

Ganancia antena tx	5
Campo mínimo Servicio	42,3946448
Campo mínimo proteccion	30,3740449
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)
0,00	1514,50	30,00	5	0	0	172,39404	43,3894001	0
0,0482	1526	30,00	5	57,995586	70,5464	101,84762	-27,1570214	0,0482
0,0964	1538,6	30,00	5	64,016185	81,1502	91,243885	-37,7607596	0,0964
0,1446	1547,1	30,00	5	67,538011	87,3529	85,041096	-43,9635488	0,1446
0,1928	1554,6	30,00	5	70,036785	91,7539	80,640147	-48,3644978	0,1928
0,241	1563,3	30,00	4,5	71,974986	95,1675	76,726506	-52,278139	0,241
0,2892	1559,5	30,00	5	73,558611	97,9567	74,437358	-54,567287	0,2892
0,3374	1553,6	30,00	5	74,897546	100,315	72,079167	-56,925478	0,3374
0,3856	1550,6	30,00	5	76,057385	102,358	70,036409	-58,9682359	0,3856
0,4338	1533,1	30,00	5	77,080436	104,159	68,234569	-60,7700762	0,4338
0,482	1511,8	30,00	5	77,995586	105,771	66,622768	-62,3818772	0,482
0,5302	1491	35,50	5	78,823439	106,351	66,043104	-62,9615409	0,5302
0,5784	1478,2	48,30	5	79,57921	106,024	66,369842	-62,6348031	0,5784
0,6267	1468,4	58,10	5	80,275839	106,202	66,192216	-62,8124284	0,6267
0,6749	1459,2	67,30	5	80,919433	106,464	65,930046	-63,0745989	0,6749
0,7231	1468,9	57,60	5	81,518612	108,322	64,071811	-64,9328339	0,7231
0,7713	1480,8	45,70	5	82,079111	110,572	61,821885	-67,1827598	0,7713
0,8195	1492,6	33,90	5	82,605624	113,187	59,206859	-69,7977859	0,8195
0,8677	1505,4	30,00	5	83,102037	114,765	57,629067	-71,3755775	0,8677
0,9159	1518,6	30,00	5	83,571606	115,592	56,802042	-72,2026029	0,9159
0,9641	1531,2	30,00	5	84,017086	116,377	56,017443	-72,9872022	0,9641
1,0123	1524	30,00	5	84,44083	117,123	55,271128	-73,7335166	1,0123
1,0605	1516	30,00	5	84,844858	117,835	54,559535	-74,4451093	1,0605
1,1087	1507,1	30,00	5	85,230926	118,514	53,879577	-75,1250679	1,1087
1,1569	1487,6	30,00	5	85,600561	119,165	53,228559	-75,7760857	1,1569
1,2051	1465,6	30,00	5	85,955107	119,79	52,604119	-76,4005261	1,2051

1,2533	1441,2	30,00	5	86,295746	120,39	52,004171	-77,0004742	1,2533
1,3015	1418,3	30,00	5	86,623528	120,967	51,426866	-77,577779	1,3015
1,3497	1395,3	35,66	5	86,93939	120,422	51,971755	-77,0328896	1,3497
1,3979	1372,9	40,79	5	87,244167	120,09	52,304472	-76,700173	1,3979
1,4461	1355,4	46,22	5	87,538611	119,788	52,605813	-76,3988316	1,4461
1,4943	1337,6	51,92	5	87,823401	119,516	52,878384	-76,1262606	1,4943
1,5425	1319,1	61,30	5	88,099148	118,894	53,499865	-75,5047801	1,5425
1,5907	1299,4	67,68	5	88,36641	118,687	53,706998	-75,2976466	1,5907
1,6389	1279,3	74,33	4,5	88,625694	118,494	53,399961	-75,6046834	1,6389
1,6871	1259,3	81,22	4,5	88,877461	118,316	53,578217	-75,4264274	1,6871
1,7353	1240,9	92,28	4,5	89,122136	117,859	54,035194	-74,9694511	1,7353
1,7835	1223,2	99,56	4	89,360107	117,73	53,6639	-75,3407448	1,7835
1,8317	1208,1	106,85	4	89,591732	117,621	53,772766	-75,2318785	1,8317
1,88	1194,8	114,10	4	89,817802	117,533	53,860859	-75,1437858	1,88
1,9282	1181,5	125,45	4	90,037686	117,233	54,161013	-74,8436314	1,9282
1,9764	1162,9	132,89	4	90,252142	117,173	54,22137	-74,7832749	1,9764
2,0246	1133,5	140,77	4	90,461429	117,101	54,293126	-74,7115191	2,0246
2,0728	1104,3	149,05	3,5	90,665793	117,022	53,872511	-75,1321335	2,0728
2,121	1075,7	161,87	3,5	90,865458	116,756	54,13854	-74,8661046	2,121
2,1692	1048,9	170,89	3,5	91,060637	116,675	54,21894	-74,7857043	2,1692
2,2174	1023,3	180,13	3,5	91,251526	116,597	54,297468	-74,707177	2,2174
2,2656	1014,6	189,09	3,5	91,438309	116,537	54,356788	-74,6478569	2,2656
2,3138	1026,7	200,00	3,5	91,621161	116,417	54,477361	-74,5272836	2,3138
2,362	1038,5	200,00	3,5	91,800243	116,684	54,210277	-74,794368	2,362
2,4102	1050,3	200,00	4	91,975706	116,945	54,448588	-74,5560569	2,4102
2,4584	1059,5	200,00	4	92,147696	117,202	54,192081	-74,812564	2,4584
2,5066	1066,9	200,00	4	92,316345	117,453	53,940554	-75,0640904	2,5066
2,5548	1070,1	200,00	4	92,481783	117,7	53,693819	-75,3108259	2,5548
2,603	1071,4	200,00	4	92,644128	117,942	53,451695	-75,5529496	2,603
2,6512	1073,6	200,00	4	92,803495	118,18	53,214014	-75,7906307	2,6512
2,6994	1077,4	200,00	4,5	92,95999	118,413	53,480615	-75,5240294	2,6994
2,7476	1082,9	200,00	4,5	93,113715	118,643	53,251348	-75,7532973	2,7476
2,7958	1089,6	200,00	4,5	93,264767	118,868	53,026067	-75,9785779	2,7958
2,844	1091,8	200,00	4,5	93,413237	119,089	52,804637	-76,2000077	2,844
2,8922	1090,5	200,00	4,5	93,559211	119,307	52,586929	-76,4177161	2,8922
2,9404	1088,8	200,00	5	93,702773	119,521	52,872819	-76,131826	2,9404
2,9886	1096,5	200,00	5	93,844001	119,732	52,66219	-76,3424546	2,9886
3,0368	1109,4	200,00	5	93,982969	119,939	52,454932	-76,5497132	3,0368
3,0851	1121,9	200,00	5	94,12003	120,144	52,250517	-76,7541279	3,0851
3,1333	1128,5	200,00	5	94,254684	120,344	52,049691	-76,9549535	3,1333
3,1815	1133,9	200,00	5	94,387283	120,542	51,851931	-77,1527133	3,1815
3,2297	1140,3	200,00	5	94,517888	120,737	51,657145	-77,3474994	3,2297
3,2779	1145,5	200,00	5	94,646559	120,929	51,465245	-77,5394	3,2779
3,3261	1151,4	200,00	5	94,773351	121,118	51,276146	-77,7284993	3,3261
3,3743	1158,6	200,00	5	94,898319	121,304	51,089767	-77,9148778	3,3743
3,4225	1172,1	200,00	5	95,021514	121,488	50,906032	-78,0986128	3,4225
3,4707	1185,4	200,00	5	95,142986	121,669	50,724866	-78,2797783	3,4707
3,5189	1197,1	200,00	5	95,262783	121,848	50,5462	-78,458445	3,5189

3,5671	1180,6	200,00	5	95,38095	122,024	50,369964	-78,6346811	3,5671
3,6153	1156,4	200,00	5	95,497532	122,198	50,196093	-78,8085517	3,6153
3,6635	1124,7	200,00	5	95,612569	122,37	50,024525	-78,9801194	3,6635
3,7117	1088,2	200,00	5	95,726102	122,539	49,8552	-79,1494446	3,7117
3,7599	1051,8	200,00	5	95,838171	122,706	49,68806	-79,3165851	3,7599
3,8081	1015,6	200,00	5	95,948812	122,871	49,523048	-79,4815965	3,8081
3,8563	977,3	200,00	5	96,058061	123,034	49,360112	-79,6445323	3,8563
3,9045	939,3	200,00	4,5	96,165953	123,195	48,6992	-80,3054443	3,9045
3,9527	901,8	200,00	4,5	96,272522	123,354	48,540263	-80,4643819	3,9527
4,0009	872,2	200,00	4,5	96,377799	123,511	48,383252	-80,6213932	4,0009
4,0491	841,9	200,00	4	96,481815	123,666	47,728121	-81,2765241	4,0491
4,0973	811,5	200,00	4	96,5846	123,819	47,574825	-81,4298193	4,0973
4,1455	787,7	200,00	4	96,686183	123,971	47,423323	-81,5813217	4,1455
4,1937	765	200,00	4	96,786592	124,12	47,273572	-81,7310726	4,1937
4,2419	742,9	200,00	4	96,885853	124,269	47,125533	-81,8791122	4,2419
4,2902	720,5	200,00	4	96,984196	124,415	46,978864	-82,0257811	4,2902
4,3384	698,6	200,00	4	97,081237	124,56	46,834135	-82,1705094	4,3384
4,3866	675,1	200,00	4	97,177205	124,703	46,691006	-82,3136385	4,3866
4,4348	644,4	200,00	4	97,272126	124,845	46,549441	-82,4552036	4,4348
4,483	614,3	200,00	3,5	97,36602	124,985	45,909407	-83,0952383	4,483
4,5312	584,9	200,00	3,5	97,458909	125,123	45,770869	-83,2337754	4,5312
4,5794	555,6	200,00	3,5	97,550816	125,26	45,633798	-83,3708466	4,5794
4,6276	526,7	200,00	3,5	97,641761	125,396	45,498162	-83,5064826	4,6276
4,6758	500,1	200,00	3,5	97,731763	125,53	45,363932	-83,6407132	4,6758
4,724	477,5	200,00	3,5	97,820843	125,663	45,231078	-83,7735671	4,724
4,7722	453,1	200,00	3,5	97,909018	125,794	45,099572	-83,9050723	4,7722
4,8204	426,8	200,00	3,5	97,996306	125,925	44,969389	-84,035256	4,8204
4,8686	403,9	200,00	3,5	98,082727	126,054	44,8405	-84,1641444	4,8686
4,9168	381,5	200,00	3,5	98,168296	126,181	44,712882	-84,291763	4,9168
4,965	363,5	200,00	3,5	98,25303	126,308	44,586508	-84,4181367	4,965
5,0132	354,8	200,00	3,5	98,336945	126,433	44,461355	-84,5432894	5,0132
5,0614	349,1	200,00	3,5	98,420058	126,557	44,3374	-84,6672446	5,0614
5,1096	351,9	200,00	3,5	98,502383	126,679	44,21462	-84,7900249	5,1096
5,1578	364,2	200,00	3,5	98,583935	126,801	44,092992	-84,9116524	5,1578
5,206	377,6	200,00	3,5	98,664728	126,922	43,972496	-85,0321486	5,206
5,2542	388,1	200,00	3,5	98,744777	127,041	43,85311	-85,1515343	5,2542
5,3024	394,4	200,00	3,5	98,824095	127,159	43,734815	-85,2698298	5,3024
5,3506	400,3	200,00	3,5	98,902694	127,276	43,61759	-85,3870547	5,3506
5,3988	397,8	200,00	3,5	98,98059	127,393	43,501416	-85,5032285	5,3988
5,447	385,7	200,00	3,5	99,057792	127,508	43,386275	-85,6183696	5,447
5,4952	372	200,00	3,5	99,134315	127,622	43,272148	-85,7324963	5,4952
5,5435	354,6	200,00	3,5	99,210326	127,735	43,158785	-85,84586	5,5435
5,5917	334,6	200,00	3,5	99,285522	127,847	43,046636	-85,9580086	5,5917
5,6399	314,9	200,00	3,5	99,360073	127,959	42,93545	-86,0691946	5,6399
5,6881	299	200,00	3,5	99,433989	128,069	42,82521	-86,1794345	5,6881
5,7363	285,4	200,00	3,5	99,507282	128,178	42,715901	-86,2887441	5,7363
5,7845	272,1	200,00	3,5	99,579961	128,287	42,607506	-86,397139	5,7845
5,8327	264,5	200,00	3,5	99,652038	128,394	42,50001	-86,5046345	5,8327

5,8809	258,1	200,00	3,5	99,723521	128,501	42,393399	-86,6112453	5,8809
5,9291	249,9	200,00	3,5	99,79442	128,606	42,287659	-86,7169859	5,9291
5,9773	238,9	200,00	3,5	99,864746	128,711	42,182774	-86,8218703	5,9773
6,0255	225,9	200,00	3,5	99,934507	128,815	42,078732	-86,9259124	6,0255
6,0737	208,5	200,00	3,5	100,00371	128,919	41,975519	-87,0291255	6,0737
6,1219	187,8	200,00	3,5	100,07237	129,021	41,873122	-87,1315227	6,1219
6,1701	167,8	200,00	3,5	100,14049	129,123	41,771528	-87,2331169	6,1701
6,2183	150,1	200,00	3,5	100,20808	129,223	41,670724	-87,3339206	6,2183
6,2665	139,3	200,00	3,5	100,27515	129,323	41,570699	-87,4339458	6,2665
6,3147	131	200,00	3,5	100,3417	129,423	41,47144	-87,5332047	6,3147
6,3629	123,9	200,00	3,5	100,40775	129,521	41,372936	-87,6317088	6,3629
6,4111	118,3	200,00	3,5	100,4733	129,619	41,275175	-87,7294695	6,4111
6,4593	114,6	200,00	3,5	100,53835	129,716	41,178147	-87,8264979	6,4593
6,5075	112,8	200,00	3,5	100,60293	129,812	41,08184	-87,922805	6,5075
6,5557	110,9	200,00	3,5	100,66703	129,908	40,986243	-88,0184014	6,5557
6,6039	109,2	200,00	3,5	100,73065	130,003	40,891347	-88,1132976	6,6039
6,6521	106,9	200,00	3,5	100,79382	130,097	40,797141	-88,2075036	6,6521
6,7003	84,5	200,00	3,5	100,85653	130,19	40,703615	-88,3010294	6,7003
6,7486	61,3	200,00	3,5	100,91892	130,283	40,610568	-88,3940768	6,7486
6,7968	38,1	200,00	3,5	100,98073	130,376	40,518375	-88,4862701	6,7968
6,845	29,1	200,00	3,5	101,04211	130,467	40,426833	-88,5778119	6,845
6,8932	19,8	200,00	3,5	101,10306	130,558	40,335933	-88,6687113	6,8932
6,9414	10,5	200,00	3,5	101,16359	130,648	40,245667	-88,7589773	6,9414
6,9896	8,4	200,00	3,5	101,22369	130,738	40,156026	-88,8486187	6,9896
7,0378	6,4	200,00	3,5	101,28338	130,827	40,067001	-88,9376441	7,0378
7,086	4,4	200,00	3,5	101,34267	130,915	39,978583	-89,0260618	7,086
7,1342	3,1	200,00	3,5	101,40155	131,003	39,890765	-89,1138801	7,1342
7,1824	1,6	200,00	3,5	101,46004	131,091	39,803538	-89,2011071	7,1824
7,2306	0	200,00	3,5	101,51813	131,177	39,716894	-89,2877507	7,2306
7,2788	0	200,00	3,5	101,57584	131,263	39,630826	-89,3738186	7,2788
7,327	0	200,00	3,5	101,63317	131,349	39,545326	-89,4593185	7,327
7,3752	0	200,00	3,5	101,69012	131,434	39,460387	-89,5442577	7,3752
7,4234	0	200,00	3,5	101,7467	131,518	39,376001	-89,6286437	7,4234
7,4716	0	200,00	3,5	101,80292	131,602	39,292161	-89,7124834	7,4716
7,5198	0	200,00	4	101,85877	131,685	39,708861	-89,2957841	7,5198
7,568	0	200,00	4	101,91427	131,768	39,626092	-89,3785525	7,568
7,6162	0	200,00	4	101,96941	131,85	39,543849	-89,4607955	7,6162
7,6644	0	200,00	4	102,02421	131,932	39,462125	-89,5425196	7,6644
7,7126	0	200,00	4	102,07866	132,013	39,380913	-89,6237314	7,7126
7,7608	0	200,00	4	102,13277	132,094	39,300208	-89,7044372	7,7608
7,809	0	200,00	4	102,18655	132,174	39,220001	-89,7846433	7,809
7,8572	0	200,00	4	102,24	132,254	39,140289	-89,8643559	7,8572
7,9054	0	200,00	4	102,29312	132,333	39,061064	-89,943581	7,9054
7,9536	0	200,00	4	102,34592	132,412	38,98232	-90,0223245	7,9536
8,0019	0	200,00	4	102,39851	132,49	38,903891	-90,1007541	8,0019
8,0501	0	200,00	4	102,45067	132,568	38,826094	-90,1785508	8,0501
8,0983	0	200,00	4	102,50252	132,645	38,748762	-90,2558831	8,0983
8,1465	0	200,00	4	102,55407	132,722	38,671888	-90,3327565	8,1465

8,1947	0	200,00	4	102,60531	132,799	38,595468	-90,4091764	8,1947
8,2429	0	200,00	4	102,65625	132,875	38,519497	-90,4851482	8,2429
8,2911	0	200,00	4	102,70689	132,95	38,443968	-90,5606769	8,2911
8,3393	0	200,00	4	102,75724	133,025	38,368877	-90,6357679	8,3393
8,3875	0	200,00	4	102,8073	133,1	38,294219	-90,7104261	8,3875
8,4357	0	200,00	4	102,85707	133,174	38,219988	-90,7846565	8,4357
8,4839	0	200,00	4	102,90656	133,248	38,146181	-90,858464	8,4839
8,5321	0	200,00	4	102,95576	133,321	38,072791	-90,9318533	8,5321
8,5803	0	200,00	4	103,00469	133,394	37,999816	-91,0048292	8,5803
8,6285	0	200,00	4	103,05335	133,467	37,927249	-91,0773963	8,6285
8,6767	0	200,00	4	103,10174	133,539	37,855086	-91,1495591	8,6767
8,7249	0	200,00	4	103,14985	133,611	37,783323	-91,2213222	8,7249
8,7731	0	200,00	4	103,19771	133,682	37,711955	-91,2926899	8,7731
8,8213	0	200,00	4	103,2453	133,753	37,640978	-91,3636666	8,8213
8,8695	0	200,00	4	103,29263	133,824	37,570388	-91,4342566	8,8695
8,9177	0	200,00	4	103,3397	133,894	37,500181	-91,5044639	8,9177
8,9659	0	200,00	4	103,38652	133,964	37,430352	-91,5742928	8,9659
9,0141	0	200,00	4	103,43309	134,033	37,360897	-91,6437473	9,0141
9,0623	0	200,00	4	103,47941	134,102	37,291813	-91,7128315	9,0623
9,1105	0	200,00	4	103,52549	134,171	37,223096	-91,7815491	9,1105
9,1587	0	200,00	4,5	103,57132	134,239	37,654741	-91,3499042	9,1587
9,207	0	200,00	4,5	103,61701	134,307	37,586604	-91,4180411	9,207
9,2552	0	200,00	4,5	103,66236	134,375	37,518963	-91,4856816	9,2552
9,3034	0	200,00	4,5	103,70748	134,442	37,451674	-91,5529708	9,3034
9,3516	0	200,00	4,5	103,75236	134,509	37,384733	-91,6199122	9,3516
9,3998	0	200,00	4,5	103,79702	134,576	37,318135	-91,6865095	9,3998
9,448	0	200,00	4,5	103,84144	134,642	37,251879	-91,7527661	9,448
9,4962	0	200,00	4,5	103,88564	134,708	37,185959	-91,8186856	9,4962
9,5444	0	200,00	4,5	103,92962	134,774	37,120373	-91,8842713	9,5444
9,5926	0	200,00	4,5	103,97337	134,839	37,055118	-91,9495267	9,5926
9,6408	0	200,00	4,5	104,01691	134,904	36,99019	-92,014455	9,6408

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Perfil Topográfico Estación Castillo Negro 20°



