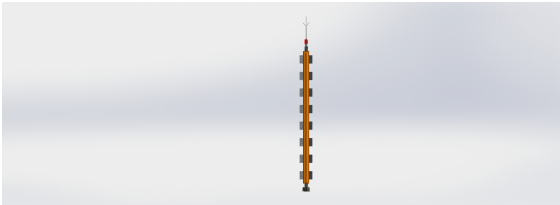


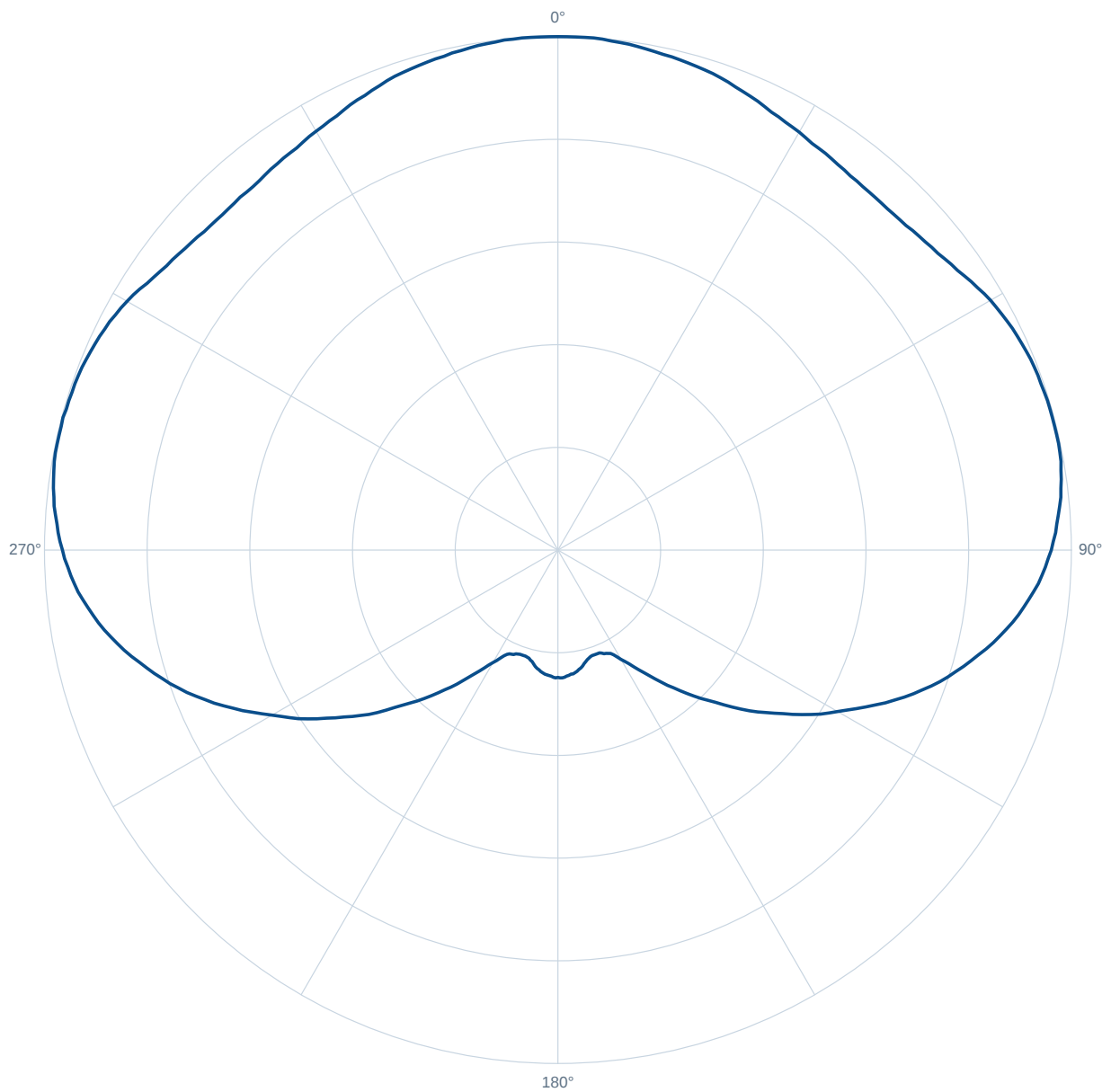
Descrição não informada.



Características elétricas	
Item	Valor
Ganho cadastrado (referência)	0.00 dBd
HPBW horizontal	230.50°
HPBW vertical	46.81°
Faixa de frequência	170.00 – 450.00 MHz
Polarização	horizontal
Fabricante	EFTX Broadcast & Telecom
Categoria	TV







Parâmetros da configuração

HPBW HORIZONTAL

230.50°

GANHO

0.00 dBd

FRENTE/COSTAS

11.94 dB

RIPPLE

5.78 dB

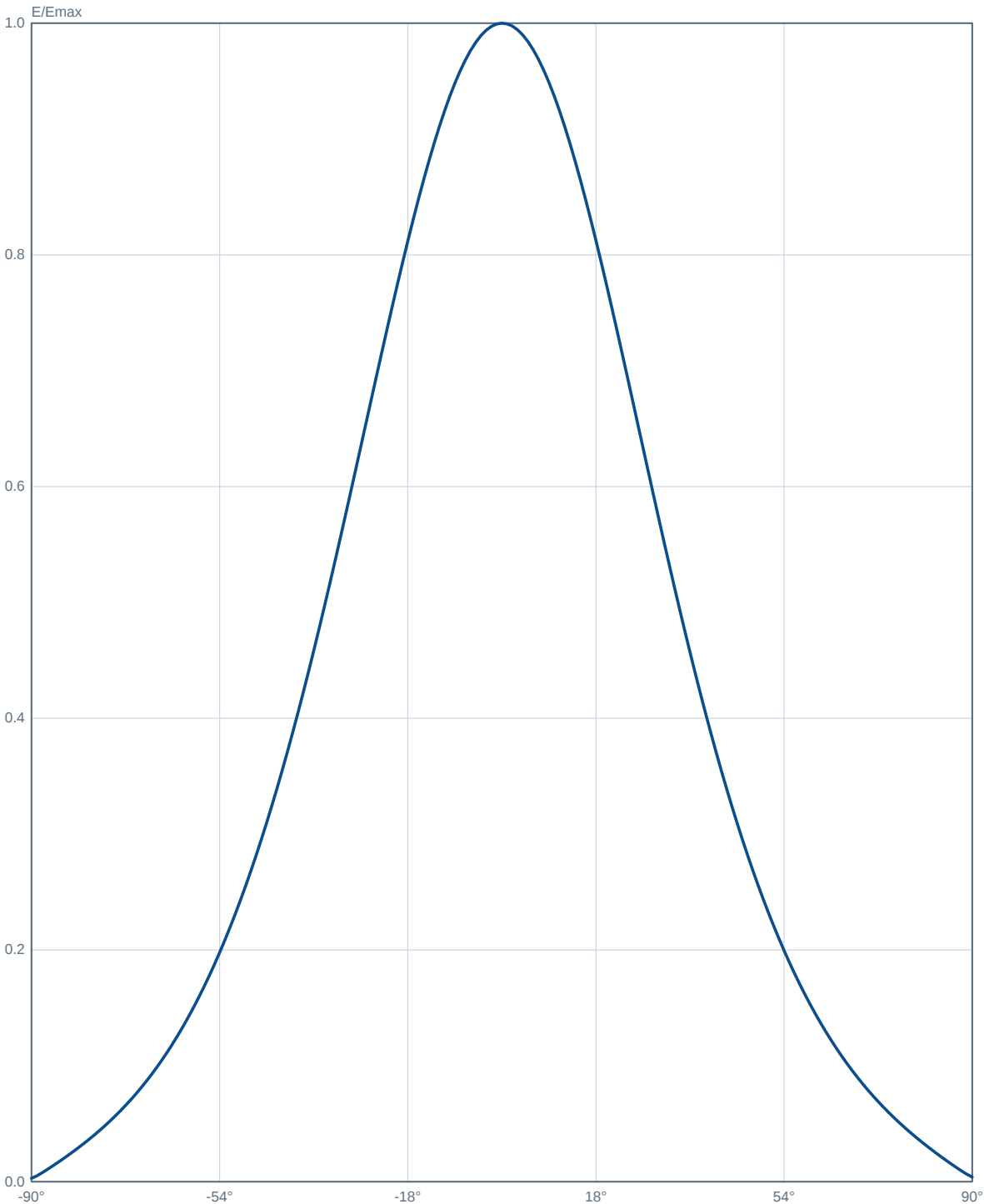
Tabela completa - Azimute



ASCDVN - Diagrama de azimute

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°	0.9970	0.03	146°	0.2810	11.03	219°	0.3500	9.12	292°	0.9910	0.08
1°	1.0000	-0.00	74°	0.9970	0.03	147°	0.2710	11.34	220°	0.3630	8.80	293°	0.9890	0.10
2°	1.0000	-0.00	75°	0.9970	0.03	148°	0.2610	11.67	221°	0.3760	8.50	294°	0.9870	0.11
3°	1.0000	-0.00	76°	0.9970	0.03	149°	0.2530	11.94	222°	0.3890	8.20	295°	0.9850	0.13
4°	1.0000	-0.00	77°	0.9970	0.03	150°	0.2460	12.18	223°	0.4020	7.92	296°	0.9820	0.16
5°	0.9990	0.01	78°	0.9970	0.03	151°	0.2380	12.47	224°	0.4140	7.66	297°	0.9800	0.18
6°	0.9970	0.03	79°	0.9960	0.03	152°	0.2310	12.73	225°	0.4270	7.39	298°	0.9760	0.21
7°	0.9960	0.03	80°	0.9950	0.04	153°	0.2260	12.92	226°	0.4410	7.11	299°	0.9730	0.24
8°	0.9950	0.04	81°	0.9920	0.07	154°	0.2240	12.99	227°	0.4570	6.80	300°	0.9690	0.27
9°	0.9930	0.06	82°	0.9900	0.09	155°	0.2220	13.07	228°	0.4730	6.50	301°	0.9650	0.31
10°	0.9910	0.08	83°	0.9870	0.11	156°	0.2210	13.11	229°	0.4880	6.23	302°	0.9600	0.35
11°	0.9890	0.10	84°	0.9850	0.13	157°	0.2180	13.23	230°	0.5010	6.00	303°	0.9540	0.41
12°	0.9870	0.11	85°	0.9810	0.17	158°	0.2160	13.31	231°	0.5150	5.76	304°	0.9500	0.45
13°	0.9860	0.12	86°	0.9770	0.20	159°	0.2160	13.31	232°	0.5280	5.55	305°	0.9460	0.48
14°	0.9840	0.14	87°	0.9730	0.24	160°	0.2160	13.31	233°	0.5430	5.30	306°	0.9420	0.52
15°	0.9820	0.16	88°	0.9700	0.26	161°	0.2160	13.31	234°	0.5570	5.08	307°	0.9400	0.54
16°	0.9800	0.18	89°	0.9650	0.31	162°	0.2160	13.31	235°	0.5730	4.84	308°	0.9370	0.57
17°	0.9780	0.19	90°	0.9610	0.35	163°	0.2170	13.27	236°	0.5880	4.61	309°	0.9340	0.59
18°	0.9760	0.21	91°	0.9550	0.40	164°	0.2190	13.19	237°	0.6030	4.39	310°	0.9320	0.61
19°	0.9730	0.24	92°	0.9500	0.45	165°	0.2210	13.11	238°	0.6160	4.21	311°	0.9300	0.63
20°	0.9700	0.26	93°	0.9440	0.50	166°	0.2240	12.99	239°	0.6290	4.03	312°	0.9270	0.66
21°	0.9660	0.30	94°	0.9380	0.56	167°	0.2270	12.88	240°	0.6430	3.84	313°	0.9260	0.67
22°	0.9630	0.33	95°	0.9300	0.63	168°	0.2310	12.73	241°	0.6580	3.64	314°	0.9250	0.68
23°	0.9600	0.35	96°	0.9220	0.71	169°	0.2340	12.62	242°	0.6730	3.44	315°	0.9240	0.69
24°	0.9570	0.38	97°	0.9140	0.78	170°	0.2360	12.54	243°	0.6890	3.24	316°	0.9240	0.69
25°	0.9530	0.42	98°	0.9060	0.86	171°	0.2390	12.43	244°	0.7030	3.06	317°	0.9240	0.69
26°	0.9490	0.45	99°	0.8970	0.94	172°	0.2410	12.36	245°	0.7180	2.88	318°	0.9250	0.68
27°	0.9470	0.47	100°	0.8870	1.04	173°	0.2430	12.29	246°	0.7330	2.70	319°	0.9240	0.69
28°	0.9440	0.50	101°	0.8770	1.14	174°	0.2430	12.29	247°	0.7460	2.55	320°	0.9240	0.69
29°	0.9420	0.52	102°	0.8670	1.24	175°	0.2450	12.22	248°	0.7600	2.38	321°	0.9250	0.68
30°	0.9400	0.54	103°	0.8560	1.35	176°	0.2460	12.18	249°	0.7740	2.23	322°	0.9270	0.66
31°	0.9370	0.57	104°	0.8440	1.47	177°	0.2480	12.11	250°	0.7860	2.09	323°	0.9290	0.64
32°	0.9340	0.59	105°	0.8330	1.59	178°	0.2490	12.08	251°	0.7990	1.95	324°	0.9300	0.63
33°	0.9330	0.60	106°	0.8220	1.70	179°	0.2490	12.08	252°	0.8100	1.83	325°	0.9320	0.61
34°	0.9320	0.61	107°	0.8100	1.83	180°	0.2480	12.11	253°	0.8220	1.70	326°	0.9330	0.60
35°	0.9300	0.63	108°	0.7990	1.95	181°	0.2490	12.08	254°	0.8330	1.59	327°	0.9340	0.59
36°	0.9280	0.65	109°	0.7870	2.08	182°	0.2480	12.11	255°	0.8440	1.47	328°	0.9370	0.57
37°	0.9270	0.66	110°	0.7740	2.23	183°	0.2460	12.18	256°	0.8560	1.35	329°	0.9400	0.54
38°	0.9250	0.68	111°	0.7600	2.38	184°	0.2450	12.22	257°	0.8670	1.24	330°	0.9420	0.52
39°	0.9250	0.68	112°	0.7470	2.53	185°	0.2440	12.25	258°	0.8770	1.14	331°	0.9440	0.50
40°	0.9240	0.69	113°	0.7330	2.70	186°	0.2430	12.29	259°	0.8870	1.04	332°	0.9470	0.47
41°	0.9240	0.69	114°	0.7180	2.88	187°	0.2410	12.36	260°	0.8970	0.94	333°	0.9490	0.45
42°	0.9240	0.69	115°	0.7040	3.05	188°	0.2390	12.43	261°	0.9060	0.86	334°	0.9530	0.42
43°	0.9240	0.69	116°	0.6880	3.25	189°	0.2360	12.54	262°	0.9140	0.78	335°	0.9570	0.38
44°	0.9240	0.69	117°	0.6730	3.44	190°	0.2340	12.62	263°	0.9220	0.71	336°	0.9600	0.35
45°	0.9250	0.68	118°	0.6580	3.64	191°	0.2310	12.73	264°	0.9300	0.63	337°	0.9620	0.34
46°	0.9260	0.67	119°	0.6430	3.84	192°	0.2270	12.88	265°	0.9380	0.56	338°	0.9660	0.30
47°	0.9270	0.66	120°	0.6290	4.03	193°	0.2230	13.03	266°	0.9440	0.50	339°	0.9690	0.27
48°	0.9300	0.63	121°	0.6160	4.21	194°	0.2210	13.11	267°	0.9500	0.45	340°	0.9730	0.24
49°	0.9320	0.61	122°	0.6030	4.39	195°	0.2180	13.23	268°	0.9550	0.40	341°	0.9760	0.21
50°	0.9340	0.59	123°	0.5880	4.61	196°	0.2170	13.27	269°	0.9610	0.35	342°	0.9780	0.19
51°	0.9370	0.57	124°	0.5730	4.84	197°	0.2160	13.31	270°	0.9650	0.31	343°	0.9800	0.18
52°	0.9390	0.55	125°	0.5580	5.07	198°	0.2160	13.31	271°	0.9700	0.26	344°	0.9820	0.16
53°	0.9430	0.51	126°	0.5420	5.32	199°	0.2160	13.31	272°	0.9740	0.23	345°	0.9840	0.14
54°	0.9470	0.47	127°	0.5280	5.55	200°	0.2160	13.31	273°	0.9770	0.20	346°	0.9860	0.12
55°	0.9500	0.45	128°	0.5140	5.78	201°	0.2170	13.27	274°	0.9810	0.17	347°	0.9870	0.11
56°	0.9550	0.40	129°	0.5010	6.00	202°	0.2180	13.23	275°	0.9850	0.13	348°	0.9900	0.09
57°	0.9600	0.35	130°	0.4870	6.25	203°	0.2210	13.11	276°	0.9870	0.11	349°	0.9910	0.08
58°	0.9640	0.32	131°	0.4720	6.52	204°	0.2220	13.07	277°	0.9900	0.09	350°	0.9930	0.06
59°	0.9690	0.27	132°	0.4570	6.80	205°	0.2230	13.03	278°	0.9920	0.07	351°	0.9950	0.04
60°	0.9730	0.24	133°	0.4420	7.09	206°	0.2260	12.92	279°	0.9940	0.05	352°	0.9960	0.03
61°	0.9760	0.21	134°	0.4270	7.39	207°	0.2310	12.73	280°	0.9960	0.03	353°	0.9970	0.03
62°	0.9790	0.18	135°	0.4140	7.66	208°	0.2380	12.47	281°	0.9970	0.03	354°	0.9990	0.01
63°	0.9820	0.16	136°	0.4020	7.92	209°	0.2460	12.18	282°	0.9970	0.03	355°	0.9990	0.01
64°	0.9850	0.13	137°	0.3890	8.20	210°	0.2530	11.94	283°	0.9970	0.03	356°	1.0000	-0.00
65°	0.9870	0.11	138°	0.3760	8.50	211°	0.2610	11.67	284°	0.9970	0.03	357°	1.0000	-0.00
66°	0.9890	0.10	139°	0.3630	8.80	212°	0.2710	11.34	285°	0.9980	0.02	358°	1.0000	-0.00
67°	0.9910	0.08	140°	0.3500	9.12	213°	0.2810	11.03	286°	0.9960	0.03	359°	1.0000	-0.00
68°	0.9930	0.06	141°	0.3390	9.40	214°	0.2910	10.72	287°	0.9960	0.03	360°	1.0000	-0.00
69°	0.9940	0.05	142°	0.3260	9.74	215°	0.3020	10.40	288°	0.9950	0.04			
70°	0.9950	0.04	143°	0.3140	10.06	216°	0.3140	10.06	289°	0.9950	0.04			
71°	0.9950	0.04	144°	0.3020	10.40	217°	0.3270	9.71	290°	0.9940	0.05			
72°	0.9960	0.03	145°	0.2910	10.72	218°	0.3390	9.40	291°	0.9930	0.06			

E/Emax 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



ASCDVN - 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	16.55
-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°	0.9586	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°	0.4768	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°	0.9921	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	12.46	87°	0.0121	38.31
-58.5°	0.1548	16.21	-22°	0.7354	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