

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	2006,4	95,5	-7	67,5451272	83,180462	76,142194	-52,86356	0,1447
0,2894	1950,7	151,2	-3	73,56572711	90,738729	72,583927	-56,42183	0,2894
0,4341	1945,6	156,3	1	77,08755229	95,966429	71,356228	-57,64953	0,4341
0,5788	1911,8	190,1	1,5	79,58632702	98,737983	69,084673	-59,92108	0,5788
0,7235	1851,1	200	1	81,52452728	101,35823	65,964425	-63,04133	0,7235
0,8682	1771,3	200	0	83,1081522	103,72007	62,602586	-66,40317	0,8682
1,0128	1688,4	200	0	84,44623043	105,7157	60,606959	-68,3988	1,0128
1,1575	1616	200	-1	85,60617657	107,44566	57,877001	-71,12876	1,1575
1,3022	1546,5	200	-1	86,62931039	108,97157	56,351086	-72,65467	1,3022
1,4469	1478,9	200	-1	87,54452691	110,33654	54,986121	-74,01964	1,4469
1,5916	1418,2	200	-1	88,37243518	111,57129	53,751368	-75,25439	1,5916
1,7363	1351	200	-1	89,12825188	112,69852	52,624133	-76,38162	1,7363
1,881	1285,2	200	-1	89,82353248	113,73547	51,587183	-77,41857	1,881
2,0257	1262,2	200	-1	90,46725913	114,69554	50,627121	-78,37864	2,0257
2,1704	1224,7	200	0	91,06655219	115,58933	50,733328	-78,27243	2,1704
2,3151	1190,1	200	0	91,62715167	116,42541	49,897243	-79,10851	2,3151
2,4598	1168,2	200	0	92,15375252	117,21079	49,111863	-79,89389	2,4598
2,6045	1134,9	200	1	92,65024381	117,95127	49,37139	-79,63437	2,6045
2,7492	1087,5	200	1	93,11988328	118,65169	48,670964	-80,33479	2,7492
2,8938	1049,3	200	1	93,56512682	119,31573	48,006922	-80,99883	2,8938
3,0385	998,7	200	1	93,98894139	119,94782	47,374839	-81,63092	3,0385
3,1832	967,4	200	1	94,3930351	120,55049	46,772169	-82,23359	3,1832
3,3279	954,8	200	1	94,77916193	121,12636	46,196294	-82,80946	3,3279
3,4726	951,8	200	1,5	95,14885179	121,67772	46,144934	-82,86082	3,4726
3,6173	938,3	200	1,5	95,50344714	122,20657	45,616086	-83,38967	3,6173
3,762	926,7	200	1,5	95,8441324	122,71467	45,107984	-83,89777	3,762

3,9067	918,6	200	1,5	96,17195782	123,2036	44,619061	-84,3867	3,9067
4,0514	912,7	200	2,5	96,48785905	123,67473	45,147922	-83,85783	4,0514
4,1961	907,9	200	2,5	96,79267316	124,12934	44,693318	-84,31244	4,1961
4,3408	915	200	3	97,0871521	124,56853	44,754129	-84,25163	4,3408
4,4855	923,5	200	3	97,37197379	124,99331	44,329342	-84,67641	4,4855
4,6302	922,3	200	3	97,64775159	125,40461	43,918043	-85,08771	4,6302
4,7748	922	200	3	97,91486028	125,80298	43,519674	-85,48608	4,7748
4,9195	922,5	200	3,5	98,17417587	126,18973	43,632928	-85,37283	4,9195
5,0642	922,5	200	3,5	98,42597355	126,56526	43,257393	-85,74836	5,0642
5,2089	923,4	200	3,5	98,67067697	126,93022	42,89244	-86,11332	5,2089
5,3536	921,2	200	3,5	98,90867496	127,28517	42,537486	-86,46827	5,3536
5,4983	920,6	200	3,5	99,14032522	127,63066	42,192	-86,81376	5,4983
5,643	919,6	200	3,5	99,36595758	127,96717	41,855489	-87,15027	5,643
5,7877	914,3	200	3,5	99,58587681	128,29516	41,527499	-87,47826	5,7877
5,9324	908,1	200	4	99,8003651	128,61505	41,707608	-87,29815	5,9324
6,0771	908,1	200	4	100,0096842	128,92723	41,395427	-87,61033	6,0771
6,2218	905,6	200	4	100,2140775	129,23206	41,090592	-87,91516	6,2218
6,3665	902,4	200	4	100,4137714	129,52989	40,792766	-88,21299	6,3665
6,5112	899,5	200	4	100,6089773	129,82102	40,501634	-88,50412	6,5112
6,6558	890,5	200	4	100,7997618	130,10556	40,217095	-88,78866	6,6558
6,8005	886,7	200	4	100,9865735	130,38417	39,938482	-89,06727	6,8005
6,9452	887,2	200	4	101,1694517	130,65692	39,665735	-89,34002	6,9452
7,0899	886,6	200	4	101,3485588	130,92404	39,398613	-89,60714	7,0899
7,2346	889,4	200	4	101,5240471	131,18577	39,136887	-89,86887	7,2346
7,3793	892,4	200	4,5	101,6960599	131,44231	39,380345	-89,62541	7,3793
7,524	896,1	200	4,5	101,8647323	131,69387	39,128785	-89,87697	7,524
7,6687	894,3	200	4,5	102,0301915	131,94064	38,882017	-90,12374	7,6687
7,8134	897,9	200	4,5	102,1925577	132,18279	38,639862	-90,36589	7,8134
7,9581	899	200	4,5	102,3519444	132,42051	38,402151	-90,60361	7,9581
8,1028	911,2	200	5	102,508459	132,65393	38,668723	-90,33703	8,1028
8,2475	927,1	200	5	102,6622031	132,88323	38,439427	-90,56633	8,2475
8,3922	947,9	200	5	102,8132731	133,10854	38,214119	-90,79164	8,3922
8,5368	964,2	200	5	102,9616587	133,32984	37,992815	-91,01294	8,5368
8,6815	987,2	200	5	103,107652	133,54758	37,775079	-91,23068	8,6815
8,8262	987,8	200	5	103,2512319	133,76171	37,560942	-91,44481	8,8262
8,9709	997,5	200	5	103,3924769	133,97237	37,350287	-91,65547	8,9709
9,1156	986,6	200	5	103,5314618	134,17965	37,143004	-91,86275	9,1156
9,2603	991,1	200	5	103,6682577	134,38367	36,938984	-92,06677	9,2603
9,405	1011,8	200	5	103,8029326	134,58453	36,738129	-92,26763	9,405
9,5497	997,2	200	5	103,9355511	134,78232	36,54034	-92,46542	9,5497
9,6944	990,1	200	5	104,0661753	134,97713	36,345525	-92,66023	9,6944
9,8391	994,3	200	5	104,1948641	135,16906	36,153597	-92,85216	9,8391
9,9838	968	200	5	104,321674	135,35819	35,964471	-93,04129	9,9838
10,1285	987,7	200	5	104,4466592	135,54459	35,778066	-93,22769	10,1285
10,2732	1023,2	200	5	104,5698714	135,72835	35,594306	-93,41145	10,2732
10,4178	1013,4	200	5	104,6912769	135,90942	35,413241	-93,59252	10,4178
10,5625	965,6	200	5	104,811091	136,08811	35,234548	-93,77121	10,5625
10,7072	932,5	200	5	104,9292749	136,26437	35,058287	-93,94747	10,7072

10,8519	925,9	200	5	105,0458722	136,43826	34,884393	-94,12136	10,8519
10,9966	926,5	200	5	105,1609251	136,60986	34,712801	-94,29296	10,9966
11,1413	932,5	200	5	105,2744739	136,7792	34,543453	-94,4623	11,1413
11,286	937,7	200	5	105,3865575	136,94637	34,37629	-94,62947	11,286
11,4307	955,3	200	5	105,4972131	137,1114	34,211257	-94,7945	11,4307
11,5754	976,3	200	5	105,6064767	137,27436	34,0483	-94,95746	11,5754
11,7201	1012,7	200	5	105,7143829	137,43529	33,887367	-95,11839	11,7201
11,8648	1042	200	5	105,820965	137,59425	33,728409	-95,27735	11,8648
12,0095	1066,9	200	5	105,9262551	137,75128	33,571378	-95,43438	12,0095
12,1542	1103,4	200	5	106,0302841	137,90643	33,416228	-95,58953	12,1542
12,2988	1119,2	200	5	106,1330114	138,05964	33,26302	-95,74274	12,2988
12,4435	1127,1	200	5	106,2346076	138,21116	33,111498	-95,89426	12,4435
12,5882	1151,3	200	5	106,3350293	138,36093	32,961727	-96,04403	12,5882
12,7329	1170,1	200	5	106,4343031	138,50899	32,813669	-96,19209	12,7329
12,8776	1173	200	5	106,5324552	138,65537	32,667284	-96,33847	12,8776
13,0223	1180,9	200	5	106,6295105	138,80012	32,522534	-96,48322	13,0223
13,167	1198,9	200	5	106,7254933	138,94327	32,379384	-96,62637	13,167
13,3117	1231,6	200	5	106,820427	139,08486	32,237799	-96,76796	13,3117
13,4564	1247,4	200	5	106,9143343	139,22491	32,097745	-96,90801	13,4564
13,6011	1262,8	200	5	107,0072372	139,36347	31,959188	-97,04657	13,6011
13,7458	1274,6	200	5	107,099157	139,50056	31,822098	-97,18366	13,7458
13,8905	1297,5	200	5	107,1901141	139,63621	31,686443	-97,31931	13,8905
14,0352	1311,2	200	5	107,2801287	139,77046	31,552194	-97,45356	14,0352
14,1798	1320,3	200	5	107,3691587	139,90324	31,419414	-97,58634	14,1798
14,3245	1311,8	200	5	107,457346	140,03477	31,28789	-97,71787	14,3245
14,4692	1278	200	5	107,544647	140,16497	31,157688	-97,84807	14,4692
14,6139	1246,6	200	5	107,6310792	140,29387	31,028782	-97,97697	14,6139
14,7586	1223,6	200	5	107,7166598	140,42151	30,901146	-98,10461	14,7586
14,9033	1184,7	200	5	107,8014054	140,5479	30,774755	-98,231	14,9033
15,048	1170,8	200	5	107,8853322	140,67307	30,649586	-98,35617	15,048
15,1927	1132,9	200	5	107,9684558	140,79704	30,525614	-98,48014	15,1927
15,3374	1097,5	200	5	108,0507915	140,91984	30,402818	-98,60294	15,3374
15,4821	1071,5	200	5	108,1323539	141,04148	30,281175	-98,72458	15,4821
15,6268	1041,3	200	5	108,2131577	141,16199	30,160663	-98,84509	15,6268
15,7715	1011,6	200	5	108,2932166	141,28139	30,041262	-98,96449	15,7715
15,9162	991,2	200	5	108,3725443	141,39971	29,922952	-99,0828	15,9162
16,0608	978,2	200	5	108,4511001	141,51686	29,805793	-99,19996	16,0608
16,2055	982,3	200	5	108,5290053	141,63305	29,689604	-99,31615	16,2055
16,3502	996	200	5	108,606218	141,74821	29,574448	-99,43131	16,3502
16,4949	1005,2	200	5	108,6827503	141,86235	29,460307	-99,54545	16,4949
16,6396	1012,7	200	5	108,7586142	141,97549	29,347162	-99,65859	16,6396
16,7843	1031,2	200	5	108,8338212	142,08766	29,234997	-99,77076	16,7843
16,929	1060,1	200	5	108,9083827	142,19886	29,123796	-99,88196	16,929
17,0737	1094,3	200	5	108,9823095	142,30912	29,01354	-99,99222	17,0737
17,2184	1123,8	200	5	109,0556124	142,41844	28,904215	-100,1015	17,2184
17,3631	1143,2	200	5	109,1283019	142,52685	28,795805	-100,21	17,3631
17,5078	1146,1	200	5	109,2003881	142,63436	28,688295	-100,3175	17,5078
17,6525	1168,1	200	5	109,271881	142,74099	28,58167	-100,4241	17,6525

17,7972	1210,3	200	5	109,3427902	142,84674	28,475915	-100,5298	17,7972
17,9418	1258	200	5	109,4130768	142,95157	28,371088	-100,6347	17,9418
18,0865	1305,9	200	5	109,4828472	143,05562	28,267032	-100,7387	18,0865
18,2312	1337,9	200	5	109,5520617	143,15885	28,163805	-100,842	18,2312
18,3759	1346,8	200	5	109,6207289	143,26126	28,061393	-100,9444	18,3759
18,5206	1347,2	200	5	109,6888576	143,36287	27,959785	-101,046	18,5206
18,6653	1333,9	200	5	109,7564561	143,46369	27,858968	-101,1468	18,6653
18,81	1290,1	200	5	109,8235325	143,56373	27,75893	-101,2468	18,81
18,9547	1239,8	200	5	109,8900949	143,663	27,659658	-101,3461	18,9547
19,0994	1176,5	200	5	109,9561511	143,76152	27,56114	-101,4446	19,0994
19,2441	1154,9	200	5	110,0217087	143,85929	27,463367	-101,5424	19,2441
19,3888	1192,4	200	5	110,0867752	143,95633	27,366326	-101,6394	19,3888
19,5335	1225,9	200	5	110,1513579	144,05265	27,270007	-101,7358	19,5335
19,6782	1277,6	200	5	110,215464	144,14826	27,174398	-101,8314	19,6782
19,8228	1325,1	200	5	110,2790566	144,2431	27,079555	-101,9262	19,8228
19,9675	1353,5	200	5	110,3422304	144,33732	26,985337	-102,0204	19,9675
20,1122	1319,1	200	5	110,4049482	144,43086	26,891799	-102,114	20,1122
20,2569	1245,6	200	5	110,4672163	144,52373	26,798931	-102,2068	20,2569
20,4016	1186,4	200	5	110,5290411	144,61593	26,706725	-102,299	20,4016
20,5463	1162,7	200	5	110,5904291	144,70749	26,61517	-102,3906	20,5463
20,691	1183,9	200	5	110,6513862	144,7984	26,524258	-102,4815	20,691
20,8357	1192,7	200	5	110,7119185	144,88868	26,433979	-102,5718	20,8357
20,9804	1205,8	200	5	110,7720319	144,97833	26,344326	-102,6614	20,9804
21,1251	1226,7	200	5	110,831732	145,06737	26,255288	-102,7505	21,1251
21,2698	1237,6	200	5	110,8910247	145,1558	26,166858	-102,8389	21,2698
21,4145	1199,3	200	5	110,9499153	145,24363	26,079028	-102,9267	21,4145
21,5592	1160,7	200	5	111,0084094	145,33087	25,991789	-103,014	21,5592
21,7038	1136,6	200	5	111,0664721	145,41746	25,905194	-103,1006	21,7038
21,8485	1122,4	200	5	111,1241891	145,50354	25,819114	-103,1866	21,8485
21,9932	1077	200	5	111,181525	145,58905	25,733602	-103,2722	21,9932
22,1379	1070,4	200	5	111,238485	145,67401	25,648651	-103,3571	22,1379
22,2826	1101,8	200	5	111,2950739	145,7584	25,564254	-103,4415	22,2826
22,4273	1112,7	200	5	111,3512964	145,84225	25,480403	-103,5254	22,4273
22,572	1128,1	200	5	111,4071574	145,92557	25,397091	-103,6087	22,572
22,7167	1146,9	200	5	111,4626614	146,00834	25,314312	-103,6914	22,7167
22,8614	1133,1	200	5	111,517813	146,0906	25,232058	-103,7737	22,8614
23,0061	1117,9	200	5	111,5726166	146,17233	25,150323	-103,8554	23,0061
23,1508	1107,3	200	5	111,6270766	146,25356	25,069101	-103,9367	23,1508
23,2955	1116,9	200	5	111,6811973	146,33427	24,988385	-104,0174	23,2955
23,4402	1115,7	200	5	111,7349828	146,41449	24,908168	-104,0976	23,4402
23,5848	1116,4	200	5	111,7884005	146,49416	24,8285	-104,1773	23,5848
23,7295	1112,6	200	5	111,8415283	146,57339	24,749265	-104,2565	23,7295
23,8742	1134	200	5	111,8943331	146,65215	24,670511	-104,3352	23,8742
24,0189	1170,4	200	5	111,9468189	146,73042	24,592233	-104,4135	24,0189
24,1636	1226,7	200	5	111,9989893	146,80823	24,514426	-104,4913	24,1636
24,3083	1263,5	200	5	112,0508483	146,88557	24,437082	-104,5687	24,3083
24,453	1303	200	5	112,1023995	146,96246	24,360198	-104,6456	24,453
24,5977	1345	200	5	112,1536466	147,03889	24,283768	-104,722	24,5977

24,7424	1376,4	200	5	112,204593	147,11487	24,207786	-104,798	24,7424
24,8871	1397,7	200	5	112,2552424	147,19041	24,132246	-104,8735	24,8871
25,0318	1406,5	200	5	112,3055982	147,26551	24,057145	-104,9486	25,0318
25,1765	1413,1	200	5	112,3556637	147,34018	23,982477	-105,0233	25,1765
25,3212	1422,5	200	5	112,4054422	147,41442	23,908237	-105,0975	25,3212
25,4659	1427,3	200	5	112,4549372	147,48824	23,834419	-105,1713	25,4659
25,6105	1412,2	200	5	112,5041177	147,56159	23,761071	-105,2447	25,6105
25,7552	1376,1	200	5	112,5530551	147,63457	23,688085	-105,3177	25,7552
25,8999	1349,5	200	5	112,6017183	147,70715	23,615508	-105,3902	25,8999
26,0446	1331,2	200	5	112,6501104	147,77932	23,543335	-105,4624	26,0446
26,1893	1296,1	200	5	112,6982344	147,85109	23,471563	-105,5342	26,1893
26,334	1234,8	200	5	112,7460932	147,92247	23,400185	-105,6056	26,334
26,4787	1212,7	200	5	112,7936898	147,99346	23,329199	-105,6766	26,4787
26,6234	1201,4	200	5	112,8410269	148,06406	23,2586	-105,7472	26,6234
26,7681	1202,7	200	5	112,8881075	148,13427	23,188383	-105,8174	26,7681
26,9128	1216,3	200	5	112,9349343	148,20411	23,118545	-105,8872	26,9128
27,0575	1234,3	200	5	112,9815099	148,27357	23,049082	-105,9567	27,0575
27,2022	1268,7	200	5	113,0278372	148,34267	22,979989	-106,0258	27,2022
27,3469	1261,2	200	5	113,0739186	148,41139	22,911262	-106,0945	27,3469
27,4915	1228,2	200	5	113,1197253	148,47971	22,842946	-106,1628	27,4915
27,6362	1217,3	200	5	113,1653231	148,54772	22,774941	-106,2308	27,6362
27,7809	1224,4	200	5	113,2106828	148,61537	22,707291	-106,2985	27,7809
27,9256	1236,8	200	5	113,2558068	148,68266	22,639992	-106,3658	27,9256
28,0703	1224,9	200	5	113,3006977	148,74962	22,573041	-106,4327	28,0703
28,215	1210,8	200	5	113,3453577	148,81622	22,506435	-106,4993	28,215
28,3597	1191,1	200	5	113,3897892	148,88249	22,440169	-106,5656	28,3597
28,5044	1174	200	5	113,4339946	148,94842	22,37424	-106,6315	28,5044
28,6491	1183,8	200	5	113,4779762	149,01401	22,308646	-106,6971	28,6491
28,7938	1206,2	200	5	113,5217362	149,07928	22,243382	-106,7624	28,7938
28,9385	1199	200	5	113,5652769	149,14421	22,178444	-106,8273	28,9385

Perfil Topográfico Estación Avila-5 230°



