| | | |
|---|---|---|
| Ganancia antena tx | 5 | |
| Campo minimo Servicio | 42,395757 | |
| Campo minimo proteccion | 30,375157 | |
| Limite de Perfil | 15,00 | |

| Distancia (d) | Altura (h) | Altura de tx efectiva valida | Ganancia real (Gi) | Atenuación de Espacio Libre (Ael) | Lb Hata (LbH) | E (LbH) | Potencia Rx (LbH) | Distancia (d) |
|---|---|---|---|---|---|---|---|---|
| 0 | 2056,9 | 45 | 5 | 0 | 0 | 171,32266 | 42,3169 | 0 |
| 0,147 | 2067,5 | 34,4 | 3,5 | 67,68210327 | 87,10898 | 82,713677 | -46,29208 | 0,147 |
| 0,2941 | 2073,3 | 30 | 5 | 73,70565706 | 98,215168 | 73,107489 | -55,89827 | 0,2941 |
| 0,4411 | 2040,8 | 61,1 | 5 | 77,22649773 | 100,8662 | 70,456455 | -58,5493 | 0,4411 |
| 0,5881 | 1988,3 | 113,6 | 4 | 79,72478016 | 101,69802 | 68,624642 | -60,38112 | 0,5881 |
| 0,7352 | 1954,7 | 147,2 | 4 | 81,66386654 | 103,28931 | 67,033351 | -61,97241 | 0,7352 |
| 0,8822 | 1929,7 | 172,2 | 4 | 83,24709764 | 104,80238 | 65,520279 | -63,48548 | 0,8822 |
| 1,0292 | 1906 | 107,57143 | 4 | 84,58575212 | 109,66802 | 60,654641 | -68,35112 | 1,0292 |
| 1,1763 | 1864 | 123,8625 | 4 | 85,74611851 | 110,62629 | 59,696368 | -69,30939 | 1,1763 |
| 1,3233 | 1802,3 | 157,0125 | 3,5 | 86,76892282 | 110,71596 | 59,106696 | -69,89906 | 1,3233 |
| 1,4703 | 1730,3 | 180,85556 | 3 | 87,68387572 | 111,19619 | 58,126471 | -70,87929 | 1,4703 |
| 1,6174 | 1677 | 200 | 3 | 88,51210535 | 111,77959 | 57,543062 | -71,46269 | 1,6174 |
| 1,7644 | 1620,9 | 200 | 3 | 89,26769756 | 112,90649 | 56,416162 | -72,58959 | 1,7644 |
| 1,9114 | 1568,8 | 200 | 2,5 | 89,96278821 | 113,94316 | 54,879495 | -74,12626 | 1,9114 |
| 2,0585 | 1563,6 | 200 | 3 | 90,606774 | 114,90361 | 54,419047 | -74,58671 | 2,0585 |
| 2,2055 | 1600,1 | 200 | 3,5 | 91,20589782 | 115,79715 | 54,025506 | -74,98025 | 2,2055 |
| 2,3525 | 1638 | 200 | 4 | 91,76634921 | 116,63302 | 53,689642 | -75,31612 | 2,3525 |
| 2,4996 | 1654,6 | 200 | 4 | 92,29316689 | 117,41872 | 52,903939 | -76,10182 | 2,4996 |
| 2,6466 | 1627,3 | 200 | 4 | 92,78952274 | 118,15899 | 52,163668 | -76,84209 | 2,6466 |
| 2,7936 | 1584,3 | 200 | 4 | 93,25904101 | 118,85923 | 51,463422 | -77,54233 | 2,7936 |
| 2,9407 | 1547,1 | 200 | 4 | 93,704771 | 119,524 | 50,798655 | -78,2071 | 2,9407 |
| 3,0877 | 1517,7 | 200 | 4 | 94,12845853 | 120,15589 | 50,166762 | -78,83899 | 3,0877 |
| 3,2347 | 1513,1 | 200 | 4 | 94,53243674 | 120,75839 | 49,564264 | -79,44149 | 3,2347 |
| 3,3818 | 1512,3 | 200 | 4 | 94,91871497 | 121,33449 | 48,988163 | -80,01759 | 3,3818 |
| 3,5288 | 1500,7 | 200 | 4 | 95,28829747 | 121,88569 | 48,436963 | -80,56879 | 3,5288 |
| 3,6758 | 1484,3 | 200 | 4 | 95,64279404 | 122,41439 | 47,908263 | -81,09749 | 3,6758 |
| 3,8229 | 1486,8 | 200 | 4,5 | 95,98361533 | 122,9227 | 47,899957 | -81,1058 | 3,8229 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3,9699 | 1493,4 | 200 | 4,5 | 96,31134792 | 123,41148 | 47,411173 | -81,59458 | 3,9699 |
| 4,1169 | 1475,8 | 200 | 4,5 | 96,62716293 | 123,88249 | 46,940162 | -82,06559 | 4,1169 |
| 4,264 | 1451,9 | 200 | 4,5 | 96,93210049 | 124,33728 | 46,485375 | -82,52038 | 4,264 |
| 4,411 | 1434 | 200 | 4,5 | 97,22649773 | 124,77635 | 46,046307 | -82,95945 | 4,411 |
| 4,558 | 1409,1 | 200 | 4,5 | 97,51124299 | 125,20102 | 45,621634 | -83,38412 | 4,558 |
| 4,7051 | 1395,4 | 200 | 4,5 | 97,78713374 | 125,61249 | 45,210167 | -83,79559 | 4,7051 |
| 4,8521 | 1407,1 | 200 | 5 | 98,05435143 | 126,01102 | 45,311635 | -83,69412 | 4,8521 |
| 4,9991 | 1400,2 | 200 | 5 | 98,31359306 | 126,39766 | 44,924999 | -84,08076 | 4,9991 |
| 5,1462 | 1445,4 | 200 | 5 | 98,56548978 | 126,77334 | 44,549317 | -84,45644 | 5,1462 |
| 5,2932 | 1508,6 | 200 | 5 | 98,81012265 | 127,13819 | 44,184469 | -84,82129 | 5,2932 |
| 5,4402 | 1571,5 | 200 | 5 | 99,0480539 | 127,49304 | 43,829615 | -85,17614 | 5,4402 |
| 5,5873 | 1575,9 | 200 | 5 | 99,27979639 | 127,83867 | 43,483991 | -85,52177 | 5,5873 |
| 5,7343 | 1532,4 | 200 | 5 | 99,50536477 | 128,17508 | 43,147576 | -85,85818 | 5,7343 |
| 5,8813 | 1474,1 | 200 | 5 | 99,72522323 | 128,50298 | 42,819676 | -86,18608 | 5,8813 |
| 6,0284 | 1416,1 | 200 | 5 | 99,9397978 | 128,823 | 42,499657 | -86,5061 | 6,0284 |
| 6,1754 | 1399,6 | 200 | 5 | 100,1490584 | 129,13509 | 42,187563 | -86,81819 | 6,1754 |
| 6,3224 | 1415,5 | 200 | 5 | 100,353396 | 129,43985 | 41,882811 | -87,12295 | 6,3224 |
| 6,4695 | 1461 | 200 | 5 | 100,5531709 | 129,73779 | 41,584864 | -87,42089 | 6,4695 |
| 6,6165 | 1509 | 200 | 5 | 100,7483229 | 130,02884 | 41,293812 | -87,71194 | 6,6165 |
| 6,7635 | 1549,8 | 200 | 5 | 100,9391865 | 130,3135 | 41,009156 | -87,9966 | 6,7635 |
| 6,9106 | 1573,4 | 200 | 5 | 101,1260717 | 130,59222 | 40,730433 | -88,27532 | 6,9106 |
| 7,0576 | 1564 | 200 | 5 | 101,3088974 | 130,86489 | 40,457764 | -88,54799 | 7,0576 |
| 7,2046 | 1540,6 | 200 | 5 | 101,487954 | 131,13194 | 40,190717 | -88,81504 | 7,2046 |
| 7,3517 | 1508,2 | 200 | 5 | 101,6635121 | 131,39377 | 39,928887 | -89,07687 | 7,3517 |
| 7,4987 | 1459,4 | 200 | 5 | 101,8354762 | 131,65024 | 39,672418 | -89,33334 | 7,4987 |
| 7,6457 | 1441,4 | 200 | 5 | 102,0041016 | 131,90173 | 39,420928 | -89,58483 | 7,6457 |
| 7,7928 | 1433,7 | 200 | 5 | 102,1696272 | 132,1486 | 39,174061 | -89,8317 | 7,7928 |
| 7,9398 | 1425,3 | 200 | 5 | 102,3319478 | 132,39068 | 38,931974 | -90,07378 | 7,9398 |
| 8,0868 | 1422,7 | 200 | 5 | 102,4912906 | 132,62833 | 38,694328 | -90,31143 | 8,0868 |
| 8,2339 | 1417,8 | 200 | 5 | 102,6478683 | 132,86185 | 38,460806 | -90,54495 | 8,2339 |
| 8,3809 | 1390,9 | 200 | 5 | 102,8015697 | 133,09108 | 38,231574 | -90,77418 | 8,3809 |
| 8,5279 | 1361 | 200 | 5 | 102,9525986 | 133,31633 | 38,006327 | -90,99943 | 8,5279 |
| 8,675 | 1313,8 | 200 | 5 | 103,1011462 | 133,53788 | 37,784782 | -91,22098 | 8,675 |
| 8,822 | 1255,5 | 200 | 5 | 103,2470976 | 133,75555 | 37,567108 | -91,43865 | 8,822 |
| 8,969 | 1220,4 | 200 | 5 | 103,3906371 | 133,96963 | 37,353031 | -91,65273 | 8,969 |
| 9,1161 | 1187,7 | 200 | 5 | 103,5319382 | 134,18036 | 37,142293 | -91,86346 | 9,1161 |
| 9,2631 | 1162,2 | 200 | 5 | 103,6708836 | 134,38759 | 36,935068 | -92,07069 | 9,2631 |
| 9,4101 | 1168 | 200 | 5 | 103,8076413 | 134,59155 | 36,731106 | -92,27465 | 9,4101 |
| 9,5572 | 1179 | 200 | 5 | 103,9423701 | 134,79249 | 36,53017 | -92,47559 | 9,5572 |
| 9,7042 | 1221,4 | 200 | 5 | 104,0749513 | 134,99022 | 36,332436 | -92,67332 | 9,7042 |
| 9,8512 | 1257,2 | 200 | 5 | 104,2055393 | 135,18498 | 36,137676 | -92,86808 | 9,8512 |
| 9,9983 | 1223,9 | 200 | 5 | 104,3342798 | 135,37699 | 35,94567 | -93,06009 | 9,9983 |
| 10,1453 | 1171,4 | 200 | 5 | 104,4610544 | 135,56606 | 35,756597 | -93,24916 | 10,1453 |
| 10,2923 | 1150,7 | 200 | 5 | 104,5860053 | 135,75241 | 35,570244 | -93,43551 | 10,2923 |
| 10,4394 | 1140,4 | 200 | 5 | 104,7092673 | 135,93625 | 35,386409 | -93,61935 | 10,4394 |
| 10,5864 | 1133,5 | 200 | 5 | 104,8307226 | 136,11739 | 35,20527 | -93,80049 | 10,5864 |
| 10,7334 | 1114,4 | 200 | 5 | 104,9505029 | 136,29603 | 35,026628 | -93,97913 | 10,7334 |
| 10,8805 | 1064 | 200 | 5 | 105,0687336 | 136,47236 | 34,850297 | -94,15546 | 10,8805 |

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|---|---|---|---|---|---|---|---|---|
| 11,0275 | 1024,6 | 200 | 5 | 105,1852979 | 136,64621 | 34,676451 | -94,32931 | 11,0275 |
| 11,1745 | 1055,4 | 200 | 5 | 105,3003186 | 136,81775 | 34,504908 | -94,50085 | 11,1745 |
| 11,3216 | 1056,3 | 200 | 5 | 105,4139127 | 136,98716 | 34,335492 | -94,67026 | 11,3216 |
| 11,4686 | 1025,9 | 200 | 5 | 105,5259647 | 137,15428 | 34,168377 | -94,83738 | 11,4686 |
| 11,6156 | 992,4 | 200 | 5 | 105,6365895 | 137,31927 | 34,003389 | -95,00237 | 11,6156 |
| 11,7627 | 945,4 | 200 | 5 | 105,745897 | 137,48229 | 33,840367 | -95,16539 | 11,7627 |
| 11,9097 | 894,1 | 200 | 5 | 105,853773 | 137,64318 | 33,679479 | -95,32628 | 11,9097 |
| 12,0567 | 842,7 | 200 | 5 | 105,9603257 | 137,80209 | 33,520565 | -95,48519 | 12,0567 |
| 12,2038 | 763,2 | 200 | 5 | 106,0656582 | 137,95919 | 33,363471 | -95,64229 | 12,2038 |
| 12,3508 | 676,8 | 200 | 5 | 106,1696584 | 138,11429 | 33,208364 | -95,79739 | 12,3508 |
| 12,4978 | 591,4 | 200 | 5 | 106,272428 | 138,26756 | 33,055092 | -95,95066 | 12,4978 |
| 12,6449 | 529,7 | 200 | 5 | 106,3740646 | 138,41915 | 32,90351 | -96,10225 | 12,6449 |
| 12,7919 | 493,2 | 200 | 5 | 106,4744577 | 138,56887 | 32,753782 | -96,25197 | 12,7919 |
| 12,9389 | 461,2 | 200 | 5 | 106,5737037 | 138,71689 | 32,605765 | -96,39999 | 12,9389 |
| 13,086 | 443,1 | 200 | 5 | 106,6718949 | 138,86333 | 32,459322 | -96,54643 | 13,086 |
| 13,233 | 426,5 | 200 | 5 | 106,7689228 | 139,00804 | 32,314613 | -96,69114 | 13,233 |
| 13,38 | 442 | 200 | 5 | 106,8648788 | 139,15115 | 32,171503 | -96,83425 | 13,38 |
| 13,5271 | 463,6 | 200 | 5 | 106,9598506 | 139,2928 | 32,029861 | -96,9759 | 13,5271 |
| 13,6741 | 474,8 | 200 | 5 | 107,0537316 | 139,43281 | 31,889846 | -97,11591 | 13,6741 |
| 13,8211 | 486,2 | 200 | 5 | 107,1466088 | 139,57133 | 31,751327 | -97,25443 | 13,8211 |
| 13,9682 | 488,7 | 200 | 5 | 107,2385655 | 139,70847 | 31,614182 | -97,39157 | 13,9682 |
| 14,1152 | 525,5 | 200 | 5 | 107,3294973 | 139,84409 | 31,478565 | -97,52719 | 14,1152 |
| 14,2622 | 576,4 | 200 | 5 | 107,419487 | 139,9783 | 31,344353 | -97,6614 | 14,2622 |
| 14,4093 | 623,2 | 200 | 5 | 107,5086142 | 140,11123 | 31,211428 | -97,79433 | 14,4093 |
| 14,5563 | 674,4 | 200 | 5 | 107,5967765 | 140,24272 | 31,079942 | -97,92581 | 14,5563 |
| 14,7033 | 724,7 | 200 | 5 | 107,6840529 | 140,37288 | 30,949776 | -98,05598 | 14,7033 |
| 14,8504 | 766,3 | 200 | 5 | 107,7705196 | 140,50184 | 30,820819 | -98,18494 | 14,8504 |
| 14,9974 | 802,8 | 200 | 5 | 107,8560761 | 140,62944 | 30,693219 | -98,31254 | 14,9974 |
| 15,1444 | 813,4 | 200 | 5 | 107,940798 | 140,75579 | 30,566864 | -98,43889 | 15,1444 |
| 15,2915 | 820,1 | 200 | 5 | 108,0247584 | 140,88101 | 30,441644 | -98,56411 | 15,2915 |
| 15,4385 | 864,6 | 200 | 5 | 108,1078586 | 141,00495 | 30,317707 | -98,68805 | 15,4385 |
| 15,5855 | 898,2 | 200 | 5 | 108,1901714 | 141,12771 | 30,194945 | -98,81081 | 15,5855 |
| 15,7326 | 894,9 | 200 | 5 | 108,2717666 | 141,2494 | 30,073253 | -98,9325 | 15,7326 |
| 15,8796 | 878,6 | 200 | 5 | 108,3525477 | 141,36988 | 29,952775 | -99,05298 | 15,8796 |
| 16,0266 | 868,1 | 200 | 5 | 108,4325845 | 141,48925 | 29,833407 | -99,17235 | 16,0266 |
| 16,1737 | 863,6 | 200 | 5 | 108,5119442 | 141,60761 | 29,715049 | -99,29071 | 16,1737 |
| 16,3207 | 714,6 | 200 | 5 | 108,5905322 | 141,72481 | 29,597842 | -99,40791 | 16,3207 |
| 16,4677 | 706,4 | 200 | 5 | 108,6684155 | 141,84097 | 29,481686 | -99,52407 | 16,4677 |
| 16,6148 | 680,2 | 200 | 5 | 108,7456589 | 141,95617 | 29,366484 | -99,63927 | 16,6148 |
| 16,7618 | 668,2 | 200 | 5 | 108,8221697 | 142,07028 | 29,252375 | -99,75338 | 16,7618 |
| 16,9088 | 641,6 | 200 | 5 | 108,8980123 | 142,18339 | 29,139262 | -99,86649 | 16,9088 |
| 17,0559 | 604,9 | 200 | 5 | 108,9732494 | 142,2956 | 29,027052 | -99,9787 | 17,0559 |
| 17,2029 | 604,1 | 200 | 5 | 109,0477899 | 142,40677 | 28,915882 | -100,0899 | 17,2029 |
| 17,3499 | 619,2 | 200 | 5 | 109,1216961 | 142,517 | 28,805657 | -100,2001 | 17,3499 |
| 17,497 | 585,1 | 200 | 5 | 109,1950284 | 142,62637 | 28,696288 | -100,3095 | 17,497 |
| 17,644 | 503,3 | 200 | 5 | 109,2676976 | 142,73475 | 28,587909 | -100,4178 | 17,644 |
| 17,791 | 435,3 | 200 | 5 | 109,3397638 | 142,84223 | 28,480428 | -100,5253 | 17,791 |
| 17,938 | 395,6 | 200 | 5 | 109,411237 | 142,94882 | 28,373832 | -100,6319 | 17,938 |

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|---|---|---|---|---|---|---|---|---|
| 18,0851 | 380,7 | 200 | 5 | 109,4821749 | 143,05462 | 28,268035 | -100,7377 | 18,0851 |
| 18,2321 | 406,5 | 200 | 5 | 109,5524905 | 143,15949 | 28,163165 | -100,8426 | 18,2321 |
| 18,3791 | 448,6 | 200 | 5 | 109,6222414 | 143,26352 | 28,059138 | -100,9466 | 18,3791 |
| 18,5262 | 469,4 | 200 | 5 | 109,6914835 | 143,36679 | 27,955869 | -101,0499 | 18,5262 |
| 18,6732 | 473,4 | 200 | 5 | 109,7601315 | 143,46917 | 27,853486 | -101,1523 | 18,6732 |
| 18,8202 | 455,9 | 200 | 5 | 109,8282413 | 143,57075 | 27,751907 | -101,2538 | 18,8202 |
| 18,9673 | 464,3 | 200 | 5 | 109,8958668 | 143,67161 | 27,651049 | -101,3547 | 18,9673 |
| 19,1143 | 434,3 | 200 | 5 | 109,9629245 | 143,77162 | 27,551038 | -101,4547 | 19,1143 |
| 19,2613 | 363,8 | 200 | 5 | 110,0294685 | 143,87086 | 27,451794 | -101,554 | 19,2613 |
| 19,4084 | 385,2 | 200 | 5 | 110,0955513 | 143,96942 | 27,353237 | -101,6525 | 19,4084 |
| 19,5554 | 415,7 | 200 | 5 | 110,1610906 | 144,06717 | 27,255491 | -101,7503 | 19,5554 |
| 19,7024 | 445,9 | 200 | 5 | 110,2261392 | 144,16418 | 27,158477 | -101,8473 | 19,7024 |
| 19,8495 | 499,4 | 200 | 5 | 110,290748 | 144,26054 | 27,062118 | -101,9436 | 19,8495 |
| 19,9965 | 510,9 | 200 | 5 | 110,3548363 | 144,35612 | 26,966536 | -102,0392 | 19,9965 |
| 20,1435 | 464,1 | 200 | 5 | 110,4184552 | 144,451 | 26,871654 | -102,1341 | 20,1435 |
| 20,2906 | 402,6 | 200 | 5 | 110,4816544 | 144,54526 | 26,777398 | -102,2284 | 20,2906 |
| 20,4376 | 327 | 200 | 5 | 110,5443545 | 144,63877 | 26,683886 | -102,3219 | 20,4376 |
| 20,5846 | 228,7 | 200 | 5 | 110,6066052 | 144,73161 | 26,591045 | -102,4147 | 20,5846 |
| 20,7317 | 195,4 | 200 | 5 | 110,6684549 | 144,82386 | 26,498802 | -102,507 | 20,7317 |
| 20,8787 | 244,7 | 200 | 5 | 110,7298257 | 144,91538 | 26,407272 | -102,5985 | 20,8787 |
| 21,0257 | 299,7 | 200 | 5 | 110,7907658 | 145,00627 | 26,316385 | -102,6894 | 21,0257 |
| 21,1728 | 356,3 | 200 | 5 | 110,8513225 | 145,09659 | 26,22607 | -102,7797 | 21,1728 |
| 21,3198 | 431,3 | 200 | 5 | 110,9114191 | 145,18622 | 26,136442 | -102,8693 | 21,3198 |
| 21,4668 | 492,6 | 200 | 5 | 110,9711028 | 145,27523 | 26,047429 | -102,9583 | 21,4668 |
| 21,6139 | 512,4 | 200 | 5 | 111,0304193 | 145,36369 | 25,958963 | -103,0468 | 21,6139 |
| 21,7609 | 542,9 | 200 | 5 | 111,0892936 | 145,4515 | 25,871157 | -103,1346 | 21,7609 |
| 21,9079 | 563,2 | 200 | 5 | 111,1477716 | 145,53871 | 25,783943 | -103,2218 | 21,9079 |
| 22,055 | 569,4 | 200 | 5 | 111,2058978 | 145,6254 | 25,697252 | -103,3085 | 22,055 |
| 22,202 | 561,3 | 200 | 5 | 111,2635985 | 145,71146 | 25,611197 | -103,3946 | 22,202 |
| 22,349 | 553,2 | 200 | 5 | 111,3209185 | 145,79695 | 25,525709 | -103,48 | 22,349 |
| 22,4961 | 571,4 | 200 | 5 | 111,3779013 | 145,88193 | 25,440724 | -103,565 | 22,4961 |
| 22,6431 | 590,8 | 200 | 5 | 111,4344743 | 145,96631 | 25,356351 | -103,6494 | 22,6431 |
| 22,7901 | 614 | 200 | 5 | 111,4906812 | 146,05013 | 25,272523 | -103,7332 | 22,7901 |
| 22,9372 | 627,6 | 200 | 5 | 111,5465646 | 146,13348 | 25,189178 | -103,8166 | 22,9372 |
| 23,0842 | 602,4 | 200 | 5 | 111,6020531 | 146,21624 | 25,106421 | -103,8993 | 23,0842 |
| 23,2312 | 564,1 | 200 | 5 | 111,6571894 | 146,29847 | 25,02419 | -103,9816 | 23,2312 |
| 23,3783 | 519,9 | 200 | 5 | 111,7120151 | 146,38023 | 24,942423 | -104,0633 | 23,3783 |
| 23,5253 | 478,1 | 200 | 5 | 111,76646 | 146,46143 | 24,861223 | -104,1445 | 23,5253 |
| 23,6723 | 437 | 200 | 5 | 111,8205657 | 146,54213 | 24,780529 | -104,2252 | 23,6723 |
| 23,8194 | 418,2 | 200 | 5 | 111,8743729 | 146,62238 | 24,70028 | -104,3055 | 23,8194 |
| 23,9664 | 415,1 | 200 | 5 | 111,9278126 | 146,70208 | 24,620579 | -104,3852 | 23,9664 |
| 24,1134 | 398,5 | 200 | 5 | 111,9809256 | 146,78129 | 24,541366 | -104,4644 | 24,1134 |
| 24,2605 | 362,1 | 200 | 5 | 112,0337515 | 146,86008 | 24,462581 | -104,5432 | 24,2605 |
| 24,4075 | 352 | 200 | 5 | 112,0862225 | 146,93833 | 24,384325 | -104,6214 | 24,4075 |
| 24,5545 | 382,8 | 200 | 5 | 112,1383785 | 147,01612 | 24,306539 | -104,6992 | 24,5545 |
| 24,7016 | 386,7 | 200 | 5 | 112,1902583 | 147,09349 | 24,229165 | -104,7766 | 24,7016 |
| 24,8486 | 366,7 | 200 | 5 | 112,2417951 | 147,17035 | 24,152302 | -104,8535 | 24,8486 |
| 24,9956 | 360,2 | 200 | 5 | 112,2930279 | 147,24676 | 24,075893 | -104,9299 | 24,9956 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 25,1427 | 399,5 | 200 | 5 | 112,3439948 | 147,32278 | 23,99988 | -105,0059 | 25,1427 |
| 25,2897 | 403,2 | 200 | 5 | 112,3946301 | 147,39829 | 23,924362 | -105,0814 | 25,2897 |
| 25,4367 | 389 | 200 | 5 | 112,4449719 | 147,47338 | 23,849281 | -105,1565 | 25,4367 |
| 25,5838 | 378,3 | 200 | 5 | 112,4950576 | 147,54807 | 23,774583 | -105,2312 | 25,5838 |
| 25,7308 | 353,1 | 200 | 5 | 112,5448224 | 147,62229 | 23,700363 | -105,3054 | 25,7308 |
| 25,8778 | 344,3 | 200 | 5 | 112,5943036 | 147,69609 | 23,626566 | -105,3792 | 25,8778 |
| 26,0249 | 367,4 | 200 | 5 | 112,643538 | 147,76952 | 23,553138 | -105,4526 | 26,0249 |
| 26,1719 | 373 | 200 | 5 | 112,6924616 | 147,84248 | 23,480172 | -105,5256 | 26,1719 |
| 26,3189 | 361,7 | 200 | 5 | 112,7411113 | 147,91504 | 23,407616 | -105,5981 | 26,3189 |
| 26,466 | 357,9 | 200 | 5 | 112,7895227 | 147,98724 | 23,335414 | -105,6703 | 26,466 |
| 26,613 | 348,4 | 200 | 5 | 112,8376333 | 148,059 | 23,263661 | -105,7421 | 26,613 |
| 26,76 | 354,7 | 200 | 5 | 112,8854788 | 148,13035 | 23,192304 | -105,8135 | 26,76 |
| 26,9071 | 378,5 | 200 | 5 | 112,9330944 | 148,20137 | 23,121289 | -105,8845 | 26,9071 |
| 27,0541 | 410 | 200 | 5 | 112,9804184 | 148,27195 | 23,05071 | -105,955 | 27,0541 |
| 27,2011 | 453,4 | 200 | 5 | 113,0274859 | 148,34214 | 22,980513 | -106,0252 | 27,2011 |
| 27,3482 | 461,1 | 200 | 5 | 113,0743315 | 148,41201 | 22,910647 | -106,0951 | 27,3482 |
| 27,4952 | 413,5 | 200 | 5 | 113,1208942 | 148,48145 | 22,841202 | -106,1646 | 27,4952 |
| 27,6422 | 379,2 | 200 | 5 | 113,1672087 | 148,55053 | 22,772128 | -106,2336 | 27,6422 |
| 27,7893 | 357,5 | 200 | 5 | 113,2133087 | 148,61928 | 22,703374 | -106,3024 | 27,7893 |
| 27,9363 | 367 | 200 | 5 | 113,2591343 | 148,68763 | 22,635029 | -106,3707 | 27,9363 |
| 28,0833 | 342,3 | 200 | 5 | 113,3047194 | 148,75561 | 22,567043 | -106,4387 | 28,0833 |
| 28,2304 | 328,1 | 200 | 5 | 113,3500972 | 148,82329 | 22,499366 | -106,5064 | 28,2304 |
| 28,3774 | 311,7 | 200 | 5 | 113,3952086 | 148,89057 | 22,432086 | -106,5737 | 28,3774 |
| 28,5244 | 278,1 | 200 | 5 | 113,4400869 | 148,9575 | 22,365154 | -106,6406 | 28,5244 |
| 28,6715 | 273,5 | 200 | 5 | 113,4847649 | 149,02414 | 22,298521 | -106,7072 | 28,6715 |
| 28,8185 | 253,2 | 200 | 5 | 113,529184 | 149,09038 | 22,232274 | -106,7735 | 28,8185 |
| 28,9655 | 266,3 | 200 | 5 | 113,5733772 | 149,15629 | 22,166364 | -106,8394 | 28,9655 |
| 29,1126 | 310 | 200 | 5 | 113,6173764 | 149,22191 | 22,100743 | -106,905 | 29,1126 |
| 29,2596 | 310,2 | 200 | 5 | 113,6611243 | 149,28716 | 22,035496 | -106,9703 | 29,2596 |
| 29,4066 | 310 | 200 | 5 | 113,7046529 | 149,35208 | 21,970577 | -107,0352 | 29,4066 |

**Perfil Topográfico Estación Avila-5 280°**

Altura [m]

Distancia [Km]