

Relatório de Alinhamento Vertical por Estaca

PROJETO PERFIL

| Estaca | Cota |
|---------------|---------|
| 0+0.000 | 0.000 |
| 0+9.393 PC | 284.205 |
| 1+0.000 | 284.458 |
| 2+0.000 | 284.936 |
| 3+0.000 | 285.414 |
| 4+0.000 | 285.892 |
| 5+0.000 | 286.371 |
| 6+0.000 | 286.847 |
| 7+0.000 | 287.310 |
| 8+0.000 | 287.760 |
| 9+0.000 | 288.194 |
| 10+0.000 | 288.614 |
| 10+2.868 PCR | 288.673 |
| 11+0.000 | 289.020 |
| 12+0.000 | 289.411 |
| 13+0.000 | 289.788 |
| 14+0.000 | 290.150 |
| 15+0.000 | 290.498 |
| 16+0.000 | 290.833 |
| 17+0.000 | 291.167 |
| 18+0.000 | 291.500 |
| 18+1.803 PCR | 291.530 |
| 19+0.000 | 291.833 |
| 20+0.000 | 292.167 |
| 21+0.000 | 292.500 |
| 22+0.000 | 292.833 |
| 23+0.000 | 293.167 |
| 24+0.000 | 293.500 |
| 25+0.000 | 293.833 |
| 26+0.000 | 294.167 |
| 27+0.000 | 294.500 |
| 28+0.000 | 294.833 |
| 28+4.051 PT | 294.901 |
| 29+0.000 | 295.167 |
| 30+0.000 | 295.500 |
| 31+0.000 | 295.833 |
| 31+4.380 PC | 295.906 |
| 32+0.000 | 296.167 |
| 33+0.000 | 296.500 |
| 33+0.793 PT | 296.513 |
| 34+0.000 | 296.833 |
| 35+0.000 | 297.174 |
| 36+0.000 | 297.529 |
| 37+0.000 | 297.898 |
| 37+2.984 PC | 297.954 |
| 38+0.000 | 298.282 |
| 39+0.000 | 298.680 |
| 40+0.000 | 299.092 |
| 40+17.635 PCR | 299.468 |
| 41+0.000 | 299.519 |
| 42+0.000 | 299.961 |
| 43+0.000 | 300.416 |
| 44+0.000 | 300.886 |
| 45+0.000 | 301.364 |
| 46+0.000 | 301.841 |
| 47+0.000 | 302.318 |
| 48+0.000 | 302.795 |
| 49+0.000 | 303.273 |
| 49+17.060 PCC | 303.680 |
| 50+0.000 | 303.750 |
| 51+0.000 | 304.227 |
| 51+15.844 PCC | 304.605 |
| 52+0.000 | 304.705 |
| 53+0.000 | 305.182 |
| 54+0.000 | 305.659 |
| 55+0.000 | 306.136 |
| 56+0.000 | 306.614 |
| 57+0.000 | 307.059 |
| 58+0.000 | 307.439 |
| 59+0.000 | 307.756 |
| 60+0.000 | 308.008 |
| 61+0.000 | 308.195 |
| 62+0.000 | 308.318 |
| 62+9.723 PCR | 308.355 |
| 63+0.000 | 308.377 |

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| 64+0.000 | 308.371 |
| 65+0.000 | 308.301 |
| 66+0.000 | 308.167 |
| 67+0.000 | 308.000 |
| 68+0.000 | 307.833 |
| 69+0.000 | 307.667 |
| 70+0.000 | 307.500 |
| 71+0.000 | 307.333 |
| 71+13.948 PCR | 307.217 |
| 72+0.000 | 307.167 |
| 73+0.000 | 307.000 |
| 74+0.000 | 306.833 |
| 75+0.000 | 306.667 |
| 76+0.000 | 306.500 |
| 77+0.000 | 306.333 |
| 78+0.000 | 306.167 |
| 78+11.209 PT | 306.073 |
| 79+0.000 | 306.000 |
| 80+0.000 | 305.833 |
| 81+0.000 | 305.667 |
| 82+0.000 | 305.500 |
| 83+0.000 | 305.333 |
| 84+0.000 | 305.167 |
| 85+0.000 | 305.000 |
| 86+0.000 | 304.833 |
| 87+0.000 | 304.667 |
| 88+0.000 | 304.500 |
| 89+0.000 | 304.333 |
| 89+14.574 PC | 304.212 |
| 90+0.000 | 304.167 |
| 91+0.000 | 304.000 |
| 92+0.000 | 303.833 |
| 93+0.000 | 303.667 |
| 93+13.272 PT | 303.556 |
| 94+0.000 | 303.500 |
| 95+0.000 | 303.333 |
| 96+0.000 | 303.167 |
| 97+0.000 | 303.000 |
| 98+0.000 | 302.833 |
| 98+15.381 PC | 302.705 |
| 99+0.000 | 302.667 |
| 100+0.000 | 302.500 |
| 101+0.000 | 302.333 |
| 102+0.000 | 302.167 |
| 102+14.445 PCC | 302.046 |
| 103+0.000 | 302.000 |
| 104+0.000 | 301.833 |
| 105+0.000 | 301.667 |
| 106+0.000 | 301.500 |
| 107+0.000 | 301.333 |
| 108+0.000 | 301.177 |
| 109+0.000 | 301.040 |
| 110+0.000 | 300.923 |
| 111+0.000 | 300.826 |
| 112+0.000 | 300.749 |
| 112+10.203 PCR | 300.717 |
| 113+0.000 | 300.691 |
| 114+0.000 | 300.654 |
| 114+18.243 PCC | 300.637 |
| 115+0.000 | 300.637 |
| 116+0.000 | 300.639 |
| 116+14.240 PT | 300.653 |
| 117+0.000 | 300.661 |
| 117+1.345 PC | 300.663 |
| 117+3.264 PT | 300.667 |
| 118+0.000 | 300.694 |
| 119+0.000 | 300.726 |
| 119+0.782 PC | 300.727 |
| 120+0.000 | 300.758 |
| 121+0.000 | 300.791 |
| 122+0.000 | 300.825 |
| 123+0.000 | 300.860 |
| 124+0.000 | 300.896 |
| 124+4.993 PCR | 300.905 |
| 125+0.000 | 300.933 |
| 125+12.924 PT | 300.958 |
| 126+0.000 | 300.971 |
| 127+0.000 | 301.011 |
| 128+0.000 | 301.051 |
| 129+0.000 | 301.093 |
| 130+0.000 | 301.136 |

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| 131+0.000 | 301.180 |
| 131+12.409 PC | 301.207 |
| 132+0.000 | 301.224 |
| 132+16.299 PCR | 301.262 |
| 133+0.000 | 301.270 |
| 134+0.000 | 301.318 |
| 135+0.000 | 301.366 |
| 136+0.000 | 301.415 |
| 136+5.214 PCC | 301.427 |
| 137+0.000 | 301.463 |
| 138+0.000 | 301.512 |
| 139+0.000 | 301.561 |
| 140+0.000 | 301.610 |
| 140+4.100 PT | 301.620 |
| 141+0.000 | 301.659 |
| 142+0.000 | 301.707 |
| 143+0.000 | 301.756 |
| 143+18.278 PC | 301.801 |
| 144+0.000 | 301.805 |
| 144+14.030 PT | 301.839 |
| 145+0.000 | 301.854 |
| 146+0.000 | 301.902 |
| 147+0.000 | 301.951 |
| 147+10.467 PC | 301.977 |
| 148+0.000 | 302.000 |
| 148+16.429 PT | 301.828 |
| 149+0.000 | 301.791 |
| 150+0.000 | 301.582 |
| 151+0.000 | 301.373 |
| 152+0.000 | 301.165 |
| 153+0.000 | 300.956 |
| 153+17.280 PC | 300.775 |
| 154+0.000 | 300.747 |
| 154+0.893 PT | 300.738 |
| 155+0.000 | 300.538 |
| 155+19.287 PC | 300.337 |
| 156+0.000 | 300.329 |
| 156+0.778 PT | 300.321 |
| 157+0.000 | 300.120 |
| 157+12.783 PC | 299.987 |
| 158+0.000 | 299.912 |
| 158+11.161 PT | 299.795 |
| 159+0.000 | 299.703 |
| 160+0.000 | 299.494 |
| 160+1.885 PC | 299.474 |
| 160+5.982 PT | 299.431 |
| 161+0.000 | 299.285 |
| 161+19.166 PC | 299.085 |
| 162+0.000 | 299.076 |
| 162+7.120 PT | 299.002 |
| 163+0.000 | 298.867 |
| 164+0.000 | 298.656 |
| 164+16.950 PC | 298.470 |
| 165+0.000 | 298.437 |
| 165+5.178 PT | 298.379 |
| 166+0.000 | 298.210 |
| 167+0.000 | 297.976 |
| 168+0.000 | 297.734 |
| 169+0.000 | 297.485 |
| 169+10.870 PC | 297.347 |
| 170+0.000 | 297.229 |
| 170+13.860 PT | 297.047 |
| 171+0.000 | 296.965 |
| 171+6.736 PC | 296.875 |
| 172+0.000 | 296.694 |
| 173+0.000 | 296.415 |
| 173+3.413 PT | 296.367 |
| 174+0.000 | 296.132 |
| 175+0.000 | 295.849 |
| 176+0.000 | 295.566 |
| 176+13.217 PC | 295.379 |
| 177+0.000 | 295.283 |
| 178+0.000 | 295.000 |
| 178+13.519 PT | 294.944 |
| 179+0.000 | 294.917 |
| 179+18.090 PC | 294.841 |
| 179+19.055 PT | 294.837 |
| 180+0.000 | 294.833 |
| 181+0.000 | 294.750 |
| 181+12.119 PC | 294.700 |
| 181+14.909 PT | 294.688 |

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| 182+0.000 | 294.667 |
| 183+0.000 | 294.583 |
| 184+0.000 | 294.500 |
| 184+0.756 PC | 294.497 |
| 185+0.000 | 294.417 |
| 186+0.000 | 294.333 |
| 187+0.000 | 294.250 |
| 188+0.000 | 294.167 |
| 188+1.941 PT | 294.159 |
| 189+0.000 | 294.083 |
| 190+0.000 | 294.000 |
| 190+16.136 PC | 293.982 |
| 191+0.000 | 293.978 |
| 191+9.057 PT | 293.968 |
| 192+0.000 | 293.956 |
| 193+0.000 | 293.935 |
| 193+9.978 PC | 293.924 |
| 194+0.000 | 293.913 |
| 194+16.471 PCR | 293.895 |
| 195+0.000 | 293.891 |
| 196+0.000 | 293.869 |
| 197+0.000 | 293.847 |
| 198+0.000 | 293.825 |
| 199+0.000 | 293.804 |
| 200+0.000 | 293.782 |
| 201+0.000 | 293.760 |
| 201+19.661 PCR | 293.738 |
| 202+0.000 | 293.738 |
| 203+0.000 | 293.716 |
| 204+0.000 | 293.694 |
| 205+0.000 | 293.673 |
| 206+0.000 | 293.651 |
| 207+0.000 | 293.629 |
| 208+0.000 | 293.607 |
| 209+0.000 | 293.585 |
| 210+0.000 | 293.564 |
| 211+0.000 | 293.542 |
| 211+8.650 PT | 293.532 |
| 212+0.000 | 293.520 |
| 213+0.000 | 293.498 |
| 214+0.000 | 293.476 |
| 215+0.000 | 293.454 |
| 216+0.000 | 293.433 |
| 216+14.957 PC | 293.416 |
| 217+0.000 | 293.411 |
| 218+0.000 | 293.389 |
| 219+0.000 | 293.367 |
| 220+0.000 | 293.345 |
| 220+16.613 PT | 293.327 |
| 221+0.000 | 293.323 |
| 221+18.941 PC | 293.303 |
| 221+19.439 PT | 293.302 |
| 222+0.000 | 293.302 |
| 223+0.000 | 293.280 |
| 223+8.573 PC | 293.270 |
| 224+0.000 | 293.258 |
| 225+0.000 | 293.236 |
| 226+0.000 | 293.214 |
| 226+17.971 PT | 293.195 |
| 227+0.000 | 293.193 |
| 227+12.906 PC | 293.178 |
| 228+0.000 | 293.171 |
| 228+16.045 PT | 293.153 |
| 229+0.000 | 293.149 |
| 230+0.000 | 293.130 |
| 230+2.380 PC | 293.134 |
| 230+6.551 PT | 293.146 |
| 231+0.000 | 293.245 |
| 231+10.909 PC | 293.391 |
| 232+0.000 | 293.553 |
| 232+18.444 PT | 293.892 |
| 233+0.000 | 293.921 |
| 234+0.000 | 294.288 |
| 234+0.786 PC | 294.303 |
| 234+8.597 PT | 294.447 |
| 235+0.000 | 294.656 |
| 236+0.000 | 295.024 |
| 236+4.920 PC | 295.114 |
| 236+5.937 PT | 295.133 |
| 237+0.000 | 295.390 |
| 238+0.000 | 295.691 |

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| 238+5.854 PC | 295.759 |
| 239+0.000 | 295.889 |
| 240+0.000 | 295.985 |
| 241+0.000 | 295.980 |
| 242+0.000 | 295.904 |
| 243+0.000 | 295.827 |
| 244+0.000 | 295.749 |
| 245+0.000 | 295.671 |
| 246+0.000 | 295.593 |
| 246+5.129 PCC | 295.574 |
| 247+0.000 | 295.516 |
| 248+0.000 | 295.438 |
| 249+0.000 | 295.360 |
| 250+0.000 | 295.282 |
| 251+0.000 | 295.205 |
| 252+0.000 | 295.127 |
| 253+0.000 | 295.049 |
| 254+0.000 | 294.971 |
| 255+0.000 | 294.894 |
| 256+0.000 | 294.816 |
| 257+0.000 | 294.738 |
| 258+0.000 | 294.660 |
| 259+0.000 | 294.583 |
| 260+0.000 | 294.505 |
| 261+0.000 | 294.361 |
| 261+1.346 PCC | 294.347 |
| 261+14.680 PCR | 294.208 |
| 262+0.000 | 294.152 |
| 263+0.000 | 293.942 |
| 264+0.000 | 293.733 |
| 265+0.000 | 293.523 |
| 266+0.000 | 293.314 |
| 267+0.000 | 293.104 |
| 268+0.000 | 292.895 |
| 269+0.000 | 292.685 |
| 270+0.000 | 292.476 |
| 270+0.839 PCC | 292.467 |
| 270+9.316 PT | 292.378 |
| 271+0.000 | 292.266 |
| 272+0.000 | 292.057 |
| 273+0.000 | 291.847 |
| 274+0.000 | 291.638 |
| 275+0.000 | 291.428 |
| 275+15.896 PC | 291.262 |
| 276+0.000 | 291.219 |
| 277+0.000 | 291.009 |
| 278+0.000 | 290.800 |
| 278+17.109 PT | 290.620 |
| 279+0.000 | 290.590 |
| 280+0.000 | 290.381 |
| 280+6.779 PC | 290.310 |
| 281+0.000 | 290.171 |
| 281+17.276 PT | 289.990 |
| 282+0.000 | 289.962 |
| 283+0.000 | 289.752 |
| 284+0.000 | 289.542 |
| 285+0.000 | 289.333 |
| 286+0.000 | 289.123 |
| 287+0.000 | 288.914 |
| 288+0.000 | 288.704 |
| 289+0.000 | 288.495 |
| 289+0.991 PC | 288.485 |
| 290+0.000 | 288.285 |
| 290+0.621 PT | 288.279 |
| 291+0.000 | 288.076 |
| 292+0.000 | 287.866 |
| 293+0.000 | 287.657 |
| 293+11.853 PC | 287.533 |
| 294+0.000 | 287.447 |
| 295+0.000 | 287.238 |
| 295+14.983 PT | 287.081 |
| 296+0.000 | 287.028 |
| 297+0.000 | 286.819 |
| 298+0.000 | 286.609 |
| 299+0.000 | 286.400 |
| 299+15.395 PC | 286.239 |
| 300+0.000 | 286.190 |
| 300+6.034 PT | 286.127 |
| 301+0.000 | 285.981 |
| 302+0.000 | 285.771 |
| 303+0.000 | 285.562 |

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| 304+0.000 | 285.352 |
| 305+0.000 | 285.143 |
| 306+0.000 | 284.933 |
| 307+0.000 | 284.724 |
| 308+0.000 | 284.514 |
| 309+0.000 | 284.305 |
| 310+0.000 | 284.095 |
| 311+0.000 | 283.886 |
| 312+0.000 | 283.676 |
| 313+0.000 | 283.467 |
| 314+0.000 | 283.257 |
| 315+0.000 | 283.048 |
| 315+18.501 PC | 282.854 |
| 316+0.000 | 282.838 |
| 317+0.000 | 282.629 |
| 317+3.809 PT | 282.589 |
| 318+0.000 | 282.419 |
| 319+0.000 | 282.210 |
| 319+11.773 PC | 282.086 |
| 320+0.000 | 282.000 |
| 320+1.179 PT | 281.986 |
| 321+0.000 | 281.762 |
| 322+0.000 | 281.523 |
| 322+9.931 PC | 281.405 |
| 322+15.649 PT | 281.337 |
| 323+0.000 | 281.285 |
| 324+0.000 | 281.046 |
| 325+0.000 | 280.808 |
| 326+0.000 | 280.569 |
| 326+2.641 PC | 280.538 |
| 326+17.302 PT | 280.363 |
| 327+0.000 | 280.331 |
| 328+0.000 | 280.093 |
| 329+0.000 | 279.854 |
| 329+3.549 PC | 279.812 |
| 329+16.559 PT | 279.657 |
| 330+0.000 | 279.616 |
| 331+0.000 | 279.377 |
| 332+0.000 | 279.139 |
| 332+0.997 PC | 279.127 |
| 333+0.000 | 278.900 |
| 334+0.000 | 278.662 |
| 334+5.350 PT | 278.598 |
| 335+0.000 | 278.424 |
| 336+0.000 | 278.185 |
| 337+0.000 | 277.947 |
| 338+0.000 | 277.708 |
| 339+0.000 | 277.470 |
| 339+11.939 PC | 277.328 |
| 339+14.715 PT | 277.294 |
| 340+0.000 | 277.231 |
| 341+0.000 | 276.993 |
| 342+0.000 | 276.755 |
| 343+0.000 | 276.516 |
| 344+0.000 | 276.278 |
| 344+8.406 PC | 276.177 |
| 345+0.000 | 276.039 |
| 345+13.206 PT | 275.882 |
| 346+0.000 | 275.801 |
| 347+0.000 | 275.562 |
| 348+0.000 | 275.324 |
| 349+0.000 | 275.086 |
| 349+2.158 PC | 275.060 |
| 349+8.527 PT | 274.984 |
| 350+0.000 | 274.847 |
| 351+0.000 | 274.609 |
| 351+12.895 PC | 274.455 |
| 352+0.000 | 274.370 |
| 352+0.373 PT | 274.366 |
| 353+0.000 | 274.132 |
| 354+0.000 | 273.893 |
| 355+0.000 | 273.655 |
| 356+0.000 | 273.417 |
| 356+13.598 PC | 273.254 |
| 357+0.000 | 273.178 |
| 358+0.000 | 272.941 |
| 359+0.000 | 272.821 |
| 360+0.000 | 272.776 |
| 360+16.396 PT | 272.739 |
| 361+0.000 | 272.730 |
| 362+0.000 | 272.685 |

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| 363+0.000 | 272.640 |
| 364+0.000 | 272.595 |
| 365+0.000 | 272.550 |
| 366+0.000 | 272.505 |
| 366+11.222 PC | 272.480 |
| 366+16.799 PT | 272.467 |
| 367+0.000 | 272.460 |
| 368+0.000 | 272.415 |
| 369+0.000 | 272.370 |
| 370+0.000 | 272.325 |
| 370+9.923 PC | 272.303 |
| 371+0.000 | 272.280 |
| 371+3.641 PT | 272.272 |
| 372+0.000 | 272.235 |
| 372+19.812 PC | 272.190 |
| 373+0.000 | 272.190 |
| 373+0.521 PT | 272.189 |
| 374+0.000 | 272.145 |
| 375+0.000 | 272.100 |
| 375+18.925 PC | 272.057 |
| 376+0.000 | 272.055 |
| 376+1.550 PT | 272.051 |
| 377+0.000 | 272.010 |
| 378+0.000 | 271.964 |
| 378+19.510 PC | 271.920 |
| 379+0.000 | 271.919 |
| 380+0.000 | 271.874 |
| 380+8.341 PT | 271.856 |
| 381+0.000 | 271.829 |
| 382+0.000 | 271.784 |
| 383+0.000 | 271.739 |
| 384+0.000 | 271.694 |
| 385+0.000 | 271.649 |
| 386+0.000 | 271.604 |
| 387+0.000 | 271.559 |
| 388+0.000 | 271.514 |
| 388+17.291 PC | 271.475 |
| 389+0.000 | 271.469 |
| 389+13.034 PT | 271.439 |
| 390+0.000 | 271.424 |
| 391+0.000 | 271.379 |
| 392+0.000 | 271.334 |
| 393+0.000 | 271.289 |
| 394+0.000 | 271.243 |
| 395+0.000 | 271.198 |
| 396+0.000 | 271.153 |
| 396+3.885 PC | 271.145 |
| 396+5.119 PT | 271.142 |
| 397+0.000 | 271.108 |
| 398+0.000 | 271.063 |
| 398+3.586 PC | 271.055 |
| 398+19.643 PT | 271.019 |
| 399+0.000 | 271.018 |
| 400+0.000 | 270.973 |
| 401+0.000 | 270.928 |
| 402+0.000 | 270.883 |
| 403+0.000 | 270.838 |
| 403+13.393 PC | 270.808 |
| 404+0.000 | 270.793 |
| 405+0.000 | 270.748 |
| 405+18.132 PT | 270.707 |
| 406+0.000 | 270.703 |
| 407+0.000 | 270.658 |
| 408+0.000 | 270.613 |
| 409+0.000 | 270.568 |
| 409+15.286 PC | 270.533 |
| 409+17.061 PT | 270.529 |
| 410+0.000 | 270.523 |
| 411+0.000 | 270.449 |
| 412+0.000 | 270.346 |
| 413+0.000 | 270.243 |
| 414+0.000 | 270.141 |
| 414+7.461 PC | 270.103 |
| 415+0.000 | 270.038 |
| 416+0.000 | 269.936 |
| 416+7.088 PT | 269.899 |
| 417+0.000 | 269.833 |
| 418+0.000 | 269.730 |
| 419+0.000 | 269.628 |
| 419+13.859 PC | 269.557 |
| 420+0.000 | 269.525 |

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| 420+1.974 PT | 269.515 |
| 421+0.000 | 269.423 |
| 422+0.000 | 269.320 |
| 423+0.000 | 269.217 |
| 424+0.000 | 269.115 |
| 425+0.000 | 269.012 |
| 426+0.000 | 268.910 |
| 427+0.000 | 268.807 |
| 428+0.000 | 268.704 |
| 429+0.000 | 268.602 |
| 430+0.000 | 268.499 |
| 431+0.000 | 268.396 |
| 431+1.324 PC | 268.390 |
| 432+0.000 | 268.294 |
| 433+0.000 | 268.191 |
| 433+12.148 PT | 268.129 |
| 434+0.000 | 268.089 |
| 435+0.000 | 267.986 |
| 436+0.000 | 267.883 |
| 437+0.000 | 267.781 |
| 438+0.000 | 267.678 |
| 439+0.000 | 267.576 |
| 440+0.000 | 267.473 |
| 441+0.000 | 267.370 |
| 441+2.032 PC | 267.358 |
| 442+0.000 | 267.215 |
| 442+9.707 PCC | 267.111 |
| 443+0.000 | 266.979 |
| 444+0.000 | 266.663 |
| 444+12.191 PT | 266.430 |
| 445+0.000 | 266.265 |
| 446+0.000 | 265.786 |
| 447+0.000 | 265.226 |
| 448+0.000 | 264.585 |
| 449+0.000 | 263.880 |
| 450+0.000 | 263.169 |
| 451+0.000 | 262.458 |
| 452+0.000 | 261.766 |
| 452+6.985 PC | 261.704 |
| 453+0.000 | 261.946 |
| 453+14.114 PT | 262.240 |
| 454+0.000 | 262.363 |
| 455+0.000 | 262.780 |
| 456+0.000 | 263.198 |
| 457+0.000 | 263.615 |
| 458+0.000 | 264.032 |
| 459+0.000 | 264.449 |
| 460+0.000 | 264.867 |
| 461+0.000 | 265.284 |
| 462+0.000 | 265.701 |
| 463+0.000 | 266.118 |
| 464+0.000 | 266.536 |
| 465+0.000 | 266.953 |
| 466+0.000 | 267.370 |
| 467+0.000 | 267.788 |
| 468+0.000 | 268.205 |
| 469+0.000 | 268.622 |
| 470+0.000 | 269.039 |
| 471+0.000 | 269.457 |
| 472+0.000 | 269.874 |
| 473+0.000 | 270.291 |
| 474+0.000 | 270.708 |
| 475+0.000 | 271.126 |
| 476+0.000 | 271.539 |
| 477+0.000 | 271.888 |
| 478+0.000 | 272.154 |
| 479+0.000 | 272.335 |
| 480+0.000 | 272.433 |
| 480+13.811 PC | 272.452 |
| 481+0.000 | 272.447 |
| 481+18.185 PT | 272.387 |
| 482+0.000 | 272.377 |
| 483+0.000 | 272.224 |
| 484+0.000 | 271.986 |
| 485+0.000 | 271.665 |
| 486+0.000 | 271.264 |
| 487+0.000 | 270.842 |
| 488+0.000 | 270.431 |
| 489+0.000 | 270.236 |
| 490+0.000 | 270.343 |
| 491+0.000 | 270.667 |

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| 492+0.000 | 271.000 |
| 493+0.000 | 271.333 |
| 494+0.000 | 271.640 |
| 495+0.000 | 271.893 |
| 496+0.000 | 272.093 |
| 497+0.000 | 272.240 |
| 498+0.000 | 272.333 |
| 499+0.000 | 272.373 |
| 500+0.000 | 272.360 |
| 501+0.000 | 272.293 |
| 502+0.000 | 272.173 |
| 503+0.000 | 272.000 |
| 504+0.000 | 271.800 |
| 505+0.000 | 271.600 |
| 506+0.000 | 271.400 |
| 507+0.000 | 271.200 |
| 508+0.000 | 271.000 |
| 509+0.000 | 270.800 |
| 510+0.000 | 270.600 |
| 511+0.000 | 270.400 |
| 512+0.000 | 270.200 |
| 513+0.000 | 270.000 |
| 514+0.000 | 269.800 |
| 515+0.000 | 269.600 |
| 516+0.000 | 269.400 |
| 517+0.000 | 269.200 |
| 518+0.000 | 269.000 |
| 519+0.000 | 268.800 |
| 520+0.000 | 268.600 |
| 521+0.000 | 268.400 |
| 522+0.000 | 268.202 |
| 523+0.000 | 268.049 |
| 524+0.000 | 267.959 |
| 525+0.000 | 267.932 |
| 526+0.000 | 267.967 |
| 527+0.000 | 268.065 |
| 528+0.000 | 268.226 |
| 529+0.000 | 268.450 |
| 530+0.000 | 268.719 |
| 531+0.000 | 268.990 |
| 532+0.000 | 269.260 |
| 533+0.000 | 269.531 |
| 534+0.000 | 269.802 |
| 535+0.000 | 270.073 |
| 535+5.628 PC | 270.149 |
| 535+9.919 PT | 270.207 |
| 536+0.000 | 270.344 |
| 537+0.000 | 270.615 |
| 538+0.000 | 270.885 |
| 539+0.000 | 271.156 |
| 539+14.283 PC | 271.350 |
| 539+16.866 PT | 271.385 |
| 540+0.000 | 271.427 |
| 541+0.000 | 271.698 |
| 542+0.000 | 271.969 |
| 543+0.000 | 272.240 |
| 544+0.000 | 272.510 |
| 545+0.000 | 272.776 |
| 546+0.000 | 273.003 |
| 547+0.000 | 273.186 |
| 548+0.000 | 273.326 |
| 549+0.000 | 273.422 |
| 549+9.380 PC | 273.451 |
| 550+0.000 | 273.474 |
| 551+0.000 | 273.482 |
| 552+0.000 | 273.447 |
| 552+10.572 PT | 273.410 |
| 553+0.000 | 273.367 |
| 554+0.000 | 273.245 |
| 555+0.000 | 273.083 |
| 555+0.960 PC | 273.075 |
| 556+0.000 | 272.917 |
| 557+0.000 | 272.750 |
| 558+0.000 | 272.583 |
| 558+5.201 PT | 272.540 |
| 559+0.000 | 272.417 |
| 559+18.405 PC | 272.263 |
| 560+0.000 | 272.250 |
| 561+0.000 | 272.083 |
| 562+0.000 | 271.917 |
| 563+0.000 | 271.750 |

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| 564+0.000 | 271.583 |
| 565+0.000 | 271.417 |
| 566+0.000 | 271.250 |
| 567+0.000 | 271.083 |
| 568+0.000 | 270.917 |
| 569+0.000 | 270.750 |
| 569+10.212 PT | 270.665 |
| 570+0.000 | 270.583 |
| 571+0.000 | 270.417 |
| 572+0.000 | 270.250 |
| 573+0.000 | 270.083 |
| 574+0.000 | 269.917 |
| 574+5.739 PC | 269.869 |
| 575+0.000 | 269.743 |
| 576+0.000 | 269.516 |
| 576+7.143 PT | 269.421 |
| 577+0.000 | 269.231 |
| 578+0.000 | 268.885 |
| 579+0.000 | 268.481 |
| 580+0.000 | 268.016 |
| 581+0.000 | 267.493 |
| 582+0.000 | 266.909 |
| 582+7.927 PC | 266.662 |
| 582+12.073 PT | 266.528 |
| 583+0.000 | 266.266 |
| 584+0.000 | 265.564 |
| 585+0.000 | 264.810 |
| 585+0.213 PC | 264.801 |
| 585+13.657 PT | 264.289 |
| 586+0.000 | 264.048 |
| 587+0.000 | 263.286 |
| 588+0.000 | 262.524 |
| 588+6.030 PC | 262.294 |
| 588+7.534 PT | 262.237 |
| 589+0.000 | 261.762 |
| 589+8.290 PC | 261.446 |
| 590+0.000 | 261.000 |
| 590+10.107 PT | 260.615 |
| 591+0.000 | 260.238 |
| 592+0.000 | 259.476 |
| 592+16.080 PC | 258.864 |
| 593+0.000 | 258.714 |
| 593+1.037 PT | 258.675 |
| 593+4.756 PC | 258.533 |
| 594+0.000 | 257.952 |
| 594+13.212 PT | 257.449 |
| 595+0.000 | 257.190 |
| 596+0.000 | 256.429 |
| 597+0.000 | 255.667 |
| 598+0.000 | 254.905 |
| 599+0.000 | 254.143 |
| 599+7.405 PC | 253.861 |
| 599+9.533 PT | 253.780 |
| 600+0.000 | 253.381 |
| 601+0.000 | 252.778 |
| 602+0.000 | 252.333 |
| 603+0.000 | 251.889 |
| 603+10.940 PC | 251.646 |
| 603+12.849 PT | 251.603 |
| 604+0.000 | 251.444 |
| 605+0.000 | 251.000 |
| 606+0.000 | 250.556 |
| 607+0.000 | 250.111 |
| 608+0.000 | 249.667 |
| 609+0.000 | 249.222 |
| 609+19.501 PC | 248.525 |
| 609+19.664 PT | 248.517 |
| 610+0.000 | 248.500 |
| 611+0.000 | 247.500 |
| 612+0.000 | 246.500 |
| 613+0.000 | 245.500 |
| 614+0.000 | 244.500 |
| 615+0.000 | 243.573 |
| 615+18.186 PC | 242.855 |
| 615+18.823 PT | 242.832 |
| 616+0.000 | 242.790 |
| 616+19.045 PC | 242.180 |
| 617+0.000 | 242.153 |
| 618+0.000 | 241.661 |
| 619+0.000 | 241.314 |
| 620+0.000 | 241.112 |

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| 620+11.235 PT | 241.062 |
| 621+0.000 | 241.055 |
| 622+0.000 | 241.143 |
| 623+0.000 | 241.376 |
| 624+0.000 | 241.755 |
| 624+4.248 PC | 241.854 |
| 625+0.000 | 242.278 |
| 626+0.000 | 242.947 |
| 627+0.000 | 243.761 |
| 628+0.000 | 244.720 |
| 629+0.000 | 245.824 |
| 630+0.000 | 247.000 |
| 630+3.031 PT | 247.178 |
| 631+0.000 | 248.176 |
| 632+0.000 | 249.353 |
| 632+7.226 PC | 249.778 |
| 632+7.937 PT | 249.820 |
| 633+0.000 | 250.529 |
| 634+0.000 | 251.684 |
| 635+0.000 | 252.683 |
| 636+0.000 | 253.504 |
| 636+10.930 PC | 253.877 |
| 637+0.000 | 254.147 |
| 638+0.000 | 254.613 |
| 639+0.000 | 254.901 |
| 639+7.094 PT | 254.961 |
| 640+0.000 | 255.012 |
| 641+0.000 | 254.945 |
| 642+0.000 | 254.700 |
| 643+0.000 | 254.278 |
| 643+16.831 PC | 253.795 |
| 644+0.000 | 253.700 |
| 645+0.000 | 253.100 |
| 646+0.000 | 252.500 |
| 647+0.000 | 251.900 |
| 647+13.214 PT | 251.504 |
| 648+0.000 | 251.300 |
| 649+0.000 | 251.165 |
| 650+0.000 | 251.494 |
| 651+0.000 | 251.824 |
| 652+0.000 | 252.154 |
| 653+0.000 | 252.483 |
| 654+0.000 | 252.813 |
| 655+0.000 | 253.142 |
| 655+13.441 PC | 253.364 |
| 656+0.000 | 253.472 |
| 657+0.000 | 253.801 |
| 657+17.493 PT | 254.090 |
| 658+0.000 | 254.131 |
| 659+0.000 | 254.461 |
| 660+0.000 | 254.790 |
| 661+0.000 | 255.120 |
| 662+0.000 | 255.449 |
| 662+7.378 PC | 255.571 |
| 662+10.071 PT | 255.615 |
| 663+0.000 | 255.779 |
| 664+0.000 | 256.109 |
| 665+0.000 | 256.434 |
| 665+15.474 PC | 256.624 |
| 665+18.938 PT | 256.656 |
| 666+0.000 | 256.665 |
| 666+19.833 PC | 256.765 |
| 667+0.000 | 256.766 |
| 668+0.000 | 256.737 |
| 669+0.000 | 256.578 |
| 669+14.777 PT | 256.378 |
| 670+0.000 | 256.290 |
| 671+0.000 | 255.871 |
| 671+15.758 PC | 255.451 |
| 671+18.578 PT | 255.367 |
| 672+0.000 | 255.324 |
| 673+0.000 | 254.646 |
| 674+0.000 | 253.838 |
| 674+9.769 PC | 253.396 |
| 675+0.000 | 252.905 |
| 676+0.000 | 251.991 |
| 676+9.307 PT | 251.694 |
| 677+0.000 | 251.475 |
| 677+16.326 PC | 251.395 |
| 678+0.000 | 251.419 |
| 679+0.000 | 251.823 |

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| 680+0.000 | 252.686 |
| 680+3.582 PT | 252.889 |
| 681+0.000 | 253.947 |
| 682+0.000 | 255.263 |
| 682+15.985 PC | 256.315 |
| 683+0.000 | 256.579 |
| 683+1.395 PT | 256.671 |
| 683+8.184 PC | 257.117 |
| 684+0.000 | 257.895 |
| 684+12.063 PT | 258.688 |
| 685+0.000 | 259.211 |
| 686+0.000 | 260.526 |
| 686+16.632 PC | 261.620 |
| 687+0.000 | 261.842 |
| 688+0.000 | 263.158 |
| 689+0.000 | 264.474 |
| 690+0.000 | 265.789 |
| 690+18.462 PT | 267.004 |
| 691+0.000 | 267.105 |
| 692+0.000 | 268.421 |
| 693+0.000 | 269.737 |
| 693+17.535 PC | 270.873 |
| 694+0.000 | 271.028 |
| 695+0.000 | 272.235 |
| 695+12.484 PT | 272.945 |
| 696+0.000 | 273.356 |
| 696+16.036 PC | 274.192 |
| 697+0.000 | 274.389 |
| 697+0.453 PT | 274.412 |
| 698+0.000 | 275.336 |
| 698+14.713 PC | 275.977 |
| 699+0.000 | 276.196 |
| 699+3.325 PT | 276.331 |
| 700+0.000 | 276.969 |
| 700+14.816 PC | 277.486 |
| 701+0.000 | 277.658 |
| 702+0.000 | 278.323 |
| 702+2.674 PT | 278.412 |
| 703+0.000 | 278.987 |
| 703+10.581 PC | 279.339 |
| 703+14.007 PT | 279.453 |
| 704+0.000 | 279.652 |
| 705+0.000 | 280.317 |
| 705+9.260 PC | 280.624 |
| 705+9.329 PT | 280.627 |
| 706+0.000 | 280.981 |
| 707+0.000 | 281.646 |
| 708+0.000 | 282.310 |
| 708+13.365 PC | 282.754 |
| 709+0.000 | 282.975 |
| 710+0.000 | 283.639 |
| 711+0.000 | 284.304 |
| 712+0.000 | 284.968 |
| 713+0.000 | 285.632 |
| 714+0.000 | 286.227 |
| 714+3.734 PT | 286.326 |
| 715+0.000 | 286.716 |
| 716+0.000 | 287.099 |
| 717+0.000 | 287.381 |
| 717+13.120 PC | 287.548 |
| 717+16.721 PT | 287.594 |
| 718+0.000 | 287.636 |
| 719+0.000 | 287.890 |
| 720+0.000 | 288.145 |
| 720+14.842 PC | 288.334 |
| 720+16.883 PT | 288.360 |
| 721+0.000 | 288.400 |
| 722+0.000 | 288.654 |
| 723+0.000 | 288.909 |
| 724+0.000 | 289.163 |
| 724+12.636 PC | 289.324 |
| 725+0.000 | 289.418 |
| 726+0.000 | 289.672 |
| 727+0.000 | 289.927 |
| 727+15.818 PT | 290.128 |
| 728+0.000 | 290.181 |
| 729+0.000 | 290.436 |
| 729+11.231 PC | 290.579 |
| 730+0.000 | 290.691 |
| 730+4.561 PT | 290.749 |
| 731+0.000 | 290.945 |

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| 732+0.000 | 291.200 |
| 733+0.000 | 291.474 |
| 733+18.108 PC | 291.788 |
| 733+18.220 PT | 291.790 |
| 734+0.000 | 291.825 |
| 735+0.000 | 292.255 |
| 735+18.749 PC | 292.732 |
| 736+0.000 | 292.766 |
| 736+9.355 PT | 293.032 |
| 737+0.000 | 293.357 |
| 737+4.066 PC | 293.487 |
| 737+7.651 PT | 293.604 |
| 738+0.000 | 294.027 |
| 739+0.000 | 294.778 |
| 740+0.000 | 295.609 |
| 740+14.867 PC | 296.278 |
| 741+0.000 | 296.519 |
| 741+2.135 PT | 296.621 |
| 741+9.917 PC | 297.001 |
| 742+0.000 | 297.510 |
| 743+0.000 | 298.581 |
| 743+15.923 PT | 299.490 |
| 744+0.000 | 299.732 |
| 744+8.039 PC | 300.217 |
| 744+16.555 PT | 300.745 |
| 745+0.000 | 300.962 |
| 746+0.000 | 302.273 |
| 746+1.203 PC | 302.354 |
| 746+3.252 PT | 302.494 |
| 747+0.000 | 303.664 |
| 748+0.000 | 305.134 |
| 748+2.501 PC | 305.324 |
| 748+3.065 PT | 305.367 |
| 748+17.800 PC | 306.510 |
| 749+0.000 | 306.685 |
| 750+0.000 | 308.316 |
| 750+8.562 PT | 309.038 |
| 751+0.000 | 310.026 |
| 752+0.000 | 311.817 |
| 753+0.000 | 313.688 |
| 754+0.000 | 315.635 |
| 754+14.218 PC | 317.033 |
| 754+16.687 PT | 317.276 |
| 755+0.000 | 317.602 |
| 756+0.000 | 319.568 |
| 757+0.000 | 321.217 |
| 757+2.294 PC | 321.366 |
| 757+4.727 PT | 321.516 |
| 758+0.000 | 322.245 |
| 759+0.000 | 322.735 |
| 15+219.93 | 322.885 |