

## Azimuth Pattern

Scale: Linear

Unit: Relative Field

### Systems With Reliability Inc

CLIENT: *KEJR-LD*

Date: 4/4/2008

ANTENNA TYPE: SWEDM8MCRR / 40-DT CP

FREQUENCY: 629

PATTERN POL.: Circular

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 2.24187 / 3.506dB

PATTERN RMS: 0.668

## Relative Field Tabulation(Azimuth)

Azimuth Heading	Normalized Field(dB)	Azimuth Heading	Normalized Field(dB)
0	.9310 (-0.621 )	180	.0010 (-60 )
5	.8755 (-1.155 )	185	.0010 (-60 )
10	.8200 (-1.724 )	190	.0010 (-60 )
15	.8355 (-1.561 )	195	.0060 (-44.437 )
20	.8510 (-1.401 )	200	.0110 (-39.172 )
25	.9045 (-0.872 )	205	.0070 (-43.098 )
30	.9580 (-0.373 )	210	.0030 (-50.458 )
35	.9720 (-0.247 )	215	.0460 (-26.745 )
40	.9860 (-0.122 )	220	.0890 (-21.012 )
45	.9785 (-0.189 )	225	.1560 (-16.138 )
50	.9710 (-0.256 )	230	.2230 (-13.034 )
55	.9420 (-0.519 )	235	.3000 (-10.458 )
60	.9130 (-0.791 )	240	.3770 (-8.473 )
65	.8655 (-1.255 )	245	.4560 (-6.821 )
70	.8180 (-1.745 )	250	.5350 (-5.433 )
75	.7545 (-2.447 )	255	.6095 (-4.301 )
80	.6910 (-3.21 )	260	.6840 (-3.299 )
85	.6170 (-4.194 )	265	.7480 (-2.522 )
90	.5430 (-5.304 )	270	.8120 (-1.809 )
95	.4640 (-6.67 )	275	.8605 (-1.305 )
100	.3850 (-8.291 )	280	.9090 (-0.829 )
105	.3075 (-10.243 )	285	.9390 (-0.547 )
110	.2300 (-12.765 )	290	.9690 (-0.274 )
115	.1625 (-15.783 )	295	.9775 (-0.198 )
120	.0950 (-20.446 )	300	.9860 (-0.122 )
125	.0500 (-26.021 )	305	.9730 (-0.238 )
130	.0050 (-46.021 )	310	.9600 (-0.355 )
135	.0030 (-50 )	315	.9080 (-50 )
140	.0010 (-50 )	320	.8560 (-50 )
145	.0010 (-50 )	325	.8365 (-50 )
150	.0010 (-50 )	330	.8170 (-50 )
155	.0010 (-50 )	335	.8710 (-50 )
160	.0010 (-50 )	340	.9250 (-50 )
165	.0010 (-50 )	345	.9625 (-50 )
170	.0010 (-50 )	350	1.0000 (-50 )
175	.0010 (-50 )	355	.9655 (-50 )

## Systems With Reliability Inc

CLIENT: *KEJR-LD*

Date: 4/4/2008

ANTENNA TYPE: SWEDM8MCRR / 40-DT CP

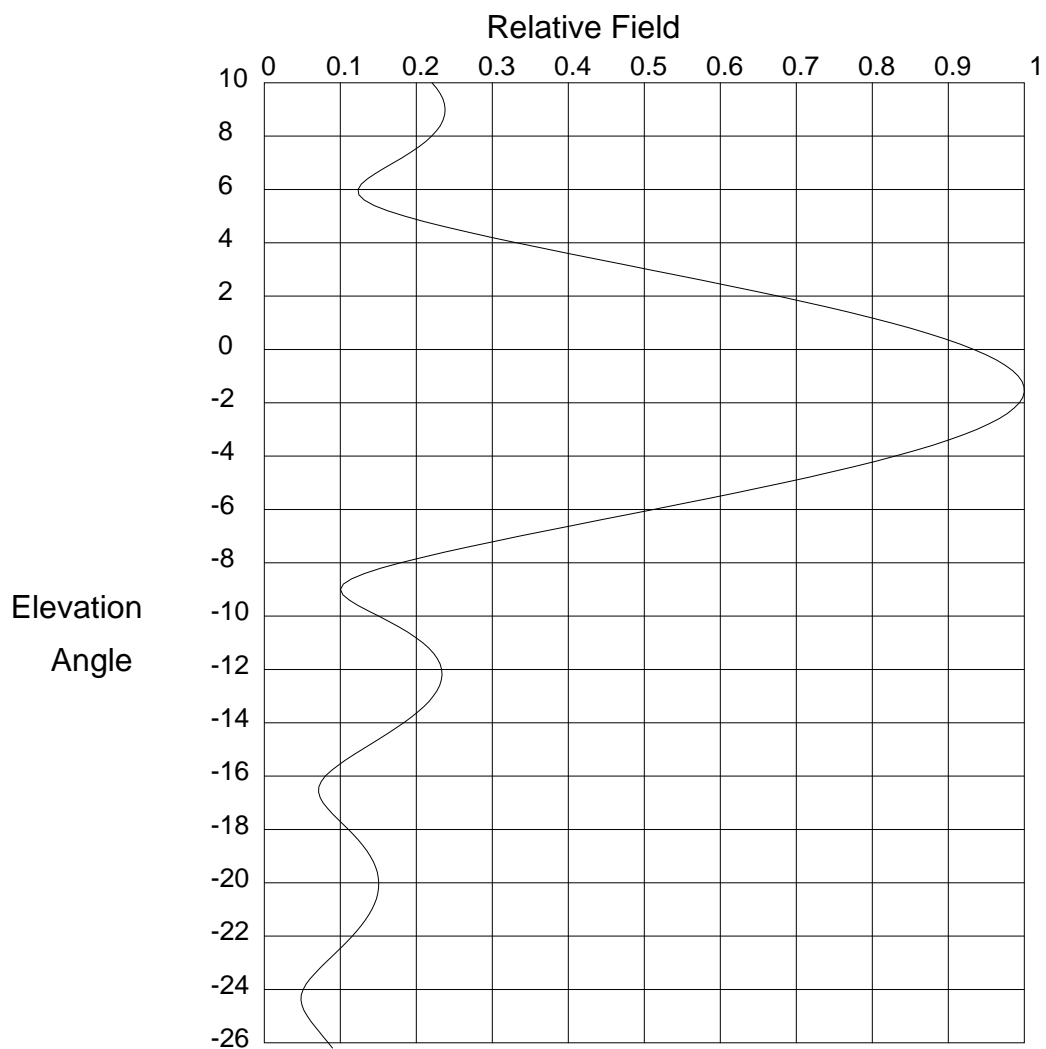
FREQUENCY: 629

PATTERN POL.: Circular

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 2.24187 / 3.506dB

PATTERN RMS: 0.668



## Elevation Pattern

Scale: Linear

Units: Field, Relative

### Systems With Reliability Inc

CLIENT: *KEJR-LD*

Date: 4/4/2008

ANTENNA TYPE: SWEDM8MCRR/40-DT CP

FREQUENCY: 629

PATTERN POL.: Circular

DIRECTIVITY(Peak): 8.292/9.187 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 7.229/8.591 dBd

Null Fill(s)(%) : 10, 7, 5

# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.47 (-6.554)	-4.4	.775 (-2.211)	-12.0	.233 (-12.638 )
3.0	.505 (-5.927)	-4.6	.746 (-2.548)	-12.2	.234 (-12.618 )
2.8	.54 (-5.345)	-4.8	.715 (-2.914)	-12.4	.233 (-12.651 )
2.6	.575 (-4.804)	-5.0	.683 (-3.31)	-12.6	.231 (-12.734 )
2.4	.609 (-4.301)	-5.2	.65 (-3.738)	-12.8	.227 (-12.867 )
2.2	.643 (-3.833)	-5.4	.617 (-4.2)	-13.0	.223 (-13.05 )
2.0	.676 (-3.399)	-5.6	.582 (-4.698)	-13.2	.217 (-13.283 )
1.8	.708 (-2.997)	-5.8	.547 (-5.234)	-13.4	.21 (-13.566 )
1.6	.739 (-2.626)	-6.0	.512 (-5.812)	-13.6	.202 (-13.9 )
1.4	.769 (-2.283)	-6.2	.477 (-6.435)	-13.8	.193 (-14.287 )
1.2	.797 (-1.967)	-6.4	.441 (-7.107)	-14.0	.184 (-14.727 )
1.0	.824 (-1.678)	-6.6	.406 (-7.833)	-14.2	.173 (-15.224 )
.8	.85 (-1.414)	-6.8	.371 (-8.619)	-14.4	.163 (-15.778 )
.6	.874 (-1.174)	-7.0	.336 (-9.469)	-14.6	.152 (-16.391 )
.4	.896 (-0.959)	-7.2	.302 (-10.392)	-14.8	.14 (-17.065 )
.2	.916 (-0.766)	-7.4	.269 (-11.395)	-15.0	.129 (-17.799 )
.0	.934 (-0.596)	-7.6	.238 (-12.484)	-15.2	.118 (-18.587 )
-.2	.95 (-0.448)	-7.8	.207 (-13.663)	-15.4	.107 (-19.421 )
-.4	.964 (-0.321)	-8.0	.179 (-14.929)	-15.6	.097 (-20.278 )
-.6	.975 (-0.216)	-8.2	.154 (-16.259)	-15.8	.088 (-21.119 )
-.8	.985 (-0.132)	-8.4	.132 (-17.591)	-16.0	.08 (-21.885 )
-1.0	.992 (-0.068)	-8.6	.115 (-18.793)	-16.2	.075 (-22.49 )
-1.2	.997 (-0.025)	-8.8	.104 (-19.655)	-16.4	.072 (-22.849 )
-1.4	1.00 (-0.002)	-9.0	.10 (-19.971)	-16.6	.072 (-22.907 )
-1.6	1.00 (0)	-9.2	.103 (-19.706)	-16.8	.074 (-22.674 )
-1.8	.998 (-0.018)	-9.4	.112 (-19.031)	-17.0	.077 (-22.216 )
-2.0	.994 (-0.057)	-9.6	.123 (-18.171)	-17.2	.083 (-21.622 )
-2.2	.987 (-0.116)	-9.8	.137 (-17.282)	-17.4	.089 (-20.97 )
-2.4	.978 (-0.195)	-10.0	.151 (-16.447)	-17.6	.096 (-20.315 )
-2.6	.967 (-0.296)	-10.2	.164 (-15.698)	-17.8	.104 (-19.69 )
-2.8	.953 (-0.418)	-10.4	.177 (-15.043)	-18.0	.111 (-19.113 )
-3.0	.937 (-0.561)	-10.6	.189 (-14.48)	-18.2	.118 (-18.593 )
-3.2	.92 (-0.726)	-10.8	.199 (-14.003)	-18.4	.124 (-18.132 )
-3.4	.90 (-0.914)	-11.0	.209 (-13.607)	-18.6	.13 (-17.731 )
-3.6	.879 (-1.124)	-11.2	.217 (-13.285)	-18.8	.135 (-17.388 )
-3.8	.855 (-1.358)	-11.4	.223 (-13.032)	-19.0	.14 (-17.101 )
-4.0	.83 (-1.617)	-11.6	.228 (-12.842)	-19.2	.143 (-16.868 )
-4.2	.803 (-1.901)	-11.8	.231 (-12.712)	-19.4	.146 (-16.687 )

Systems With Reliability Inc

Page 1 of 2

CLIENT: *KEJR-LD*

Date: 4/4/2008

ANTENNA TYPE: SWEDM8MCRR/40-DT CP

FREQUENCY: 629

PATTERN POL.: Circular

DIRECTIVITY(Peak): 8.292/9.187 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 7.229/8.591 dBd

Null Fill(s)(%) : 10, 7, 5

# Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.149 (-16.557)	-27.2	.111 (-19.081)	-54.0	.055 (-25.267 )
-19.8	.15 (-16.476)	-27.4	.114 (-18.863)	-55.0	.074 (-22.63 )
-20.0	.151 (-16.442)	-27.6	.116 (-18.692)	-56.0	.094 (-20.568 )
-20.2	.15 (-16.456)	-27.8	.118 (-18.566)	-57.0	.111 (-19.125 )
-20.4	.149 (-16.515)	-28.0	.119 (-18.485)	-58.0	.123 (-18.195 )
-20.6	.148 (-16.622)	-28.2	.12 (-18.445)	-59.0	.13 (-17.688 )
-20.8	.145 (-16.775)	-28.4	.12 (-18.448)	-60.0	.133 (-17.549 )
-21.0	.142 (-16.974)	-28.6	.119 (-18.493)	-61.0	.13 (-17.744 )
-21.2	.138 (-17.222)	-28.8	.118 (-18.579)	-62.0	.122 (-18.256 )
-21.4	.133 (-17.519)	-29.0	.116 (-18.707)	-63.0	.111 (-19.08 )
-21.6	.128 (-17.867)	-29.2	.114 (-18.877)	-64.0	.098 (-20.205 )
-21.8	.122 (-18.268)	-29.4	.111 (-19.09)	-65.0	.083 (-21.588 )
-22.0	.116 (-18.723)	-29.6	.108 (-19.347)	-66.0	.07 (-23.062 )
-22.2	.109 (-19.235)	-29.8	.104 (-19.648)	-67.0	.062 (-24.188 )
-22.4	.102 (-19.807)	-30.0	.10 (-19.996)	-68.0	.061 (-24.342 )
-22.6	.095 (-20.441)	-31.0	.075 (-22.489)	-69.0	.067 (-23.434 )
-22.8	.088 (-21.135)	-32.0	.05 (-26.081)	-70.0	.079 (-22.036 )
-23.0	.08 (-21.89)	-33.0	.043 (-27.34)	-71.0	.093 (-20.631 )
-23.2	.073 (-22.696)	-34.0	.062 (-24.176)	-72.0	.107 (-19.41 )
-23.4	.067 (-23.536)	-35.0	.085 (-21.393)	-73.0	.12 (-18.409 )
-23.6	.06 (-24.377)	-36.0	.102 (-19.81)	-74.0	.132 (-17.617 )
-23.8	.055 (-25.161)	-37.0	.109 (-19.224)	-75.0	.141 (-17.012 )
-24.0	.051 (-25.804)	-38.0	.106 (-19.513)	-76.0	.148 (-16.571 )
-24.2	.049 (-26.21)	-39.0	.092 (-20.679)	-77.0	.154 (-16.273 )
-24.4	.048 (-26.303)	-40.0	.072 (-22.818)	-78.0	.157 (-16.104 )
-24.6	.05 (-26.074)	-41.0	.051 (-25.886)	-79.0	.158 (-16.052 )
-24.8	.053 (-25.586)	-42.0	.04 (-27.869)	-80.0	.157 (-16.108 )
-25.0	.057 (-24.934)	-43.0	.052 (-25.677)	-81.0	.154 (-16.264 )
-25.2	.062 (-24.208)	-44.0	.073 (-22.717)	-82.0	.149 (-16.518 )
-25.4	.067 (-23.47)	-45.0	.093 (-20.663)	-83.0	.143 (-16.868 )
-25.6	.073 (-22.76)	-46.0	.106 (-19.476)	-84.0	.136 (-17.314 )
-25.8	.079 (-22.097)	-47.0	.112 (-19.005)	-85.0	.128 (-17.859 )
-26.0	.084 (-21.492)	-48.0	.11 (-19.173)	-86.0	.119 (-18.512 )
-26.2	.09 (-20.947)	-49.0	.10 (-19.968)	-87.0	.109 (-19.282 )
-26.4	.095 (-20.462)	-50.0	.085 (-21.435)	-88.0	.098 (-20.184 )
-26.6	.10 (-20.035)	-51.0	.066 (-23.628)	-89.0	.087 (-21.244 )
-26.8	.104 (-19.664)	-52.0	.049 (-26.243)	-90.0	.075 (-22.496 )
-27.0	.108 (-19.347)	-53.0	.043 (-27.291)	90.0	.00 (-50 )

Systems With Reliability Inc

Page 2 of 2

CLIENT: KEJR-LD

Date: 4/4/2008

ANTENNA TYPE: SWEDM8MCRR/40-DT CP

FREQUENCY: 629

PATTERN POL.: Circular

DIRECTIVITY(Peak): 8.292/9.187 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 7.229/8.591 dBd

Null Fill(s)(%) : 10, 7, 5