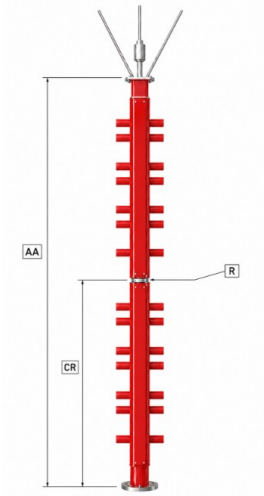
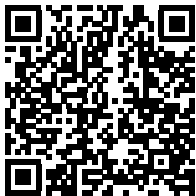


UHF broadcast antenna with Circular or Elliptical polarization, optimized for up to 3 adjacent channels, suitable for digital or mixed digital/analog transmission. Features variable omnidirectional, cardioid, or directional diagrams with electric tilt/null fill options. Designed for side or top tower installation, it boasts a durable brass/copper structure with silver-plated internal connections, anticorrosive white epoxy finish, and a protective radome, with optional pressurization.



Características elétricas

Item	Valor
Ganho cadastrado (referência)	0.00 dBd
HPBW horizontal	78.10°
HPBW vertical	46.81°
Faixa de frequência	470.00 – 806.00 MHz
Polarização	horizontal
Fabricante	EFTX Broadcast & Telecom
Categoria	TV
Frequency Range	470 to 806 MHz (Channels 14-69)
Bandwidth	6, 12, or 18 MHz
Impedance	50 ohms
VSWR	<1.1:1
Input Connector Types	N-Female, DIN 7 1/16", EIA 7/8", EIA 1 5/8", EIA 3 1/8", EIA 4 1/16"
Max Input Power (Analog)	0.3 kW (N-Female, 1 Fenda) to 30.0 kW (EIA 4 1/16", 4-16 Fendas)
Max Input Power (Digital)	0.15 kW (N-Female, 1 Fenda) to 15.0 kW (EIA 4 1/16", 4-16 Fendas)
Electrical Protection	Via antenna structure

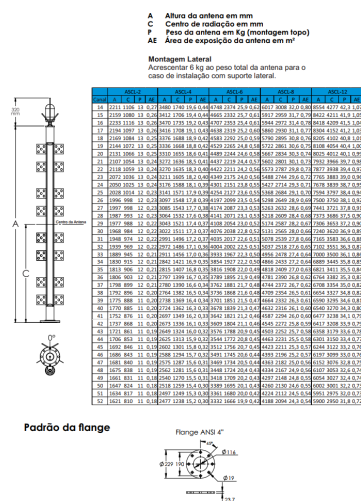


Validar autenticidade · 1.2

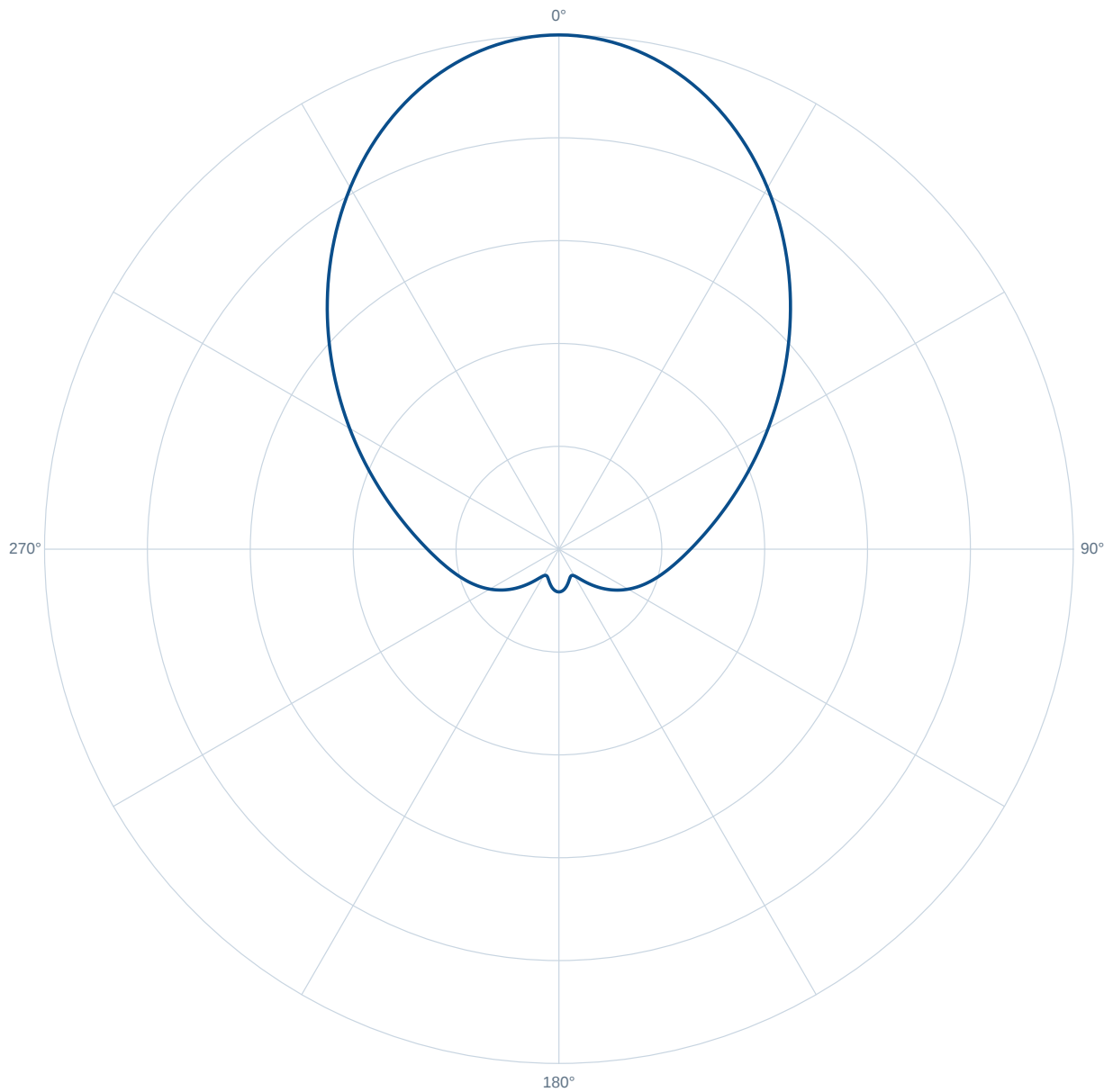
Página 1 · Código CEBC4654

Características mecânicas

Item	Valor
Horizontal Half-Power Beamwidth (Azimuth Patterns)	360° (Omni), 220°, 180°, 140°, 90° (by diagram type)
Vertical Half-Power Beamwidth (Digital)	2.5° to 59° (depending on number of slots)
Wind Resistance	180 km/h
Dimensions (Height x Diameter)	Varies by configuration (see tables on page 2)
Exposed Area	Varies by configuration (see tables on page 2)
Wind Load	Varies by configuration (see tables on page 2)
Weight	Varies by configuration (see tables on page 2)



ASCLN · Azimute 80 graus



Parâmetros da configuração

HPBW HORIZONTAL

78.10°

GANHO

0.00 dBd

FRENTE/COSTAS

21.61 dB

RIPPLE

5.83 dB

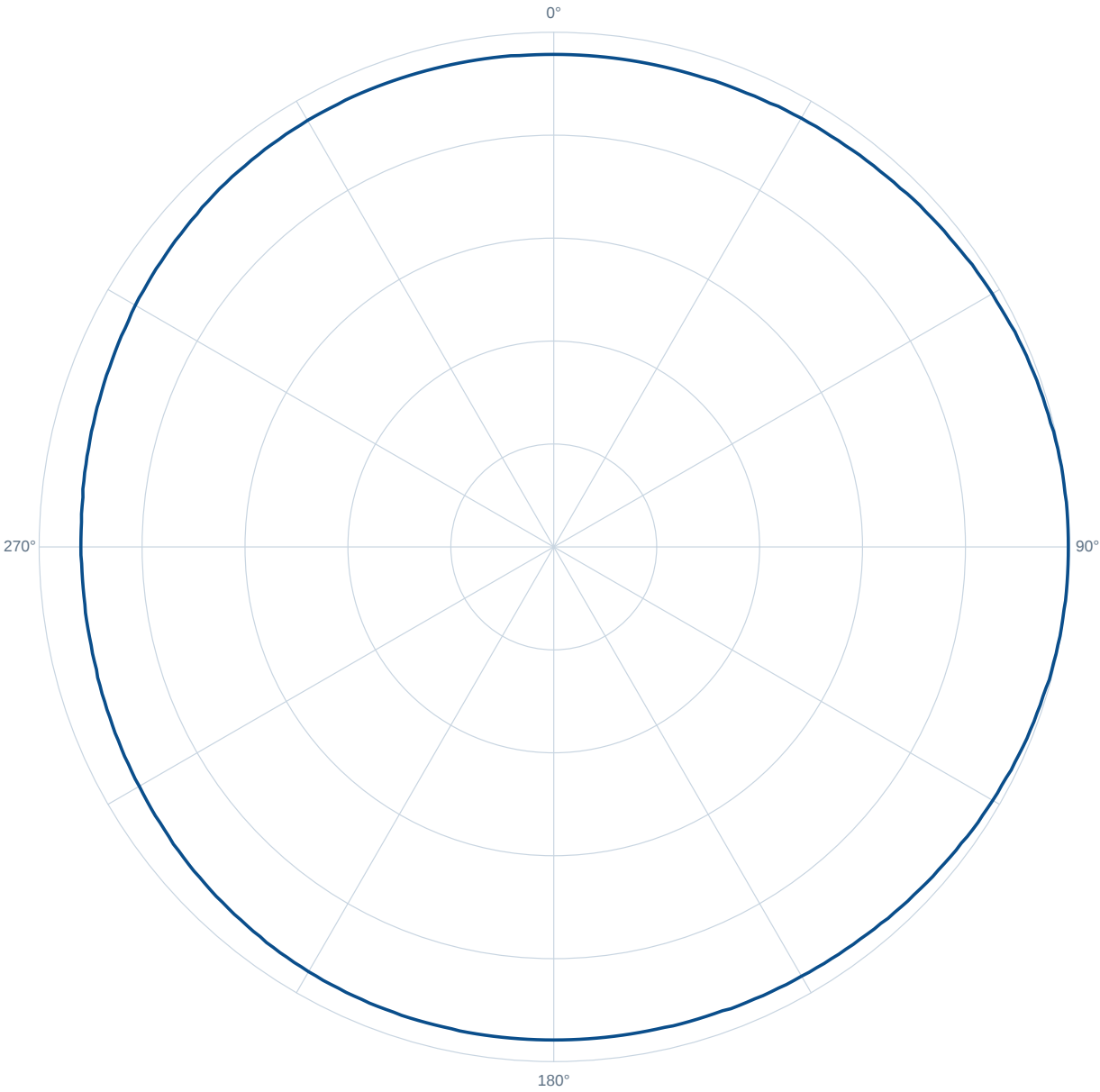
Tabela completa - Azimute



ASCLN - Azimute 80 graus

Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB
0°	1.0000	-0.00	73°	0.3551	8.99	146°	0.0677	23.39	219°	0.0820	21.72	292°	0.3952	8.06
1°	0.9998	0.00	74°	0.3477	9.18	147°	0.0653	23.70	220°	0.0853	21.38	293°	0.4038	7.88
2°	0.9990	0.01	75°	0.3406	9.36	148°	0.0632	23.99	221°	0.0887	21.04	294°	0.4127	7.69
3°	0.9978	0.02	76°	0.3336	9.54	149°	0.0614	24.24	222°	0.0921	20.71	295°	0.4217	7.50
4°	0.9962	0.03	77°	0.3268	9.71	150°	0.0599	24.45	223°	0.0956	20.39	296°	0.4309	7.31
5°	0.9940	0.05	78°	0.3202	9.89	151°	0.0587	24.63	224°	0.0992	20.07	297°	0.4404	7.12
6°	0.9914	0.08	79°	0.3139	10.06	152°	0.0578	24.76	225°	0.1028	19.76	298°	0.4500	6.94
7°	0.9883	0.10	80°	0.3077	10.24	153°	0.0572	24.85	226°	0.1064	19.46	299°	0.4598	6.75
8°	0.9848	0.13	81°	0.3017	10.41	154°	0.0569	24.90	227°	0.1100	19.17	300°	0.4698	6.56
9°	0.9808	0.17	82°	0.2959	10.58	155°	0.0570	24.88	228°	0.1137	18.88	301°	0.4799	6.38
10°	0.9763	0.21	83°	0.2903	10.74	156°	0.0573	24.84	229°	0.1173	18.61	302°	0.4902	6.19
11°	0.9715	0.25	84°	0.2849	10.91	157°	0.0579	24.75	230°	0.1209	18.35	303°	0.5007	6.01
12°	0.9662	0.30	85°	0.2796	11.07	158°	0.0587	24.63	231°	0.1245	18.10	304°	0.5114	5.82
13°	0.9605	0.35	86°	0.2745	11.23	159°	0.0598	24.47	232°	0.1280	17.86	305°	0.5222	5.64
14°	0.9543	0.41	87°	0.2696	11.39	160°	0.0610	24.29	233°	0.1316	17.61	306°	0.5331	5.46
15°	0.9478	0.47	88°	0.2649	11.54	161°	0.0623	24.11	234°	0.1351	17.39	307°	0.5442	5.28
16°	0.9409	0.53	89°	0.2603	11.69	162°	0.0638	23.90	235°	0.1385	17.17	308°	0.5554	5.11
17°	0.9336	0.60	90°	0.2558	11.84	163°	0.0653	23.70	236°	0.1419	16.96	309°	0.5667	4.93
18°	0.9260	0.67	91°	0.2515	11.99	164°	0.0669	23.49	237°	0.1453	16.75	310°	0.5781	4.76
19°	0.9180	0.74	92°	0.2473	12.14	165°	0.0685	23.29	238°	0.1487	16.55	311°	0.5896	4.59
20°	0.9097	0.82	93°	0.2433	12.28	166°	0.0700	23.10	239°	0.1520	16.36	312°	0.6012	4.42
21°	0.9010	0.91	94°	0.2394	12.42	167°	0.0716	22.90	240°	0.1553	16.18	313°	0.6129	4.25
22°	0.8921	0.99	95°	0.2355	12.56	168°	0.0731	22.72	241°	0.1585	16.00	314°	0.6247	4.09
23°	0.8828	1.08	96°	0.2318	12.70	169°	0.0746	22.55	242°	0.1617	15.83	315°	0.6365	3.92
24°	0.8733	1.18	97°	0.2282	12.83	170°	0.0759	22.40	243°	0.1649	15.66	316°	0.6484	3.76
25°	0.8635	1.27	98°	0.2247	12.97	171°	0.0772	22.25	244°	0.1680	15.49	317°	0.6602	3.61
26°	0.8535	1.38	99°	0.2212	13.10	172°	0.0784	22.11	245°	0.1711	15.33	318°	0.6721	3.45
27°	0.8432	1.48	100°	0.2179	13.23	173°	0.0795	21.99	246°	0.1742	15.18	319°	0.6841	3.30
28°	0.8327	1.59	101°	0.2146	13.37	174°	0.0804	21.89	247°	0.1772	15.03	320°	0.6960	3.15
29°	0.8221	1.70	102°	0.2113	13.50	175°	0.0812	21.81	248°	0.1803	14.88	321°	0.7078	3.00
30°	0.8112	1.82	103°	0.2081	13.63	176°	0.0819	21.73	249°	0.1833	14.74	322°	0.7197	2.86
31°	0.8002	1.94	104°	0.2050	13.76	177°	0.0824	21.68	250°	0.1864	14.59	323°	0.7315	2.72
32°	0.7890	2.06	105°	0.2019	13.90	178°	0.0828	21.64	251°	0.1894	14.45	324°	0.7432	2.58
33°	0.7776	2.18	106°	0.1988	14.03	179°	0.0830	21.62	252°	0.1924	14.32	325°	0.7549	2.44
34°	0.7662	2.31	107°	0.1957	14.17	180°	0.0831	21.61	253°	0.1954	14.18	326°	0.7664	2.31
35°	0.7546	2.45	108°	0.1927	14.30	181°	0.0830	21.62	254°	0.1985	14.04	327°	0.7779	2.18
36°	0.7429	2.58	109°	0.1897	14.44	182°	0.0828	21.64	255°	0.2016	13.91	328°	0.7892	2.06
37°	0.7312	2.72	110°	0.1866	14.58	183°	0.0824	21.68	256°	0.2047	13.78	329°	0.8004	1.93
38°	0.7194	2.86	111°	0.1836	14.72	184°	0.0819	21.73	257°	0.2078	13.65	330°	0.8115	1.81
39°	0.7076	3.00	112°	0.1806	14.87	185°	0.0812	21.81	258°	0.2110	13.51	331°	0.8223	1.70
40°	0.6957	3.15	113°	0.1775	15.02	186°	0.0804	21.89	259°	0.2143	13.38	332°	0.8330	1.59
41°	0.6838	3.30	114°	0.1745	15.16	187°	0.0795	21.99	260°	0.2176	13.25	333°	0.8435	1.48
42°	0.6719	3.45	115°	0.1714	15.32	188°	0.0784	22.11	261°	0.2210	13.11	334°	0.8538	1.37
43°	0.6600	3.61	116°	0.1683	15.48	189°	0.0772	22.25	262°	0.2244	12.98	335°	0.8638	1.27
44°	0.6481	3.77	117°	0.1651	15.65	190°	0.0760	22.38	263°	0.2279	12.85	336°	0.8736	1.17
45°	0.6362	3.93	118°	0.1620	15.81	191°	0.0746	22.55	264°	0.2316	12.71	337°	0.8831	1.08
46°	0.6244	4.09	119°	0.1588	15.98	192°	0.0731	22.72	265°	0.2353	12.57	338°	0.8923	0.99
47°	0.6127	4.26	120°	0.1555	16.17	193°	0.0716	22.90	266°	0.2391	12.43	339°	0.9013	0.90
48°	0.6010	4.42	121°	0.1522	16.35	194°	0.0700	23.10	267°	0.2430	12.29	340°	0.9099	0.82
49°	0.5894	4.59	122°	0.1489	16.54	195°	0.0685	23.29	268°	0.2471	12.14	341°	0.9182	0.74
50°	0.5779	4.76	123°	0.1456	16.74	196°	0.0669	23.49	269°	0.2513	12.00	342°	0.9262	0.67
51°	0.5665	4.94	124°	0.1422	16.94	197°	0.0653	23.70	270°	0.2556	11.85	343°	0.9338	0.59
52°	0.5552	5.11	125°	0.1388	17.15	198°	0.0638	23.90	271°	0.2600	11.70	344°	0.9411	0.53
53°	0.5440	5.29	126°	0.1353	17.37	199°	0.0623	24.11	272°	0.2646	11.55	345°	0.9480	0.46
54°	0.5329	5.47	127°	0.1318	17.60	200°	0.0610	24.29	273°	0.2694	11.39	346°	0.9545	0.40
55°	0.5220	5.65	128°	0.1283	17.84	201°	0.0597	24.48	274°	0.2743	11.24	347°	0.9606	0.35
56°	0.5112	5.83	129°	0.1247	18.08	202°	0.0587	24.63	275°	0.2794	11.08	348°	0.9663	0.30
57°	0.5006	6.01	130°	0.1211	18.34	203°	0.0579	24.75	276°	0.2847	10.91	349°	0.9716	0.25
58°	0.4901	6.19	131°	0.1175	18.60	204°	0.0573	24.84	277°	0.2901	10.75	350°	0.9765	0.21
59°	0.4798	6.38	132°	0.1139	18.87	205°	0.0569	24.90	278°	0.2957	10.58	351°	0.9809	0.17
60°	0.4697	6.56	133°	0.1103	19.15	206°	0.0569	24.90	279°	0.3015	10.41	352°	0.9849	0.13
61°	0.4597	6.75	134°	0.1066	19.44	207°	0.0571	24.87	280°	0.3075	10.24	353°	0.9884	0.10
62°	0.4499	6.94	135°	0.1030	19.74	208°	0.0577	24.78	281°	0.3137	10.07	354°	0.9915	0.07
63°	0.4403	7.13	136°	0.0994	20.05	209°	0.0586	24.64	282°	0.3201	9.89	355°	0.9941	0.05
64°	0.4309	7.31	137°	0.0959	20.36	210°	0.0598	24.47	283°	0.3267	9.72	356°	0.9962	0.03
65°	0.4217	7.50	138°	0.0923	20.70	211°	0.0613	24.25	284°	0.3335	9.54	357°	0.9979	0.02
66°	0.4126	7.69	139°	0.0889	21.02	212°	0.0631	24.00	285°	0.3405	9.36	358°	0.9991	0.01
67°	0.4038	7.88	140°	0.0855	21.36	213°	0.0652	23.72	286°	0.3477	9.18	359°	0.9998	0.00
68°	0.3952	8.06	141°	0.0822	21.70	214°	0.0675	23.41	287°	0.3551	8.99	360°	1.0000	-0.00
69°	0.3868	8.25	142°	0.0790	22.05	215°	0.0700	23.10	288°	0.3627	8.81			
70°	0.3785	8.44	143°	0.0759	22.40	216°	0.0728	22.76	289°	0.3705	8.62			
71°	0.3705	8.62	144°	0.0730	22.73	217°	0.0757	22.42	290°	0.3785	8.44			
72°	0.3627	8.81	145°	0.0702	23.07	218°	0.0788	22.07	291°	0.3867	8.25			

E/Emax de campo normalizado - atenuação positiva em dB



Parâmetros da configuração

HPBW HORIZONTAL

359.00°

GANHO

0.00 dBd

FRENTE/COSTAS

0.59 dB

RIPPLE

0.74 dB

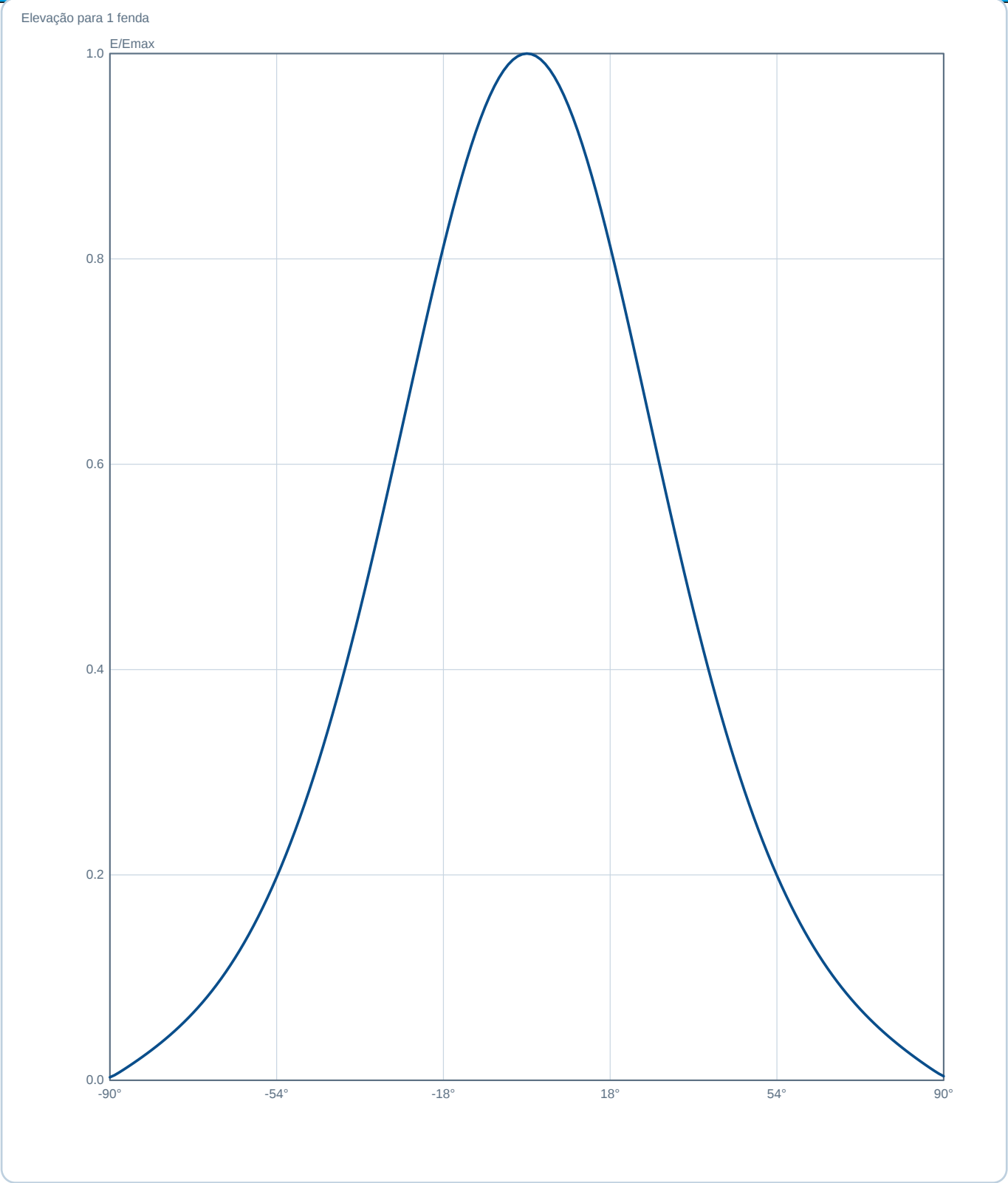
Tabela completa - Azimute



ASCLN - Azimute Omnidirecional

Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB
0°	0.9570	0.38	73°	0.9940	0.05	146°	0.9650	0.31	219°	0.9470	0.47	292°	0.9310	0.62
1°	0.9570	0.38	74°	0.9940	0.05	147°	0.9650	0.31	220°	0.9460	0.48	293°	0.9320	0.61
2°	0.9570	0.38	75°	0.9950	0.04	148°	0.9640	0.32	221°	0.9460	0.48	294°	0.9330	0.60
3°	0.9570	0.38	76°	0.9950	0.04	149°	0.9640	0.32	222°	0.9450	0.49	295°	0.9340	0.59
4°	0.9570	0.38	77°	0.9970	0.03	150°	0.9630	0.33	223°	0.9440	0.50	296°	0.9350	0.58
5°	0.9570	0.38	78°	0.9970	0.03	151°	0.9630	0.33	224°	0.9440	0.50	297°	0.9350	0.58
6°	0.9570	0.38	79°	0.9980	0.02	152°	0.9630	0.33	225°	0.9430	0.51	298°	0.9360	0.57
7°	0.9570	0.38	80°	0.9980	0.02	153°	0.9620	0.34	226°	0.9420	0.52	299°	0.9380	0.56
8°	0.9570	0.38	81°	0.9990	0.01	154°	0.9620	0.34	227°	0.9410	0.53	300°	0.9390	0.55
9°	0.9570	0.38	82°	0.9990	0.01	155°	0.9620	0.34	228°	0.9410	0.53	301°	0.9400	0.54
10°	0.9570	0.38	83°	0.9990	0.01	156°	0.9610	0.35	229°	0.9400	0.54	302°	0.9400	0.54
11°	0.9570	0.38	84°	0.9990	0.01	157°	0.9610	0.35	230°	0.9390	0.55	303°	0.9410	0.53
12°	0.9570	0.38	85°	1.0000	-0.00	158°	0.9610	0.35	231°	0.9380	0.56	304°	0.9420	0.52
13°	0.9570	0.38	86°	1.0000	-0.00	159°	0.9610	0.35	232°	0.9380	0.56	305°	0.9430	0.51
14°	0.9570	0.38	87°	1.0000	-0.00	160°	0.9590	0.36	233°	0.9360	0.57	306°	0.9430	0.51
15°	0.9570	0.38	88°	1.0000	-0.00	161°	0.9590	0.36	234°	0.9350	0.58	307°	0.9440	0.50
16°	0.9570	0.38	89°	1.0000	-0.00	162°	0.9590	0.36	235°	0.9340	0.59	308°	0.9450	0.49
17°	0.9570	0.38	90°	1.0000	-0.00	163°	0.9590	0.36	236°	0.9340	0.59	309°	0.9460	0.48
18°	0.9570	0.38	91°	1.0000	-0.00	164°	0.9590	0.36	237°	0.9330	0.60	310°	0.9460	0.48
19°	0.9580	0.37	92°	1.0000	-0.00	165°	0.9590	0.36	238°	0.9320	0.61	311°	0.9470	0.47
20°	0.9580	0.37	93°	1.0000	-0.00	166°	0.9590	0.36	239°	0.9310	0.62	312°	0.9480	0.46
21°	0.9580	0.37	94°	1.0000	-0.00	167°	0.9580	0.37	240°	0.9300	0.63	313°	0.9480	0.46
22°	0.9580	0.37	95°	1.0000	-0.00	168°	0.9580	0.37	241°	0.9300	0.63	314°	0.9500	0.45
23°	0.9580	0.37	96°	1.0000	-0.00	169°	0.9580	0.37	242°	0.9290	0.64	315°	0.9500	0.45
24°	0.9590	0.36	97°	0.9990	0.01	170°	0.9580	0.37	243°	0.9280	0.65	316°	0.9510	0.44
25°	0.9590	0.36	98°	0.9990	0.01	171°	0.9580	0.37	244°	0.9280	0.65	317°	0.9520	0.43
26°	0.9590	0.36	99°	0.9990	0.01	172°	0.9580	0.37	245°	0.9270	0.66	318°	0.9520	0.43
27°	0.9610	0.35	100°	0.9990	0.01	173°	0.9580	0.37	246°	0.9260	0.67	319°	0.9530	0.42
28°	0.9610	0.35	101°	0.9980	0.02	174°	0.9580	0.37	247°	0.9260	0.67	320°	0.9530	0.42
29°	0.9610	0.35	102°	0.9980	0.02	175°	0.9580	0.37	248°	0.9250	0.68	321°	0.9530	0.42
30°	0.9620	0.34	103°	0.9970	0.03	176°	0.9580	0.37	249°	0.9240	0.69	322°	0.9540	0.41
31°	0.9620	0.34	104°	0.9970	0.03	177°	0.9580	0.37	250°	0.9240	0.69	323°	0.9540	0.41
32°	0.9630	0.33	105°	0.9970	0.03	178°	0.9580	0.37	251°	0.9230	0.70	324°	0.9550	0.40
33°	0.9630	0.33	106°	0.9950	0.04	179°	0.9580	0.37	252°	0.9230	0.70	325°	0.9550	0.40
34°	0.9630	0.33	107°	0.9940	0.05	180°	0.9580	0.37	253°	0.9220	0.71	326°	0.9550	0.40
35°	0.9640	0.32	108°	0.9940	0.05	181°	0.9580	0.37	254°	0.9220	0.71	327°	0.9560	0.39
36°	0.9640	0.32	109°	0.9930	0.06	182°	0.9580	0.37	255°	0.9200	0.72	328°	0.9560	0.39
37°	0.9650	0.31	110°	0.9930	0.06	183°	0.9580	0.37	256°	0.9200	0.72	329°	0.9560	0.39
38°	0.9660	0.30	111°	0.9920	0.07	184°	0.9580	0.37	257°	0.9200	0.72	330°	0.9570	0.38
39°	0.9660	0.30	112°	0.9920	0.07	185°	0.9580	0.37	258°	0.9190	0.73	331°	0.9570	0.38
40°	0.9670	0.29	113°	0.9910	0.08	186°	0.9580	0.37	259°	0.9190	0.73	332°	0.9570	0.38
41°	0.9670	0.29	114°	0.9900	0.09	187°	0.9580	0.37	260°	0.9190	0.73	333°	0.9570	0.38
42°	0.9680	0.28	115°	0.9890	0.10	188°	0.9580	0.37	261°	0.9190	0.73	334°	0.9570	0.38
43°	0.9690	0.27	116°	0.9890	0.10	189°	0.9580	0.37	262°	0.9190	0.73	335°	0.9580	0.37
44°	0.9690	0.27	117°	0.9870	0.11	190°	0.9580	0.37	263°	0.9180	0.74	336°	0.9580	0.37
45°	0.9710	0.26	118°	0.9860	0.12	191°	0.9580	0.37	264°	0.9180	0.74	337°	0.9580	0.37
46°	0.9720	0.25	119°	0.9860	0.12	192°	0.9570	0.38	265°	0.9180	0.74	338°	0.9580	0.37
47°	0.9730	0.24	120°	0.9850	0.13	193°	0.9570	0.38	266°	0.9180	0.74	339°	0.9580	0.37
48°	0.9730	0.24	121°	0.9840	0.14	194°	0.9570	0.38	267°	0.9180	0.74	340°	0.9580	0.37
49°	0.9740	0.23	122°	0.9830	0.15	195°	0.9570	0.38	268°	0.9180	0.74	341°	0.9580	0.37
50°	0.9750	0.22	123°	0.9830	0.15	196°	0.9570	0.38	269°	0.9190	0.73	342°	0.9580	0.37
51°	0.9760	0.21	124°	0.9820	0.16	197°	0.9570	0.38	270°	0.9190	0.73	343°	0.9580	0.37
52°	0.9760	0.21	125°	0.9810	0.17	198°	0.9570	0.38	271°	0.9190	0.73	344°	0.9580	0.37
53°	0.9770	0.20	126°	0.9790	0.18	199°	0.9560	0.39	272°	0.9190	0.73	345°	0.9580	0.37
54°	0.9780	0.19	127°	0.9790	0.18	200°	0.9560	0.39	273°	0.9190	0.73	346°	0.9580	0.37
55°	0.9790	0.18	128°	0.9780	0.19	201°	0.9560	0.39	274°	0.9200	0.72	347°	0.9580	0.37
56°	0.9810	0.17	129°	0.9770	0.20	202°	0.9560	0.39	275°	0.9200	0.72	348°	0.9580	0.37
57°	0.9810	0.17	130°	0.9760	0.21	203°	0.9550	0.40	276°	0.9200	0.72	349°	0.9580	0.37
58°	0.9820	0.16	131°	0.9760	0.21	204°	0.9550	0.40	277°	0.9220	0.71	350°	0.9580	0.37
59°	0.9830	0.15	132°	0.9750	0.22	205°	0.9550	0.40	278°	0.9220	0.71	351°	0.9580	0.37
60°	0.9840	0.14	133°	0.9740	0.23	206°	0.9540	0.41	279°	0.9230	0.70	352°	0.9580	0.37
61°	0.9840	0.14	134°	0.9730	0.24	207°	0.9540	0.41	280°	0.9230	0.70	353°	0.9580	0.37
62°	0.9850	0.13	135°	0.9730	0.24	208°	0.9540	0.41	281°	0.9240	0.69	354°	0.9580	0.37
63°	0.9860	0.12	136°	0.9720	0.25	209°	0.9530	0.42	282°	0.9240	0.69	355°	0.9580	0.37
64°	0.9870	0.11	137°	0.9710	0.26	210°	0.9530	0.42	283°	0.9250	0.68	356°	0.9570	0.38
65°	0.9890	0.10	138°	0.9710	0.26	211°	0.9520	0.43	284°	0.9260	0.67	357°	0.9570	0.38
66°	0.9890	0.10	139°	0.9690	0.27	212°	0.9520	0.43	285°	0.9260	0.67	358°	0.9570	0.38
67°	0.9900	0.09	140°	0.9690	0.27	213°	0.9510	0.44	286°	0.9270	0.66	359°	0.9570	0.38
68°	0.9910	0.08	141°	0.9680	0.28	214°	0.9510	0.44	287°	0.9280	0.65	360°	0.9570	0.38
69°	0.9910	0.08	142°	0.9670	0.29	215°	0.9500	0.45	288°	0.9280	0.65			
70°	0.9920	0.07	143°	0.9670	0.29	216°	0.9500	0.45	289°	0.9290	0.64			
71°	0.9930	0.06	144°	0.9660	0.30	217°	0.9480	0.46	290°	0.9300	0.63			
72°	0.9930	0.06	145°	0.9660	0.30	218°	0.9480	0.46	291°	0.9310	0.62			

E/E_{max} de campo normalizado - atenuação positiva em dB



Parâmetros da configuração			
ELEMENTOS	HPBW VERTICAL	GANHO	PRIMEIRO NULO
N/D	46.81°	0.00 dBd	76.30°

Tabela completa - Elevação

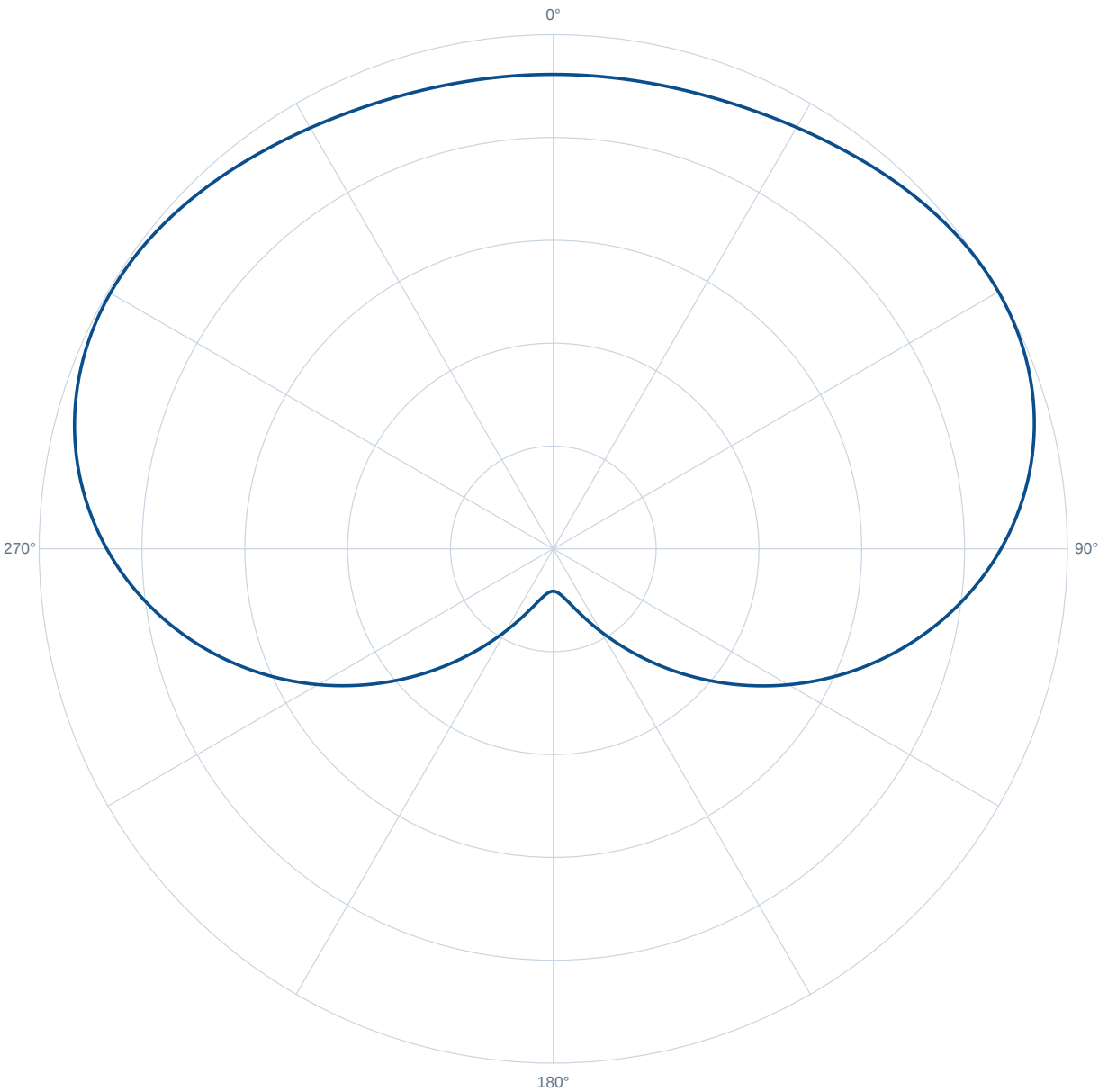


ASCLN · Diagrama de elevação

Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB
-90°	0.0029	50.82	-53.5°	0.2032	13.84	-17°	0.8300	1.62	19.5°	0.7842	2.11	56°	0.1797	14.91
-89.5°	0.0040	48.05	-53°	0.2086	13.61	-16.5°	0.8387	1.53	20°	0.7746	2.22	56.5°	0.1751	15.14
-89°	0.0050	46.06	-52.5°	0.2141	13.39	-16°	0.8475	1.44	20.5°	0.7649	2.33	57°	0.1704	15.37
-88.5°	0.0063	44.00	-52°	0.2197	13.16	-15.5°	0.8559	1.35	21°	0.7551	2.44	57.5°	0.1660	15.60
-88°	0.0076	42.34	-51.5°	0.2255	12.94	-15°	0.8643	1.27	21.5°	0.7452	2.55	58°	0.1615	15.84
-87.5°	0.0091	40.85	-51°	0.2313	12.72	-14.5°	0.8723	1.19	22°	0.7353	2.67	58.5°	0.1572	16.07
-87°	0.0105	39.58	-50.5°	0.2373	12.50	-14°	0.8804	1.11	22.5°	0.7252	2.79	59°	0.1530	16.31
-86.5°	0.0120	38.44	-50°	0.2433	12.28	-13.5°	0.8881	1.03	23°	0.7152	2.91	59.5°	0.1489	16.54
-86°	0.0135	37.43	-49.5°	0.2495	12.06	-13°	0.8957	0.96	23.5°	0.7051	3.04	60°	0.1447	16.79
-85.5°	0.0150	36.50	-49°	0.2557	11.84	-12.5°	0.9030	0.89	24°	0.6949	3.16	60.5°	0.1408	17.03
-85°	0.0165	35.66	-48.5°	0.2622	11.63	-12°	0.9102	0.82	24.5°	0.6847	3.29	61°	0.1369	17.27
-84.5°	0.0180	34.88	-48°	0.2686	11.42	-11.5°	0.9170	0.75	25°	0.6745	3.42	61.5°	0.1331	17.52
-84°	0.0196	34.16	-47.5°	0.2753	11.20	-11°	0.9238	0.69	25.5°	0.6643	3.55	62°	0.1293	17.76
-83.5°	0.0212	33.48	-47°	0.2820	11.00	-10.5°	0.9301	0.63	26°	0.6541	3.69	62.5°	0.1257	18.01
-83°	0.0228	32.85	-46.5°	0.2889	10.79	-10°	0.9365	0.57	26.5°	0.6439	3.82	63°	0.1221	18.26
-82.5°	0.0244	32.24	-46°	0.2958	10.58	-9.5°	0.9423	0.52	27°	0.6336	3.96	63.5°	0.1187	18.51
-82°	0.0261	31.68	-45.5°	0.3029	10.37	-9°	0.9481	0.46	27.5°	0.6234	4.10	64°	0.1152	18.77
-81.5°	0.0278	31.13	-45°	0.3100	10.17	-8.5°	0.9534	0.41	28°	0.6132	4.25	64.5°	0.1119	19.03
-81°	0.0294	30.62	-44.5°	0.3174	9.97	-8°	0.9587	0.37	28.5°	0.6030	4.39	65°	0.1086	19.29
-80.5°	0.0312	30.12	-44°	0.3248	9.77	-7.5°	0.9634	0.32	29°	0.5929	4.54	65.5°	0.1054	19.54
-80°	0.0329	29.65	-43.5°	0.3324	9.57	-7°	0.9681	0.28	29.5°	0.5828	4.69	66°	0.1022	19.81
-79.5°	0.0347	29.19	-43°	0.3399	9.37	-6.5°	0.9722	0.24	30°	0.5727	4.84	66.5°	0.0992	20.07
-79°	0.0365	28.75	-42.5°	0.3478	9.17	-6°	0.9764	0.21	30.5°	0.5627	4.99	67°	0.0961	20.35
-78.5°	0.0384	28.32	-42°	0.3556	8.98	-5.5°	0.9799	0.18	31°	0.5527	5.15	67.5°	0.0932	20.61
-78°	0.0402	27.91	-41.5°	0.3636	8.79	-5°	0.9835	0.14	31.5°	0.5428	5.31	68°	0.0903	20.89
-77.5°	0.0422	27.50	-41°	0.3716	8.60	-4.5°	0.9864	0.12	32°	0.5330	5.47	68.5°	0.0875	21.16
-77°	0.0441	27.11	-40.5°	0.3799	8.41	-4°	0.9893	0.09	32.5°	0.5232	5.63	69°	0.0847	21.45
-76.5°	0.0461	26.72	-40°	0.3882	8.22	-3.5°	0.9916	0.07	33°	0.5135	5.79	69.5°	0.0820	21.73
-76°	0.0481	26.35	-39.5°	0.3966	8.03	-3°	0.9939	0.05	33.5°	0.5039	5.95	70°	0.0793	22.02
-75.5°	0.0502	25.99	-39°	0.4051	7.85	-2.5°	0.9956	0.04	34°	0.4943	6.12	70.5°	0.0767	22.30
-75°	0.0523	25.63	-38.5°	0.4138	7.66	-2°	0.9973	0.02	34.5°	0.4849	6.29	71°	0.0741	22.60
-74.5°	0.0545	25.28	-38°	0.4225	7.48	-1.5°	0.9983	0.02	35°	0.4755	6.46	71.5°	0.0716	22.90
-74°	0.0566	24.94	-37.5°	0.4313	7.30	-1°	0.9993	0.01	35.5°	0.4662	6.63	72°	0.0692	23.20
-73.5°	0.0589	24.60	-37°	0.4402	7.13	-0.5°	0.9996	0.00	36°	0.4570	6.80	72.5°	0.0668	23.51
-73°	0.0611	24.27	-36.5°	0.4493	6.95	0°	1.0000	-0.00	36.5°	0.4479	6.98	73°	0.0644	23.82
-72.5°	0.0635	23.94	-36°	0.4583	6.78	0.5°	0.9997	0.00	37°	0.4389	7.15	73.5°	0.0621	24.14
-72°	0.0659	23.63	-35.5°	0.4676	6.60	1°	0.9994	0.01	37.5°	0.4300	7.33	74°	0.0598	24.47
-71.5°	0.0683	23.31	-35°	0.4769	6.43	1.5°	0.9985	0.01	38°	0.4212	7.51	74.5°	0.0576	24.79
-71°	0.0708	23.00	-34.5°	0.4863	6.26	2°	0.9975	0.02	38.5°	0.4125	7.69	75°	0.0554	25.13
-70.5°	0.0733	22.69	-34°	0.4957	6.10	2.5°	0.9959	0.04	39°	0.4039	7.87	75.5°	0.0533	25.47
-70°	0.0759	22.39	-33.5°	0.5053	5.93	3°	0.9943	0.05	39.5°	0.3955	8.06	76°	0.0511	25.83
-69.5°	0.0786	22.09	-33°	0.5148	5.77	3.5°	0.9920	0.07	40°	0.3870	8.24	76.5°	0.0491	26.18
-69°	0.0813	21.80	-32.5°	0.5246	5.60	4°	0.9898	0.09	40.5°	0.3788	8.43	77°	0.0470	26.55
-68.5°	0.0841	21.50	-32°	0.5343	5.44	4.5°	0.9869	0.11	41°	0.3706	8.62	77.5°	0.0450	26.93
-68°	0.0869	21.22	-31.5°	0.5441	5.29	5°	0.9840	0.14	41.5°	0.3627	8.81	78°	0.0431	27.32
-67.5°	0.0898	20.93	-31°	0.5540	5.13	5.5°	0.9805	0.17	42°	0.3547	9.00	78.5°	0.0411	27.71
-67°	0.0928	20.65	-30.5°	0.5639	4.98	6°	0.9770	0.20	42.5°	0.3470	9.19	79°	0.0392	28.13
-66.5°	0.0958	20.37	-30°	0.5739	4.82	6.5°	0.9729	0.24	43°	0.3392	9.39	79.5°	0.0374	28.55
-66°	0.0989	20.10	-29.5°	0.5839	4.67	7°	0.9688	0.28	43.5°	0.3317	9.58	80°	0.0355	28.99
-65.5°	0.1021	19.82	-29°	0.5939	4.53	7.5°	0.9641	0.32	44°	0.3242	9.78	80.5°	0.0337	29.45
-65°	0.1053	19.55	-28.5°	0.6040	4.38	8°	0.9594	0.36	44.5°	0.3170	9.98	81°	0.0319	29.92
-64.5°	0.1087	19.28	-28°	0.6141	4.23	8.5°	0.9542	0.41	45°	0.3097	10.18	81.5°	0.0302	30.41
-64°	0.1120	19.01	-27.5°	0.6243	4.09	9°	0.9489	0.46	45.5°	0.3027	10.38	82°	0.0284	30.93
-63.5°	0.1155	18.75	-27°	0.6344	3.95	9.5°	0.9431	0.51	46°	0.2956	10.59	82.5°	0.0267	31.47
-63°	0.1190	18.49	-26.5°	0.6446	3.81	10°	0.9373	0.56	46.5°	0.2888	10.79	83°	0.0250	32.05
-62.5°	0.1227	18.22	-26°	0.6547	3.68	10.5°	0.9310	0.62	47°	0.2820	10.99	83.5°	0.0233	32.64
-62°	0.1264	17.97	-25.5°	0.6649	3.54	11°	0.9247	0.68	47.5°	0.2754	11.20	84°	0.0217	33.29
-61.5°	0.1302	17.71	-25°	0.6751	3.41	11.5°	0.9179	0.74	48°	0.2689	11.41	84.5°	0.0200	33.96
-61°	0.1340	17.46	-24.5°	0.6852	3.28	12°	0.9111	0.81	48.5°	0.2625	11.62	85°	0.0184	34.70
-60.5°	0.1380	17.20	-24°	0.6953	3.16	12.5°	0.9038	0.88	49°	0.2562	11.83	85.5°	0.0168	35.48
-60°	0.1420	16.95	-23.5°	0.7054	3.03	13°	0.8966	0.95	49.5°	0.2501	12.04	86°	0.0152	36.34
-59.5°	0.1462	16.70	-23°	0.7154	2.91	13.5°	0.8889	1.02	50°	0.2440	12.25	86.5°	0.0137	37.27
-59°	0.1504	16.46	-22.5°	0.7254	2.79	14°	0.8812	1.10	50.5°	0.2381	12.47	87°	0.0121	38.31
-58.5°	0.1548	16.21	-22°	0.7353	2.67	14.5°	0.8731	1.18	51°	0.2322	12.68	87.5°	0.0106	39.46
-58°	0.1591	15.97	-21.5°	0.7452	2.55	15°	0.8650	1.26	51.5°	0.2265	12.90	88°	0.0091	40.77
-57.5°	0.1637	15.72	-21°	0.7550	2.44	15.5°	0.8566	1.34	52°	0.2209	13.12	88.5°	0.0077	42.23
-57°	0.1682	15.48	-20.5°	0.7647	2.33	16°	0.8481	1.43	52.5°	0.2154	13.33	89°	0.0063	43.97
-56.5°	0.1730	15.24	-20°	0.7744	2.22	16.5°	0.8393	1.52	53°	0.2100	13.56	89.5°	0.0052	45.75
-56°	0.1777	15.01	-19.5°	0.7839	2.11	17°	0.8306	1.61	53.5°	0.2047	13.78	90°	0.0040	47.99
-55.5°	0.1826	14.77	-19°	0.7934	2.01	17.5°	0.8215	1.71	54°	0.1995	14.00			
-55°	0.1876	14.54	-18.5°	0.8027	1.91	18°	0.8124	1.80	54.5°	0.1944	14.22			
-54.5°	0.1927	14.30	-18°	0.8120	1.81	18.5°	0.8031	1.90	55°	0.1894	14.45			
-54°	0.1979	14.07	-17.5°	0.8210	1.71	19°	0.7937	2.01	55.5°	0.1846	14.68			

E/E_{max} de campo normalizado · atenuação positiva em dB

Azimute selecionado no cardápio de diagramas.



Parâmetros da configuração

HPBW HORIZONTAL

211.57°

GANHO

0.00 dBd

FRENTE/COSTAS

1.22 dB

RIPPLE

5.98 dB

Tabela completa - Azimute

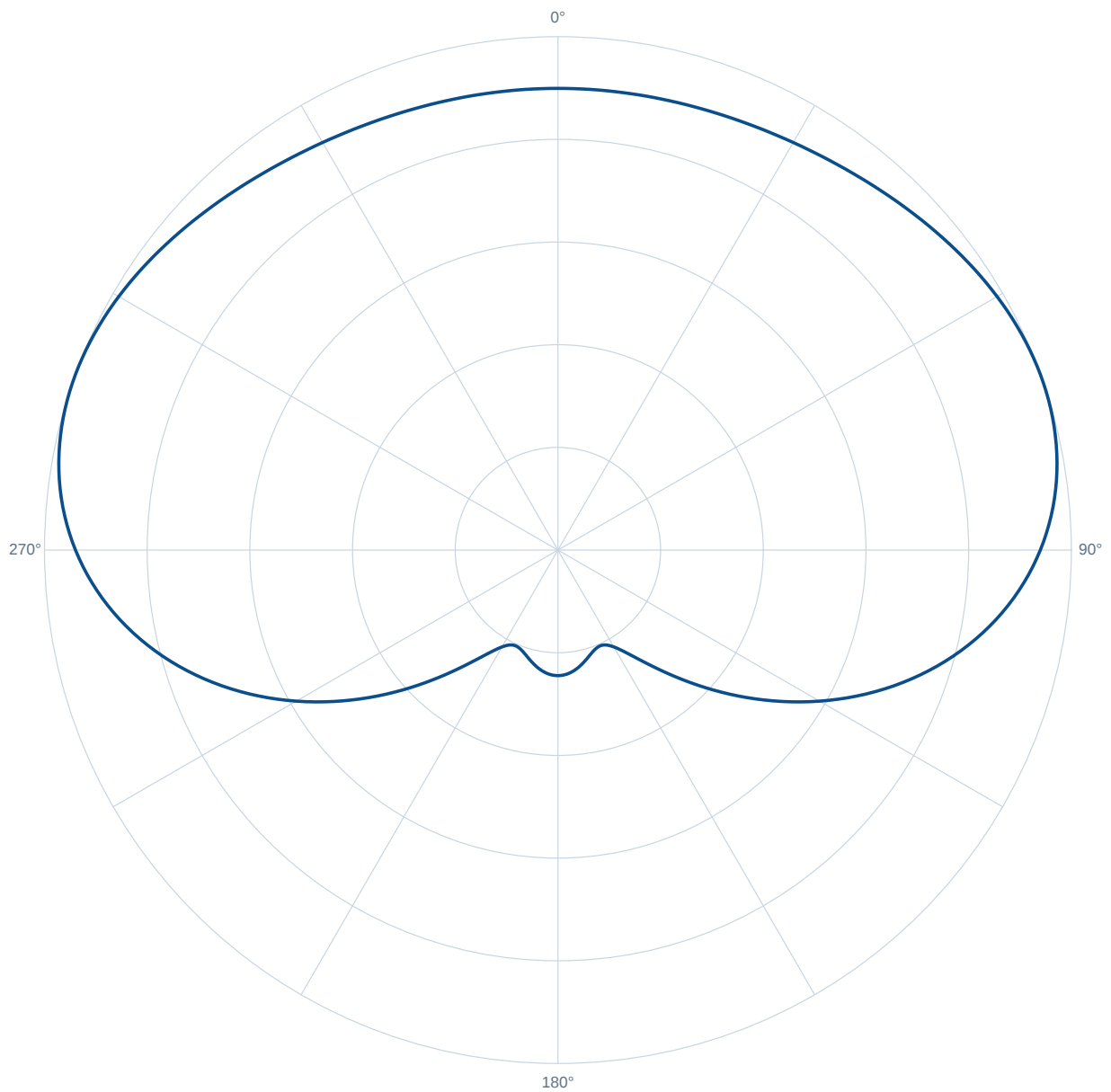


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Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB
0°	0.9227	0.70	73°	0.9767	0.21	146°	0.2204	13.14	219°	0.2681	11.43	292°	0.9862	0.12
1°	0.9228	0.70	74°	0.9728	0.24	147°	0.2114	13.50	220°	0.2789	11.09	293°	0.9882	0.10
2°	0.9228	0.70	75°	0.9687	0.28	148°	0.2027	13.86	221°	0.2899	10.76	294°	0.9899	0.09
3°	0.9229	0.70	76°	0.9642	0.32	149°	0.1943	14.23	222°	0.3011	10.43	295°	0.9914	0.08
4°	0.9230	0.70	77°	0.9595	0.36	150°	0.1862	14.60	223°	0.3126	10.10	296°	0.9926	0.06
5°	0.9231	0.69	78°	0.9544	0.41	151°	0.1785	14.97	224°	0.3243	9.78	297°	0.9935	0.06
6°	0.9233	0.69	79°	0.9491	0.45	152°	0.1711	15.33	225°	0.3361	9.47	298°	0.9942	0.05
7°	0.9235	0.69	80°	0.9434	0.51	153°	0.1641	15.70	226°	0.3482	9.16	299°	0.9947	0.05
8°	0.9238	0.69	81°	0.9374	0.56	154°	0.1573	16.06	227°	0.3604	8.86	300°	0.9949	0.04
9°	0.9241	0.69	82°	0.9312	0.62	155°	0.1509	16.42	228°	0.3728	8.57	301°	0.9949	0.04
10°	0.9244	0.68	83°	0.9246	0.68	156°	0.1449	16.78	229°	0.3853	8.28	302°	0.9946	0.05
11°	0.9248	0.68	84°	0.9178	0.75	157°	0.1391	17.13	230°	0.3979	8.00	303°	0.9942	0.05
12°	0.9253	0.67	85°	0.9107	0.81	158°	0.1337	17.48	231°	0.4106	7.73	304°	0.9936	0.06
13°	0.9258	0.67	86°	0.9033	0.88	159°	0.1287	17.81	232°	0.4235	7.46	305°	0.9928	0.06
14°	0.9264	0.66	87°	0.8956	0.96	160°	0.1239	18.14	233°	0.4364	7.20	306°	0.9917	0.07
15°	0.9270	0.66	88°	0.8876	1.04	161°	0.1194	18.46	234°	0.4494	6.95	307°	0.9906	0.08
16°	0.9277	0.65	89°	0.8794	1.12	162°	0.1153	18.77	235°	0.4624	6.70	308°	0.9893	0.09
17°	0.9285	0.64	90°	0.8709	1.20	163°	0.1114	19.06	236°	0.4755	6.46	309°	0.9878	0.11
18°	0.9294	0.64	91°	0.8622	1.29	164°	0.1078	19.34	237°	0.4886	6.22	310°	0.9863	0.12
19°	0.9303	0.63	92°	0.8532	1.38	165°	0.1045	19.61	238°	0.5018	5.99	311°	0.9846	0.14
20°	0.9313	0.62	93°	0.8440	1.47	166°	0.1015	19.87	239°	0.5149	5.77	312°	0.9828	0.15
21°	0.9325	0.61	94°	0.8345	1.57	167°	0.0987	20.11	240°	0.5280	5.55	313°	0.9809	0.17
22°	0.9337	0.60	95°	0.8248	1.67	168°	0.0962	20.34	241°	0.5411	5.33	314°	0.9789	0.19
23°	0.9350	0.58	96°	0.8149	1.78	169°	0.0939	20.54	242°	0.5541	5.13	315°	0.9769	0.20
24°	0.9364	0.57	97°	0.8047	1.89	170°	0.0919	20.74	243°	0.5672	4.93	316°	0.9748	0.22
25°	0.9378	0.56	98°	0.7944	2.00	171°	0.0900	20.91	244°	0.5801	4.73	317°	0.9727	0.24
26°	0.9394	0.54	99°	0.7838	2.12	172°	0.0884	21.07	245°	0.5930	4.54	318°	0.9705	0.26
27°	0.9410	0.53	100°	0.7730	2.24	173°	0.0870	21.21	246°	0.6058	4.35	319°	0.9683	0.28
28°	0.9428	0.51	101°	0.7621	2.36	174°	0.0858	21.33	247°	0.6185	4.17	320°	0.9661	0.30
29°	0.9446	0.49	102°	0.7510	2.49	175°	0.0848	21.43	248°	0.6312	4.00	321°	0.9639	0.32
30°	0.9465	0.48	103°	0.7397	2.62	176°	0.0839	21.52	249°	0.6437	3.83	322°	0.9617	0.34
31°	0.9485	0.46	104°	0.7282	2.76	177°	0.0833	21.59	250°	0.6561	3.66	323°	0.9595	0.36
32°	0.9505	0.44	105°	0.7166	2.89	178°	0.0828	21.64	251°	0.6684	3.50	324°	0.9574	0.38
33°	0.9526	0.42	106°	0.7048	3.04	179°	0.0825	21.67	252°	0.6805	3.34	325°	0.9553	0.40
34°	0.9548	0.40	107°	0.6929	3.19	180°	0.0824	21.68	253°	0.6926	3.19	326°	0.9532	0.42
35°	0.9571	0.38	108°	0.6808	3.34	181°	0.0824	21.68	254°	0.7044	3.04	327°	0.9512	0.43
36°	0.9594	0.36	109°	0.6686	3.50	182°	0.0827	21.65	255°	0.7161	2.90	328°	0.9492	0.45
37°	0.9617	0.34	110°	0.6563	3.66	183°	0.0831	21.61	256°	0.7277	2.76	329°	0.9473	0.47
38°	0.9640	0.32	111°	0.6438	3.82	184°	0.0836	21.55	257°	0.7391	2.63	330°	0.9454	0.49
39°	0.9664	0.30	112°	0.6313	4.00	185°	0.0844	21.48	258°	0.7503	2.50	331°	0.9436	0.50
40°	0.9687	0.28	113°	0.6187	4.17	186°	0.0853	21.38	259°	0.7613	2.37	332°	0.9420	0.52
41°	0.9711	0.25	114°	0.6060	4.35	187°	0.0865	21.26	260°	0.7721	2.25	333°	0.9403	0.53
42°	0.9735	0.23	115°	0.5932	4.54	188°	0.0878	21.13	261°	0.7828	2.13	334°	0.9388	0.55
43°	0.9758	0.21	116°	0.5803	4.73	189°	0.0893	20.98	262°	0.7932	2.01	335°	0.9373	0.56
44°	0.9781	0.19	117°	0.5674	4.92	190°	0.0911	20.81	263°	0.8034	1.90	336°	0.9359	0.58
45°	0.9804	0.17	118°	0.5544	5.12	191°	0.0931	20.62	264°	0.8134	1.79	337°	0.9346	0.59
46°	0.9826	0.15	119°	0.5414	5.33	192°	0.0953	20.42	265°	0.8232	1.69	338°	0.9334	0.60
47°	0.9847	0.13	120°	0.5284	5.54	193°	0.0977	20.20	266°	0.8327	1.59	339°	0.9323	0.61
48°	0.9867	0.12	121°	0.5153	5.76	194°	0.1004	19.96	267°	0.8420	1.49	340°	0.9312	0.62
49°	0.9887	0.10	122°	0.5023	5.98	195°	0.1034	19.71	268°	0.8511	1.40	341°	0.9302	0.63
50°	0.9905	0.08	123°	0.4892	6.21	196°	0.1066	19.44	269°	0.8599	1.31	342°	0.9293	0.64
51°	0.9922	0.07	124°	0.4762	6.44	197°	0.1101	19.16	270°	0.8685	1.22	343°	0.9285	0.64
52°	0.9938	0.05	125°	0.4632	6.69	198°	0.1139	18.87	271°	0.8768	1.14	344°	0.9277	0.65
53°	0.9952	0.04	126°	0.4502	6.93	199°	0.1180	18.56	272°	0.8849	1.06	345°	0.9270	0.66
54°	0.9965	0.03	127°	0.4373	7.18	200°	0.1224	18.24	273°	0.8927	0.99	346°	0.9264	0.66
55°	0.9975	0.02	128°	0.4244	7.44	201°	0.1272	17.91	274°	0.9002	0.91	347°	0.9258	0.67
56°	0.9985	0.01	129°	0.4117	7.71	202°	0.1322	17.58	275°	0.9075	0.84	348°	0.9253	0.67
57°	0.9991	0.01	130°	0.3990	7.98	203°	0.1376	17.23	276°	0.9144	0.78	349°	0.9249	0.68
58°	0.9997	0.00	131°	0.3865	8.26	204°	0.1432	16.88	277°	0.9211	0.71	350°	0.9245	0.68
59°	0.9999	0.00	132°	0.3740	8.54	205°	0.1493	16.52	278°	0.9275	0.65	351°	0.9241	0.69
60°	1.0000	-0.00	133°	0.3617	8.83	206°	0.1556	16.16	279°	0.9336	0.60	352°	0.9238	0.69
61°	0.9998	0.00	134°	0.3496	9.13	207°	0.1623	15.79	280°	0.9394	0.54	353°	0.9236	0.69
62°	0.9994	0.01	135°	0.3376	9.43	208°	0.1693	15.42	281°	0.9450	0.49	354°	0.9234	0.69
63°	0.9987	0.01	136°	0.3258	9.74	209°	0.1767	15.05	282°	0.9502	0.44	355°	0.9232	0.69
64°	0.9978	0.02	137°	0.3142	10.06	210°	0.1844	14.68	283°	0.9551	0.40	356°	0.9230	0.70
65°	0.9966	0.03	138°	0.3028	10.38	211°	0.1925	14.31	284°	0.9598	0.36	357°	0.9229	0.70
66°	0.9951	0.04	139°	0.2916	10.71	212°	0.2008	13.94	285°	0.9641	0.32	358°	0.9228	0.70
67°	0.9933	0.06	140°	0.2806	11.04	213°	0.2095	13.57	286°	0.9681	0.28	359°	0.9228	0.70
68°	0.9913	0.08	141°	0.2699	11.38	214°	0.2186	13.21	287°	0.9719	0.25	360°	0.9227	0.70
69°	0.9890	0.10	142°	0.2594	11.72	215°	0.2279	12.85	288°	0.9753	0.22			
70°	0.9863	0.12	143°	0.2492	12.07	216°	0.2375	12.49	289°	0.9785	0.19			
71°	0.9834	0.15	144°	0.2393	12.42	217°	0.2474	12.13	290°	0.9813	0.16			
72°	0.9802	0.17	145°	0.2297	12.78	218°	0.2577	11.78	291°	0.9839	0.14			

E/E_{max} de campo normalizado · atenuação positiva em dB

ASCLN · Azimute 220 graus



Parâmetros da configuração

HPBW HORIZONTAL

223.81°

GANHO

0.00 dBd

FRENTE/COSTAS

0.11 dB

RIPPLE

5.81 dB

Tabela completa - Azimute



ASCLN - Azimute 220 graus

Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB	Ângulo	E/Emax	Aten. dB
0°	0.8993	0.92	73°	0.9993	0.01	146°	0.2428	12.30	219°	0.2903	10.74	292°	0.9991	0.01
1°	0.8993	0.92	74°	0.9985	0.01	147°	0.2353	12.57	220°	0.3016	10.41	293°	0.9984	0.01
2°	0.8993	0.92	75°	0.9974	0.02	148°	0.2287	12.81	221°	0.3135	10.08	294°	0.9974	0.02
3°	0.8994	0.92	76°	0.9960	0.03	149°	0.2228	13.04	222°	0.3258	9.74	295°	0.9962	0.03
4°	0.8995	0.92	77°	0.9942	0.05	150°	0.2178	13.24	223°	0.3385	9.41	296°	0.9948	0.05
5°	0.8996	0.92	78°	0.9922	0.07	151°	0.2136	13.41	224°	0.3516	9.08	297°	0.9933	0.06
6°	0.8997	0.92	79°	0.9898	0.09	152°	0.2101	13.55	225°	0.3651	8.75	298°	0.9916	0.07
7°	0.8998	0.92	80°	0.9871	0.11	153°	0.2075	13.66	226°	0.3789	8.43	299°	0.9897	0.09
8°	0.9000	0.92	81°	0.9840	0.14	154°	0.2056	13.74	227°	0.3930	8.11	300°	0.9877	0.11
9°	0.9002	0.91	82°	0.9806	0.17	155°	0.2044	13.79	228°	0.4073	7.80	301°	0.9855	0.13
10°	0.9005	0.91	83°	0.9768	0.20	156°	0.2039	13.81	229°	0.4218	7.50	302°	0.9833	0.15
11°	0.9008	0.91	84°	0.9726	0.24	157°	0.2040	13.81	230°	0.4366	7.20	303°	0.9809	0.17
12°	0.9011	0.90	85°	0.9681	0.28	158°	0.2047	13.78	231°	0.4515	6.91	304°	0.9785	0.19
13°	0.9014	0.90	86°	0.9631	0.33	159°	0.2058	13.73	232°	0.4665	6.62	305°	0.9759	0.21
14°	0.9018	0.90	87°	0.9578	0.37	160°	0.2073	13.67	233°	0.4816	6.35	306°	0.9734	0.23
15°	0.9023	0.89	88°	0.9521	0.43	161°	0.2092	13.59	234°	0.4968	6.08	307°	0.9707	0.26
16°	0.9028	0.89	89°	0.9461	0.48	162°	0.2114	13.50	235°	0.5121	5.81	308°	0.9680	0.28
17°	0.9033	0.88	90°	0.9396	0.54	163°	0.2137	13.40	236°	0.5274	5.56	309°	0.9653	0.31
18°	0.9039	0.88	91°	0.9327	0.61	164°	0.2162	13.30	237°	0.5427	5.31	310°	0.9626	0.33
19°	0.9046	0.87	92°	0.9255	0.67	165°	0.2189	13.20	238°	0.5580	5.07	311°	0.9599	0.36
20°	0.9053	0.86	93°	0.9179	0.74	166°	0.2215	13.09	239°	0.5733	4.83	312°	0.9572	0.38
21°	0.9061	0.86	94°	0.9098	0.82	167°	0.2242	12.99	240°	0.5885	4.61	313°	0.9544	0.41
22°	0.9070	0.85	95°	0.9014	0.90	168°	0.2268	12.89	241°	0.6036	4.39	314°	0.9517	0.43
23°	0.9079	0.84	96°	0.8927	0.99	169°	0.2293	12.79	242°	0.6186	4.17	315°	0.9491	0.45
24°	0.9089	0.83	97°	0.8835	1.08	170°	0.2318	12.70	243°	0.6336	3.96	316°	0.9465	0.48
25°	0.9100	0.82	98°	0.8740	1.17	171°	0.2340	12.62	244°	0.6483	3.76	317°	0.9439	0.50
26°	0.9112	0.81	99°	0.8641	1.27	172°	0.2361	12.54	245°	0.6630	3.57	318°	0.9413	0.53
27°	0.9124	0.80	100°	0.8538	1.37	173°	0.2380	12.47	246°	0.6774	3.38	319°	0.9389	0.55
28°	0.9137	0.78	101°	0.8432	1.48	174°	0.2397	12.41	247°	0.6917	3.20	320°	0.9365	0.57
29°	0.9152	0.77	102°	0.8322	1.60	175°	0.2412	12.35	248°	0.7058	3.03	321°	0.9341	0.59
30°	0.9167	0.76	103°	0.8209	1.71	176°	0.2424	12.31	249°	0.7196	2.86	322°	0.9318	0.61
31°	0.9183	0.74	104°	0.8093	1.84	177°	0.2433	12.28	250°	0.7333	2.69	323°	0.9297	0.63
32°	0.9199	0.73	105°	0.7974	1.97	178°	0.2440	12.25	251°	0.7466	2.54	324°	0.9275	0.65
33°	0.9217	0.71	106°	0.7851	2.10	179°	0.2444	12.24	252°	0.7597	2.39	325°	0.9255	0.67
34°	0.9236	0.69	107°	0.7726	2.24	180°	0.2446	12.23	253°	0.7726	2.24	326°	0.9236	0.69
35°	0.9255	0.67	108°	0.7597	2.39	181°	0.2444	12.24	254°	0.7851	2.10	327°	0.9217	0.71
36°	0.9275	0.65	109°	0.7466	2.54	182°	0.2440	12.25	255°	0.7974	1.97	328°	0.9199	0.73
37°	0.9297	0.63	110°	0.7332	2.70	183°	0.2433	12.28	256°	0.8093	1.84	329°	0.9183	0.74
38°	0.9318	0.61	111°	0.7196	2.86	184°	0.2424	12.31	257°	0.8209	1.71	330°	0.9167	0.76
39°	0.9341	0.59	112°	0.7058	3.03	185°	0.2412	12.35	258°	0.8322	1.60	331°	0.9152	0.77
40°	0.9365	0.57	113°	0.6917	3.20	186°	0.2397	12.41	259°	0.8432	1.48	332°	0.9137	0.78
41°	0.9389	0.55	114°	0.6774	3.38	187°	0.2380	12.47	260°	0.8538	1.37	333°	0.9124	0.80
42°	0.9413	0.53	115°	0.6630	3.57	188°	0.2361	12.54	261°	0.8641	1.27	334°	0.9112	0.81
43°	0.9439	0.50	116°	0.6483	3.76	189°	0.2340	12.62	262°	0.8740	1.17	335°	0.9100	0.82
44°	0.9465	0.48	117°	0.6336	3.96	190°	0.2318	12.70	263°	0.8835	1.08	336°	0.9089	0.83
45°	0.9491	0.45	118°	0.6186	4.17	191°	0.2293	12.79	264°	0.8927	0.99	337°	0.9079	0.84
46°	0.9517	0.43	119°	0.6036	4.39	192°	0.2268	12.89	265°	0.9014	0.90	338°	0.9070	0.85
47°	0.9544	0.41	120°	0.5885	4.61	193°	0.2242	12.99	266°	0.9098	0.82	339°	0.9061	0.86
48°	0.9572	0.38	121°	0.5733	4.83	194°	0.2215	13.09	267°	0.9179	0.74	340°	0.9053	0.86
49°	0.9599	0.36	122°	0.5580	5.07	195°	0.2189	13.20	268°	0.9255	0.67	341°	0.9046	0.87
50°	0.9626	0.33	123°	0.5427	5.31	196°	0.2162	13.30	269°	0.9327	0.61	342°	0.9039	0.88
51°	0.9653	0.31	124°	0.5274	5.56	197°	0.2137	13.40	270°	0.9396	0.54	343°	0.9033	0.88
52°	0.9680	0.28	125°	0.5121	5.81	198°	0.2114	13.50	271°	0.9461	0.48	344°	0.9028	0.89
53°	0.9707	0.26	126°	0.4968	6.08	199°	0.2092	13.59	272°	0.9521	0.43	345°	0.9023	0.89
54°	0.9734	0.23	127°	0.4816	6.35	200°	0.2073	13.67	273°	0.9578	0.37	346°	0.9018	0.90
55°	0.9759	0.21	128°	0.4665	6.62	201°	0.2058	13.73	274°	0.9631	0.33	347°	0.9014	0.90
56°	0.9785	0.19	129°	0.4515	6.91	202°	0.2047	13.78	275°	0.9681	0.28	348°	0.9011	0.90
57°	0.9809	0.17	130°	0.4366	7.20	203°	0.2040	13.81	276°	0.9726	0.24	349°	0.9008	0.91
58°	0.9833	0.15	131°	0.4218	7.50	204°	0.2039	13.81	277°	0.9768	0.20	350°	0.9005	0.91
59°	0.9855	0.13	132°	0.4073	7.80	205°	0.2044	13.79	278°	0.9806	0.17	351°	0.9002	0.91
60°	0.9877	0.11	133°	0.3930	8.11	206°	0.2056	13.74	279°	0.9840	0.14	352°	0.9000	0.92
61°	0.9897	0.09	134°	0.3789	8.43	207°	0.2075	13.66	280°	0.9871	0.11	353°	0.8998	0.92
62°	0.9916	0.07	135°	0.3651	8.75	208°	0.2101	13.55	281°	0.9898	0.09	354°	0.8997	0.92
63°	0.9933	0.06	136°	0.3516	9.08	209°	0.2136	13.41	282°	0.9922	0.07	355°	0.8996	0.92
64°	0.9948	0.05	137°	0.3385	9.41	210°	0.2178	13.24	283°	0.9942	0.05	356°	0.8995	0.92
65°	0.9962	0.03	138°	0.3258	9.74	211°	0.2228	13.04	284°	0.9960	0.03	357°	0.8994	0.92
66°	0.9974	0.02	139°	0.3135	10.08	212°	0.2287	12.81	285°	0.9974	0.02	358°	0.8993	0.92
67°	0.9984	0.01	140°	0.3016	10.41	213°	0.2353	12.57	286°	0.9985	0.01	359°	0.8993	0.92
68°	0.9991	0.01	141°	0.2903	10.74	214°	0.2428	12.30	287°	0.9993	0.01	360°	0.8993	0.92
69°	0.9997	0.00	142°	0.2795	11.07	215°	0.2509	12.01	288°	0.9998	0.00			
70°	1.0000	-0.00	143°	0.2694	11.39	216°	0.2598	11.71	289°	1.0000	-0.00			
71°	1.0000	-0.00	144°	0.2598	11.71	217°	0.2694	11.39	290°	1.0000	-0.00			
72°	0.9998	0.00	145°	0.2509	12.01	218°	0.2795	11.07	291°	0.9997	0.00			

E/Emax de campo normalizado - atenuação positiva em dB