

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
0,0577	2079,2	30,00	0	59,55927284	73,29995054	93,022706	-35,98305	0,0577
0,1154	2084,8	30,00	5	65,57987275	83,90368872	87,418968	-41,58679	0,1154
0,1731	2090,5	30,00	5	69,10169793	90,10647792	81,216179	-47,78958	0,1731
0,2308	2091,2	30,00	5	71,60047266	94,5074269	76,81523	-52,19053	0,2308
0,2885	2065,9	36,00	5	73,53867292	97,10677176	74,215885	-54,78987	0,2885
0,3462	2041,9	60,00	4	75,12229784	97,4583118	72,864345	-56,14141	0,3462
0,4039	2015,2	86,70	3,5	76,46123364	97,88741126	71,935245	-57,07051	0,4039
0,4617	1986,1	115,80	3	77,62295406	98,29742094	71,025236	-57,98052	0,4617
0,5194	1956,1	145,80	2,5	78,64579548	98,70615844	70,116498	-58,88926	0,5194
0,5771	1935,1	166,80	2,5	79,56077806	99,39567579	69,426981	-59,57878	0,5771
0,6348	1916,1	185,80	2,5	80,38849493	100,0646149	68,758042	-60,24771	0,6348
0,6925	1897,8	200,00	2,5	81,14415213	100,7909357	68,031721	-60,97404	0,6925
0,7502	1878,8	200,00	1,5	81,83929777	101,8276848	65,994972	-63,01078	0,7502
0,8079	1857,3	200,00	1,5	82,48290874	102,7875743	65,035082	-63,97067	0,8079
0,8656	1843,5	200,00	1,5	83,08210153	103,681218	64,141439	-64,86432	0,8656
0,9233	1834,6	200,00	2,5	83,64261328	104,5171724	64,305484	-64,70027	0,9233
0,981	1829,7	200,00	2,5	84,16913672	105,3024361	63,520221	-65,48554	0,981
1,0387	1829,9	169,95	3	84,66555921	107,0275215	62,295135	-66,71062	1,0387
1,0964	1831,4	176,24	3	85,13513711	107,516678	61,805979	-67,19978	1,0964
1,1541	1841,9	191,82	3,5	85,58062539	107,6656235	62,157033	-66,84872	1,1541
1,2118	1862,6	194,61	4	86,00437554	108,2099339	62,112723	-66,89303	1,2118
1,2696	1885,7	195,81	4	86,40909485	108,7764226	61,546234	-67,45952	1,2696
1,3273	1902,7	195,99	4,5	86,79513846	109,3475521	61,475105	-67,53065	1,3273
1,385	1920,6	200,00	5	87,16475204	109,7701348	61,552522	-67,45323	1,385

1,4427	1937,6	200,00	5	87,51927721	110,2988781	61,023779	-67,98198	1,4427
1,5004	1952,6	199,18	5	87,85989768	110,8337261	60,488931	-68,51683	1,5004
1,5581	1968,4	196,19	5	88,18766312	111,4216647	59,900992	-69,10476	1,5581
1,6158	1978,7	199,06	5	88,50350865	111,7977212	59,524935	-69,48082	1,6158
1,6735	1978,6	195,77	5	88,80827091	112,3632158	58,959441	-70,04632	1,6735
1,7312	1973,4	192,97	5	89,10270144	112,899559	58,423098	-70,58266	1,7312
1,7889	1955,1	191,12	5	89,38747785	113,3903519	57,932305	-71,07345	1,7889
1,8466	1934,1	190,22	5	89,6632132	113,8351659	57,487491	-71,51827	1,8466
1,9043	1906,4	194,41	5	89,93046392	114,0877345	57,234922	-71,77083	1,9043
1,962	1869,6	195,81	5	90,18973663	114,4263017	56,896355	-72,1094	1,962
2,0197	1827,5	198,62	5	90,44149388	114,7047531	56,617904	-72,38785	2,0197
2,0775	1788,4	200,00	4,5	90,68657722	115,0226295	55,800027	-73,20573	2,0775
2,1352	1749	200,00	4,5	90,92452779	115,377512	55,445145	-73,56061	2,1352
2,1929	1710,6	200,00	4	91,15613312	115,7229311	54,599726	-74,40603	2,1929
2,2506	1676,3	200,00	4	91,38172286	116,0593785	54,263278	-74,74248	2,2506
2,3083	1638,3	200,00	4	91,6016016	116,3873084	53,935348	-75,07041	2,3083
2,366	1611,9	200,00	3,5	91,81605138	116,7071416	53,115515	-75,89024	2,366
2,4237	1587	200,00	3,5	92,02533383	117,0192681	52,803389	-76,20237	2,4237
2,4814	1557,6	200,00	3,5	92,22969213	117,3240506	52,498606	-76,50715	2,4814
2,5391	1526,2	200,00	3,5	92,42935268	117,6218269	52,20083	-76,80493	2,5391
2,5968	1495,2	200,00	3,5	92,62452662	117,9129118	51,909745	-77,09601	2,5968
2,6545	1466,4	200,00	3,5	92,81541117	118,1975994	51,625057	-77,3807	2,6545
2,7122	1442,3	200,00	3	93,00219081	118,4761649	50,846492	-78,15926	2,7122
2,7699	1419,2	200,00	3	93,18503838	118,7488661	50,573791	-78,43197	2,7699
2,8276	1391,6	200,00	3	93,36411603	119,0159448	50,306712	-78,69904	2,8276
2,8854	1359,9	200,00	3	93,53987712	119,2780771	50,04458	-78,96118	2,8854
2,9431	1326,7	200,00	3	93,71185695	119,53457	49,788087	-79,21767	2,9431
3,0008	1300,3	200,00	3	93,8804976	119,7860828	49,536574	-79,46918	3,0008
3,0585	1278,6	200,00	3	94,04592627	120,0328052	49,289851	-79,71591	3,0585
3,1162	1259,5	200,00	3	94,20826304	120,2749163	49,04774	-79,95802	3,1162
3,1739	1240,2	200,00	3	94,36762136	120,5125854	48,810071	-80,19569	3,1739
3,2316	1221,8	200,00	3	94,52410856	120,7459724	48,576684	-80,42907	3,2316
3,2893	1200,6	200,00	3	94,67782627	120,9752289	48,347428	-80,65833	3,2893
3,347	1180,2	200,00	3	94,82887082	121,2004987	48,122158	-80,8836	3,347
3,4047	1169,4	200,00	3	94,97733359	121,4219179	47,900739	-81,10502	3,4047
3,4624	1174,6	200,00	3	95,12330135	121,6396161	47,683041	-81,32272	3,4624
3,5201	1180,6	200,00	3	95,2668566	121,8537162	47,46894	-81,53682	3,5201
3,5778	1178,4	200,00	3	95,40807777	122,0643352	47,258321	-81,74744	3,5778
3,6355	1168,5	200,00	3	95,54703955	122,2715846	47,051072	-81,95468	3,6355
3,6933	1154,5	200,00	3	95,68404829	122,4759212	46,846735	-82,15902	3,6933
3,751	1135,7	200,00	3	95,81869786	122,6767392	46,645917	-82,35984	3,751
3,8087	1117	200,00	3	95,95129189	122,8744917	46,448165	-82,55759	3,8087
3,8664	1105,7	200,00	3	96,08189222	123,0692707	46,253386	-82,75237	3,8664
3,9241	1103	200,00	3	96,2105579	123,2611643	46,061492	-82,94426	3,9241
3,9818	1101,3	200,00	3	96,33734542	123,4502568	45,8724	-83,13336	3,9818
4,0395	1100,4	200,00	3	96,46230882	123,6366288	45,686028	-83,31973	4,0395
4,0972	1100,2	200,00	3	96,58549985	123,8203575	45,502299	-83,50346	4,0972
4,1549	1103,1	200,00	3	96,70696809	124,0015167	45,32114	-83,68462	4,1549

4,2126	1103,7	200,00	3,5	96,82676104	124,1801775	45,642479	-83,36328	4,2126
4,2703	1103,2	200,00	3,5	96,9449243	124,3564076	45,466249	-83,53951	4,2703
4,328	1099,4	200,00	3,5	97,06150161	124,5302725	45,292384	-83,71337	4,328
4,3857	1094,4	200,00	3,5	97,17653499	124,7018348	45,120822	-83,88493	4,3857
4,4434	1088,8	200,00	3,5	97,29006479	124,8711545	44,951502	-84,05425	4,4434
4,5012	1081,5	200,00	3,5	97,40232278	125,0385775	44,784079	-84,22168	4,5012
4,5589	1071,3	200,00	3,5	97,51295789	125,2035801	44,619077	-84,38668	4,5589
4,6166	1059,6	200,00	3,5	97,62220152	125,3665075	44,456149	-84,54961	4,6166
4,6743	1046,6	200,00	3,5	97,73008822	125,5274111	44,295246	-84,71051	4,6743
4,732	1029,6	200,00	3,5	97,83665129	125,6863406	44,136316	-84,86944	4,732
4,7897	1002,5	200,00	3,5	97,94192282	125,8433439	43,979313	-85,02644	4,7897
4,8474	973,8	200,00	3,5	98,04593374	125,9984671	43,82419	-85,18157	4,8474
4,9051	948,2	200,00	3,5	98,14871389	126,1517547	43,670902	-85,33485	4,9051
4,9628	935,6	200,00	3,5	98,25029204	126,3032496	43,519407	-85,48635	4,9628
5,0205	928,5	200,00	3,5	98,350696	126,4529934	43,369663	-85,63609	5,0205
5,0782	937,1	200,00	3,5	98,4499526	126,6010259	43,221631	-85,78413	5,0782
5,1359	960,9	200,00	3,5	98,54808775	126,7473859	43,075271	-85,93049	5,1359
5,1936	988	200,00	3,5	98,64512654	126,8921108	42,930546	-86,07521	5,1936
5,2513	1005,4	200,00	3,5	98,74109317	127,0352367	42,78742	-86,21834	5,2513
5,3091	1014,9	200,00	3,5	98,83617469	127,1770424	42,645614	-86,36014	5,3091
5,3668	1009,7	200,00	3,5	98,93006479	127,3170713	42,505585	-86,50017	5,3668
5,4245	982,2	200,00	3,5	99,02295084	127,4556028	42,367054	-86,6387	5,4245
5,4822	954,2	200,00	3,5	99,11485408	127,5926684	42,229988	-86,77577	5,4822
5,5399	920,8	200,00	3,5	99,20579508	127,728299	42,094358	-86,9114	5,5399
5,5976	886,7	200,00	3,5	99,29579379	127,8625242	41,960132	-87,04562	5,5976
5,6553	854,6	200,00	3,5	99,38486954	127,9953729	41,827284	-87,17847	5,6553
5,713	822,6	200,00	3,5	99,47304105	128,126873	41,695784	-87,30997	5,713
5,7707	793	200,00	3,5	99,56032652	128,2570517	41,565605	-87,44015	5,7707
5,8284	765,5	200,00	3,5	99,64674356	128,3859351	41,436722	-87,56904	5,8284
5,8861	737,2	200,00	3,5	99,7323093	128,513549	41,309108	-87,69665	5,8861
5,9438	707,7	200,00	3,5	99,81704033	128,6399179	41,182739	-87,82302	5,9438
6,0015	695,7	200,00	3,5	99,90095278	128,765066	41,057591	-87,94817	6,0015
6,0592	685,9	200,00	3,5	99,98406233	128,8890166	40,93364	-88,07212	6,0592
6,117	672,7	200,00	3,5	100,0665262	129,0120043	40,810652	-88,1951	6,117
6,1747	651,4	200,00	3,5	100,1480738	129,1336254	40,689031	-88,31673	6,1747
6,2324	629,2	200,00	3,5	100,228863	129,2541154	40,568541	-88,43722	6,2324
6,2901	607,7	200,00	3,5	100,3089076	129,3734949	40,449162	-88,55659	6,2901
6,3478	590,9	200,00	3,5	100,3882213	129,4917844	40,330872	-88,67488	6,3478
6,4055	577,1	200,00	3,5	100,4668173	129,6090035	40,213653	-88,7921	6,4055
6,4632	563,9	200,00	3,5	100,5447085	129,7251714	40,097485	-88,90827	6,4632
6,5209	549,8	200,00	3,5	100,6219074	129,8403068	39,98235	-89,02341	6,5209
6,5786	530,9	200,00	3,5	100,6984262	129,9544279	39,868229	-89,13753	6,5786
6,6363	497,9	200,00	3	100,7742768	130,0675525	39,255104	-89,75065	6,6363
6,694	467,7	200,00	3	100,8494707	130,1796977	39,142959	-89,8628	6,694
6,7517	442,1	200,00	3	100,9240193	130,2908804	39,031776	-89,97398	6,7517
6,8094	418,4	200,00	3	100,9979335	130,4011169	38,92154	-90,08422	6,8094
6,8671	396,6	200,00	3	101,071224	130,5104233	38,812233	-90,19352	6,8671
6,9249	379,2	200,00	3	101,1440267	130,6190022	38,703654	-90,3021	6,9249

6,9826	356,5	200,00	3	101,2160999	130,726493	38,596164	-90,40959	6,9826
7,0403	334,6	200,00	3	101,2875799	130,8330992	38,489557	-90,5162	7,0403
7,098	310,1	200,00	3	101,3584765	130,9388353	38,383821	-90,62194	7,098
7,1557	286,5	200,00	3	101,4287991	131,0437153	38,278941	-90,72682	7,1557
7,2134	270,4	200,00	3	101,4985569	131,147753	38,174904	-90,83085	7,2134
7,2711	254,6	200,00	3	101,5677589	131,2509618	38,071695	-90,93406	7,2711
7,3288	233,9	200,00	3	101,636414	131,3533548	37,969302	-91,03645	7,3288
7,3865	208,9	200,00	3	101,7045306	131,4549448	37,867712	-91,13804	7,3865
7,4442	186	200,00	3	101,7721172	131,5557444	37,766912	-91,23884	7,4442
7,5019	168,3	200,00	3	101,839182	131,6557656	37,666891	-91,33887	7,5019
7,5596	153,2	200,00	3	101,9057329	131,7550205	37,567636	-91,43812	7,5596
7,6173	139,3	200,00	3	101,9717778	131,8535206	37,469136	-91,53662	7,6173
7,675	130,9	200,00	3	102,0373243	131,9512775	37,371379	-91,63438	7,675
7,7328	126,3	200,00	3	102,1024921	132,0484697	37,274187	-91,73157	7,7328
7,7905	123,1	200,00	3	102,1670632	132,1447718	37,177885	-91,82787	7,7905
7,8482	121,5	200,00	3	102,2311578	132,2403633	37,082293	-91,92346	7,8482
7,9059	120,3	200,00	3	102,2947829	132,3352546	36,987402	-92,01835	7,9059
7,9636	120,6	200,00	3	102,3579453	132,4294558	36,893201	-92,11256	7,9636
8,0213	121,7	200,00	3	102,4206518	132,522977	36,79968	-92,20608	8,0213
8,079	120,2	200,00	3	102,4829087	132,6158278	36,706829	-92,29893	8,079
8,1367	116,1	200,00	3	102,5447227	132,7080179	36,614639	-92,39112	8,1367
8,1944	111,3	200,00	3	102,6060998	132,7995565	36,5231	-92,48266	8,1944
8,2521	105,4	200,00	3	102,6670462	132,8904528	36,432204	-92,57355	8,2521
8,3098	98,7	200,00	3	102,727568	132,9807158	36,341941	-92,66382	8,3098
8,3675	91,3	200,00	3	102,787671	133,0703541	36,252303	-92,75345	8,3675
8,4252	84,8	200,00	3,5	102,847361	133,1593765	36,66328	-92,34248	8,4252
8,4829	78,3	200,00	3,5	102,9066435	133,2477913	36,574865	-92,43089	8,4829
8,5407	71,8	200,00	3,5	102,9656259	133,3357584	36,486898	-92,51886	8,5407
8,5984	65,1	200,00	3,5	103,0241095	133,4229815	36,399675	-92,60608	8,5984
8,6561	58,2	200,00	3,5	103,0822019	133,5096212	36,313035	-92,69272	8,6561
8,7138	51,2	200,00	3,5	103,1399083	133,5956854	36,226971	-92,77879	8,7138
8,7715	44,1	200,00	3,5	103,1972339	133,6811815	36,141475	-92,86428	8,7715
8,8292	37,4	200,00	3,5	103,2541837	133,766117	36,05654	-92,94922	8,8292
8,8869	31,4	200,00	3,5	103,3107624	133,8504993	35,972157	-93,0336	8,8869
8,9446	25,2	200,00	3,5	103,366975	133,9343355	35,888321	-93,11744	8,9446
9,0023	20,4	200,00	3,5	103,4228262	134,0176327	35,805024	-93,20073	9,0023
9,06	17	200,00	3,5	103,4783205	134,1003976	35,722259	-93,2835	9,06
9,1177	14,2	200,00	3,5	103,5334625	134,1826371	35,64002	-93,36574	9,1177
9,1754	13,2	200,00	3,5	103,5882567	134,2643578	35,558299	-93,44746	9,1754
9,2331	12,4	200,00	3,5	103,6427074	134,3455662	35,47709	-93,52867	9,2331
9,2908	11,4	200,00	3,5	103,6968188	134,4262687	35,396388	-93,60937	9,2908
9,3486	9,6	200,00	3,5	103,7506881	134,5066101	35,316047	-93,68971	9,3486
9,4063	7,6	200,00	3,5	103,8041331	134,5863186	35,236338	-93,76942	9,4063
9,464	6,6	200,00	3,5	103,8572512	134,6655396	35,157117	-93,84864	9,464
9,5217	5,9	200,00	3,5	103,9100465	134,7442791	35,078378	-93,92738	9,5217
9,5794	5,1	200,00	3,5	103,9625227	134,8225429	35,000114	-94,00564	9,5794
9,6371	4,4	200,00	3,5	104,0146839	134,9003367	34,92232	-94,08344	9,6371
9,6948	3,6	200,00	3,5	104,0665337	134,9776661	34,844991	-94,16077	9,6948

9,7525	3	200,00	3,5	104,1180758	135,0545367	34,76812	-94,23764	9,7525
9,8102	2,8	200,00	3,5	104,1693138	135,1309537	34,691703	-94,31405	9,8102
9,8679	2,7	200,00	3,5	104,2202514	135,2069227	34,615734	-94,39002	9,8679
9,9256	2	200,00	3,5	104,270892	135,2824487	34,540208	-94,46555	9,9256
9,9833	1,2	200,00	3,5	104,321239	135,3575369	34,46512	-94,54064	9,9833
10,041	0,5	200,00	3,5	104,3712959	135,4321924	34,390464	-94,61529	10,041
10,0987	0,5	200,00	3,5	104,421066	135,5064201	34,316237	-94,68952	10,0987
10,1565	0,2	200,00	3,5	104,470638	135,5803525	34,242304	-94,76345	10,1565
10,2142	0	200,00	3,5	104,5198437	135,6537385	34,168918	-94,83684	10,2142
10,2719	0	200,00	3,5	104,5687722	135,7267111	34,095946	-94,90981	10,2719
10,3296	0	200,00	3,5	104,6174267	135,7992749	34,023382	-94,98237	10,3296
10,3873	0	200,00	4	104,6658101	135,8714346	34,451222	-94,55453	10,3873
10,445	0	200,00	4	104,7139255	135,9431945	34,379462	-94,62629	10,445
10,5027	0	200,00	4	104,7617758	136,014559	34,308098	-94,69766	10,5027
10,5604	0	200,00	4	104,8093639	136,0855326	34,237124	-94,76863	10,5604
10,6181	0	200,00	4	104,8566928	136,1561195	34,166537	-94,83922	10,6181
10,6758	0	200,00	4	104,9037652	136,2263238	34,096333	-94,90942	10,6758
10,7335	0	200,00	4	104,9505838	136,2961497	34,026507	-94,97925	10,7335
10,7912	0	200,00	4	104,9971514	136,3656012	33,957055	-95,0487	10,7912
10,8489	0	200,00	4	105,0434707	136,4346824	33,887974	-95,11778	10,8489
10,9066	0	200,00	4	105,0895443	136,5033971	33,81926	-95,1865	10,9066
10,9644	0	200,00	4	105,135454	136,5718675	33,750789	-95,25497	10,9644
11,0221	0	200,00	4	105,1810435	136,6398602	33,682796	-95,32296	11,0221
11,0798	0	200,00	4	105,226395	136,707498	33,615159	-95,3906	11,0798
11,1375	0	200,00	4	105,2715109	136,7747845	33,547872	-95,45788	11,1375
11,1952	0	200,00	4	105,3163937	136,8417232	33,480933	-95,52482	11,1952
11,2529	0	200,00	4	105,3610458	136,9083179	33,414339	-95,59142	11,2529
11,3106	0	200,00	4	105,4054694	136,9745719	33,348085	-95,65767	11,3106
11,3683	0	200,00	4	105,4496671	137,0404888	33,282168	-95,72359	11,3683
11,426	0	200,00	4	105,493641	137,106072	33,216585	-95,78917	11,426
11,4837	0	200,00	4	105,5373933	137,1713249	33,151332	-95,85442	11,4837
11,5414	0	200,00	4	105,5809264	137,2362507	33,086406	-95,91935	11,5414

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