

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
0,1112	492,8	30,00	10,5	65,256741	83,3350783	94,55897	-34,445678	0,1112
0,2223	505,1	30,00	8,5	71,273434	93,9319364	81,96211	-47,042536	0,2223
0,3335	518,9	30,00	8	74,796562	100,137019	75,25703	-53,747619	0,3335
0,4446	540,8	30,00	2	77,294034	104,535675	64,85837	-64,146274	0,4446
0,5558	569,9	30,00	-8	79,233016	107,950692	51,44335	-77,561292	0,5558
0,667	598,1	30,00	-14	80,817161	110,740757	42,65329	-86,351357	0,667
0,7781	620	30,00	-14	82,155353	113,097638	40,29641	-88,708238	0,7781
0,8893	659,3	30,00	-5	83,315611	115,141133	47,25291	-81,751733	0,8893
1,0004	698,6	30,00	-3	84,338118	116,942018	47,45203	-81,552618	1,0004
1,1116	738,5	30,00	-1	85,253616	118,55443	47,83961	-81,16503	1,1116
1,2228	781,7	30,00	1	86,081753	120,012982	48,38106	-80,623582	1,2228
1,3339	819,7	30,00	0,5	86,83711	121,343349	46,5507	-82,453949	1,3339
1,4451	848,9	30,00	0,5	87,532603	122,56828	45,32576	-83,67888	1,4451
1,5562	878,4	30,00	0,5	88,175953	123,701376	44,19267	-84,811976	1,5562
1,6674	909,2	30,00	0,5	88,775441	124,757219	43,13683	-85,867819	1,6674
1,7786	962	30,00	0	89,336211	125,744871	41,64917	-87,355471	1,7786
1,8897	982,9	30,00	0,5	89,862502	126,671798	41,22225	-87,782398	1,8897
2,0009	988,9	30,00	0,5	90,359152	127,54652	40,34752	-88,65712	2,0009
2,112	991,6	30,00	1	90,828523	128,373196	40,02085	-88,983796	2,112
2,2232	998,8	30,00	1	91,274215	129,158168	39,23588	-89,768768	2,2232
2,3344	991,8	30,00	-1	91,69815	129,904821	36,48922	-92,51542	2,3344
2,4455	993,9	30,00	-1	92,101998	130,616095	35,77795	-93,226695	2,4455
2,5567	1002,9	30,00	-3	92,48824	131,296361	33,09768	-95,906961	2,5567

2,6678	1018,7	30,00	-3	92,85771	131,947087	32,44696	-96,557687	2,6678
2,779	1043,2	30,00	-3	93,212416	132,57181	31,82224	-97,18241	2,779
2,8902	1086,7	30,00	-1	93,553203	133,172018	33,22203	-95,782618	2,8902
3,0013	1127,7	30,00	-1	93,880833	133,749055	32,64499	-96,359655	3,0013
3,1125	1167,7	30,00	-1	94,196832	134,305606	32,08844	-96,916206	3,1125
3,2236	1205,4	30,00	-1	94,501468	134,842143	31,5519	-97,452743	3,2236
3,3348	1242,3	30,00	1	94,796041	135,360958	33,03309	-95,971558	3,3348
3,446	1270,3	30,00	1	95,08095	135,862753	32,53129	-96,473353	3,446
3,5571	1296	30,00	1	95,356566	136,348179	32,04587	-96,958779	3,5571
3,6683	1333,9	30,00	1	95,623942	136,819092	31,57495	-97,429692	3,6683
3,7795	1369,4	30,00	1	95,883332	137,275941	31,1181	-97,886541	3,7795
3,8906	1407,2	30,00	1	96,134976	137,719149	30,6749	-98,329749	3,8906
4,0018	1446,5	30,00	1	96,379752	138,150259	30,24379	-98,760858	4,0018
4,1129	1469,1	30,00	1	96,617608	138,56918	29,82487	-99,17978	4,1129
4,2241	1449,8	30,00	1	96,849329	138,977296	29,41675	-99,587896	4,2241
4,3353	1392	30,00	-1	97,075028	139,374808	27,01924	-101,98541	4,3353
4,4464	1365,3	30,00	-3	97,294815	139,761907	24,63214	-104,37251	4,4464
4,5576	1355,4	30,00	-3	97,509369	140,139788	24,25426	-104,75039	4,5576
4,6687	1359,4	30,00	-5	97,718564	140,508231	21,88581	-107,11883	4,6687
4,7799	1378,7	30,00	-5	97,923021	140,868329	21,52572	-107,47893	4,7799
4,8911	1408	30,00	-3	98,122776	141,220146	23,1739	-105,83075	4,8911
5,0022	1442,2	30,00	-3	98,317866	141,563747	22,8303	-106,17435	5,0022
5,1134	1466,9	30,00	-3	98,50884	141,900099	22,49395	-106,5107	5,1134
5,2245	1469	30,00	-3	98,695539	142,228922	22,16512	-106,83952	5,2245
5,3357	1489,8	30,00	-3	98,878473	142,551112	21,84293	-107,16171	5,3357
5,4469	1483,8	30,00	-5	99,057633	142,866656	19,52739	-109,47726	5,4469
5,558	1483,2	30,00	-5	99,233016	143,175548	19,2185	-109,78615	5,558
5,6692	1490,9	30,00	-5	99,40508	143,478596	18,91545	-110,0892	5,6692
5,7803	1517,2	30,00	-5	99,573652	143,775492	18,61855	-110,38609	5,7803
5,8915	1339,7	30,00	-8	99,739162	144,066995	15,32705	-113,6776	5,8915
6,0027	1305,2	30,00	-8	99,901578	144,353048	15,041	-113,96365	6,0027
6,1138	1325,4	30,00	-8	100,06087	144,633599	14,76045	-114,2442	6,1138
6,225	1365,8	30,00	-8	100,21743	144,909344	14,4847	-114,51994	6,225
6,3361	1399,3	30,00	-8	100,37109	145,179965	14,21408	-114,79056	6,3361
6,4473	1329,7	30,00	-2	100,5222	145,446119	19,94793	-109,05672	6,4473
6,5585	1322,2	30,00	-2	100,67074	145,707721	19,68632	-109,31832	6,5585
6,6696	1321,6	30,00	-2	100,81664	145,964696	19,42935	-109,5753	6,6696
6,7808	1348,5	30,00	-2	100,96026	146,217651	19,17639	-109,82825	6,7808
6,8919	1359,8	30,00	-2	101,10142	146,466269	18,92778	-110,07687	6,8919
7,0031	1374,7	30,00	-2	101,24045	146,71113	18,68292	-110,32173	7,0031
7,1143	1400,4	30,00	-2	101,37729	146,952133	18,44191	-110,56273	7,1143
7,2254	1390,3	30,00	-2	101,51188	147,189186	18,20486	-110,79979	7,2254
7,3366	1352,5	30,00	-2	101,64454	147,422831	17,97121	-111,03343	7,3366
7,4477	1312,6	30,00	2	101,77509	147,652755	21,74129	-107,26335	7,4477
7,5589	1309,5	30,00	2	101,90382	147,879477	21,51457	-107,49008	7,5589
7,6701	1323,5	30,00	2	102,03067	148,102888	21,29116	-107,71349	7,6701
7,7812	1363	30,00	2	102,15558	148,322887	21,07116	-107,93349	7,7812
7,8924	1400,3	30,00	-2	102,27883	148,53996	16,85408	-112,15056	7,8924

8,0035	1394,4	30,00	2	102,40024	148,753806	20,64024	-108,36441	8,0035
8,1147	1378,6	30,00	2	102,52009	148,964891	20,42915	-108,57549	8,1147
8,2259	1393,2	30,00	2	102,63831	149,173104	20,22094	-108,7837	8,2259
8,337	1431,2	30,00	2	102,75484	149,378337	20,01571	-108,98894	8,337
8,4482	1468,5	30,00	-2	102,86993	149,581034	15,81301	-113,19163	8,4482
8,5593	1495	30,00	-2	102,98341	149,780902	15,61314	-113,3915	8,5593
8,6705	1470	30,00	2	103,09553	149,978369	19,41568	-109,58897	8,6705
8,7817	1458,4	30,00	2	103,20622	150,17332	19,22073	-109,78392	8,7817
8,8928	1462,1	30,00	2	103,31542	150,365645	19,0284	-109,97624	8,8928
9,004	1515,5	30,00	2	103,42335	150,555752	18,83829	-110,16635	9,004
9,1151	1566,7	30,00	-2	103,52987	150,743358	14,65069	-114,35396	9,1151
9,2263	1599,8	30,00	-2	103,6352	150,928857	14,46519	-114,53946	9,2263
9,3375	1591,1	30,00	-2	103,73926	151,112133	14,28191	-114,72273	9,3375
9,4486	1574,2	30,00	-2	103,84199	151,293078	14,10097	-114,90368	9,4486
9,5598	1544,6	30,00	2	103,94362	151,472067	17,92198	-111,08267	9,5598
9,6709	1502,8	30,00	2	104,04398	151,648829	17,74522	-111,25943	9,6709
9,7821	1458,2	30,00	2	104,14329	151,823727	17,57032	-111,43433	9,7821
9,8933	1408,9	30,00	5	104,24147	151,996649	20,3974	-108,60725	9,8933
10,0044	1361,9	30,00	5	104,33847	152,167485	20,22656	-108,77808	10,0044
10,1156	1331,3	30,00	5	104,43448	152,336585	20,05746	-108,94719	10,1156
10,2267	1299,3	30,00	8	104,52936	152,503688	22,89036	-106,11429	10,2267
10,3379	1264,6	30,00	8	104,62329	152,669132	22,72491	-106,27973	10,3379
10,4491	1200,8	30,00	8	104,71622	152,832806	22,56124	-106,44341	10,4491
10,5602	1129,6	30,00	8,5	104,80809	152,994603	22,89944	-106,1052	10,5602
10,6714	1077	30,00	8,5	104,89907	153,15485	22,73919	-106,26545	10,6714
10,7826	1038,2	30,00	8,5	104,98911	153,313436	22,58061	-106,42404	10,7826
10,8937	1007,6	30,00	8,5	105,07815	153,470254	22,42379	-106,58085	10,8937
11,0049	983	30,00	8,5	105,16637	153,62562	22,26843	-106,73622	11,0049
11,116	960,5	30,00	10	105,25362	153,779286	23,61476	-105,38989	11,116
11,2272	940,1	30,00	10	105,34007	153,93156	23,46248	-105,54216	11,2272
11,3384	914,7	30,00	10	105,42568	154,082334	23,31171	-105,69293	11,3384
11,4495	904,3	30,00	10	105,51038	154,231502	23,16254	-105,8421	11,4495
11,5607	888,8	30,00	10	105,59433	154,379362	23,01468	-105,98996	11,5607
11,6718	871,3	30,00	10	105,6774	154,525676	22,86837	-106,13628	11,6718
11,783	881,9	30,00	10	105,75976	154,670733	22,72331	-106,28133	11,783
11,8942	917,1	30,00	10	105,84135	154,814428	22,57962	-106,42503	11,8942
12,0053	932,1	30,00	10	105,92211	154,956658	22,43739	-106,56726	12,0053
12,1165	939,9	30,00	10	106,00219	155,097705	22,29634	-106,7083	12,1165
12,2276	947,8	30,00	10	106,08147	155,237337	22,15671	-106,84794	12,2276
12,3388	957,4	30,00	10	106,1601	155,375831	22,01821	-106,98643	12,3388
12,45	954,4	30,00	10	106,23803	155,513082	21,88096	-107,12368	12,45
12,5611	948,5	30,00	10	106,3152	155,648991	21,74505	-107,25959	12,5611
12,6723	949,2	30,00	10	106,39175	155,783824	21,61022	-107,39442	12,6723
12,7834	947,7	30,00	10	106,46757	155,917359	21,47669	-107,52796	12,7834
12,8946	957	30,00	10	106,5428	156,049857	21,34419	-107,66046	12,8946
13,0058	968,2	30,00	10	106,61739	156,181217	21,21283	-107,79182	13,0058
13,1169	988,8	30,00	10	106,69127	156,311343	21,0827	-107,92194	13,1169
13,2281	1000,7	30,00	10	106,76459	156,440486	20,95356	-108,05109	13,2281

13,3392	1003,9	30,00	10	106,83724	156,568434	20,82561	-108,17903	13,3392
13,4504	992,1	30,00	10	106,90935	156,695434	20,69861	-108,30603	13,4504
13,5616	979,8	30,00	10	106,98086	156,821389	20,57266	-108,43199	13,5616
13,6727	961,8	30,00	10	107,05173	156,946203	20,44784	-108,5568	13,6727
13,7839	943,7	30,00	10	107,12209	157,070118	20,32393	-108,68072	13,7839
13,895	936,1	30,00	10	107,19182	157,192927	20,20112	-108,80353	13,895
14,0062	938,9	30,00	10	107,26105	157,314868	20,07918	-108,92547	14,0062
14,1174	942,1	30,00	10	107,32974	157,435844	19,9582	-109,04644	14,1174
14,2285	941,4	30,00	10	107,39783	157,555763	19,83828	-109,16636	14,2285
14,3397	931	30,00	10	107,46545	157,674857	19,71919	-109,28546	14,3397
14,4508	918,4	30,00	10	107,53248	157,792924	19,60112	-109,40352	14,4508
14,562	910,9	30,00	10	107,59907	157,910193	19,48385	-109,52079	14,562
14,6732	916,1	30,00	10	107,66514	158,026569	19,36748	-109,63717	14,6732
14,7843	916	30,00	10	107,73066	158,141963	19,25208	-109,75256	14,7843
14,8955	900,5	30,00	10	107,79575	158,256596	19,13745	-109,8672	14,8955
15,0066	878	30,00	10,5	107,86029	158,370274	19,52377	-109,48087	15,0066
15,1178	856,9	30,00	10,5	107,92442	158,483215	19,41083	-109,59382	15,1178
15,229	841	30,00	10,5	107,98807	158,595329	19,29872	-109,70593	15,229
15,3401	817	30,00	10,5	108,05121	158,706527	19,18752	-109,81713	15,3401
15,4513	779,4	30,00	10,5	108,11395	158,817021	19,07702	-109,92762	15,4513
15,5624	739,7	30,00	10,5	108,17618	158,926625	18,96742	-110,03722	15,5624
15,6736	729,6	30,00	10,5	108,23802	159,035547	18,8585	-110,14615	15,6736
15,7848	765,3	30,00	10,5	108,29943	159,143699	18,75035	-110,2543	15,7848
15,8959	805,4	30,00	10,5	108,36035	159,250995	18,64305	-110,36159	15,8959
16,0071	807,1	30,00	10,5	108,4209	159,357639	18,53641	-110,46824	16,0071
16,1182	806,7	30,00	10,5	108,48098	159,463451	18,43059	-110,57405	16,1182
16,2294	795,5	30,00	10,5	108,54069	159,568629	18,32542	-110,67923	16,2294
16,3406	789,2	30,00	10,5	108,6	159,67309	18,22095	-110,78369	16,3406
16,4517	775,8	30,00	10,5	108,65886	159,776749	18,1173	-110,88735	16,4517
16,5629	743,9	30,00	10,5	108,71737	159,879803	18,01424	-110,9904	16,5629
16,674	697,3	30,00	10,5	108,77544	159,982075	17,91197	-111,09268	16,674
16,7852	660,3	30,00	10,5	108,83318	160,08376	17,81029	-111,19436	16,7852
16,8964	631	30,00	11	108,89053	160,184773	18,20927	-110,79537	16,8964
17,0075	619,4	30,00	11	108,94745	160,285033	18,10901	-110,89563	17,0075
17,1187	623,3	30,00	11	109,00406	160,38473	18,00931	-110,99533	17,1187
17,2298	626,5	30,00	11	109,06025	160,483693	17,91035	-111,09429	17,2298
17,341	606,2	30,00	11	109,11613	160,582107	17,81194	-111,19271	17,341
17,4522	575,6	30,00	11	109,17165	160,679893	17,71415	-111,29049	17,4522
17,5633	533,8	30,00	11	109,22677	160,776971	17,61707	-111,38757	17,5633
17,6745	495,3	30,00	11	109,28159	160,873523	17,52052	-111,48412	17,6745
17,7857	459,6	30,00	11	109,33606	160,969469	17,42458	-111,58007	17,7857
17,8968	445,9	30,00	11	109,39015	161,064732	17,32931	-111,67533	17,8968
18,008	453,8	30,00	11	109,44395	161,15949	17,23455	-111,77009	18,008
18,1191	462,5	30,00	11	109,49738	161,253581	17,14046	-111,86418	18,1191
18,2303	454,2	30,00	11	109,55052	161,34718	17,04686	-111,95778	18,2303
18,3415	439,6	30,00	11	109,60334	161,44021	16,95383	-112,05081	18,3415
18,4526	443,9	30,00	11	109,6558	161,532595	16,86145	-112,14319	18,4526
18,5638	435,6	30,00	11	109,70798	161,624508	16,76954	-112,23511	18,5638

18,6749	426,4	30,00	11	109,75981	161,715789	16,67826	-112,32639	18,6749
18,7861	398,7	30,00	11	109,81138	161,806611	16,58743	-112,41721	18,7861
18,8973	364,7	30,00	11	109,86264	161,896897	16,49715	-112,5075	18,8973
19,0084	327,7	30,00	10,5	109,91356	161,986573	15,90747	-113,09717	19,0084
19,1196	284,1	30,00	10,5	109,96422	162,075806	15,81824	-113,18641	19,1196
19,2307	235,1	30,00	10,5	110,01455	162,164442	15,7296	-113,27504	19,2307
19,3419	192,4	30,00	10,5	110,06463	162,252646	15,6414	-113,36325	19,3419
19,4531	137,7	30,00	10,5	110,11442	162,340345	15,5537	-113,45094	19,4531
19,5642	83,5	30,00	10,5	110,16389	162,427466	15,46658	-113,53807	19,5642
19,6754	35,6	30,00	10,5	110,21312	162,514171	15,37987	-113,62477	19,6754
19,7865	21,3	30,00	10,5	110,26202	162,60031	15,29373	-113,71091	19,7865
19,8977	23,6	30,00	10,5	110,3107	162,686044	15,208	-113,79664	19,8977
20,0089	30,8	30,00	10,5	110,35911	162,7713	15,12275	-113,8819	20,0089
20,12	39,1	30,00	10,5	110,4072	162,856007	15,03804	-113,96661	20,12
20,2312	29,4	30,00	10,5	110,45508	162,940324	14,95372	-114,05092	20,2312
20,3423	18,2	30,00	10,5	110,50265	163,024103	14,86994	-114,1347	20,3423
20,4535	15,8	30,00	10,5	110,55	163,107501	14,78654	-114,2181	20,4535
20,5647	5,3	30,00	10,5	110,59709	163,190446	14,7036	-114,30105	20,5647
20,6758	0,4	30,00	10,5	110,64389	163,27287	14,62117	-114,38347	20,6758
20,787	0	30,00	10,5	110,69048	163,354926	14,53912	-114,46553	20,787
20,8981	0	30,00	10,5	110,73678	163,436471	14,45757	-114,54707	20,8981
21,0093	0	30,00	10,5	110,78288	163,517657	14,37639	-114,62826	21,0093
21,1205	0	30,00	10,5	110,82873	163,598414	14,29563	-114,70901	21,1205
21,2316	0	30,00	10,5	110,8743	163,678675	14,21537	-114,78927	21,2316
21,3428	0	30,00	10,5	110,91967	163,758588	14,13546	-114,86919	21,3428
21,4539	0	30,00	10,5	110,96477	163,838015	14,05603	-114,94862	21,4539
21,5651	0	30,00	10,5	111,00967	163,917103	13,97694	-115,0277	21,5651
21,6763	0	30,00	10,5	111,05435	163,995784	13,89826	-115,10638	21,6763
21,7874	0	30,00	10,5	111,09875	164,073992	13,82005	-115,18459	21,7874
21,8986	0	30,00	10,5	111,14297	164,151872	13,74217	-115,26247	21,8986
22,0097	0	30,00	10,5	111,18693	164,229288	13,66476	-115,33989	22,0097
22,1209	0	30,00	10,5	111,2307	164,306384	13,58766	-115,41698	22,1209
22,2321	0	30,00	10,5	111,27425	164,383093	13,51095	-115,49369	22,2321

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