EFtX

Faixa de Frequência	76.1 a 108 MHz
Largura de Banda	3 MHz
Polarização	Vertical
Impedância	50 ohms
Ganho	(Vide tabela)
Máxima Potência	Sob Consulta
Conexão de Entrada	EIA 1 5/8", 3 1/8", 4 1/16"
VSWR	< 1.1:1
Resistência ao Vento	180 Km/h

Ganho							
Modelo	APVT-1	APVT-2	APVT-3	APVT-4	APVT-6	APVT-8	APVT-10
Vezes	1	2	3	4	6	8	10
dBd	5.08	8.25	10.1	11.4	13.22	14.45	15.51

CARACTERÍSTICAS CONSTRUTIVAS

Padrões de alimentação
Os sistemas podem ser fornecidos alimentados com linhas rígidas ou com divisor e cabos.

Material Empregado:
Estrutura em latão, cobre ou alumínio conforme projeto.
Fixadores em aço inox e isoladores em PTFE
Estrutura de sustentação em aço galvanizado

Montagem:
Fornecida com suportes compatíveis com tubos de 3,5" a 10" em aço

Acabamento:
Pintura na cor vermelha.

Acessórios:
Divisores de potência contruidos em latão e cobre com contatos internos prateados

Embalagem:
Caixa de madeira

Modelo:
APVT-(Nº NÍVEIS) - (FACES) - (FREQUÊNCIA) - (POTÊNCIA)
1 - 10   1 - 4   76.1 - 107.9Mhz   Kw

PAINEL VERTICAL FM c/ REFLETOR

Características Mecânicas

A   Altura da antena em mm
C   Centro de radiação em mm
P   Peso médio da antena em Kg
AE   Área de exposição (CaAc) da antena em m²

Modelo >	APVT-1				APVT-2				APVT-3				APVT-4				APVT-5				APVT-6			
Frequência	A	C	P	AE	A	C	P	AE	A	C	P	AE	A	C	P	AE	A	C	P	AE	A	C	P	AE
76.1 a 77.9	350	175			4253	2126			8156	4078			12058	6029			15961	7981			19864	9932		
78.1 a 80.9	350	175			4153	2076			7956	3978			11758	5879			15561	7781			19364	9682		
80.1 a 81.9	350	175			4058	2029			7766	3883			11474	5737			15181	7591			18889	9445		
82.1 a 83.9	350	175			3968	1984			7585	3793			11203	5601			14820	7410			18438	9219		
84.1 a 85.9	350	175			3882	1941			7413	3707			10945	5472			14476	7238			18008	9004		
86.1 a 87.9	350	175			3799	1900			7249	3624			10698	5349			14148	7074			17597	8799		
88.1 a 89.9	350	175	SOB CONSULTA		3721	1861	SOB CONSULTA		7092	3546	SOB CONSULTA		10464	5232	SOB CONSULTA		13835	6917	SOB CONSULTA		17206	8603	SOB CONSULTA	
90.1 a 91.9	350	175		0,15	3646	1823		0,43	6943	3471		0,71	10239	5120		0,99	13535	6768		1,27	16832	8416		1,55
92.1 a 93.9	350	175			3575	1787			6800	3400			10024	5012			13249	6625			16474	8237		
94.1 a 95.9	350	175			3506	1753			6662	3331			9819	4909			12975	6487			16131	8066		
96.1 a 97.9	350	175			3441	1720			6531	3266			9622	4811			12712	6356			15803	7901		
98.1 a 99.9	350	175			3378	1689			6405	3203			9433	4716			12460	6230			15488	7744		
100.1 a 101.9	350	175			3317	1659			6284	3142			9251	4626			12218	6109			15185	7593		
102.1 a 103.9	350	175			3259	1629			6168	3084			9077	4538			11986	5993			14895	7447		
104.1 a 105.9	350	175			3203	1602			6056	3028			8909	4455			11762	5881			14615	7308		
106.1 a 107.9	350	175			3149	1575			5948	2974			8748	4374			11547	5773			14346	7173		
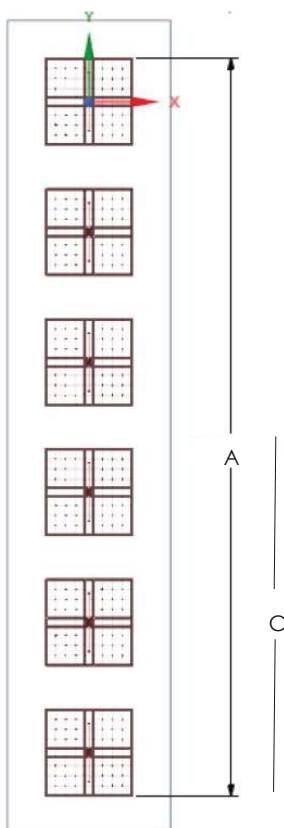
Diagramas de Radiação Horizontal - Escala E/Emáx
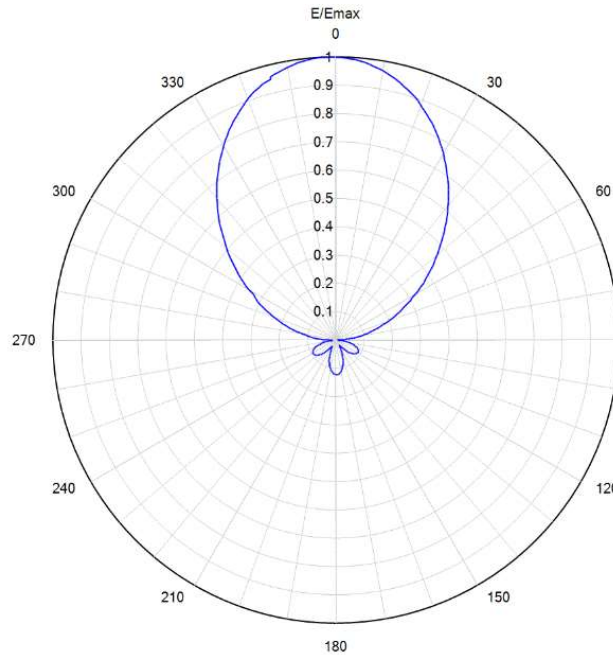
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.999	45	0.542	90	0.015	135	0.058	180	0.123	225	0.070	270	0.031	315	0.579
1	0.998	46	0.527	91	0.009	136	0.055	181	0.122	226	0.073	271	0.038	316	0.594
2	0.997	47	0.512	92	0.005	137	0.051	182	0.121	227	0.076	272	0.046	317	0.609
3	0.995	48	0.497	93	0.008	138	0.047	183	0.120	228	0.078	273	0.054	318	0.624
4	0.992	49	0.482	94	0.013	139	0.043	184	0.119	229	0.081	274	0.062	319	0.639
5	0.989	50	0.467	95	0.019	140	0.039	185	0.117	230	0.083	275	0.071	320	0.653
6	0.985	51	0.453	96	0.024	141	0.035	186	0.115	231	0.085	276	0.080	321	0.668
7	0.981	52	0.438	97	0.030	142	0.031	187	0.113	232	0.087	277	0.089	322	0.683
8	0.976	53	0.423	98	0.035	143	0.028	188	0.110	233	0.088	278	0.098	323	0.697
9	0.971	54	0.409	99	0.040	144	0.025	189	0.108	234	0.090	279	0.108	324	0.711
10	0.965	55	0.395	100	0.045	145	0.023	190	0.105	235	0.091	280	0.117	325	0.726
11	0.959	56	0.381	101	0.049	146	0.022	191	0.101	236	0.092	281	0.127	326	0.739
12	0.952	57	0.370	102	0.054	147	0.022	192	0.098	237	0.092	282	0.138	327	0.753
13	0.945	58	0.353	103	0.058	148	0.023	193	0.094	238	0.093	283	0.148	328	0.767
14	0.937	59	0.340	104	0.062	149	0.029	194	0.090	239	0.093	284	0.159	329	0.780
15	0.929	60	0.324	105	0.065	150	0.026	195	0.086	240	0.093	285	0.170	330	0.793
16	0.920	61	0.312	106	0.069	151	0.033	196	0.082	241	0.092	286	0.181	331	0.806
17	0.911	62	0.299	107	0.072	152	0.037	197	0.078	242	0.092	287	0.192	332	0.818
18	0.902	63	0.286	108	0.075	153	0.042	198	0.073	243	0.091	288	0.204	333	0.831
19	0.892	64	0.273	109	0.077	154	0.046	199	0.069	244	0.089	289	0.216	334	0.843
20	0.881	65	0.260	110	0.080	155	0.051	200	0.064	245	0.088	290	0.228	335	0.854
21	0.871	66	0.248	111	0.082	156	0.056	201	0.059	246	0.086	291	0.240	336	0.865
22	0.860	67	0.235	112	0.084	157	0.061	202	0.055	247	0.084	292	0.252	337	0.876
23	0.848	68	0.223	113	0.085	158	0.066	203	0.050	248	0.082	293	0.265	338	0.887
24	0.837	69	0.212	114	0.087	159	0.070	204	0.046	249	0.080	294	0.278	339	0.897
25	0.825	70	0.200	115	0.088	160	0.075	205	0.041	250	0.077	295	0.291	340	0.907
26	0.812	71	0.188	116	0.089	161	0.079	206	0.037	251	0.074	296	0.304	341	0.916
27	0.800	72	0.177	117	0.089	162	0.084	207	0.033	252	0.071	297	0.317	342	0.925
28	0.787	73	0.166	118	0.090	163	0.088	208	0.028	253	0.067	298	0.325	343	0.933
29	0.773	74	0.155	119	0.090	164	0.096	209	0.030	254	0.064	299	0.331	344	0.941
30	0.760	75	0.145	120	0.090	165	0.092	210	0.026	255	0.060	300	0.358	345	0.949
31	0.746	76	0.135	121	0.089	166	0.099	211	0.026	256	0.056	301	0.372	346	0.956
32	0.733	77	0.124	122	0.088	167	0.103	212	0.026	257	0.051	302	0.386	347	0.962
33	0.719	78	0.115	123	0.087	168	0.106	213	0.028	258	0.047	303	0.401	348	0.968
34	0.704	79	0.105	124	0.086	169	0.109	214	0.031	259	0.042	304	0.415	349	0.974
35	0.690	80	0.095	125	0.085	170	0.112	215	0.034	260	0.037	305	0.430	350	0.979
36	0.676	81	0.086	126	0.083	171	0.114	216	0.037	261	0.032	306	0.444	351	0.983
37	0.661	82	0.077	127	0.081	172	0.116	217	0.041	262	0.027	307	0.459	352	0.987
38	0.646	83	0.069	128	0.079	173	0.118	218	0.044	263	0.022	308	0.474	353	0.990
39	0.631	84	0.060	129	0.077	174	0.120	219	0.048	264	0.017	309	0.489	354	0.993
40	0.617	85	0.052	130	0.074	175	0.121	220	0.052	265	0.013	310	0.504	355	0.996
41	0.602	86	0.044	131	0.071	176	0.122	221	0.056	266	0.011	311	0.519	356	0.997
42	0.587	87	0.036	132	0.068	177	0.123	222	0.059	267	0.013	312	0.534	357	0.999
43	0.572	88	0.029	133	0.065	178	0.123	223	0.063	268	0.018	313	0.549	358	0.999
44	0.557	89	0.021	134	0.062	179	0.123	224	0.066	269	0.024	314	0.564	359	1.000

Elevação 1 Nível

E/Emax vs Angle of Depression (degrees)
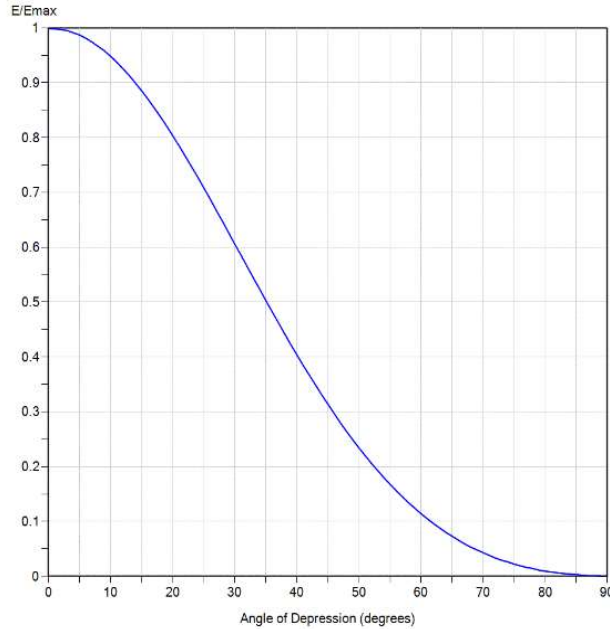
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.940	2.4	0.996	10.6	0.941	30.5	0.595	51.0	0.220	71.5	0.035
-9.5	0.945	2.6	0.996	10.8	0.939	31.0	0.585	51.5	0.213	72.0	0.033
-9.0	0.950	2.8	0.995	11.0	0.937	31.5	0.575	52.0	0.206	72.5	0.031
-8.5	0.955	3.0	0.995	11.5	0.931	32.0	0.564	52.5	0.199	73.0	0.029
-8.0	0.960	3.2	0.994	12.0	0.925	32.5	0.554	53.0	0.193	73.5	0.027
-7.5	0.964	3.4	0.993	12.5	0.919	33.0	0.543	53.5	0.186	74.0	0.026
-7.0	0.968	3.6	0.993	13.0	0.913	33.5	0.533	54.0	0.180	74.5	0.024
-6.5	0.972	3.8	0.992	13.5	0.906	34.0	0.523	54.5	0.174	75.0	0.022
-6.0	0.976	4.0	0.991	14.0	0.899	34.5	0.513	55.0	0.168	75.5	0.020
-5.5	0.979	4.2	0.990	14.5	0.892	35.0	0.502	55.5	0.162	76.0	0.019
-5.0	0.982	4.4	0.989	15.0	0.885	35.5	0.493	56.0	0.156	76.5	0.017
-4.5	0.985	4.6	0.989	15.5	0.878	36.0	0.483	56.5	0.150	77.0	0.016
-4.0	0.988	4.8	0.988	16.0	0.870	36.5	0.473	57.0	0.145	77.5	0.015
-3.5	0.990	5.0	0.987	16.5	0.862	37.0	0.463	57.5	0.139	78.0	0.014
-3.0	0.992	5.2	0.986	17.0	0.854	37.5	0.453	58.0	0.134	78.5	0.012
-2.8	0.993	5.4	0.985	17.5	0.846	38.0	0.443	58.5	0.129	79.0	0.011
-2.6	0.993	5.6	0.983	18.0	0.838	38.5	0.433	59.0	0.124	79.5	0.010
-2.4	0.994	5.8	0.982	18.5	0.830	39.0	0.423	59.5	0.119	80.0	0.009
-2.2	0.994	6.0	0.981	19.0	0.821	39.5	0.413	60.0	0.114	80.5	0.008
-2.0	0.995	6.2	0.980	19.5	0.812	40.0	0.404	60.5	0.109	81.0	0.008
-1.8	0.996	6.4	0.978	20.0	0.803	40.5	0.394	61.0	0.105	81.5	0.007
-1.6	0.996	6.6	0.977	20.5	0.794	41.0	0.385	61.5	0.100	82.0	0.006
-1.4	0.997	6.8	0.975	21.0	0.785	41.5	0.376	62.0	0.096	82.5	0.005
-1.2	0.997	7.0	0.974	21.5	0.776	42.0	0.367	62.5	0.092	83.0	0.005
-1.0	0.998	7.2	0.972	22.0	0.766	42.5	0.358	63.0	0.088	83.5	0.004
-0.8	0.998	7.4	0.971	22.5	0.757	43.0	0.349	63.5	0.084	84.0	0.004
-0.6	0.998	7.6	0.969	23.0	0.747	43.5	0.340	64.0	0.080	84.5	0.003
-0.4	0.999	7.8	0.968	23.5	0.738	44.0	0.331	64.5	0.076	85.0	0.003
-0.2	0.999	8.0	0.966	24.0	0.728	44.5	0.322	65.0	0.073	85.5	0.002
0.0	0.999	8.2	0.964	24.5	0.718	45.0	0.314	65.5	0.069	86.0	0.002
0.2	0.999	8.4	0.963	25.0	0.708	45.5	0.305	66.0	0.066	86.5	0.001
0.4	0.999	8.6	0.961	25.5	0.698	46.0	0.297	66.5	0.062	87.0	0.001
0.6	0.998	8.8	0.960	26.0	0.688	46.5	0.288	67.0	0.059	87.5	0.001
0.8	0.998	9.0	0.958	26.5	0.678	47.0	0.280	67.5	0.056	88.0	0.001
1.0	0.998	9.2	0.956	27.0	0.667	47.5	0.272	68.0	0.053	88.5	0.000
1.2	0.998	9.4	0.954	27.5	0.657	48.0	0.264	68.5	0.050	89.0	0.000
1.4	0.998	9.6	0.952	28.0	0.647	48.5	0.256	69.0	0.048	89.5	0.000
1.6	0.997	9.8	0.950	28.5	0.637	49.0	0.249	69.5	0.045	90.0	0.000
1.8	0.997	10.0	0.948	29.0	0.626	49.5	0.241	70.0	0.043		
2.0	0.997	10.2	0.946	29.5	0.616	50.0	0.234	70.5	0.040		
2.2	0.997	10.4	0.944	30.0	0.605	50.5	0.227	71.0	0.038		

Elevação 2 Nível
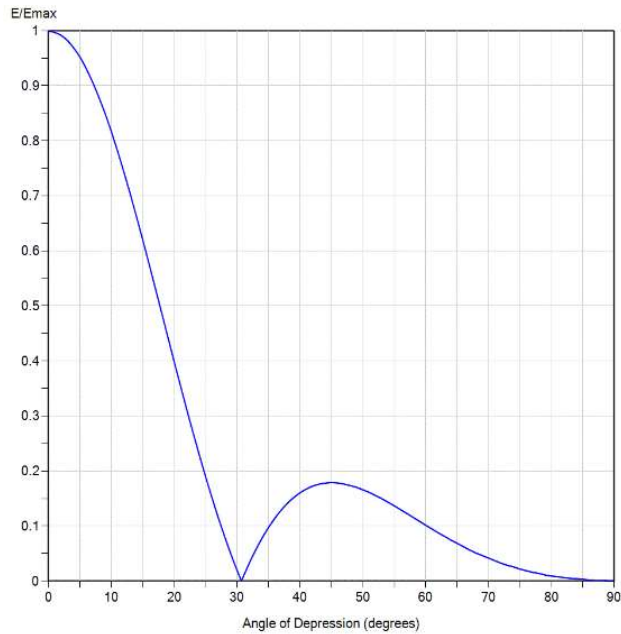
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.809	2.4	0.988	10.6	0.794	30.5	0.005	51.0	0.161	71.5	0.035
-9.5	0.826	2.6	0.986	10.8	0.787	31.0	0.009	51.5	0.158	72.0	0.032
-9.0	0.842	2.8	0.984	11.0	0.780	31.5	0.022	52.0	0.155	72.5	0.030
-8.5	0.858	3.0	0.982	11.5	0.761	32.0	0.034	52.5	0.153	73.0	0.028
-8.0	0.873	3.2	0.980	12.0	0.742	32.5	0.046	53.0	0.150	73.5	0.027
-7.5	0.887	3.4	0.977	12.5	0.722	33.0	0.058	53.5	0.146	74.0	0.026
-7.0	0.901	3.6	0.974	13.0	0.703	33.5	0.068	54.0	0.143	74.5	0.024
-6.5	0.914	3.8	0.971	13.5	0.682	34.0	0.079	54.5	0.140	75.0	0.022
-6.0	0.926	4.0	0.968	14.0	0.661	34.5	0.088	55.0	0.137	75.5	0.020
-5.5	0.937	4.2	0.965	14.5	0.640	35.0	0.097	55.5	0.133	76.0	0.019
-5.0	0.947	4.4	0.962	15.0	0.619	35.5	0.106	56.0	0.130	76.5	0.017
-4.5	0.956	4.6	0.959	15.5	0.597	36.0	0.114	56.5	0.126	77.0	0.016
-4.0	0.965	4.8	0.955	16.0	0.575	36.5	0.122	57.0	0.123	77.5	0.015
-3.5	0.973	5.0	0.952	16.5	0.553	37.0	0.129	57.5	0.119	78.0	0.014
-3.0	0.979	5.2	0.948	17.0	0.531	37.5	0.135	58.0	0.115	78.5	0.012
-2.8	0.981	5.4	0.944	17.5	0.509	38.0	0.141	58.5	0.112	79.0	0.011
-2.6	0.984	5.6	0.939	18.0	0.487	38.5	0.147	59.0	0.109	79.5	0.010
-2.4	0.986	5.8	0.935	18.5	0.464	39.0	0.152	59.5	0.105	80.0	0.009
-2.2	0.987	6.0	0.931	19.0	0.442	39.5	0.156	60.0	0.101	80.5	0.008
-2.0	0.989	6.2	0.926	19.5	0.420	40.0	0.160	60.5	0.098	81.0	0.008
-1.8	0.991	6.4	0.921	20.0	0.398	40.5	0.164	61.0	0.095	81.5	0.007
-1.6	0.993	6.6	0.916	20.5	0.376	41.0	0.167	61.5	0.091	82.0	0.006
-1.4	0.994	6.8	0.911	21.0	0.354	41.5	0.170	62.0	0.087	82.5	0.005
-1.2	0.995	7.0	0.906	21.5	0.332	42.0	0.172	62.5	0.084	83.0	0.005
-1.0	0.997	7.2	0.901	22.0	0.311	42.5	0.174	63.0	0.081	83.5	0.004
-0.8	0.997	7.4	0.895	22.5	0.290	43.0	0.176	63.5	0.078	84.0	0.004
-0.6	0.998	7.6	0.890	23.0	0.269	43.5	0.177	64.0	0.074	84.5	0.003
-0.4	0.998	7.8	0.884	23.5	0.248	44.0	0.178	64.5	0.071	85.0	0.003
-0.2	0.999	8.0	0.879	24.0	0.228	44.5	0.178	65.0	0.068	85.5	0.002
0.0	0.999	8.2	0.873	24.5	0.208	45.0	0.179	65.5	0.065	86.0	0.002
0.2	0.999	8.4	0.867	25.0	0.189	45.5	0.179	66.0	0.062	86.5	0.001
0.4	0.998	8.6	0.861	25.5	0.170	46.0	0.178	66.5	0.059	87.0	0.001
0.6	0.998	8.8	0.855	26.0	0.151	46.5	0.177	67.0	0.056	87.5	0.001
0.8	0.997	9.0	0.849	26.5	0.133	47.0	0.176	67.5	0.053	88.0	0.001
1.0	0.997	9.2	0.843	27.0	0.115	47.5	0.175	68.0	0.051	88.5	0.000
1.2	0.996	9.4	0.836	27.5	0.098	48.0	0.173	68.5	0.049	89.0	0.000
1.4	0.995	9.6	0.829	28.0	0.081	48.5	0.172	69.0	0.046	89.5	0.000
1.6	0.994	9.8	0.823	28.5	0.065	49.0	0.170	69.5	0.044	90.0	0.000
1.8	0.993	10.0	0.816	29.0	0.049	49.5	0.168	70.0	0.042		
2.0	0.991	10.2	0.809	29.5	0.034	50.0	0.166	70.5	0.039		
2.2	0.990	10.4	0.802	30.0	0.019	50.5	0.163	71.0	0.037		

Elevação 3 Nível
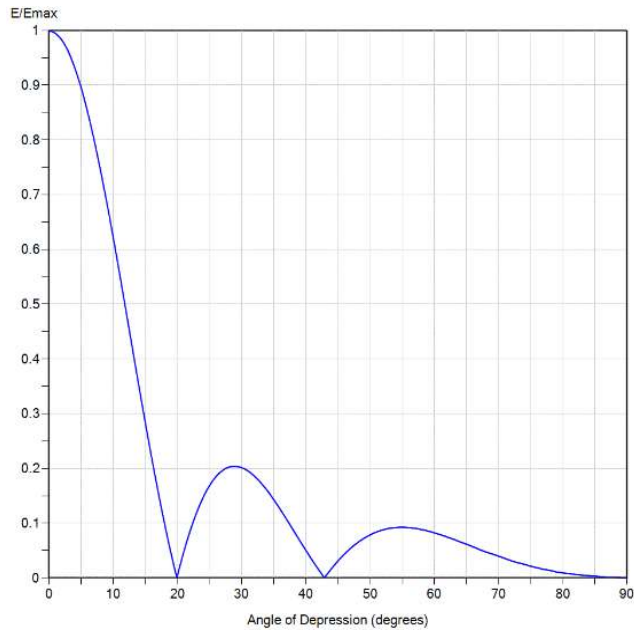
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.615	2.4	0.974	10.6	0.580	30.5	0.198	51.0	0.084	71.5	0.033
-9.5	0.647	2.6	0.970	10.8	0.567	31.0	0.195	51.5	0.086	72.0	0.031
-9.0	0.678	2.8	0.966	11.0	0.553	31.5	0.191	52.0	0.088	72.5	0.029
-8.5	0.709	3.0	0.961	11.5	0.519	32.0	0.185	52.5	0.089	73.0	0.027
-8.0	0.739	3.2	0.955	12.0	0.485	32.5	0.180	53.0	0.090	73.5	0.026
-7.5	0.767	3.4	0.950	12.5	0.451	33.0	0.173	53.5	0.091	74.0	0.025
-7.0	0.795	3.6	0.944	13.0	0.417	33.5	0.166	54.0	0.092	74.5	0.023
-6.5	0.821	3.8	0.938	13.5	0.382	34.0	0.159	54.5	0.092	75.0	0.021
-6.0	0.846	4.0	0.931	14.0	0.348	34.5	0.151	55.0	0.092	75.5	0.020
-5.5	0.869	4.2	0.924	14.5	0.315	35.0	0.142	55.5	0.092	76.0	0.018
-5.0	0.890	4.4	0.917	15.0	0.282	35.5	0.134	56.0	0.092	76.5	0.017
-4.5	0.910	4.6	0.910	15.5	0.249	36.0	0.125	56.5	0.091	77.0	0.016
-4.0	0.928	4.8	0.902	16.0	0.217	36.5	0.116	57.0	0.090	77.5	0.015
-3.5	0.944	5.0	0.895	16.5	0.186	37.0	0.106	57.5	0.089	78.0	0.014
-3.0	0.958	5.2	0.886	17.0	0.155	37.5	0.097	58.0	0.088	78.5	0.012
-2.8	0.963	5.4	0.877	17.5	0.126	38.0	0.087	58.5	0.087	79.0	0.011
-2.6	0.968	5.6	0.869	18.0	0.097	38.5	0.078	59.0	0.086	79.5	0.010
-2.4	0.972	5.8	0.859	18.5	0.070	39.0	0.068	59.5	0.084	80.0	0.009
-2.2	0.976	6.0	0.850	19.0	0.044	39.5	0.059	60.0	0.082	80.5	0.008
-2.0	0.980	6.2	0.840	19.5	0.018	40.0	0.050	60.5	0.080	81.0	0.008
-1.8	0.983	6.4	0.831	20.0	0.005	40.5	0.041	61.0	0.079	81.5	0.007
-1.6	0.986	6.6	0.820	20.5	0.028	41.0	0.032	61.5	0.077	82.0	0.006
-1.4	0.989	6.8	0.810	21.0	0.049	41.5	0.023	62.0	0.074	82.5	0.005
-1.2	0.992	7.0	0.800	21.5	0.069	42.0	0.014	62.5	0.072	83.0	0.005
-1.0	0.994	7.2	0.789	22.0	0.087	42.5	0.006	63.0	0.070	83.5	0.004
-0.8	0.996	7.4	0.778	22.5	0.105	43.0	0.002	63.5	0.068	84.0	0.004
-0.6	0.997	7.6	0.767	23.0	0.120	43.5	0.010	64.0	0.066	84.5	0.003
-0.4	0.998	7.8	0.755	23.5	0.135	44.0	0.017	64.5	0.064	85.0	0.003
-0.2	0.999	8.0	0.744	24.0	0.148	44.5	0.024	65.0	0.061	85.5	0.002
0.0	0.999	8.2	0.732	24.5	0.159	45.0	0.031	65.5	0.059	86.0	0.002
0.2	0.999	8.4	0.720	25.0	0.169	45.5	0.038	66.0	0.057	86.5	0.001
0.4	0.998	8.6	0.708	25.5	0.178	46.0	0.044	66.5	0.054	87.0	0.001
0.6	0.997	8.8	0.696	26.0	0.185	46.5	0.049	67.0	0.052	87.5	0.001
0.8	0.996	9.0	0.684	26.5	0.191	47.0	0.055	67.5	0.050	88.0	0.001
1.0	0.994	9.2	0.671	27.0	0.196	47.5	0.059	68.0	0.047	88.5	0.000
1.2	0.992	9.4	0.659	27.5	0.200	48.0	0.064	68.5	0.045	89.0	0.000
1.4	0.990	9.6	0.646	28.0	0.202	48.5	0.068	69.0	0.043	89.5	0.000
1.6	0.988	9.8	0.633	28.5	0.204	49.0	0.072	69.5	0.042	90.0	0.000
1.8	0.985	10.0	0.620	29.0	0.204	49.5	0.076	70.0	0.039		
2.0	0.982	10.2	0.607	29.5	0.203	50.0	0.079	70.5	0.037		
2.2	0.978	10.4	0.593	30.0	0.201	50.5	0.081	71.0	0.035		

PAINEL VERTICAL FM c/ REFLETOR

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Elevação 4 Nível
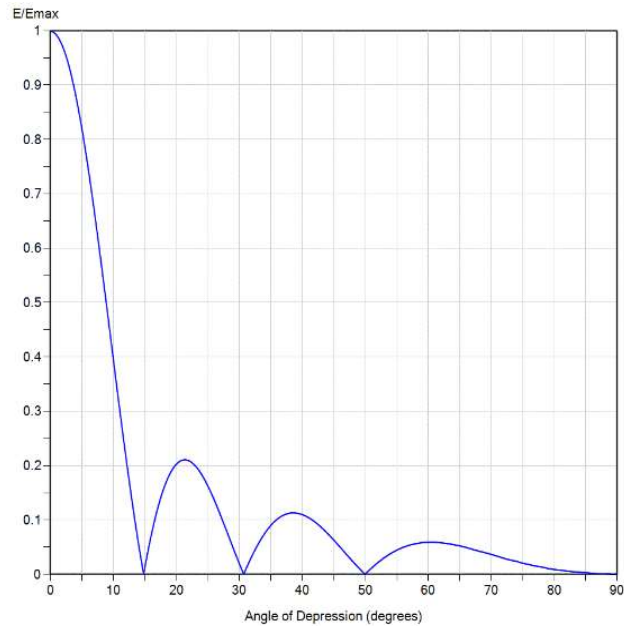
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.389	2.4	0.955	10.6	0.337	30.5	0.005	51.0	0.012	71.5	0.031
-9.5	0.435	2.6	0.948	10.8	0.319	31.0	0.009	51.5	0.017	72.0	0.029
-9.0	0.481	2.8	0.940	11.0	0.301	31.5	0.022	52.0	0.022	72.5	0.028
-8.5	0.526	3.0	0.932	11.5	0.256	32.0	0.034	52.5	0.026	73.0	0.026
-8.0	0.572	3.2	0.922	12.0	0.213	32.5	0.046	53.0	0.030	73.5	0.025
-7.5	0.616	3.4	0.912	12.5	0.170	33.0	0.056	53.5	0.034	74.0	0.024
-7.0	0.659	3.6	0.902	13.0	0.130	33.5	0.066	54.0	0.038	74.5	0.022
-6.5	0.700	3.8	0.891	13.5	0.091	34.0	0.075	54.5	0.041	75.0	0.020
-6.0	0.741	4.0	0.880	14.0	0.054	34.5	0.083	55.0	0.044	75.5	0.019
-5.5	0.778	4.2	0.869	14.5	0.019	35.0	0.090	55.5	0.047	76.0	0.018
-5.0	0.814	4.4	0.857	15.0	0.014	35.5	0.096	56.0	0.050	76.5	0.017
-4.5	0.847	4.6	0.844	15.5	0.045	36.0	0.101	56.5	0.052	77.0	0.015
-4.0	0.878	4.8	0.831	16.0	0.073	36.5	0.106	57.0	0.054	77.5	0.014
-3.5	0.905	5.0	0.818	16.5	0.098	37.0	0.109	57.5	0.055	78.0	0.013
-3.0	0.929	5.2	0.804	17.0	0.121	37.5	0.111	58.0	0.056	78.5	0.012
-2.8	0.937	5.4	0.790	17.5	0.141	38.0	0.112	58.5	0.057	79.0	0.011
-2.6	0.945	5.6	0.775	18.0	0.159	38.5	0.113	59.0	0.058	79.5	0.010
-2.4	0.953	5.8	0.760	18.5	0.174	39.0	0.113	59.5	0.059	80.0	0.009
-2.2	0.960	6.0	0.744	19.0	0.186	39.5	0.112	60.0	0.059	80.5	0.008
-2.0	0.967	6.2	0.729	19.5	0.196	40.0	0.110	60.5	0.059	81.0	0.008
-1.8	0.972	6.4	0.713	20.0	0.203	40.5	0.107	61.0	0.059	81.5	0.007
-1.6	0.978	6.6	0.696	20.5	0.208	41.0	0.104	61.5	0.059	82.0	0.006
-1.4	0.983	6.8	0.680	21.0	0.210	41.5	0.100	62.0	0.058	82.5	0.005
-1.2	0.987	7.0	0.663	21.5	0.210	42.0	0.096	62.5	0.057	83.0	0.005
-1.0	0.991	7.2	0.646	22.0	0.209	42.5	0.091	63.0	0.057	83.5	0.004
-0.8	0.994	7.4	0.628	22.5	0.205	43.0	0.086	63.5	0.056	84.0	0.004
-0.6	0.996	7.6	0.611	23.0	0.199	43.5	0.081	64.0	0.054	84.5	0.003
-0.4	0.997	7.8	0.593	23.5	0.192	44.0	0.075	64.5	0.053	85.0	0.003
-0.2	0.999	8.0	0.575	24.0	0.183	44.5	0.069	65.0	0.052	85.5	0.002
0.0	0.999	8.2	0.557	24.5	0.173	45.0	0.063	65.5	0.051	86.0	0.002
0.2	0.999	8.4	0.539	25.0	0.162	45.5	0.056	66.0	0.049	86.5	0.001
0.4	0.997	8.6	0.521	25.5	0.150	46.0	0.050	66.5	0.048	87.0	0.001
0.6	0.996	8.8	0.503	26.0	0.136	46.5	0.043	67.0	0.046	87.5	0.001
0.8	0.994	9.0	0.485	26.5	0.123	47.0	0.037	67.5	0.044	88.0	0.001
1.0	0.991	9.2	0.466	27.0	0.108	47.5	0.030	68.0	0.043	88.5	0.000
1.2	0.987	9.4	0.448	27.5	0.093	48.0	0.024	68.5	0.041	89.0	0.000
1.4	0.984	9.6	0.429	28.0	0.078	48.5	0.017	69.0	0.040	89.5	0.000
1.6	0.979	9.8	0.411	28.5	0.063	49.0	0.011	69.5	0.038	90.0	0.000
1.8	0.974	10.0	0.392	29.0	0.048	49.5	0.005	70.0	0.037		
2.0	0.968	10.2	0.374	29.5	0.033	50.0	0.001	70.5	0.035		
2.2	0.962	10.4	0.355	30.0	0.019	50.5	0.006	71.0	0.033		

Elevação 6 Nível
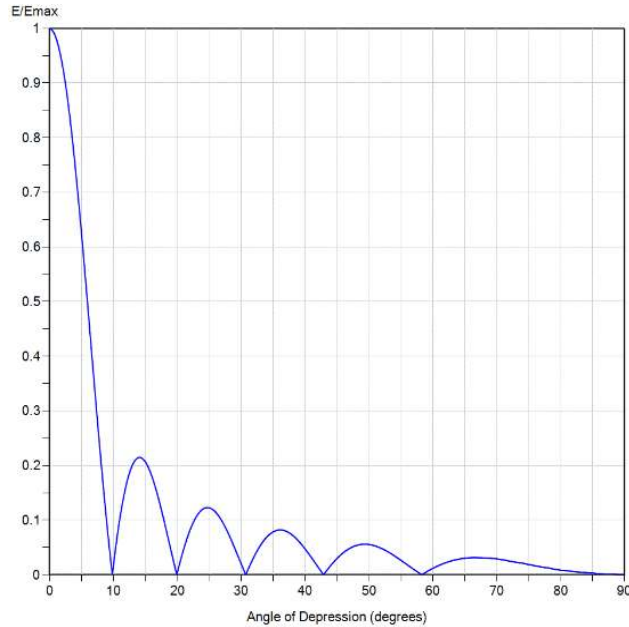
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.020	2.4	0.902	10.6	0.074	30.5	0.005	51.0	0.053	71.5	0.026
-9.5	0.030	2.6	0.886	10.8	0.090	31.0	0.009	51.5	0.050	72.0	0.025
-9.0	0.085	2.8	0.869	11.0	0.105	31.5	0.022	52.0	0.048	72.5	0.024
-8.5	0.145	3.0	0.851	11.5	0.139	32.0	0.034	52.5	0.045	73.0	0.023
-8.0	0.208	3.2	0.831	12.0	0.166	32.5	0.044	53.0	0.042	73.5	0.022
-7.5	0.274	3.4	0.811	12.5	0.187	33.0	0.054	53.5	0.038	74.0	0.021
-7.0	0.342	3.6	0.789	13.0	0.202	33.5	0.062	54.0	0.034	74.5	0.020
-6.5	0.412	3.8	0.767	13.5	0.211	34.0	0.069	54.5	0.030	75.0	0.019
-6.0	0.481	4.0	0.744	14.0	0.215	34.5	0.075	55.0	0.026	75.5	0.018
-5.5	0.550	4.2	0.721	14.5	0.213	35.0	0.079	55.5	0.022	76.0	0.016
-5.0	0.617	4.4	0.696	15.0	0.206	35.5	0.081	56.0	0.018	76.5	0.015
-4.5	0.681	4.6	0.671	15.5	0.195	36.0	0.082	56.5	0.014	77.0	0.014
-4.0	0.742	4.8	0.646	16.0	0.180	36.5	0.082	57.0	0.010	77.5	0.013
-3.5	0.798	5.0	0.620	16.5	0.161	37.0	0.080	57.5	0.006	78.0	0.013
-3.0	0.848	5.2	0.593	17.0	0.140	37.5	0.077	58.0	0.002	78.5	0.011
-2.8	0.867	5.4	0.566	17.5	0.117	38.0	0.072	58.5	0.002	79.0	0.010
-2.6	0.884	5.6	0.539	18.0	0.093	38.5	0.067	59.0	0.005	79.5	0.009
-2.4	0.900	5.8	0.511	18.5	0.068	39.0	0.061	59.5	0.009	80.0	0.008
-2.2	0.915	6.0	0.484	19.0	0.043	39.5	0.054	60.0	0.012	80.5	0.008
-2.0	0.929	6.2	0.456	19.5	0.018	40.0	0.047	60.5	0.015	81.0	0.008
-1.8	0.942	6.4	0.428	20.0	0.005	40.5	0.039	61.0	0.017	81.5	0.007
-1.6	0.954	6.6	0.400	20.5	0.028	41.0	0.031	61.5	0.020	82.0	0.006
-1.4	0.964	6.8	0.372	21.0	0.048	41.5	0.022	62.0	0.022	82.5	0.005
-1.2	0.973	7.0	0.344	21.5	0.067	42.0	0.014	62.5	0.024	83.0	0.005
-1.0	0.981	7.2	0.317	22.0	0.083	42.5	0.006	63.0	0.026	83.5	0.004
-0.8	0.987	7.4	0.289	22.5	0.097	43.0	0.002	63.5	0.027	84.0	0.004
-0.6	0.992	7.6	0.262	23.0	0.107	43.5	0.010	64.0	0.028	84.5	0.003
-0.4	0.996	7.8	0.236	23.5	0.115	44.0	0.017	64.5	0.030	85.0	0.003
-0.2	0.998	8.0	0.209	24.0	0.120	44.5	0.024	65.0	0.030	85.5	0.002
0.0	0.999	8.2	0.184	24.5	0.123	45.0	0.030	65.5	0.031	86.0	0.002
0.2	0.998	8.4	0.158	25.0	0.122	45.5	0.036	66.0	0.031	86.5	0.001
0.4	0.996	8.6	0.134	25.5	0.119	46.0	0.041	66.5	0.031	87.0	0.001
0.6	0.992	8.8	0.109	26.0	0.114	46.5	0.045	67.0	0.031	87.5	0.001
0.8	0.987	9.0	0.086	26.5	0.107	47.0	0.049	67.5	0.031	88.0	0.001
1.0	0.981	9.2	0.063	27.0	0.097	47.5	0.051	68.0	0.031	88.5	0.000
1.2	0.974	9.4	0.041	27.5	0.086	48.0	0.054	68.5	0.031	89.0	0.000
1.4	0.965	9.6	0.020	28.0	0.074	48.5	0.055	69.0	0.030	89.5	0.000
1.6	0.955	9.8	0.001	28.5	0.061	49.0	0.056	69.5	0.030	90.0	0.000
1.8	0.944	10.0	0.020	29.0	0.047	49.5	0.056	70.0	0.029		
2.0	0.931	10.2	0.039	29.5	0.033	50.0	0.055	70.5	0.028		
2.2	0.917	10.4	0.057	30.0	0.019	50.5	0.054	71.0	0.027		

Elevação 8 Nível
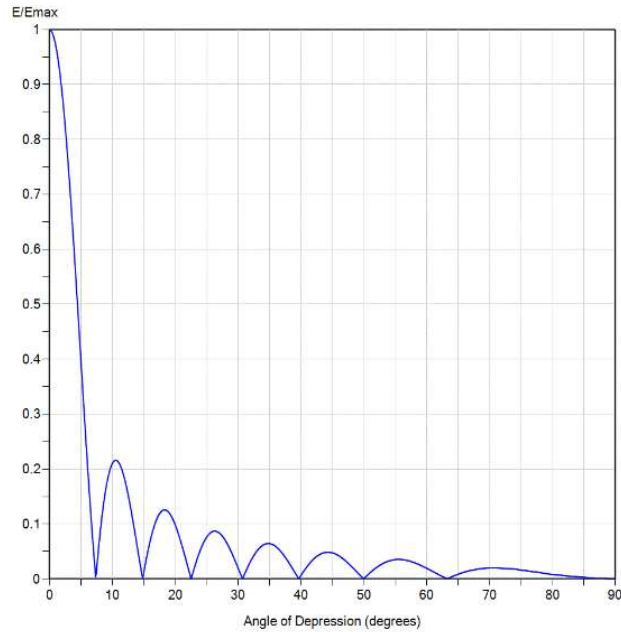
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.209	2.4	0.831	10.6	0.216	30.5	0.005	51.0	0.012	71.5	0.020
-9.5	0.194	2.6	0.804	10.8	0.214	31.0	0.009	51.5	0.016	72.0	0.019
-9.0	0.167	2.8	0.775	11.0	0.211	31.5	0.021	52.0	0.021	72.5	0.019
-8.5	0.130	3.0	0.745	11.5	0.198	32.0	0.033	52.5	0.025	73.0	0.018
-8.0	0.082	3.2	0.713	12.0	0.178	32.5	0.043	53.0	0.028	73.5	0.018
-7.5	0.023	3.4	0.680	12.5	0.151	33.0	0.051	53.5	0.031	74.0	0.018
-7.0	0.046	3.6	0.646	13.0	0.121	33.5	0.058	54.0	0.033	74.5	0.017
-6.5	0.123	3.8	0.611	13.5	0.087	34.0	0.062	54.5	0.034	75.0	0.016
-6.0	0.207	4.0	0.575	14.0	0.053	34.5	0.064	55.0	0.035	75.5	0.015
-5.5	0.296	4.2	0.539	14.5	0.019	35.0	0.064	55.5	0.035	76.0	0.015
-5.0	0.388	4.4	0.502	15.0	0.014	35.5	0.062	56.0	0.035	76.5	0.014
-4.5	0.481	4.6	0.465	15.5	0.044	36.0	0.059	56.5	0.034	77.0	0.013
-4.0	0.573	4.8	0.428	16.0	0.070	36.5	0.053	57.0	0.033	77.5	0.012
-3.5	0.661	5.0	0.390	16.5	0.092	37.0	0.047	57.5	0.032	78.0	0.012
-3.0	0.742	5.2	0.353	17.0	0.108	37.5	0.039	58.0	0.030	78.5	0.011
-2.8	0.773	5.4	0.316	17.5	0.119	38.0	0.030	58.5	0.027	79.0	0.009
-2.6	0.802	5.6	0.280	18.0	0.125	38.5	0.021	59.0	0.025	79.5	0.009
-2.4	0.829	5.8	0.244	18.5	0.125	39.0	0.012	59.5	0.022	80.0	0.008
-2.2	0.855	6.0	0.208	19.0	0.120	39.5	0.002	60.0	0.019	80.5	0.008
-2.0	0.879	6.2	0.174	19.5	0.111	40.0	0.007	60.5	0.016	81.0	0.007
-1.8	0.901	6.4	0.140	20.0	0.097	40.5	0.015	61.0	0.013	81.5	0.006
-1.6	0.921	6.6	0.108	20.5	0.081	41.0	0.023	61.5	0.010	82.0	0.005
-1.4	0.939	6.8	0.076	21.0	0.062	41.5	0.030	62.0	0.007	82.5	0.005
-1.2	0.954	7.0	0.046	21.5	0.042	42.0	0.036	62.5	0.004	83.0	0.005
-1.0	0.968	7.2	0.018	22.0	0.021	42.5	0.041	63.0	0.001	83.5	0.004
-0.8	0.979	7.4	0.010	22.5	0.000	43.0	0.045	63.5	0.001	84.0	0.004
-0.6	0.988	7.6	0.035	23.0	0.020	43.5	0.047	64.0	0.004	84.5	0.003
-0.4	0.994	7.8	0.060	23.5	0.038	44.0	0.048	64.5	0.006	85.0	0.003
-0.2	0.998	8.0	0.082	24.0	0.054	44.5	0.048	65.0	0.009	85.5	0.002
0.0	0.999	8.2	0.103	24.5	0.067	45.0	0.047	65.5	0.011	86.0	0.002
0.2	0.998	8.4	0.122	25.0	0.077	45.5	0.045	66.0	0.012	86.5	0.001
0.4	0.994	8.6	0.139	25.5	0.083	46.0	0.042	66.5	0.014	87.0	0.001
0.6	0.988	8.8	0.155	26.0	0.086	46.5	0.038	67.0	0.015	87.5	0.001
0.8	0.979	9.0	0.169	26.5	0.086	47.0	0.033	67.5	0.017	88.0	0.001
1.0	0.968	9.2	0.181	27.0	0.083	47.5	0.028	68.0	0.017	88.5	0.000
1.2	0.955	9.4	0.191	27.5	0.077	48.0	0.023	68.5	0.018	89.0	0.000
1.4	0.939	9.6	0.199	28.0	0.069	48.5	0.017	69.0	0.019	89.5	0.000
1.6	0.922	9.8	0.206	28.5	0.058	49.0	0.011	69.5	0.020	90.0	0.000
1.8	0.902	10.0	0.211	29.0	0.046	49.5	0.005	70.0	0.020		
2.0	0.880	10.2	0.214	29.5	0.033	50.0	0.001	70.5	0.020		
2.2	0.857	10.4	0.216	30.0	0.019	50.5	0.006	71.0	0.020		

Elevação 10 Nível
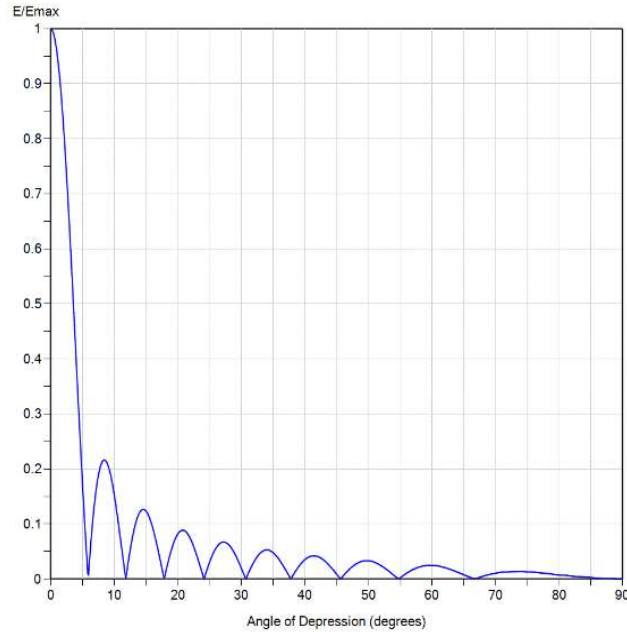
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.149	2.4	0.744	10.6	0.102	30.5	0.005	51.0	0.030	71.5	0.013
-9.5	0.181	2.6	0.705	10.8	0.085	31.0	0.009	51.5	0.027	72.0	0.013
-9.0	0.204	2.8	0.663	11.0	0.067	31.5	0.021	52.0	0.024	72.5	0.013
-8.5	0.214	3.0	0.620	11.5	0.023	32.0	0.032	52.5	0.020	73.0	0.014
-8.0	0.210	3.2	0.575	12.0	0.018	32.5	0.041	53.0	0.016	73.5	0.014
-7.5	0.189	3.4	0.529	12.5	0.055	33.0	0.048	53.5	0.011	74.0	0.014
-7.0	0.151	3.6	0.483	13.0	0.086	33.5	0.052	54.0	0.007	74.5	0.014
-6.5	0.096	3.8	0.436	13.5	0.108	34.0	0.053	54.5	0.002	75.0	0.013
-6.0	0.024	4.0	0.390	14.0	0.122	34.5	0.051	55.0	0.003	75.5	0.013
-5.5	0.064	4.2	0.343	14.5	0.127	35.0	0.048	55.5	0.007	76.0	0.012
-5.0	0.164	4.4	0.297	15.0	0.123	35.5	0.042	56.0	0.011	76.5	0.012
-4.5	0.273	4.6	0.252	15.5	0.111	36.0	0.034	56.5	0.014	77.0	0.011
-4.0	0.389	4.8	0.208	16.0	0.094	36.5	0.025	57.0	0.017	77.5	0.011
-3.5	0.505	5.0	0.165	16.5	0.071	37.0	0.015	57.5	0.020	78.0	0.010
-3.0	0.618	5.2	0.123	17.0	0.045	37.5	0.005	58.0	0.022	78.5	0.010
-2.8	0.661	5.4	0.083	17.5	0.018	38.0	0.005	58.5	0.023	79.0	0.009
-2.6	0.703	5.6	0.045	18.0	0.009	38.5	0.014	59.0	0.024	79.5	0.008
-2.4	0.743	5.8	0.010	18.5	0.034	39.0	0.023	59.5	0.025	80.0	0.007
-2.2	0.780	6.0	0.024	19.0	0.055	39.5	0.030	60.0	0.025	80.5	0.007
-2.0	0.816	6.2	0.055	19.5	0.071	40.0	0.036	60.5	0.024	81.0	0.007
-1.8	0.849	6.4	0.083	20.0	0.083	40.5	0.039	61.0	0.024	81.5	0.006
-1.6	0.879	6.6	0.109	20.5	0.088	41.0	0.042	61.5	0.022	82.0	0.005
-1.4	0.906	6.8	0.132	21.0	0.088	41.5	0.042	62.0	0.021	82.5	0.005
-1.2	0.930	7.0	0.152	21.5	0.082	42.0	0.041	62.5	0.019	83.0	0.004
-1.0	0.951	7.2	0.170	22.0	0.072	42.5	0.038	63.0	0.017	83.5	0.004
-0.8	0.968	7.4	0.184	22.5	0.058	43.0	0.034	63.5	0.015	84.0	0.004
-0.6	0.981	7.6	0.196	23.0	0.041	43.5	0.029	64.0	0.012	84.5	0.003
-0.4	0.991	7.8	0.205	23.5	0.022	44.0	0.022	64.5	0.010	85.0	0.003
-0.2	0.997	8.0	0.212	24.0	0.003	44.5	0.015	65.0	0.008	85.5	0.002
0.0	0.999	8.2	0.215	24.5	0.015	45.0	0.008	65.5	0.005	86.0	0.002
0.2	0.997	8.4	0.216	25.0	0.032	45.5	0.001	66.0	0.003	86.5	0.001
0.4	0.991	8.6	0.215	25.5	0.046	46.0	0.006	66.5	0.001	87.0	0.001
0.6	0.981	8.8	0.211	26.0	0.057	46.5	0.012	67.0	0.001	87.5	0.001
0.8	0.968	9.0	0.206	26.5	0.064	47.0	0.018	67.5	0.003	88.0	0.001
1.0	0.951	9.2	0.198	27.0	0.067	47.5	0.023	68.0	0.005	88.5	0.000
1.2	0.931	9.4	0.188	27.5	0.066	48.0	0.027	68.5	0.007	89.0	0.000
1.4	0.907	9.6	0.177	28.0	0.062	48.5	0.030	69.0	0.008	89.5	0.000
1.6	0.880	9.8	0.164	28.5	0.054	49.0	0.032	69.5	0.010	90.0	0.000
1.8	0.850	10.0	0.150	29.0	0.044	49.5	0.033	70.0	0.011		
2.0	0.818	10.2	0.135	29.5	0.032	50.0	0.033	70.5	0.012		
2.2	0.782	10.4	0.119	30.0	0.019	50.5	0.032	71.0	0.012		