

Ganancia antena tx	11
Campo minimo Servicio	42,39464
Campo minimo proteccion	30,37404
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	483,20	30,00	11	0	0	178,394	49,3894	0,00
0,1112	492,8	30,00	10,5	65,256741	83,33508	94,55897	-34,4457	0,11
0,2223	505,1	30,00	8,5	71,273434	93,93194	81,96211	-47,0425	0,22
0,3335	518,9	30,00	8	74,796562	100,137	75,25703	-53,7476	0,33
0,4446	540,8	30,00	2	77,294034	104,5357	64,85837	-64,1463	0,44
0,5558	569,9	30,00	-8	79,233016	107,9507	51,44335	-77,5613	0,56
0,667	598,1	30,00	-14	80,817161	110,7408	42,65329	-86,3514	0,67
0,7781	620	30,00	-14	82,155353	113,0976	40,29641	-88,7082	0,78
0,8893	659,3	30,00	-5	83,315611	115,1411	47,25291	-81,7517	0,89
1,0004	698,6	30,00	-3	84,338118	116,942	47,45203	-81,5526	1,00
1,1116	738,5	30,00	-1	85,253616	118,5544	47,83961	-81,165	1,11
1,2228	781,7	30,00	1	86,081753	120,013	48,38106	-80,6236	1,22
1,3339	819,7	30,00	0,5	86,83711	121,3433	46,5507	-82,4539	1,33
1,4451	848,9	30,00	0,5	87,532603	122,5683	45,32576	-83,6789	1,45
1,5562	878,4	30,00	0,5	88,175953	123,7014	44,19267	-84,812	1,56
1,6674	909,2	30,00	0,5	88,775441	124,7572	43,13683	-85,8678	1,67
1,7786	962	30,00	0	89,336211	125,7449	41,64917	-87,3555	1,78
1,8897	982,9	30,00	0,5	89,862502	126,6718	41,22225	-87,7824	1,89
2,0009	988,9	30,00	0,5	90,359152	127,5465	40,34752	-88,6571	2,00
2,112	991,6	30,00	1	90,828523	128,3732	40,02085	-88,9838	2,11
2,2232	998,8	30,00	1	91,274215	129,1582	39,23588	-89,7688	2,22
2,3344	991,8	30,00	-1	91,69815	129,9048	36,48922	-92,5154	2,33
2,4455	993,9	30,00	-1	92,101998	130,6161	35,77795	-93,2267	2,45
2,5567	1002,9	30,00	-3	92,48824	131,2964	33,09768	-95,907	2,56
2,6678	1018,7	30,00	-3	92,85771	131,9471	32,44696	-96,5577	2,67

2,779	1043,2	30,00	-3	93,212416	132,5718	31,82224	-97,1824	2,78
2,8902	1086,7	30,00	-1	93,553203	133,172	33,22203	-95,7826	2,89
3,0013	1127,7	30,00	-1	93,880833	133,7491	32,64499	-96,3597	3,00
3,1125	1167,7	30,00	-1	94,196832	134,3056	32,08844	-96,9162	3,11
3,2236	1205,4	30,00	-1	94,501468	134,8421	31,5519	-97,4527	3,22
3,3348	1242,3	30,00	1	94,796041	135,361	33,03309	-95,9716	3,33
3,446	1270,3	30,00	1	95,08095	135,8628	32,53129	-96,4734	3,45
3,5571	1296	30,00	1	95,356566	136,3482	32,04587	-96,9588	3,56
3,6683	1333,9	30,00	1	95,623942	136,8191	31,57495	-97,4297	3,67
3,7795	1369,4	30,00	1	95,883332	137,2759	31,1181	-97,8865	3,78
3,8906	1407,2	30,00	1	96,134976	137,7191	30,6749	-98,3297	3,89
4,0018	1446,5	30,00	1	96,379752	138,1503	30,24379	-98,7609	4,00
4,1129	1469,1	30,00	1	96,617608	138,5692	29,82487	-99,1798	4,11
4,2241	1449,8	30,00	1	96,849329	138,9773	29,41675	-99,5879	4,22
4,3353	1392	30,00	-1	97,075028	139,3748	27,01924	-101,985	4,34
4,4464	1365,3	30,00	-3	97,294815	139,7619	24,63214	-104,373	4,45
4,5576	1355,4	30,00	-3	97,509369	140,1398	24,25426	-104,75	4,56
4,6687	1359,4	30,00	-5	97,718564	140,5082	21,88581	-107,119	4,67
4,7799	1378,7	30,00	-5	97,923021	140,8683	21,52572	-107,479	4,78
4,8911	1408	30,00	-3	98,122776	141,2201	23,1739	-105,831	4,89
5,0022	1442,2	30,00	-3	98,317866	141,5637	22,8303	-106,174	5,00
5,1134	1466,9	30,00	-3	98,50884	141,9001	22,49395	-106,511	5,11
5,2245	1469	30,00	-3	98,695539	142,2289	22,16512	-106,84	5,22
5,3357	1489,8	30,00	-3	98,878473	142,5511	21,84293	-107,162	5,34
5,4469	1483,8	30,00	-5	99,057633	142,8667	19,52739	-109,477	5,45
5,558	1483,2	30,00	-5	99,233016	143,1755	19,2185	-109,786	5,56
5,6692	1490,9	30,00	-5	99,40508	143,4786	18,91545	-110,089	5,67
5,7803	1517,2	30,00	-5	99,573652	143,7755	18,61855	-110,386	5,78
5,8915	1339,7	30,00	-8	99,739162	144,067	15,32705	-113,678	5,89
6,0027	1305,2	30,00	-8	99,901578	144,353	15,041	-113,964	6,00
6,1138	1325,4	30,00	-8	100,06087	144,6336	14,76045	-114,244	6,11
6,225	1365,8	30,00	-8	100,21743	144,9093	14,4847	-114,52	6,23
6,3361	1399,3	30,00	-8	100,37109	145,18	14,21408	-114,791	6,34
6,4473	1329,7	30,00	-2	100,5222	145,4461	19,94793	-109,057	6,45
6,5585	1322,2	30,00	-2	100,67074	145,7077	19,68632	-109,318	6,56
6,6696	1321,6	30,00	-2	100,81664	145,9647	19,42935	-109,575	6,67
6,7808	1348,5	30,00	-2	100,96026	146,2177	19,17639	-109,828	6,78
6,8919	1359,8	30,00	-2	101,10142	146,4663	18,92778	-110,077	6,89
7,0031	1374,7	30,00	-2	101,24045	146,7111	18,68292	-110,322	7,00
7,1143	1400,4	30,00	-2	101,37729	146,9521	18,44191	-110,563	7,11
7,2254	1390,3	30,00	-2	101,51188	147,1892	18,20486	-110,8	7,23
7,3366	1352,5	30,00	-2	101,64454	147,4228	17,97121	-111,033	7,34
7,4477	1312,6	30,00	2	101,77509	147,6528	21,74129	-107,263	7,45
7,5589	1309,5	30,00	2	101,90382	147,8795	21,51457	-107,49	7,56
7,6701	1323,5	30,00	2	102,03067	148,1029	21,29116	-107,713	7,67
7,7812	1363	30,00	2	102,15558	148,3229	21,07116	-107,933	7,78
7,8924	1400,3	30,00	-2	102,27883	148,54	16,85408	-112,151	7,89
8,0035	1394,4	30,00	2	102,40024	148,7538	20,64024	-108,364	8,00

8,1147	1378,6	30,00	2	102,52009	148,9649	20,42915	-108,575	8,11
8,2259	1393,2	30,00	2	102,63831	149,1731	20,22094	-108,784	8,23
8,337	1431,2	30,00	2	102,75484	149,3783	20,01571	-108,989	8,34
8,4482	1468,5	30,00	-2	102,86993	149,581	15,81301	-113,192	8,45
8,5593	1495	30,00	-2	102,98341	149,7809	15,61314	-113,392	8,56
8,6705	1470	30,00	2	103,09553	149,9784	19,41568	-109,589	8,67
8,7817	1458,4	30,00	2	103,20622	150,1733	19,22073	-109,784	8,78
8,8928	1462,1	30,00	2	103,31542	150,3656	19,0284	-109,976	8,89
9,004	1515,5	30,00	2	103,42335	150,5558	18,83829	-110,166	9,00
9,1151	1566,7	30,00	-2	103,52987	150,7434	14,65069	-114,354	9,12
9,2263	1599,8	30,00	-2	103,6352	150,9289	14,46519	-114,539	9,23
9,3375	1591,1	30,00	-2	103,73926	151,1121	14,28191	-114,723	9,34
9,4486	1574,2	30,00	-2	103,84199	151,2931	14,10097	-114,904	9,45
9,5598	1544,6	30,00	2	103,94362	151,4721	17,92198	-111,083	9,56
9,6709	1502,8	30,00	2	104,04398	151,6488	17,74522	-111,259	9,67
9,7821	1458,2	30,00	2	104,14329	151,8237	17,57032	-111,434	9,78
9,8933	1408,9	30,00	5	104,24147	151,9966	20,3974	-108,607	9,89
10,0044	1361,9	30,00	5	104,33847	152,1675	20,22656	-108,778	10,00
10,1156	1331,3	30,00	5	104,43448	152,3366	20,05746	-108,947	10,12
10,2267	1299,3	30,00	8	104,52936	152,5037	22,89036	-106,114	10,23
10,3379	1264,6	30,00	8	104,62329	152,6691	22,72491	-106,28	10,34
10,4491	1200,8	30,00	8	104,71622	152,8328	22,56124	-106,443	10,45
10,5602	1129,6	30,00	8,5	104,80809	152,9946	22,89944	-106,105	10,56
10,6714	1077	30,00	8,5	104,89907	153,1549	22,73919	-106,265	10,67
10,7826	1038,2	30,00	8,5	104,98911	153,3134	22,58061	-106,424	10,78
10,8937	1007,6	30,00	8,5	105,07815	153,4703	22,42379	-106,581	10,89
11,0049	983	30,00	8,5	105,16637	153,6256	22,26843	-106,736	11,00
11,116	960,5	30,00	10	105,25362	153,7793	23,61476	-105,39	11,12
11,2272	940,1	30,00	10	105,34007	153,9316	23,46248	-105,542	11,23
11,3384	914,7	30,00	10	105,42568	154,0823	23,31171	-105,693	11,34
11,4495	904,3	30,00	10	105,51038	154,2315	23,16254	-105,842	11,45
11,5607	888,8	30,00	10	105,59433	154,3794	23,01468	-105,99	11,56
11,6718	871,3	30,00	10	105,6774	154,5257	22,86837	-106,136	11,67
11,783	881,9	30,00	10	105,75976	154,6707	22,72331	-106,281	11,78
11,8942	917,1	30,00	10	105,84135	154,8144	22,57962	-106,425	11,89
12,0053	932,1	30,00	10	105,92211	154,9567	22,43739	-106,567	12,01
12,1165	939,9	30,00	10	106,00219	155,0977	22,29634	-106,708	12,12
12,2276	947,8	30,00	10	106,08147	155,2373	22,15671	-106,848	12,23
12,3388	957,4	30,00	10	106,1601	155,3758	22,01821	-106,986	12,34
12,45	954,4	30,00	10	106,23803	155,5131	21,88096	-107,124	12,45
12,5611	948,5	30,00	10	106,3152	155,649	21,74505	-107,26	12,56
12,6723	949,2	30,00	10	106,39175	155,7838	21,61022	-107,394	12,67
12,7834	947,7	30,00	10	106,46757	155,9174	21,47669	-107,528	12,78
12,8946	957	30,00	10	106,5428	156,0499	21,34419	-107,66	12,89
13,0058	968,2	30,00	10	106,61739	156,1812	21,21283	-107,792	13,01
13,1169	988,8	30,00	10	106,69127	156,3113	21,0827	-107,922	13,12
13,2281	1000,7	30,00	10	106,76459	156,4405	20,95356	-108,051	13,23
13,3392	1003,9	30,00	10	106,83724	156,5684	20,82561	-108,179	13,34

13,4504	992,1	30,00	10	106,90935	156,6954	20,69861	-108,306	13,45
13,5616	979,8	30,00	10	106,98086	156,8214	20,57266	-108,432	13,56
13,6727	961,8	30,00	10	107,05173	156,9462	20,44784	-108,557	13,67
13,7839	943,7	30,00	10	107,12209	157,0701	20,32393	-108,681	13,78
13,895	936,1	30,00	10	107,19182	157,1929	20,20112	-108,804	13,90
14,0062	938,9	30,00	10	107,26105	157,3149	20,07918	-108,925	14,01
14,1174	942,1	30,00	10	107,32974	157,4358	19,9582	-109,046	14,12
14,2285	941,4	30,00	10	107,39783	157,5558	19,83828	-109,166	14,23
14,3397	931	30,00	10	107,46545	157,6749	19,71919	-109,285	14,34
14,4508	918,4	30,00	10	107,53248	157,7929	19,60112	-109,404	14,45
14,562	910,9	30,00	10	107,59907	157,9102	19,48385	-109,521	14,56
14,6732	916,1	30,00	10	107,66514	158,0266	19,36748	-109,637	14,67
14,7843	916	30,00	10	107,73066	158,142	19,25208	-109,753	14,78
14,8955	900,5	30,00	10	107,79575	158,2566	19,13745	-109,867	14,90
15,0066	878	30,00	10,5	107,86029	158,3703	19,52377	-109,481	15,01
15,1178	856,9	30,00	10,5	107,92442	158,4832	19,41083	-109,594	15,12
15,229	841	30,00	10,5	107,98807	158,5953	19,29872	-109,706	15,23
15,3401	817	30,00	10,5	108,05121	158,7065	19,18752	-109,817	15,34
15,4513	779,4	30,00	10,5	108,11395	158,817	19,07702	-109,928	15,45
15,5624	739,7	30,00	10,5	108,17618	158,9266	18,96742	-110,037	15,56
15,6736	729,6	30,00	10,5	108,23802	159,0355	18,8585	-110,146	15,67
15,7848	765,3	30,00	10,5	108,29943	159,1437	18,75035	-110,254	15,78
15,8959	805,4	30,00	10,5	108,36035	159,251	18,64305	-110,362	15,90
16,0071	807,1	30,00	10,5	108,4209	159,3576	18,53641	-110,468	16,01
16,1182	806,7	30,00	10,5	108,48098	159,4635	18,43059	-110,574	16,12
16,2294	795,5	30,00	10,5	108,54069	159,5686	18,32542	-110,679	16,23
16,3406	789,2	30,00	10,5	108,6	159,6731	18,22095	-110,784	16,34
16,4517	775,8	30,00	10,5	108,65886	159,7767	18,1173	-110,887	16,45
16,5629	743,9	30,00	10,5	108,71737	159,8798	18,01424	-110,99	16,56
16,674	697,3	30,00	10,5	108,77544	159,9821	17,91197	-111,093	16,67
16,7852	660,3	30,00	10,5	108,83318	160,0838	17,81029	-111,194	16,79
16,8964	631	30,00	11	108,89053	160,1848	18,20927	-110,795	16,90
17,0075	619,4	30,00	11	108,94745	160,285	18,10901	-110,896	17,01
17,1187	623,3	30,00	11	109,00406	160,3847	18,00931	-110,995	17,12
17,2298	626,5	30,00	11	109,06025	160,4837	17,91035	-111,094	17,23
17,341	606,2	30,00	11	109,11613	160,5821	17,81194	-111,193	17,34
17,4522	575,6	30,00	11	109,17165	160,6799	17,71415	-111,29	17,45
17,5633	533,8	30,00	11	109,22677	160,777	17,61707	-111,388	17,56
17,6745	495,3	30,00	11	109,28159	160,8735	17,52052	-111,484	17,67
17,7857	459,6	30,00	11	109,33606	160,9695	17,42458	-111,58	17,79
17,8968	445,9	30,00	11	109,39015	161,0647	17,32931	-111,675	17,90
18,008	453,8	30,00	11	109,44395	161,1595	17,23455	-111,77	18,01
18,1191	462,5	30,00	11	109,49738	161,2536	17,14046	-111,864	18,12
18,2303	454,2	30,00	11	109,55052	161,3472	17,04686	-111,958	18,23
18,3415	439,6	30,00	11	109,60334	161,4402	16,95383	-112,051	18,34
18,4526	443,9	30,00	11	109,6558	161,5326	16,86145	-112,143	18,45
18,5638	435,6	30,00	11	109,70798	161,6245	16,76954	-112,235	18,56
18,6749	426,4	30,00	11	109,75981	161,7158	16,67826	-112,326	18,67

18,7861	398,7	30,00	11	109,81138	161,8066	16,58743	-112,417	18,79
18,8973	364,7	30,00	11	109,86264	161,8969	16,49715	-112,507	18,90
19,0084	327,7	30,00	10,5	109,91356	161,9866	15,90747	-113,097	19,01
19,1196	284,1	30,00	10,5	109,96422	162,0758	15,81824	-113,186	19,12
19,2307	235,1	30,00	10,5	110,01455	162,1644	15,7296	-113,275	19,23
19,3419	192,4	30,00	10,5	110,06463	162,2526	15,6414	-113,363	19,34
19,4531	137,7	30,00	10,5	110,11442	162,3403	15,5537	-113,451	19,45
19,5642	83,5	30,00	10,5	110,16389	162,4275	15,46658	-113,538	19,56
19,6754	35,6	30,00	10,5	110,21312	162,5142	15,37987	-113,625	19,68
19,7865	21,3	30,00	10,5	110,26202	162,6003	15,29373	-113,711	19,79
19,8977	23,6	30,00	10,5	110,31107	162,686	15,208	-113,797	19,90
20,0089	30,8	30,00	10,5	110,35911	162,7713	15,12275	-113,882	20,01
20,12	39,1	30,00	10,5	110,4072	162,856	15,03804	-113,967	20,12
20,2312	29,4	30,00	10,5	110,45508	162,9403	14,95372	-114,051	20,23
20,3423	18,2	30,00	10,5	110,50265	163,0241	14,86994	-114,135	20,34
20,4535	15,8	30,00	10,5	110,55	163,1075	14,78654	-114,218	20,45
20,5647	5,3	30,00	10,5	110,59709	163,1904	14,7036	-114,301	20,56
20,6758	0,4	30,00	10,5	110,64389	163,2729	14,62117	-114,383	20,68
20,787	0	30,00	10,5	110,69048	163,3549	14,53912	-114,466	20,79
20,8981	0	30,00	10,5	110,73678	163,4365	14,45757	-114,547	20,90
21,0093	0	30,00	10,5	110,78288	163,5177	14,37639	-114,628	21,01
21,1205	0	30,00	10,5	110,82873	163,5984	14,29563	-114,709	21,12
21,2316	0	30,00	10,5	110,8743	163,6787	14,21537	-114,789	21,23
21,3428	0	30,00	10,5	110,91967	163,7586	14,13546	-114,869	21,34
21,4539	0	30,00	10,5	110,96477	163,838	14,05603	-114,949	21,45
21,5651	0	30,00	10,5	111,00967	163,9171	13,97694	-115,028	21,57
21,6763	0	30,00	10,5	111,05435	163,9958	13,89826	-115,106	21,68
21,7874	0	30,00	10,5	111,09875	164,074	13,82005	-115,185	21,79
21,8986	0	30,00	10,5	111,14297	164,1519	13,74217	-115,262	21,90
22,0097	0	30,00	10,5	111,18693	164,2293	13,66476	-115,34	22,01
22,1209	0	30,00	10,5	111,2307	164,3064	13,58766	-115,417	22,12
22,2321	0	30,00	10,5	111,27425	164,3831	13,51095	-115,494	22,23

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