

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
0,0811	2084,1	30	3,5	62,51617366	78,507771	91,314886	-37,69087	0,0811
0,1622	2094,8	30	5	68,53677357	89,111509	82,211148	-46,79461	0,1622
0,2432	2092,4	30	5	72,05502798	95,308009	76,014647	-52,99111	0,2432
0,3243	2084,1	30	5	74,55469555	99,710531	71,612126	-57,39363	0,3243
0,4054	2066,2	35,7	5	76,49343146	102,27509	69,047568	-59,95819	0,4054
0,4865	2038,6	63,3	5	78,07741346	102,09796	69,224696	-59,78106	0,4865
0,5675	2019,2	82,7	5	79,41507389	102,89442	68,42824	-60,57752	0,5675
0,6486	1999,4	102,5	4,5	80,57529546	103,59704	67,225617	-61,78014	0,6486
0,7297	1976,8	125,1	4	81,5986435	104,10225	66,220411	-62,78535	0,7297
0,8108	1954,2	147,7	4	82,51403137	104,57484	65,747814	-63,25794	0,8108
0,8919	1932,6	169,3	4	83,34207985	105,0456	65,277061	-63,7287	0,8919
0,9729	1920,3	181,6	4	84,09712064	105,77101	64,551648	-64,45411	0,9729
1,054	1909,5	102,50909	4	84,79256879	110,28715	60,035502	-68,97025	1,054
1,1351	1896,8	111,05833	4	85,43643905	110,81532	59,507339	-69,49842	1,1351
1,2162	1884,4	119,24615	4	86,03585655	111,3153	59,007352	-69,9984	1,2162
1,2972	1870,9	136,28462	4	86,59589537	111,34722	58,975439	-70,03032	1,2972
1,3783	1859,9	143,83571	4	87,1226317	111,8165	58,506159	-70,4996	1,3783
1,4594	1854,3	150,75333	4	87,61924341	112,27657	58,04609	-70,95967	1,4594
1,5405	1848	157,2	4,5	88,08899063	112,72236	58,100295	-70,90546	1,5405
1,6215	1854,5	162,50588	4,5	88,53409563	113,18238	57,640274	-71,36548	1,6215
1,7026	1866,8	175,28824	5	88,95800915	113,3229	57,999759	-71,006	1,7026
1,7837	1876,2	178,08889	5	89,36219282	113,82681	57,495842	-71,50991	1,7837
1,8648	1886,8	180,03684	5	89,74840178	114,33552	56,98714	-72,01862	1,8648
1,9459	1884,3	181,915	5	90,11816693	114,8217	56,500961	-72,5048	1,9459
2,0269	1873,4	191,555	5	90,47240303	114,9998	56,322855	-72,6829	2,0269
2,108	1856,6	194,11429	5	90,8131687	115,41823	55,904428	-73,10133	2,108

2,1891	1837	197,33182	5	91,14106859	115,79407	55,528583	-73,47717	2,1891
2,2702	1819,4	200	5	91,45703896	116,17171	55,150951	-73,85481	2,2702
2,3512	1804,4	200	5	91,76154803	116,62585	54,696802	-74,30895	2,3512
2,4323	1788,8	200	5	92,05609937	117,06515	54,257504	-74,74825	2,4323
2,5134	1773	200	5	92,34098879	117,49004	53,832617	-75,17314	2,5134
2,5945	1754,9	200	5	92,61683007	117,90143	53,421224	-75,58453	2,5945
2,6756	1731,8	200	5	92,88418032	118,30016	53,022494	-75,98326	2,6756
2,7566	1704,2	200	5	93,14323161	118,68651	52,636142	-76,36961	2,7566
2,8377	1673,4	200	4,5	93,39508618	119,06213	51,760523	-77,24523	2,8377
2,9188	1646,9	200	4,5	93,63984332	119,42717	51,395489	-77,61027	2,9188
2,9999	1625,6	200	4,5	93,87789213	119,7822	51,04046	-77,9653	2,9999
3,0809	1612,4	200	4,5	94,10930862	120,12733	50,695322	-78,31043	3,0809
3,162	1615,9	200	4,5	94,33499388	120,46392	50,358732	-78,64702	3,162
3,2431	1620,3	200	5	94,55496338	120,79199	50,530667	-78,47509	3,2431
3,3242	1622,5	200	5	94,76949948	121,11195	50,210705	-78,79505	3,3242
3,4053	1697,4	200	5	94,97886414	121,4242	49,898456	-79,1073	3,4053
3,4863	1715,6	200	5	95,18305169	121,72873	49,593928	-79,41183	3,4863
3,5674	1796,2	200	5	95,38279273	122,02662	49,296032	-79,70972	3,5674
3,6485	1845,3	200	5	95,57804358	122,31782	49,004832	-80,00092	3,6485
3,7296	1878,6	200	5	95,7690017	122,60262	48,720035	-80,28572	3,7296
3,8106	1897,1	200	5	95,95562384	122,88095	48,441704	-80,56405	3,8106
3,8917	1905,5	200	5	96,13854366	123,15376	48,168895	-80,83686	3,8917
3,9728	1889,9	200	5	96,31769062	123,42094	47,901713	-81,10404	3,9728
4,0539	1872	200	5	96,4932172	123,68273	47,639931	-81,36583	4,0539
4,1349	1848,6	200	5	96,66505679	123,93901	47,383647	-81,62211	4,1349
4,216	1825,1	200	5	96,83376862	124,19063	47,132028	-81,87373	4,216
4,2971	1803,7	200	5	96,99926578	124,43745	46,885203	-82,12055	4,2971
4,3782	1781,4	200	5	97,16166851	124,67966	46,642994	-82,36276	4,3782
4,4593	1760,9	200	5	97,32109038	124,91743	46,40523	-82,60053	4,4593
4,5403	1745,9	200	5	97,47744757	125,15062	46,172037	-82,83372	4,5403
4,6214	1742,3	200	5	97,63122777	125,37997	45,942687	-83,06307	4,6214
4,7025	1740,7	200	5	97,78233266	125,60533	45,717328	-83,28843	4,7025
4,7836	1741	200	5	97,93085372	125,82684	45,495821	-83,50994	4,7836
4,8646	1745,7	200	5	98,07669928	126,04435	45,278305	-83,72745	4,8646
4,9457	1737,9	200	5	98,22031195	126,25854	45,06412	-83,94164	4,9457
5,0268	1722,3	200	5	98,3615887	126,46924	44,853418	-84,15234	5,0268
5,1079	1710,7	200	5	98,5006043	126,67657	44,646088	-84,35967	5,1079
5,189	1691,5	200	5	98,63742999	126,88063	44,442025	-84,56373	5,189
5,27	1659,4	200	5	98,77196888	127,08129	44,241372	-84,76439	5,27
5,3511	1631,9	200	5	98,90461791	127,27912	44,043537	-84,96222	5,3511
5,4322	1595	200	5	99,0352716	127,47398	43,848679	-85,15708	5,4322
5,5133	1557,8	200	5	99,16398907	127,66595	43,656708	-85,34905	5,5133
5,5943	1505,1	200	5	99,29067162	127,85488	43,467772	-85,53798	5,5943
5,6754	1451,3	200	5	99,41568609	128,04133	43,281324	-85,72443	5,6754
5,7565	1393,5	200	5	99,53892675	128,22514	43,097521	-85,90824	5,7565
5,8376	1326,6	200	5	99,66044324	128,40637	42,91629	-86,08947	5,8376
5,9187	1278,8	200	5	99,78028312	128,5851	42,737559	-86,2682	5,9187
5,9997	1228,8	200	5	99,89834728	128,76118	42,561477	-86,44428	5,9997

6,0808	1190,6	200	4,5	100,014971	128,93511	41,887543	-87,11821	6,0808
6,1619	1148,5	200	4,5	100,1300495	129,10674	41,715913	-87,28984	6,1619
6,243	1123,6	200	4,5	100,2436233	129,27613	41,546528	-87,45923	6,243
6,324	1094,5	200	4,5	100,3555938	129,44312	41,379533	-87,62622	6,324
6,4051	1074,7	200	4,5	100,4662749	129,60819	41,214462	-87,79129	6,4051
6,4862	1058,2	200	4,5	100,5755633	129,77119	41,051468	-87,95429	6,4862
6,5673	1037,5	200	4,5	100,6834937	129,93216	40,890499	-88,11526	6,5673
6,6483	1015,9	200	4,5	100,7899687	130,09096	40,731701	-88,27406	6,6483
6,7294	1017,7	200	4,5	100,8952834	130,24802	40,574633	-88,43112	6,7294
6,8105	1015,6	200	4,5	100,9993365	130,40321	40,419447	-88,58631	6,8105
6,8916	1022,5	200	4,5	101,1021578	130,55656	40,266098	-88,73966	6,8916
6,9727	1029,6	200	4,5	101,2037762	130,70811	40,114543	-88,89121	6,9727
7,0537	1032,2	200	4,5	101,3040963	130,85773	39,964925	-89,04083	7,0537
7,1348	1031,8	200	4,5	101,4033926	131,00582	39,816833	-89,18892	7,1348
7,2159	1023,1	200	4,5	101,5015667	131,15224	39,670415	-89,33534	7,2159
7,297	1015,7	200	5	101,5986435	131,29702	40,025633	-88,98012	7,297
7,378	1001,2	200	5	101,6945296	131,44003	39,882627	-89,12313	7,378
7,4591	985,9	200	4,5	101,7894852	131,58165	39,24101	-89,76475	7,4591
7,5402	961,3	200	4,5	101,8834139	131,72173	39,100923	-89,90483	7,5402
7,6213	933,9	200	4,5	101,9763377	131,86032	38,962335	-90,04342	7,6213
7,7024	902,4	200	4,5	102,0682779	131,99744	38,825214	-90,18054	7,7024
7,7834	868,1	200	4,5	102,1591436	132,13296	38,689696	-90,31606	7,7834
7,8645	823,2	200	4,5	102,2491789	132,26724	38,555416	-90,45034	7,8645
7,9456	773,6	200	4,5	102,3382905	132,40014	38,422514	-90,58324	7,9456
8,0267	737,8	200	4	102,4264972	132,53169	37,790962	-91,21479	8,0267
8,1077	704,6	200	4	102,51371	132,66177	37,660891	-91,34487	8,1077
8,1888	667,6	200	4	102,6001619	132,7907	37,531956	-91,4738	8,1888
8,2699	627,9	200	4	102,6857617	132,91837	37,404291	-91,60147	8,2699
8,351	595,5	200	4	102,7705262	133,04478	37,277872	-91,72788	8,351
8,4321	570,1	200	4	102,8544715	133,16998	37,152675	-91,85308	8,4321
8,5131	536,7	200	4	102,9375113	133,29383	37,028829	-91,97693	8,5131
8,5942	493,7	200	4	103,0198657	133,41665	36,906004	-92,09975	8,5942
8,6753	445,7	200	4	103,1014466	133,53832	36,784334	-92,22142	8,6753
8,7564	403,1	200	4	103,1822684	133,65886	36,663795	-92,34196	8,7564
8,8374	371,6	200	4	103,2622468	133,77814	36,544514	-92,46124	8,8374
8,9185	331,8	200	4	103,3415929	133,89648	36,426176	-92,57958	8,9185
8,9996	304,6	200	4	103,4202207	134,01375	36,30891	-92,69685	8,9996
9,0807	273,2	200	4	103,4981431	134,12996	36,192695	-92,81306	9,0807
9,1617	234,3	200	3,5	103,5752779	134,245	35,577656	-93,4281	9,1617
9,2428	228,7	200	4	103,6518277	134,35917	35,963488	-93,04227	9,2428
9,3239	213,9	200	4	103,7277087	134,47234	35,850318	-93,15544	9,3239
9,405	204,6	200	4	103,8029326	134,58453	35,738129	-93,26763	9,405
9,4861	183,5	200	4	103,8775105	134,69575	35,626902	-93,37885	9,4861
9,5671	153,7	200	3,5	103,9513628	134,8059	35,016758	-93,989	9,5671
9,6482	125,3	200	3,5	104,0246825	134,91525	34,907408	-94,09835	9,6482
9,7293	104,5	200	3,5	104,0973885	135,02368	34,798973	-94,20678	9,7293
9,8104	92,4	200	3,5	104,1694909	135,13122	34,691439	-94,31432	9,8104
9,8914	105,9	200	4	104,2409119	135,23774	35,084921	-93,92084	9,8914

9,9725	124,5	200	4	104,3118375	135,34352	34,979141	-94,02662	9,9725
10,0536	127,7	200	4	104,3821886	135,44844	34,874219	-94,13154	10,0536
10,1347	120,9	200	4	104,4519745	135,55252	34,770139	-94,23562	10,1347
10,2158	108,9	200	4	104,5212042	135,65577	34,666889	-94,33887	10,2158
10,2968	102	200	4	104,5898021	135,75808	34,564581	-94,44118	10,2968
10,3779	106,8	200	4	104,6579462	135,85971	34,46295	-94,54281	10,3779
10,459	126	200	4	104,7255598	135,96055	34,362111	-94,64365	10,459
10,5401	156,5	200	4	104,7926512	136,06061	34,26205	-94,74371	10,5401
10,6211	177,7	200	4	104,8591465	136,15978	34,162878	-94,84288	10,6211
10,7022	176,1	200	4	104,9252178	136,25832	34,064338	-94,94142	10,7022
10,7833	158,9	200	4	104,9907903	136,35611	33,966542	-95,03921	10,7833
10,8644	151,1	200	4	105,0558715	136,45318	33,86948	-95,13628	10,8644
10,9455	148,8	200	4	105,1204687	136,54952	33,773138	-95,23262	10,9455
11,0265	129,1	200	4	105,1845102	136,64503	33,677626	-95,32813	11,0265
11,1076	110,7	200	4	105,2481612	136,73996	33,582696	-95,42306	11,1076
11,1887	92,7	200	4	105,3113492	136,8342	33,488457	-95,5173	11,1887
11,2698	79,2	200	4	105,3740808	136,92776	33,394898	-95,61086	11,2698
11,3508	76,8	200	4	105,436286	137,02053	33,302125	-95,70363	11,3508
11,4319	74,8	200	4	105,4981249	137,11276	33,209897	-95,79586	11,4319
11,513	64,1	200	4	105,5595267	137,20433	33,118322	-95,88743	11,513
11,5941	55,1	200	4	105,6204974	137,29527	33,027389	-95,97837	11,5941
11,6751	45,8	200	4	105,6809688	137,38546	32,937202	-96,06855	11,6751
11,7562	42,9	200	4	105,7410959	137,47513	32,847527	-96,15823	11,7562
11,8373	40,2	200	4	105,8008097	137,56419	32,758469	-96,24729	11,8373
11,9184	36,9	200	4	105,8601157	137,65264	32,67002	-96,33574	11,9184
11,9995	34,5	200	4	105,9190196	137,74049	32,58217	-96,42359	11,9995
12,0805	33,5	200	4	105,9774548	137,82764	32,495019	-96,51074	12,0805
12,1616	35,3	200	4	106,0355709	137,91431	32,408343	-96,59741	12,1616
12,2427	37,1	200	4	106,0933007	138,00041	32,322244	-96,68351	12,2427
12,3238	38,1	200	4	106,1506494	138,08594	32,236714	-96,76904	12,3238
12,4048	39,6	200	4,5	106,2075519	138,17081	32,651849	-96,35391	12,4048
12,4859	40,8	200	4,5	106,2641536	138,25522	32,567432	-96,43832	12,4859
12,567	41,8	200	4,5	106,3203889	138,33909	32,483562	-96,52219	12,567
12,6481	41,6	200	4,5	106,3762624	138,42242	32,400232	-96,60552	12,6481
12,7292	39,5	200	4,5	106,4317788	138,50522	32,317434	-96,68832	12,7292
12,8102	37	200	4,5	106,4868748	138,58739	32,235263	-96,77049	12,8102
12,8913	34,2	200	4,5	106,5416909	138,66915	32,15351	-96,85225	12,8913
12,9724	33,3	200	4,5	106,5961632	138,75039	32,072269	-96,93349	12,9724
13,0535	33,5	200	4,5	106,650296	138,83112	31,991535	-97,01422	13,0535
13,1345	34,1	200	4,5	106,7040275	138,91126	31,911399	-97,09436	13,1345
13,2156	33,7	200	4,5	106,7574943	138,991	31,831658	-97,1741	13,2156
13,2967	28,4	200	4,5	106,810634	139,07025	31,752405	-97,25335	13,2967
13,3778	22,4	200	4,5	106,8634506	139,14902	31,673633	-97,33212	13,3778
13,4589	20,6	200	4,5	106,9159479	139,22732	31,595338	-97,41042	13,4589
13,5399	23,4	200	4,5	106,9680657	139,30505	31,517609	-97,48815	13,5399
13,621	20,3	200	4,5	107,0199364	139,38241	31,440248	-97,56551	13,621
13,7021	14,5	200	4,5	107,0714992	139,45931	31,363347	-97,64241	13,7021
13,7832	13,6	200	4,5	107,1227577	139,53576	31,286899	-97,71886	13,7832

13,8642	12,4	200	4,5	107,1736529	139,61166	31,210994	-97,79476	13,8642
13,9453	15	200	4,5	107,2243138	139,68722	31,135437	-97,87032	13,9453
14,0264	18,9	200	5	107,274681	139,76234	31,560319	-97,44544	14,0264
14,1075	19,2	200	5	107,3247578	139,83702	31,485634	-97,52012	14,1075
14,1886	18,9	200	5	107,3745475	139,91128	31,411377	-97,59438	14,1886
14,2696	20,5	200	5	107,4239926	139,98502	31,337634	-97,66812	14,2696
14,3507	22,6	200	5	107,4732183	140,05844	31,264218	-97,74154	14,3507
14,4318	24,5	200	5	107,5221666	140,13144	31,191216	-97,81454	14,4318
14,5129	31	200	5	107,5708406	140,20403	31,118623	-97,88713	14,5129
14,5939	28,7	200	5	107,6191839	140,27613	31,046523	-97,95923	14,5939
14,675	18,9	200	5	107,6673188	140,34792	30,974734	-98,03102	14,675
14,7561	12	200	5	107,7151884	140,41932	30,903341	-98,10242	14,7561
14,8372	5,5	200	5	107,7627956	140,49032	30,832339	-98,17342	14,8372
14,9182	1,3	200	5	107,8100851	140,56085	30,761811	-98,24395	14,9182
14,9993	0	200	5	107,8571764	140,63108	30,691578	-98,31418	14,9993
15,0804	0	200	5	107,9040138	140,70093	30,621724	-98,38403	15,0804
15,1615	0	200	5	107,9506	140,77041	30,552245	-98,45351	15,1615
15,2426	0	200	5	107,9969376	140,83952	30,483136	-98,52262	15,2426
15,3236	0	200	5	108,0429727	140,90818	30,414479	-98,59128	15,3236
15,4047	0	200	5	108,0888215	140,97656	30,3461	-98,65966	15,4047
15,4858	0	200	5	108,1344295	141,04458	30,278079	-98,72768	15,4858
15,5669	0	200	5	108,1797993	141,11224	30,210414	-98,79534	15,5669
15,6479	0	200	5	108,2248778	141,17947	30,143183	-98,86257	15,6479
15,729	0	200	5	108,2697788	141,24644	30,076217	-98,92954	15,729
15,8101	0	200	5	108,3144489	141,31306	30,009596	-98,99616	15,8101
15,8912	0	200	5	108,3588904	141,37934	29,943315	-99,06244	15,8912
15,9723	0	200	5	108,4031057	141,44528	29,877372	-99,12838	15,9723
16,0533	0	200	5	108,447043	141,51081	29,811843	-99,19391	16,0533
16,1344	0	200	5	108,490813	141,57609	29,746564	-99,25919	16,1344
16,2155	0	200	5	108,5343635	141,64104	29,681613	-99,32414	16,2155

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