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|-------------------------|-----------|
| 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 |
| 0,1449 | 2068,4 | 33,5 | 3,5 | 67,55712428 | 86,987145 | 82,835511 | -46,17025 | 0,1449 |
| 0,2898 | 2088,7 | 30 | 5 | 73,5777242 | 97,989847 | 73,33281 | -55,67295 | 0,2898 |
| 0,4346 | 2084,2 | 30 | 5 | 77,09755101 | 104,18912 | 67,13354 | -61,87222 | 0,4346 |
| 0,5795 | 2070,1 | 31,8 | 5 | 79,59682538 | 108,28049 | 63,042164 | -65,96359 | 0,5795 |
| 0,7244 | 2060,4 | 41,5 | 5 | 81,53532541 | 110,18676 | 61,135901 | -67,86986 | 0,7244 |
| 0,8693 | 2045,2 | 56,7 | 5 | 83,11915017 | 111,08407 | 60,238591 | -68,76717 | 0,8693 |
| 1,0142 | 2010,3 | 40,857143 | 5 | 84,4582287 | 115,29377 | 56,028888 | -72,97687 | 1,0142 |
| 1,1591 | 1956,6 | 53,9125 | 5 | 85,61817469 | 115,57095 | 55,751702 | -73,25405 | 1,1591 |
| 1,3039 | 2020,8 | 59,8625 | 5 | 86,64064228 | 116,62387 | 54,698784 | -74,30697 | 1,3039 |
| 1,4488 | 2083,4 | 55,266667 | 5 | 87,55592532 | 118,662 | 52,660662 | -76,34509 | 1,4488 |
| 1,5937 | 2143,5 | 45,58 | 5 | 88,38388803 | 121,31582 | 50,006835 | -78,99892 | 1,5937 |
| 1,7386 | 2198,9 | 34,56 | 5 | 89,13975008 | 124,4524 | 46,870261 | -82,1355 | 1,7386 |
| 1,8835 | 2264,5 | 30 | 5 | 89,83506906 | 126,62298 | 44,699678 | -84,30608 | 1,8835 |
| 2,0283 | 2331,5 | 30 | 5 | 90,47840039 | 127,75604 | 43,566616 | -85,43914 | 2,0283 |
| 2,1732 | 2370 | 30 | 5 | 91,0777505 | 128,81164 | 42,511015 | -86,49474 | 2,1732 |
| 2,3181 | 2305,6 | 30 | 5 | 91,63839991 | 129,79908 | 41,523575 | -87,48218 | 2,3181 |
| 2,463 | 2178,2 | 30 | 5 | 92,16504481 | 130,72663 | 40,596025 | -88,40973 | 2,463 |
| 2,6079 | 2099,6 | 30 | 5 | 92,66157526 | 131,60114 | 39,721515 | -89,28424 | 2,6079 |
| 2,7527 | 2081,9 | 30 | 5 | 93,13093423 | 132,4278 | 38,89486 | -90,1109 | 2,7527 |
| 2,8976 | 2075,9 | 30 | 5 | 93,57652523 | 133,21259 | 38,110066 | -90,89569 | 2,8976 |
| 3,0425 | 2001,1 | 30 | 5 | 94,00036831 | 133,95908 | 37,363575 | -91,64218 | 3,0425 |
| 3,1874 | 1878,3 | 30 | 5 | 94,40448794 | 134,67083 | 36,651822 | -92,35393 | 3,1874 |
| 3,3323 | 1755,4 | 30 | 5 | 94,79063844 | 135,35094 | 35,971718 | -93,03404 | 3,3323 |
| 3,4772 | 1723 | 30 | 5 | 95,16034999 | 136,00209 | 35,320566 | -93,68519 | 3,4772 |
| 3,622 | 1687 | 41,365 | 5 | 95,51472549 | 134,18741 | 37,135245 | -91,87051 | 3,622 |
| 3,7669 | 1640 | 61,390476 | 5 | 95,8554384 | 131,75534 | 39,567318 | -89,43844 | 3,7669 |

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|---------|--------|-----------|---|-------------|-----------|-----------|-----------|---------|
| 3,9118 | 1620,1 | 80,5 | 5 | 96,18328942 | 130,21617 | 41,106491 | -87,89927 | 3,9118 |
| 4,0567 | 1625,6 | 97,708696 | 5 | 96,49921441 | 129,23029 | 42,092365 | -86,91339 | 4,0567 |
| 4,2016 | 1678 | 113,67391 | 5 | 96,80405066 | 128,53924 | 42,783415 | -86,22234 | 4,2016 |
| 4,3464 | 1689,4 | 126,125 | 5 | 97,09835041 | 128,1893 | 43,133359 | -85,8724 | 4,3464 |
| 4,4913 | 1705,4 | 136,94 | 5 | 97,38319787 | 127,98635 | 43,336304 | -85,66945 | 4,4913 |
| 4,6362 | 1725,4 | 146,15385 | 5 | 97,65899983 | 127,89832 | 43,424335 | -85,58142 | 4,6362 |
| 4,7811 | 1785 | 154,81923 | 5 | 97,92631312 | 127,85188 | 43,470775 | -85,53498 | 4,7811 |
| 4,926 | 1820,9 | 159,49259 | 5 | 98,18564472 | 128,01102 | 43,311637 | -85,69412 | 4,926 |
| 5,0708 | 1777 | 165,4 | 5 | 98,43728621 | 128,10319 | 43,219467 | -85,78629 | 5,0708 |
| 5,2157 | 1745,3 | 172,94643 | 5 | 98,68200864 | 128,11597 | 43,206688 | -85,79907 | 5,2157 |
| 5,3606 | 1713,9 | 180,36207 | 5 | 98,92002461 | 128,13679 | 43,185866 | -85,81989 | 5,3606 |
| 5,5055 | 1668,8 | 188,78667 | 5 | 99,15169191 | 128,11551 | 43,207147 | -85,79861 | 5,5055 |
| 5,6504 | 1619,2 | 198,26774 | 5 | 99,37734044 | 128,05497 | 43,267691 | -85,73807 | 5,6504 |
| 5,7953 | 1650,3 | 200 | 5 | 99,59727503 | 128,31216 | 43,0105 | -85,99526 | 5,7953 |
| 5,9401 | 1723,8 | 200 | 5 | 99,8116317 | 128,63185 | 42,690805 | -86,31495 | 5,9401 |
| 6,085 | 1845,2 | 200 | 5 | 100,0209682 | 128,94406 | 42,378598 | -86,62716 | 6,085 |
| 6,2299 | 1905,6 | 200 | 5 | 100,2253781 | 129,24892 | 42,073739 | -86,93202 | 6,2299 |
| 6,3748 | 1894 | 200 | 5 | 100,4250879 | 129,54677 | 41,775889 | -87,22987 | 6,3748 |
| 6,5197 | 1838,1 | 200 | 5 | 100,6203088 | 129,83792 | 41,484734 | -87,52102 | 6,5197 |
| 6,6645 | 1773,4 | 200 | 5 | 100,811108 | 130,12248 | 41,200174 | -87,80558 | 6,6645 |
| 6,8094 | 1692,5 | 200 | 5 | 100,9979335 | 130,40112 | 40,92154 | -88,08422 | 6,8094 |
| 6,9543 | 1616,9 | 200 | 5 | 101,180825 | 130,67388 | 40,648773 | -88,35698 | 6,9543 |
| 7,0992 | 1589,9 | 200 | 5 | 101,3599448 | 130,94103 | 40,381631 | -88,62413 | 7,0992 |
| 7,2441 | 1436 | 200 | 5 | 101,5354453 | 131,20277 | 40,119888 | -88,88587 | 7,2441 |
| 7,3889 | 1578,4 | 200 | 5 | 101,7073524 | 131,45915 | 39,863503 | -89,14225 | 7,3889 |
| 7,5338 | 1612,2 | 200 | 5 | 101,8760383 | 131,71073 | 39,611923 | -89,39383 | 7,5338 |
| 7,6787 | 1672,1 | 200 | 5 | 102,0415106 | 131,95752 | 39,365136 | -89,64062 | 7,6787 |
| 7,8236 | 1695,8 | 200 | 5 | 102,2038893 | 132,19969 | 39,122962 | -89,88279 | 7,8236 |
| 7,9685 | 1634,2 | 200 | 5 | 102,3632881 | 132,43742 | 38,885233 | -90,12052 | 7,9685 |
| 8,1134 | 1573,5 | 200 | 5 | 102,5198143 | 132,67087 | 38,651787 | -90,35397 | 8,1134 |
| 8,2582 | 1520,5 | 200 | 5 | 102,6734645 | 132,90003 | 38,422632 | -90,58313 | 8,2582 |
| 8,4031 | 1468,1 | 200 | 5 | 102,8245472 | 133,12535 | 38,197305 | -90,80845 | 8,4031 |
| 8,548 | 1434,3 | 200 | 5 | 102,9730468 | 133,34683 | 37,975831 | -91,02993 | 8,548 |
| 8,6929 | 1386,7 | 200 | 5 | 103,1190502 | 133,56458 | 37,758079 | -91,24768 | 8,6929 |
| 8,8378 | 1355,5 | 200 | 5 | 103,26264 | 133,77873 | 37,543928 | -91,46183 | 8,8378 |
| 8,9826 | 1383,3 | 200 | 5 | 103,4037978 | 133,98925 | 37,333403 | -91,67235 | 8,9826 |
| 9,1275 | 1440,9 | 200 | 5 | 103,5427934 | 134,19655 | 37,126103 | -91,87965 | 9,1275 |
| 9,2724 | 1531,1 | 200 | 5 | 103,6795997 | 134,40059 | 36,922069 | -92,08369 | 9,2724 |
| 9,4173 | 1594,9 | 200 | 5 | 103,8142847 | 134,60146 | 36,721198 | -92,28456 | 9,4173 |
| 9,5622 | 1645,4 | 200 | 5 | 103,946913 | 134,79926 | 36,523394 | -92,48236 | 9,5622 |
| 9,707 | 1688,3 | 200 | 5 | 104,0774572 | 134,99396 | 36,328699 | -92,67706 | 9,707 |
| 9,8519 | 1708,6 | 200 | 5 | 104,2061565 | 135,1859 | 36,136755 | -92,869 | 9,8519 |
| 9,9968 | 1710 | 200 | 5 | 104,3329766 | 135,37504 | 35,947614 | -93,05814 | 9,9968 |
| 10,1417 | 1708,9 | 200 | 5 | 104,4579718 | 135,56146 | 35,761195 | -93,24456 | 10,1417 |
| 10,2866 | 1711,6 | 200 | 5 | 104,5811936 | 135,74524 | 35,57742 | -93,42834 | 10,2866 |
| 10,4315 | 1680 | 200 | 5 | 104,7026918 | 135,92644 | 35,396216 | -93,60954 | 10,4315 |
| 10,5763 | 1623 | 200 | 5 | 104,8224318 | 136,10502 | 35,217634 | -93,78812 | 10,5763 |
| 10,7212 | 1559,6 | 200 | 5 | 104,9406245 | 136,2813 | 35,04136 | -93,9644 | 10,7212 |

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|---------|--------|-----|---|-------------|-----------|-----------|-----------|---------|
| 10,8661 | 1534,3 | 200 | 5 | 105,0572305 | 136,4552 | 34,867453 | -94,1383 | 10,8661 |
| 11,011 | 1529,8 | 200 | 5 | 105,1722918 | 136,62681 | 34,695849 | -94,30991 | 11,011 |
| 11,1559 | 1507,6 | 200 | 5 | 105,2858488 | 136,79617 | 34,526488 | -94,47927 | 11,1559 |
| 11,3007 | 1510,2 | 200 | 5 | 105,3978635 | 136,96323 | 34,359428 | -94,64633 | 11,3007 |
| 11,4456 | 1520,9 | 200 | 5 | 105,5085279 | 137,12827 | 34,194382 | -94,81137 | 11,4456 |
| 11,5905 | 1508,2 | 200 | 5 | 105,6178 | 137,29124 | 34,031412 | -94,97434 | 11,5905 |
| 11,7354 | 1459,8 | 200 | 5 | 105,7257145 | 137,45219 | 33,870467 | -95,13529 | 11,7354 |
| 11,8803 | 1400,1 | 200 | 5 | 105,8323047 | 137,61116 | 33,711497 | -95,29426 | 11,8803 |
| 12,0251 | 1341,9 | 200 | 5 | 105,9375305 | 137,76809 | 33,554562 | -95,45119 | 12,0251 |
| 12,17 | 1301,6 | 200 | 5 | 106,0415681 | 137,92326 | 33,399399 | -95,60636 | 12,17 |
| 12,3149 | 1270,7 | 200 | 5 | 106,1443744 | 138,07658 | 33,246073 | -95,75968 | 12,3149 |
| 12,4598 | 1219,4 | 200 | 5 | 106,245978 | 138,22812 | 33,09454 | -95,91122 | 12,4598 |
| 12,6047 | 1127,1 | 200 | 5 | 106,3464068 | 138,3779 | 32,944759 | -96,061 | 12,6047 |
| 12,7496 | 1059,5 | 200 | 5 | 106,4456878 | 138,52597 | 32,79669 | -96,20907 | 12,7496 |
| 12,8944 | 1051,9 | 200 | 5 | 106,5437793 | 138,67226 | 32,650395 | -96,35536 | 12,8944 |
| 13,0393 | 1033,2 | 200 | 5 | 106,6408421 | 138,81702 | 32,505634 | -96,50012 | 13,0393 |
| 13,1842 | 979,7 | 200 | 5 | 106,7368322 | 138,96018 | 32,362473 | -96,64328 | 13,1842 |
| 13,3291 | 941 | 200 | 5 | 106,8317731 | 139,10178 | 32,220877 | -96,78488 | 13,3291 |
| 13,474 | 912,3 | 200 | 5 | 106,9256874 | 139,24184 | 32,080812 | -96,92494 | 13,474 |
| 13,6188 | 873,7 | 200 | 5 | 107,0185334 | 139,38032 | 31,942341 | -97,06342 | 13,6188 |
| 13,7637 | 808,1 | 200 | 5 | 107,1104605 | 139,51742 | 31,805239 | -97,20052 | 13,7637 |
| 13,9086 | 725,8 | 200 | 5 | 107,2014249 | 139,65308 | 31,669574 | -97,33618 | 13,9086 |
| 14,0535 | 638,9 | 200 | 5 | 107,2914465 | 139,78734 | 31,535315 | -97,47044 | 14,0535 |
| 14,1984 | 568,4 | 200 | 5 | 107,3805447 | 139,92022 | 31,402432 | -97,60332 | 14,1984 |
| 14,3433 | 508,8 | 200 | 5 | 107,4687382 | 140,05176 | 31,2709 | -97,73486 | 14,3433 |
| 14,4881 | 481,9 | 200 | 5 | 107,5559853 | 140,18188 | 31,140778 | -97,86498 | 14,4881 |
| 14,633 | 489,6 | 200 | 5 | 107,642424 | 140,31079 | 31,011862 | -97,99389 | 14,633 |
| 14,7779 | 549,3 | 200 | 5 | 107,728011 | 140,43844 | 30,884217 | -98,12154 | 14,7779 |
| 14,9228 | 617,6 | 200 | 5 | 107,8127629 | 140,56484 | 30,757817 | -98,24794 | 14,9228 |
| 15,0677 | 710,6 | 200 | 5 | 107,8966959 | 140,69002 | 30,632638 | -98,37312 | 15,0677 |
| 15,2125 | 805,8 | 200 | 5 | 107,9797684 | 140,81391 | 30,508743 | -98,49701 | 15,2125 |
| 15,3574 | 889,4 | 200 | 5 | 108,0621105 | 140,93672 | 30,385937 | -98,61982 | 15,3574 |
| 15,5023 | 935,8 | 200 | 5 | 108,1436793 | 141,05837 | 30,264284 | -98,74147 | 15,5023 |
| 15,6472 | 907 | 200 | 5 | 108,2244892 | 141,17889 | 30,143763 | -98,86199 | 15,6472 |
| 15,7921 | 844,8 | 200 | 5 | 108,3045543 | 141,2983 | 30,024353 | -98,9814 | 15,7921 |
| 15,9369 | 837,6 | 200 | 5 | 108,3838335 | 141,41654 | 29,906115 | -99,09964 | 15,9369 |
| 16,0818 | 884 | 200 | 5 | 108,4624497 | 141,53379 | 29,788866 | -99,21689 | 16,0818 |
| 16,2267 | 975 | 200 | 5 | 108,5403607 | 141,64999 | 29,672668 | -99,33309 | 16,2267 |
| 16,3716 | 1029,1 | 200 | 5 | 108,6175791 | 141,76515 | 29,557504 | -99,44825 | 16,3716 |
| 16,5165 | 1019 | 200 | 5 | 108,694117 | 141,8793 | 29,443354 | -99,5624 | 16,5165 |
| 16,6614 | 984,9 | 200 | 5 | 108,7699864 | 141,99246 | 29,330202 | -99,67556 | 16,6614 |
| 16,8062 | 943,4 | 200 | 5 | 108,8451471 | 142,10455 | 29,218106 | -99,78765 | 16,8062 |
| 16,9511 | 900,3 | 200 | 5 | 108,9197143 | 142,21576 | 29,106895 | -99,89886 | 16,9511 |
| 17,096 | 850,7 | 200 | 5 | 108,9936468 | 142,32603 | 28,996632 | -100,0091 | 17,096 |
| 17,2409 | 800,2 | 200 | 5 | 109,0669552 | 142,43536 | 28,887298 | -100,1185 | 17,2409 |
| 17,3858 | 749 | 200 | 5 | 109,1396502 | 142,54378 | 28,77888 | -100,2269 | 17,3858 |
| 17,5306 | 705,2 | 200 | 5 | 109,2116922 | 142,65122 | 28,671436 | -100,3343 | 17,5306 |
| 17,6755 | 657,9 | 200 | 5 | 109,2831907 | 142,75785 | 28,564802 | -100,441 | 17,6755 |

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|---------|-------|-----|---|-------------|-----------|-----------|-----------|---------|
| 17,8204 | 590,5 | 200 | 5 | 109,3541055 | 142,86362 | 28,459039 | -100,5467 | 17,8204 |
| 17,9653 | 519,6 | 200 | 5 | 109,424446 | 142,96852 | 28,354132 | -100,6516 | 17,9653 |
| 18,1102 | 450,8 | 200 | 5 | 109,4942215 | 143,07259 | 28,250068 | -100,7557 | 18,1102 |
| 18,255 | 412,6 | 200 | 5 | 109,5633933 | 143,17575 | 28,146904 | -100,8589 | 18,255 |
| 18,3999 | 408,5 | 200 | 5 | 109,6320658 | 143,27817 | 28,044485 | -100,9613 | 18,3999 |
| 18,5448 | 405,6 | 200 | 5 | 109,7001997 | 143,37979 | 27,94287 | -101,0629 | 18,5448 |
| 18,6897 | 343,7 | 200 | 5 | 109,7678032 | 143,48061 | 27,842045 | -101,1637 | 18,6897 |
| 18,8346 | 278,4 | 200 | 5 | 109,8348846 | 143,58066 | 27,741999 | -101,2638 | 18,8346 |
| 18,9795 | 252,4 | 200 | 5 | 109,9014519 | 143,67994 | 27,642719 | -101,363 | 18,9795 |
| 19,1243 | 303,1 | 200 | 5 | 109,9674675 | 143,77839 | 27,544263 | -101,4615 | 19,1243 |
| 19,2692 | 383,7 | 200 | 5 | 110,0330303 | 143,87617 | 27,446482 | -101,5593 | 19,2692 |
| 19,4141 | 455,8 | 200 | 5 | 110,0981018 | 143,97322 | 27,349433 | -101,6563 | 19,4141 |
| 19,559 | 514 | 200 | 5 | 110,1626895 | 144,06955 | 27,253106 | -101,7527 | 19,559 |
| 19,7039 | 521,1 | 200 | 5 | 110,2268005 | 144,16517 | 27,157491 | -101,8483 | 19,7039 |
| 19,8487 | 479,2 | 200 | 5 | 110,2903979 | 144,26002 | 27,06264 | -101,9431 | 19,8487 |
| 19,9936 | 431,5 | 200 | 5 | 110,3535766 | 144,35424 | 26,968415 | -102,0373 | 19,9936 |
| 20,1385 | 385,8 | 200 | 5 | 110,416299 | 144,44779 | 26,87487 | -102,1309 | 20,1385 |
| 20,2834 | 357,6 | 200 | 5 | 110,4785717 | 144,54066 | 26,781996 | -102,2238 | 20,2834 |
| 20,4283 | 332,2 | 200 | 5 | 110,5404011 | 144,63287 | 26,689783 | -102,316 | 20,4283 |
| 20,5731 | 313,5 | 200 | 5 | 110,6017513 | 144,72437 | 26,598284 | -102,4075 | 20,5731 |
| 20,718 | 336 | 200 | 5 | 110,6627131 | 144,81529 | 26,507365 | -102,4984 | 20,718 |
| 20,8629 | 343,4 | 200 | 5 | 110,7232501 | 144,90558 | 26,417079 | -102,5887 | 20,8629 |
| 21,0078 | 349,2 | 200 | 5 | 110,7833681 | 144,99524 | 26,327419 | -102,6783 | 21,0078 |
| 21,1527 | 363,6 | 200 | 5 | 110,8430728 | 145,08428 | 26,238374 | -102,7674 | 21,1527 |
| 21,2976 | 393,4 | 200 | 5 | 110,9023699 | 145,17272 | 26,149938 | -102,8558 | 21,2976 |
| 21,4424 | 403,7 | 200 | 5 | 110,9612244 | 145,2605 | 26,062161 | -102,9436 | 21,4424 |
| 21,5873 | 412,8 | 200 | 5 | 111,0197231 | 145,34774 | 25,974916 | -103,0308 | 21,5873 |
| 21,7322 | 427,5 | 200 | 5 | 111,0778304 | 145,4344 | 25,888254 | -103,1175 | 21,7322 |
| 21,8771 | 434,9 | 200 | 5 | 111,1355516 | 145,52049 | 25,802168 | -103,2036 | 21,8771 |
| 22,022 | 460 | 200 | 5 | 111,1928917 | 145,60601 | 25,71665 | -103,2891 | 22,022 |
| 22,1668 | 493,2 | 200 | 5 | 111,2498166 | 145,69091 | 25,631751 | -103,374 | 22,1668 |
| 22,3117 | 525,1 | 200 | 5 | 111,3064098 | 145,77531 | 25,547347 | -103,4584 | 22,3117 |
| 22,4566 | 531,7 | 200 | 5 | 111,3626366 | 145,85917 | 25,46349 | -103,5423 | 22,4566 |
| 22,6015 | 541,6 | 200 | 5 | 111,4185018 | 145,94248 | 25,380172 | -103,6256 | 22,6015 |
| 22,7464 | 566,9 | 200 | 5 | 111,47401 | 146,02527 | 25,297386 | -103,7084 | 22,7464 |
| 22,8912 | 568,6 | 200 | 5 | 111,5291278 | 146,10747 | 25,215183 | -103,7906 | 22,8912 |
| 23,0361 | 553,6 | 200 | 5 | 111,5839357 | 146,18921 | 25,133442 | -103,8723 | 23,0361 |
| 23,181 | 541,7 | 200 | 5 | 111,6383999 | 146,27044 | 25,052213 | -103,9535 | 23,181 |
| 23,3259 | 510,7 | 200 | 5 | 111,6925248 | 146,35117 | 24,971491 | -104,0343 | 23,3259 |
| 23,4708 | 457,5 | 200 | 5 | 111,7463144 | 146,43139 | 24,891268 | -104,1145 | 23,4708 |
| 23,6157 | 415,2 | 200 | 5 | 111,799773 | 146,51112 | 24,811539 | -104,1942 | 23,6157 |
| 23,7605 | 412,2 | 200 | 5 | 111,8528681 | 146,5903 | 24,732353 | -104,2734 | 23,7605 |
| 23,9054 | 462,1 | 200 | 5 | 111,9056769 | 146,66906 | 24,653593 | -104,3522 | 23,9054 |
| 24,0503 | 503,7 | 200 | 5 | 111,9581665 | 146,74735 | 24,575309 | -104,4304 | 24,0503 |
| 24,1952 | 520,5 | 200 | 5 | 112,0103409 | 146,82516 | 24,497496 | -104,5083 | 24,1952 |
| 24,3401 | 526,4 | 200 | 5 | 112,0622037 | 146,90251 | 24,420147 | -104,5856 | 24,3401 |
| 24,4849 | 516,1 | 200 | 5 | 112,1137233 | 146,97935 | 24,34331 | -104,6624 | 24,4849 |
| 24,6298 | 497,5 | 200 | 5 | 112,1649743 | 147,05578 | 24,266874 | -104,7389 | 24,6298 |

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|---------|-------|-----|---|-------------|-----------|-----------|-----------|---------|
| 24,7747 | 521,8 | 200 | 5 | 112,2159247 | 147,13177 | 24,190885 | -104,8149 | 24,7747 |
| 24,9196 | 550,3 | 200 | 5 | 112,2665779 | 147,20732 | 24,115341 | -104,8904 | 24,9196 |
| 25,0645 | 539,8 | 200 | 5 | 112,3169375 | 147,28242 | 24,040234 | -104,9655 | 25,0645 |
| 25,2093 | 498,8 | 200 | 5 | 112,3669723 | 147,35705 | 23,965611 | -105,0401 | 25,2093 |
| 25,3542 | 457,1 | 200 | 5 | 112,4167548 | 147,43129 | 23,891365 | -105,1144 | 25,3542 |
| 25,4991 | 432,6 | 200 | 5 | 112,4662536 | 147,50511 | 23,817542 | -105,1882 | 25,4991 |
| 25,644 | 435,9 | 200 | 5 | 112,5154719 | 147,57852 | 23,744137 | -105,2616 | 25,644 |
| 25,7889 | 422 | 200 | 5 | 112,5644129 | 147,65151 | 23,671146 | -105,3346 | 25,7889 |
| 25,9338 | 414,2 | 200 | 5 | 112,6130797 | 147,72409 | 23,598563 | -105,4072 | 25,9338 |
| 26,0786 | 383 | 200 | 5 | 112,661442 | 147,79622 | 23,526435 | -105,4793 | 26,0786 |
| 26,2235 | 317,3 | 200 | 5 | 112,7095697 | 147,868 | 23,454657 | -105,5511 | 26,2235 |
| 26,3684 | 260,5 | 200 | 5 | 112,7574321 | 147,93938 | 23,383274 | -105,6225 | 26,3684 |
| 26,5133 | 216,9 | 200 | 5 | 112,8050323 | 148,01037 | 23,312283 | -105,6935 | 26,5133 |
| 26,6582 | 163,4 | 200 | 5 | 112,852373 | 148,08098 | 23,241678 | -105,7641 | 26,6582 |
| 26,803 | 129,2 | 200 | 5 | 112,8994247 | 148,15115 | 23,171505 | -105,8343 | 26,803 |
| 26,9479 | 142 | 200 | 5 | 112,9462551 | 148,221 | 23,101661 | -105,9041 | 26,9479 |
| 27,0928 | 150,3 | 200 | 5 | 112,9928344 | 148,29046 | 23,032192 | -105,9736 | 27,0928 |
| 27,2377 | 109,1 | 200 | 5 | 113,0391652 | 148,35956 | 22,963094 | -106,0427 | 27,2377 |
| 27,3826 | 77 | 200 | 5 | 113,0852502 | 148,42829 | 22,894362 | -106,1114 | 27,3826 |
| 27,5275 | 109,8 | 200 | 5 | 113,131092 | 148,49666 | 22,825993 | -106,1798 | 27,5275 |
| 27,6723 | 170,6 | 200 | 5 | 113,1766617 | 148,56463 | 22,75803 | -106,2477 | 27,6723 |
| 27,8172 | 233 | 200 | 5 | 113,2220248 | 148,63228 | 22,690375 | -106,3154 | 27,8172 |
| 27,9621 | 261,5 | 200 | 5 | 113,2671523 | 148,69959 | 22,623071 | -106,3827 | 27,9621 |
| 28,107 | 266,3 | 200 | 5 | 113,3120464 | 148,76654 | 22,556116 | -106,4496 | 28,107 |
| 28,2519 | 280,6 | 200 | 5 | 113,3567098 | 148,83315 | 22,489504 | -106,5163 | 28,2519 |
| 28,3967 | 313,5 | 200 | 5 | 113,401114 | 148,89938 | 22,423279 | -106,5825 | 28,3967 |
| 28,5416 | 325,9 | 200 | 5 | 113,4453229 | 148,96531 | 22,357345 | -106,6484 | 28,5416 |
| 28,6865 | 279,8 | 200 | 5 | 113,4893078 | 149,03091 | 22,291746 | -106,714 | 28,6865 |
| 28,8314 | 284,5 | 200 | 5 | 113,5330712 | 149,09618 | 22,226476 | -106,7793 | 28,8314 |
| 28,9763 | 309,9 | 200 | 5 | 113,5766152 | 149,16112 | 22,161534 | -106,8442 | 28,9763 |

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