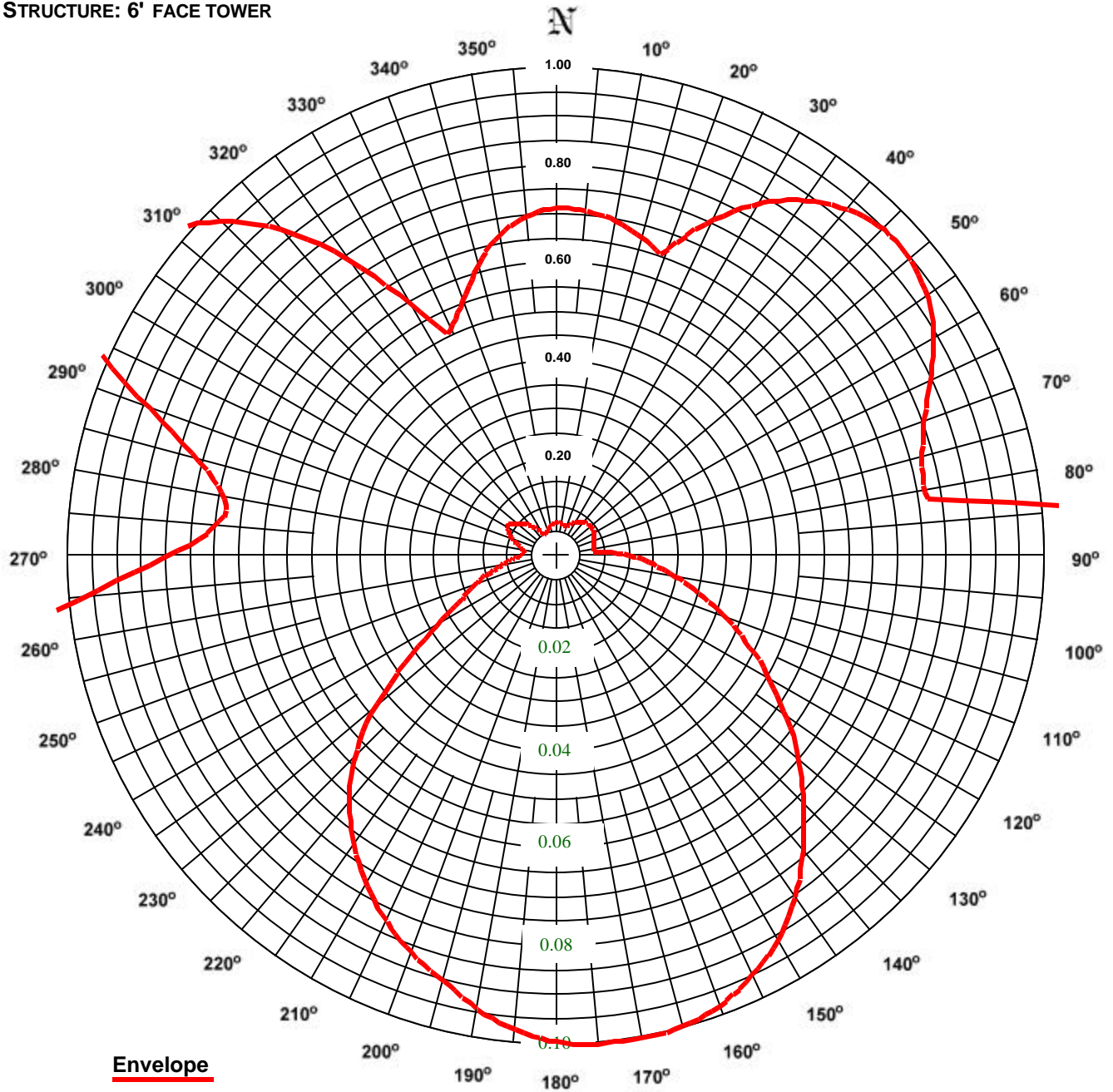


ERI® *Horizontal Plane Relative Field Pattern*

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

FIGURE: 1
STATION: KFMD
LOCATION: DENVER CO.
ANTENNA TYPE: 1061-3CP-DA
STRUCTURE: 6' FACE TOWER

DATE: 8/15/02
FREQUENCY: 95.7 MHz
ORIENTATION: 170° TRUE
MOUNTING: CUSTOM



RMS: 0.484
Maximum: 1.000 @ 169° True
Minimum: 0.051 @ 334° True

10X Scale

COMMENTS: COMPOSITE PATTERN: THIS PATTERN SHOWS THE MAXIMUM OF EITHER THE H OR V AZIMUTH VALUES. THIS PATTERN DOES NOT EXCEED THE FCC FILED COMPOSITE PATTERN AT ANY AZIMUTH. THE RMS OF THIS PATTERN IS GREATER THAN 85% OF THE FILED FCC COMPOSITE PATTERN.

ERI[®] *Horizontal Plane Relative Field List*

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

Station: KFMD
Location: Denver Co.
Frequency: 95.7 MHz

Antenna: 1061-3CP-DA
Orientation: 170° True
Tower: 6' face tower

Figure: 1
Date: 8/15/02
Reference: kfmd1m.fig

Angle	Envelope			Polarization	Angle	Envelope			Polarization
	Field	kW	dBk			Field	kW	dBk	
0°	0.072	0.51	-2.90	Horizontal	180°	0.992	98.49	19.93	Horizontal
5°	0.071	0.51	-2.93	Horizontal	185°	0.972	94.51	19.75	Horizontal
10°	0.070	0.49	-3.09	Horizontal	190°	0.939	88.22	19.46	Horizontal
15°	0.068	0.46	-3.37	Horizontal	195°	0.898	80.55	19.06	Vertical
20°	0.067	0.45	-3.45	Vertical	200°	0.864	74.62	18.73	Vertical
25°	0.076	0.58	-2.33	Vertical	205°	0.823	67.79	18.31	Vertical
30°	0.084	0.70	-1.53	Vertical	210°	0.776	60.25	17.80	Vertical
35°	0.089	0.80	-0.98	Vertical	215°	0.722	52.17	17.17	Vertical
40°	0.093	0.87	-0.62	Vertical	220°	0.662	43.77	16.41	Vertical
45°	0.095	0.90	-0.45	Vertical	225°	0.586	34.29	15.35	Vertical
50°	0.095	0.90	-0.47	Vertical	230°	0.495	24.48	13.89	Vertical
55°	0.093	0.86	-0.65	Vertical	235°	0.379	14.35	11.57	Vertical
60°	0.089	0.80	-0.98	Vertical	240°	0.282	7.94	9.00	Vertical
65°	0.084	0.71	-1.48	Vertical	245°	0.220	4.83	6.84	Horizontal
70°	0.080	0.64	-1.93	Vertical	250°	0.183	3.37	5.27	Horizontal
75°	0.078	0.60	-2.21	Vertical	255°	0.154	2.36	3.73	Horizontal
80°	0.077	0.59	-2.32	Vertical	260°	0.125	1.57	1.95	Horizontal
85°	0.115	1.32	1.20	Horizontal	265°	0.099	0.97	-0.12	Horizontal
90°	0.165	2.73	4.36	Horizontal	270°	0.080	0.65	-1.90	Horizontal
95°	0.207	4.30	6.33	Horizontal	275°	0.070	0.50	-3.05	Horizontal
100°	0.256	6.54	8.15	Horizontal	280°	0.069	0.48	-3.20	Horizontal
105°	0.312	9.75	9.89	Horizontal	285°	0.076	0.57	-2.43	Horizontal
110°	0.375	14.04	11.47	Horizontal	290°	0.089	0.78	-1.06	Horizontal
115°	0.438	19.18	12.83	Horizontal	295°	0.105	1.10	0.41	Horizontal
120°	0.507	25.67	14.10	Horizontal	300°	0.115	1.33	1.22	Horizontal
125°	0.577	33.31	15.23	Horizontal	305°	0.119	1.42	1.51	Horizontal
130°	0.649	42.11	16.24	Horizontal	310°	0.109	1.19	0.77	Horizontal
135°	0.716	51.22	17.09	Horizontal	315°	0.097	0.95	-0.23	Vertical
140°	0.785	61.57	17.89	Horizontal	320°	0.088	0.77	-1.14	Vertical
145°	0.851	72.50	18.60	Horizontal	325°	0.075	0.56	-2.53	Vertical
150°	0.906	82.07	19.14	Horizontal	330°	0.060	0.36	-4.41	Vertical
155°	0.948	89.87	19.54	Horizontal	335°	0.051	0.26	-5.77	Horizontal
160°	0.978	95.59	19.80	Horizontal	340°	0.056	0.31	-5.03	Horizontal
165°	0.995	99.01	19.96	Horizontal	345°	0.062	0.39	-4.14	Horizontal
170°	1.000	100.00	20.00	Horizontal	350°	0.067	0.45	-3.47	Horizontal
175°	1.000	100.00	20.00	Horizontal	355°	0.070	0.49	-3.07	Horizontal

Polarization:
Maximum Field:
Minimum Field:
RMS:
Maximum ERP:
Maximum Power Gain:

Envelope
1.000 @ 169° True
0.051 @ 334° True
0.484
100.000 kW
6.660 (8.235 dB)

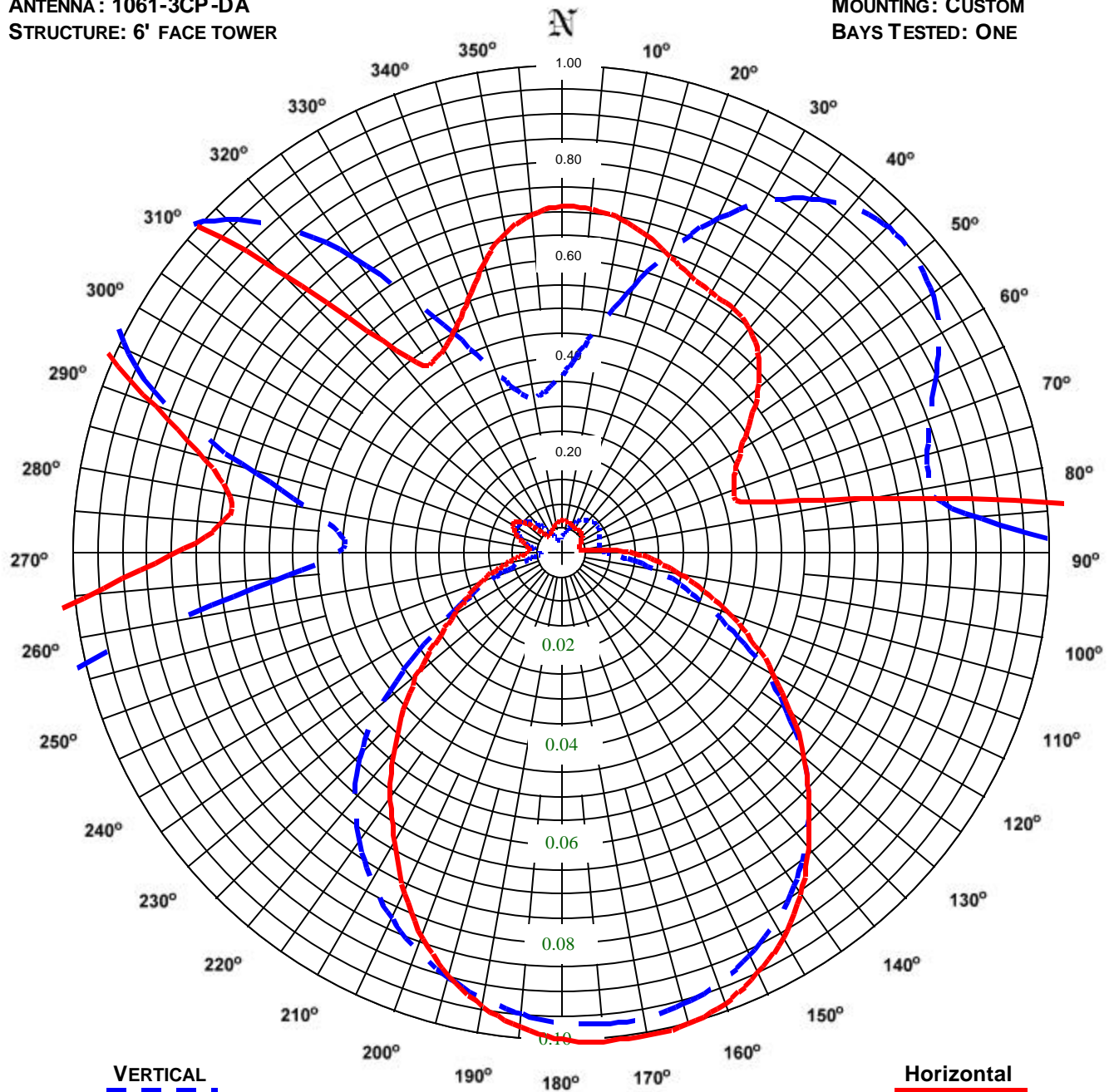
Total Input Power: 15.014 kW

ERI[®] Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

FIGURE NO: 2
STATION: KFMD
LOCATION: DENVER CO.
ANTENNA: 1061-3CP-DA
STRUCTURE: 6' FACE TOWER

DATE: 8/15/02
FREQUENCY: 95.7 MHz
ORIENTATION: 170° TRUE
MOUNTING: CUSTOM
BAYS TESTED: ONE



RMS: 0.471
MAXIMUM: 0.966 @ 173° TRUE
MINIMUM: 0.033 @ 350° TRUE

RMS: 0.471
Maximum: 1.000 @ 169° True
Minimum: 0.037 @ 72° True

COMMENTS: MEASURED PATTERN OF THE HORIZONTAL AND VERTICAL COMPONENTS.

ERI[®] Horizontal Plane Relative Field List

Electronics Research, Inc. 7777 Gardner Rd. Chandler, In 47610 Phone (812) 925-6000 Fax (812) 925-4030 <http://www.eriinc.com/>

Station: KFMD
Location: Denver Co.
Frequency: 95.7 MHz

Antenna: 1061-3CP-DA
Orientation: 170° True
Tower: 6' face tower

Figure: 2
Date: 8/15/02
Reference: kfmd1m.fig

Angle	Horizontal			Vertical			Angle	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.072	0.51	-2.90	0.037	0.14	-8.63	180°	0.992	98.49	19.93	0.958	91.81	19.63
5°	0.071	0.51	-2.93	0.042	0.18	-7.57	185°	0.972	94.51	19.75	0.945	89.24	19.51
10°	0.070	0.49	-3.09	0.048	0.24	-6.29	190°	0.939	88.22	19.46	0.924	85.46	19.32
15°	0.068	0.46	-3.37	0.057	0.32	-4.88	195°	0.894	79.87	19.02	0.898	80.55	19.06
20°	0.065	0.42	-3.73	0.067	0.45	-3.45	200°	0.835	69.80	18.44	0.864	74.62	18.73
25°	0.063	0.40	-4.00	0.076	0.58	-2.33	205°	0.765	58.46	17.67	0.823	67.79	18.31
30°	0.062	0.38	-4.15	0.084	0.70	-1.53	210°	0.685	46.96	16.72	0.776	60.25	17.80
35°	0.062	0.38	-4.21	0.089	0.80	-0.98	215°	0.614	37.71	15.76	0.722	52.17	17.17
40°	0.060	0.36	-4.42	0.093	0.87	-0.62	220°	0.542	29.32	14.67	0.662	43.77	16.41
45°	0.057	0.33	-4.88	0.095	0.90	-0.45	225°	0.466	21.73	13.37	0.586	34.29	15.35
50°	0.052	0.27	-5.61	0.095	0.90	-0.47	230°	0.393	15.43	11.88	0.495	24.48	13.89
55°	0.047	0.22	-6.62	0.093	0.86	-0.65	235°	0.321	10.29	10.12	0.379	14.35	11.57
60°	0.042	0.18	-7.52	0.089	0.80	-0.98	240°	0.264	6.97	8.43	0.282	7.94	9.00
65°	0.039	0.15	-8.18	0.084	0.71	-1.48	245°	0.220	4.83	6.84	0.216	4.67	6.70
70°	0.037	0.14	-8.52	0.080	0.64	-1.93	250°	0.183	3.37	5.27	0.161	2.60	4.15
75°	0.042	0.18	-7.45	0.078	0.60	-2.21	255°	0.154	2.36	3.73	0.117	1.36	1.35
80°	0.068	0.46	-3.36	0.077	0.59	-2.32	260°	0.125	1.57	1.95	0.083	0.69	-1.62
85°	0.115	1.32	1.20	0.086	0.74	-1.28	265°	0.099	0.97	-0.12	0.060	0.36	-4.48
90°	0.165	2.73	4.36	0.112	1.26	0.99	270°	0.080	0.65	-1.90	0.047	0.22	-6.55
95°	0.207	4.30	6.33	0.154	2.37	3.75	275°	0.070	0.50	-3.05	0.045	0.21	-6.88
100°	0.256	6.54	8.15	0.212	4.50	6.53	280°	0.069	0.48	-3.20	0.052	0.27	-5.70
105°	0.312	9.75	9.89	0.264	6.95	8.42	285°	0.076	0.57	-2.43	0.065	0.42	-3.74
110°	0.375	14.04	11.47	0.328	10.73	10.31	290°	0.089	0.78	-1.06	0.084	0.70	-1.55
115°	0.438	19.18	12.83	0.400	16.02	12.05	295°	0.105	1.10	0.41	0.098	0.96	-0.17
120°	0.507	25.67	14.10	0.486	23.64	13.74	300°	0.115	1.33	1.22	0.106	1.12	0.50
125°	0.577	33.31	15.23	0.564	31.80	15.02	305°	0.119	1.42	1.51	0.107	1.15	0.60
130°	0.649	42.11	16.24	0.645	41.63	16.19	310°	0.109	1.19	0.77	0.104	1.08	0.33
135°	0.716	51.22	17.09	0.715	51.07	17.08	315°	0.083	0.69	-1.59	0.097	0.95	-0.23
140°	0.785	61.57	17.89	0.776	60.16	17.79	320°	0.057	0.33	-4.83	0.088	0.77	-1.14
145°	0.851	72.50	18.60	0.828	68.58	18.36	325°	0.048	0.23	-6.45	0.075	0.56	-2.53
150°	0.906	82.07	19.14	0.872	76.07	18.81	330°	0.049	0.24	-6.26	0.060	0.36	-4.41
155°	0.948	89.87	19.54	0.908	82.41	19.16	335°	0.051	0.26	-5.77	0.049	0.24	-6.28
160°	0.978	95.59	19.80	0.935	87.40	19.42	340°	0.056	0.31	-5.03	0.040	0.16	-7.94
165°	0.995	99.01	19.96	0.954	90.92	19.59	345°	0.062	0.39	-4.14	0.035	0.12	-9.14
170°	1.000	100.00	20.00	0.964	92.87	19.68	350°	0.067	0.45	-3.47	0.033	0.11	-9.64
175°	1.000	100.00	20.00	0.965	93.10	19.69	355°	0.070	0.49	-3.07	0.034	0.12	-9.35

Polarization:	Horizontal	Vertical
Maximum Field:	1.000 @ 169° True	0.966 @ 173° True
Minimum Field:	0.037 @ 72° True	0.033 @ 350° True
RMS:	0.471	0.471
Maximum ERP:	100.000 kW	93.260 kW
Maximum Power Gain:	6.660 (8.235 dB)	6.221 (7.932 dB)

Total Input Power: 15.014 kW