

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
0,0807	2073,2	30	1	62,47322727	78,432132	88,890525	-40,11523	0,0807
0,1613	2083,9	30	5	68,48844392	89,026389	82,296268	-46,70949	0,1613
0,242	2099,7	30	5	72,01206389	95,232339	76,090318	-52,91544	0,242
0,3227	2123,4	30	5	74,51173588	99,634868	71,687788	-57,31797	0,3227
0,4034	2115,9	30	5	76,45047445	103,04946	68,273199	-60,73256	0,4034
0,484	2100,2	30	5	78,03266381	105,83608	65,486579	-63,51918	0,484
0,5647	2096,2	30	5	79,37211233	108,19517	63,127485	-65,87827	0,5647
0,6454	2077,2	30	5	80,53233579	110,23861	61,08405	-67,92171	0,6454
0,7261	2058,7	43,2	5	81,55568531	109,99659	61,326068	-67,67969	0,7261
0,8067	2042,9	59	5	82,46999771	109,77142	61,551236	-67,45452	0,8067
0,8874	2008	93,9	5	83,29814506	108,42984	62,892817	-66,11294	0,8874
0,9681	2000,3	101,6	5	84,05416098	109,1688	62,153859	-66,8519	0,9681
1,0487	2014,8	34,872727	5	84,74878193	116,75261	54,570046	-74,43571	1,0487
1,1294	2047,3	36,516667	5	85,39271224	117,58955	53,73311	-75,27265	1,1294
1,2101	2083,1	35,153846	5	85,99218179	118,86584	52,456815	-76,54894	1,2101
1,2908	2112	34,207692	5	86,55293571	120,01318	51,309478	-77,69628	1,2908
1,3714	2143,6	30	5	87,07903948	121,76894	49,553716	-79,45204	1,3714
1,4521	2180	30	5	87,57568708	122,64366	48,678999	-80,32676	1,4521
1,5328	2212,1	30	5	88,04546641	123,47105	47,851603	-81,15415	1,5328
1,6134	2239,7	30	5	88,49059763	124,25504	47,067619	-81,93814	1,6134
1,6941	2258,1	30	5	88,91453742	125,0017	46,320958	-82,6848	1,6941
1,7748	2246	30	5	89,31874497	125,71361	45,60905	-83,39671	1,7748
1,8555	2231,8	30	5	89,70497575	126,39385	44,928804	-84,07695	1,8555
1,9361	2220	30	5	90,07431227	127,04434	44,278313	-84,72744	1,9361
2,0168	2195,3	30	5	90,42901323	127,66906	43,653598	-85,35216	2,0168
2,0975	2167,5	30	5	90,76979596	128,26926	43,053397	-85,95236	2,0975

2,1782	2147,3	30	5	91,09771165	128,8468	42,475858	-86,5299	2,1782
2,2588	2139,4	30	5	91,41331215	129,40265	41,920009	-87,08575	2,2588
2,3395	2128,1	30	5	91,71821756	129,93966	41,382997	-87,62276	2,3395
2,4202	2094	30	5	92,0127817	130,45846	40,864198	-88,14156	2,4202
2,5008	2056,6	30	5	92,29733579	130,95963	40,363029	-88,64273	2,5008
2,5815	2018,1	30	5	92,57319916	131,44549	39,877166	-89,12859	2,5815
2,6622	1981,8	30	5	92,84057015	131,9164	39,406261	-89,5995	2,6622
2,7429	1937,6	30	5	93,09995606	132,37324	38,94942	-90,05634	2,7429
2,8235	1900,2	30	5	93,35151241	132,81629	38,506368	-90,49939	2,8235
2,9042	1850,3	30	5	93,59628699	133,2474	38,07526	-90,9305	2,9042
2,9849	1791,7	30	5	93,83435229	133,66669	37,65597	-91,34979	2,9849
3,0655	1732,5	30	5	94,06578298	134,07429	37,248364	-91,75739	3,0655
3,1462	1669,7	40,335484	5	94,29148311	132,27583	39,046823	-89,95893	3,1462
3,2269	1608,3	54,864516	4,5	94,51146671	130,36236	40,460295	-88,54546	3,2269
3,3076	1555,8	70,215625	4,5	94,72601624	128,87652	41,946132	-87,05962	3,3076
3,3882	1508,2	86,078788	4	94,93513734	127,68992	42,632742	-86,37302	3,3882
3,4689	1458,4	102,47353	4	95,13959218	126,70507	43,617589	-85,38817	3,4689
3,5496	1409,2	121,11176	4	95,33934489	125,75746	44,565193	-84,44056	3,5496
3,6303	1366,3	138,66857	4	95,53460689	125,03448	45,288174	-83,71758	3,6303
3,7109	1336,4	156,08056	3,5	95,7253416	124,42732	45,395336	-83,61042	3,7109
3,7916	1296,8	173,62162	3,5	95,91220686	123,89799	45,924663	-83,08109	3,7916
3,8723	1253,1	191,38947	3,5	96,0951365	123,42675	46,395902	-82,60985	3,8723
3,9529	1235,8	200	3,5	96,27407313	123,35589	46,466765	-82,53899	3,9529
4,0336	1226,9	200	3,5	96,44961314	123,61769	46,204962	-82,80079	4,0336
4,1143	1205,9	200	3,5	96,62167569	123,87431	45,948346	-83,05741	4,1143
4,195	1165,8	200	3,5	96,79039588	124,12594	45,696715	-83,30904	4,195
4,5176	1120,9	200	3,5	97,43391207	125,08569	44,736966	-84,26879	4,5176
4,5983	1113,5	200	3,5	97,58770261	125,31506	44,507601	-84,49816	4,5983
4,679	1102,5	200	3,5	97,73881748	125,54043	44,282227	-84,72353	4,679
4,7597	1050	200	3,5	97,88734818	125,76195	44,060706	-84,94505	4,7597
4,921	1035	200	3,5	98,17682387	126,19368	43,628978	-85,37678	4,921
5,0017	1023,1	200	3,5	98,31810936	126,40439	43,418263	-85,58749	5,0017
5,0824	1001,5	200	3,5	98,45713342	126,61174	43,210921	-85,79484	5,0824
5,163	941	200	3,5	98,59379907	126,81556	43,007096	-85,99866	5,163
5,2437	896,2	200	3,5	98,72851331	127,01647	42,806182	-86,19957	5,2437
5,3244	850,9	200	3,5	98,86117007	127,21432	42,608336	-86,39742	5,3244
5,405	814,9	200	3,5	98,99167054	127,40895	42,413706	-86,59205	5,405
5,4857	688,8	200	3	99,12039764	127,60094	41,72172	-87,28404	5,4857
5,5664	750	200	3	99,2472448	127,79012	41,532539	-87,47322	5,5664
5,6471	810	200	3,5	99,37226614	127,97658	41,846081	-87,15968	5,6471
5,7277	889,8	200	3,5	99,49536183	128,16016	41,662494	-87,34326	5,7277
5,8084	912,4	200	3,5	99,61688691	128,34141	41,48125	-87,52451	5,8084
5,8891	945,6	200	4	99,73673515	128,52015	41,802507	-87,20325	5,8891
5,9697	980,4	200	4	99,85480671	128,69624	41,626414	-87,37934	5,9697
6,0504	1071,8	200	4	99,97143832	128,87019	41,452468	-87,55329	6,0504
6,1311	1093,4	200	4,5	100,0865246	129,04183	41,780827	-87,22493	6,1311
6,2118	1125,1	200	4,5	100,2001059	129,21123	41,61143	-87,39433	6,2118
6,2924	1166,6	200	5	100,312083	129,37823	41,944426	-87,06133	6,2924

6,3731	1202,3	200	5	100,4227712	129,54331	41,779344	-87,22641	6,3731
6,4538	1236,7	200	5	100,5320666	129,70632	41,616339	-87,38942	6,4538
6,5345	1269,8	200	5	100,6400038	129,8673	41,455361	-87,5504	6,5345
6,6151	1301,8	200	5	100,7464848	130,0261	41,296553	-87,7092	6,6151
6,6958	1316,9	200	5	100,851806	130,18318	41,139476	-87,86628	6,6958
6,7765	1304,3	200	5	100,9558654	130,33838	40,984281	-88,02148	6,7765
6,8571	1274	200	5	101,0585662	130,49155	40,831111	-88,17465	6,8571
6,9378	1243,5	200	5	101,1601921	130,64311	40,679545	-88,32621	6,9378
7,0185	1211,1	200	5	101,2606427	130,79292	40,529732	-88,47602	7,0185
7,0992	1174,7	200	5	101,3599448	130,94103	40,381631	-88,62413	7,0992
7,1798	1143,2	200	5	101,4580035	131,08727	40,235385	-88,77037	7,1798
7,2605	1110,3	200	5	101,5550872	131,23206	40,090594	-88,91516	7,2605
7,3412	1076,2	200	5	101,6510977	131,37525	39,947402	-89,05835	7,3412
7,4219	1055,2	200	5	101,7460585	131,51688	39,805777	-89,19998	7,4219
7,5025	1032	200	5	101,8398767	131,6568	39,665855	-89,3399	7,5025
7,5832	1007,5	200	5	101,9328068	131,7954	39,527258	-89,4785	7,5832
7,6639	992,6	200	5	102,0247532	131,93253	39,390128	-89,61563	7,6639
7,7445	958,7	200	5	102,1156243	132,06806	39,254602	-89,75116	7,7445
7,8252	925,5	200	4,5	102,2056655	132,20234	38,620313	-90,38544	7,8252
7,9059	894,9	200	4,5	102,2947829	132,33525	38,487402	-90,51835	7,9059
7,9866	857,1	200	4,5	102,3829952	132,46682	38,355841	-90,64992	7,9866
8,0672	813,4	200	4,5	102,4702131	132,59689	38,225763	-90,77999	8,0672
8,1479	771,6	200	4,5	102,5566704	132,72584	38,09682	-90,90894	8,1479
8,2286	725,3	200	4,5	102,6422756	132,85351	37,969147	-91,03661	8,2286
8,3092	677,9	200	4	102,7269408	132,97978	37,342876	-91,66288	8,3092
8,3899	638,3	200	4	102,8108923	133,10499	37,21767	-91,78809	8,3899
8,4706	601,2	200	4	102,8940401	133,22899	37,093662	-91,91209	8,4706
8,5513	568	200	4	102,9763994	133,35183	36,970831	-92,03493	8,5513
8,6319	575,4	200	4	103,0578846	133,47335	36,849303	-92,15645	8,6319
8,7126	586,9	200	4	103,1387121	133,5939	36,728755	-92,277	8,7126
8,7933	598,7	200	4	103,2187944	133,71334	36,60932	-92,39644	8,7933
8,874	587,8	200	4	103,2981451	133,83168	36,490975	-92,51478	8,874
8,9546	568,4	200	4	103,3766804	133,94881	36,373846	-92,63191	8,9546
9,0353	550	200	4	103,4546081	134,06503	36,257624	-92,74813	9,0353
9,116	539,3	200	4	103,5318429	134,18022	36,142435	-92,86332	9,116
9,1966	546,6	200	4	103,6083025	134,29425	36,028402	-92,97735	9,1966
9,2773	570,7	200	4,5	103,6841886	134,40743	36,415225	-92,59053	9,2773
9,358	610,5	200	4,5	103,7594174	134,51963	36,303028	-92,70273	9,358
9,4387	654,3	200	4,5	103,8340002	134,63086	36,191794	-92,81396	9,4387
9,5193	703	200	5	103,9078568	134,74101	36,581643	-92,42411	9,5193
9,6	759,1	200	5	103,9811812	134,85037	36,472286	-92,53347	9,6
9,6807	809,9	200	5	104,0538918	134,95881	36,363845	-92,64191	9,6807
9,7613	842,7	200	5	104,1259098	135,06622	36,256436	-92,74932	9,7613
9,842	853,8	200	5	104,1974238	135,17288	36,149779	-92,85598	9,842
9,9227	856,9	200	5	104,2683538	135,27866	36,043993	-92,96176	9,9227
10,0034	820,4	200	5	104,3387093	135,38359	35,939064	-93,06669	10,0034
10,084	777,4	200	5	104,4084133	135,48755	35,835107	-93,17065	10,084
10,1647	729,5	200	5	104,4776479	135,59081	35,73185	-93,27391	10,1647

10,2454	686	200	5	104,5463349	135,69325	35,629409	-93,37635	10,2454
10,3261	645,1	200	5	104,6144831	135,79488	35,527772	-93,47798	10,3261
10,4067	594,3	200	5	104,6820173	135,89561	35,42705	-93,57871	10,4067
10,4874	555,9	200	5	104,7491132	135,99567	35,326983	-93,67877	10,4874
10,5681	518	200	4,5	104,8156949	136,09497	34,727682	-94,27807	10,5681
10,6487	484,6	200	4,5	104,8816884	136,1934	34,629258	-94,3765	10,6487
10,7294	460,5	200	4,5	104,9472653	136,2912	34,531456	-94,4743	10,7294
10,8101	437,1	200	4,5	105,0123508	136,38827	34,434387	-94,57137	10,8101
10,8908	431,5	200	4,5	105,0769522	136,48462	34,338039	-94,66772	10,8908
10,9714	428,8	200	4,5	105,1409976	136,58014	34,242521	-94,76324	10,9714
11,0521	437,7	200	4,5	105,2046527	136,67507	34,147585	-94,85817	11,0521
11,1328	452,5	200	5	105,2678447	136,76932	34,55334	-94,45242	11,1328
11,2134	472,8	200	5	105,3305029	136,86277	34,459891	-94,54587	11,2134
11,2941	483,5	200	5	105,3927891	136,95566	34,366996	-94,63876	11,2941
11,3748	480,4	200	5	105,454632	137,04789	34,274763	-94,73099	11,3748
11,4555	476,3	200	5	105,5160376	137,13947	34,183182	-94,82257	11,4555
11,5361	472,8	200	5	105,5769368	137,2303	34,092356	-94,9134	11,5361
11,6168	468,5	200	5	105,6374868	137,32061	34,002051	-95,00371	11,6168
11,6975	459,2	200	5	105,6976177	137,41029	33,912371	-95,09339	11,6975
11,7782	446,8	200	5	105,7573351	137,49935	33,823308	-95,18245	11,7782
11,8588	427,5	200	5	105,8165715	137,58769	33,734962	-95,27079	11,8588
11,9395	403,1	200	5	105,8754794	137,67555	33,647106	-95,35865	11,9395
12,0202	377,6	200	5	105,9339904	137,76281	33,559842	-95,44591	12,0202
12,1008	354,8	200	5	105,9920382	137,84939	33,473269	-95,53249	12,1008
12,1815	330,5	200	5	106,049772	137,93549	33,387164	-95,61859	12,1815
12,2622	311,9	200	5	106,1071245	138,02103	33,301628	-95,70413	12,2622
12,3429	297	200	5	106,1641008	138,106	33,216652	-95,7891	12,3429
12,4235	275	200	5	106,2206359	138,19032	33,132335	-95,87342	12,4235
12,5042	252,1	200	5	106,2768748	138,2742	33,04846	-95,9573	12,5042
12,5849	220,6	200	4,5	106,332752	138,35753	32,465124	-96,54063	12,5849
12,6655	191	200	4,5	106,3882034	138,44023	32,382423	-96,62333	12,6655
12,7462	164,8	200	4,5	106,4433711	138,52251	32,300145	-96,70561	12,7462
12,8269	144,2	200	4,5	106,4981908	138,60427	32,218386	-96,78737	12,8269
12,9076	124,2	200	4,5	106,5526665	138,68552	32,13714	-96,86862	12,9076
12,9882	99,1	200	4,5	106,6067359	138,76616	32,056501	-96,94926	12,9882
13,0689	71,9	200	4,5	106,6605373	138,8464	31,976261	-97,0295	13,0689
13,1496	41,5	200	4,5	106,7140074	138,92614	31,896515	-97,10924	13,1496
13,2303	23,3	200	4,5	106,7671504	139,0054	31,817256	-97,1885	13,2303
13,3109	17	200	4,5	106,819905	139,08408	31,738578	-97,26718	13,3109
13,3916	14,5	200	4,5	106,8724059	139,16238	31,660277	-97,34548	13,3916
13,4723	17,3	200	4,5	106,9245915	139,24021	31,582447	-97,42331	13,4723
13,5529	13,5	200	4,5	106,9764013	139,31748	31,505177	-97,50058	13,5529
13,6336	5	200	4,5	107,0279675	139,39439	31,428271	-97,57749	13,6336
13,7143	2,3	200	4,5	107,0792295	139,47084	31,351818	-97,65394	13,7143
13,795	1,1	200	4,5	107,1301907	139,54684	31,275814	-97,72994	13,795
13,8756	0	200	4,5	107,180792	139,62231	31,200346	-97,80541	13,8756
13,9563	0	200	4,5	107,2311625	139,69743	31,125223	-97,88053	13,9563
14,037	0	200	4,5	107,2812426	139,77212	31,050533	-97,95522	14,037

14,1176	0	200	5	107,330974	139,84629	31,476363	-97,52939	14,1176
14,1983	0	200	5	107,3804835	139,92013	31,402524	-97,60323	14,1983
14,279	0	200	5	107,4297124	139,99355	31,329103	-97,67665	14,279
14,3597	0	200	5	107,4786639	140,06656	31,256096	-97,74966	14,3597
14,4403	0	200	5	107,5272809	140,13907	31,183588	-97,82217	14,4403
14,521	0	200	5	107,5756871	140,21126	31,111395	-97,89436	14,521
14,6017	0	200	5	107,623825	140,28306	31,039601	-97,96616	14,6017
14,6824	0	200	5	107,6716976	140,35445	30,968203	-98,03755	14,6824
14,763	0	200	5	107,719249	140,42537	30,897285	-98,10847	14,763
14,8437	0	200	5	107,7665999	140,49599	30,826665	-98,17909	14,8437
14,9244	0	200	5	107,8136942	140,56623	30,756428	-98,24933	14,9244
15,005	0	200	5	107,8604766	140,636	30,686656	-98,3191	15,005
15,0857	0	200	5	107,9070659	140,70548	30,617172	-98,38858	15,0857
15,1664	0	200	5	107,9534067	140,7746	30,548059	-98,4577	15,1664
15,2471	0	200	5	107,9995015	140,84334	30,479312	-98,52644	15,2471
15,3277	0	200	5	108,0452964	140,91164	30,411013	-98,59474	15,3277
15,4084	0	200	5	108,0909075	140,97967	30,342988	-98,66277	15,4084
15,4891	0	200	5	108,1362802	141,04734	30,275319	-98,73044	15,4891
15,5698	0	200	5	108,1814173	141,11466	30,208001	-98,79776	15,5698
15,6504	0	200	5	108,2262654	141,18154	30,141114	-98,86464	15,6504
15,7311	0	200	5	108,2709384	141,24817	30,074488	-98,93127	15,7311
15,8118	0	200	5	108,3153828	141,31445	30,008203	-98,99755	15,8118
15,8924	0	200	5	108,3595463	141,38032	29,942337	-99,06342	15,8924
15,9731	0	200	5	108,4035408	141,44593	29,876723	-99,12903	15,9731
16,0538	0	200	5	108,4473135	141,51122	29,81144	-99,19432	16,0538
16,1345	0	200	5	108,4908668	141,57617	29,746484	-99,25927	16,1345
16,4737	0	200	5	108,6715796	141,84569	29,476967	-99,52879	16,4737
16,5573	0	200	5	108,7155469	141,91126	29,411393	-99,59436	16,5573
16,6409	0	200	5	108,7592928	141,97651	29,34615	-99,65961	16,6409
16,7246	0	200	5	108,8028714	142,0415	29,281156	-99,7246	16,7246

Perfil Topográfico Estación Avila-5 60°



