

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
0,1464	2057,3	44,6	1,5	67,64657811	86,104936	81,717721	-47,28804	0,1464
0,2928	2071,3	30,6	5	73,66717802	98,058591	73,264066	-55,74169	0,2928
0,4393	1997,5	104,4	3,5	77,19098064	98,136293	71,686364	-57,31939	0,4393
0,5857	1985,2	116,7	4	79,68926105	101,49839	68,824271	-60,18149	0,5857
0,7321	1950,4	151,5	3,5	81,62716471	103,07124	66,751413	-62,25434	0,7321
0,8785	1925,4	176,5	4	83,21059189	104,60307	65,719587	-63,28617	0,8785
1,0249	1920,7	115,07143	4	84,54938644	109,204	61,118652	-67,8871	1,0249
1,1713	1901,4	137,34286	4	85,70911944	109,92835	60,394302	-68,61145	1,1713
1,3178	1986,3	134,625	5	86,73274664	111,6365	59,686156	-69,3196	1,3178
1,4642	2063,6	123,92222	5	87,64776462	113,5889	57,733753	-71,272	1,4642
1,6106	2137	108,02	5	88,47551047	115,78493	55,53773	-73,46803	1,6106
1,757	2191,4	90,063636	5	89,2311918	118,19591	53,12675	-75,87901	1,757
1,9034	2246,1	74,172727	5	89,92635787	120,63102	50,691634	-78,31412	1,9034
2,0498	2314,6	50,266667	5	90,56998635	124,3618	46,960853	-82,0449	2,0498
2,1963	2371	30	5	91,1695898	128,97339	42,349263	-86,65649	2,1963
2,3427	2415,6	30	5	91,73009012	129,96057	41,362086	-87,64367	2,3427
2,4891	2424,3	30	5	92,25660347	130,88789	40,434768	-88,57099	2,4891
2,6355	2400,6	30	5	92,75301698	131,76219	39,560464	-89,44529	2,6355
2,7819	2353,4	30	5	93,22258686	132,58922	38,733437	-90,27232	2,7819
2,9283	2082,4	30	5	93,66806792	133,37382	37,948837	-91,05692	2,9283
3,0748	1876,2	30	5	94,09209402	134,12063	37,202024	-91,80373	3,0748
3,2212	1845,1	30	5	94,49611038	134,8322	36,490453	-92,5153	3,2212
3,3676	1830	30	5	94,88216659	135,51214	35,810514	-93,19524	3,3676
3,514	1812,3	30	5	95,25179172	136,16314	35,159515	-93,84624	3,514
3,6604	1831,4	30	5	95,60632751	136,78757	34,535091	-94,47067	3,6604
3,8068	1881,2	30	5	95,94695779	137,3875	33,935158	-95,0706	3,8068

3,9533	1974,2	30	5	96,27495202	137,96518	33,357481	-95,64828	3,9533
4,0997	2071,7	30	5	96,59079813	138,52146	32,801199	-96,20456	4,0997
4,2461	2133,5	30	5	96,89556093	139,05822	32,264438	-96,74132	4,2461
4,3925	2156,3	30	5	97,18999198	139,57678	31,745873	-97,25988	4,3925
4,5389	2169,2	30	5	97,47476886	140,07834	31,244312	-97,76144	4,5389
4,6853	2196,7	30	5	97,75050465	140,56398	30,758674	-98,24708	4,6853
4,8318	2231,3	30	5	98,01793556	141,03499	30,287664	-98,71809	4,8318
4,9782	2268,8	30	5	98,27720338	141,49163	29,83103	-99,17473	4,9782
5,1246	2278,9	30	5	98,52895602	141,93502	29,387633	-99,61812	5,1246
5,271	2281,4	30	5	98,7736169	142,36593	28,956725	-100,049	5,271
5,4174	2296,9	30	5	99,01157464	142,78503	28,537624	-100,4681	5,4174
5,5638	2295,8	30	5	99,24318678	143,19296	28,129699	-100,8761	5,5638
5,7103	2271,1	30	5	99,46893508	143,59056	27,732101	-101,2737	5,7103
5,8567	2231,6	30	5	99,68881614	143,97782	27,344837	-101,6609	5,8567
6,0031	2233,3	30	5	99,90326813	144,35552	26,967135	-102,0386	6,0031
6,1495	2260,4	30	5	100,1125527	144,72412	26,598534	-102,4072	6,1495
6,2959	2278,4	30	5	100,316913	145,08405	26,238606	-102,7672	6,2959
6,4423	2270,5	30	5	100,5165755	145,4357	25,886952	-103,1188	6,4423
6,5888	2252	30	5	100,7118831	145,77969	25,542968	-103,4628	6,5888
6,7352	2240	30	5	100,9027665	146,11588	25,206776	-103,799	6,7352
6,8816	2276,4	30	5	101,0895451	146,44484	24,877814	-104,1279	6,8816
7,028	2302,2	30	5	101,2723916	146,76688	24,555776	-104,45	7,028
7,1744	2277,9	30	5	101,4514683	147,08228	24,240379	-104,7654	7,1744
7,3208	2209,9	30	5	101,6269274	147,3913	23,931353	-105,0744	7,3208
7,4673	2150	30	5	101,7990286	147,69442	23,628241	-105,3775	7,4673
7,6137	2095,8	30	5	101,9676718	147,99144	23,331219	-105,6745	7,6137
7,7601	2029,5	30	5	102,1331029	148,2828	23,039855	-105,9659	7,7601
7,9065	1968,7	30	5	102,2954421	148,56872	22,753936	-106,2518	7,9065
8,0529	1926,2	30	5	102,4548027	148,84939	22,473263	-106,5325	8,0529
8,1993	1883,7	30	5	102,6112921	149,12501	22,197648	-106,8081	8,1993
8,3458	1840,7	30	5	102,765116	149,39593	21,926726	-107,079	8,3458
8,4922	1821,8	30	5	102,9161608	149,66196	21,6607	-107,3451	8,4922
8,6386	1846,5	30	5	103,0646239	149,92344	21,39922	-107,6065	8,6386
8,785	1829,8	30	5	103,2105919	150,18052	21,142135	-107,8636	8,785
8,9314	1805,2	30	5	103,3541474	150,43336	20,889299	-108,1165	8,9314
9,0778	1816,8	30	5	103,4953688	150,68208	20,640574	-108,3652	9,0778
9,2243	1827,8	30	5	103,634425	150,92699	20,395662	-108,6101	9,2243
9,3707	1839,1	30	5	103,7711973	151,16788	20,154773	-108,851	9,3707
9,5171	1889,5	32,593478	5	103,9058492	150,6766	20,646061	-108,3597	9,5171
9,6635	1946,9	35,197872	5	104,0384456	150,23175	21,090906	-107,9149	9,6635
9,8099	2023,1	36,10625	5	104,1690482	150,234	21,088661	-107,9171	9,8099
9,9563	2102,2	35,363265	5	104,2977161	150,64105	20,681607	-108,3241	9,9563
10,1028	2173,6	33,222	5	104,4245917	151,4149	19,907759	-109,098	10,1028
10,2492	2230,5	30,04902	5	104,5495559	152,52427	18,798387	-110,2074	10,2492
10,3956	2282,5	30	5	104,6727478	152,75573	18,566924	-110,4388	10,3956
10,542	2359,5	30	5	104,7942168	152,96967	18,352987	-110,6528	10,542
10,6884	2369,2	30	5	104,9140105	153,18066	18,142001	-110,8638	10,6884
10,8348	2327,5	30	5	105,0321746	153,38877	17,933886	-111,0719	10,8348

10,9813	2279,9	30	5	105,1488317	153,59423	17,728424	-111,2773	10,9813
11,1277	2240,4	30	5	105,2638647	153,79683	17,525823	-111,4799	11,1277
11,2741	2216,5	30	5	105,3773942	153,99679	17,32587	-111,6799	11,2741
11,4205	2216,2	30	5	105,4894589	154,19416	17,128497	-111,8773	11,4205
11,5669	2186,6	30	5	105,6000962	154,38902	16,933638	-112,0721	11,5669
11,7133	2130,2	30	5	105,7093419	154,58143	16,74123	-112,2645	11,7133
11,8598	2067,7	30	5	105,8173039	154,77157	16,551083	-112,4547	11,8598
12,0062	2007,3	30	5	105,9238868	154,95926	16,363397	-112,6424	12,0062
12,1526	1951,3	30	5	106,0291406	155,14467	16,177987	-112,8278	12,1526
12,299	1893,5	30	5	106,1331526	155,32786	15,994796	-113,011	12,299
12,4454	1863,6	30	5	106,2359338	155,50888	15,813774	-113,192	12,4454
12,5918	1835,1	30	5	106,3375129	155,68779	15,634868	-113,3709	12,5918
12,7383	1791,8	30	5	106,437986	155,86475	15,457911	-113,5478	12,7383
12,8847	1733,7	30	5	106,5372428	156,03956	15,283095	-113,7227	12,8847
13,0311	1666,5	30	5	106,6353781	156,2124	15,110255	-113,8955	13,0311
13,1775	1603,9	35,88169	5	106,7324171	154,73848	16,584175	-112,4216	13,1775
13,3239	1515,1	43,533333	5	106,8283839	153,12649	18,19617	-110,8096	13,3239
13,4703	1421	52,264384	5	106,9233019	151,60431	19,718344	-109,2874	13,4703
13,6168	1327,4	62,024324	5	107,0172577	150,18244	21,140219	-107,8655	13,6168
13,7632	1249	72,569333	5	107,110145	148,88543	22,437229	-106,5685	13,7632
13,9096	1210,1	83,348684	5	107,2020494	147,75412	23,568536	-105,4372	13,9096
14,056	1150,6	94,620779	5	107,2929915	146,72558	24,597072	-104,4087	14,056
14,2024	1190,2	105,09615	5	107,3829914	145,89501	25,42765	-103,5781	14,2024
14,3488	1289	114,0557	5	107,4720682	145,27576	26,046892	-102,9589	14,3488
14,4953	1325,3	122,3375	5	107,5603007	144,76214	26,560517	-102,4452	14,4953
14,6417	1588,3	127,1679	5	107,6475867	144,5376	26,785057	-102,2207	14,6417
14,7881	1618	131,51829	5	107,7340041	144,35821	26,964444	-102,0413	14,7881
14,9345	1631,2	135,60482	5	107,8195703	144,20507	27,117587	-101,8882	14,9345
15,0809	1631,8	135,60482	5	107,9043018	144,33612	26,986534	-102,0192	15,0809
15,2273	1604,4	135,60482	5	107,9882147	144,46591	26,856748	-102,149	15,2273
15,3738	1556,2	135,60482	5	108,0713811	144,59454	26,728116	-102,2776	15,3738
15,5202	1558,4	135,60482	5	108,1537028	144,72187	26,600791	-102,405	15,5202
15,6666	1561,2	135,60482	5	108,2352517	144,848	26,474661	-102,5311	15,6666
15,813	1537,7	135,60482	5	108,316042	144,97295	26,349704	-102,6561	15,813
15,9594	1519,3	135,60482	5	108,3960878	145,09676	26,225899	-102,7799	15,9594
16,1058	1541	135,60482	5	108,4754026	145,21943	26,103224	-102,9025	16,1058
16,2523	1564,5	135,60482	5	108,5540532	145,34108	25,981577	-103,0242	16,2523
16,3987	1540,4	135,60482	5	108,631945	145,46155	25,861103	-103,1447	16,3987
16,5451	1540,5	135,60482	5	108,7091445	145,58096	25,7417	-103,2641	16,5451
16,6915	1596	135,60482	5	108,7856639	145,69931	25,623349	-103,3824	16,6915
16,8379	1588	135,60482	5	108,8615151	145,81663	25,506032	-103,4997	16,8379
16,9843	1517	135,60482	5	108,9367096	145,93293	25,38973	-103,616	16,9843
17,1308	1435	135,60482	5	109,0113095	146,04831	25,274348	-103,7314	17,1308
17,2772	1367,9	135,60482	5	109,0852238	146,16263	25,160026	-103,8457	17,2772
17,4236	1320,2	135,60482	5	109,1585144	146,27599	25,046669	-103,9591	17,4236
17,57	1298,1	135,60482	5	109,2311918	146,3884	24,93426	-104,0715	17,57
17,7164	1286,9	135,60482	5	109,3032661	146,49987	24,822784	-104,183	17,7164
17,8628	1254,1	135,60482	5	109,3747473	146,61043	24,712226	-104,2935	17,8628

18,0093	1225,7	135,60482	5	109,4456932	146,72016	24,602495	-104,4033	18,0093
18,1557	1199,7	135,60482	5	109,5160165	146,82893	24,493727	-104,512	18,1557
18,3021	1175,5	135,60482	5	109,5857751	146,93682	24,385833	-104,6199	18,3021
18,4485	1107	135,60482	5	109,6549778	147,04386	24,278799	-104,727	18,4485
18,5949	1021,3	135,60482	5	109,7236335	147,15005	24,17261	-104,8331	18,5949
18,7413	990,1	135,60482	5	109,7917508	147,2554	24,067255	-104,9385	18,7413
18,8878	995	135,60482	5	109,8593841	147,36001	23,962648	-105,0431	18,8878
19,0342	1014,8	135,60482	5	109,9264491	147,46374	23,85892	-105,1468	19,0342
19,1806	1037	135,60482	5	109,9930003	147,56667	23,755986	-105,2498	19,1806
19,327	1068,3	135,60482	5	110,0590455	147,66882	23,653835	-105,3519	19,327
19,4734	1080,8	135,60482	5	110,1245923	147,7702	23,552456	-105,4533	19,4734
19,6198	1121,1	135,60482	5	110,1896481	147,87082	23,451835	-105,5539	19,6198
19,7663	1199,9	135,60482	5	110,2542642	147,97076	23,351895	-105,6539	19,7663
19,9127	1275,1	135,60482	5	110,3183596	148,0699	23,25276	-105,753	19,9127
20,0591	1348,3	135,60482	5	110,3819854	148,16831	23,154351	-105,8514	20,0591
20,2055	1433,2	135,60482	5	110,4451486	148,266	23,056657	-105,9491	20,2055
20,3519	1463,9	135,60482	5	110,5078558	148,36299	22,95967	-106,0461	20,3519
20,4984	1404,3	135,60482	5	110,5701558	148,45935	22,863311	-106,1424	20,4984
20,6448	1346,3	135,60482	5	110,6319702	148,55495	22,767704	-106,2381	20,6448
20,7912	1292,9	135,60482	5	110,6933477	148,64988	22,672773	-106,333	20,7912
20,9376	1239,6	135,60482	5	110,7542945	148,74415	22,578508	-106,4272	20,9376
21,084	1195,4	135,60482	5	110,8148167	148,83776	22,484899	-106,5209	21,084
21,2304	1184,5	135,60482	5	110,8749201	148,93072	22,391939	-106,6138	21,2304
21,3769	1230,4	135,60482	5	110,9346511	149,0231	22,299554	-106,7062	21,3769
21,5233	1294,9	135,60482	5	110,9939338	149,11479	22,207863	-106,7979	21,5233
21,6697	1343,9	135,60482	5	111,0528146	149,20586	22,116793	-106,889	21,6697
21,8161	1348,1	135,60482	5	111,1112989	149,29632	22,026336	-106,9794	21,8161
21,9625	1322,4	135,60482	5	111,1693921	149,38617	21,936485	-107,0693	21,9625
22,1089	1323,4	135,60482	5	111,2270993	149,47543	21,84723	-107,1585	22,1089
22,2554	1313,2	135,60482	5	111,2844647	149,56415	21,758504	-107,2473	22,2554
22,4018	1299,5	135,60482	5	111,3414149	149,65224	21,67042	-107,3353	22,4018
22,5482	1342,3	135,60482	5	111,3979941	149,73975	21,58291	-107,4228	22,5482
22,6946	1322,8	135,60482	5	111,4542072	149,82669	21,495967	-107,5098	22,6946
22,841	1238,8	135,60482	5	111,5100588	149,91307	21,409582	-107,5962	22,841
22,9874	1155,5	135,60482	5	111,5655536	149,99891	21,32375	-107,682	22,9874
23,1339	1111,1	135,60482	5	111,6207337	150,08425	21,238404	-107,7674	23,1339
23,2803	1131	135,60482	5	111,675528	150,169	21,153654	-107,8521	23,2803
23,4267	1138,1	135,60482	5	111,7299789	150,25322	21,069436	-107,9363	23,4267
23,5731	1097,5	135,60482	5	111,7840905	150,33691	20,985743	-108,02	23,5731
23,7195	1103,6	135,60482	5	111,8378672	150,42009	20,902568	-108,1032	23,7195
23,8659	1156,4	135,60482	5	111,8913129	150,50275	20,819904	-108,1859	23,8659
24,0124	1206,9	135,60482	5	111,944468	150,58497	20,73769	-108,2681	24,0124
24,1588	1217,9	135,60482	5	111,9972637	150,66662	20,656032	-108,3497	24,1588
24,3052	1216	135,60482	5	112,0497406	150,74779	20,574867	-108,4309	24,3052
24,4516	1226,1	135,60482	5	112,1019022	150,82847	20,49419	-108,5116	24,4516
24,598	1251,3	135,60482	5	112,1537525	150,90866	20,413994	-108,5918	24,598
24,7444	1282,7	135,60482	5	112,2052951	150,98838	20,334274	-108,6715	24,7444
24,8909	1268,8	135,60482	5	112,2565686	151,06769	20,254971	-108,7508	24,8909

25,0373	1196,7	135,60482	5	112,3075064	151,14647	20,176186	-108,8296	25,0373
25,1837	1094,5	135,60482	5	112,3581473	151,2248	20,097861	-108,9079	25,1837
25,3301	1016,8	135,60482	5	112,4084947	151,30267	20,01999	-108,9858	25,3301
25,4765	953,6	135,60482	5	112,4585518	151,38009	19,942567	-109,0632	25,4765
25,6229	876,4	135,60482	5	112,5083222	151,45707	19,865588	-109,1402	25,6229
25,7694	794,8	135,60482	5	112,5578427	151,53366	19,788996	-109,2168	25,7694
25,9158	747,9	135,60482	5	112,607049	151,60977	19,71289	-109,2929	25,9158
26,0622	760,5	135,60482	5	112,655978	151,68544	19,637212	-109,3685	26,0622
26,2086	811,5	135,60482	5	112,704633	151,7607	19,561958	-109,4438	26,2086
26,355	881,6	135,60482	5	112,753017	151,83553	19,487124	-109,5186	26,355
26,5014	948,7	135,60482	5	112,8011329	151,90995	19,412704	-109,5931	26,5014
26,6479	966,9	135,60482	5	112,8490164	151,98401	19,338644	-109,6671	26,6479
26,7943	960,4	135,60482	5	112,8966049	152,05762	19,265039	-109,7407	26,7943
26,9407	1006,1	135,60482	5	112,9439341	152,13082	19,191836	-109,8139	26,9407
27,0871	1023,1	135,60482	5	112,9910068	152,20363	19,11903	-109,8867	27,0871
27,2335	973,6	135,60482	5	113,0378258	152,27604	19,046616	-109,9591	27,2335
27,3799	932,4	135,60482	5	113,0843937	152,34807	18,97459	-110,0312	27,3799
27,5264	897,6	135,60482	5	113,1307449	152,41976	18,9029	-110,1029	27,5264
27,6728	914,6	135,60482	5	113,1768187	152,49102	18,831638	-110,1741	27,6728
27,8192	972	135,60482	5	113,2226493	152,5619	18,760753	-110,245	27,8192
27,9656	1012	135,60482	5	113,2682394	152,63242	18,69024	-110,3155	27,9656
28,112	1004,1	135,60482	5	113,3135915	152,70256	18,620095	-110,3857	28,112
28,2584	992,3	135,60482	5	113,3587079	152,77234	18,550314	-110,4554	28,2584
28,4049	992,2	135,60482	5	113,4036219	152,84181	18,480846	-110,5249	28,4049
28,5513	1007,5	135,60482	5	113,4482743	152,91087	18,411783	-110,594	28,5513
28,6977	992,7	135,60482	5	113,4926984	152,97958	18,343074	-110,6627	28,6977
28,8441	932,8	135,60482	5	113,5368964	153,04794	18,274713	-110,731	28,8441
28,9905	862,3	135,60482	5	113,5808707	153,11596	18,206699	-110,7991	28,9905
29,1369	800,3	135,60482	5	113,6246234	153,18363	18,139028	-110,8667	29,1369
29,2834	753,1	135,60482	5	113,6681866	153,25101	18,071649	-110,9341	29,2834

### Perfil Topográfico Estación Avila-5 90°









