

The EFTX MIMO VHF Pol. H/V Panel Antenna is designed for demanding TV 3.0 transmissions, featuring a flexible, robust, and lightweight single-panel or composite design. Its dual-polarization MIMO arrangement ensures high spectral efficiency and interference robustness, with over 35 dB cross-polarization isolation. Offering 7.9 dBd gain, it provides broad, uniform coverage with excellent VSWR (<1.05 for 174-186 MHz, <1.2 for up to 216 MHz option 310MHz). It features a polished aluminum finish and silver-plated brass connections for durability in harsh...



Características elétricas

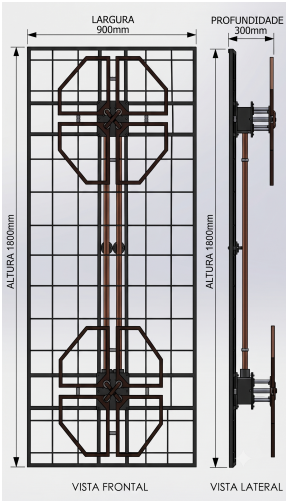
Item	Valor
Ganho cadastrado (referência)	7.90 dBd
HPBW horizontal	61.06°
HPBW vertical	73.66°
Faixa de frequência	174.00 – 320.00 MHz
Polarização	Horizontal / Vertical (MIMO)
Fabricante	EFTX Broadcast & Telecom
Categoria	TV
Cross-Pol Isolation	> 35 dB at 360°
RF Input Connector	EIA 1 5/8 inch
Maximum Power	5 kW per port
VSWR (Channels 7 & 8)	$< 1.06:1$
VSWR (up to Channel 13)	$< 1.20:1$

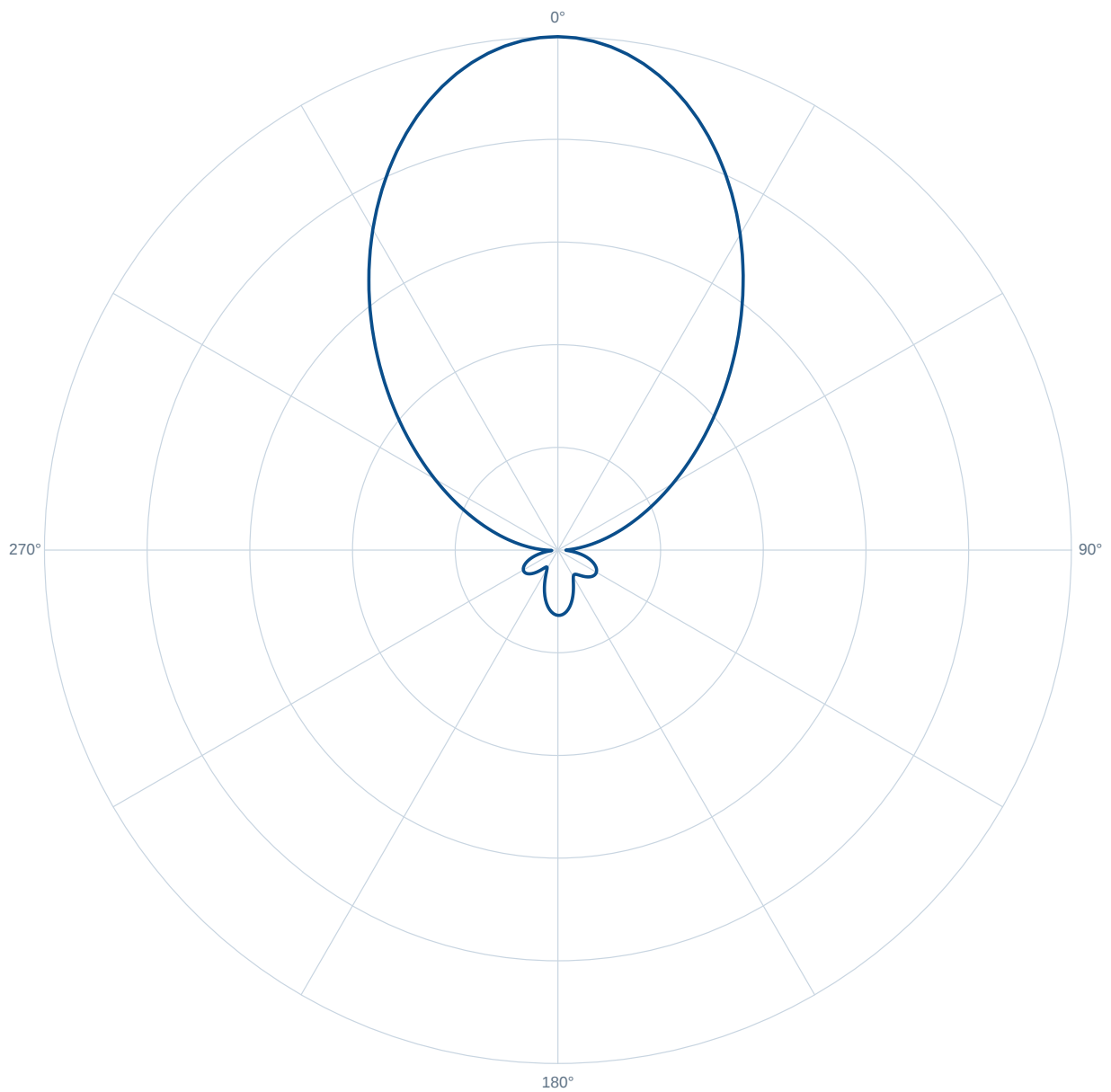


Validar autenticidade · 1.0

Página 1 · Código 940F64B4

Características mecânicas	
Item	Valor
Dimensions (LxHxD)	900 mm x 1800 mm x 300 mm
Weight	13 kg
Wind Load (at 160 km/h)	Frontal: 810 N; Lateral: 700 N
Maximum Wind Speed	225 km/h





Parâmetros da configuração

HPBW HORIZONTAL

61.06°

GANHO

7.90 dBd

FRENTE/COSTAS

17.91 dB

RIPPLE

5.76 dB

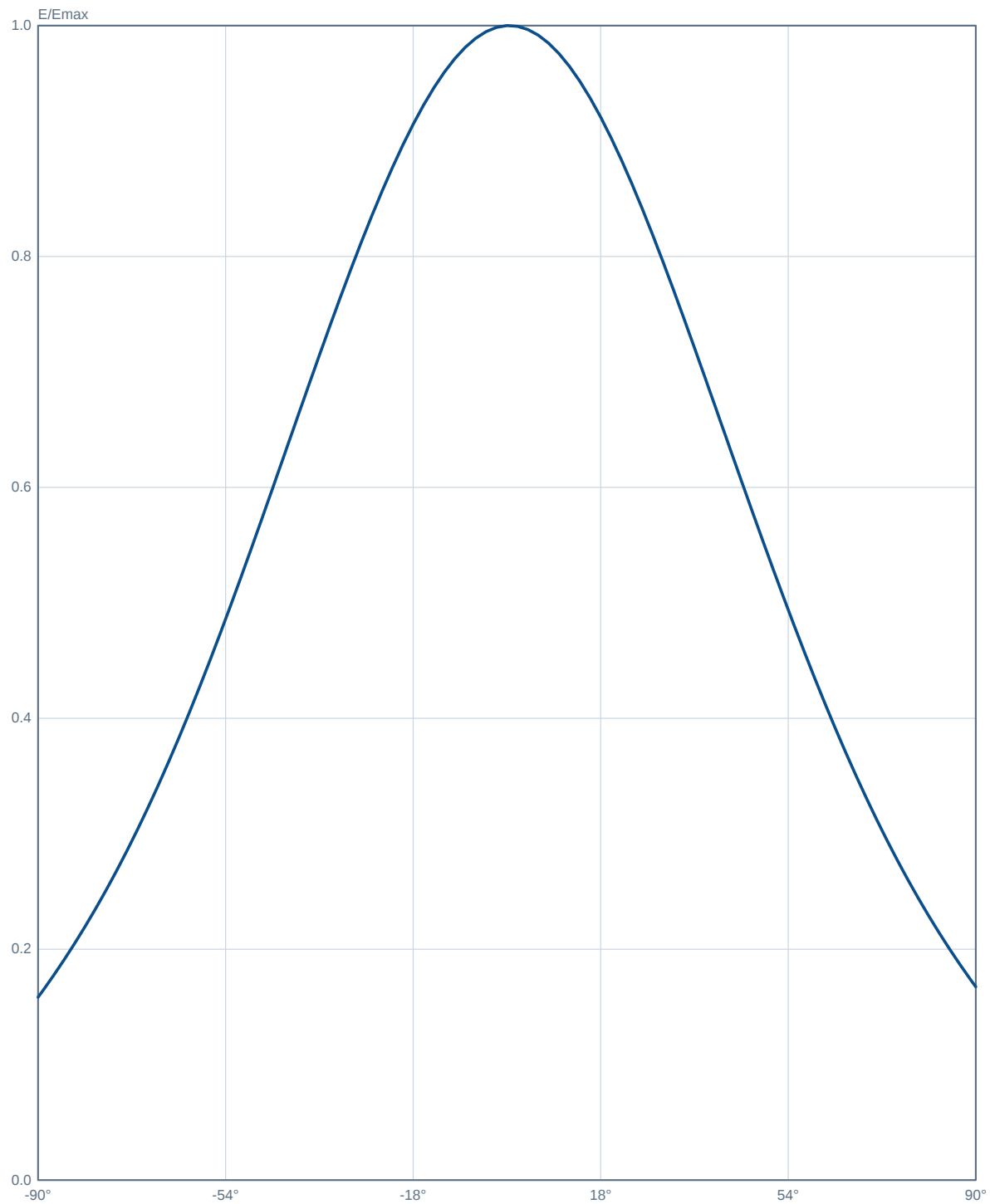
Tabela completa - Azimute



APTM-VH · Azimute

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°	1.0000	-0.00	73°	0.1227	18.23	146°	0.0572	24.85	219°	0.0475	26.47	292°	0.1884	14.50
1°	0.9991	0.01	74°	0.1143	18.84	147°	0.0575	24.81	220°	0.0498	26.05	293°	0.1984	14.05
2°	0.9983	0.02	75°	0.1057	19.52	148°	0.0578	24.77	221°	0.0523	25.63	294°	0.2090	13.60
3°	0.9959	0.04	76°	0.0978	20.19	149°	0.0589	24.60	222°	0.0548	25.22	295°	0.2195	13.17
4°	0.9935	0.06	77°	0.0897	20.94	150°	0.0600	24.44	223°	0.0573	24.84	296°	0.2306	12.74
5°	0.9896	0.09	78°	0.0823	21.69	151°	0.0618	24.18	224°	0.0598	24.46	297°	0.2417	12.34
6°	0.9858	0.12	79°	0.0747	22.54	152°	0.0636	23.93	225°	0.0621	24.14	298°	0.2533	11.93
7°	0.9804	0.17	80°	0.0678	23.38	153°	0.0661	23.60	226°	0.0645	23.81	299°	0.2648	11.54
8°	0.9751	0.22	81°	0.0606	24.35	154°	0.0686	23.28	227°	0.0665	23.54	300°	0.2769	11.15
9°	0.9684	0.28	82°	0.0542	25.32	155°	0.0714	22.92	228°	0.0686	23.27	301°	0.2890	10.78
10°	0.9617	0.34	83°	0.0475	26.47	156°	0.0744	22.57	229°	0.0704	23.05	302°	0.3016	10.41
11°	0.9536	0.41	84°	0.0416	27.61	157°	0.0775	22.21	230°	0.0721	22.84	303°	0.3141	10.06
12°	0.9455	0.49	85°	0.0355	28.99	158°	0.0808	21.85	231°	0.0735	22.68	304°	0.3272	9.70
13°	0.9361	0.57	86°	0.0303	30.36	159°	0.0841	21.51	232°	0.0749	22.51	305°	0.3403	9.36
14°	0.9269	0.66	87°	0.0252	31.96	160°	0.0875	21.16	233°	0.0759	22.40	306°	0.3539	9.02
15°	0.9163	0.76	88°	0.0210	33.57	161°	0.0907	20.84	234°	0.0768	22.29	307°	0.3674	8.70
16°	0.9058	0.86	89°	0.0180	34.88	162°	0.0941	20.52	235°	0.0774	22.22	308°	0.3814	8.37
17°	0.8942	0.97	90°	0.0155	36.19	163°	0.0973	20.24	236°	0.0780	22.16	309°	0.3954	8.06
18°	0.8826	1.08	91°	0.0161	35.89	164°	0.1006	19.95	237°	0.0781	22.14	310°	0.4099	7.75
19°	0.8700	1.21	92°	0.0166	35.59	165°	0.1036	19.70	238°	0.0783	22.13	311°	0.4242	7.45
20°	0.8575	1.34	93°	0.0193	34.27	166°	0.1066	19.44	239°	0.0780	22.16	312°	0.4391	7.15
21°	0.8439	1.47	94°	0.0225	32.96	167°	0.1093	19.22	240°	0.0777	22.19	313°	0.4538	6.86
22°	0.8306	1.61	95°	0.0259	31.72	168°	0.1121	19.01	241°	0.0770	22.27	314°	0.4691	6.57
23°	0.8162	1.76	96°	0.0299	30.49	169°	0.1145	18.83	242°	0.0763	22.35	315°	0.4841	6.30
24°	0.8021	1.91	97°	0.0335	29.51	170°	0.1169	18.65	243°	0.0752	22.47	316°	0.4997	6.03
25°	0.7872	2.08	98°	0.0375	28.53	171°	0.1188	18.50	244°	0.0741	22.60	317°	0.5150	5.76
26°	0.7724	2.24	99°	0.0410	27.75	172°	0.1208	18.36	245°	0.0726	22.78	318°	0.5308	5.50
27°	0.7569	2.42	100°	0.0448	26.98	173°	0.1224	18.25	246°	0.0712	22.95	319°	0.5464	5.25
28°	0.7417	2.60	101°	0.0481	26.35	174°	0.1239	18.14	247°	0.0693	23.19	320°	0.5624	5.00
29°	0.7257	2.78	102°	0.0517	25.73	175°	0.1250	18.06	248°	0.0674	23.42	321°	0.5781	4.76
30°	0.7101	2.97	103°	0.0548	25.22	176°	0.1260	17.99	249°	0.0652	23.72	322°	0.5942	4.52
31°	0.6938	3.18	104°	0.0581	24.72	177°	0.1266	17.95	250°	0.0630	24.01	323°	0.6100	4.29
32°	0.6779	3.38	105°	0.0609	24.30	178°	0.1271	17.92	251°	0.0604	24.38	324°	0.6261	4.07
33°	0.6614	3.59	106°	0.0639	23.89	179°	0.1271	17.91	252°	0.0579	24.75	325°	0.6419	3.85
34°	0.6453	3.80	107°	0.0665	23.55	180°	0.1272	17.91	253°	0.0549	25.21	326°	0.6580	3.63
35°	0.6287	4.03	108°	0.0692	23.20	181°	0.1267	17.95	254°	0.0521	25.67	327°	0.6737	3.43
36°	0.6126	4.26	109°	0.0714	22.92	182°	0.1262	17.98	255°	0.0488	26.24	328°	0.6897	3.23
37°	0.5960	4.50	110°	0.0738	22.64	183°	0.1251	18.05	256°	0.0457	26.81	329°	0.7052	3.03
38°	0.5798	4.73	111°	0.0757	22.42	184°	0.1241	18.12	257°	0.0421	27.52	330°	0.7210	2.84
39°	0.5633	4.99	112°	0.0777	22.19	185°	0.1226	18.23	258°	0.0387	28.24	331°	0.7361	2.66
40°	0.5472	5.24	113°	0.0793	22.01	186°	0.1210	18.34	259°	0.0348	29.16	332°	0.7516	2.48
41°	0.5309	5.50	114°	0.0810	21.83	187°	0.1190	18.49	260°	0.0314	30.08	333°	0.7664	2.31
42°	0.5150	5.76	115°	0.0823	21.70	188°	0.1170	18.64	261°	0.0273	31.29	334°	0.7814	2.14
43°	0.4989	6.04	116°	0.0836	21.56	189°	0.1145	18.83	262°	0.0237	32.50	335°	0.7957	1.99
44°	0.4832	6.32	117°	0.0845	21.47	190°	0.1120	19.01	263°	0.0198	34.08	336°	0.8102	1.83
45°	0.4674	6.61	118°	0.0854	21.37	191°	0.1091	19.25	264°	0.0165	35.66	337°	0.8239	1.68
46°	0.4521	6.90	119°	0.0859	21.32	192°	0.1062	19.48	265°	0.0140	37.08	338°	0.8377	1.54
47°	0.4366	7.20	120°	0.0865	21.26	193°	0.1029	19.75	266°	0.0119	38.49	339°	0.8506	1.41
48°	0.4216	7.50	121°	0.0867	21.24	194°	0.0996	20.03	267°	0.0131	37.64	340°	0.8637	1.27
49°	0.4065	7.82	122°	0.0869	21.22	195°	0.0960	20.36	268°	0.0145	36.80	341°	0.8758	1.15
50°	0.3919	8.14	123°	0.0867	21.24	196°	0.0925	20.68	269°	0.0181	34.86	342°	0.8881	1.03
51°	0.3773	8.47	124°	0.0865	21.26	197°	0.0885	21.06	270°	0.0226	32.91	343°	0.8992	0.92
52°	0.3632	8.80	125°	0.0859	21.32	198°	0.0848	21.43	271°	0.0273	31.27	344°	0.9105	0.81
53°	0.3490	9.14	126°	0.0854	21.37	199°	0.0807	21.86	272°	0.0330	29.62	345°	0.9206	0.72
54°	0.3353	9.49	127°	0.0845	21.47	200°	0.0768	22.29	273°	0.0384	28.32	346°	0.9308	0.62
55°	0.3216	9.85	128°	0.0836	21.56	201°	0.0726	22.78	274°	0.0446	27.01	347°	0.9397	0.54
56°	0.3085	10.21	129°	0.0823	21.69	202°	0.0687	23.26	275°	0.0505	25.93	348°	0.9488	0.46
57°	0.2953	10.59	130°	0.0811	21.82	203°	0.0646	23.79	276°	0.0572	24.86	349°	0.9565	0.39
58°	0.2827	10.97	131°	0.0796	21.98	204°	0.0608	24.32	277°	0.0635	23.94	350°	0.9643	0.32
59°	0.2700	11.37	132°	0.0781	22.14	205°	0.0570	24.88	278°	0.0706	23.03	351°	0.9707	0.26
60°	0.2579	11.77	133°	0.0764	22.34	206°	0.0535	25.44	279°	0.0773	22.23	352°	0.9771	0.20
61°	0.2458	12.19	134°	0.0747	22.54	207°	0.0502	25.99	280°	0.0848	21.44	353°	0.9822	0.16
62°	0.2342	12.61	135°	0.0728	22.76	208°	0.0471	26.54	281°	0.0920	20.73	354°	0.9872	0.11
63°	0.2226	13.05	136°	0.0709	22.98	209°	0.0446	27.01	282°	0.0998	20.02	355°	0.9908	0.08
64°	0.2116	13.49	137°	0.0690	23.22	210°	0.0423	27.47	283°	0.1075	19.38	356°	0.9944	0.05
65°	0.2006	13.96	138°	0.0671	23.46	211°	0.0410	27.75	284°	0.1157	18.73	357°	0.9966	0.03
66°	0.1901	14.42	139°	0.0653	23.70	212°	0.0397	28.03	285°	0.1238	18.15	358°	0.9987	0.01
67°	0.1795	14.92	140°	0.0635	23.95	213°	0.0396	28.05	286°	0.1325	17.56	359°	0.9994	0.01
68°	0.1696	15.41	141°	0.0619	24.16	214°	0.0395	28.07	287°	0.1410	17.01	360°	1.0000	-0.00
69°	0.1596	15.94	142°	0.0604	24.38	215°	0.0405	27.86	288°	0.1502	16.47			
70°	0.1501	16.47	143°	0.0593	24.54	216°	0.0415	27.64	289°	0.1592	15.96			
71°	0.1406	17.04	144°	0.0582	24.71	217°	0.0433	27.27	290°	0.1688	15.45			
72°	0.1317	17.61	145°	0.0577	24.78	218°	0.0452	26.90	291°	0.1783	14.98			

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



Parâmetros da configuração			
ELEMENTOS	HPBW VERTICAL	GANHO	PRIMEIRO NULO
N/D	73.66°	7.90 dBd	N/D

Tabela completa - Elevação



APTM-VH · 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°	0.1584	16.00	-53.5°	0.4921	6.16	-17°	0.9228	0.70	19.5°	0.9072	0.85	56°	0.4703	6.55
-89.5°	0.1615	15.84	-53°	0.4981	6.05	-16.5°	0.9270	0.66	20°	0.9028	0.89	56.5°	0.4644	6.66
-89°	0.1646	15.67	-52.5°	0.5043	5.95	-16°	0.9312	0.62	20.5°	0.8979	0.94	57°	0.4585	6.77
-88.5°	0.1678	15.50	-52°	0.5105	5.84	-15.5°	0.9349	0.58	21°	0.8931	0.98	57.5°	0.4528	6.88
-88°	0.1710	15.34	-51.5°	0.5167	5.74	-15°	0.9387	0.55	21.5°	0.8883	1.03	58°	0.4471	6.99
-87.5°	0.1742	15.18	-51°	0.5228	5.63	-14.5°	0.9425	0.51	22°	0.8835	1.08	58.5°	0.4414	7.10
-87°	0.1774	15.02	-50.5°	0.5291	5.53	-14°	0.9463	0.48	22.5°	0.8783	1.13	59°	0.4356	7.22
-86.5°	0.1808	14.86	-50°	0.5354	5.43	-13.5°	0.9497	0.45	23°	0.8731	1.18	59.5°	0.4301	7.33
-86°	0.1841	14.70	-49.5°	0.5417	5.33	-13°	0.9530	0.42	23.5°	0.8680	1.23	60°	0.4245	7.44
-85.5°	0.1875	14.54	-49°	0.5479	5.23	-12.5°	0.9564	0.39	24°	0.8629	1.28	60.5°	0.4189	7.56
-85°	0.1908	14.39	-48.5°	0.5543	5.13	-12°	0.9597	0.36	24.5°	0.8574	1.34	61°	0.4134	7.67
-84.5°	0.1943	14.23	-48°	0.5607	5.03	-11.5°	0.9627	0.33	25°	0.8519	1.39	61.5°	0.4079	7.79
-84°	0.1978	14.07	-47.5°	0.5670	4.93	-11°	0.9656	0.30	25.5°	0.8465	1.45	62°	0.4025	7.90
-83.5°	0.2013	13.92	-47°	0.5733	4.83	-10.5°	0.9685	0.28	26°	0.8412	1.50	62.5°	0.3971	8.02
-83°	0.2049	13.77	-46.5°	0.5797	4.74	-10°	0.9714	0.25	26.5°	0.8354	1.56	63°	0.3917	8.14
-82.5°	0.2085	13.62	-46°	0.5862	4.64	-9.5°	0.9738	0.23	27°	0.8297	1.62	63.5°	0.3864	8.26
-82°	0.2121	13.47	-45.5°	0.5925	4.55	-9°	0.9763	0.21	27.5°	0.8241	1.68	64°	0.3812	8.38
-81.5°	0.2158	13.32	-45°	0.5989	4.45	-8.5°	0.9787	0.19	28°	0.8185	1.74	64.5°	0.3760	8.50
-81°	0.2195	13.17	-44.5°	0.6054	4.36	-8°	0.9812	0.16	28.5°	0.8126	1.80	65°	0.3707	8.62
-80.5°	0.2233	13.02	-44°	0.6119	4.27	-7.5°	0.9831	0.15	29°	0.8066	1.87	65.5°	0.3656	8.74
-80°	0.2271	12.88	-43.5°	0.6183	4.18	-7°	0.9851	0.13	29.5°	0.8008	1.93	66°	0.3606	8.86
-79.5°	0.2309	12.73	-43°	0.6246	4.09	-6.5°	0.9870	0.11	30°	0.7950	1.99	66.5°	0.3555	8.98
-79°	0.2347	12.59	-42.5°	0.6311	4.00	-6°	0.9890	0.10	30.5°	0.7899	2.06	67°	0.3505	9.11
-78.5°	0.2387	12.44	-42°	0.6377	3.91	-5.5°	0.9904	0.08	31°	0.7828	2.13	67.5°	0.3455	9.23
-78°	0.2427	12.30	-41.5°	0.6440	3.82	-5°	0.9919	0.07	31.5°	0.7768	2.19	68°	0.3406	9.35
-77.5°	0.2467	12.16	-41°	0.6504	3.74	-4.5°	0.9933	0.06	32°	0.7708	2.26	68.5°	0.3358	9.48
-77°	0.2507	12.02	-40.5°	0.6569	3.65	-4°	0.9948	0.05	32.5°	0.7646	2.33	69°	0.3309	9.61
-76.5°	0.2548	11.87	-40°	0.6634	3.56	-3.5°	0.9957	0.04	33°	0.7583	2.40	69.5°	0.3262	9.73
-76°	0.2590	11.73	-39.5°	0.6698	3.48	-3°	0.9966	0.03	33.5°	0.7522	2.47	70°	0.3214	9.86
-75.5°	0.2632	11.60	-39°	0.6761	3.40	-2.5°	0.9975	0.02	34°	0.7461	2.54	70.5°	0.3167	9.99
-75°	0.2673	11.46	-38.5°	0.6826	3.32	-2°	0.9984	0.01	34.5°	0.7397	2.62	71°	0.3121	10.12
-74.5°	0.2717	11.32	-38°	0.6891	3.23	-1.5°	0.9988	0.01	35°	0.7334	2.69	71.5°	0.3075	10.24
-74°	0.2760	11.18	-37.5°	0.6954	3.16	-1°	0.9992	0.01	35.5°	0.7272	2.77	72°	0.3030	10.37
-73.5°	0.2804	11.05	-37°	0.7017	3.08	-0.5°	0.9996	0.00	36°	0.7209	2.84	72.5°	0.2985	10.50
-73°	0.2847	10.91	-36.5°	0.7081	3.00	0°	1.0000	-0.00	36.5°	0.7145	2.92	73°	0.2940	10.63
-72.5°	0.2892	10.78	-36°	0.7145	2.92	0.5°	0.9999	0.00	37°	0.7081	3.00	73.5°	0.2896	10.76
-72°	0.2937	10.64	-35.5°	0.7208	2.84	1°	0.9997	0.00	37.5°	0.7018	3.08	74°	0.2852	10.90
-71.5°	0.2983	10.51	-35°	0.7270	2.77	1.5°	0.9996	0.00	38°	0.6955	3.15	74.5°	0.2809	11.03
-71°	0.3028	10.38	-34.5°	0.7333	2.69	2°	0.9994	0.01	38.5°	0.6890	3.24	75°	0.2766	11.16
-70.5°	0.3075	10.24	-34°	0.7397	2.62	2.5°	0.9987	0.01	39°	0.6826	3.32	75.5°	0.2724	11.30
-70°	0.3122	10.11	-33.5°	0.7458	2.55	3°	0.9980	0.02	39.5°	0.6762	3.40	76°	0.2682	11.43
-69.5°	0.3170	9.98	-33°	0.7519	2.48	3.5°	0.9973	0.02	40°	0.6699	3.48	76.5°	0.2640	11.57
-69°	0.3217	9.85	-32.5°	0.7581	2.41	4°	0.9966	0.03	40.5°	0.6634	3.56	77°	0.2599	11.70
-68.5°	0.3266	9.72	-32°	0.7644	2.33	4.5°	0.9954	0.04	41°	0.6569	3.65	77.5°	0.2559	11.84
-68°	0.3315	9.59	-31.5°	0.7703	2.27	5°	0.9942	0.05	41.5°	0.6506	3.73	78°	0.2519	11.98
-67.5°	0.3364	9.46	-31°	0.7763	2.20	5.5°	0.9930	0.06	42°	0.6442	3.82	78.5°	0.2479	12.11
-67°	0.3413	9.34	-30.5°	0.7824	2.13	6°	0.9918	0.07	42.5°	0.6378	3.91	79°	0.2439	12.25
-66.5°	0.3464	9.21	-30°	0.7885	2.06	6.5°	0.9900	0.09	43°	0.6313	4.00	79.5°	0.2401	12.39
-66°	0.3515	9.08	-29.5°	0.7943	2.00	7°	0.9883	0.10	43.5°	0.6250	4.08	80°	0.2362	12.53
-65.5°	0.3566	8.96	-29°	0.8001	1.94	7.5°	0.9865	0.12	44°	0.6186	4.17	80.5°	0.2324	12.67
-65°	0.3617	8.83	-28.5°	0.8060	1.87	8°	0.9848	0.13	44.5°	0.6122	4.26	81°	0.2286	12.82
-64.5°	0.3670	8.71	-28°	0.8119	1.81	8.5°	0.9825	0.15	45°	0.6057	4.35	81.5°	0.2250	12.96
-64°	0.3722	8.58	-27.5°	0.8175	1.75	9°	0.9802	0.17	45.5°	0.5994	4.45	82°	0.2213	13.10
-63.5°	0.3775	8.46	-27°	0.8232	1.69	9.5°	0.9780	0.19	46°	0.5931	4.54	82.5°	0.2176	13.25
-63°	0.3828	8.34	-26.5°	0.8289	1.63	10°	0.9757	0.21	46.5°	0.5867	4.63	83°	0.2140	13.39
-62.5°	0.3882	8.22	-26°	0.8346	1.57	10.5°	0.9730	0.24	47°	0.5804	4.73	83.5°	0.2105	13.54
-62°	0.3937	8.10	-25.5°	0.8399	1.51	11°	0.9702	0.26	47.5°	0.5741	4.82	84°	0.2069	13.68
-61.5°	0.3991	7.98	-25°	0.8453	1.46	11.5°	0.9674	0.29	48°	0.5678	4.92	84.5°	0.2034	13.83
-61°	0.4046	7.86	-24.5°	0.8508	1.40	12°	0.9647	0.31	48.5°	0.5615	5.01	85°	0.2000	13.98
-60.5°	0.4102	7.74	-24°	0.8563	1.35	12.5°	0.9615	0.34	49°	0.5552	5.11	85.5°	0.1966	14.13
-60°	0.4158	7.62	-23.5°	0.8614	1.30	13°	0.9582	0.37	49.5°	0.5490	5.21	86°	0.1932	14.28
-59.5°	0.4215	7.50	-23°	0.8665	1.24	13.5°	0.9550	0.40	50°	0.5429	5.31	86.5°	0.1899	14.43
-59°	0.4271	7.39	-22.5°	0.8717	1.19	14°	0.9518	0.43	50.5°	0.5366	5.41	87°	0.1865	14.59
-58.5°	0.4329	7.27	-22°	0.8769	1.14	14.5°	0.9481	0.46	51°	0.5304	5.51	87.5°	0.1833	14.74
-58°	0.4386	7.16	-21.5°	0.8817	1.09	15°	0.9444	0.50	51.5°	0.5243	5.61	88°	0.1800	14.89
-57.5°	0.4444	7.04	-21°	0.8866	1.05	15.5°	0.9407	0.53	52°	0.5182	5.71	88.5°	0.1768	15.05
-57°	0.4502	6.93	-20.5°	0.8915	1.00	16°	0.9371	0.56	52.5°	0.5121	5.81	89°	0.1736	15.21
-56.5°	0.4561	6.82	-20°	0.8964	0.95	16.5°	0.9330	0.60	53°	0.5060	5.92	89.5°	0.1705	15.36
-56°	0.4621	6.71	-19.5°	0.9009	0.91	17°	0.9288	0.64	53.5°	0.5000	6.02	90°	0.1674	15.52
-55.5°	0.4680	6.60	-19°	0.9054	0.86	17.5°	0.9248	0.68	54°	0.4940	6.13			
-55°	0.4739	6.49	-18.5°	0.9099	0.82	18°	0.9207	0.72	54.5°	0.4880	6.23			
-54.5°	0.4800	6.38	-18°	0.9145	0.78	18.5°	0.9162	0.76	55°	0.4820	6.34			
-54°	0.4860	6.27	-17.5°	0.9186	0.74	19°	0.9117	0.80	55.5°	0.4761	6.45			

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