

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
0,1447	2004,8	97,1	-7	67,5451272	83,120419	76,202238	-52,80352	0,1447
0,2894	1974,3	127,6	-1	73,56572711	91,497321	73,825335	-55,18042	0,2894
0,4341	1975,3	126,6	2,5	77,08755229	97,014047	71,80861	-57,19715	0,4341
0,5788	1980,3	121,6	3,5	79,58632702	101,1179	68,704753	-60,301	0,5788
0,7235	1966,7	135,2	4	81,52452728	103,5518	66,770852	-62,2349	0,7235
0,8682	1878,7	200	3	83,1081522	103,72007	65,602586	-63,40317	0,8682
1,0129	1805,4	161,11429	2,5	84,447088	107,01804	61,804615	-67,20114	1,0129
1,1576	1714,5	200	1	85,60692694	107,44677	59,875882	-69,12987	1,1576
1,3023	1669,7	200	1,5	86,62997738	108,97257	58,850092	-70,15566	1,3023
1,4471	1598,9	200	1	87,54572744	110,33833	56,98433	-72,02143	1,4471
1,5918	1552,1	200	1	88,37352658	111,57292	55,74974	-73,25602	1,5918
1,7365	1518,5	200	1	89,12925233	112,70002	54,622641	-74,38312	1,7365
1,8812	1497,3	200	1,5	89,82445597	113,73685	54,085806	-74,91995	1,8812
2,0259	1466,3	200	1,5	90,46811666	114,69681	53,125842	-75,87991	2,0259
2,1706	1434,2	200	1,5	91,06735255	115,59052	52,232134	-76,77362	2,1706
2,3153	1410,2	200	1,5	91,62790201	116,42653	51,396123	-77,60963	2,3153
2,46	1377,5	200	2,5	92,15445871	117,21185	51,61081	-77,39495	2,46
2,6047	1338	200	2,5	92,65091077	117,95226	50,870395	-78,13536	2,6047
2,7494	1292	200	2,5	93,12051514	118,65264	50,170021	-78,83574	2,7494
2,8941	1253,4	200	2,5	93,56602724	119,31708	49,505579	-79,50018	2,8941
3,0388	1191,2	200	1,5	93,98979893	119,9491	47,87356	-81,1322	3,0388
3,1835	1137,4	200	1,5	94,39385366	120,55171	47,270948	-81,73481	3,1835
3,3282	1053,1	200	1,5	94,7799449	121,12753	46,695127	-82,31063	3,3282
3,4729	999,1	200	1,5	95,14960214	121,67884	46,143815	-82,86194	3,4729
3,6176	984,1	200	1,5	95,50416747	122,20764	45,615012	-83,39074	3,6176
3,7623	972,7	200	1,5	95,84482502	122,71571	45,106951	-83,89881	3,7623

3,907	965,7	200	2,5	96,1726248	123,20459	45,618066	-83,38769	3,907
4,0517	958	200	2,5	96,4885022	123,67569	45,146963	-83,85879	4,0517
4,1964	951,4	200	3	96,79329414	124,13026	45,192392	-83,81336	4,1964
4,3412	942,2	200	3	97,08795246	124,56972	44,752935	-84,25282	4,3412
4,4859	932,1	200	3	97,37274833	124,99447	44,328187	-84,67757	4,4859
4,6306	923,6	200	3	97,64850192	125,40573	43,916924	-85,08883	4,6306
4,7753	916,8	200	3	97,91576978	125,80434	43,518318	-85,48744	4,7753
4,92	910,8	200	3	98,17505863	126,19105	43,131611	-85,87415	4,92
5,0647	901,9	200	3,5	98,42683109	126,56654	43,256114	-85,74964	5,0647
5,2094	900	200	3,5	98,67151069	126,93146	42,891196	-86,11456	5,2094
5,3541	897	200	3,5	98,90948614	127,28638	42,536277	-86,46948	5,3541
5,4988	886	200	3,5	99,14111505	127,63183	42,190822	-86,81493	5,4988
5,6435	884,1	200	3,5	99,36672716	127,96832	41,854342	-87,15142	5,6435
5,7882	883,4	200	3,5	99,58662715	128,29628	41,52638	-87,47938	5,7882
5,9329	882,7	200	3,5	99,80109714	128,61614	41,206517	-87,79924	5,9329
6,0776	875,9	200	4	100,0103988	128,9283	41,394361	-87,6114	6,0776
6,2223	867	200	4	100,2147755	129,23311	41,089551	-87,91621	6,2223
6,367	859	200	4	100,4144536	129,53091	40,791749	-88,21401	6,367
6,5117	853,1	200	4	100,6096443	129,82202	40,500639	-88,50512	6,5117
6,6564	852,9	200	4	100,8005448	130,10673	40,215928	-88,78983	6,6564
6,8011	850,1	200	4	100,9873398	130,38532	39,937339	-89,06842	6,8011
6,9458	848,6	200	4	101,1702021	130,65804	39,664616	-89,34114	6,9458
7,0906	853,1	200	4	101,3494163	130,92532	39,397334	-89,60842	7,0906
7,2353	864	200	4	101,5248874	131,18702	39,135634	-89,87012	7,2353
7,38	876,3	200	4,5	101,6968838	131,44354	39,379116	-89,62664	7,38
7,5247	884,7	200	4,5	101,8655404	131,69508	39,12758	-89,87818	7,5247
7,6694	898,7	200	4,5	102,0309844	131,94182	38,880835	-90,12492	7,6694
7,8141	896,4	200	4,5	102,1933359	132,18396	38,638701	-90,36706	7,8141
7,9588	903,1	200	4,5	102,3527084	132,42165	38,401011	-90,60475	7,9588
8,1035	929,5	200	5	102,5092093	132,65505	38,667604	-90,33815	8,1035
8,2482	923,6	200	5	102,6629402	132,88433	38,438328	-90,56743	8,2482
8,3929	895,9	200	5	102,8139975	133,10962	38,213039	-90,79272	8,3929
8,5376	927,3	200	5	102,9624726	133,33106	37,991601	-91,01416	8,5376
8,6823	952,5	200	5	103,1084523	133,54877	37,773885	-91,23187	8,6823
8,827	919,3	200	5	103,2520191	133,76289	37,559768	-91,44599	8,827
8,9717	917,5	200	5	103,3932514	133,97352	37,349132	-91,65662	8,9717
9,1164	946	200	5	103,532224	134,18079	37,141867	-91,86389	9,1164
9,2611	977,1	200	5	103,669008	134,38479	36,937865	-92,06789	9,2611
9,4058	985,9	200	5	103,8036714	134,58563	36,737027	-92,26873	9,4058
9,5505	976,8	200	5	103,9362788	134,7834	36,539254	-92,4665	9,5505
9,6952	957,6	200	5	104,066892	134,9782	36,344456	-92,6613	9,6952
9,8399	937	200	5	104,1955703	135,17011	36,152544	-92,85321	9,8399
9,9847	924,8	200	5	104,322457	135,35935	35,963303	-93,04245	9,9847
10,1294	915,9	200	5	104,447431	135,54574	35,776915	-93,22884	10,1294
10,2741	917,2	200	5	104,5706323	135,72949	35,593171	-93,41259	10,2741
10,4188	939,5	200	5	104,6921106	135,91066	35,411997	-93,59376	10,4188
10,5635	970,3	200	5	104,8119133	136,08933	35,233322	-93,77243	10,5635
10,7082	1006,8	200	5	104,9300861	136,26558	35,057078	-93,94868	10,7082

10,8529	987,3	200	5	105,0466726	136,43946	34,883199	-94,12256	10,8529
10,9976	952	200	5	105,161715	136,61103	34,711623	-94,29413	10,9976
11,1423	933,1	200	5	105,2752535	136,78037	34,54229	-94,46347	11,1423
11,287	956,9	200	5	105,3873271	136,94751	34,375142	-94,63061	11,287
11,4317	994,5	200	5	105,4979729	137,11253	34,210124	-94,79563	11,4317
11,5764	1029,4	200	5	105,6072271	137,27548	34,047181	-94,95858	11,5764
11,7211	1051,6	200	5	105,715124	137,43639	33,886262	-95,11949	11,7211
11,8658	1069,8	200	5	105,8216971	137,59534	33,727318	-95,27844	11,8658
12,0105	1083,8	200	5	105,9269783	137,75236	33,5703	-95,43546	12,0105
12,1552	1104,6	200	5	106,0309988	137,90749	33,415162	-95,59059	12,1552
12,2999	1125,7	200	5	106,1337882	138,0608	33,261861	-95,7439	12,2999
12,4446	1151,6	200	5	106,2353754	138,2123	33,110352	-95,8954	12,4446
12,5893	1176,1	200	5	106,3357882	138,36206	32,960596	-96,04516	12,5893
12,7341	1201,8	200	5	106,4351217	138,51021	32,812448	-96,19331	12,7341
12,8788	1219,1	200	5	106,5332646	138,65658	32,666077	-96,33968	12,8788
13,0235	1234,2	200	5	106,6303109	138,80132	32,521341	-96,48442	13,0235
13,1682	1253	200	5	106,7262849	138,94445	32,378204	-96,62755	13,1682
13,3129	1276,8	200	5	106,82121	139,08603	32,236631	-96,76913	13,3129
13,4576	1292,1	200	5	106,9151089	139,22607	32,096589	-96,90917	13,4576
13,6023	1333,2	200	5	107,0080036	139,36461	31,958045	-97,04771	13,6023
13,747	1317,8	200	5	107,0999152	139,50169	31,820967	-97,18479	13,747
13,8917	1300,2	200	5	107,1908645	139,63733	31,685324	-97,32043	13,8917
14,0364	1274,6	200	5	107,2808713	139,77157	31,551087	-97,45467	14,0364
14,1811	1234,4	200	5	107,369955	139,90443	31,418226	-97,58753	14,1811
14,3258	1210,3	200	5	107,4581342	140,03594	31,286714	-97,71904	14,3258
14,4705	1197,9	200	5	107,5454273	140,16613	31,156524	-97,84923	14,4705
14,6152	1174,5	200	5	107,6318518	140,29503	31,02763	-97,97813	14,6152
14,7599	1152,4	200	5	107,7174249	140,42265	30,900005	-98,10575	14,7599
14,9046	1142	200	5	107,8021631	140,54903	30,773625	-98,23213	14,9046
15,0493	1141,7	200	5	107,8860826	140,67419	30,648467	-98,35729	15,0493
15,194	1149,7	200	5	107,969199	140,79815	30,524506	-98,48125	15,194
15,3387	1150,9	200	5	108,0515276	140,92094	30,40172	-98,60404	15,3387
15,4834	1134,7	200	5	108,1330832	141,04257	30,280087	-98,72567	15,4834
15,6282	1127,2	200	5	108,2139358	141,16315	30,159502	-98,84625	15,6282
15,7729	1130,6	200	5	108,2939876	141,28254	30,040112	-98,96564	15,7729
15,9176	1126	200	5	108,3733083	141,40084	29,921812	-99,08394	15,9176
16,0623	1110,4	200	5	108,4519112	141,51807	29,804583	-99,20117	16,0623
16,207	1084,4	200	5	108,5298092	141,63425	29,688405	-99,31735	16,207
16,3517	1072,5	200	5	108,6070148	141,7494	29,573259	-99,4325	16,3517
16,4964	1047,5	200	5	108,6835401	141,86353	29,459129	-99,54663	16,4964
16,6411	1026,7	200	5	108,7593972	141,97666	29,345994	-99,65976	16,6411
16,7858	998,5	200	5	108,8345975	142,08882	29,23384	-99,77192	16,7858
16,9305	981,2	200	5	108,9091523	142,20001	29,122648	-99,88311	16,9305
17,0752	954,1	200	5	108,9830726	142,31025	29,012402	-99,99335	17,0752
17,2199	930,2	200	5	109,0563691	142,41957	28,903087	-100,1027	17,2199
17,3646	903,3	200	5	109,1290522	142,52797	28,794686	-100,2111	17,3646
17,5093	873,9	200	5	109,2011323	142,63547	28,687185	-100,3186	17,5093
17,654	831,7	200	5	109,272619	142,74209	28,580569	-100,4252	17,654

17,7987	835,1	200	5	109,3435222	142,84783	28,474823	-100,5309	17,7987
17,9434	881,4	200	5	109,4138513	142,95272	28,369933	-100,6358	17,9434
18,0881	926	200	5	109,4836156	143,05677	28,265886	-100,7399	18,0881
18,2328	954,4	200	5	109,5528239	143,15999	28,162668	-100,8431	18,2328
18,3776	973,5	200	5	109,6215325	143,26246	28,060195	-100,9456	18,3776
18,5223	970,9	200	5	109,6896549	143,36406	27,958596	-101,0472	18,5223
18,667	978,7	200	5	109,7572471	143,46487	27,857788	-101,148	18,667
18,8117	1018,2	200	5	109,8243175	143,5649	27,757759	-101,248	18,8117
18,9564	1060,1	200	5	109,8908739	143,66416	27,658496	-101,3473	18,9564
19,1011	1088,5	200	5	109,9569241	143,76267	27,559988	-101,4458	19,1011
19,2458	1115,2	200	5	110,0224759	143,86043	27,462223	-101,5435	19,2458
19,3905	1096,6	200	5	110,0875367	143,95747	27,36519	-101,6406	19,3905
19,5352	1062,5	200	5	110,1521138	144,05378	27,268879	-101,7369	19,5352
19,6799	1021,1	200	5	110,2162143	144,14938	27,173279	-101,8325	19,6799
19,8246	962,2	200	5	110,2798452	144,24428	27,078379	-101,9274	19,8246
19,9693	914	200	5	110,3430134	144,33849	26,984169	-102,0216	19,9693
20,114	864,2	200	5	110,4057255	144,43202	26,890639	-102,1151	20,114
20,2587	840,4	200	5	110,467988	144,52488	26,79778	-102,208	20,2587
20,4034	825	200	5	110,5298074	144,61707	26,705582	-102,3002	20,4034
20,5481	798,7	200	5	110,59119	144,70862	26,614035	-102,3917	20,5481
20,6928	778,1	200	5	110,6521418	144,79953	26,523131	-102,4826	20,6928
20,8375	773	200	5	110,7126688	144,8898	26,43286	-102,5729	20,8375
20,9822	824,6	200	5	110,772777	144,97944	26,343214	-102,6625	20,9822
21,1269	866,4	200	5	110,8324721	145,06847	26,254184	-102,7516	21,1269
21,2717	901,2	200	5	110,8918006	145,15696	26,165701	-102,8401	21,2717
21,4164	927,1	200	5	110,950686	145,24478	26,077879	-102,9279	21,4164
21,5611	943,1	200	5	111,0091748	145,33201	25,990647	-103,0151	21,5611
21,7058	977,5	200	5	111,0672725	145,41866	25,904	-103,1018	21,7058
21,8505	1019	200	5	111,1249842	145,50473	25,817928	-103,1878	21,8505
21,9952	1066,6	200	5	111,1823149	145,59023	25,732424	-103,2733	21,9952
22,1399	1111,3	200	5	111,2392697	145,67518	25,647481	-103,3583	22,1399
22,2846	1081,3	200	5	111,2958534	145,75957	25,563091	-103,4427	22,2846
22,4293	1006,5	200	5	111,352071	145,84341	25,479248	-103,5265	22,4293
22,574	921,5	200	5	111,407927	145,92671	25,395943	-103,6098	22,574
22,7187	855,6	200	5	111,4634261	146,00949	25,313171	-103,6926	22,7187
22,8634	796,1	200	5	111,5185729	146,09173	25,230925	-103,7748	22,8634
23,0081	740,3	200	5	111,5733717	146,17346	25,149197	-103,8566	23,0081
23,1528	693,6	200	5	111,627827	146,25467	25,067982	-103,9378	23,1528
23,2975	664,4	200	5	111,681943	146,33538	24,987273	-104,0185	23,2975
23,4422	632,5	200	5	111,7357239	146,41559	24,907063	-104,0987	23,4422
23,5869	606,5	200	5	111,7891739	146,49531	24,827347	-104,1784	23,5869
23,7316	587,8	200	5	111,842297	146,57454	24,748119	-104,2576	23,7316
23,8763	535,4	200	5	111,8950971	146,65328	24,669372	-104,3364	23,8763
24,0211	463,7	200	5	111,9476144	146,73161	24,591047	-104,4147	24,0211
24,1658	439,6	200	5	111,9997801	146,80941	24,513246	-104,4925	24,1658
24,3105	470,3	200	5	112,0516344	146,88675	24,43591	-104,5698	24,3105
24,4552	511,7	200	5	112,103181	146,96362	24,359033	-104,6467	24,4552
24,5999	526,6	200	5	112,1544234	147,04005	24,282609	-104,7231	24,5999

24,7446	555,2	200	5	112,2053653	147,11602	24,206634	-104,7991	24,7446
24,8893	583,9	200	5	112,2560102	147,19156	24,131101	-104,8747	24,8893
25,034	589,8	200	5	112,3063615	147,26665	24,056007	-104,9497	25,034
25,1787	594,6	200	5	112,3564226	147,34131	23,981345	-105,0244	25,1787
25,3234	609,8	200	5	112,4061969	147,41555	23,907111	-105,0986	25,3234
25,4681	633,6	200	5	112,4556875	147,48936	23,8333	-105,1725	25,4681
25,6128	663,1	200	5	112,5048977	147,56275	23,759907	-105,2458	25,6128
25,7575	701,5	200	5	112,5538307	147,63573	23,686928	-105,3188	25,7575
25,9022	721	200	5	112,6024896	147,7083	23,614358	-105,3914	25,9022
26,0469	684,2	200	5	112,6508774	147,78047	23,542191	-105,4636	26,0469
26,1916	642,9	200	5	112,6989972	147,85223	23,470425	-105,5353	26,1916
26,3363	630	200	5	112,7468518	147,9236	23,399054	-105,6067	26,3363
26,481	614,5	200	5	112,7944442	147,99458	23,328074	-105,6777	26,481
26,6257	599,7	200	5	112,8417773	148,06518	23,257481	-105,7483	26,6257
26,7704	580,4	200	5	112,8888538	148,13539	23,18727	-105,8185	26,7704
26,9152	535,6	200	5	112,9357088	148,20527	23,11739	-105,8884	26,9152
27,0599	515,5	200	5	112,9822803	148,27472	23,047933	-105,9578	27,0599
27,2046	492,6	200	5	113,0286035	148,34381	22,978846	-106,0269	27,2046
27,3493	459,4	200	5	113,0746809	148,41253	22,910126	-106,0956	27,3493
27,494	451,6	200	5	113,1205151	148,48089	22,841768	-106,164	27,494
27,6387	470,6	200	5	113,1661088	148,54889	22,773769	-106,232	27,6387
27,7834	480,1	200	5	113,2114644	148,61653	22,706125	-106,2996	27,7834
27,9281	494,2	200	5	113,2565844	148,68382	22,638832	-106,3669	27,9281
28,0728	490,6	200	5	113,3014712	148,75077	22,571888	-106,4339	28,0728
28,2175	475,3	200	5	113,3461272	148,81737	22,505287	-106,5005	28,2175
28,3622	476,3	200	5	113,3905549	148,88363	22,439027	-106,5667	28,3622
28,5069	467	200	5	113,4347564	148,94955	22,373104	-106,6327	28,5069
28,6516	474,3	200	5	113,4787342	149,01514	22,307515	-106,6982	28,6516
28,7963	450,5	200	5	113,5224904	149,0804	22,242257	-106,7635	28,7963
28,941	445	200	5	113,5660272	149,14533	22,177325	-106,8284	28,941

Perfil Topográfico Estación Avila-5 160°



