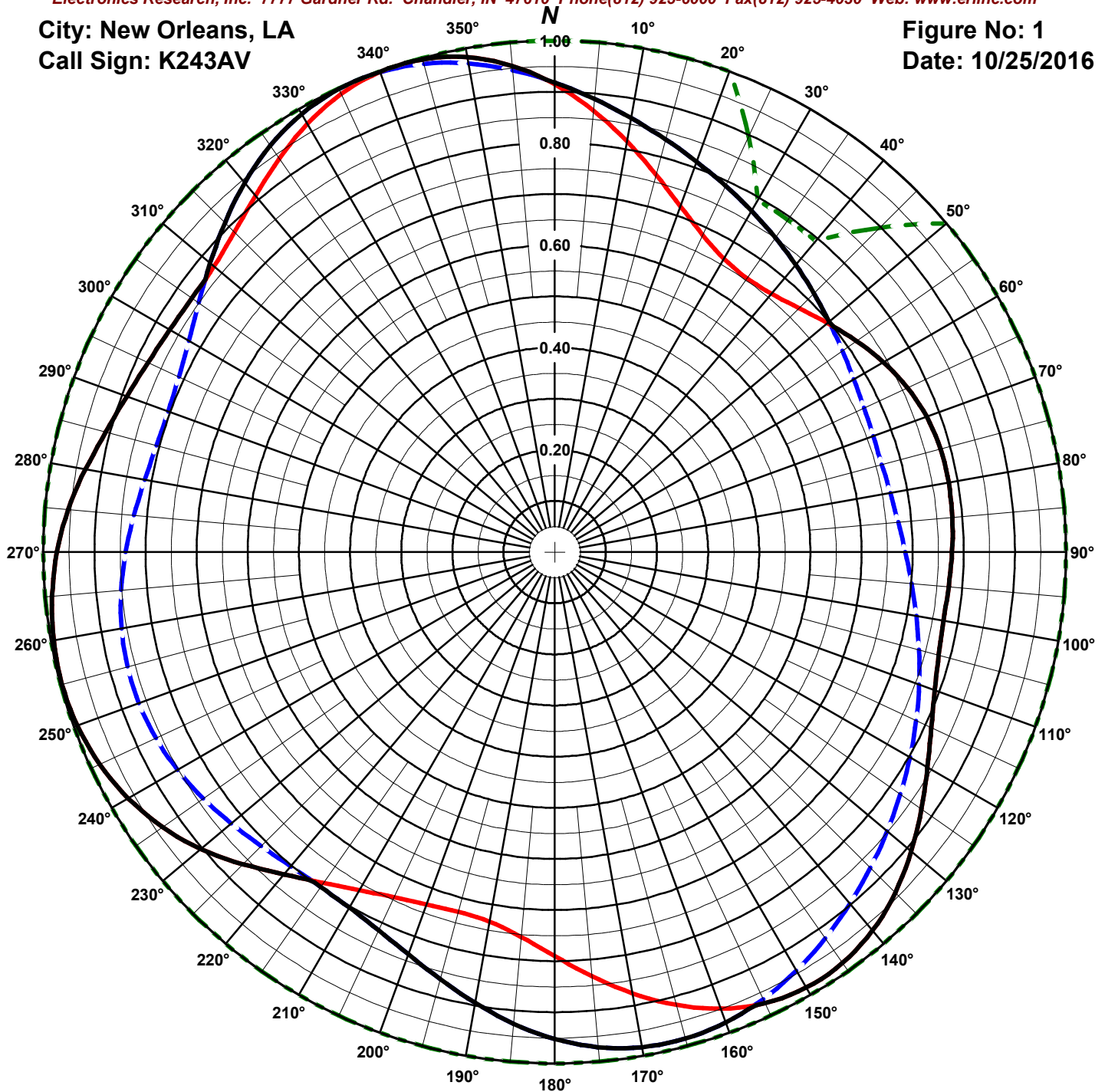


ERI® Horizontal Plane Relative Field Pattern

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

City: New Orleans, LA
Call Sign: K243AV

Figure No: 1
Date: 10/25/2016



Antenna Orientation: 74° True

Frequency: 103.7 MHz
Antenna Type: 100A-1M-DA

Antenna Mounting: Custom
Tower Type: 24" face tower

HORIZONTAL

RMS: .86
Maximum: 1 @ 342°
Minimum: .654 @ 35°

VERTICAL

RMS: .844
Maximum: 1 @ 337°
Minimum: .662 @ 73°

COMPOSITE

RMS: .886
Maximum: 1 @ 337°
Minimum: .701 @ 50°

FCC ENVELOPE

RMS: .989
Maximum: 1 @ 0°
Minimum: .794 @ 30°

Patterns of the horizontal and vertical components, with the composite maximum of either the H or V components and the filed FCC envelope pattern BPFT-20160729AAD.

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

Figure# 1

Date: 10/25/2016

Station: K243AV

Antenna: 100A-1M-DA

Location: New Orleans, LA

Antenna Orientation: 74° True

Frequency: 103.7 MHz

Number of Bays: 1

Azimuth	Envelope			Polarization	Azimuth	Envelope			Polarization
	Field	kW	dBk	Maximum		Field	kW	dBk	Maximum
0°	0.918	0.211	-6.761	Vertical	180°	0.952	0.227	-6.448	Vertical
5°	0.890	0.198	-7.036	Vertical	185°	0.925	0.214	-6.694	Vertical
10°	0.862	0.186	-7.312	Vertical	190°	0.895	0.200	-6.983	Vertical
15°	0.836	0.175	-7.578	Vertical	195°	0.864	0.187	-7.287	Vertical
20°	0.812	0.165	-7.828	Vertical	200°	0.837	0.175	-7.567	Vertical
25°	0.790	0.156	-8.064	Vertical	205°	0.816	0.166	-7.790	Vertical
30°	0.770	0.148	-8.288	Vertical	210°	0.803	0.161	-7.928	Vertical
35°	0.751	0.141	-8.504	Vertical	215°	0.799	0.159	-7.973	Vertical
40°	0.733	0.134	-8.715	Vertical	220°	0.823	0.169	-7.717	Horizontal
45°	0.716	0.128	-8.920	Vertical	225°	0.863	0.186	-7.300	Horizontal
50°	0.701	0.123	-9.112	Vertical	230°	0.903	0.204	-6.902	Horizontal
55°	0.720	0.130	-8.875	Horizontal	235°	0.937	0.219	-6.588	Horizontal
60°	0.742	0.138	-8.610	Horizontal	240°	0.963	0.232	-6.351	Horizontal
65°	0.761	0.145	-8.395	Horizontal	245°	0.982	0.241	-6.183	Horizontal
70°	0.774	0.150	-8.245	Horizontal	250°	0.993	0.247	-6.081	Horizontal
75°	0.781	0.153	-8.167	Horizontal	255°	0.997	0.249	-6.043	Horizontal
80°	0.782	0.153	-8.154	Horizontal	260°	0.994	0.247	-6.070	Horizontal
85°	0.781	0.152	-8.173	Horizontal	265°	0.986	0.243	-6.141	Horizontal
90°	0.777	0.151	-8.212	Horizontal	270°	0.973	0.237	-6.257	Horizontal
95°	0.773	0.149	-8.254	Horizontal	275°	0.955	0.228	-6.421	Horizontal
100°	0.772	0.149	-8.265	Horizontal	280°	0.932	0.217	-6.635	Horizontal
105°	0.778	0.151	-8.206	Horizontal	285°	0.908	0.206	-6.854	Horizontal
110°	0.791	0.156	-8.057	Horizontal	290°	0.890	0.198	-7.030	Horizontal
115°	0.813	0.165	-7.821	Horizontal	295°	0.877	0.192	-7.159	Horizontal
120°	0.842	0.177	-7.516	Horizontal	300°	0.869	0.189	-7.240	Horizontal
125°	0.876	0.192	-7.175	Horizontal	305°	0.866	0.188	-7.270	Horizontal
130°	0.910	0.207	-6.838	Horizontal	310°	0.879	0.193	-7.139	Vertical
135°	0.942	0.222	-6.541	Horizontal	315°	0.912	0.208	-6.825	Vertical
140°	0.966	0.234	-6.317	Horizontal	320°	0.943	0.222	-6.530	Vertical
145°	0.981	0.241	-6.186	Horizontal	325°	0.970	0.235	-6.286	Vertical
150°	0.984	0.242	-6.164	Horizontal	330°	0.989	0.245	-6.115	Vertical
155°	0.973	0.237	-6.257	Horizontal	335°	0.999	0.249	-6.030	Vertical
160°	0.979	0.239	-6.209	Vertical	340°	0.999	0.250	-6.029	Horizontal
165°	0.985	0.243	-6.151	Vertical	345°	0.997	0.249	-6.043	Horizontal
170°	0.983	0.242	-6.169	Vertical	350°	0.983	0.241	-6.173	Horizontal
175°	0.972	0.236	-6.270	Vertical	355°	0.954	0.228	-6.425	Horizontal

Horizontal Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW

Total Input Power: 0.454 kW

Reference: K243AV1M.FIG

This list shows the the maximum azimuth values of either the horizontal or vertical components.

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

Figure# 1A

Date: 10/25/2016

Station: K243AV

Antenna: 100A-1M-DA

Location: New Orleans, LA

Antenna Orientation: 74° True

Frequency: 103.7 MHz

Number of Bays: 1

Azimuth	Horizontal			Vertical			Azimuth	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.915	0.209	-6.795	0.918	0.211	-6.761	180°	0.790	0.156	-8.067	0.952	0.227	-6.448
5°	0.867	0.188	-7.263	0.890	0.198	-7.036	185°	0.755	0.143	-8.456	0.925	0.214	-6.694
10°	0.815	0.166	-7.798	0.862	0.186	-7.312	190°	0.734	0.135	-8.710	0.895	0.200	-6.983
15°	0.764	0.146	-8.355	0.836	0.175	-7.578	195°	0.729	0.133	-8.770	0.864	0.187	-7.287
20°	0.719	0.129	-8.882	0.812	0.165	-7.828	200°	0.733	0.134	-8.718	0.837	0.175	-7.567
25°	0.684	0.117	-9.315	0.790	0.156	-8.064	205°	0.745	0.139	-8.582	0.816	0.166	-7.790
30°	0.662	0.110	-9.598	0.770	0.148	-8.288	210°	0.763	0.146	-8.366	0.803	0.161	-7.928
35°	0.654	0.107	-9.702	0.751	0.141	-8.504	215°	0.789	0.156	-8.075	0.799	0.159	-7.973
40°	0.660	0.109	-9.634	0.733	0.134	-8.715	220°	0.823	0.169	-7.717	0.802	0.161	-7.932
45°	0.675	0.114	-9.435	0.716	0.128	-8.920	225°	0.863	0.186	-7.300	0.812	0.165	-7.827
50°	0.696	0.121	-9.163	0.701	0.123	-9.112	230°	0.903	0.204	-6.902	0.825	0.170	-7.688
55°	0.720	0.130	-8.875	0.687	0.118	-9.284	235°	0.937	0.219	-6.588	0.839	0.176	-7.544
60°	0.742	0.138	-8.610	0.676	0.114	-9.427	240°	0.963	0.232	-6.351	0.851	0.181	-7.418
65°	0.761	0.145	-8.395	0.667	0.111	-9.532	245°	0.982	0.241	-6.183	0.860	0.185	-7.327
70°	0.774	0.150	-8.245	0.663	0.110	-9.592	250°	0.993	0.247	-6.081	0.865	0.187	-7.280
75°	0.781	0.153	-8.167	0.662	0.110	-9.599	255°	0.997	0.249	-6.043	0.865	0.187	-7.283
80°	0.782	0.153	-8.154	0.666	0.111	-9.546	260°	0.994	0.247	-6.070	0.860	0.185	-7.333
85°	0.781	0.152	-8.173	0.674	0.114	-9.444	265°	0.986	0.243	-6.141	0.851	0.181	-7.426
90°	0.777	0.151	-8.212	0.686	0.118	-9.297	270°	0.973	0.237	-6.257	0.839	0.176	-7.549
95°	0.773	0.149	-8.254	0.701	0.123	-9.111	275°	0.955	0.228	-6.421	0.826	0.170	-7.685
100°	0.772	0.149	-8.265	0.718	0.129	-8.897	280°	0.932	0.217	-6.635	0.814	0.166	-7.810
105°	0.778	0.151	-8.206	0.738	0.136	-8.664	285°	0.908	0.206	-6.854	0.806	0.162	-7.895
110°	0.791	0.156	-8.057	0.758	0.144	-8.423	290°	0.890	0.198	-7.030	0.804	0.162	-7.913
115°	0.813	0.165	-7.821	0.780	0.152	-8.178	295°	0.877	0.192	-7.159	0.811	0.164	-7.842
120°	0.842	0.177	-7.516	0.802	0.161	-7.934	300°	0.869	0.189	-7.240	0.826	0.171	-7.679
125°	0.876	0.192	-7.175	0.825	0.170	-7.689	305°	0.866	0.188	-7.270	0.850	0.180	-7.436
130°	0.910	0.207	-6.838	0.849	0.180	-7.445	310°	0.869	0.189	-7.235	0.879	0.193	-7.139
135°	0.942	0.222	-6.541	0.873	0.191	-7.200	315°	0.885	0.196	-7.079	0.912	0.208	-6.825
140°	0.966	0.234	-6.317	0.898	0.201	-6.957	320°	0.910	0.207	-6.839	0.943	0.222	-6.530
145°	0.981	0.241	-6.186	0.922	0.213	-6.724	325°	0.939	0.220	-6.566	0.970	0.235	-6.286
150°	0.984	0.242	-6.164	0.945	0.223	-6.511	330°	0.967	0.234	-6.314	0.989	0.245	-6.115
155°	0.973	0.237	-6.257	0.965	0.233	-6.334	335°	0.988	0.244	-6.125	0.999	0.249	-6.030
160°	0.950	0.226	-6.465	0.979	0.239	-6.209	340°	0.999	0.250	-6.029	0.999	0.249	-6.033
165°	0.917	0.210	-6.777	0.985	0.243	-6.151	345°	0.997	0.249	-6.043	0.989	0.244	-6.121
170°	0.876	0.192	-7.172	0.983	0.242	-6.169	350°	0.983	0.241	-6.173	0.970	0.235	-6.283
175°	0.832	0.173	-7.617	0.972	0.236	-6.270	355°	0.954	0.228	-6.425	0.946	0.224	-6.503

Horizontal Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW

Total Input Power: 0.454 kW

Reference: K243AV1M.FIG

This list shows the azimuth values for the horizontal and vertical components.

ERI[®] Vertical 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

Figure No: 3

Call Sign: K243AV

Location: New Orleans, LA

Frequency: 103.7 MHz

Antenna: 1 bay 100A-1M-DA

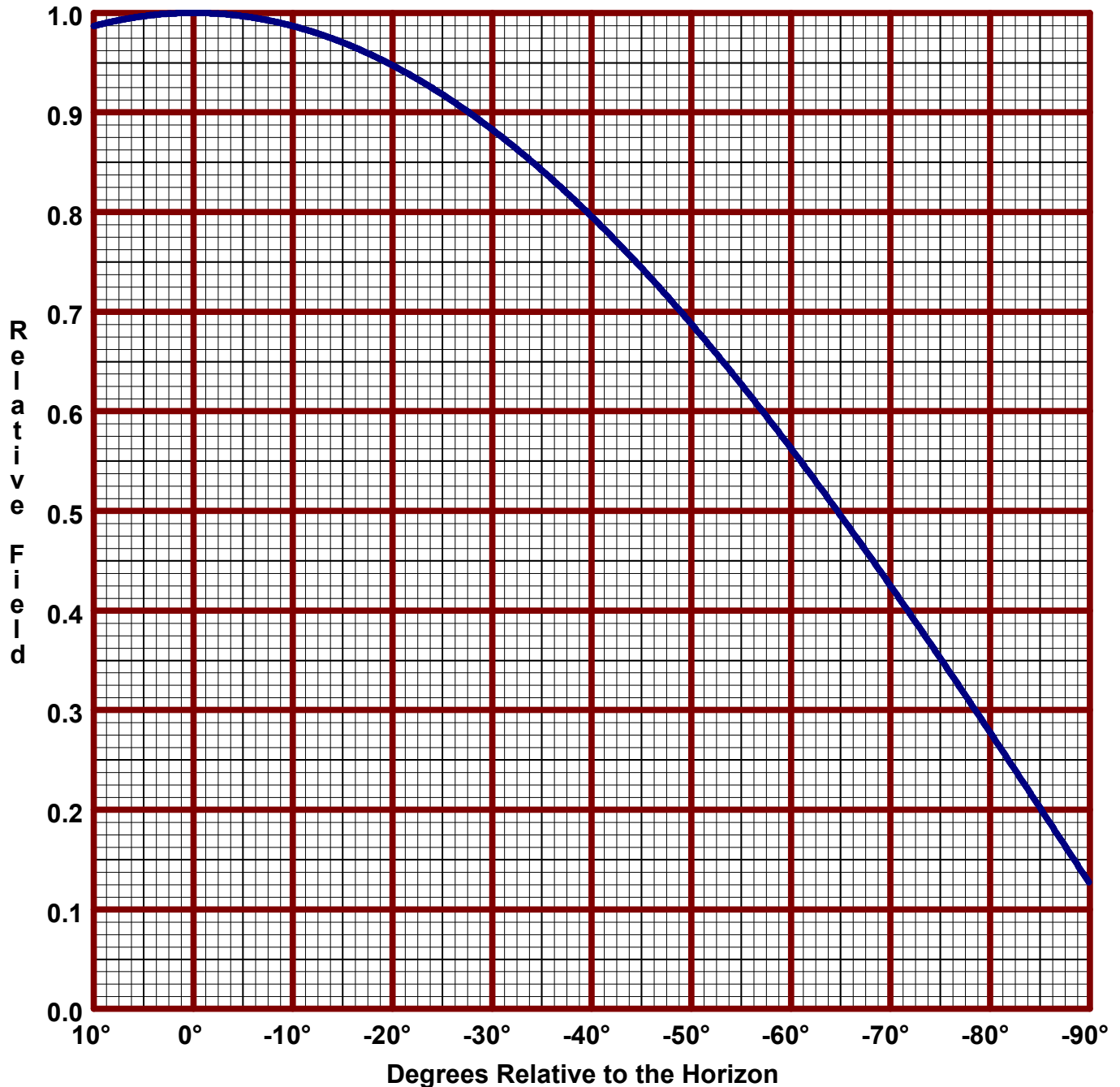
Date: 10/25/2016

H/V Power Ratio: 1

1 Wave-length Spacing

0° Beam Tilt

0% First Null Fill



Horizontal Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.550 (-2.595 dB)

Horizontal Plane: 0.550 (-2.595 dB)

Maximum ERP: 0.250 kW