

Ganancia antena tx	11
Campo mínimo Servicio	42,395757
Campo mínimo proteccion	30,375157
Limite de Perfil	15

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	1101,00	30,00	11	0	0	178,39516	49,3894	0
0,0962	1124,1	30,00	-2	63,99926	81,11984	84,275314	-44,730442	0,0962
0,1924	1153,1	30,00	-1	70,01986	91,72358	74,671576	-54,334181	0,1924
0,2886	1184,7	30,00	0,5	73,54168	97,92637	69,968787	-59,03697	0,2886
0,3848	1221,1	30,00	-1	76,04046	102,3273	64,067838	-64,937919	0,3848
0,481	1233,4	30,00	0,5	77,97866	105,741	62,154197	-66,85156	0,481
0,5771	1229,6	30,00	-3	79,56078	108,5275	55,867699	-73,138057	0,5771
0,6733	1207	30,00	-8	80,89993	110,886	48,50913	-80,496627	0,6733
0,7695	1175,4	30,00	5	82,05993	112,9291	59,466088	-69,539669	0,7695
0,8657	1160,3	30,00	8,5	83,0831	114,7311	61,164026	-67,84173	0,8657
0,9619	1158,8	30,00	8,5	83,99836	116,3431	59,552049	-69,453708	0,9619
1,0581	1161,6	30,00	8,5	84,82629	117,8013	58,093853	-70,911904	1,0581
1,1543	1179,7	30,00	8,5	85,58213	119,1325	56,762636	-72,243121	1,1543
1,2505	1207,8	30,00	8	86,27743	120,3571	55,038044	-73,967713	1,2505
1,3467	1240,9	30,00	5	86,92117	121,4909	50,904255	-78,101501	1,3467
1,4429	1260,5	30,00	2	87,52048	122,5464	46,848729	-82,157027	1,4429
1,539	1265,8	30,00	2	88,08053	123,5328	45,862349	-83,143407	1,539
1,6352	1240,9	30,00	8	88,60717	124,4604	50,934799	-78,070957	1,6352
1,7314	1204	30,00	8,5	89,1037	125,3349	50,560288	-78,445468	1,7314
1,8276	1164,8	30,00	10	89,57338	126,1621	51,233077	-77,772679	1,8276
1,9238	1123,3	30,00	11	90,01895	126,9468	51,448311	-77,557446	1,9238
2,02	1087,3	30,00	10,5	90,44278	127,6933	50,201845	-78,803912	2,02
2,1162	1051,8	30,00	10	90,84689	128,405	48,990115	-80,015642	2,1162
2,2124	1015	30,00	8,5	91,23303	129,0851	46,81003	-82,195726	2,2124
2,3086	984,3	30,00	8,5	91,60273	129,7363	46,158898	-82,846859	2,3086
2,4048	958,1	30,00	8	91,95734	130,3608	45,034351	-83,971405	2,4048
2,5009	935,8	30,00	8	92,29768	130,9602	44,434917	-84,570839	2,5009
2,5971	930	30,00	8	92,62553	131,5377	43,857499	-85,148257	2,5971

2,6933	924,4	30,00	8	92,94145	132,0941	43,301085	-85,704671	2,6933
2,7895	920	30,00	8	93,24628	132,631	42,764201	-86,241556	2,7895
2,8857	920,2	30,00	8	93,54078	133,1496	42,245521	-86,760235	2,8857
2,9819	930,5	30,00	8	93,82562	133,6513	41,743853	-87,261904	2,9819
3,0781	946,5	30,00	8,5	94,10141	134,137	41,758114	-87,247642	3,0781
3,1743	956,6	32,07	8,5	94,36872	134,1132	41,781943	-87,223814	3,1743
3,2705	953,6	36,78	8,5	94,62804	133,543	42,352109	-86,653647	3,2705
3,3667	952,8	41,19	8,5	94,87984	133,1302	42,764982	-86,240774	3,3667
3,4628	962,2	48,80	10	95,1243	132,2713	45,123818	-83,881938	3,4628
3,559	972,4	51,97	10	95,36232	132,1983	45,196836	-83,808921	3,559
3,6552	985,1	54,50	10	95,59398	132,2267	45,168488	-83,837268	3,6552
3,7514	997,9	56,45	10	95,81962	132,3359	45,059304	-83,946452	3,7514
3,8476	1005,6	61,45	10	96,03955	132,054	45,341122	-83,664634	3,8476
3,9438	1019	62,46	10,5	96,25405	132,2836	45,611606	-83,39415	3,9438
4,04	1036,4	62,89	10,5	96,46338	132,5776	45,317576	-83,688181	4,04
4,1362	1055,2	62,74	10,5	96,66779	132,9346	44,960604	-84,045153	4,1362
4,2324	1056,2	65,76	10,5	96,86749	132,8996	44,995512	-84,010245	4,2324
4,3286	1039,9	65,97	10,5	97,06271	133,1968	44,69836	-84,307397	4,3286
4,4247	1025,3	66,57	10,5	97,25343	133,4399	44,455226	-84,550531	4,4247
4,5209	1013,3	67,47	10,5	97,44025	133,6427	44,252452	-84,753304	4,5209
4,6171	1004	68,56	10,5	97,62314	133,8169	44,078246	-84,927511	4,6171
4,7133	993,8	72,98	10,5	97,80226	133,6171	44,278018	-84,727739	4,7133
4,8095	983,3	74,43	10	97,97776	133,7473	43,647851	-85,357906	4,8095
4,9057	973,6	76,05	10	98,14978	133,8561	43,539093	-85,466664	4,9057
5,0019	977,7	77,50	10	98,31846	133,9804	43,414719	-85,591038	5,0019
5,0981	985	82,25	10,5	98,48392	133,7729	44,122241	-84,883516	5,0981
5,1943	997,4	83,04	10,5	98,6463	133,9584	43,936779	-85,068978	5,1943
5,2905	1018,6	83,31	10,5	98,80569	134,1904	43,704725	-85,301032	5,2905
5,3866	1044,6	82,97	10,5	98,96205	134,476	43,419114	-85,586642	5,3866
5,4828	1069,4	86,11	11	99,1158	134,423	43,972123	-85,033634	5,4828
5,579	1083,2	84,86	11	99,26688	134,7854	43,609745	-85,396011	5,579
5,6752	1104,7	83,20	11	99,41538	135,1864	43,2088	-85,796956	5,6752
5,7714	1130,1	81,06	11	99,56138	135,6345	42,760613	-86,245144	5,7714
5,8676	1156,7	82,86	11	99,70497	135,6882	42,707004	-86,298753	5,8676
5,9638	1174,8	79,84	10,5	99,84622	136,2206	41,674524	-87,331232	5,9638
6,06	1190,9	76,62	10,5	99,98521	136,7847	41,11046	-87,895297	6,06
6,1562	1207,9	77,70	10,5	100,122	136,8927	41,002505	-88,003252	6,1562
6,2524	1247,8	73,45	10,5	100,2567	137,5766	40,318524	-88,687233	6,2524
6,3485	1277,3	68,78	10,5	100,3892	138,3364	39,55875	-89,447006	6,3485
6,4447	1294,9	63,96	10	100,5198	139,1545	38,240706	-90,76505	6,4447
6,5409	1266,8	63,94	10,5	100,6485	139,3698	38,525397	-90,480359	6,5409
6,6371	1248,2	60,19	10,5	100,7753	140,0845	37,810625	-91,195131	6,6371
6,7333	1232,8	56,85	10,5	100,9003	140,7685	37,126696	-91,87906	6,7333
6,8295	1208,4	54,09	10,5	101,0235	141,3923	36,502811	-92,502946	6,8295
6,9257	1178	55,23	10,5	101,145	141,4205	36,474627	-92,531129	6,9257
7,0219	1150	53,58	11	101,2648	141,8758	36,519399	-92,486358	7,0219
7,1181	1132,4	52,30	11	101,383	142,278	36,117184	-92,888572	7,1181
7,2143	1113,2	51,40	11	101,4996	142,6215	35,773629	-93,232127	7,2143

7,3105	1090,8	53,35	11	101,6147	142,5001	35,895088	-93,110669	7,3105
7,4066	1063,6	53,28	11	101,7281	142,7012	35,693948	-93,311808	7,4066
7,5028	1041,3	53,59	10,5	101,8402	142,8407	35,054472	-93,951284	7,5028
7,599	1025,5	54,14	10,5	101,9509	142,9387	34,956503	-94,049254	7,599
7,6952	1018,5	56,54	10,5	102,0602	142,7525	35,142636	-93,86312	7,6952
7,7914	1019,6	57,14	10,5	102,1681	142,8436	35,051606	-93,954151	7,7914
7,8876	1013,3	57,81	10,5	102,2747	142,921	34,97419	-94,031566	7,8876
7,9838	999,6	58,68	10,5	102,3799	142,9688	34,926334	-94,079422	7,9838
8,08	996,5	45,91	10,5	102,484	145,2482	32,646949	-96,358807	8,08
8,1762	997,4	47,18	10,5	102,5868	145,189	32,706166	-96,299591	8,1762
8,2724	1000,3	48,35	10,5	102,6884	145,1504	32,744733	-96,261023	8,2724
8,3685	1001,1	49,46	10,5	102,7887	145,1236	32,771514	-96,234242	8,3685
8,4647	993,8	50,67	10,5	102,888	145,0839	32,811235	-96,194521	8,4647
8,5609	979,4	52,07	10,5	102,9861	145,0127	32,882505	-96,123252	8,5609
8,6571	961,4	53,73	10,5	103,0832	144,9042	32,990997	-96,014759	8,6571
8,7533	938,5	55,71	10,5	103,1792	144,7511	33,144046	-95,861711	8,7533
8,8495	913,7	58,03	10,5	103,2741	144,5558	33,339361	-95,666395	8,8495
8,9457	888,4	60,67	10,5	103,368	144,3243	33,570818	-95,434939	8,9457
9,0419	861,9	63,65	10	103,461	144,0611	33,334086	-95,671671	9,0419
9,1381	830,4	67,02	10	103,5529	143,7626	33,632512	-95,373245	9,1381
9,2343	789,5	70,90	10	103,6438	143,4193	33,975835	-95,029921	9,2343
9,3304	761,7	75,09	10	103,7338	143,0643	34,330895	-94,674862	9,3304
9,4266	739	79,48	10	103,8229	142,7104	34,684762	-94,320995	9,4266
9,5228	715,2	84,10	10	103,911	142,3578	35,037371	-93,968385	9,5228
9,619	730,7	88,36	10	103,9984	142,064	35,331196	-93,67456	9,619
9,7152	749,4	92,23	10	104,0848	141,8246	35,570584	-93,435172	9,7152
9,8114	769,5	95,72	10	104,1704	141,634	35,7612	-93,244556	9,8114
9,9076	782,4	98,94	10	104,2551	141,4771	35,918013	-93,087743	9,9076
10,0038	801,1	101,82	10	104,3391	141,3571	36,038097	-92,967659	10,0038
10,1	823,1	104,33	10	104,4222	141,2735	36,121688	-92,884069	10,1
10,1962	865,7	106,21	10,5	104,5045	141,2454	36,649798	-92,355959	10,1962
10,2923	904,8	107,53	10,5	104,586	141,2641	36,631031	-92,374726	10,2923
10,3885	944,5	108,31	10,5	104,6668	141,3274	36,567796	-92,437961	10,3885
10,4847	982,5	108,59	10,5	104,7469	141,4307	36,464465	-92,541292	10,4847
10,5809	1032,4	108,24	11	104,8262	141,5847	36,81048	-92,195277	10,5809
10,6771	1088,6	107,21	11	104,9048	141,7946	36,600587	-92,40517	10,6771
10,7733	1139,9	105,57	11	104,9827	142,0551	36,340073	-92,665683	10,7733
10,8695	1173,7	103,57	11	105,0599	142,3487	36,046442	-92,959315	10,8695
10,9657	1193,1	101,38	11	105,1365	142,6612	35,733934	-93,271822	10,9657
11,0619	1198,1	99,19	11	105,2124	142,978	35,417185	-93,588571	11,0619
11,1581	1175,9	97,30	11	105,2876	143,27	35,1252	-93,880557	11,1581
11,2542	1153,9	95,72	11	105,362	143,5367	34,858454	-94,147302	11,2542
11,3504	1142,8	94,29	11	105,436	143,7899	34,605275	-94,400482	11,3504
11,4466	1185,4	92,42	11	105,5093	144,0879	34,307263	-94,698494	11,4466
11,5428	1222,2	90,18	10,5	105,582	144,4257	33,469432	-95,536324	11,5428
11,639	1242,4	87,76	10,5	105,6541	144,7864	33,108724	-95,897033	11,639
11,7352	1265,1	85,16	10,5	105,7256	145,1742	32,720966	-96,284791	11,7352
11,8314	1298,5	82,25	10,5	105,7965	145,6034	32,291744	-96,714012	11,8314

11,9276	1340,9	78,95	10,5	105,8668	146,0883	31,806826	-97,19893	11,9276
12,0238	1375,3	75,35	10,5	105,9366	146,6242	31,270974	-97,734783	12,0238
12,12	1413,4	71,44	10,5	106,0058	147,2216	30,673585	-98,332172	12,12
12,2161	1446,7	67,26	10	106,0744	147,8818	29,513391	-99,492365	12,2161
12,3123	1436,6	63,28	10	106,1425	148,5504	28,844758	-100,161	12,3123
12,4085	1397,3	59,76	10,5	106,2101	149,1825	28,712653	-100,2931	12,4085
12,5047	1345,3	56,84	10,5	106,2772	149,7512	28,144004	-100,86175	12,5047
12,6009	1296,3	54,47	10,5	106,3438	150,2525	27,642618	-101,36314	12,6009
12,6971	1261,9	52,47	10,5	106,4098	150,7042	27,190961	-101,8148	12,6971
12,7933	1232,2	50,81	10,5	106,4754	151,1098	26,785322	-102,22043	12,7933
12,8895	1194,2	49,54	11	106,5405	151,4513	26,943838	-102,06192	12,8895
12,9857	1152,6	48,69	11	106,6051	151,719	26,676194	-102,32956	12,9857
13,0819	1109,4	48,26	11	106,6692	151,908	26,487158	-102,5186	13,0819
13,178	1069,8	48,21	11	106,7327	152,0247	26,370478	-102,63528	13,178
13,2742	1030,5	48,53	11	106,7959	152,0713	26,323824	-102,68193	13,2742
13,3704	992,4	49,19	10,5	106,8586	152,0529	25,84221	-103,16355	13,3704
13,4666	956,9	50,17	10,5	106,9209	151,978	25,91718	-103,08858	13,4666
13,5628	928,5	51,38	10,5	106,9827	151,8625	26,032668	-102,97309	13,5628
13,659	903,8	52,78	10,5	107,0441	151,7161	26,179043	-102,82671	13,659
13,7552	880,8	54,37	10,5	107,1051	151,5447	26,350427	-102,65533	13,7552
13,8514	855,4	56,16	10,5	107,1656	151,3478	26,547311	-102,45845	13,8514
13,9476	823,6	58,18	10,5	107,2257	151,1199	26,775263	-102,23049	13,9476
14,0438	788,3	60,48	10,5	107,2854	150,8606	27,034598	-101,97116	14,0438
14,14	754	63,03	10,5	107,3447	150,5759	27,319304	-101,68645	14,14
14,2361	733,9	65,71	10	107,4036	150,2869	27,108221	-101,89754	14,2361
14,3323	723,6	68,43	10	107,4621	150,0066	27,388576	-101,61718	14,3323
14,4285	711,3	71,21	10	107,5202	149,7321	27,663011	-101,34275	14,4285
14,5247	680,7	74,19	10	107,5779	149,4446	27,950568	-101,05519	14,5247
14,6209	645	77,42	10	107,6352	149,1415	28,253706	-100,75205	14,6209
14,7171	609	80,89	10	107,6922	148,8255	28,569653	-100,4361	14,7171
14,8133	567	84,64	10	107,7488	148,4942	28,900968	-100,10479	14,8133
14,9095	515,5	88,74	10	107,805	148,1428	29,252361	-99,753396	14,9095
15,0057	448,5	88,74	8,5	107,8609	148,2326	27,662588	-101,34317	15,0057
15,1019	396,6	88,74	8,5	107,9164	148,3218	27,57339	-101,43237	15,1019
15,198	385	88,74	8,5	107,9715	148,4103	27,48485	-101,52091	15,198
15,2942	410,9	88,74	8,5	108,0263	148,4984	27,396777	-101,60898	15,2942
15,3904	454,1	88,74	10	108,0808	148,5859	28,809255	-100,1965	15,3904
15,4866	430,2	88,74	8,5	108,1349	148,6729	27,22228	-101,78348	15,4866
15,5828	412	88,74	8,5	108,1887	148,7593	27,135843	-101,86991	15,5828
15,679	486	88,74	10	108,2421	148,8452	28,549938	-100,45582	15,679
15,7752	501,2	88,74	10	108,2953	148,9306	28,464558	-100,5412	15,7752
15,8714	526,1	88,74	10	108,3481	149,0155	28,379697	-100,62606	15,8714
15,9676	515,3	88,74	10	108,4005	149,0998	28,295349	-100,71041	15,9676
16,0638	472,9	88,74	10	108,4527	149,1836	28,211508	-100,79425	16,0638
16,1599	411,8	88,74	10	108,5045	149,2669	28,128254	-100,8775	16,1599
16,2561	337,4	88,74	8,5	108,5561	149,3497	26,545408	-102,46035	16,2561
16,3523	273,4	88,74	8,5	108,6073	149,4321	26,46305	-102,54271	16,3523
16,4485	230,9	88,74	8,5	108,6583	149,514	26,381176	-102,62458	16,4485

16,5447	225,6	88,74	8,5	108,7089	149,5954	26,299779	-102,70598	16,5447
16,6409	214,6	88,74	8,5	108,7593	149,6763	26,218854	-102,7869	16,6409
16,7371	199,2	88,74	8,5	108,8094	149,7568	26,138395	-102,86736	16,7371
16,8333	183,6	88,74	8,5	108,8591	149,8368	26,058397	-102,94736	16,8333
16,9295	214,7	88,74	8,5	108,9086	149,9163	25,978856	-103,0269	16,9295
17,0257	229	88,74	8,5	108,9579	149,9954	25,899765	-103,10599	17,0257
17,1218	210	88,74	8,5	109,0067	150,074	25,821201	-103,18456	17,1218
17,218	190,2	88,74	8,5	109,0554	150,1522	25,742996	-103,26276	17,218
17,3142	166	88,74	8,5	109,1038	150,2299	25,665227	-103,34053	17,3142
17,4104	133,9	88,74	8,5	109,1519	150,3073	25,587888	-103,41787	17,4104
17,5066	95,5	88,74	8,5	109,1998	150,3842	25,510976	-103,49478	17,5066
17,6028	66,3	88,74	8,5	109,2474	150,4607	25,434485	-103,57127	17,6028
17,699	44,4	88,74	8,5	109,2947	150,5367	25,358411	-103,64735	17,699
17,7952	26,5	88,74	8,5	109,3418	150,6124	25,28275	-103,72301	17,7952
17,8914	13,5	88,74	8	109,3886	150,6877	24,707496	-104,29826	17,8914
17,9876	5,9	88,74	8	109,4352	150,7625	24,632646	-104,37311	17,9876
18,0837	5,3	88,74	8	109,4815	150,8369	24,558272	-104,44748	18,0837
18,1799	4,5	88,74	8,5	109,5276	150,9109	24,984216	-104,02154	18,1799
18,2761	2,8	88,74	8,5	109,5734	150,9846	24,91055	-104,09521	18,2761
18,3723	0,9	88,74	8,5	109,619	151,0579	24,837272	-104,16848	18,3723
18,4685	3	88,74	8,5	109,6644	151,1308	24,764376	-104,24138	18,4685
18,5647	5,3	88,74	8,5	109,7095	151,2033	24,691858	-104,3139	18,5647
18,6609	2,5	88,74	8,5	109,7544	151,2754	24,619716	-104,38604	18,6609
18,7571	1,7	88,74	8,5	109,7991	151,3472	24,547944	-104,45781	18,7571
18,8533	0,9	88,74	8,5	109,8435	151,4186	24,47654	-104,52922	18,8533
18,9495	0	88,74	8,5	109,8877	151,4897	24,405499	-104,60026	18,9495
19,0456	0	88,74	8,5	109,9316	151,5603	24,334891	-104,67087	19,0456
19,1418	0	88,74	8,5	109,9754	151,6306	24,264566	-104,74119	19,1418
19,238	0	88,74	8,5	110,019	151,7006	24,194593	-104,81116	19,238

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