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
0,1452	2000,5	101,4	-8	67,5750889	83,011407	75,31125	-53,69451	0,1452
0,2905	1947,2	154,7	-3	73,59867931	90,686783	72,635874	-56,36988	0,2905
0,4357	1922,8	179,1	0	77,11950777	95,337699	70,984957	-58,0208	0,4357
0,581	1898,1	200	1	79,61927922	98,516721	68,805936	-60,19982	0,581
0,7262	1830,2	200	0	81,55688146	101,40649	64,916171	-64,08959	0,7262
0,8714	1742,5	200	0	83,14010768	103,76773	62,554928	-66,45083	0,8714
1,0167	1648,6	200	-1	84,47961304	105,76548	59,557172	-69,44858	1,0167
1,1619	1567	200	-2	85,63913161	107,49481	56,827852	-72,17791	1,1619
1,3072	1515,4	200	-1	86,66259736	109,02121	56,301442	-72,70431	1,3072
1,4524	1466,7	200	-1	87,57748138	110,38568	54,936972	-74,06878	1,4524
1,5977	1427,8	200	-1	88,40566128	111,62084	53,701814	-75,30394	1,5977
1,7429	1400,8	200	0	89,16120597	112,74767	53,574985	-75,43077	1,7429
1,8881	1391,6	200	0	89,85625642	113,78428	52,538378	-76,46738	1,8881
2,0334	1347,5	200	1	90,50021296	114,74468	52,577973	-76,42778	2,0334
2,1786	1310,9	200	1	91,09930656	115,63818	51,684477	-77,32128	2,1786
2,3239	1284,9	200	1	91,66010529	116,47456	50,848095	-78,15766	2,3239
2,4691	1236,2	200	1	92,18653016	117,25968	50,062978	-78,94278	2,4691
2,6143	1186,8	200	1	92,68286503	117,99992	49,322738	-79,68302	2,6143
2,7596	1152,4	200	1	93,1526793	118,70061	48,622051	-80,38371	2,7596
2,9048	1105,1	200	1	93,59808129	119,36488	47,957773	-81,04798	2,9048
3,0501	1034,6	200	1	94,02203814	119,99718	47,325478	-81,68028	3,0501
3,1953	980,7	200	1	94,42598936	120,59964	46,723021	-82,28274	3,1953
3,3406	966,1	200	1	94,81224611	121,1757	46,146952	-82,8588	3,3406
3,4858	951,1	200	1,5	95,18180588	121,72687	46,095786	-82,90997	3,4858
3,631	940,3	200	1,5	95,53628155	122,25554	45,567117	-83,43864	3,631
3,7763	929,4	200	1,5	95,87708634	122,76382	45,058836	-83,94692	3,7763

3,9215	922,9	200	1,5	96,20480096	123,25258	44,570078	-84,43568	3,9215
4,0668	918,9	200	2,5	96,52081287	123,72388	45,098774	-83,90698	4,0668
4,212	908,5	200	2,5	96,82552382	124,17833	44,644324	-84,36143	4,212
4,3572	899,7	200	3	97,11990647	124,61738	44,705278	-84,30048	4,3572
4,5025	894	200	3	97,404831	125,04232	44,280338	-84,72542	4,5025
4,6477	890	200	3	97,68051832	125,45348	43,869175	-85,13658	4,6477
4,793	893,4	200	3	97,94790515	125,85227	43,470391	-85,53537	4,793
4,9382	892,2	200	3	98,20713008	126,23888	43,083779	-85,92198	4,9382
5,0835	891,4	200	3,5	98,45901313	126,61454	43,208118	-85,79764	5,0835
5,2287	887,1	200	3,5	98,70363107	126,97937	42,843291	-86,16247	5,2287
5,3739	881,7	200	3,5	98,94154819	127,3342	42,488459	-86,5173	5,3739
5,5192	883,9	200	3,5	99,17327921	127,6798	42,142852	-86,8629	5,5192
5,6644	878,8	200	3,5	99,39883486	128,0162	41,806456	-87,1993	5,6644
5,8097	875,9	200	3,5	99,61883071	128,34431	41,478351	-87,52741	5,8097
5,9549	875,6	200	3,5	99,83324603	128,66409	41,158569	-87,84719	5,9549
6,1001	876	200	4	100,0424957	128,97616	41,346492	-87,65926	6,1001
6,2454	886,7	200	4	100,2469618	129,28111	41,041549	-87,96421	6,2454
6,3906	894,9	200	4	100,4465893	129,57884	40,743821	-88,26194	6,3906
6,5359	898,3	200	4	100,6418645	129,87007	40,452585	-88,55317	6,5359
6,6811	919,8	200	4	100,832716	130,15471	40,167947	-88,83781	6,6811
6,8264	951,3	200	4	101,0195912	130,43342	39,889239	-89,11652	6,8264
6,9716	946,6	200	4,5	101,2024058	130,70607	40,116587	-88,88917	6,9716
7,1168	945	200	4,5	101,3814518	130,9731	39,849556	-89,1562	7,1168
7,2621	924,1	200	4,5	101,5570011	131,23492	39,587739	-89,41802	7,2621
7,4073	918,5	200	4,5	101,7289553	131,49137	39,331285	-89,67447	7,4073
7,5526	904,4	200	4,5	101,8976863	131,74302	39,079637	-89,92612	7,5526
7,6978	897,5	200	4,5	102,063089	131,9897	38,832953	-90,1728	7,6978
7,843	898,6	200	4,5	102,2254009	132,23178	38,590879	-90,41488	7,843
7,9883	899,7	200	4,5	102,3848439	132,46957	38,353084	-90,65267	7,9883
8,1335	901,7	200	5	102,541306	132,70292	38,619734	-90,38602	8,1335
8,2788	904,1	200	5	102,6951044	132,9323	38,390358	-90,6154	8,2788
8,424	916,1	200	5	102,8461237	133,15753	38,165125	-90,84063	8,424
8,5693	930,6	200	5	102,9946635	133,37907	37,943591	-91,06217	8,5693
8,7145	950,3	200	5	103,1406061	133,59673	37,725931	-91,27983	8,7145
8,8597	969,4	200	5	103,2841369	133,81079	37,511867	-91,49389	8,8597
9,005	1000,9	200	5	103,4254309	134,02152	37,301139	-91,70462	9,005
9,1502	1016,7	200	5	103,5643683	134,22873	37,093926	-91,91183	9,1502
9,2955	1044	200	5	103,7012117	134,43282	36,889836	-92,11592	9,2955
9,4407	1080,5	200	5	103,8358405	134,63361	36,689049	-92,31671	9,4407
9,5859	1113,3	200	5	103,9684145	134,83133	36,491327	-92,51443	9,5859
9,7312	1180,6	200	5	104,0990845	135,02621	36,296444	-92,70931	9,7312
9,8764	1216,8	200	5	104,22773	135,21808	36,10458	-92,90118	9,8764
10,0217	1181,5	200	5	104,3545845	135,40727	35,915388	-93,09037	10,0217
10,1669	1146,7	200	5	104,4795276	135,59361	35,729046	-93,27671	10,1669
10,3122	1147,4	200	5	104,6027831	135,77744	35,545221	-93,46054	10,3122
10,4574	1160,1	200	5	104,724231	135,95856	35,364092	-93,64166	10,4574
10,6026	1173,6	200	5	104,8440041	136,1372	35,185461	-93,8203	10,6026
10,7479	1189	200	5	104,9622289	136,31352	35,009139	-93,99662	10,7479

10,8931	1166,2	200	5	105,0787864	136,48735	34,835304	-94,17045	10,8931
11,0384	1159,4	200	5	105,1938791	136,659	34,663653	-94,3421	11,0384
11,1836	1129,1	200	5	105,3073891	136,82829	34,494363	-94,51139	11,1836
11,3288	1105,9	200	5	105,4194348	136,9954	34,327257	-94,6785	11,3288
11,4741	1125,1	200	5	105,5301292	137,16049	34,162166	-94,84359	11,4741
11,6193	1129,1	200	5	105,6393559	137,32339	33,999264	-95,00649	11,6193
11,7646	1124,5	200	5	105,7472999	137,48438	33,838274	-95,16748	11,7646
11,9098	1122,1	200	5	105,8538459	137,64329	33,67937	-95,32639	11,9098
12,0551	1140,9	200	5	105,9591729	137,80037	33,522284	-95,48347	12,0551
12,2003	1120,8	200	5	106,0631668	137,95547	33,367187	-95,63857	12,2003
12,3455	1158,2	200	5	106,1659302	138,10873	33,213924	-95,79183	12,3455
12,4908	1157,6	200	5	106,2675617	138,26031	33,062349	-95,94341	12,4908
12,636	1137,7	200	5	106,3679489	138,41003	32,912631	-96,09313	12,636
12,7813	1125,8	200	5	106,4672571	138,55814	32,764521	-96,24124	12,7813
12,9265	1069,3	200	5	106,5653756	138,70447	32,618186	-96,38757	12,9265
13,0717	1028,8	200	5	106,662398	138,84917	32,473486	-96,53227	13,0717
13,217	1023,2	200	5	106,7584144	138,99237	32,330286	-96,67547	13,217
13,3622	1032,5	200	5	106,8533159	139,13391	32,188748	-96,81701	13,3622
13,5075	1080,6	200	5	106,9472561	139,27401	32,048645	-96,95711	13,5075
13,6527	1119,9	200	5	107,0401275	139,41252	31,910135	-97,09562	13,6527
13,798	1138,9	200	5	107,1320794	139,54966	31,772997	-97,23276	13,798
13,9432	1154,8	200	5	107,2230057	139,68527	31,637388	-97,36837	13,9432
14,0884	1164,2	200	5	107,31299	139,81947	31,503184	-97,50257	14,0884
14,2337	1180,7	200	5	107,4021127	139,95239	31,370266	-97,63549	14,2337
14,3789	1175,3	200	5	107,4902698	140,08387	31,238787	-97,76697	14,3789
14,5242	1167,2	200	5	107,577601	140,21412	31,10854	-97,89722	14,5242
14,6694	1201,7	200	5	107,6640036	140,34298	30,979678	-98,02608	14,6694
14,8146	1239,6	200	5	107,7495552	140,47057	30,852086	-98,15367	14,8146
14,9599	1236,7	200	5	107,8343304	140,59701	30,725651	-98,28011	14,9599
15,1051	1202,3	200	5	107,9182287	140,72213	30,600524	-98,40523	15,1051
15,2504	1168,4	200	5	108,0013813	140,84615	30,476509	-98,52925	15,2504
15,3956	1154,9	200	5	108,083689	140,9689	30,353754	-98,652	15,3956
15,5409	1146,8	200	5	108,1652799	141,09059	30,232068	-98,77369	15,5409
15,6861	1136,9	200	5	108,2460562	141,21106	30,111598	-98,89416	15,6861
15,8313	1133,6	200	5	108,3260881	141,33042	29,992237	-99,01352	15,8313
15,9766	1139,5	200	5	108,4054438	141,44877	29,873885	-99,13187	15,9766
16,1218	1166,7	200	5	108,4840272	141,56597	29,756685	-99,24907	16,1218
16,2671	1216,7	200	5	108,5619593	141,6822	29,640456	-99,3653	16,2671
16,4123	1232,5	200	5	108,6391455	141,79732	29,525339	-99,48042	16,4123
16,5575	1242,6	200	5	108,7156518	141,91142	29,411237	-99,59452	16,5575
16,7028	1267,8	200	5	108,7915422	142,0246	29,298053	-99,7077	16,7028
16,848	1308,8	200	5	108,8667236	142,13673	29,185926	-99,81983	16,848
16,9933	1358,7	200	5	108,9413111	142,24797	29,074686	-99,93107	16,9933
17,1385	1396,5	200	5	109,0152127	142,35819	28,964468	-100,0413	17,1385
17,2837	1418,4	200	5	109,088491	142,46748	28,85518	-100,1506	17,2837
17,429	1436	200	5	109,161206	142,57592	28,746732	-100,259	17,429
17,5742	1434,7	200	5	109,2332679	142,6834	28,639258	-100,3665	17,5742
17,7195	1434,1	200	5	109,3047858	142,79006	28,532595	-100,4732	17,7195

17,8647	1444,7	200	5	109,3756711	142,89578	28,426876	-100,5789	17,8647
18,01	1457,3	200	5	109,4460308	143,00072	28,32194	-100,6838	18,01
18,1552	1457,2	200	5	109,5157773	143,10474	28,217919	-100,7878	18,1552
18,3004	1478,8	200	5	109,5849682	143,20793	28,114727	-100,891	18,3004
18,4457	1499	200	5	109,6536594	143,31038	28,01228	-100,9935	18,4457
18,5909	1510,1	200	5	109,7217649	143,41195	27,910707	-101,095	18,5909
18,7362	1498,6	200	5	109,7893868	143,5128	27,809855	-101,1959	18,7362
18,8814	1540,9	200	5	109,8564404	143,61281	27,70985	-101,2959	18,8814
19,0266	1564,2	200	5	109,9229803	143,71204	27,610612	-101,3951	19,0266
19,1719	1590,6	200	5	109,9890597	143,8106	27,51206	-101,4937	19,1719
19,3171	1622	200	5	110,0545951	143,90834	27,41432	-101,5914	19,3171
19,4624	1612,2	200	5	110,1196845	144,00541	27,317245	-101,6885	19,4624
19,6076	1579,3	200	5	110,1842453	144,1017	27,220958	-101,7848	19,6076
19,7529	1545	200	5	110,2483739	144,19734	27,125316	-101,8804	19,7529
19,8981	1518,5	200	5	110,3119888	144,29222	27,03044	-101,9753	19,8981
20,0433	1485,9	200	5	110,3751411	144,3864	26,936253	-102,0695	20,0433
20,1886	1490,5	200	5	110,4378806	144,47997	26,842683	-102,1631	20,1886
20,3338	1512,4	200	5	110,5001275	144,57281	26,749847	-102,2559	20,3338
20,4791	1490,9	200	5	110,5619739	144,66505	26,657609	-102,3481	20,4791
20,6243	1509,1	200	5	110,6233409	144,75657	26,566085	-102,4397	20,6243
20,7695	1534,8	200	5	110,6842774	144,84745	26,475204	-102,5306	20,7695
20,9148	1510	200	5	110,7448309	144,93776	26,384893	-102,6209	20,9148
21,06	1473	200	5	110,8049239	145,02739	26,29527	-102,7105	21,06
21,2053	1478,3	200	5	110,864645	145,11646	26,206201	-102,7996	21,2053
21,3505	1459,9	200	5	110,9239176	145,20486	26,117801	-102,888	21,3505
21,4958	1456,4	200	5	110,9828288	145,29272	26,02994	-102,9758	21,4958
21,641	1455,7	200	5	111,0413031	145,37993	25,942731	-103,063	21,641
21,7862	1465,1	200	5	111,0993863	145,46655	25,856105	-103,1497	21,7862
21,9315	1477,2	200	5	111,1571233	145,55266	25,769995	-103,2358	21,9315
22,0767	1483,6	200	5	111,2144397	145,63814	25,684513	-103,3212	22,0767
22,222	1492,7	200	5	111,2714194	145,72312	25,599533	-103,4062	22,222
22,3672	1503,7	200	5	111,327989	145,80749	25,515164	-103,4906	22,3672
22,5124	1499,9	200	5	111,3841925	145,89132	25,431341	-103,5744	22,5124
22,6577	1459	200	5	111,440073	145,97466	25,348	-103,6578	22,6577
22,8029	1428,8	200	5	111,4955582	146,05741	25,265249	-103,7405	22,8029
22,9482	1404,8	200	5	111,5507291	146,13969	25,182967	-103,8228	22,9482
23,0934	1369,3	200	5	111,6055141	146,2214	25,101259	-103,9045	23,0934
23,2387	1341,2	200	5	111,6599932	146,30265	25,020009	-103,9857	23,2387
23,3839	1335,8	200	5	111,7140955	146,38334	24,93932	-104,0664	23,3839
23,5291	1331,4	200	5	111,7678629	146,46353	24,859131	-104,1466	23,5291
23,6744	1327,9	200	5	111,8213362	146,54328	24,77938	-104,2264	23,6744
23,8196	1333,9	200	5	111,8744459	146,62249	24,700171	-104,3056	23,8196
23,9649	1326,1	200	5	111,927269	146,70127	24,62139	-104,3844	23,9649
24,1101	1312	200	5	111,9797368	146,77952	24,543139	-104,4626	24,1101
24,2553	1275,4	200	5	112,0318896	146,8573	24,465358	-104,5404	24,2553
24,4006	1268	200	5	112,0837667	146,93467	24,387988	-104,6178	24,4006
24,5458	1262	200	5	112,1353004	147,01153	24,31113	-104,6946	24,5458
24,6911	1265	200	5	112,1865653	147,08798	24,234672	-104,7711	24,6911

24,8363	1257,6	200	5	112,2374945	147,16394	24,158716	-104,847	24,8363
24,9816	1257,6	200	5	112,2881616	147,23951	24,08315	-104,9226	24,9816
25,1268	1267,1	200	5	112,3385002	147,31458	24,008075	-104,9977	25,1268
25,272	1268,9	200	5	112,3885488	147,38923	23,933432	-105,0723	25,272
25,4173	1247,9	200	5	112,4383449	147,46349	23,859165	-105,1466	25,4173
25,5625	1218,5	200	5	112,4878231	147,53728	23,785373	-105,2204	25,5625
25,7078	1202,7	200	5	112,5370548	147,61071	23,711948	-105,2938	25,7078
25,853	1177	200	5	112,5859755	147,68367	23,638987	-105,3668	25,853
25,9982	1120,5	200	5	112,6346222	147,75622	23,566435	-105,4393	25,9982
26,1435	1049,2	200	5	112,6830312	147,82842	23,494237	-105,5115	26,1435
26,2887	985,4	200	5	112,7311388	147,90017	23,422489	-105,5833	26,2887
26,434	915,9	200	5	112,7790143	147,97157	23,351086	-105,6547	26,434
26,5792	919,2	200	5	112,8265947	148,04253	23,280124	-105,7256	26,5792
26,7245	960,7	200	5	112,8739483	148,11316	23,209501	-105,7963	26,7245
26,8697	990,7	200	5	112,9210129	148,18335	23,139308	-105,8664	26,8697
27,0149	985,5	200	5	112,9678239	148,25316	23,069494	-105,9363	27,0149
27,1602	930,3	200	5	113,0144158	148,32265	23,000006	-106,0058	27,1602
27,3054	878,9	200	5	113,0607274	148,39172	22,930936	-106,0748	27,3054
27,4507	879,2	200	5	113,106825	148,46047	22,862185	-106,1436	27,4507
27,5959	944,1	200	5	113,1526478	148,52881	22,793845	-106,2119	27,5959
27,7411	924,9	200	5	113,1982301	148,59679	22,725863	-106,2799	27,7411
27,8864	865,4	200	5	113,2436056	148,66447	22,658189	-106,3476	27,8864
28,0316	808,8	200	5	113,2887143	148,73174	22,590913	-106,4148	28,0316
28,1769	784,7	200	5	113,3336208	148,79872	22,523939	-106,4818	28,1769
28,3221	831,2	200	5	113,3782656	148,8653	22,457355	-106,5484	28,3221
28,4674	922,9	200	5	113,4227126	148,93159	22,391067	-106,6147	28,4674
28,6126	1013,6	200	5	113,466903	148,9975	22,32516	-106,6806	28,6126
28,7578	1082,5	200	5	113,5108698	149,06307	22,259588	-106,7462	28,7578
28,9031	1122,5	200	5	113,5546451	149,12836	22,194301	-106,8115	28,9031
29,0483	1090,9	200	5	113,598171	149,19327	22,129386	-106,8764	29,0483

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