

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	178,3952	49,3894	0
0,1206	1130	30,00	-8	65,9627	84,57795	74,81721	-54,18855	0,1206
0,2413	1163,3	30,00	-1	71,9869	95,18802	71,20713	-57,79862	0,2413
0,3619	1203,3	30,00	0,5	75,50753	101,3887	66,50646	-62,4993	0,3619
0,4825	1245,7	30,00	0	78,0057	105,7886	61,60656	-67,39919	0,4825
0,6032	1260,5	30,00	0,5	79,94498	109,2041	58,69102	-70,31474	0,6032
0,7238	1256	30,00	-3	81,52813	111,9924	52,40272	-76,60304	0,7238
0,8444	1254,1	30,00	-14	82,86672	114,35	39,04513	-89,96063	0,8444
0,9651	1252	30,00	-8	84,0272	116,3939	43,00124	-86,00452	0,9651
1,0857	1243,5	30,00	-2	85,04995	118,1952	47,19993	-81,80583	1,0857
1,2063	1229,8	30,00	2	85,96486	119,8066	49,58855	-79,41721	1,2063
1,3269	1232,6	30,00	5	86,79252	121,2643	51,13085	-77,87491	1,3269
1,4476	1234	30,00	5	87,54873	122,5962	49,79898	-79,20678	1,4476
1,5682	1277,9	30,00	2	88,24379	123,8203	45,57481	-83,43094	1,5682
1,6888	1296,9	30,00	2	88,88732	124,9538	44,44139	-84,56436	1,6888
1,8095	1288,2	30,00	2	89,48693	126,0098	43,38534	-85,62042	1,8095
1,9301	1275,8	30,00	5	90,04735	126,9969	45,3983	-83,60746	1,9301
2,0507	1284,1	30,00	5	90,5738	127,9241	44,4711	-84,53466	2,0507
2,1714	1255,4	30,00	8	91,07055	128,799	46,59619	-82,40957	2,1714
2,292	1239	30,00	8,5	91,54005	129,6259	46,26929	-82,73646	2,292
2,4126	1246,9	30,00	8,5	91,98546	130,4103	45,48481	-83,52094	2,4126
2,5333	1203,8	30,00	10	92,40949	131,1572	46,238	-82,76776	2,5333
2,6539	1166,5	30,00	10,5	92,81345	131,8686	46,02653	-82,97923	2,6539
2,7745	1139,6	30,00	10,5	93,19945	132,5485	45,34668	-83,65907	2,7745
2,8952	1103,6	30,00	11	93,56933	133,1999	45,19524	-83,81051	2,8952
3,0158	1054,5	30,00	10,5	93,92381	133,8242	44,07092	-84,93484	3,0158
3,1364	1019,2	30,00	10	94,26439	134,4241	42,97108	-86,03468	3,1364
3,257	991,6	30,00	10	94,59211	135,0013	42,39387	-86,61189	3,257

3,3777	974,2	30,00	10	94,90818	135,558	41,8372	-87,16855	3,3777
3,4983	955,2	30,00	8,5	95,2129	136,0946	39,80052	-89,20524	3,4983
3,6189	936,6	30,00	8,5	95,50729	136,6131	39,28202	-89,72373	3,6189
3,7396	918,6	30,00	8,5	95,79226	137,115	38,78012	-90,22564	3,7396
3,8602	916,3	30,00	8,5	96,06795	137,6006	38,29456	-90,7112	3,8602
3,9808	915,6	30,00	8,5	96,33516	138,0712	37,82393	-91,18182	3,9808
4,1015	915,6	30,00	8,5	96,59461	138,5282	37,36698	-91,63877	4,1015
4,2221	914,5	30,00	8,5	96,84633	138,9715	36,92365	-92,08211	4,2221
4,3427	909,8	30,00	8,5	97,09095	139,4024	36,4928	-92,51295	4,3427
4,4634	906,7	30,00	8,5	97,32907	139,8217	36,07342	-92,93234	4,4634
4,584	907,8	30,00	8,5	97,56065	140,2296	35,66556	-93,3402	4,584
4,7046	913,3	30,00	10	97,78621	140,6269	36,76829	-92,23747	4,7046
4,8253	916,6	31,06	10	98,00624	140,739	36,65619	-92,34957	4,8253
4,9459	924,7	35,97	10	98,22066	139,9439	37,45122	-91,55453	4,9459
5,0665	935,2	40,27	10	98,42992	139,4034	37,99172	-91,01404	5,0665
5,1872	948,1	43,94	10	98,63442	139,055	38,34016	-90,66559	5,1872
5,3078	940	52,46	10	98,83405	137,9659	39,42924	-89,57651	5,3078
5,4284	947,3	55,69	10	99,02919	137,8098	39,58534	-89,42042	5,4284
5,549	969,4	58,14	10,5	99,22005	137,7808	40,11437	-88,89139	5,549
5,6697	973,5	60,34	10,5	99,40696	137,79	40,10519	-88,90056	5,6697
5,7903	972,8	62,44	10,5	99,58978	137,814	40,08117	-88,92458	5,7903
5,9109	961,2	69,58	10,5	99,76883	137,2229	40,67228	-88,33348	5,9109
6,0316	939,1	72,25	10	99,94441	137,2009	40,19421	-88,81154	6,0316
6,1522	936,6	74,86	10	100,1164	137,1904	40,20478	-88,80098	6,1522
6,2728	940,7	82,19	10	100,285	136,6926	40,70258	-88,30318	6,2728
6,3935	939,2	84,42	10	100,4505	136,7379	40,65721	-88,34854	6,3935
6,5141	939,5	86,55	10	100,6128	136,7936	40,60158	-88,40418	6,5141
6,6347	946,7	88,40	10,5	100,7722	136,8734	41,0218	-87,98396	6,6347
6,7554	955,4	95,90	10,5	100,9288	136,4441	41,45101	-87,55474	6,7554
6,876	958,3	97,24	10,5	101,0825	136,5734	41,32175	-87,68401	6,876
6,9966	960,6	98,46	10,5	101,2335	136,7088	41,18632	-87,81944	6,9966
7,1173	981,4	99,18	10,5	101,3821	136,884	41,0112	-87,99456	7,1173
7,2379	1002,1	99,43	10,5	101,528	137,095	40,80018	-88,20557	7,2379
7,3585	996,5	105,82	10,5	101,6715	136,7958	41,09937	-87,90639	7,3585
7,4791	976,4	106,46	10,5	101,8127	136,9679	40,92727	-88,07849	7,4791
7,5998	981,4	106,98	10,5	101,9518	137,1469	40,7483	-88,25746	7,5998
7,7204	1003,3	112,79	10,5	102,0886	136,9117	40,98346	-88,02229	7,7204
7,841	1020	112,40	10,5	102,2232	137,1535	40,74166	-88,2641	7,841
7,9617	1045,2	111,52	11	102,3559	137,4292	40,96599	-88,03976	7,9617
8,0823	1075,8	150,73	11	102,4865	135,0491	43,34609	-85,65966	8,0823
8,2029	1071,2	148,30	11	102,6151	135,3854	43,00979	-85,99597	8,2029
8,3236	1047,5	146,50	11	102,742	135,6853	42,7099	-86,29586	8,3236
8,4442	1024,7	145,27	10,5	102,8669	135,9505	41,9447	-87,06106	8,4442
8,5648	1004,2	144,51	10,5	102,9901	136,1851	41,71001	-87,29575	8,5648
8,6855	985,3	144,16	10,5	103,1117	136,3927	41,5025	-87,50326	8,6855
8,8061	964,8	144,24	10,5	103,2314	136,572	41,32315	-87,68261	8,8061
8,9267	962,2	144,37	10,5	103,3496	136,7459	41,14921	-87,85655	8,9267
9,0474	956,4	144,61	10,5	103,4662	136,9111	40,98401	-88,02174	9,0474

9,168	949,2	144,97	10,5	103,5812	137,0661	40,82903	-88,17673	9,168
9,2886	944,6	145,40	10,5	103,6948	137,2145	40,6807	-88,32505	9,2886
9,4093	943,7	145,84	10,5	103,8069	137,3606	40,53454	-88,47122	9,4093
9,5299	946,1	146,21	10,5	103,9175	137,5079	40,38722	-88,61854	9,5299
9,6505	949,1	146,52	10,5	104,0268	137,657	40,23811	-88,76765	9,6505
9,7711	952,8	146,76	10,5	104,1346	137,8085	40,08663	-88,91913	9,7711
9,8918	956	146,93	10,5	104,2413	137,9618	39,93333	-89,07242	9,8918
10,0124	956,9	147,09	10,5	104,3465	138,1142	39,78093	-89,22483	10,0124
10,133	963,4	147,13	10,5	104,4505	138,2714	39,62377	-89,38199	10,133
10,2537	977,8	146,94	10,5	104,5534	138,4409	39,45427	-89,55149	10,2537
10,3743	988,6	146,58	10,5	104,6549	138,6185	39,27666	-89,72909	10,3743
10,4949	999,4	146,06	10,5	104,7553	138,804	39,09114	-89,91462	10,4949
10,6156	1011,4	145,38	10,5	104,8546	138,9985	38,89669	-90,10906	10,6156
10,7362	1023,3	144,53	11	104,9528	139,2013	39,19391	-89,81185	10,7362
10,8568	1039,8	143,47	11	105,0498	139,4166	38,97856	-90,0272	10,8568
10,9775	1063,3	142,09	11	105,1458	139,6509	38,74425	-90,26151	10,9775
11,0981	1098,5	140,24	11	105,2407	139,9146	38,48052	-90,52524	11,0981
11,2187	1143,7	137,80	11	105,3346	140,2173	38,17787	-90,82788	11,2187
11,3394	1195,7	134,69	11	105,4276	140,566	37,82912	-91,17664	11,3394
11,46	1264,2	130,72	10,5	105,5194	140,978	36,91715	-92,0886	11,46
11,5806	1320,2	126,09	10,5	105,6104	141,4446	36,45056	-92,5552	11,5806
11,7012	1350,3	121,18	10,5	105,7004	141,9438	35,95132	-93,05444	11,7012
11,8219	1339,5	116,55	10,5	105,7895	142,4363	35,4589	-93,54686	11,8219
11,9425	1306,6	112,47	10,5	105,8777	142,8976	34,99751	-94,00824	11,9425
12,0631	1268,7	108,98	10,5	105,9649	143,3205	34,57464	-94,43111	12,0631
12,1838	1229,4	106,09	10,5	106,0514	143,7012	34,19393	-94,81183	12,1838
12,3044	1209	103,54	11	106,137	144,0587	34,33644	-94,66932	12,3044
12,425	1210,2	101,03	11	106,2217	144,4166	33,97854	-95,02722	12,425
12,5457	1234,4	98,28	10,5	106,3057	144,8015	33,09364	-95,91212	12,5457
12,6663	1260	95,29	10,5	106,3888	145,2163	32,67885	-96,3269	12,6663
12,7869	1270,2	92,25	10,5	106,4711	145,6446	32,25054	-96,75522	12,7869
12,9076	1286,2	89,09	10,5	106,5527	146,0947	31,80049	-97,20526	12,9076
13,0282	1326,9	85,52	10,5	106,6334	146,599	31,29614	-97,70962	13,0282
13,1488	1379,3	81,43	10,5	106,7135	147,1783	30,7169	-98,28885	13,1488
13,2695	1426,7	76,89	10,5	106,7928	147,8345	30,06064	-98,94512	13,2695
13,3901	1468,9	71,97	10	106,8714	148,571	28,82416	-100,1816	13,3901
13,5107	1509,1	66,71	10	106,9493	149,398	27,9972	-101,0086	13,5107
13,6314	1550,8	61,11	10	107,0266	150,3353	27,05989	-101,9459	13,6314
13,752	1606,7	55,01	10	107,1031	151,4335	25,96168	-103,0441	13,752
13,8726	1668,2	48,38	10	107,1789	152,7491	24,64606	-104,3597	13,8726
13,9932	1718,7	41,35	10	107,2541	154,3314	23,06379	-105,942	13,9932
14,1139	1770,6	33,91	8,5	107,3287	156,2977	19,5975	-109,4083	14,1139
14,2345	1798,4	30,00	8,5	107,4026	157,5637	18,33149	-110,6743	14,2345
14,3551	1835,9	30,00	8,5	107,4759	157,6927	18,20243	-110,8033	14,3551
14,4758	1859,9	30,00	8,5	107,5486	157,8208	18,07434	-110,9314	14,4758
14,5964	1877,9	30,00	8,5	107,6207	157,9477	17,94741	-111,0583	14,5964
14,717	1887,3	30,00	8,5	107,6921	158,0736	17,82154	-111,1842	14,717
14,8377	1873,1	30,00	8,5	107,7631	158,1986	17,69658	-111,3092	14,8377

14,9583	1862	30,00	8,5	107,8334	158,3224	17,57275	-111,433	14,9583
15,0789	1870,9	30,00	8,5	107,9031	158,4453	17,4499	-111,5559	15,0789
15,1996	1721,4	30,00	10	107,9724	158,5672	18,82794	-110,1778	15,1996
15,3202	1682,2	30,00	10	108,041	158,6881	18,70703	-110,2987	15,3202
15,4408	1624,3	30,00	10	108,1092	158,8081	18,58708	-110,4187	15,4408
15,5615	1584,6	30,00	10	108,1768	158,9272	18,46796	-110,5378	15,5615
15,6821	1498,6	30,00	10,5	108,2438	159,0453	18,84986	-110,1559	15,6821
15,8027	1457,8	30,00	10,5	108,3104	159,1625	18,73267	-110,2731	15,8027
15,9233	1387,6	30,00	10,5	108,3764	159,2788	18,61636	-110,3894	15,9233
16,044	1324,5	30,00	10,5	108,442	159,3943	18,50084	-110,5049	16,044
16,1646	1278,6	30,00	10,5	108,5071	159,5089	18,38628	-110,6195	16,1646
16,2852	1214,2	30,00	11	108,5716	159,6226	18,77257	-110,2332	16,2852
16,4059	1189,6	30,00	11	108,6358	159,7356	18,6596	-110,3462	16,4059
16,5265	1175,6	30,00	11	108,6994	159,8476	18,54756	-110,4582	16,5265
16,6471	1112,3	30,00	11	108,7625	159,9588	18,43633	-110,5694	16,6471
16,7678	1089,8	30,00	11	108,8253	160,0693	18,32581	-110,6799	16,7678
16,8884	1134,6	30,00	11	108,8875	160,179	18,21617	-110,7896	16,8884
17,009	1124,8	30,00	11	108,9493	160,2878	18,10732	-110,8984	17,009
17,1297	1097,7	30,00	11	109,0108	160,396	17,99915	-111,0066	17,1297
17,2503	1041,1	30,00	11	109,0717	160,5033	17,89182	-111,1139	17,2503
17,3709	997	30,00	11	109,1322	160,6099	17,78524	-111,2205	17,3709
17,4916	975	30,00	11	109,1923	160,7158	17,67931	-111,3264	17,4916
17,6122	968,8	30,00	11	109,252	160,821	17,5742	-111,4316	17,6122
17,7328	975,8	30,00	11	109,3113	160,9254	17,4698	-111,536	17,7328
17,8535	987,5	30,00	11	109,3702	161,0291	17,36603	-111,6397	17,8535
17,9741	958,7	30,00	11	109,4287	161,1321	17,26304	-111,7427	17,9741
18,0947	878,4	30,00	10,5	109,4868	161,2344	16,66074	-112,345	18,0947
18,2153	835,6	30,00	10,5	109,5445	161,336	16,55911	-112,4466	18,2153
18,336	789,6	30,00	10,5	109,6018	161,4371	16,45808	-112,5477	18,336
18,4566	754,2	30,00	10,5	109,6588	161,5374	16,35779	-112,648	18,4566
18,5772	689,3	30,00	10,5	109,7154	161,637	16,25816	-112,7476	18,5772
18,6979	675,3	30,00	10,5	109,7716	161,7361	16,15908	-112,8467	18,6979
18,8185	673,2	30,00	10,5	109,8275	161,8344	16,06073	-112,945	18,8185
18,9391	676,2	30,00	10,5	109,8829	161,9322	15,963	-113,0428	18,9391
19,0598	666,2	30,00	10,5	109,9381	162,0293	15,86582	-113,1399	19,0598
19,1804	682	30,00	10,5	109,9929	162,1258	15,76933	-113,2364	19,1804
19,301	644,4	30,00	10,5	110,0474	162,2217	15,67344	-113,3323	19,301
19,4217	585,1	30,00	10	110,1015	162,3171	15,07807	-113,9277	19,4217
19,5423	550,2	30,00	10	110,1553	162,4118	14,98337	-114,0224	19,5423
19,6629	519,7	30,00	10	110,2087	162,5059	14,88925	-114,1165	19,6629
19,7836	510,4	30,00	10	110,2619	162,5995	14,79563	-114,2101	19,7836
19,9042	498,1	30,00	10	110,3147	162,6925	14,70266	-114,3031	19,9042
20,0248	455,3	30,00	10	110,3671	162,7849	14,61025	-114,3955	20,0248
20,1454	367,3	30,00	10	110,4193	162,8768	14,51839	-114,4874	20,1454
20,2661	301,6	30,00	10	110,4712	162,9681	14,42701	-114,5787	20,2661
20,3867	256	30,00	10	110,5227	163,0589	14,33625	-114,6695	20,3867
20,5073	279	30,00	10	110,5739	163,1491	14,24602	-114,7597	20,5073
20,628	301,7	30,00	10	110,6249	163,2389	14,15624	-114,8495	20,628

20,7486	294,1	30,00	10	110,6755	163,3281	14,06706	-114,9387	20,7486
20,8692	306,4	30,00	10	110,7259	163,4168	13,9784	-115,0274	20,8692
20,9899	356,9	30,00	10	110,776	163,505	13,89018	-115,1156	20,9899
21,1105	365	30,00	10	110,8257	163,5926	13,80253	-115,2032	21,1105
21,2311	314,2	30,00	10	110,8752	163,6798	13,71539	-115,2904	21,2311
21,3518	255,4	30,00	10	110,9244	163,7665	13,62866	-115,3771	21,3518
21,4724	237,1	30,00	10	110,9734	163,8527	13,5425	-115,4633	21,4724
21,593	222,8	30,00	10	111,022	163,9383	13,45682	-115,5489	21,593
21,7137	190,8	30,00	10	111,0704	164,0236	13,37155	-115,6342	21,7137
21,8343	153	30,00	8,5	111,1185	164,1083	11,78682	-117,2189	21,8343
21,9549	103,9	30,00	8,5	111,1664	164,1926	11,70255	-117,3032	21,9549
22,0756	64,3	30,00	8,5	111,214	164,2765	11,61868	-117,3871	22,0756
22,1962	34,3	30,00	8,5	111,2613	164,3598	11,53533	-117,4704	22,1962
22,3168	17,9	30,00	8,5	111,3084	164,4427	11,45244	-117,5533	22,3168
22,4374	13,5	30,00	8,5	111,3552	164,5252	11,36999	-117,6358	22,4374
22,5581	9,1	30,00	8,5	111,4018	164,6072	11,28792	-117,7178	22,5581
22,6787	4,3	30,00	8,5	111,4481	164,6888	11,20635	-117,7994	22,6787
22,7993	0,6	30,00	8,5	111,4942	164,7699	11,12521	-117,8805	22,7993
22,92	0	30,00	8,5	111,54	164,8507	11,04444	-117,9613	22,92
23,0406	0	30,00	8,5	111,5856	164,931	10,96416	-118,0416	23,0406
23,1612	0	30,00	8,5	111,631	165,0109	10,88429	-118,1215	23,1612
23,2819	0	30,00	8,5	111,6761	165,0904	10,80478	-118,201	23,2819
23,4025	0	30,00	8,5	111,721	165,1694	10,72574	-118,28	23,4025
23,5231	0	30,00	8,5	111,7656	165,2481	10,6471	-118,3587	23,5231
23,6438	0	30,00	8,5	111,8101	165,3263	10,56881	-118,4369	23,6438
23,7644	0	30,00	8,5	111,8543	165,4042	10,49098	-118,5148	23,7644
23,885	0	30,00	8,5	111,8983	165,4816	10,41354	-118,5922	23,885
24,0057	0	30,00	8,5	111,942	165,5587	10,33643	-118,6693	24,0057
24,1263	0	30,00	8,5	111,9856	165,6354	10,25977	-118,746	24,1263

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