

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
0,1448	2046,1	55,8	0	67,55112781	85,132382	81,190275	-47,81548	0,1448
0,2896	2051	50,9	4	73,57172772	95,61564	74,707017	-54,29874	0,2896
0,4344	1987,4	114,5	3	77,0935529	97,52285	71,799807	-57,20595	0,4344
0,5793	1905,8	196,1	1	79,59382714	98,583674	68,738983	-60,26677	0,5793
0,7241	1875,4	200	1,5	81,53172752	101,36897	66,453686	-62,55207	0,7241
0,8689	1854,2	200	2,5	83,11515252	103,73051	65,092146	-63,91361	0,8689
1,0137	1825,9	166,78571	3	84,4539455	106,82026	62,502401	-66,50336	1,0137
1,1585	1813,1	200	3	85,61367734	107,45684	61,865814	-67,13994	1,1585
1,3033	1897	200	4,5	86,63664448	108,98251	61,840148	-67,16561	1,3033
1,4482	1968,6	193,18889	5	87,55232744	110,57198	60,750674	-68,25508	1,4482
1,593	2023,9	181,67	5	88,38007209	112,21491	59,107744	-69,89801	1,593
1,7378	2057,7	181	5	89,13575243	113,37697	57,945682	-71,06007	1,7378
1,8826	2116,1	163,25455	5	89,83091766	115,12359	56,199065	-72,80669	1,8826
2,0274	2187,9	142,48333	5	90,47454542	117,03769	54,284968	-74,72079	2,0274
2,1722	2252	119,97692	5	91,07375276	119,15691	52,165748	-76,84001	2,1722
2,317	2274,7	99,064286	5	91,63427725	121,382	49,940654	-79,0651	2,317
2,4619	2275,6	78,478571	5	92,16116474	123,87784	47,444814	-81,56094	2,4619
2,6067	2302,4	59,88	5	92,65757761	126,62783	44,694831	-84,31093	2,6067
2,7515	2344,4	40,98125	5	93,12714692	130,15899	41,163667	-87,84209	2,7515
2,8963	2369,6	30	5	93,57262746	133,20573	38,116931	-90,88883	2,8963
3,0411	2359,1	30	5	93,9963706	133,95204	37,370616	-91,63514	3,0411
3,1859	2326,7	30	5	94,40039937	134,66363	36,659023	-92,34673	3,1859
3,3308	2294,7	30	5	94,78672769	135,34405	35,978605	-93,02715	3,3308
3,4756	2281	30	5	95,15635234	135,99505	35,327607	-93,67815	3,4756
3,6204	2298,1	30	5	95,5108877	136,61947	34,703184	-94,30257	3,6204
3,7652	2354,5	30	5	95,85151757	137,2194	34,103252	-94,9025	3,7652

3,91	2441,4	30	5	96,17929172	137,79669	33,525962	-95,47979	3,91
4,0548	2533	30	5	96,49514533	138,35299	32,969667	-96,03609	4,0548
4,1997	2590	30	5	96,80012194	138,89013	32,432529	-96,57323	4,1997
4,3445	2560	30	5	97,0945526	139,40869	31,913965	-97,09179	4,3445
4,4893	2453,5	30	5	97,37932914	139,91025	31,412405	-97,59335	4,4893
4,6341	2332,5	30	5	97,6550646	140,39589	30,926768	-98,07899	4,6341
4,7789	2206,3	30	5	97,92231543	140,86658	30,456074	-98,54968	4,7789
4,9237	2104	30	5	98,18158824	141,32323	29,999432	-99,00632	4,9237
5,0685	2026,1	30	5	98,43334559	141,76663	29,556026	-99,44973	5,0685
5,2134	1977,3	30	5	98,67817753	142,19784	29,124817	-99,88094	5,2134
5,3582	1942,4	30	5	98,91613497	142,61694	28,705716	-100,3	5,3582
5,503	1897,7	30	5	99,14774683	143,02486	28,297792	-100,708	5,503
5,6478	1843,9	30	5	99,37334275	143,42219	27,900463	-101,1053	5,6478
5,7926	1801,8	30	5	99,59322737	143,80946	27,513192	-101,4926	5,7926
5,9374	1791,5	30	5	99,80768274	144,18717	27,135484	-101,8703	5,9374
6,0823	1778,2	30	5	100,0171133	144,55603	26,766626	-102,2391	6,0823
6,2271	1751,4	30	5	100,2214734	144,91596	26,406699	-102,5991	6,2271
6,3719	1708	30	5	100,4211356	145,26761	26,055045	-102,9507	6,3719
6,5167	1745,7	30	5	100,6163111	145,61136	25,711293	-103,2945	6,5167
6,6615	1804,4	30	5	100,8071972	145,94756	25,375097	-103,6307	6,6615
6,8063	1877,4	30	5	100,9939783	146,27653	25,04613	-103,9596	6,8063
6,9511	1940,5	30	5	101,1768273	146,59857	24,724088	-104,2817	6,9511
7,096	1991	30	5	101,3560287	146,91419	24,408471	-104,5973	7,096
7,2408	2040	30	5	101,5314876	147,22321	24,099446	-104,9063	7,2408
7,3856	2100,4	30	5	101,7034722	147,52612	23,796539	-105,2092	7,3856
7,5304	2138,8	30	5	101,8721175	147,82314	23,499514	-105,5062	7,5304
7,6752	2175,7	30	5	102,0375506	148,11451	23,208146	-105,7976	7,6752
7,82	2233	30	5	102,1998916	148,40043	22,922224	-106,0835	7,82
7,9649	2305,1	30	5	102,3593631	148,6813	22,641356	-106,3644	7,9649
8,1097	2378,2	30	5	102,5158523	148,95692	22,36574	-106,64	8,1097
8,2545	2420,7	30	5	102,669572	149,22765	22,095003	-106,9108	8,2545
8,3993	2427	30	5	102,8206184	149,49368	21,828973	-107,1768	8,3993
8,5441	2425,6	30	5	102,969083	149,75517	21,567491	-107,4383	8,5441
8,6889	2404,6	30	5	103,1150526	150,01225	21,310403	-107,6954	8,6889
8,8337	2370	30	5	103,2586095	150,26509	21,057565	-107,9482	8,8337
8,9786	2364,3	30	5	103,3999291	150,51399	20,808666	-108,1971	8,9786
9,1234	2389,4	30	5	103,5388909	150,75874	20,563921	-108,4418	9,1234
9,2682	2399,1	30	5	103,6756645	150,99963	20,323029	-108,6827	9,2682
9,413	2386,5	30	5	103,8103177	151,23678	20,085872	-108,9199	9,413
9,5578	2360,4	30	5	103,9429153	151,47032	19,852336	-109,1534	9,5578
9,7026	2324,6	30	5	104,0735191	151,70035	19,622311	-109,3834	9,7026
9,8475	2248,2	30	5	104,2022764	151,92712	19,395538	-109,6102	9,8475
9,9923	2202	30	5	104,3290659	152,15043	19,172231	-109,8335	9,9923
10,1371	2235,5	30	5	104,4540312	152,37052	18,952137	-110,0536	10,1371
10,2819	2280,7	30	5	104,5772241	152,58749	18,735164	-110,2706	10,2819
10,4267	2306,4	30	5	104,6986941	152,80143	18,521226	-110,4845	10,4267
10,5715	2313	30	5	104,8184889	153,01242	18,310238	-110,6955	10,5715
10,7164	2320,2	30	5	104,9367349	153,22068	18,101978	-110,9038	10,7164

10,8612	2333,9	30	5	105,0533128	153,426	17,896656	-111,1091	10,8612
11,006	2341,1	30	5	105,1683467	153,6286	17,694054	-111,3117	11,006
11,1508	2355,8	30	5	105,2818771	153,82856	17,494099	-111,5117	11,1508
11,2956	2319,5	30	5	105,3939427	154,02593	17,296724	-111,709	11,2956
11,4404	2254,6	30	5	105,5045808	154,22079	17,101864	-111,9039	11,4404
11,5852	2207,5	30	5	105,6138273	154,4132	16,909454	-112,0963	11,5852
11,7301	2159,3	30	5	105,7217909	154,60335	16,719304	-112,2865	11,7301
11,8749	2119,3	30	5	105,8283558	154,79104	16,531617	-112,4741	11,8749
12,0197	2077,6	30	5	105,9336291	154,97645	16,346205	-112,6596	12,0197
12,1645	2004,3	30	5	106,0376418	155,15964	16,163014	-112,8427	12,1645
12,3093	1919,9	30	5	106,1404237	155,34067	15,98199	-113,0238	12,3093
12,4541	1846,8	30	5	106,2420035	155,51957	15,803083	-113,2027	12,4541
12,599	1784,6	30	5	106,3424781	155,69653	15,626123	-113,3796	12,599
12,7438	1729,5	30	5	106,4417355	155,87135	15,451307	-113,5544	12,7438
12,8886	1680,4	30	5	106,5398715	156,04419	15,278466	-113,7273	12,8886
13,0334	1632	30	5	106,6369111	156,2151	15,107555	-113,8982	13,0334
13,1782	1591,5	30	5	106,7328785	156,38412	14,938533	-114,0672	13,1782
13,323	1554,4	30	5	106,8277971	156,5513	14,771359	-114,2344	13,323
13,4678	1513,9	30	5	106,9216897	156,71667	14,605991	-114,3998	13,4678
13,6127	1509,2	30	5	107,014642	156,88038	14,442279	-114,5635	13,6127
13,7575	1542,2	30	5	107,106547	157,04224	14,280412	-114,7253	13,7575
13,9023	1584,8	30	5	107,1974897	157,20242	14,12024	-114,8855	13,9023
14,0471	1607,8	30	5	107,2874901	157,36093	13,961728	-115,044	14,0471
14,1919	1608,6	30	5	107,3765674	157,51782	13,804841	-115,2009	14,1919
14,3367	1580,8	30	5	107,4647405	157,67311	13,649547	-115,3562	14,3367
14,4816	1538,5	30	5	107,5520875	157,82695	13,495707	-115,51	14,4816
14,6264	1515,2	30	5	107,6385055	157,97915	13,343504	-115,6623	14,6264
14,7712	1508	30	5	107,7240721	158,12986	13,192801	-115,813	14,7712
14,916	1518,2	32,015476	5	107,8088041	157,67175	13,650909	-115,3548	14,916
15,0608	1536,2	32,015476	5	107,8927174	157,81876	13,503893	-115,5019	15,0608
15,2056	1558,9	32,015476	5	107,9758278	157,96437	13,358284	-115,6475	15,2056
15,3505	1595,1	32,015476	5	108,0582071	158,1087	13,213956	-115,7918	15,3505
15,4953	1635,1	32,015476	5	108,1397564	158,25157	13,071082	-115,9347	15,4953
15,6401	1689,9	32,015476	5	108,2205471	158,39312	12,929538	-116,0762	15,6401
15,7849	1598,7	32,015476	5	108,3005933	158,53336	12,789297	-116,2165	15,7849
15,9297	1507,3	32,015476	5	108,3799085	158,67232	12,650337	-116,3554	15,9297
16,0745	1487	32,015476	5	108,458506	158,81002	12,512635	-116,4931	16,0745
16,2193	1433,8	32,015476	5	108,5363987	158,94649	12,376167	-116,6296	16,2193
16,3642	1404,1	32,015476	5	108,6136521	159,08184	12,24082	-116,7649	16,3642
16,509	1404,8	32,015476	5	108,6901719	159,2159	12,106757	-116,899	16,509
16,6538	1449,5	32,015476	5	108,7660235	159,34879	11,973866	-117,0319	16,6538
16,7986	1495,7	32,015476	5	108,8412184	159,48053	11,842125	-117,1636	16,7986
16,9434	1519,3	32,015476	5	108,9157678	159,61114	11,711514	-117,2942	16,9434
17,0882	1547	32,015476	5	108,9896829	159,74064	11,582016	-117,4237	17,0882
17,2331	1593,9	32,015476	5	109,0630247	159,86914	11,453521	-117,5522	17,2331
17,3779	1649,2	32,015476	5	109,1357024	159,99647	11,32619	-117,6796	17,3779
17,5227	1677,9	32,015476	5	109,2077771	160,12274	11,199916	-117,8058	17,5227
17,6675	1754,2	32,015476	5	109,2792586	160,24798	11,074681	-117,9311	17,6675

17,8123	1805,2	32,015476	5	109,3501566	160,37219	10,950468	-118,0553	17,8123
17,9571	1867,3	32,015476	5	109,4204806	160,4954	10,82726	-118,1785	17,9571
18,1019	1932,5	32,015476	5	109,4902398	160,61761	10,705043	-118,3007	18,1019
18,2468	1920,7	32,015476	5	109,5594908	160,73894	10,583715	-118,422	18,2468
18,3916	1865,2	32,015476	5	109,6281468	160,85923	10,46343	-118,5423	18,3916
18,5364	1817,8	32,015476	5	109,6962644	160,97857	10,344089	-118,6617	18,5364
18,6812	1781,8	32,015476	5	109,763852	161,09698	10,225676	-118,7801	18,6812
18,826	1750,8	32,015476	5	109,8309177	161,21448	10,108177	-118,8976	18,826
18,9708	1722,6	32,015476	5	109,8974695	161,33108	9,9915785	-119,0142	18,9708
19,1157	1702,6	32,015476	5	109,9635607	161,44687	9,8757871	-119,13	19,1157
19,2605	1724,3	32,015476	5	110,0291077	161,56171	9,760949	-119,2448	19,2605
19,4053	1756,5	32,015476	5	110,0941638	161,67569	9,6469711	-119,3588	19,4053
19,5501	1774,8	32,015476	5	110,1587362	161,78882	9,5338406	-119,4719	19,5501
19,6949	1767,9	32,015476	5	110,2228322	161,90111	9,4215448	-119,5842	19,6949
19,8397	1747,4	32,015476	5	110,2864586	162,01258	9,3100717	-119,6957	19,8397
19,9845	1759,9	32,015476	5	110,3496223	162,12325	9,1994092	-119,8063	19,9845
20,1294	1832	32,015476	5	110,4123732	162,23319	9,08947	-119,9163	20,1294
20,2742	1905,6	32,015476	5	110,4746311	162,34226	8,9803945	-120,0254	20,2742
20,419	1936,8	32,015476	5	110,536446	162,45056	8,8720952	-120,1337	20,419
20,5638	1974,8	32,015476	5	110,597824	162,5581	8,7645612	-120,2412	20,5638
20,7086	1982,2	32,015476	5	110,6587714	162,66487	8,6577817	-120,348	20,7086
20,8534	1921,5	32,015476	5	110,719294	162,77091	8,5517463	-120,454	20,8534
20,9983	1825,2	32,015476	5	110,7794393	162,87628	8,4463722	-120,5594	20,9983
21,1431	1755,3	32,015476	5	110,8391299	162,98086	8,3417946	-120,664	21,1431
21,2879	1722,3	32,015476	5	110,898413	163,08473	8,2379309	-120,7678	21,2879
21,4327	1705,8	32,015476	5	110,9572943	163,18789	8,1347712	-120,871	21,4327
21,5775	1703,4	32,015476	5	111,0157791	163,29035	8,0323061	-120,9735	21,5775
21,7223	1679,1	32,015476	5	111,0738727	163,39213	7,9305264	-121,0752	21,7223
21,8672	1643	32,015476	5	111,1316201	163,4933	7,8293533	-121,1764	21,8672
22,012	1613,6	32,015476	5	111,1889467	163,59374	7,7289175	-121,2768	22,012
22,1568	1655,1	32,015476	5	111,2458973	163,69352	7,6291402	-121,3766	22,1568
22,3016	1725,3	32,015476	5	111,302477	163,79264	7,5300129	-121,4757	22,3016
22,4464	1785,1	32,015476	5	111,3586905	163,89113	7,4315271	-121,5742	22,4464
22,5912	1850,3	32,015476	5	111,4145426	163,98898	7,3336746	-121,6721	22,5912
22,736	1918,9	32,015476	5	111,4700378	164,08621	7,2364473	-121,7693	22,736
22,8809	1949,4	32,015476	5	111,5252186	164,18289	7,1397708	-121,866	22,8809
23,0257	1923	32,015476	5	111,5800134	164,27889	7,0437706	-121,962	23,0257
23,1705	1859,8	32,015476	5	111,6344647	164,37428	6,9483723	-122,0574	23,1705
23,3153	1795,4	32,015476	5	111,6885767	164,46909	6,8535683	-122,1522	23,3153
23,4601	1736,2	32,015476	5	111,7423538	164,56331	6,7593512	-122,2464	23,4601
23,6049	1683,3	32,015476	5	111,7957999	164,65694	6,6657139	-122,34	23,6049
23,7498	1634,7	32,015476	5	111,8489557	164,75007	6,5725852	-122,4332	23,7498
23,8946	1567,1	32,015476	5	111,9017519	164,84257	6,4800866	-122,5257	23,8946
24,0394	1549,7	32,015476	5	111,9542291	164,93451	6,3881468	-122,6176	24,0394
24,1842	1585	32,015476	5	112,0063911	165,0259	6,2967592	-122,709	24,1842
24,329	1612,9	32,015476	5	112,0582417	165,11674	6,2059172	-122,7998	24,329
24,4738	1600,5	32,015476	5	112,1097847	165,20704	6,1156142	-122,8901	24,4738
24,6186	1553,6	32,015476	5	112,1610236	165,29681	6,0258439	-122,9799	24,6186

24,7635	1500,6	32,015476	5	112,2119971	165,38612	5,9365386	-123,0692	24,7635
24,9083	1452,3	32,015476	5	112,2626383	165,47484	5,8478154	-123,1579	24,9083
25,0531	1441,9	32,015476	5	112,312986	165,56305	5,7596066	-123,2461	25,0531
25,1979	1478,6	32,015476	5	112,3630435	165,65075	5,6719061	-123,3339	25,1979
25,3427	1532,2	32,015476	5	112,4128142	165,73795	5,5847081	-123,421	25,3427
25,4875	1572,7	32,015476	5	112,4623013	165,82465	5,4980069	-123,5077	25,4875
25,6324	1610,5	32,015476	5	112,511542	165,91092	5,4117375	-123,594	25,6324
25,7772	1650,5	32,015476	5	112,5604714	165,99664	5,3260135	-123,6797	25,7772
25,922	1699,1	32,015476	5	112,6091267	166,08189	5,2407697	-123,765	25,922
26,0668	1671,8	32,015476	5	112,657511	166,16666	5,1560007	-123,8498	26,0668
26,2116	1617,4	32,015476	5	112,7056272	166,25096	5,0717013	-123,9341	26,2116
26,3564	1576,3	32,015476	5	112,7534784	166,33479	4,9878663	-124,0179	26,3564
26,5012	1539,8	32,015476	5	112,8010674	166,41817	4,9044907	-124,1013	26,5012
26,6461	1543,3	32,015476	5	112,8484296	166,50114	4,8215122	-124,1842	26,6461
26,7909	1565,1	32,015476	5	112,8955026	166,58362	4,7390406	-124,2667	26,7909
26,9357	1565,8	32,015476	5	112,9423219	166,66564	4,6570135	-124,3487	26,9357
27,0805	1542	32,015476	5	112,9888901	166,74723	4,5754262	-124,4303	27,0805
27,2253	1522,1	32,015476	5	113,0352101	166,82838	4,4942739	-124,5115	27,2253
27,3701	1516,3	32,015476	5	113,0812843	166,9091	4,4135522	-124,5922	27,3701
27,515	1526,3	32,015476	5	113,1271469	166,98946	4,3332011	-124,6726	27,515
27,6598	1547,7	32,015476	5	113,1727373	167,06933	4,253327	-124,7524	27,6598
27,8046	1565,2	32,015476	5	113,2180896	167,14879	4,17387	-124,8319	27,8046
27,9494	1531,7	32,015476	5	113,2632064	167,22783	4,0948257	-124,9109	27,9494
28,0942	1468,6	32,015476	5	113,30809	167,30647	4,0161898	-124,9896	28,0942
28,239	1393,4	32,015476	5	113,3527428	167,3847	3,9379582	-125,0678	28,239
28,3839	1307,4	32,015476	5	113,3971979	167,46258	3,8600731	-125,1457	28,3839
28,5287	1256,5	32,015476	5	113,4413962	167,54002	3,782638	-125,2231	28,5287
28,6735	1297,3	32,015476	5	113,4853707	167,61706	3,7055949	-125,3002	28,6735
28,8183	1373	32,015476	5	113,5291237	167,69372	3,6289398	-125,3768	28,8183
28,9631	1448,7	32,015476	5	113,5726574	167,76999	3,552669	-125,4531	28,9631

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