

Ganancia antena tx	11
Campo minimo Servicio	42,39464
Campo minimo proteccion	30,37404
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)
0,00	483,20	30,00	11	0	0	178,394	49,3894	0
0,1015	489	30,00	8,5	64,463966	81,93881	93,95524	-35,049409	0,1015
0,2031	504	30,00	10	70,488843	92,55008	84,84396	-44,160681	0,2031
0,3046	519,8	30,00	5	74,009243	98,75036	73,64369	-55,36096	0,3046
0,4061	542,7	30,00	-2	76,507305	103,1501	62,24399	-66,760653	0,4061
0,5077	573,8	30,00	-14	78,446788	106,566	46,82809	-82,176554	0,5077
0,6092	600,2	30,00	-5	80,029843	109,3541	53,03995	-75,964698	0,6092
0,7107	626,4	30,00	-5	81,368371	111,7116	50,68247	-78,322171	0,7107
0,8123	651,7	30,00	-3	82,528974	113,7557	50,63837	-78,366275	0,8123
0,9138	670,1	30,00	-3	83,551668	115,5569	48,83716	-80,167487	0,9138
1,0153	691,5	30,00	-3	84,466533	117,1682	47,22586	-81,778786	1,0153
1,1169	719,9	30,00	-3	85,294931	118,6272	45,76685	-83,237796	1,1169
1,2184	759,1	30,00	-1	86,050443	119,9578	46,43621	-82,568436	1,2184
1,3199	790,9	30,00	1	86,745465	121,1819	47,2121	-81,79254	1,3199
1,4215	820,9	30,00	1	87,389582	122,3164	46,07766	-82,926986	1,4215
1,523	859,8	30,00	1	87,988643	123,3715	45,02257	-83,982077	1,523
1,6246	903,8	30,00	0,5	88,549574	124,3594	43,53463	-85,470013	1,6246
1,7261	960,6	30,00	0	89,075964	125,2865	42,10753	-86,897114	1,7261
1,8276	1015,2	30,00	-1	89,572268	126,1606	40,23342	-88,771225	1,8276
1,9292	1064,8	30,00	-1	90,04219	126,9883	39,40577	-89,598872	1,9292
2,0307	1107,7	30,00	-5	90,48756	127,7727	34,62137	-94,383277	2,0307
2,1322	1142,5	30,00	-5	90,911204	128,5188	33,87523	-95,129416	2,1322
2,2338	1162,9	30,00	-5	91,315531	129,2309	33,16311	-95,841534	2,2338
2,3353	1185,2	30,00	-1	91,701498	129,9107	36,48333	-92,521317	2,3353

2,4368	1204,1	30,00	-1	92,071042	130,5616	35,83247	-93,172174	2,4368
2,5384	1221,8	30,00	-1	92,425846	131,1865	35,20758	-93,797069	2,5384
2,6399	1237,2	30,00	-1	92,766394	131,7863	34,60779	-94,396858	2,6399
2,7414	1257,3	30,00	-1	93,094093	132,3634	34,03063	-94,974014	2,7414
2,843	1280,5	30,00	0	93,410182	132,9201	34,47392	-94,530724	2,843
2,9445	1300,3	30,00	0	93,714876	133,4568	33,93728	-95,067364	2,9445
3,046	1320,6	30,00	0	94,009243	133,9752	33,41883	-95,585815	3,046
3,1476	1337,1	30,00	0	94,294236	134,4772	32,91689	-96,087757	3,1476
3,2491	1340,8	30,00	0	94,569906	134,9627	32,43136	-96,57328	3,2491
3,3506	1330,3	30,00	0,5	94,837096	135,4333	32,46078	-96,543867	3,3506
3,4522	1310,7	30,00	1	95,096564	135,8903	32,50379	-96,500852	3,4522
3,5537	1296,6	30,00	1	95,34826	136,3336	32,06049	-96,94415	3,5537
3,6552	1293,7	30,00	-1	95,592868	136,7644	29,62968	-99,374963	3,6552
3,7568	1286,9	30,00	-1	95,831006	137,1838	29,21026	-99,794383	3,7568
3,8583	1289	30,00	-1	96,062565	137,5916	28,80243	-100,20221	3,8583
3,9598	1311,2	30,00	-1	96,28811	137,9889	28,40519	-100,59945	3,9598
4,0614	1337,6	30,00	-1	96,50816	138,3764	28,01763	-100,98702	4,0614
4,1629	1337	30,00	-3	96,722564	138,754	25,64001	-103,36463	4,1629
4,2644	1320,7	30,00	-3	96,931803	139,1226	25,27149	-103,73315	4,2644
4,366	1343,2	30,00	-3	97,136319	139,4828	24,91129	-104,09336	4,366
4,4675	1371,2	30,00	-3	97,335936	139,8343	24,55971	-104,44493	4,4675
4,5691	1410,6	30,00	-3	97,531258	140,1783	24,21571	-104,78894	4,5691
4,6706	1419,5	30,00	-3	97,722098	140,5145	23,87959	-105,12506	4,6706
4,7721	1379,8	30,00	-3	97,908835	140,8433	23,5507	-105,45395	4,7721
4,8737	1312,5	30,00	-5	98,091821	141,1656	21,22842	-107,77623	4,8737
4,9752	1264	30,00	-14	98,270856	141,481	11,91309	-117,09155	4,9752
5,0767	1241,3	30,00	-8	98,446275	141,7899	17,60414	-111,40051	5,0767
5,1783	1222,7	30,00	-8	98,618389	142,093	17,301	-111,70364	5,1783
5,2798	1196,3	30,00	-8	98,786994	142,39	17,00405	-112,0006	5,2798
5,3813	1198,8	30,00	-2	98,952389	142,6813	22,71275	-106,2919	5,3813
5,4829	1216,1	30,00	-2	99,114851	142,9674	22,42661	-106,57803	5,4829
5,5844	1251,3	30,00	-8	99,274175	143,248	16,14601	-112,85864	5,5844
5,6859	1271,5	30,00	-8	99,430629	143,5236	15,87045	-113,13419	5,6859
5,7875	1289,3	30,00	-8	99,584465	143,7945	15,59951	-113,40514	5,7875
5,889	1299,1	30,00	-8	99,735476	144,0605	15,33354	-113,6711	5,889
5,9905	1284,2	30,00	-8	99,883906	144,3219	15,07212	-113,93252	5,9905
6,0921	1270,1	30,00	-2	100,02999	144,5792	20,81484	-108,1898	6,0921
6,1936	1266,4	30,00	-2	100,17351	144,832	20,56206	-108,44258	6,1936
6,2951	1287,6	30,00	-2	100,3147	145,0807	20,31339	-108,69125	6,2951
6,3967	1310,5	30,00	-2	100,45376	145,3256	20,06846	-108,93618	6,3967
6,4982	1341	30,00	-2	100,59051	145,5664	19,82763	-109,17702	6,4982
6,5997	1376,9	30,00	-8	100,72513	145,8035	13,59052	-115,41412	6,5997
6,7013	1399,4	30,00	-8	100,85783	146,0372	13,35681	-115,64783	6,7013
6,8028	1414,2	30,00	-8	100,9884	146,2672	13,12684	-115,8778	6,8028
6,9043	1426,7	30,00	-8	101,11704	146,4938	12,90028	-116,10437	6,9043
7,0059	1427,8	30,00	-8	101,24392	146,7172	12,6768	-116,32784	7,0059
7,1074	1424,5	30,00	-2	101,36886	146,9373	18,45676	-110,54789	7,1074
7,2089	1450,6	30,00	-8	101,49202	147,1542	12,23983	-116,76481	7,2089

7,3105	1487,5	30,00	-8	101,61359	147,3683	12,02573	-116,97891	7,3105
7,412	1524,4	30,00	-8	101,73335	147,5792	11,8148	-117,18985	7,412
7,5136	1565,8	30,00	-8	101,85161	147,7875	11,60652	-117,39812	7,5136
7,6151	1611	30,00	-8	101,96816	147,9928	11,40125	-117,6034	7,6151
7,7166	1624	30,00	-8	102,08316	148,1954	11,19869	-117,80595	7,7166
7,8182	1587,7	30,00	-8	102,19678	148,3955	10,99859	-118,00606	7,8182
7,9197	1539	30,00	-8	102,30882	148,5928	10,80126	-118,20338	7,9197
8,0212	1491,9	30,00	-2	102,41943	148,7876	16,60644	-112,3982	8,0212
8,1228	1445,6	30,00	-2	102,52876	148,9802	16,41389	-112,59075	8,1228
8,2243	1387,6	30,00	2	102,63662	149,1701	20,22392	-108,78073	8,2243
8,3258	1332,7	30,00	2	102,74316	149,3578	20,03627	-108,96837	8,3258
8,4274	1281,8	30,00	5	102,84852	149,5433	22,85072	-106,15392	8,4274
8,5289	1231,5	30,00	5	102,95251	149,7265	22,66757	-106,33707	8,5289
8,6304	1173,5	30,00	8	103,05526	149,9075	25,48659	-103,51805	8,6304
8,732	1107,7	30,00	8	103,15692	150,0865	25,30755	-103,69709	8,732
8,8335	1081,6	30,00	8	103,2573	150,2633	25,13075	-103,87389	8,8335
8,935	1042,1	30,00	8	103,35654	150,4381	24,95598	-104,04867	8,935
9,0366	999,9	30,00	8,5	103,45475	150,611	25,283	-103,72164	9,0366
9,1381	961,5	30,00	8,5	103,55176	150,7819	25,11213	-103,89251	9,1381
9,2396	956,5	30,00	8,5	103,64771	150,9509	24,94315	-104,06149	9,2396
9,3412	957,8	30,00	8,5	103,7427	151,1182	24,77585	-104,22879	9,3412
9,4427	957,7	30,00	8,5	103,83657	151,2835	24,61052	-104,39412	9,4427
9,5442	940,4	30,00	8,5	103,92944	151,4471	24,44696	-104,55768	9,5442
9,6458	920,4	30,00	8,5	104,02141	151,6091	24,28497	-104,71967	9,6458
9,7473	912,5	30,00	10	104,11233	151,7692	25,62484	-103,37981	9,7473
9,8488	919,5	30,00	10	104,20231	151,9277	25,46636	-103,53828	9,8488
9,9504	926,2	30,00	10	104,29146	152,0847	25,30936	-103,69529	9,9504
10,0519	913,4	30,00	10	104,37961	152,2399	25,1541	-103,85055	10,0519
10,1535	888,9	30,00	10	104,46696	152,3938	25,00025	-104,00439	10,1535
10,255	890,1	30,00	10	104,55336	152,546	24,84808	-104,15656	10,255
10,3565	908,9	30,00	10	104,6389	152,6966	24,69741	-104,30723	10,3565
10,4581	892,5	30,00	10	104,7237	152,846	24,54807	-104,45658	10,4581
10,5596	861	30,00	10	104,80759	152,9937	24,40031	-104,60433	10,5596
10,6611	817,3	30,00	10	104,89069	153,1401	24,25397	-104,75068	10,6611
10,7627	788,5	30,00	10	104,97307	153,2852	24,10887	-104,89578	10,7627
10,8642	763,8	30,00	10,5	105,0546	153,4288	24,46527	-104,53937	10,8642
10,9657	734,5	30,00	10,5	105,13537	153,571	24,32301	-104,68163	10,9657
11,0673	705,2	30,00	10,5	105,21548	153,7121	24,18193	-104,82272	11,0673
11,1688	686,7	30,00	10,5	105,29478	153,8518	24,04227	-104,96238	11,1688
11,2703	677,1	30,00	10,5	105,37335	153,9902	23,90387	-105,10077	11,2703
11,3719	661,8	30,00	10,5	105,45131	154,1275	23,76658	-105,23807	11,3719
11,4734	647,1	30,00	10,5	105,52849	154,2634	23,63064	-105,374	11,4734
11,5749	628,4	30,00	10,5	105,60499	154,3981	23,4959	-105,50874	11,5749
11,6765	597,5	30,00	10,5	105,6809	154,5318	23,36221	-105,64243	11,6765
11,778	562,4	30,00	11	105,75608	154,6642	23,7298	-105,27484	11,778
11,8795	535,7	30,00	11	105,83061	154,7955	23,59853	-105,40611	11,8795
11,9811	510,1	30,00	11	105,90458	154,9258	23,46825	-105,53639	11,9811
12,0826	506,5	30,00	11	105,97785	155,0548	23,3392	-105,66544	12,0826

12,1841	487,2	30,00	11	106,05051	155,1828	23,21123	-105,79342	12,1841
12,2857	468	30,00	11	106,12264	155,3099	23,08419	-105,92045	12,2857
12,3872	451,4	30,00	11	106,19411	155,4357	22,95832	-106,04632	12,3872
12,4887	435	30,00	11	106,26499	155,5606	22,83348	-106,17116	12,4887
12,5903	419,8	30,00	11	106,33537	155,6845	22,70953	-106,29511	12,5903
12,6918	418	30,00	11	106,40511	155,8073	22,5867	-106,41795	12,6918
12,7933	410,3	30,00	11	106,4743	155,9292	22,46484	-106,5398	12,7933
12,8949	390,8	30,00	11	106,543	156,0502	22,34383	-106,66081	12,8949
12,9964	382,6	30,00	11	106,61111	156,1702	22,22389	-106,78076	12,9964
13,098	378,3	30,00	10,5	106,67874	156,2893	21,60476	-107,39988	13,098
13,1995	364,1	30,00	10,5	106,74579	156,4074	21,48667	-107,51798	13,1995
13,301	344,8	30,00	10,5	106,81233	156,5246	21,36948	-107,63516	13,301
13,4026	341,8	30,00	10,5	106,87843	156,641	21,25307	-107,75157	13,4026
13,5041	340,1	30,00	10,5	106,94396	156,7564	21,13766	-107,86699	13,5041
13,6056	335,1	30,00	10,5	107,009	156,8709	21,0231	-107,98154	13,6056
13,7072	358,3	30,00	10,5	107,07362	156,9848	20,90929	-108,09536	13,7072
13,8087	393,6	30,00	11	107,1377	157,0976	21,29643	-107,70822	13,8087
13,9102	444,4	30,00	11	107,20131	157,2097	21,18439	-107,82025	13,9102
14,0118	496	30,00	11	107,26452	157,321	21,07306	-107,93158	14,0118
14,1133	522,4	30,00	11	107,32722	157,4314	20,96264	-108,042	14,1133
14,2148	533,7	30,00	11	107,38946	157,541	20,85302	-108,15163	14,2148
14,3164	554,8	30,00	11	107,45132	157,65	20,74407	-108,26058	14,3164
14,4179	565,7	30,00	11	107,51268	157,7581	20,63599	-108,36866	14,4179
14,5194	570,8	30,00	11	107,57362	157,8654	20,52867	-108,47597	14,5194
14,621	571,5	30,00	11	107,63419	157,972	20,422	-108,58265	14,621
14,7225	555,7	30,00	11	107,69428	158,0779	20,31616	-108,68848	14,7225
14,824	527,9	30,00	11	107,75395	158,183	20,21106	-108,79359	14,824
14,9256	505,2	30,00	11	107,81328	158,2875	20,10657	-108,89808	14,9256
15,0271	478,4	30,00	11	107,87215	158,3912	20,00289	-109,00176	15,0271
15,1286	445,7	30,00	11	107,93062	158,4941	19,8999	-109,10474	15,1286
15,2302	419,5	30,00	11	107,98876	158,5965	19,79751	-109,20713	15,2302
15,3317	400,5	30,00	11	108,04645	158,6981	19,6959	-109,30875	15,3317
15,4332	381,7	30,00	11	108,10376	158,7991	19,59495	-109,40969	15,4332
15,5348	362,4	30,00	11	108,16076	158,8995	19,49457	-109,51007	15,5348
15,6363	371,3	30,00	11	108,21732	158,9991	19,39495	-109,6097	15,6363
15,7378	386,5	30,00	11	108,27353	159,0981	19,29596	-109,70868	15,7378
15,8394	392,8	30,00	11	108,32942	159,1965	19,19752	-109,80712	15,8394
15,9409	399,3	30,00	11	108,3849	159,2942	19,0998	-109,90484	15,9409
16,0425	413,1	30,00	11	108,44009	159,3914	19,00261	-110,00203	16,0425
16,144	416,9	30,00	11	108,49487	159,4879	18,90613	-110,09852	16,144
16,2455	436,2	30,00	11	108,54931	159,5838	18,81025	-110,1944	16,2455
16,3471	447,3	30,00	11	108,60346	159,6792	18,71487	-110,28977	16,3471
16,4486	457,9	30,00	11	108,65722	159,7739	18,62018	-110,38447	16,4486
16,5501	451,3	30,00	11	108,71066	159,868	18,52607	-110,47858	16,5501
16,6517	437,6	30,00	11	108,76382	159,9616	18,43244	-110,5722	16,6517
16,7532	422,4	30,00	11	108,8166	160,0546	18,33948	-110,66517	16,7532
16,8547	407,8	30,00	11	108,86907	160,147	18,24707	-110,75757	16,8547
16,9563	387	30,00	11	108,92127	160,2389	18,15513	-110,84951	16,9563

17,0578	366,6	30,00	11	108,97311	160,3302	18,06383	-110,94081	17,0578
17,1593	348,4	30,00	11	109,02464	160,421	17,97308	-111,03157	17,1593
17,2609	330,4	30,00	10,5	109,07591	160,5113	17,38276	-111,62188	17,2609
17,3624	307	30,00	10,5	109,12684	160,601	17,29307	-111,71157	17,3624
17,4639	285,7	30,00	10,5	109,17747	160,6901	17,2039	-111,80075	17,4639
17,5655	267,5	30,00	10,5	109,22786	160,7789	17,11516	-111,88949	17,5655
17,667	249,2	30,00	10,5	109,2779	160,867	17,02702	-111,97763	17,667
17,7685	224,3	30,00	10,5	109,32766	160,9547	16,93938	-112,06527	17,7685
17,8701	188,7	30,00	10,5	109,37718	161,0419	16,85215	-112,15249	17,8701
17,9716	143,6	30,00	10,5	109,42638	161,1285	16,76551	-112,23914	17,9716
18,0731	100,8	30,00	10,5	109,4753	161,2147	16,67935	-112,32529	18,0731
18,1747	62,8	30,00	10,5	109,52399	161,3005	16,59359	-112,41105	18,1747
18,2762	36,2	30,00	10,5	109,57236	161,3856	16,5084	-112,49625	18,2762
18,3777	21,1	30,00	10,5	109,62047	161,4704	16,42367	-112,58097	18,3777
18,4793	15,5	30,00	10,5	109,66836	161,5547	16,33933	-112,66531	18,4793
18,5808	9,2	30,00	10,5	109,71593	161,6385	16,25553	-112,74911	18,5808
18,6823	4,4	30,00	10	109,76325	161,7219	15,67219	-113,33245	18,6823
18,7839	1,3	30,00	10	109,81036	161,8048	15,58923	-113,41542	18,7839
18,8854	0	30,00	10	109,85717	161,8873	15,50678	-113,49786	18,8854
18,987	1,2	30,00	10,5	109,90377	161,9693	15,9247	-113,07994	18,987
19,0885	0,6	30,00	10,5	109,95008	162,0509	15,84314	-113,1615	19,0885
19,19	0	30,00	10,5	109,99614	162,132	15,76201	-113,24263	19,19
19,2916	0	30,00	10,5	110,04201	162,2128	15,68123	-113,32341	19,2916
19,3931	0	30,00	10,5	110,08759	162,2931	15,60096	-113,40369	19,3931
19,4946	0	30,00	10,5	110,13293	162,3729	15,5211	-113,48355	19,4946
19,5962	0	30,00	10,5	110,17808	162,4525	15,44158	-113,56307	19,5962
19,6977	0	30,00	10,5	110,22296	162,5315	15,36255	-113,6421	19,6977
19,7992	0	30,00	10,5	110,2676	162,6101	15,28392	-113,72073	19,7992
19,9008	0	30,00	10,5	110,31206	162,6884	15,20562	-113,79903	19,9008
20,0023	0	30,00	10,5	110,35624	162,7663	15,12779	-113,87685	20,0023
20,1038	0	30,00	10,5	110,40021	162,8437	15,05036	-113,95428	20,1038
20,2054	0	30,00	10,5	110,44399	162,9208	14,97324	-114,0314	20,2054
20,3069	0	30,00	10,5	110,48752	162,9975	14,89659	-114,10806	20,3069

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