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
0,1457	1995	106,9	-9	67,60494761	82,86749	74,455167	-54,55059	0,1457
0,2914	1953,5	148,4	-3	73,62554752	90,914041	72,408616	-56,59714	0,2914
0,4371	1927,3	174,6	0	77,1473727	95,506407	70,816249	-58,18951	0,4371
0,5828	1901	200	1	79,64614743	98,556793	68,765864	-60,23989	0,5828
0,7285	1862,5	200	1,5	81,5843477	101,44745	66,375208	-62,63055	0,7285
0,8742	1813,4	200	1,5	83,16797262	103,80929	64,013369	-64,99239	0,8742
1,0199	1762,5	200	1,5	84,50690841	105,80619	62,016464	-66,98929	1,0199
1,1656	1731,2	200	1,5	85,66674735	107,53599	60,286665	-68,71909	1,1656
1,3112	1726,7	200	2,5	86,68913538	109,06079	59,761863	-69,24389	1,3112
1,4569	1716,4	200	3	87,60435144	110,42576	58,896898	-70,10886	1,4569
1,6026	1643,3	200	2,5	88,43225934	111,66051	57,162145	-71,84361	1,6026
1,7483	1581,7	200	1,5	89,18807572	112,78775	55,034911	-73,97085	1,7483
1,894	1526,7	200	1,5	89,88335607	113,8247	53,997961	-75,0078	1,894
2,0397	1471,5	200	1,5	90,52708249	114,78476	53,0379	-75,96786	2,0397
2,1854	1405,7	200	1,5	91,12637535	115,67855	52,144107	-76,86165	2,1854
2,3311	1345,2	200	1,5	91,68697466	116,51463	51,308022	-77,69773	2,3311
2,4768	1272,8	200	1	92,21357535	117,30001	50,022643	-78,98311	2,4768
2,6225	1200,4	200	1	92,71006651	118,04049	49,28217	-79,72359	2,6225
2,7682	1136,3	200	1	93,17970586	118,74091	48,581744	-80,42401	2,7682
2,9139	1071,8	200	1	93,62524944	119,4054	47,917254	-81,0885	2,9139
3,0596	1019,5	200	1	94,04904962	120,03746	47,285193	-81,72056	3,0596
3,2053	1000,9	200	1	94,45313024	120,64011	46,682542	-82,32321	3,2053
3,351	991,1	200	1,5	94,83924513	121,21597	46,606686	-82,39907	3,351
3,4967	974,1	200	1,5	95,20892404	121,76731	46,055342	-82,95041	3,4967
3,6424	949,7	200	1,5	95,56350932	122,29615	45,526509	-83,47925	3,6424
3,788	928,2	200	1,5	95,90395598	122,80389	45,018762	-83,98699	3,788

3,9337	915,3	200	1,5	96,23178129	123,29282	44,52984	-84,47592	3,9337
4,0794	908,1	200	2,5	96,5476824	123,76396	45,058701	-83,94706	4,0794
4,2251	903,5	200	2,5	96,85249642	124,21856	44,604097	-84,40166	4,2251
4,3708	898,4	200	3	97,14697526	124,65775	44,664908	-84,34085	4,3708
4,5165	894,8	200	3	97,43179686	125,08254	44,240121	-84,76564	4,5165
4,6622	891,3	200	3	97,70757457	125,49383	43,828823	-85,17693	4,6622
4,8079	888,3	200	3	97,9748651	125,89247	43,430182	-85,57557	4,8079
4,9536	880,8	200	3	98,23417527	126,27921	43,043444	-85,96231	4,9536
5,0993	871,3	200	3	98,48596783	126,65474	42,667917	-86,33784	5,0993
5,245	866,3	200	3,5	98,73066642	127,01969	42,802971	-86,20279	5,245
5,3907	863,9	200	3,5	98,96865984	127,37463	42,448024	-86,55773	5,3907
5,5364	862,3	200	3,5	99,20030577	127,72011	42,102544	-86,90321	5,5364
5,6821	863,1	200	3,5	99,42593403	128,05662	41,76604	-87,23972	5,6821
5,8278	885	200	3,5	99,64584936	128,3846	41,438055	-87,5677	5,8278
5,9735	902,7	200	4	99,86033393	128,70449	41,61817	-87,38759	5,9735
6,1192	916,2	200	4	100,0696495	129,01666	41,305994	-87,69976	6,1192
6,2648	923,8	200	4	100,2739008	129,32129	41,001371	-88,00439	6,2648
6,4105	929,9	200	4	100,4735947	129,61911	40,703545	-88,30221	6,4105
6,5562	934,6	200	4	100,6688004	129,91024	40,412413	-88,59334	6,5562
6,7019	951,6	200	4	100,8597154	130,19498	40,12768	-88,87808	6,7019
6,8476	974,5	200	4,5	101,0465242	130,47359	40,349071	-88,65669	6,8476
6,9933	1006,8	200	4,5	101,2293998	130,74633	40,076328	-88,92943	6,9933
7,139	1038,6	200	5	101,4085042	131,01345	40,309209	-88,69655	7,139
7,2847	1063,2	200	5	101,58399	131,27517	40,047488	-88,95827	7,2847
7,4304	1086,4	200	5	101,7560004	131,53171	39,790949	-89,21481	7,4304
7,5761	1103,4	200	5	101,9246705	131,78326	39,539392	-89,46636	7,5761
7,7218	1112,5	200	5	102,0901276	132,03003	39,292628	-89,71313	7,7218
7,8675	1106,5	200	5	102,2524916	132,27218	39,050476	-89,95528	7,8675
8,0132	1097,6	200	5	102,4118762	132,50989	38,812768	-90,19299	8,0132
8,1589	1087,7	200	5	102,5683888	132,74331	38,579343	-90,42641	8,1589
8,3046	1049,9	200	5	102,722131	132,97261	38,35005	-90,65571	8,3046
8,4503	1056,5	200	5	102,8731991	133,19791	38,124745	-90,88101	8,4503
8,596	1054,6	200	5	103,0216847	133,41937	37,903292	-91,10247	8,596
8,7416	1029,2	200	5	103,1675752	133,63695	37,685709	-91,32005	8,7416
8,8873	1014,2	200	5	103,3111534	133,85108	37,471574	-91,53418	8,8873
9,033	1018,6	200	5	103,4523968	134,06173	37,260922	-91,74483	9,033
9,1787	1034	200	5	103,5913801	134,26902	37,053641	-91,95212	9,1787
9,3244	1033,9	200	5	103,7281745	134,47303	36,849624	-92,15613	9,3244
9,4701	997,7	200	5	103,8628479	134,67389	36,64877	-92,35699	9,4701
9,6158	957	200	5	103,995465	134,87167	36,450983	-92,55477	9,6158
9,7615	931,8	200	5	104,1260877	135,06649	36,256171	-92,74959	9,7615
9,9072	932	200	5	104,2547752	135,25841	36,064245	-92,94151	9,9072
10,0529	926,5	200	5	104,3815838	135,44754	35,875121	-93,13064	10,0529
10,1986	922,3	200	5	104,5065677	135,63394	35,688718	-93,31704	10,1986
10,3443	928,8	200	5	104,6297787	135,8177	35,50496	-93,5008	10,3443
10,49	953,4	200	5	104,7512663	135,99889	35,323772	-93,68199	10,49
10,6357	979,5	200	5	104,8710781	136,17757	35,145083	-93,86067	10,6357
10,7814	984,1	200	5	104,9892598	136,35383	34,968825	-94,03693	10,7814

10,9271	974	200	5	105,1058549	136,52772	34,794934	-94,21082	10,9271
11,0728	981,2	200	5	105,2209057	136,69931	34,623345	-94,38241	11,0728
11,2184	1011,1	200	5	105,334375	136,86854	34,454116	-94,55164	11,2184
11,3641	1046,9	200	5	105,4464575	137,0357	34,286955	-94,7188	11,3641
11,5098	1090,6	200	5	105,5571121	137,20073	34,121923	-94,88383	11,5098
11,6555	1100,7	200	5	105,6663747	137,36369	33,958967	-95,04679	11,6555
11,8012	1069,5	200	5	105,77428	137,52462	33,798036	-95,20772	11,8012
11,9469	1043,2	200	5	105,8808611	137,68358	33,63908	-95,36668	11,9469
12,0926	1057,8	200	5	105,9861503	137,84061	33,48205	-95,52371	12,0926
12,2383	1096,4	200	5	106,0901785	137,99576	33,326901	-95,67886	12,2383
12,384	1135,7	200	5	106,1929754	138,14907	33,173588	-95,83217	12,384
12,5297	1171,8	200	5	106,29457	138,30059	33,022069	-95,98369	12,5297
12,6754	1212,5	200	5	106,39499	138,45036	32,872301	-96,13346	12,6754
12,8211	1237,7	200	5	106,4942623	138,59841	32,724245	-96,28151	12,8211
12,9668	1256,9	200	5	106,5924128	138,74479	32,577862	-96,42789	12,9668
13,1125	1252,1	200	5	106,6894666	138,88954	32,433115	-96,57264	13,1125
13,2582	1254,1	200	5	106,7854479	139,03269	32,289967	-96,71579	13,2582
13,4039	1291,7	200	5	106,8803802	139,17427	32,148384	-96,85737	13,4039
13,5495	1321,7	200	5	106,974222	139,31423	32,008427	-96,99733	13,5495
13,6952	1293,5	200	5	107,0671242	139,45278	31,869872	-97,13588	13,6952
13,8409	1262,7	200	5	107,1590432	139,58987	31,732783	-97,27297	13,8409
13,9866	1229,8	200	5	107,2499997	139,72553	31,597129	-97,40863	13,9866
14,1323	1210,3	200	5	107,3400135	139,85978	31,462881	-97,54288	14,1323
14,278	1208,3	200	5	107,4291041	139,99265	31,33001	-97,67575	14,278
14,4237	1229,4	200	5	107,5172902	140,12417	31,198489	-97,80727	14,4237
14,5694	1240,4	200	5	107,6045899	140,25437	31,068289	-97,93747	14,5694
14,7151	1268,9	200	5	107,6910209	140,38327	30,939384	-98,06637	14,7151
14,8608	1307,6	200	5	107,7766004	140,51091	30,81175	-98,19401	14,8608
15,0065	1331,7	200	5	107,8613448	140,6373	30,685361	-98,3204	15,0065
15,1522	1325,7	200	5	107,9452705	140,76246	30,560193	-98,44556	15,1522
15,2979	1296,3	200	5	108,0283929	140,88643	30,436223	-98,56953	15,2979
15,4436	1256,2	200	5	108,1107275	141,00923	30,313429	-98,69233	15,4436
15,5893	1219,9	200	5	108,1922889	141,13087	30,191787	-98,81397	15,5893
15,735	1163,2	200	5	108,2730915	141,25138	30,071277	-98,93448	15,735
15,8807	1123,2	200	5	108,3531494	141,37078	29,951877	-99,05388	15,8807
16,0263	1096,7	200	5	108,4324219	141,48901	29,833649	-99,17211	16,0263
16,172	1074,2	200	5	108,5110312	141,60625	29,716411	-99,28935	16,172
16,3177	1089	200	5	108,5889355	141,72243	29,600223	-99,40553	16,3177
16,4634	1100,3	200	5	108,6661472	141,83759	29,485069	-99,52069	16,4634
16,6091	1119,7	200	5	108,7426786	141,95173	29,370929	-99,63483	16,6091
16,7548	1122,2	200	5	108,8185415	142,06487	29,257786	-99,74797	16,7548
16,9005	1091	200	5	108,8937476	142,17703	29,145622	-99,86013	16,9005
17,0462	1119,9	200	5	108,9683082	142,28823	29,034422	-99,97133	17,0462
17,1919	1156,3	200	5	109,0422341	142,39849	28,924168	-100,0816	17,1919
17,3376	1170,1	200	5	109,1155362	142,50781	28,814844	-100,1909	17,3376
17,4833	1168,4	200	5	109,1882248	142,61622	28,706435	-100,2993	17,4833
17,629	1175,8	200	5	109,2603101	142,72373	28,598926	-100,4068	17,629
17,7747	1210,4	200	5	109,3318022	142,83035	28,492302	-100,5135	17,7747

17,9204	1261,4	200	5	109,4027106	142,93611	28,386549	-100,6192	17,9204
18,0661	1297,6	200	5	109,4730448	143,04101	28,281651	-100,7241	18,0661
18,2118	1310	200	5	109,542814	143,14506	28,177597	-100,8282	18,2118
18,3575	1295,4	200	5	109,6120273	143,24829	28,074371	-100,9314	18,3575
18,5031	1253,3	200	5	109,6806465	143,35063	27,972031	-101,0337	18,5031
18,6488	1231,5	200	5	109,7487744	143,45223	27,870425	-101,1353	18,6488
18,7945	1196,7	200	5	109,8163721	143,55305	27,769609	-101,2361	18,7945
18,9402	1163,7	200	5	109,8834478	143,65309	27,669571	-101,3362	18,9402
19,0859	1142,1	200	5	109,9500095	143,75236	27,5703	-101,4355	19,0859
19,2316	1090,2	200	5	110,0160649	143,85087	27,471784	-101,534	19,2316
19,3773	1072,3	200	5	110,0816218	143,94864	27,374012	-101,6317	19,3773
19,523	1126,3	200	5	110,1466877	144,04568	27,276972	-101,7288	19,523
19,6687	1125,6	200	5	110,2112697	144,142	27,180653	-101,8251	19,6687
19,8144	1114,7	200	5	110,2753751	144,23761	27,085046	-101,9207	19,8144
19,9601	1161,1	200	5	110,3390108	144,33252	26,990139	-102,0156	19,9601
20,1058	1188,9	200	5	110,4021837	144,42673	26,895922	-102,1098	20,1058
20,2515	1191,3	200	5	110,4649005	144,52027	26,802385	-102,2034	20,2515
20,3972	1170,8	200	5	110,5271677	144,61314	26,709519	-102,2962	20,3972
20,5429	1166,9	200	5	110,5889916	144,70534	26,617314	-102,3884	20,5429
20,6886	1209,1	200	5	110,6503786	144,7969	26,525761	-102,48	20,6886
20,8343	1255	200	5	110,7113348	144,88781	26,43485	-102,5709	20,8343
20,9799	1282,8	200	5	110,7718248	144,97802	26,344634	-102,6611	20,9799
21,1256	1262,2	200	5	110,8319376	145,06768	26,254981	-102,7508	21,1256
21,2713	1209,4	200	5	110,8916372	145,15671	26,165945	-102,8398	21,2713
21,417	1140,1	200	5	110,9509293	145,24514	26,077516	-102,9282	21,417
21,5627	1073	200	5	111,0098194	145,33297	25,989686	-103,0161	21,5627
21,7084	1035	200	5	111,0683129	145,42021	25,902448	-103,1033	21,7084
21,8541	1050,5	200	5	111,1264151	145,50686	25,815794	-103,19	21,8541
21,9998	1068,1	200	5	111,1841312	145,59294	25,729715	-103,276	21,9998
22,1455	1100,2	200	5	111,2414664	145,67845	25,644205	-103,3616	22,1455
22,2912	1125,4	200	5	111,2984255	145,7634	25,559255	-103,4465	22,2912
22,4369	1158	200	5	111,3550136	145,8478	25,474859	-103,5309	22,4369
22,5826	1209,8	200	5	111,4112354	145,93165	25,391009	-103,6147	22,5826
22,7283	1267,2	200	5	111,4670956	146,01496	25,307699	-103,6981	22,7283
22,874	1307,7	200	5	111,5225989	146,09774	25,22492	-103,7808	22,874
23,0197	1274	200	5	111,5777498	146,17999	25,142668	-103,8631	23,0197
23,1654	1218,8	200	5	111,6325526	146,26172	25,060934	-103,9448	23,1654
23,3111	1198,9	200	5	111,6870119	146,34294	24,979713	-104,026	23,3111
23,4567	1199,3	200	5	111,7410948	146,4236	24,899053	-104,1067	23,4567
23,6024	1194,5	200	5	111,7948799	146,50382	24,818837	-104,1869	23,6024
23,7481	1167,5	200	5	111,848334	146,58354	24,739115	-104,2666	23,7481
23,8938	1125,7	200	5	111,9014611	146,66278	24,659881	-104,3459	23,8938
24,0395	1121,8	200	5	111,9542652	146,74153	24,581128	-104,4246	24,0395
24,1852	1126,1	200	5	112,0067502	146,81981	24,502851	-104,5029	24,1852
24,3309	1133,4	200	5	112,05892	146,89761	24,425044	-104,5807	24,3309
24,4766	1112,4	200	5	112,1107784	146,97495	24,347702	-104,6581	24,4766
24,6223	1031,1	200	5	112,1623289	147,05184	24,270819	-104,7349	24,6223
24,768	956,2	200	5	112,2135754	147,12827	24,194389	-104,8114	24,768

24,9137	895,9	200	5	112,2645212	147,20425	24,118408	-104,8873	24,9137
25,0594	892,2	200	5	112,3151699	147,27979	24,04287	-104,9629	25,0594
25,2051	910,9	200	5	112,3655251	147,35489	23,96777	-105,038	25,2051
25,3508	943,6	200	5	112,41559	147,42955	23,893102	-105,1127	25,3508
25,4965	956,3	200	5	112,4653679	147,50379	23,818863	-105,1869	25,4965
25,6422	923,3	200	5	112,5148622	147,57761	23,745046	-105,2607	25,6422
25,7879	866,6	200	5	112,5640761	147,65101	23,671648	-105,3341	25,7879
25,9335	810,6	200	5	112,6129792	147,72394	23,598713	-105,407	25,9335
26,0792	760,7	200	5	112,6616419	147,79652	23,526137	-105,4796	26,0792
26,2249	744,2	200	5	112,7100334	147,86869	23,453965	-105,5518	26,2249
26,3706	775,4	200	5	112,7581568	147,94046	23,382194	-105,6236	26,3706
26,5163	826,5	200	5	112,8060151	148,01184	23,310817	-105,6949	26,5163
26,662	883,3	200	5	112,8536111	148,08282	23,239832	-105,7659	26,662
26,8077	888,4	200	5	112,9009477	148,15342	23,169233	-105,8365	26,8077
26,9534	822,9	200	5	112,9480277	148,22364	23,099018	-105,9067	26,9534
27,0991	749,8	200	5	112,9948539	148,29348	23,029181	-105,9766	27,0991
27,2448	700,3	200	5	113,0414291	148,36294	22,959718	-106,046	27,2448
27,3905	662,1	200	5	113,0877558	148,43203	22,890626	-106,1151	27,3905
27,5362	658,5	200	5	113,1338367	148,50076	22,8219	-106,1839	27,5362
27,6819	694,1	200	5	113,1796745	148,56912	22,753537	-106,2522	27,6819
27,8276	713,1	200	5	113,2252716	148,63712	22,685533	-106,3202	27,8276
27,9733	720,4	200	5	113,2706306	148,70477	22,617884	-106,3879	27,9733
28,119	706	200	5	113,315754	148,77207	22,550586	-106,4552	28,119
28,2647	660,5	200	5	113,3606442	148,83902	22,483636	-106,5221	28,2647
28,4103	599,7	200	5	113,405273	148,90558	22,417076	-106,5887	28,4103
28,556	566,8	200	5	113,449704	148,97185	22,350811	-106,6549	28,556
28,7017	587,9	200	5	113,493909	149,03777	22,284883	-106,7209	28,7017
28,8474	560	200	5	113,5378901	149,10337	22,219289	-106,7865	28,8474
28,9931	528	200	5	113,5816496	149,16863	22,154026	-106,8517	28,9931
29,1388	535,1	200	5	113,6251898	149,23357	22,08909	-106,9167	29,1388

Perfil Topográfico Estación Avila-5 190°