

ERI[®] Horizontal Plane Relative Field Pattern

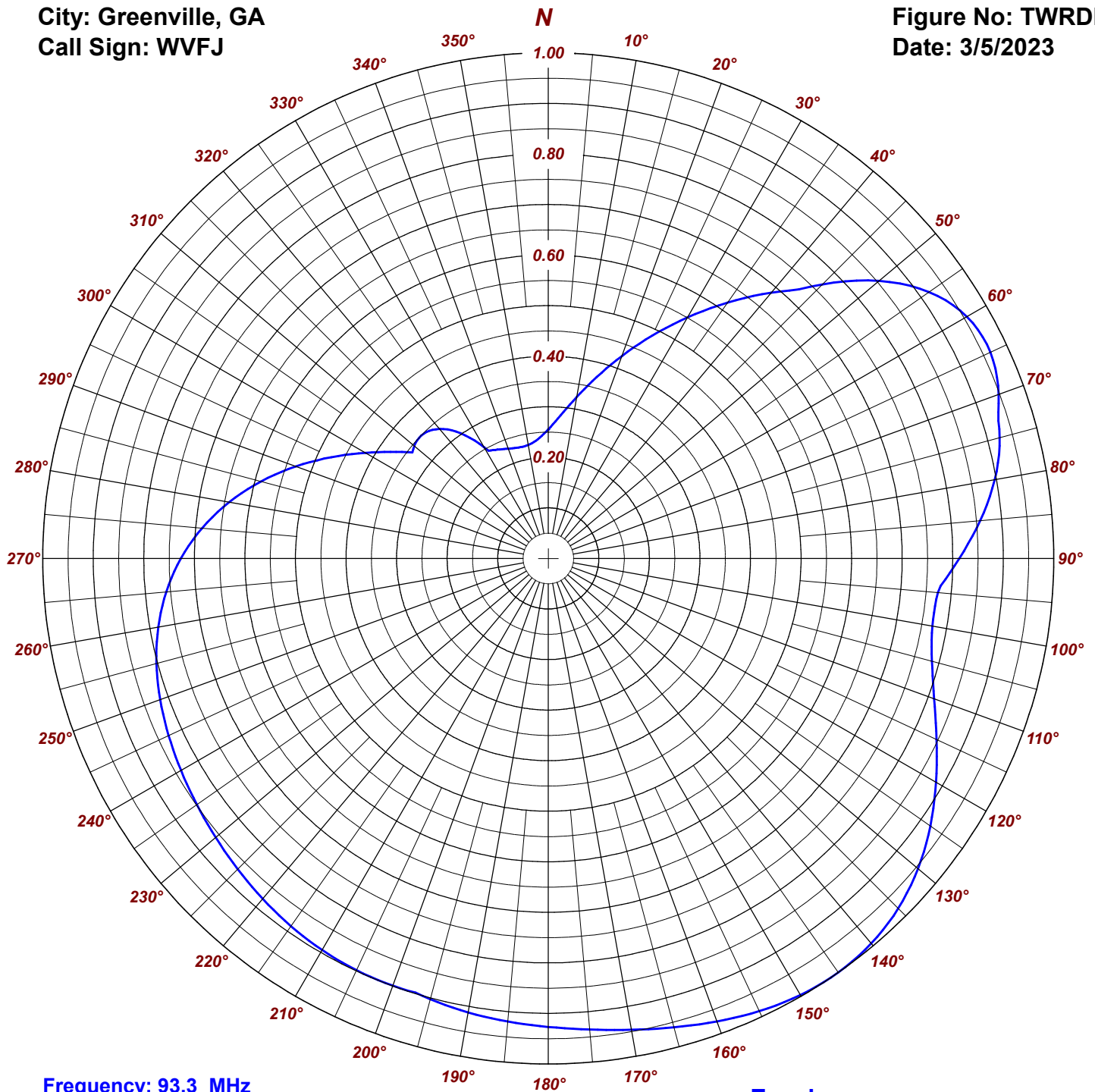
Electronics Research, Inc. 7777 Gardner Rd. Chandler, IN 47610 Phone(812) 925-6000 Fax(812) 925-4030 Web: www.eriinc.com

City: Greenville, GA

Call Sign: WVFJ

Figure No: TWRDB

Date: 3/5/2023



Frequency: 93.3 MHz

Antenna Type: LP-6E-HW-DA

Antenna Orientation: 141° True

Antenna Mounting: 171° LEG

Tower Type: 72" TOWER

Envelope

RMS: .755

Maximum: 1 @ 146°

Minimum: .227 @ 347°

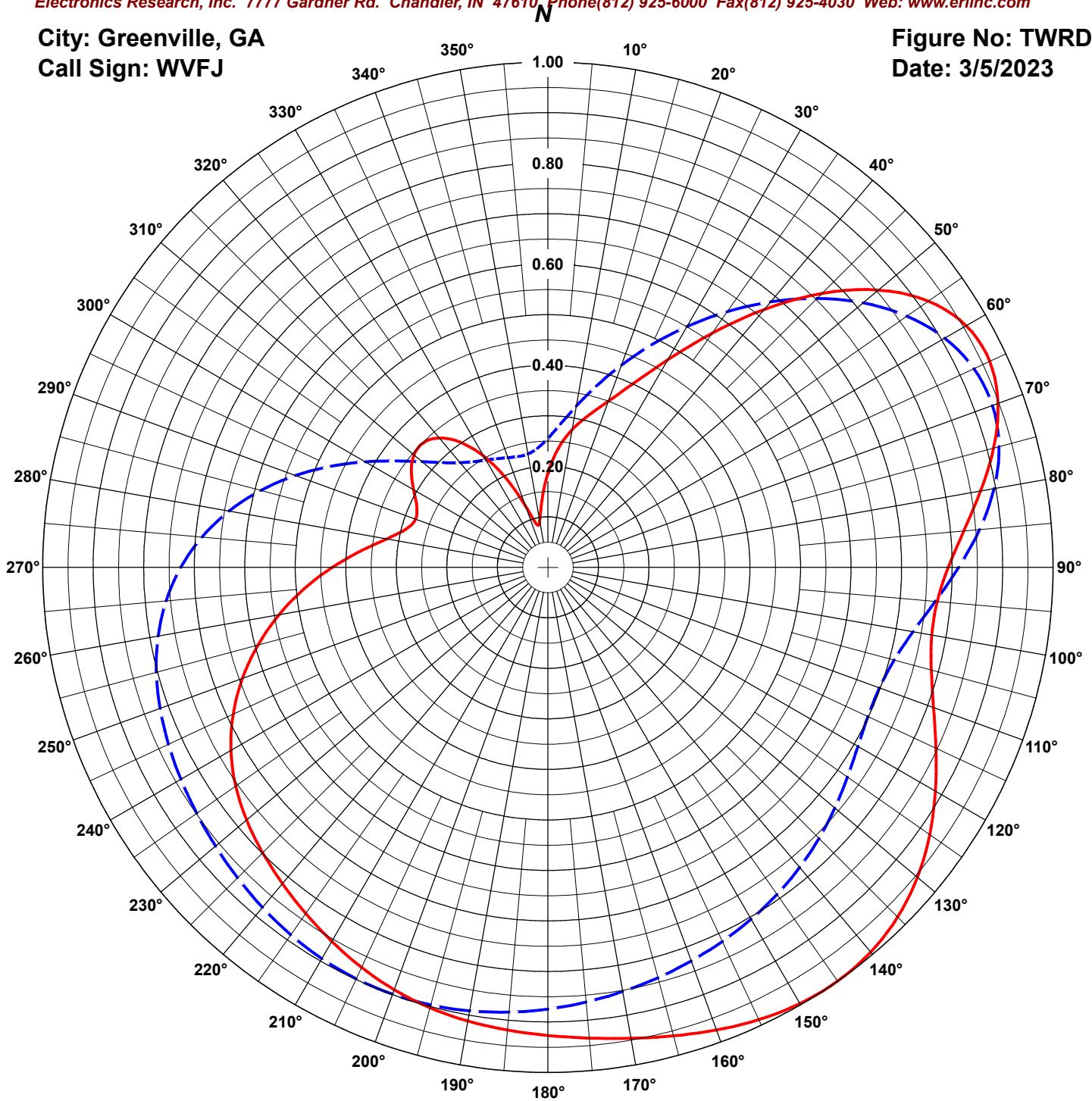
TWRDB.nec

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Frequency: 93.3 MHz
Antenna Type: LP-6E-HW-DA
Antenna Orientation: 141° True
Antenna Mounting: 171° LEG
Tower Type 72" TOWER

VERTICAL

RMS: .709
Maximum: .937 @ 69°
Minimum: .227 @ 347°

HORIZONTAL

RMS: .709
Maximum: 1 @ 146°
Minimum: .085 @ 347°

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Figure# TWRDB

Date: 3/5/2023

Station: WVFJ

Antenna: LP-6E-HW-DA

Location: Greenville, GA

Antenna Orientation: 141° True

Frequency: 93.3 MHz

Number of Bays: 6

Azimuth	Horizontal			Vertical			Azimuth	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.187	0.626	-2.032	0.255	1.170	0.681	180°	0.927	15.461	11.892	0.875	13.766	11.388
5°	0.236	1.004	0.018	0.284	1.456	1.632	185°	0.920	15.221	11.825	0.884	14.063	11.481
10°	0.277	1.378	1.394	0.324	1.888	2.760	190°	0.912	14.974	11.753	0.892	14.307	11.555
15°	0.312	1.748	2.425	0.372	2.486	3.955	195°	0.902	14.660	11.661	0.897	14.478	11.607
20°	0.350	2.204	3.431	0.426	3.269	5.144	200°	0.890	14.247	11.537	0.899	14.557	11.631
25°	0.402	2.908	4.636	0.486	4.253	6.287	205°	0.874	13.736	11.378	0.899	14.532	11.623
30°	0.474	4.044	6.068	0.550	5.451	7.365	210°	0.855	13.164	11.194	0.895	14.402	11.584
35°	0.565	5.742	7.591	0.618	6.864	8.366	215°	0.836	12.583	10.998	0.888	14.184	11.518
40°	0.666	7.989	9.025	0.686	8.467	9.277	220°	0.817	12.025	10.801	0.879	13.904	11.431
45°	0.767	10.576	10.243	0.753	10.195	10.084	225°	0.799	11.484	10.601	0.869	13.591	11.332
50°	0.854	13.123	11.180	0.814	11.937	10.769	230°	0.779	10.910	10.378	0.859	13.273	11.230
55°	0.919	15.197	11.818	0.867	13.534	11.314	235°	0.754	10.246	10.105	0.849	12.965	11.128
60°	0.956	16.455	12.163	0.907	14.805	11.704	240°	0.724	9.445	9.752	0.839	12.665	11.026
65°	0.965	16.753	12.241	0.931	15.588	11.928	245°	0.687	8.502	9.295	0.829	12.359	10.920
70°	0.948	16.181	12.090	0.936	15.782	11.982	250°	0.643	7.450	8.722	0.817	12.012	10.796
75°	0.913	15.016	11.766	0.924	15.380	11.869	255°	0.594	6.348	8.026	0.802	11.586	10.639
80°	0.870	13.611	11.339	0.897	14.474	11.606	260°	0.540	5.254	7.205	0.783	11.043	10.431
85°	0.827	12.296	10.898	0.858	13.240	11.219	265°	0.484	4.216	6.249	0.758	10.353	10.150
90°	0.793	11.309	10.534	0.813	11.902	10.756	270°	0.427	3.276	5.154	0.727	9.501	9.778
95°	0.774	10.773	10.324	0.770	10.670	10.282	275°	0.371	2.483	3.949	0.687	8.501	9.295
100°	0.772	10.719	10.301	0.734	9.698	9.867	280°	0.324	1.887	2.757	0.641	7.391	8.687
105°	0.786	11.112	10.458	0.710	9.064	9.573	285°	0.291	1.524	1.831	0.588	6.229	7.944
110°	0.812	11.880	10.748	0.698	8.777	9.434	290°	0.279	1.398	1.457	0.532	5.087	7.064
115°	0.847	12.923	11.114	0.699	8.795	9.442	295°	0.286	1.476	1.691	0.474	4.037	6.061
120°	0.886	14.115	11.497	0.709	9.042	9.562	300°	0.307	1.695	2.291	0.418	3.140	4.969
125°	0.923	15.321	11.853	0.724	9.432	9.746	305°	0.330	1.959	2.919	0.367	2.426	3.850
130°	0.955	16.406	12.150	0.741	9.892	9.953	310°	0.346	2.155	3.334	0.325	1.902	2.792
135°	0.979	17.254	12.369	0.759	10.366	10.156	315°	0.349	2.187	3.399	0.293	1.545	1.889
140°	0.994	17.791	12.502	0.775	10.823	10.343	320°	0.334	2.011	3.034	0.270	1.317	1.195
145°	1.000	17.997	12.552	0.791	11.250	10.512	325°	0.302	1.643	2.157	0.255	1.175	0.700
150°	0.997	17.900	12.528	0.804	11.646	10.662	330°	0.254	1.158	0.638	0.245	1.083	0.345
155°	0.988	17.570	12.448	0.817	12.019	10.799	335°	0.192	0.665	-1.770	0.237	1.014	0.062
160°	0.975	17.104	12.331	0.829	12.380	10.927	340°	0.129	0.298	-5.251	0.231	0.960	-0.175
165°	0.960	16.599	12.201	0.841	12.736	11.050	345°	0.089	0.143	-8.452	0.227	0.928	-0.327
170°	0.947	16.134	12.077	0.853	13.089	11.169	350°	0.094	0.158	-8.025	0.228	0.934	-0.294
175°	0.936	15.753	11.974	0.864	13.436	11.283	355°	0.134	0.321	-4.930	0.237	1.007	0.031

Horizontal Polarization:

Maximum: 3.614 (5.580 dB)

Horizontal Plane: 3.614 (5.580 dB)

Maximum ERP: 18.000 kW

Vertical Polarization:

Maximum: 3.170 (5.011 dB)

Horizontal Plane: 3.170 (5.011 dB)

Maximum ERP: 15.792 kW

Total Input Power: 4.981 kW

Reference: WVFJTWRDB.FIG

TWRDB.nec

ERI® Horizontal Plane Relative Field Pattern

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Figure# 1

Date: 3/5/2023

Station: WVFJ

Antenna: LP-6E-HW-DA

Location: Greenville, GA

Antenna Orientation: 141° True

Frequency: 93.3 MHz

Number of Bays: 6

Azimuth	Envelope			Polarization	Azimuth	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.255	1.170	0.681	Vertical	180°	0.927	15.461	11.892	Horizontal
5°	0.284	1.456	1.632	Vertical	185°	0.920	15.221	11.825	Horizontal
10°	0.324	1.888	2.760	Vertical	190°	0.912	14.974	11.753	Horizontal
15°	0.372	2.486	3.955	Vertical	195°	0.902	14.660	11.661	Horizontal
20°	0.426	3.269	5.144	Vertical	200°	0.899	14.557	11.631	Vertical
25°	0.486	4.253	6.287	Vertical	205°	0.899	14.532	11.623	Vertical
30°	0.550	5.451	7.365	Vertical	210°	0.895	14.402	11.584	Vertical
35°	0.618	6.864	8.366	Vertical	215°	0.888	14.184	11.518	Vertical
40°	0.686	8.467	9.277	Vertical	220°	0.879	13.904	11.431	Vertical
45°	0.767	10.576	10.243	Horizontal	225°	0.869	13.591	11.332	Vertical
50°	0.854	13.123	11.180	Horizontal	230°	0.859	13.273	11.230	Vertical
55°	0.919	15.197	11.818	Horizontal	235°	0.849	12.965	11.128	Vertical
60°	0.956	16.455	12.163	Horizontal	240°	0.839	12.665	11.026	Vertical
65°	0.965	16.753	12.241	Horizontal	245°	0.829	12.359	10.920	Vertical
70°	0.948	16.181	12.090	Horizontal	250°	0.817	12.012	10.796	Vertical
75°	0.924	15.380	11.869	Vertical	255°	0.802	11.586	10.639	Vertical
80°	0.897	14.474	11.606	Vertical	260°	0.783	11.043	10.431	Vertical
85°	0.858	13.240	11.219	Vertical	265°	0.758	10.353	10.150	Vertical
90°	0.813	11.902	10.756	Vertical	270°	0.727	9.501	9.778	Vertical
95°	0.774	10.773	10.324	Horizontal	275°	0.687	8.501	9.295	Vertical
100°	0.772	10.719	10.301	Horizontal	280°	0.641	7.391	8.687	Vertical
105°	0.786	11.112	10.458	Horizontal	285°	0.588	6.229	7.944	Vertical
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145°	1.000	17.997	12.552	Horizontal	325°	0.302	1.643	2.157	Horizontal
150°	0.997	17.900	12.528	Horizontal	330°	0.254	1.158	0.638	Horizontal
155°	0.988	17.570	12.448	Horizontal	335°	0.237	1.014	0.062	Vertical
160°	0.975	17.104	12.331	Horizontal	340°	0.231	0.960	-0.175	Vertical
165°	0.960	16.599	12.201	Horizontal	345°	0.227	0.928	-0.327	Vertical
170°	0.947	16.134	12.077	Horizontal	350°	0.228	0.934	-0.294	Vertical
175°	0.936	15.753	11.974	Horizontal	355°	0.237	1.007	0.031	Vertical

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Vertical Polarization:

Maximum: 3.170 (5.011 dB)

Horizontal Plane: 3.170 (5.011 dB)

Maximum ERP: 15.792 kW

Total Input Power: 4.981 kW

Reference: WVFJTWRDB.FIG

TWRDB.nec

ERI[®] Vertical Plane Relative Field Pattern

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Figure No: 3

Call Sign: WVFJ

Location: Greenville, GA

Frequency: 93.3 MHz

Antenna: 6 bay LP-6E-HW-DA

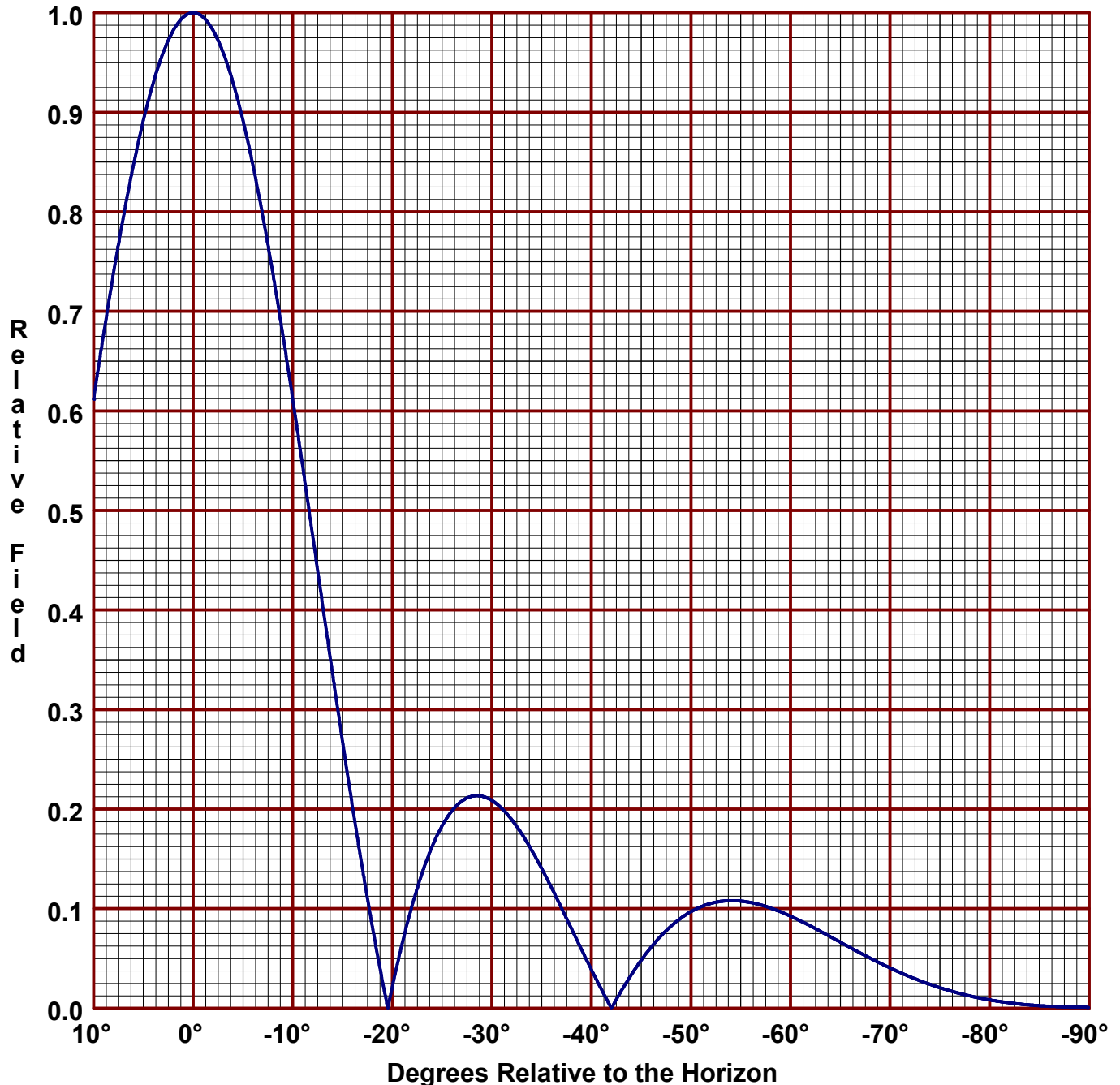
Date: 3/5/2023

H/V Power Ratio: 1

.5 Wave-length Spacing

0° Beam Tilt

0% First Null Fill



Horizontal Polarization:

Maximum: 3.614 (5.580 dB)

Horizontal Plane: 3.614 (5.580 dB)

Maximum ERP: 18.000 kW

TWRDB.nec

Vertical Polarization:

Maximum: 3.170 (5.011 dB)

Horizontal Plane: 3.170 (5.011 dB)

Maximum ERP: 15.792 kW