | 2598 | 115.800000 |
| 2599 | 0.000000 | 2599 | 207.836000 |
| 2600 | 0.000000 | 2600 | 117.928000 |
| 2601 | 0.000000 | 2601 | 70.048000 |
| 2602 | 0.000000 | 2602 | 3756.796000 |
| 2603 | 0.000000 | 2603 | 4072.272000 |
| 2604 | 0.000000 | 2604 | 3796.164000 |
| 2605 | 0.000000 | 2605 | 3594.180000 |
| 2606 | 0.000000 | 2606 | 3662.632000 |
| 2607 | 0.000000 | 2607 | 3790.312000 |
| 2608 | 0.000000 | 2608 | 3682.316000 |
| 2609 | 0.000000 | 2609 | 3659.972000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2610 | 0.000000 | 2610 | 8.512000 |
| 2611 | 0.043523 | 2611 | 0.000000 |
| 2612 | 0.000000 | 2612 | 123.248000 |
| 2613 | 0.000000 | 2613 | 458.940000 |
| 2614 | 0.000000 | 2614 | 199.324000 |
| 2615 | 0.715026 | 2615 | 0.000000 |
| 2616 | 0.000000 | 2616 | 18.976000 |
| 2617 | 0.000000 | 2617 | 200.920000 |
| 2618 | 0.000000 | 2618 | 71.112000 |
| 2619 | 0.000000 | 2619 | 22.700000 |
| 2620 | 0.000000 | 2620 | 129.100000 |
| 2621 | 0.000000 | 2621 | 499.372000 |
| 2622 | 0.000000 | 2622 | 230.712000 |
| 2623 | 0.074611 | 2623 | 0.000000 |
| 2624 | 0.000000 | 2624 | 145.060000 |
| 2625 | 0.000000 | 2625 | 238.160000 |
| 2626 | 0.000000 | 2626 | 143.464000 |
| 2627 | 0.000000 | 2627 | 75.900000 |
| 2628 | 0.000000 | 2628 | 122.184000 |
| 2629 | 0.000000 | 2629 | 490.860000 |
| 2630 | 0.000000 | 2630 | 218.476000 |
| 2631 | 0.074611 | 2631 | 0.000000 |
| 2632 | 0.000000 | 2632 | 96.116000 |
| 2633 | 0.000000 | 2633 | 215.816000 |
| 2634 | 0.000000 | 2634 | 98.244000 |
| 2635 | 0.000000 | 2635 | 63.132000 |
| 2636 | 0.000000 | 2636 | 19.684000 |
| 2637 | 0.074611 | 2637 | 0.000000 |
| 2638 | 0.000000 | 2638 | 76.432000 |
| 2639 | 0.000000 | 2639 | 465.324000 |
| 2640 | 0.000000 | 2640 | 173.788000 |
| 2641 | -0.000000 | 2641 | 0.000000 |
| 2642 | 0.000000 | 2642 | 42.384000 |
| 2643 | 0.000000 | 2643 | 199.856000 |
| 2644 | 0.000000 | 2644 | 24.296000 |
| 2645 | 0.000000 | 2645 | 3927.568000 |
| 2646 | 0.136788 | 2646 | 0.000000 |
| 2647 | 0.000000 | 2647 | 3887.668000 |
| 2648 | 0.000000 | 2648 | 3977.044000 |
| 2649 | 0.037306 | 2649 | 0.000000 |
| 2650 | 0.478756 | 2650 | 0.000000 |
| 2651 | 0.000000 | 2651 | 4053.120000 |
| 2652 | 0.031088 | 2652 | 0.000000 |
| 2653 | 0.049741 | 2653 | 0.000000 |
| 2654 | 0.000000 | 2654 | 4058.972000 |
| 2655 | 0.024871 | 2655 | 0.000000 |
| 2656 | 0.031088 | 2656 | 0.000000 |
| 2657 | 0.024871 | 2657 | 0.000000 |
| 2658 | 0.000000 | 2658 | 3907.352000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-------------|
| 2659 | 0.000000 | 2659 | 3598.968000 |
| 2660 | 0.099482 | 2660 | 0.000000 |
| 2661 | 0.000000 | 2661 | 212.092000 |
| 2662 | 0.000000 | 2662 | 609.496000 |
| 2663 | 0.000000 | 2663 | 347.220000 |
| 2664 | 0.087047 | 2664 | 0.000000 |
| 2665 | 0.000000 | 2665 | 343.496000 |
| 2666 | 0.000000 | 2666 | 310.512000 |
| 2667 | 0.000000 | 2667 | 3866.388000 |
| 2668 | 2.232798 | 2668 | 0.000000 |
| 2669 | 30.271218 | 2669 | 0.000000 |
| 2670 | 17.787432 | 2670 | 0.000000 |
| 2671 | 12.053189 | 2671 | 0.000000 |
| 2672 | 8.328207 | 2672 | 0.000000 |
| 2673 | 19.633339 | 2673 | 0.000000 |
| 2674 | 22.215486 | 2674 | 0.000000 |
| 2675 | -0.000000 | 2675 | 0.000000 |
| 2676 | -0.000000 | 2676 | 0.000000 |
| 2677 | 0.495846 | 2677 | 0.000000 |
| 2678 | 2.253427 | 2678 | 0.000000 |
| 2679 | 1.510881 | 2679 | 0.000000 |
| 2680 | 0.144051 | 2680 | 0.000000 |
| 2681 | 13.759640 | 2681 | 0.000000 |
| 2682 | 10.248388 | 2682 | 0.000000 |
| 2683 | 3.533919 | 2683 | 0.000000 |
| 2684 | 4.092308 | 2684 | 0.000000 |
| 2685 | 11.780010 | 2685 | 0.000000 |
| 2686 | 9.221521 | 2686 | 0.000000 |
| 2687 | -0.000000 | 2687 | 0.000000 |
| 2688 | -0.000000 | 2688 | 0.000000 |
| 2689 | 1.177636 | 2689 | 0.000000 |
| 2690 | 0.674102 | 2690 | 0.000000 |
| 2691 | 0.373057 | 2691 | 0.000000 |
| 2692 | -0.000000 | 2692 | 0.000000 |
| 2693 | -0.000000 | 2693 | 0.000000 |
| 2694 | -0.000000 | 2694 | 0.000000 |
| 2695 | -0.000000 | 2695 | 0.000000 |
| 2696 | -0.000000 | 2696 | 0.000000 |
| 2697 | -0.000000 | 2697 | 0.000000 |
| 2698 | -0.000000 | 2698 | 0.000000 |
| 2699 | -0.000000 | 2699 | 0.000000 |
| 2700 | -0.000000 | 2700 | 0.000000 |
| 2701 | -0.000000 | 2701 | 0.000000 |
| 2702 | -0.000000 | 2702 | 0.000000 |
| 2703 | -0.000000 | 2703 | 0.000000 |
| 2704 | -0.000000 | 2704 | 0.000000 |
| 2705 | 0.000000 | 2705 | 27.060000 |
| 2706 | 0.000000 | 2706 | 27.060000 |
| 2707 | 0.000000 | 2707 | 27.060000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|-----------|
| 2708 | 0.323077 | 2708 | 0.000000 |
| 2709 | 0.000000 | 2709 | 27.060000 |
| 2710 | 0.000000 | 2710 | 27.060000 |
| 2711 | 0.000000 | 2711 | 27.060000 |
| 2712 | 0.000000 | 2712 | 27.060000 |
| 2713 | 0.919382 | 2713 | 0.000000 |
| 2714 | -0.000000 | 2714 | 0.000000 |
| 2715 | 0.000000 | 2715 | 38.660000 |
| 2716 | -0.000000 | 2716 | 0.000000 |
| 2717 | 0.000000 | 2717 | 27.060000 |
| 2718 | 0.000000 | 2718 | 27.060000 |
| 2719 | -0.000000 | 2719 | 0.000000 |
| 2720 | -0.000000 | 2720 | 0.000000 |
| 2721 | 0.000000 | 2721 | 27.060000 |
| 2722 | 0.000000 | 2722 | 27.060000 |
| 2723 | -0.000000 | 2723 | 0.000000 |
| 2724 | -0.000000 | 2724 | 0.000000 |
| 2725 | -0.000000 | 2725 | 0.000000 |
| 2726 | 1.348205 | 2726 | 0.000000 |
| 2727 | 0.149223 | 2727 | 0.000000 |
| 2728 | 1.560557 | 2728 | 0.000000 |
| 2729 | 13.576176 | 2729 | 0.000000 |
| 2730 | 10.012786 | 2730 | 0.000000 |
| 2731 | 6.373682 | 2731 | 0.000000 |
| 2732 | 5.887182 | 2732 | 0.000000 |
| 2733 | 9.424006 | 2733 | 0.000000 |
| 2734 | 11.596763 | 2734 | 0.000000 |
| 2735 | -0.000000 | 2735 | 0.000000 |
| 2736 | -0.000000 | 2736 | 0.000000 |
| 2737 | 0.702449 | 2737 | 0.000000 |
| 2738 | 1.752667 | 2738 | 0.000000 |
| 2739 | 0.864248 | 2739 | 0.000000 |
| 2740 | -0.000000 | 2740 | 0.000000 |
| 2741 | -0.000000 | 2741 | 0.000000 |
| 2742 | -0.000000 | 2742 | 0.000000 |
| 2743 | -0.000000 | 2743 | 0.000000 |
| 2744 | -0.000000 | 2744 | 0.000000 |
| 2745 | -0.000000 | 2745 | 0.000000 |
| 2746 | -0.000000 | 2746 | 0.000000 |
| 2747 | -0.000000 | 2747 | 0.000000 |
| 2748 | -0.000000 | 2748 | 0.000000 |
| 2749 | -0.000000 | 2749 | 0.000000 |
| 2750 | -0.000000 | 2750 | 0.000000 |
| 2751 | -0.000000 | 2751 | 0.000000 |
| 2752 | -0.000000 | 2752 | 0.000000 |
| 2753 | 4.036160 | 2753 | 0.000000 |
| 2754 | 2.002560 | 2754 | 0.000000 |
| 2755 | -0.000000 | 2755 | 0.000000 |
| 2756 | -0.000000 | 2756 | 0.000000 |

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| Coordenada x | Valor x | Coordenada z | Valor z |
|--------------|-----------|--------------|----------|
| 2757 | 2.748670 | 2757 | 0.000000 |
| 2758 | 2.794400 | 2758 | 0.000000 |
| 2759 | -0.000000 | 2759 | 0.000000 |
| 2760 | -0.000000 | 2760 | 0.000000 |
| 2761 | -0.000000 | 2761 | 0.000000 |
| 2762 | 0.154081 | 2762 | 0.000000 |
| 2763 | 0.087047 | 2763 | 0.000000 |

3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema ship12s

| 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 | -42213.653413 |
| 15 | -0.000000 |
| 16 | -0.000000 |
| 17 | -0.000000 |
| 18 | -0.000000 |
| 19 | -0.000000 |
| 20 | -0.000000 |
| 21 | -0.000000 |
| 22 | -0.000000 |
| 23 | -0.000000 |
| 24 | -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 |

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| Coordenada y | Valor y |
|--------------|------------|
| 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 |
| 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 | -0.000000 |
| 77 | -27.060000 |
| 78 | -27.060000 |
| 79 | -27.060000 |
| 80 | -27.060000 |
| 81 | -27.060000 |
| 82 | -27.060000 |

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| Coordenada y | Valor y |
|----------------------------|-------------|
| 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 |
| 114 | -38.660000 |
| 115 | -0.000000 |
| 116 | -38.660000 |
| 117 | -38.660000 |
| 118 | -38.660000 |
| 119 | -38.660000 |
| 120 | 2491.590500 |
| 121 | 2670.006500 |
| 122 | 2508.228500 |
| 123 | 2520.618500 |
| 124 | 2380.632500 |
| 125 | -0.000000 |
| 126 | 2526.084500 |
| 127 | 2542.014500 |
| 128 | -0.000000 |
| 129 | -0.000000 |
| 130 | -0.000000 |
| 131 | -0.000000 |
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| Coordenada y | Valor y |
|--------------|-------------|
| 132 | -0.000000 |
| 133 | 2568.918500 |
| 134 | -0.000000 |
| 135 | -0.000000 |
| 136 | 2567.148500 |
| 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 | 2443.800500 |
| 148 | -0.000000 |
| 149 | -0.000000 |
| 150 | 2557.944500 |
| 151 | -0.000000 |
| 152 | -0.000000 |
| 153 | -0.000000 |
| 154 | -0.000000 |
| 155 | 2578.122500 |
| 156 | 2472.120500 |
| 157 | 2506.104500 |
| 158 | -0.000000 |
| 159 | 2577.060500 |
| 160 | 2574.582500 |
| 161 | -0.000000 |
| 162 | 2574.582500 |
| 163 | 2570.688500 |
| 164 | 2490.528500 |
| 165 | 2559.912500 |
| 166 | -0.000000 |
| 167 | 2552.280500 |
| 168 | 2461.500500 |
| 169 | 2603.964500 |
| 170 | 2451.234500 |
| 171 | 2512.122500 |
| 172 | 2472.828500 |
| 173 | 2584.140500 |
| 174 | 2462.208500 |
| 175 | 2455.836500 |
| 176 | 2467.164500 |
| 177 | 2415.126500 |
| 178 | 2463.978500 |
| 179 | 2455.482500 |
| 180 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 181 | -0.000000 |
| 182 | 2461.500500 |
| 183 | 2428.224500 |
| 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 | 2647.152500 |
| 193 | -0.000000 |
| 194 | 2893.182500 |
| 195 | 2839.020500 |
| 196 | -0.000000 |
| 197 | -0.000000 |
| 198 | -0.000000 |
| 199 | -0.000000 |
| 200 | -0.000000 |
| 201 | -0.000000 |
| 202 | 2530.530500 |
| 203 | -0.000000 |
| 204 | -0.000000 |
| 205 | -0.000000 |
| 206 | 2391.027000 |
| 207 | 2534.043000 |
| 208 | 2447.313000 |
| 209 | 2317.395000 |
| 210 | 2386.692500 |
| 211 | 2488.533000 |
| 212 | 2425.521000 |
| 213 | 2441.451000 |
| 214 | 2466.939000 |
| 215 | 2538.093000 |
| 216 | 2455.611000 |
| 217 | 2449.239000 |
| 218 | -0.000000 |
| 219 | 2468.355000 |
| 220 | 2485.899000 |
| 221 | 2418.993000 |
| 222 | 2374.899000 |
| 223 | 2371.911000 |
| 224 | 2373.681000 |
| 225 | 2357.397000 |
| 226 | 2430.675000 |
| 227 | 2396.691000 |
| 228 | 2376.513000 |
| 229 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 230 | 2712.261000 |
| 231 | 2412.975000 |
| 232 | 2553.315000 |
| 233 | 2421.825000 |
| 234 | 2387.841000 |
| 235 | 2425.011000 |
| 236 | 2457.381000 |
| 237 | 2372.973000 |
| 238 | 2702.703000 |
| 239 | 2392.089000 |
| 240 | 2360.583000 |
| 241 | 2497.383000 |
| 242 | 2425.011000 |
| 243 | 2426.427000 |
| 244 | 2464.107000 |
| 245 | 2476.497000 |
| 246 | 2493.843000 |
| 247 | 2449.947000 |
| 248 | 2474.373000 |
| 249 | 2489.949000 |
| 250 | 2420.763000 |
| 251 | 2475.633000 |
| 252 | 2457.027000 |
| 253 | 2451.717000 |
| 254 | 2440.500500 |
| 255 | 2503.401000 |
| 256 | 2430.234500 |
| 257 | 2431.383000 |
| 258 | 2451.828500 |
| 259 | 2483.577000 |
| 260 | 2421.471000 |
| 261 | 2434.836500 |
| 262 | 2446.164500 |
| 263 | 2394.126500 |
| 264 | 2403.771000 |
| 265 | 2427.843000 |
| 266 | -0.000000 |
| 267 | -0.000000 |
| 268 | 2440.500500 |
| 269 | 2407.224500 |
| 270 | 2669.781000 |
| 271 | 2652.789000 |
| 272 | 2643.231000 |
| 273 | 2702.703000 |
| 274 | 2639.337000 |
| 275 | -0.000000 |
| 276 | 2596.857000 |
| 277 | 2753.325000 |
| 278 | 2566.413000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 279 | 2635.443000 |
| 280 | 2757.219000 |
| 281 | 2703.057000 |
| 282 | 2572.077000 |
| 283 | 2717.571000 |
| 284 | 2656.329000 |
| 285 | 2449.791000 |
| 286 | -0.000000 |
| 287 | 2677.569000 |
| 288 | 2338.281000 |
| 289 | 2629.071000 |
| 290 | -0.000000 |
| 291 | -0.000000 |
| 292 | 2401.027000 |
| 293 | 2544.043000 |
| 294 | 2441.228500 |
| 295 | 2327.395000 |
| 296 | 2340.692500 |
| 297 | 2498.533000 |
| 298 | 2435.521000 |
| 299 | 2451.451000 |
| 300 | 2476.939000 |
| 301 | 2548.093000 |
| 302 | 2465.611000 |
| 303 | 2459.239000 |
| 304 | -0.000000 |
| 305 | 2478.355000 |
| 306 | 2481.584500 |
| 307 | 2428.993000 |
| 308 | 2384.899000 |
| 309 | 2381.911000 |
| 310 | 2383.681000 |
| 311 | 2367.397000 |
| 312 | 2440.675000 |
| 313 | 2406.691000 |
| 314 | 2386.513000 |
| 315 | -0.000000 |
| 316 | 2722.261000 |
| 317 | 2422.975000 |
| 318 | 2563.315000 |
| 319 | 2376.800500 |
| 320 | 2397.841000 |
| 321 | 2435.011000 |
| 322 | 2467.381000 |
| 323 | 2382.973000 |
| 324 | 2712.703000 |
| 325 | 2402.089000 |
| 326 | 2370.583000 |
| 327 | 2507.383000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 328 | 2405.120500 |
| 329 | 2436.427000 |
| 330 | 2474.107000 |
| 331 | 2486.497000 |
| 332 | 2503.843000 |
| 333 | 2459.947000 |
| 334 | 2484.373000 |
| 335 | 2499.949000 |
| 336 | 2423.528500 |
| 337 | 2485.633000 |
| 338 | 2467.027000 |
| 339 | 2461.717000 |
| 340 | 2394.500500 |
| 341 | 2513.401000 |
| 342 | 2384.234500 |
| 343 | 2441.383000 |
| 344 | 2405.828500 |
| 345 | 2493.577000 |
| 346 | 2395.208500 |
| 347 | 2388.836500 |
| 348 | 2400.164500 |
| 349 | 2348.126500 |
| 350 | 2396.978500 |
| 351 | 2388.482500 |
| 352 | -0.000000 |
| 353 | -0.000000 |
| 354 | 2394.500500 |
| 355 | 2361.224500 |
| 356 | 2679.781000 |
| 357 | 2662.789000 |
| 358 | 2653.231000 |
| 359 | 2712.703000 |
| 360 | 2649.337000 |
| 361 | -0.000000 |
| 362 | 2606.857000 |
| 363 | 2763.325000 |
| 364 | 2576.413000 |
| 365 | 2645.443000 |
| 366 | 2767.219000 |
| 367 | 2713.057000 |
| 368 | 2582.077000 |
| 369 | 2727.571000 |
| 370 | 2666.329000 |
| 371 | 2459.791000 |
| 372 | -0.000000 |
| 373 | 2687.569000 |
| 374 | 2348.281000 |
| 375 | 2639.071000 |
| 376 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 377 | -0.000000 |
| 378 | 2413.027000 |
| 379 | 2556.043000 |
| 380 | 2469.313000 |
| 381 | 2339.395000 |
| 382 | 2362.632500 |
| 383 | 2510.533000 |
| 384 | 2447.521000 |
| 385 | 2463.451000 |
| 386 | 2488.939000 |
| 387 | 2560.093000 |
| 388 | 2477.611000 |
| 389 | 2471.239000 |
| 390 | -0.000000 |
| 391 | 2490.355000 |
| 392 | 2507.899000 |
| 393 | 2440.993000 |
| 394 | 2396.899000 |
| 395 | -0.000000 |
| 396 | -0.000000 |
| 397 | -0.000000 |
| 398 | 2452.675000 |
| 399 | 2418.691000 |
| 400 | 2398.513000 |
| 401 | -0.000000 |
| 402 | 2734.261000 |
| 403 | -0.000000 |
| 404 | 2575.315000 |
| 405 | 2425.800500 |
| 406 | 2409.841000 |
| 407 | 2447.011000 |
| 408 | 2479.381000 |
| 409 | 2394.973000 |
| 410 | 2724.703000 |
| 411 | 2414.089000 |
| 412 | -0.000000 |
| 413 | 2519.383000 |
| 414 | 2447.011000 |
| 415 | 2448.427000 |
| 416 | 2486.107000 |
| 417 | 2498.497000 |
| 418 | 2515.843000 |
| 419 | 2471.947000 |
| 420 | 2496.373000 |
| 421 | 2511.949000 |
| 422 | 2442.763000 |
| 423 | 2497.633000 |
| 424 | 2479.027000 |
| 425 | 2473.717000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 426 | 2443.500500 |
| 427 | 2525.401000 |
| 428 | 2433.234500 |
| 429 | 2453.383000 |
| 430 | 2454.828500 |
| 431 | 2505.577000 |
| 432 | 2443.471000 |
| 433 | 2437.836500 |
| 434 | 2449.164500 |
| 435 | 2397.126500 |
| 436 | 2425.771000 |
| 437 | 2437.482500 |
| 438 | -0.000000 |
| 439 | -0.000000 |
| 440 | 2443.500500 |
| 441 | 2410.224500 |
| 442 | 2691.781000 |
| 443 | 2674.789000 |
| 444 | 2665.231000 |
| 445 | 2724.703000 |
| 446 | 2661.337000 |
| 447 | -0.000000 |
| 448 | 2618.857000 |
| 449 | 2775.325000 |
| 450 | 2588.413000 |
| 451 | 2657.443000 |
| 452 | 2779.219000 |
| 453 | 2725.057000 |
| 454 | 2594.077000 |
| 455 | 2739.571000 |
| 456 | 2678.329000 |
| 457 | -0.000000 |
| 458 | -0.000000 |
| 459 | 2699.569000 |
| 460 | 2360.281000 |
| 461 | 2651.071000 |
| 462 | -0.000000 |
| 463 | -0.000000 |
| 464 | 2405.590500 |
| 465 | 2584.006500 |
| 466 | 2422.228500 |
| 467 | 2434.618500 |
| 468 | 2294.632500 |
| 469 | 2503.096500 |
| 470 | 2440.084500 |
| 471 | 2456.014500 |
| 472 | 2481.502500 |
| 473 | 2532.832500 |
| 474 | 2470.174500 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 475 | 2463.802500 |
| 476 | -0.000000 |
| 477 | 2482.918500 |
| 478 | 2462.584500 |
| 479 | 2434.618500 |
| 480 | 2481.148500 |
| 481 | -0.000000 |
| 482 | -0.000000 |
| 483 | -0.000000 |
| 484 | 2516.392500 |
| 485 | -0.000000 |
| 486 | 2520.796500 |
| 487 | -0.000000 |
| 488 | 2762.224500 |
| 489 | -0.000000 |
| 490 | 2548.054500 |
| 491 | 2357.800500 |
| 492 | 2532.124500 |
| 493 | -0.000000 |
| 494 | 2471.944500 |
| 495 | -0.000000 |
| 496 | 2752.666500 |
| 497 | 2536.372500 |
| 498 | -0.000000 |
| 499 | 2492.122500 |
| 500 | 2386.120500 |
| 501 | 2420.104500 |
| 502 | 2478.670500 |
| 503 | 2491.060500 |
| 504 | 2488.582500 |
| 505 | 2464.510500 |
| 506 | 2488.582500 |
| 507 | 2484.688500 |
| 508 | 2404.528500 |
| 509 | 2473.912500 |
| 510 | 2471.590500 |
| 511 | 2466.280500 |
| 512 | 2375.500500 |
| 513 | 2517.964500 |
| 514 | 2365.234500 |
| 515 | 2426.122500 |
| 516 | 2386.828500 |
| 517 | 2498.140500 |
| 518 | 2376.208500 |
| 519 | 2369.836500 |
| 520 | 2381.164500 |
| 521 | 2329.126500 |
| 522 | 2377.978500 |
| 523 | 2369.482500 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 524 | -0.000000 |
| 525 | -0.000000 |
| 526 | 2375.500500 |
| 527 | 2342.224500 |
| 528 | 2719.744500 |
| 529 | 2702.752500 |
| 530 | 2693.194500 |
| 531 | 2752.666500 |
| 532 | 2689.300500 |
| 533 | -0.000000 |
| 534 | 2591.596500 |
| 535 | 2803.288500 |
| 536 | 2561.152500 |
| 537 | 2685.406500 |
| 538 | 2807.182500 |
| 539 | 2753.020500 |
| 540 | 2586.640500 |
| 541 | 2767.534500 |
| 542 | 2706.292500 |
| 543 | -0.000000 |
| 544 | -0.000000 |
| 545 | 2727.532500 |
| 546 | 2444.530500 |
| 547 | 2679.034500 |
| 548 | -0.000000 |
| 549 | -0.000000 |
| 550 | 2390.027000 |
| 551 | 2533.043000 |
| 552 | 2446.313000 |
| 553 | 2316.395000 |
| 554 | 2381.692500 |
| 555 | 2487.533000 |
| 556 | 2424.521000 |
| 557 | 2440.451000 |
| 558 | 2465.939000 |
| 559 | 2537.093000 |
| 560 | 2454.611000 |
| 561 | 2448.239000 |
| 562 | -0.000000 |
| 563 | 2467.355000 |
| 564 | 2484.899000 |
| 565 | 2417.993000 |
| 566 | 2373.899000 |
| 567 | 2370.911000 |
| 568 | 2372.681000 |
| 569 | 2356.397000 |
| 570 | 2429.675000 |
| 571 | 2395.691000 |
| 572 | 2375.513000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 573 | -0.000000 |
| 574 | 2711.261000 |
| 575 | 2411.975000 |
| 576 | 2552.315000 |
| 577 | 2417.800500 |
| 578 | 2386.841000 |
| 579 | 2424.011000 |
| 580 | 2456.381000 |
| 581 | 2371.973000 |
| 582 | 2701.703000 |
| 583 | 2391.089000 |
| 584 | 2359.583000 |
| 585 | 2496.383000 |
| 586 | 2424.011000 |
| 587 | 2425.427000 |
| 588 | 2463.107000 |
| 589 | 2475.497000 |
| 590 | 2492.843000 |
| 591 | 2448.947000 |
| 592 | 2473.373000 |
| 593 | 2488.949000 |
| 594 | 2419.763000 |
| 595 | 2474.633000 |
| 596 | 2456.027000 |
| 597 | 2450.717000 |
| 598 | 2435.500500 |
| 599 | 2502.401000 |
| 600 | 2425.234500 |
| 601 | 2430.383000 |
| 602 | 2446.828500 |
| 603 | 2482.577000 |
| 604 | 2420.471000 |
| 605 | 2429.836500 |
| 606 | 2441.164500 |
| 607 | 2389.126500 |
| 608 | 2402.771000 |
| 609 | 2426.843000 |
| 610 | -0.000000 |
| 611 | -0.000000 |
| 612 | 2435.500500 |
| 613 | 2402.224500 |
| 614 | 2668.781000 |
| 615 | 2651.789000 |
| 616 | 2642.231000 |
| 617 | 2701.703000 |
| 618 | 2638.337000 |
| 619 | -0.000000 |
| 620 | 2595.857000 |
| 621 | 2752.325000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 622 | 2565.413000 |
| 623 | 2634.443000 |
| 624 | 2756.219000 |
| 625 | 2702.057000 |
| 626 | 2571.077000 |
| 627 | 2716.571000 |
| 628 | 2655.329000 |
| 629 | 2448.791000 |
| 630 | -0.000000 |
| 631 | 2676.569000 |
| 632 | 2337.281000 |
| 633 | 2628.071000 |
| 634 | -0.000000 |
| 635 | -0.000000 |
| 636 | 2483.652500 |
| 637 | 2629.092500 |
| 638 | 2540.892500 |
| 639 | 2408.772500 |
| 640 | 2452.692500 |
| 641 | 2582.352500 |
| 642 | 2518.272500 |
| 643 | 2534.472500 |
| 644 | 2560.392500 |
| 645 | 2632.752500 |
| 646 | 2548.872500 |
| 647 | 2542.392500 |
| 648 | -0.000000 |
| 649 | 2561.832500 |
| 650 | 2580.132500 |
| 651 | 2512.092500 |
| 652 | 2466.792500 |
| 653 | 2464.212500 |
| 654 | 2466.012500 |
| 655 | 2449.452500 |
| 656 | 2523.972500 |
| 657 | 2489.412500 |
| 658 | 2468.892500 |
| 659 | -0.000000 |
| 660 | 2809.872500 |
| 661 | 2505.972500 |
| 662 | 2648.232500 |
| 663 | 2489.412500 |
| 664 | 2480.412500 |
| 665 | 2518.212500 |
| 666 | 2550.672500 |
| 667 | 2465.292500 |
| 668 | 2800.152500 |
| 669 | 2484.732500 |
| 670 | 2452.692500 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 671 | 2591.352500 |
| 672 | 2518.212500 |
| 673 | 2519.652500 |
| 674 | 2557.512500 |
| 675 | 2570.112500 |
| 676 | 2587.752500 |
| 677 | 2543.112500 |
| 678 | 2567.952500 |
| 679 | 2583.792500 |
| 680 | 2513.892500 |
| 681 | 2569.692500 |
| 682 | 2550.312500 |
| 683 | 2544.912500 |
| 684 | 2507.412500 |
| 685 | 2597.472500 |
| 686 | 2496.972500 |
| 687 | 2524.692500 |
| 688 | 2518.932500 |
| 689 | 2577.312500 |
| 690 | 2508.132500 |
| 691 | 2501.652500 |
| 692 | 2513.172500 |
| 693 | 2460.252500 |
| 694 | 2496.612500 |
| 695 | 2501.292500 |
| 696 | -0.000000 |
| 697 | -0.000000 |
| 698 | 2507.412500 |
| 699 | 2473.572500 |
| 700 | 2766.672500 |
| 701 | 2749.392500 |
| 702 | 2739.672500 |
| 703 | 2800.152500 |
| 704 | 2735.712500 |
| 705 | -0.000000 |
| 706 | 2692.512500 |
| 707 | 2851.632500 |
| 708 | 2661.552500 |
| 709 | 2731.752500 |
| 710 | 2855.592500 |
| 711 | 2800.512500 |
| 712 | 2667.312500 |
| 713 | 2815.272500 |
| 714 | 2752.992500 |
| 715 | 2543.412500 |
| 716 | -0.000000 |
| 717 | 2774.592500 |
| 718 | 2430.012500 |
| 719 | 2725.272500 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 720 | -0.000000 |
| 721 | -0.000000 |
| 722 | 2147.132000 |
| 723 | 2290.148000 |
| 724 | 2203.418000 |
| 725 | 2073.500000 |
| 726 | 2076.775334 |
| 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 | 2224.460000 |
| 736 | -0.000000 |
| 737 | -0.000000 |
| 738 | 2131.004000 |
| 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 | 2139.943334 |
| 750 | -0.000000 |
| 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 | 2232.602000 |
| 762 | -0.000000 |
| 763 | -0.000000 |
| 764 | 2230.478000 |
| 765 | -0.000000 |
| 766 | 2176.868000 |
| 767 | -0.000000 |
| 768 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 769 | -0.000000 |
| 770 | 2157.643334 |
| 771 | -0.000000 |
| 772 | 2147.377334 |
| 773 | 2187.488000 |
| 774 | 2168.971334 |
| 775 | -0.000000 |
| 776 | 2158.351334 |
| 777 | 2151.979334 |
| 778 | 2163.307334 |
| 779 | 2111.269334 |
| 780 | 2159.876000 |
| 781 | 2151.625334 |
| 782 | -0.000000 |
| 783 | -0.000000 |
| 784 | 2157.643334 |
| 785 | 2124.367334 |
| 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 |
| 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 | 2306.521787 |
| 809 | 2161.255787 |
| 810 | 2370.595787 |
| 811 | 2240.802500 |
| 812 | 2230.503787 |
| 813 | -0.000000 |
| 814 | -0.000000 |
| 815 | -0.000000 |
| 816 | -0.000000 |
| 817 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 818 | -0.000000 |
| 819 | -0.000000 |
| 820 | -0.000000 |
| 821 | 2390.097787 |
| 822 | -0.000000 |
| 823 | -0.000000 |
| 824 | 2302.090500 |
| 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 | 2298.159787 |
| 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 | 2386.913787 |
| 848 | -0.000000 |
| 849 | -0.000000 |
| 850 | 2374.575787 |
| 851 | -0.000000 |
| 852 | -0.000000 |
| 853 | -0.000000 |
| 854 | -0.000000 |
| 855 | -0.000000 |
| 856 | 2318.059787 |
| 857 | -0.000000 |
| 858 | 2306.517787 |
| 859 | 2307.715787 |
| 860 | 2330.795787 |
| 861 | -0.000000 |
| 862 | 2318.855787 |
| 863 | 2311.691787 |
| 864 | 2324.427787 |
| 865 | 2265.921787 |
| 866 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 867 | 2311.293787 |
| 868 | -0.000000 |
| 869 | -0.000000 |
| 870 | 2318.059787 |
| 871 | 2280.647787 |
| 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 | 6737.186134 |
| 895 | 7295.618134 |
| 896 | 6789.262134 |
| 897 | 6828.042134 |
| 898 | 6384.370134 |
| 899 | 7047.898134 |
| 900 | 6850.674134 |
| 901 | 6900.534134 |
| 902 | 6980.310134 |
| 903 | 7140.970134 |
| 904 | -0.000000 |
| 905 | 6924.910134 |
| 906 | -0.000000 |
| 907 | 6984.742134 |
| 908 | 6915.574134 |
| 909 | 6828.042134 |
| 910 | 6979.202134 |
| 911 | -0.000000 |
| 912 | 7094.434134 |
| 913 | 7043.466134 |
| 914 | 7083.990134 |
| 915 | 7166.454134 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 916 | 7103.298134 |
| 917 | -0.000000 |
| 918 | 7858.954134 |
| 919 | -0.000000 |
| 920 | 7188.614134 |
| 921 | 6587.606134 |
| 922 | 7138.754134 |
| 923 | 7255.094134 |
| 924 | 6950.394134 |
| 925 | 7092.218134 |
| 926 | 7829.038134 |
| 927 | 7152.050134 |
| 928 | 7053.438134 |
| 929 | 7013.550134 |
| 930 | 6676.246134 |
| 931 | 6782.614134 |
| 932 | 6971.446134 |
| 933 | 7010.226134 |
| 934 | 7002.470134 |
| 935 | -0.000000 |
| 936 | 7002.470134 |
| 937 | 6990.282134 |
| 938 | 6733.862134 |
| 939 | 6951.030134 |
| 940 | 6949.286134 |
| 941 | 6932.666134 |
| 942 | 6643.006134 |
| 943 | 7094.434134 |
| 944 | 6610.874134 |
| 945 | 6801.450134 |
| 946 | 6678.462134 |
| 947 | 7032.386134 |
| 948 | 6645.222134 |
| 949 | 6625.278134 |
| 950 | 6660.734134 |
| 951 | 6497.858134 |
| 952 | 6650.762134 |
| 953 | 6624.170134 |
| 954 | -0.000000 |
| 955 | -0.000000 |
| 956 | 6643.006134 |
| 957 | 6538.854134 |
| 958 | 7725.994134 |
| 959 | 7672.810134 |
| 960 | -0.000000 |
| 961 | 7829.038134 |
| 962 | 7630.706134 |
| 963 | -0.000000 |
| 964 | 7324.898134 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 965 | 7987.482134 |
| 966 | 7229.610134 |
| 967 | 7618.518134 |
| 968 | -0.000000 |
| 969 | 7830.146134 |
| 970 | 7309.386134 |
| 971 | 7875.574134 |
| 972 | 7683.890134 |
| 973 | -0.000000 |
| 974 | -0.000000 |
| 975 | 7750.370134 |
| 976 | 6859.066134 |
| 977 | 7598.574134 |
| 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 | 3562.488000 |
| 987 | 3586.428000 |
| 988 | 3624.732000 |
| 989 | 3731.664000 |
| 990 | 3607.708000 |
| 991 | 3598.132000 |
| 992 | -0.000000 |
| 993 | 3626.860000 |
| 994 | 3655.232000 |
| 995 | 3554.684000 |
| 996 | 3486.412000 |
| 997 | 3483.928000 |
| 998 | 3486.588000 |
| 999 | 3462.116000 |
| 1000 | 3572.240000 |
| 1001 | 3521.168000 |
| 1002 | 3490.844000 |
| 1003 | -0.000000 |
| 1004 | 3993.408000 |
| 1005 | -0.000000 |
| 1006 | 3754.540000 |
| 1007 | 3558.940000 |
| 1008 | 3507.868000 |
| 1009 | 3563.728000 |
| 1010 | 3610.368000 |
| 1011 | 3485.524000 |
| 1012 | 3979.044000 |
| 1013 | 3514.252000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 1014 | 3466.904000 |
| 1015 | 3670.484000 |
| 1016 | 3563.728000 |
| 1017 | 3565.856000 |
| 1018 | 3620.476000 |
| 1019 | 3639.096000 |
| 1020 | 3665.164000 |
| 1021 | 3599.196000 |
| 1022 | 3635.904000 |
| 1023 | 3659.312000 |
| 1024 | 3557.344000 |
| 1025 | 3639.804000 |
| 1026 | 3609.836000 |
| 1027 | 3601.856000 |
| 1028 | 3673.144000 |
| 1029 | 3679.528000 |
| 1030 | 3657.716000 |
| 1031 | 3573.304000 |
| 1032 | 3621.184000 |
| 1033 | 3649.736000 |
| 1034 | 3558.408000 |
| 1035 | 3596.180000 |
| 1036 | 3681.656000 |
| 1037 | 3584.476000 |
| 1038 | 3531.808000 |
| 1039 | 3567.984000 |
| 1040 | -0.000000 |
| 1041 | -0.000000 |
| 1042 | 3673.144000 |
| 1043 | 3580.752000 |
| 1044 | 3929.568000 |
| 1045 | 3904.032000 |
| 1046 | 3889.668000 |
| 1047 | 3979.044000 |
| 1048 | 3883.816000 |
| 1049 | -0.000000 |
| 1050 | 3819.976000 |
| 1051 | 4055.120000 |
| 1052 | 3774.224000 |
| 1053 | 3877.964000 |
| 1054 | -0.000000 |
| 1055 | 3979.576000 |
| 1056 | 3782.736000 |
| 1057 | 4001.388000 |
| 1058 | -0.000000 |
| 1059 | -0.000000 |
| 1060 | -0.000000 |
| 1061 | 3941.272000 |
| 1062 | 3433.388000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 1063 | 3868.388000 |
| 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 | 3560.488000 |
| 1073 | 3584.428000 |
| 1074 | 3622.732000 |
| 1075 | -0.000000 |
| 1076 | 3605.708000 |
| 1077 | 3596.132000 |
| 1078 | -0.000000 |
| 1079 | 3624.860000 |
| 1080 | 3653.232000 |
| 1081 | 3552.684000 |
| 1082 | 3484.412000 |
| 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 |
| 1094 | 3505.868000 |
| 1095 | 3561.728000 |
| 1096 | 3608.368000 |
| 1097 | 3483.524000 |
| 1098 | -0.000000 |
| 1099 | 3512.252000 |
| 1100 | 3464.904000 |
| 1101 | 3668.484000 |
| 1102 | 3561.728000 |
| 1103 | 3563.856000 |
| 1104 | 3618.476000 |
| 1105 | 3637.096000 |
| 1106 | 3663.164000 |
| 1107 | 3597.196000 |
| 1108 | 3633.904000 |
| 1109 | 3657.312000 |
| 1110 | -0.000000 |
| 1111 | -0.000000 |

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| Coordenada y | Valor y |
|--------------|-------------|
| 1112 | 3607.836000 |
| 1113 | 3599.856000 |
| 1114 | 3671.144000 |
| 1115 | 3677.528000 |
| 1116 | 3655.716000 |
| 1117 | 3571.304000 |
| 1118 | 3619.184000 |
| 1119 | 3647.736000 |
| 1120 | 3556.408000 |
| 1121 | -0.000000 |
| 1122 | 3679.656000 |
| 1123 | 3582.476000 |
| 1124 | 3529.808000 |
| 1125 | 3565.984000 |
| 1126 | -0.000000 |
| 1127 | -0.000000 |
| 1128 | 3671.144000 |
| 1129 | 3578.752000 |
| 1130 | -0.000000 |
| 1131 | 3902.032000 |
| 1132 | -0.000000 |
| 1133 | -0.000000 |
| 1134 | 3881.816000 |
| 1135 | -0.000000 |
| 1136 | 3817.976000 |
| 1137 | -0.000000 |
| 1138 | 3772.224000 |
| 1139 | 3875.964000 |
| 1140 | -0.000000 |
| 1141 | 3977.576000 |
| 1142 | 3780.736000 |
| 1143 | 3999.388000 |
| 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 ship12s.
- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.