

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)
0,00	2056,90	45,00	5	0	0	171,32266	42,3169	0
0,058	2081,8	30,00	1	59,60431644	73,379283	93,943373	-35,06238	0,058
0,116	2086,5	30,00	5	65,62491636	83,983021	87,339635	-41,66612	0,116
0,174	2091,4	30,00	5	69,14674154	90,185811	81,136846	-47,86891	0,174
0,232	2078,9	30,00	5	71,64551627	94,58676	76,735897	-52,26986	0,232
0,2901	2047,3	54,60	4	73,58671115	95,327021	74,995636	-54,01012	0,2901
0,3481	2017,2	84,70	3	75,16983704	95,917526	73,40513	-55,60063	0,3481
0,4061	1985,6	116,30	2,5	76,50841636	96,527498	72,295159	-56,7106	0,4061
0,4641	1953,5	148,40	1,5	77,66798794	97,11456	70,708096	-58,29766	0,4641
0,5221	1923,4	178,50	1	78,69083044	97,723304	69,599353	-59,4064	0,5221
0,5801	1895,6	200,00	1	79,60581388	98,496639	68,826018	-60,17974	0,5801
0,6381	1868,5	200,00	1	80,43353147	99,731107	67,59155	-61,41421	0,6381
0,6961	1845,9	200,00	1	81,18918925	100,8581	66,464552	-62,5412	0,6961
0,7541	1823,8	200,00	1	81,88433539	101,89485	65,427802	-63,57795	0,7541
0,8122	1805,8	200,00	1	82,52901628	102,85634	64,466317	-64,53944	0,8122
0,8702	1789,2	200,00	1	83,12813815	103,74988	63,572779	-65,43298	0,8702
0,9282	1772,5	200,00	1	83,68858785	104,58574	62,736917	-66,26884	0,9282
0,9862	1759,8	200,00	1	84,21505654	105,37092	61,951735	-67,05402	0,9862
1,0442	1748,2	200,00	1	84,71143035	106,11122	61,211437	-67,79432	1,0442
1,1022	1748	200,00	1,5	85,18096471	106,81149	61,011167	-67,99459	1,1022
1,1602	1751,4	200,00	1,5	85,6264138	107,47584	60,346819	-68,65894	1,1602
1,2182	1756,1	200,00	2,5	86,05012848	108,10777	60,714886	-68,29087	1,2182
1,2762	1764,4	200,00	3	86,45413138	108,71031	60,612351	-68,39341	1,2762
1,3343	1773,5	200,00	3	86,84082629	109,28703	60,035629	-68,97013	1,3343
1,3923	1782,8	200,00	3,5	87,21041304	109,83823	59,984423	-69,02133	1,3923
1,4503	1791,7	200,00	3,5	87,56491351	110,36694	59,455716	-69,55004	1,4503
1,5083	1799,2	200,00	4	87,90551119	110,87491	59,447744	-69,55801	1,5083
1,5663	1804,6	200,00	4	88,23325553	111,36371	58,958942	-70,04681	1,5663

1,6243	1811	200,00	4	88,54908146	111,83474	58,487915	-70,51784	1,6243
1,6823	1828,4	200,00	4,5	88,85382547	112,28924	58,533416	-70,47234	1,6823
1,7403	1845,7	200,00	5	89,14823898	112,72833	58,594324	-70,41143	1,7403
1,7983	1858,1	200,00	5	89,43299946	113,15303	58,169629	-70,83613	1,7983
1,8564	1864,8	200,00	5	89,70918777	113,56494	57,757718	-71,24804	1,8564
1,9144	1870,8	200,00	5	89,97641029	113,96348	57,359179	-71,64658	1,9144
1,9724	1868,3	200,00	5	90,23565645	114,35012	56,972536	-72,03322	1,9724
2,0304	1861,3	200,00	5	90,48738867	114,72556	56,5971	-72,40866	2,0304
2,0884	1845,5	200,00	5	90,73203026	115,09042	56,232238	-72,77352	2,0884
2,1464	1822,9	200,00	5	90,96996977	115,44528	55,877372	-73,12838	2,1464
2,2044	1798,6	200,00	5	91,20156462	115,79069	55,531968	-73,47379	2,2044
2,2624	1787,1	200,00	5	91,42714442	116,12712	55,195536	-73,81022	2,2624
2,3204	1773,1	200,00	5	91,64701371	116,45504	54,86762	-74,13814	2,3204
2,3784	1754	200,00	5	91,8614545	116,77486	54,5478	-74,45796	2,3784
2,4365	1734,3	200,00	4,5	92,07108489	117,0875	53,735155	-75,2706	2,4365
2,4945	1711,1	200,00	4,5	92,27542674	117,39226	53,430397	-75,57536	2,4945
2,5525	1660,8	200,00	4	92,47507159	117,69001	52,632644	-76,37311	2,5525
2,6105	1608,3	200,00	4	92,67023052	117,98108	52,341582	-76,66418	2,6105
2,6685	1570,3	200,00	4	92,86110072	118,26574	52,056915	-76,94884	2,6685
2,7265	1538,8	200,00	3,5	93,04786661	118,54429	51,27837	-77,72739	2,7265
2,7845	1513,3	200,00	3,5	93,23070102	118,81697	51,005689	-78,00007	2,7845
2,8425	1502,4	200,00	3,5	93,40976604	119,08403	50,738629	-78,26713	2,8425
2,9005	1489,7	200,00	3,5	93,58521397	119,34569	50,476964	-78,52879	2,9005
2,9586	1471,3	200,00	3,5	93,75748163	119,60262	50,220041	-78,78572	2,9586
3,0166	1451,3	200,00	3,5	93,92611111	119,85411	49,968545	-79,03721	3,0166
3,0746	1433	200,00	3,5	94,09152903	120,10082	49,721839	-79,28392	3,0746
3,1326	1419,8	200,00	3,5	94,25385544	120,34291	49,479743	-79,52601	3,1326
3,1906	1408	200,00	3,5	94,41320379	120,58057	49,242089	-79,76367	3,1906
3,2486	1390	200,00	3,5	94,56968137	120,81394	49,008716	-79,99704	3,2486
3,3066	1373,1	200,00	3,5	94,7233898	121,04318	48,779474	-80,22628	3,3066
3,3646	1355	200,00	3,5	94,87442538	121,26844	48,554217	-80,45154	3,3646
3,4226	1333,6	200,00	3,5	95,02287949	121,48985	48,332811	-80,67295	3,4226
3,4807	1312,3	200,00	3,5	95,16908844	121,7079	48,114753	-80,891	3,4807
3,5387	1288,8	200,00	3,5	95,31263149	121,92199	47,900671	-81,10509	3,5387
3,5967	1265,5	200,00	3,5	95,45384087	122,13259	47,69007	-81,31569	3,5967
3,6547	1243,8	200,00	3,5	95,59279124	122,33982	47,482837	-81,52292	3,6547
3,7127	1222,4	200,00	3,5	95,72955373	122,54379	47,278868	-81,72689	3,7127
3,7707	1201,2	200,00	3,5	95,86419619	122,7446	47,078061	-81,9277	3,7707
3,8287	1194,1	200,00	3,5	95,99678334	122,94234	46,880318	-82,12544	3,8287
3,8867	1186,9	200,00	3,5	96,12737698	123,13711	46,685549	-82,32021	3,8867
3,9447	1173,6	200,00	3,5	96,25603617	123,32899	46,493665	-82,51209	3,9447
4,0028	1157,5	200,00	3,5	96,3830344	123,5184	46,304259	-82,7015	4,0028
4,0608	1142,3	200,00	3,5	96,50798858	123,70476	46,1179	-82,88786	4,0608
4,1188	1128,2	200,00	3,5	96,63117065	123,88847	45,934185	-83,07157	4,1188
4,1768	1114	200,00	3,5	96,75263018	124,06962	45,753039	-83,25272	4,1768
4,2348	1107,1	200,00	3,5	96,87241466	124,24827	45,574391	-83,43137	4,2348
4,2928	1104,2	200,00	3,5	96,99056968	124,42448	45,398173	-83,60758	4,2928
4,3508	1095,6	200,00	3,5	97,10713897	124,59834	45,22432	-83,78144	4,3508
4,4088	1066,5	200,00	3,5	97,22216453	124,76989	45,052769	-83,95299	4,4088
4,4668	1039,5	200,00	3,5	97,33568672	124,9392	44,883461	-84,1223	4,4668
4,5249	1002,1	200,00	3	97,44793629	125,10661	44,216051	-84,78971	4,5249

4,5829	962,9	200,00	3	97,55856419	125,2716	44,051059	-84,9547	4,5829
4,6409	922,2	200,00	3	97,66780078	125,43451	43,888142	-85,11761	4,6409
4,6989	878,8	200,00	3	97,77568063	125,59541	43,727248	-85,27851	4,6989
4,7569	838,3	200,00	3	97,88223701	125,75433	43,568329	-85,43743	4,7569
4,8149	806,6	200,00	3	97,98750201	125,91132	43,411335	-85,59442	4,8149
4,8729	777,6	200,00	3	98,09150655	126,06643	43,256222	-85,74953	4,8729
4,9309	749	200,00	3	98,19428047	126,21971	43,102943	-85,90281	4,9309
4,9889	719,6	200,00	3	98,29585255	126,3712	42,951457	-86,0543	4,9889
5,047	690,2	200,00	2,5	98,39642267	126,52119	42,301466	-86,70429	5,047
5,105	681	200,00	2,5	98,4956715	126,66921	42,153445	-86,85231	5,105
5,163	672,9	200,00	3	98,59379907	126,81556	42,507096	-86,49866	5,163
5,221	658,9	200,00	3	98,69083044	126,96027	42,362382	-86,64337	5,221
5,279	638,5	200,00	3	98,78678981	127,10339	42,219267	-86,78649	5,279
5,337	618,8	200,00	2,5	98,88170063	127,24494	41,577716	-87,42804	5,337
5,395	612,4	200,00	3	98,97558555	127,38496	41,937695	-87,06806	5,395
5,453	604,6	200,00	3	99,06846653	127,52349	41,799171	-87,20659	5,453
5,511	493,8	200,00	2,5	99,16036479	127,66054	41,162113	-87,84364	5,511
5,5691	351,9	200,00	1,5	99,2514569	127,7964	40,026257	-88,9795	5,5691
5,6271	274,3	200,00	1,5	99,34144924	127,93062	39,892041	-89,11372	5,6271
5,6851	322,3	200,00	1,5	99,43051874	128,06345	39,759202	-89,24655	5,6851
5,7431	371,5	200,00	1,5	99,51868414	128,19495	39,627711	-89,37805	5,7431
5,8011	441,4	200,00	2,5	99,60596361	128,32512	40,497541	-88,50822	5,8011
5,8591	491,5	200,00	3	99,69237478	128,45399	40,868667	-88,13709	5,8591
5,9171	505,6	200,00	3	99,77793475	128,5816	40,741061	-88,2647	5,9171
5,9751	506,1	200,00	3	99,86266013	128,70796	40,614701	-88,39106	5,9751
6,0331	497,1	200,00	3	99,94656705	128,8331	40,489561	-88,5162	6,0331
6,0912	472,4	200,00	3	100,0298138	128,95725	40,365406	-88,64035	6,0912
6,1492	446,6	200,00	3	100,1121289	129,08002	40,24264	-88,76312	6,1492
6,2072	420,5	200,00	3	100,1936714	129,20163	40,121026	-88,88473	6,2072
6,2652	389	200,00	3	100,2744554	129,32211	40,000544	-89,00521	6,2652
6,3232	358	200,00	3	100,3544949	129,44148	39,881172	-89,12458	6,3232
6,3812	327,9	200,00	2,5	100,4338037	129,55977	39,26289	-89,74287	6,3812
6,4392	297,9	200,00	2,5	100,5123949	129,67698	39,145678	-89,86008	6,4392
6,4972	268,3	200,00	2,5	100,5902813	129,79314	39,029517	-89,97624	6,4972
6,5552	239,3	200,00	2,5	100,6674755	129,90827	38,914389	-90,09137	6,5552
6,6132	211	200,00	2,5	100,7439897	130,02238	38,800275	-90,20548	6,6132
6,6713	213,5	200,00	2,5	100,819966	130,13569	38,686963	-90,31879	6,6713
6,7293	219	200,00	2,5	100,8951544	130,24783	38,574826	-90,43093	6,7293
6,7873	230,8	200,00	3	100,9696975	130,35901	38,963651	-90,04211	6,7873
6,8453	247,3	200,00	3	101,0436063	130,46923	38,853423	-90,15233	6,8453
6,9033	262,1	200,00	3	101,1168915	130,57853	38,744124	-90,26163	6,9033
6,9613	259,9	200,00	3	101,1895636	130,68692	38,63574	-90,37002	6,9613
7,0193	257,4	200,00	3	101,2616327	130,7944	38,528255	-90,4775	7,0193
7,0773	248,9	200,00	3	101,3331087	130,901	38,421655	-90,5841	7,0773
7,1353	234,1	200,00	3	101,4040013	131,00673	38,315925	-90,68983	7,1353
7,1934	218,1	200,00	3	101,4744408	131,11179	38,210871	-90,79489	7,1934
7,2514	213,7	200,00	3	101,5441938	131,21582	38,10684	-90,89892	7,2514
7,3094	212,5	200,00	3	101,6133912	131,31902	38,003638	-91,00212	7,3094
7,3674	213,4	200,00	3	101,6820416	131,4214	37,901252	-91,1045	7,3674
7,4254	211,6	200,00	3	101,7501536	131,52299	37,799669	-91,20609	7,4254
7,4834	203,8	200,00	3	101,8177358	131,62378	37,698876	-91,30688	7,4834

7,5414	185,6	200,00	3	101,8847961	131,7238	37,598862	-91,40689	7,5414
7,5994	165,7	200,00	3	101,9513427	131,82304	37,499613	-91,50614	7,5994
7,6574	147,2	200,00	3	102,0173833	131,92154	37,401119	-91,60464	7,6574
7,7155	129,6	200,00	3	102,0830381	132,01946	37,303201	-91,70256	7,7155
7,7735	112,3	200,00	3	102,1480886	132,11647	37,206184	-91,79957	7,7735
7,8315	95,4	200,00	3	102,2126556	132,21277	37,109888	-91,89587	7,8315
7,8895	80,6	200,00	3	102,2767462	132,30835	37,014302	-91,99145	7,8895
7,9475	68,2	200,00	3	102,3403673	132,40324	36,919417	-92,08634	7,9475
8,0055	55,5	200,00	3	102,4035258	132,49744	36,825222	-92,18054	8,0055
8,0635	43,5	200,00	3	102,4662284	132,59095	36,731706	-92,27405	8,0635
8,1215	33,4	200,00	3	102,5284815	132,6838	36,638861	-92,3669	8,1215
8,1795	23,3	200,00	3	102,5902917	132,77598	36,546677	-92,45908	8,1795
8,2376	20,9	200,00	3	102,6517706	132,86767	36,454986	-92,55077	8,2376
8,2956	18,7	200,00	3	102,7127126	132,95856	36,364096	-92,64166	8,2956
8,3536	16,8	200,00	3	102,7732301	133,04882	36,27384	-92,73192	8,3536
8,4116	15,3	200,00	3	102,8333288	133,13845	36,184208	-92,82155	8,4116
8,4696	13,9	200,00	3	102,8930146	133,22746	36,095192	-92,91056	8,4696
8,5276	11,4	200,00	3	102,952293	133,31587	36,006783	-92,99897	8,5276
8,5856	9,1	200,00	3	103,0111696	133,40368	35,918974	-93,08678	8,5856
8,6436	7,3	200,00	3	103,0696498	133,4909	35,831756	-93,174	8,6436
8,7016	6,2	200,00	3	103,1277389	133,57754	35,745121	-93,26064	8,7016
8,7597	5,3	200,00	3,5	103,1855412	133,66374	36,158914	-92,84684	8,7597
8,8177	3,5	200,00	3,5	103,242863	133,74923	36,073423	-92,93233	8,8177
8,8757	1	200,00	3,5	103,2998089	133,83416	35,988494	-93,01726	8,8757
8,9337	0	200,00	3,5	103,3563839	133,91854	35,904117	-93,10164	8,9337
8,9917	0	200,00	3,5	103,4125927	134,00237	35,820286	-93,18547	8,9917
9,0497	0	200,00	3,5	103,4684402	134,08566	35,736995	-93,26876	9,0497
9,1077	0	200,00	3,5	103,5239309	134,16842	35,654235	-93,35152	9,1077
9,1657	0	200,00	3,5	103,5790693	134,25066	35,572001	-93,43376	9,1657
9,2237	0	200,00	3,5	103,63386	134,33237	35,490286	-93,51547	9,2237
9,2818	0	200,00	3,5	103,6884007	134,41371	35,408943	-93,59681	9,2818
9,3398	0	200,00	3,5	103,7425081	134,49441	35,328246	-93,67751	9,3398
9,3978	0	200,00	3,5	103,7962805	134,57461	35,248049	-93,75771	9,3978
9,4558	0	200,00	3,5	103,8497221	134,65431	35,168346	-93,83741	9,4558
9,5138	0	200,00	3,5	103,9028369	134,73353	35,08913	-93,91663	9,5138
9,5718	0	200,00	3,5	103,9556289	134,81226	35,010395	-93,99536	9,5718
9,6298	0	200,00	3,5	104,0081019	134,89052	34,932136	-94,07362	9,6298
9,6878	0	200,00	3,5	104,0602599	134,96831	34,854347	-94,15141	9,6878
9,7458	0	200,00	3,5	104,1121065	135,04563	34,777023	-94,22873	9,7458
9,8039	0	200,00	3,5	104,163734	135,12263	34,700025	-94,30573	9,8039
9,8619	0	200,00	3,5	104,2149685	135,19904	34,623613	-94,38214	9,8619
9,9199	0	200,00	3,5	104,2659025	135,27501	34,547649	-94,45811	9,9199
9,9779	0	200,00	3,5	104,3165395	135,35053	34,472129	-94,53363	9,9779
10,0359	0	200,00	3,5	104,3668831	135,42561	34,397046	-94,60871	10,0359
10,0939	0	200,00	3,5	104,4169365	135,50026	34,322395	-94,68336	10,0939
10,1519	0	200,00	3,5	104,4667032	135,57448	34,248173	-94,75758	10,1519
10,2099	0	200,00	3,5	104,5161863	135,64828	34,174373	-94,83138	10,2099
10,2679	0	200,00	3,5	104,5653892	135,72167	34,100991	-94,90477	10,2679
10,326	0	200,00	3,5	104,614399	135,79476	34,027897	-94,97786	10,326
10,384	0	200,00	4	104,6630502	135,86732	34,455338	-94,55042	10,384
10,442	0	200,00	4	104,7114304	135,93947	34,383183	-94,62257	10,442

10,5	0	200,00	4	104,7595426	136,01123	34,311428	-94,69433	10,5
10,558	0	200,00	4	104,8073897	136,08259	34,240068	-94,76569	10,558
10,616	0	200,00	4	104,8549748	136,15356	34,169099	-94,83666	10,616
10,674	0	200,00	4	104,9023005	136,22414	34,098517	-94,90724	10,674
10,732	0	200,00	4	104,9493699	136,29434	34,028317	-94,97744	10,732
10,79	0	200,00	4	104,9961855	136,36416	33,958496	-95,04726	10,79
10,848	0	200,00	4	105,0427501	136,43361	33,889049	-95,11671	10,848
10,9061	0	200,00	4	105,0891461	136,5028	33,819853	-95,1859	10,9061
10,9641	0	200,00	4	105,1352163	136,57151	33,751144	-95,25461	10,9641
11,0221	0	200,00	4	105,1810435	136,63986	33,682796	-95,32296	11,0221
11,0801	0	200,00	4	105,2266302	136,70785	33,614808	-95,39095	11,0801
11,1381	0	200,00	4	105,2719788	136,77548	33,547174	-95,45858	11,1381
11,1961	0	200,00	4	105,3170919	136,84276	33,479892	-95,52586	11,1961
11,2541	0	200,00	4	105,361972	136,9097	33,412957	-95,5928	11,2541
11,3121	0	200,00	4	105,4066213	136,97629	33,346367	-95,65939	11,3121
11,3701	0	200,00	4	105,4510423	137,04254	33,280117	-95,72564	11,3701
11,4282	0	200,00	4	105,4953132	137,10857	33,214091	-95,79167	11,4282
11,4862	0	200,00	4	105,5392841	137,17414	33,148512	-95,85724	11,4862
11,5442	0	200,00	4	105,5830334	137,23939	33,083264	-95,92249	11,5442
11,6022	0	200,00	4	105,6265635	137,30431	33,018342	-95,98741	11,6022

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