

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
0,1445	2024,8	77,1	-3	67,53311351	83,934351	79,388306	-49,61745	0,1445
0,289	2014,7	87,2	1,5	73,55371343	93,17974	74,642917	-54,36284	0,289
0,4335	1962,5	139,4	1,5	77,07553861	96,516728	71,305928	-57,69983	0,4335
0,578	1745	200	-6	79,57431334	98,449658	61,872998	-67,13276	0,578
0,7226	1624	200	-7	81,51371572	101,34211	57,980549	-71,02521	0,7226
0,8671	1598	200	-4	83,0971403	103,70365	58,61901	-70,38675	0,8671
1,0116	1549,6	200	-4	84,43593299	105,70034	56,622317	-72,38344	1,0116
1,1561	1594,8	200	-1	85,5956646	107,42998	57,892679	-71,11308	1,1561
1,3006	1638,7	200	1	86,61863157	108,95564	58,367013	-70,63874	1,3006
1,4451	1672,6	200	1,5	87,53371459	110,32041	57,502246	-71,50351	1,4451
1,5896	1717,2	200	3	88,36151365	111,555	57,767656	-71,2381	1,5896
1,7341	1787,5	200	4	89,11723934	112,6821	57,640558	-71,3652	1,7341
1,8786	1843,8	200	5	89,81244293	113,71893	57,603722	-71,40203	1,8786
2,0231	1857,2	200	5	90,45610357	114,6789	56,643758	-72,362	2,0231
2,1677	1871,6	200	5	91,05574013	115,5732	55,749453	-73,2563	2,1677
2,3122	1871,5	200	5	91,61626451	116,40918	54,91348	-74,09228	2,3122
2,4567	1804,9	200	5	92,14279909	117,19446	54,128199	-74,87756	2,4567
2,6012	1813,8	200	5	92,63923148	117,93484	53,387814	-75,61794	2,6012
2,7457	1866,3	200	5	93,10881825	118,63519	52,687466	-76,31829	2,7457
2,8902	1902,9	200	5	93,55431451	119,29961	52,023047	-76,98271	2,8902
3,0347	1895,2	200	5	93,97807187	119,93161	51,39105	-77,61471	3,0347
3,1792	1836,8	200	5	94,38211357	120,5342	50,788457	-78,2173	3,1792
3,3237	1770,9	200	5	94,76819291	121,11	50,212654	-78,7931	3,3237
3,4682	1726	200	5	95,13783925	121,6613	49,661359	-79,3444	3,4682
3,6128	1749,9	200	5	95,49263498	122,19044	49,132212	-79,87354	3,6128
3,7573	1781,7	200	5	95,83327402	122,69848	48,624178	-80,38158	3,7573

3,9018	1761,6	200	5	96,16105666	123,18734	48,135319	-80,87044	3,9018
4,0463	1694,8	200	5	96,47691815	123,65842	47,664239	-81,34152	4,0463
4,1908	1646,3	200	5	96,78169528	124,11297	47,209691	-81,79607	4,1908
4,3353	1634	200	5	97,07613969	124,5521	46,770553	-82,2352	4,3353
4,4798	1623,6	200	5	97,36092908	124,97684	46,345814	-82,65994	4,4798
4,6243	1590,3	200	5	97,63667659	125,3881	45,934561	-83,0712	4,6243
4,7688	1544,2	200	5	97,90393875	125,78669	45,535963	-83,46979	4,7688
4,9133	1536,9	200	5	98,16322222	126,17339	45,149264	-83,85649	4,9133
5,0579	1584	200	5	98,41516135	126,54914	44,773519	-84,23224	5,0579
5,2024	1589,5	200	5	98,65983139	126,91404	44,408615	-84,59714	5,2024
5,3469	1570	200	5	98,89779781	127,26895	44,053709	-84,95205	5,3469
5,4914	1532,4	200	5	99,12941816	127,61439	43,708267	-85,29749	5,4914
5,6359	1483,7	200	5	99,35502215	127,95086	43,371799	-85,63396	5,6359
5,7804	1415	200	5	99,57491442	128,27881	43,043848	-85,96191	5,7804
5,9249	1367,3	200	5	99,78937707	128,59866	42,723996	-86,28176	5,9249
6,0694	1376	200	5	99,99867178	128,91081	42,411851	-86,59391	6,0694
6,2139	1400,6	200	5	100,2030418	129,21561	42,107051	-86,89871	6,2139
6,3585	1412,7	200	5	100,4028501	129,5136	41,809055	-87,1967	6,3585
6,503	1351,1	200	5	100,5980317	129,8047	41,517958	-87,4878	6,503
6,6475	1241,7	200	5	100,7889235	130,0894	41,23326	-87,7725	6,6475
6,792	1203,7	200	5	100,9757101	130,36797	40,954684	-88,05107	6,792
6,9365	1244,9	200	5	101,1585644	130,64068	40,681973	-88,32378	6,9365
7,081	1298,1	200	5	101,3376485	130,90777	40,414885	-88,59087	7,081
7,2255	1326,1	200	5	101,5131147	131,16946	40,153192	-88,85256	7,2255
7,37	1244,3	200	5	101,6851063	131,42598	39,896681	-89,10908	7,37
7,5145	1183,5	200	5	101,8537583	131,6775	39,645152	-89,3606	7,5145
7,659	1157,1	200	5	102,019198	131,92424	39,398413	-89,60734	7,659
7,8036	1174,7	200	5	102,1816566	132,16654	39,15612	-89,84964	7,8036
7,9481	1223,9	200	5	102,341023	132,40422	38,918439	-90,08732	7,9481
8,0926	1273,5	200	5	102,4975181	132,63762	38,68504	-90,32072	8,0926
8,2371	1265,7	200	5	102,6512433	132,86688	38,455772	-90,54998	8,2371
8,3816	1228,3	200	5	102,8022952	133,09216	38,230492	-90,77526	8,3816
8,5261	1253,3	200	5	102,950765	133,31359	38,009062	-90,99669	8,5261
8,6706	1295,1	200	5	103,0967396	133,5313	37,791354	-91,2144	8,6706
8,8151	1280,2	200	5	103,2403014	133,74541	37,577244	-91,42851	8,8151
8,9596	1230,9	200	5	103,381529	133,95604	37,366615	-91,63914	8,9596
9,1041	1168,6	200	5	103,520497	134,1633	37,159357	-91,8464	9,1041
9,2487	1094	200	5	103,6573704	134,36743	36,955222	-92,05053	9,2487
9,3932	1046,7	200	5	103,792028	134,56826	36,754392	-92,25136	9,3932
9,5377	1069,3	200	5	103,9246297	134,76603	36,556628	-92,44913	9,5377
9,6822	1114,7	200	5	104,0552376	134,96082	36,361838	-92,64392	9,6822
9,8267	1105,1	200	5	104,1839105	135,15272	36,169933	-92,83582	9,8267
9,9712	1054,7	200	5	104,3107051	135,34183	35,98083	-93,02493	9,9712
10,1157	1002,4	200	5	104,4356754	135,52821	35,794448	-93,21131	10,1157
10,2602	998,1	200	5	104,5588731	135,71195	35,610709	-93,39505	10,2602
10,4047	1013,5	200	5	104,6803478	135,89312	35,42954	-93,57622	10,4047
10,5492	1019,1	200	5	104,8001471	136,07179	35,25087	-93,75489	10,5492
10,6938	1007,4	200	5	104,9183977	136,24815	35,07451	-93,93125	10,6938

10,8383	1000,6	200	5	105,0349799	136,42202	34,900637	-94,10512	10,8383
10,9828	1010,8	200	5	105,1500181	136,59359	34,729068	-94,27669	10,9828
11,1273	1019,7	200	5	105,2635525	136,76292	34,559741	-94,44602	11,1273
11,2718	1016,5	200	5	105,3756221	136,93006	34,3926	-94,61316	11,2718
11,4163	1001,1	200	5	105,486264	137,09507	34,227587	-94,77817	11,4163
11,5608	983,1	200	5	105,5955143	137,25801	34,064649	-94,94111	11,5608
11,7053	959,8	200	5	105,7034076	137,41892	33,903736	-95,10202	11,7053
11,8498	942,9	200	5	105,809977	137,57786	33,744797	-95,26096	11,8498
11,9944	949,6	200	5	105,9153271	137,73498	33,587677	-95,41808	11,9944
12,1389	963,4	200	5	106,0193432	137,89011	33,432546	-95,57321	12,1389
12,2834	970,5	200	5	106,1221285	138,04341	33,27925	-95,72651	12,2834
12,4279	982,3	200	5	106,2237116	138,19491	33,127748	-95,87801	12,4279
12,5724	991,2	200	5	106,3241204	138,34466	32,977997	-96,02776	12,5724
12,7169	996	200	5	106,4233817	138,4927	32,829958	-96,1758	12,7169
12,8614	986,2	200	5	106,5215215	138,63907	32,683591	-96,32217	12,8614
13,0059	979,7	200	5	106,6185648	138,7838	32,538859	-96,4669	13,0059
13,1504	976,1	200	5	106,7145358	138,92693	32,395727	-96,61003	13,1504
13,2949	955	200	5	106,8094581	139,0685	32,254158	-96,7516	13,2949
13,4395	921,8	200	5	106,9034188	139,20863	32,114024	-96,89173	13,4395
13,584	882,1	200	5	106,99631	139,34717	31,975485	-97,03027	13,584
13,7285	834,8	200	5	107,0882183	139,48424	31,838412	-97,16734	13,7285
13,873	778	200	5	107,1791643	139,61988	31,702774	-97,30298	13,873
14,0175	774,2	200	5	107,2691679	139,75412	31,568541	-97,43722	14,0175
14,162	811,3	200	5	107,3582484	139,88697	31,435685	-97,57007	14,162
14,3065	843,2	200	5	107,4464246	140,01848	31,304178	-97,70158	14,3065
14,451	852	200	5	107,5337146	140,14866	31,173993	-97,83176	14,451
14,5955	862,4	200	5	107,6201361	140,27755	31,045103	-97,96065	14,5955
14,74	871,9	200	5	107,7057062	140,40517	30,917482	-98,08827	14,74
14,8846	882,6	200	5	107,7904999	140,53164	30,79102	-98,21474	14,8846
15,0291	848,8	200	5	107,8744161	140,65679	30,665866	-98,33989	15,0291
15,1736	811,2	200	5	107,9575292	140,78075	30,54191	-98,46385	15,1736
15,3181	784,6	200	5	108,0398546	140,90353	30,419129	-98,58663	15,3181
15,4626	765,3	200	5	108,121407	141,02516	30,297501	-98,70826	15,4626
15,6071	744,2	200	5	108,2022008	141,14565	30,177004	-98,82875	15,6071
15,7516	741	200	5	108,2822501	141,26504	30,057618	-98,94814	15,7516
15,8961	738,2	200	5	108,3615683	141,38334	29,939321	-99,06644	15,8961
16,0406	729,5	200	5	108,4401688	141,50056	29,822096	-99,18366	16,0406
16,1852	703,8	200	5	108,518118	141,61682	29,705841	-99,29992	16,1852
16,3297	688,8	200	5	108,5953207	141,73196	29,5907	-99,41506	16,3297
16,4742	686,6	200	5	108,6718433	141,84608	29,476573	-99,52918	16,4742
16,6187	692,5	200	5	108,7476975	141,95921	29,363443	-99,64231	16,6187
16,7632	713	200	5	108,8228951	142,07136	29,251293	-99,75446	16,7632
16,9077	734,6	200	5	108,8974472	142,18255	29,140105	-99,86565	16,9077
17,0522	743,3	200	5	108,9713649	142,29279	29,029863	-99,97589	17,0522
17,1967	740,2	200	5	109,0446589	142,40211	28,920551	-100,0852	17,1967
17,3412	764,5	200	5	109,1173395	142,5105	28,812155	-100,1936	17,3412
17,4857	808,1	200	5	109,189417	142,618	28,704657	-100,3011	17,4857
17,6303	840,2	200	5	109,2609506	142,72469	28,597971	-100,4078	17,6303

17,7748	838,4	200	5	109,331851	142,83043	28,492229	-100,5135	17,7748
17,9193	803,6	200	5	109,4021774	142,93531	28,387344	-100,6184	17,9193
18,0638	775,4	200	5	109,4719389	143,03936	28,283301	-100,7225	18,0638
18,2083	764,2	200	5	109,5411446	143,14257	28,180086	-100,8257	18,2083
18,3528	763,4	200	5	109,6098032	143,24497	28,077688	-100,9281	18,3528
18,4973	757,6	200	5	109,6779234	143,34656	27,976093	-101,0297	18,4973
18,6418	762,3	200	5	109,7455135	143,44737	27,875288	-101,1305	18,6418
18,7863	748,9	200	5	109,8125816	143,54739	27,775262	-101,2305	18,7863
18,9308	727,2	200	5	109,8791359	143,64665	27,676002	-101,3298	18,9308
19,0754	734,8	200	5	109,9452296	143,74523	27,577429	-101,4283	19,0754
19,2199	781,9	200	5	110,010779	143,84299	27,479668	-101,5261	19,2199
19,3644	837,8	200	5	110,0758375	143,94002	27,382639	-101,6231	19,3644
19,5089	855,5	200	5	110,1404122	144,03633	27,286331	-101,7194	19,5089
19,6534	816,4	200	5	110,2045104	144,13192	27,190734	-101,815	19,6534
19,7979	756,1	200	5	110,2681391	144,22682	27,095838	-101,9099	19,7979
19,9424	707,8	200	5	110,331305	144,32103	27,001631	-102,0041	19,9424
20,0869	667,3	200	5	110,3940149	144,41455	26,908105	-102,0977	20,0869
20,2314	700,3	200	5	110,4562753	144,50741	26,815249	-102,1905	20,2314
20,3759	771,6	200	5	110,5180926	144,5996	26,723054	-102,2827	20,3759
20,5205	843,6	200	5	110,5795153	144,69121	26,631447	-102,3743	20,5205
20,665	911,8	200	5	110,6404648	144,78211	26,540546	-102,4652	20,665
20,8095	935	200	5	110,7009895	144,87238	26,450279	-102,5555	20,8095
20,954	924,1	200	5	110,7610954	144,96202	26,360636	-102,6451	20,954
21,0985	899,2	200	5	110,8207882	145,05105	26,27161	-102,7341	21,0985
21,243	873,2	200	5	110,8800736	145,13947	26,183191	-102,8226	21,243
21,3875	880,8	200	5	110,938957	145,22729	26,095371	-102,9104	21,3875
21,532	926	200	5	110,997444	145,31451	26,008143	-102,9976	21,532
21,6765	950,1	200	5	111,0555398	145,40116	25,921498	-103,0843	21,6765
21,8211	934,2	200	5	111,1132894	145,48729	25,83537	-103,1704	21,8211
21,9656	907,9	200	5	111,170618	145,57279	25,749869	-103,2559	21,9656
22,1101	887,5	200	5	111,2275707	145,65773	25,664929	-103,3408	22,1101
22,2546	868,2	200	5	111,2841524	145,74211	25,580542	-103,4252	22,2546
22,3991	860,8	200	5	111,3403679	145,82595	25,496702	-103,5091	22,3991
22,5436	858,8	200	5	111,396222	145,90926	25,4134	-103,5924	22,5436
22,6881	859,2	200	5	111,4517191	145,99203	25,330631	-103,6751	22,6881
22,8326	874,1	200	5	111,5068639	146,07427	25,248388	-103,7574	22,8326
22,9771	911,8	200	5	111,5616609	146,15599	25,166663	-103,8391	22,9771
23,1216	940,6	200	5	111,6161142	146,23721	25,08545	-103,9203	23,1216
23,2662	928,6	200	5	111,6702657	146,31797	25,004688	-104,0011	23,2662
23,4107	918	200	5	111,7240446	146,39817	24,924482	-104,0813	23,4107
23,5552	893,8	200	5	111,7774925	146,47789	24,844769	-104,161	23,5552
23,6997	875	200	5	111,8306135	146,55711	24,765543	-104,2402	23,6997
23,8442	872,9	200	5	111,8834117	146,63586	24,6868	-104,319	23,8442
23,9887	869,1	200	5	111,9358908	146,71413	24,608531	-104,3972	23,9887
24,1332	845,7	200	5	111,9880548	146,79192	24,530733	-104,475	24,1332
24,2777	842,4	200	5	112,0399074	146,86926	24,4534	-104,5524	24,2777
24,4222	797,8	200	5	112,0914522	146,94613	24,376525	-104,6292	24,4222
24,5667	789,7	200	5	112,142693	147,02255	24,300104	-104,7057	24,5667

24,7113	761,6	200	5	112,1936684	147,09858	24,224079	-104,7817	24,7113
24,8558	708,4	200	5	112,2443115	147,17411	24,148549	-104,8572	24,8558
25,0003	648,7	200	5	112,294661	147,2492	24,073457	-104,9323	25,0003
25,1448	619,7	200	5	112,3447203	147,32386	23,998798	-105,007	25,1448
25,2893	599,5	200	5	112,3944927	147,39809	23,924567	-105,0812	25,2893
25,4338	575,8	200	5	112,4439816	147,4719	23,850758	-105,155	25,4338
25,5783	546,7	200	5	112,4931901	147,54529	23,777368	-105,2284	25,5783
25,7228	515,8	200	5	112,5421214	147,61827	23,704392	-105,3014	25,7228
25,8673	502,5	200	5	112,5907786	147,69083	23,631824	-105,3739	25,8673
26,0118	526,3	200	5	112,6391647	147,763	23,55966	-105,4461	26,0118
26,1564	574,7	200	5	112,687316	147,83481	23,487847	-105,5179	26,1564
26,3009	601,2	200	5	112,7351688	147,90618	23,416478	-105,5893	26,3009
26,4454	621,2	200	5	112,7827594	147,97716	23,345501	-105,6603	26,4454
26,5899	649	200	5	112,8300907	148,04775	23,274911	-105,7308	26,5899
26,7344	677,8	200	5	112,8771654	148,11795	23,204703	-105,8011	26,7344
26,8789	713,8	200	5	112,9239864	148,18778	23,134873	-105,8709	26,8789
27,0234	732,5	200	5	112,9705564	148,25724	23,065418	-105,9403	27,0234
27,1679	714,2	200	5	113,016878	148,32632	22,996334	-106,0094	27,1679
27,3124	674,5	200	5	113,0629539	148,39504	22,927615	-106,0781	27,3124
27,457	646,3	200	5	113,1088182	148,46344	22,859213	-106,1465	27,457
27,6015	669,2	200	5	113,1544103	148,53144	22,791216	-106,2145	27,6015
27,746	708,3	200	5	113,1997642	148,59908	22,723575	-106,2822	27,746
27,8905	737,1	200	5	113,2448826	148,66637	22,656285	-106,3495	27,8905
28,035	770,8	200	5	113,2897678	148,73331	22,589342	-106,4164	28,035
28,1795	805,4	200	5	113,3344222	148,79991	22,522744	-106,483	28,1795
28,324	825,8	200	5	113,3788483	148,86617	22,456486	-106,5493	28,324
28,4685	818,1	200	5	113,4230483	148,93209	22,390566	-106,6152	28,4685
28,613	775,8	200	5	113,4670245	148,99768	22,324979	-106,6808	28,613
28,7575	757,1	200	5	113,5107791	149,06293	22,259723	-106,746	28,7575
28,9021	726,9	200	5	113,5543446	149,12791	22,194749	-106,811	28,9021

Perfil Topográfico Estación Avila-5 120°



