

**SYSTEMS WITH RELIABILITY, Inc.****Broadcast Antennas & Transmission Systems****SYSTEM DATA SHEET**

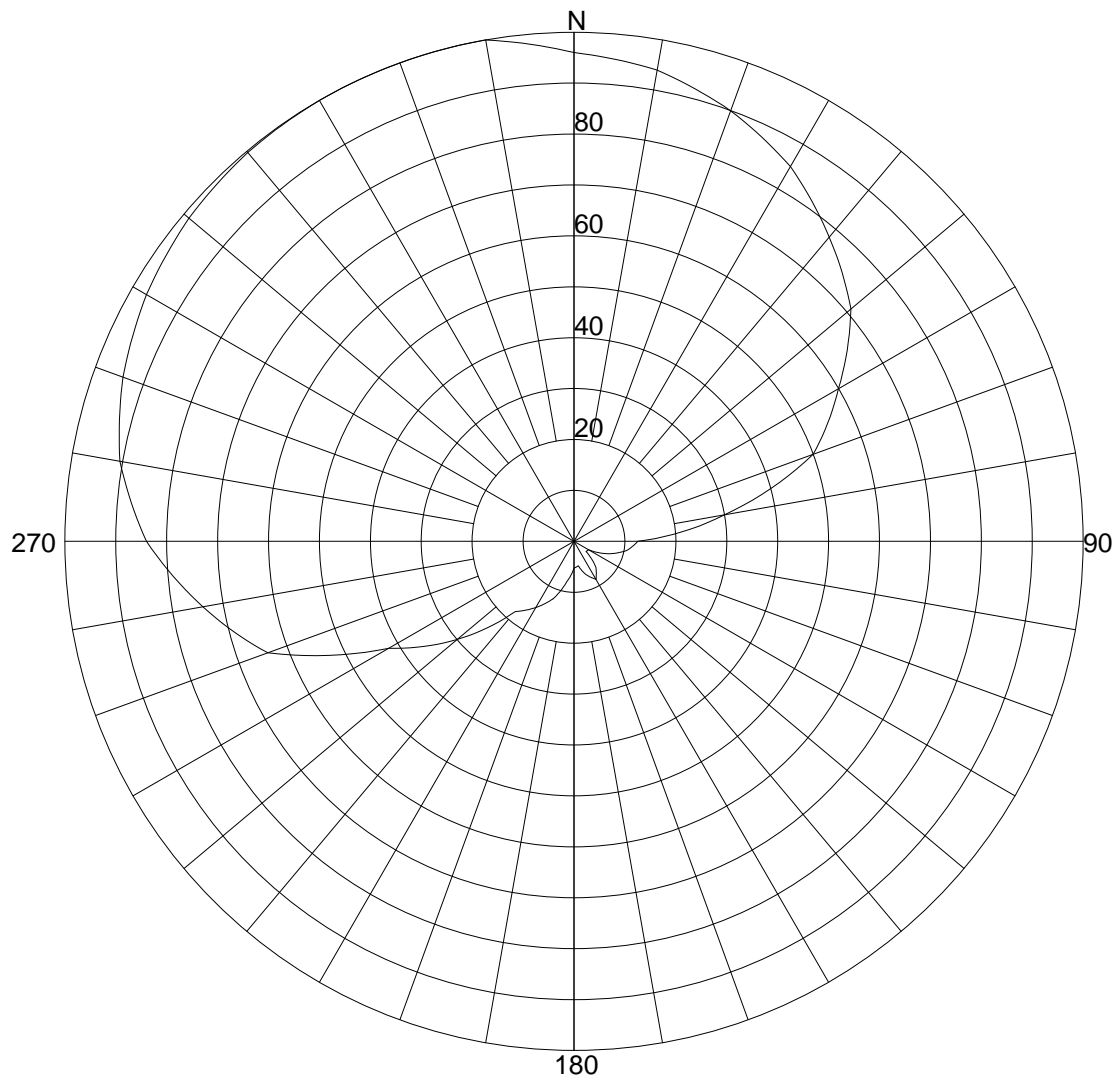
Customer WMEI
Contact Clarence Beverage
Location Puerto Rico
Antenna Model SWEDM4WLRR / 14-DT
Channel / Frequency 14 473 MHz

ELECTRICAL SPECIFICATION

Polarization Type	Horizontal		
Polarization Ratio			
	H-Pol. (PRH)	100.0000	%
Elevation Directivity (ED)	4.129		
Azimuth Directivity (AD) H-Pol.	2.434		
Antenna Gain (GH)			
	H-Pol. (GH)	10.049	
dB Gain (AG)			
	H-Pol (AGH)	10.021	dB
ERP			
	H-Pol. (ERPH)	50.000	kW
Beam Tilt	-1.500 Degrees		
Null Fill	0.00 %		

Prepared by:

Mark A. Gergely



Azimuth Pattern

Scale: Linear

Unit: Relative Field

Systems With Reliability Inc

CLIENT: *WMEI*

Date: 2/29/2008

ANTENNA TYPE: SWEDM4WLRR / 14-DT

FREQUENCY: 473

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 2.43377 / 3.863dB

PATTERN RMS: 0.641

Relative Field Tabulation(Azimuth)

Azimuth Heading	Normalized Field(dB)	Azimuth Heading	Normalized Field(dB)
0	.9600 (-0.355)	180	.0527 (-25.564)
5	.9500 (-0.446)	185	.0664 (-23.563)
10	.9400 (-0.537)	190	.0800 (-21.938)
15	.9200 (-0.724)	195	.1000 (-20)
20	.9000 (-0.915)	200	.1200 (-18.416)
25	.8750 (-1.16)	205	.1350 (-17.393)
30	.8500 (-1.412)	210	.1500 (-16.478)
35	.8150 (-1.777)	215	.1650 (-15.65)
40	.7800 (-2.158)	220	.1800 (-14.895)
45	.7450 (-2.557)	225	.2400 (-12.396)
50	.7100 (-2.975)	230	.3000 (-10.458)
55	.6550 (-3.675)	235	.3600 (-8.874)
60	.6000 (-4.437)	240	.4200 (-7.535)
65	.5500 (-5.193)	245	.5300 (-5.514)
70	.5000 (-6.021)	250	.6400 (-3.876)
75	.4000 (-7.959)	255	.6900 (-3.223)
80	.3000 (-10.458)	260	.7400 (-2.615)
85	.2128 (-13.443)	265	.7900 (-2.047)
90	.1255 (-18.027)	270	.8400 (-1.514)
95	.1152 (-18.775)	275	.8729 (-1.181)
100	.1048 (-19.593)	280	.9057 (-0.86)
105	.0880 (-21.115)	285	.9242 (-0.685)
110	.0711 (-22.963)	290	.9427 (-0.513)
115	.0520 (-25.68)	295	.9561 (-0.39)
120	.0329 (-29.656)	300	.9695 (-0.269)
125	.0319 (-29.924)	305	.9784 (-0.19)
130	.0309 (-30.201)	310	.9873 (-0.111)
135	.0489 (-26.223)	315	.9922 (-0.068)
140	.0668 (-23.504)	320	.9970 (-0.026)
145	.0765 (-22.327)	325	.9985 (-0.013)
150	.0862 (-21.29)	330	1.0000 (0)
155	.0779 (-22.169)	335	1.0000 (0)
160	.0696 (-23.148)	340	1.0000 (0)
165	.0592 (-24.561)	345	1.0000 (0)
170	.0487 (-26.249)	350	1.0000 (0)
175	.0507 (-25.9)	355	.9800 (-0.175)

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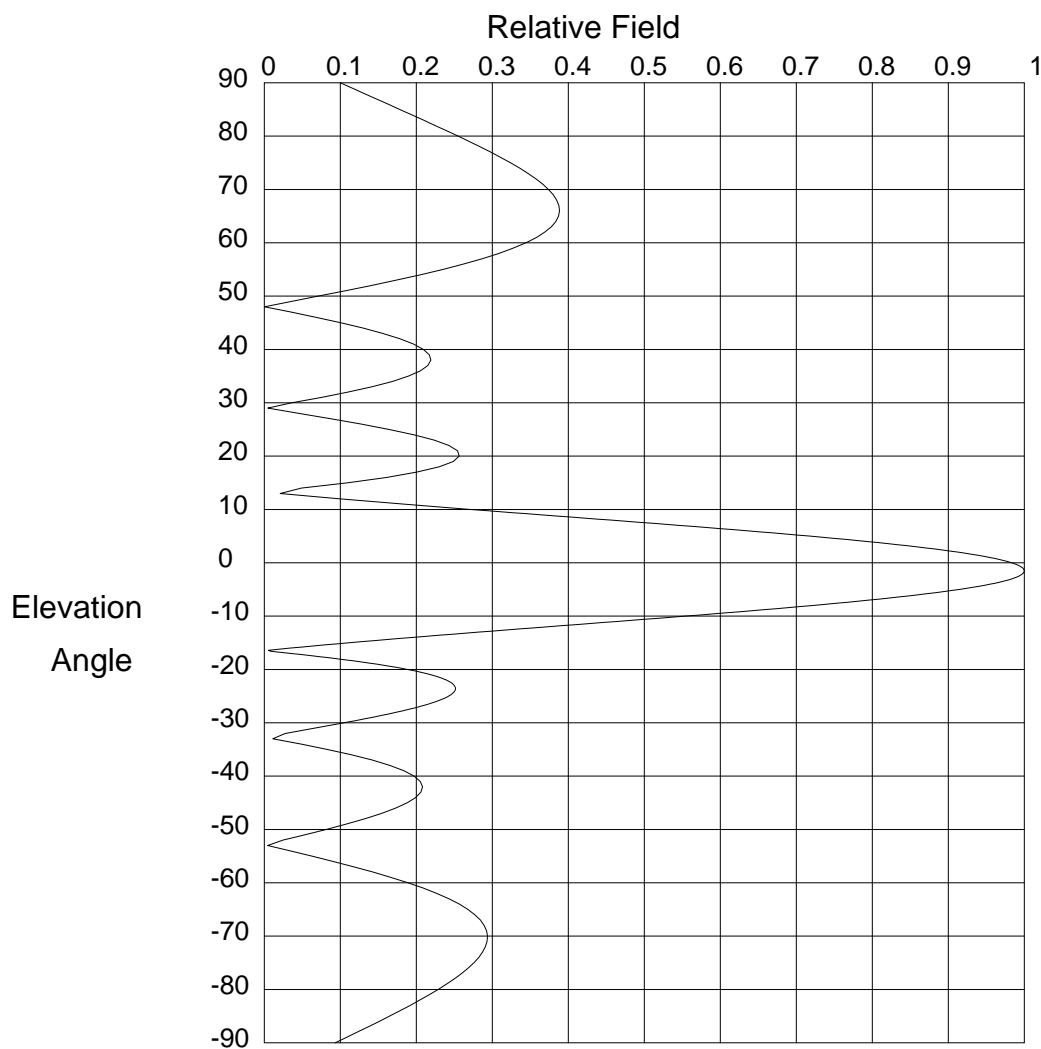
FREQUENCY: 473

PATTERN POL.: Horizontal

CIRCULARITY(+/-dB):

AZ. DIRECTIVITY: 2.43377 / 3.863dB

PATTERN RMS: 0.641



Elevation Pattern

Scale: Linear

Units: Field, Relative

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CLIENT: *WMEI*

Date: 2/29/2008

ANTENNA TYPE: SWEDM4WLRR / 14-DT

FREQUENCY: 473

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 4.129/6.158 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 3.994/6.014 dBd

Null Fill(s)(%) : 0, 0, 0

Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
90.0	.10 (-19.997)	52.0	.141 (-17.019)	14.0	.049 (-26.207)
89.0	.116 (-18.73)	51.0	.106 (-19.454)	13.0	.021 (-33.566)
88.0	.131 (-17.624)	50.0	.071 (-22.961)	12.0	.099 (-20.107)
87.0	.147 (-16.645)	49.0	.035 (-29.044)	11.0	.183 (-14.751)
86.0	.163 (-15.766)	48.0	.00 (-67.74)	10.0	.272 (-11.31)
85.0	.178 (-14.97)	47.0	.035 (-29.009)	9.8	.29 (-10.748)
84.0	.194 (-14.243)	46.0	.069 (-23.199)	9.6	.308 (-10.217)
83.0	.209 (-13.577)	45.0	.101 (-19.911)	9.4	.327 (-9.714)
82.0	.225 (-12.962)	44.0	.13 (-17.701)	9.2	.345 (-9.237)
81.0	.24 (-12.395)	43.0	.156 (-16.117)	9.0	.364 (-8.784)
80.0	.255 (-11.869)	42.0	.179 (-14.96)	8.8	.382 (-8.353)
79.0	.27 (-11.383)	41.0	.197 (-14.131)	8.6	.401 (-7.941)
78.0	.284 (-10.933)	40.0	.21 (-13.574)	8.4	.419 (-7.548)
77.0	.298 (-10.517)	39.0	.217 (-13.262)	8.2	.438 (-7.173)
76.0	.311 (-10.136)	38.0	.219 (-13.181)	8.0	.456 (-6.814)
75.0	.324 (-9.787)	37.0	.215 (-13.335)	7.8	.475 (-6.47)
74.0	.336 (-9.471)	36.0	.206 (-13.741)	7.6	.493 (-6.14)
73.0	.347 (-9.187)	35.0	.19 (-14.432)	7.4	.511 (-5.824)
72.0	.357 (-8.937)	34.0	.168 (-15.472)	7.2	.53 (-5.521)
71.0	.366 (-8.722)	33.0	.142 (-16.973)	7.0	.548 (-5.229)
70.0	.374 (-8.541)	32.0	.11 (-19.155)	6.8	.566 (-4.95)
69.0	.38 (-8.398)	31.0	.075 (-22.533)	6.6	.583 (-4.681)
68.0	.385 (-8.294)	30.0	.036 (-28.864)	6.4	.601 (-4.423)
67.0	.388 (-8.231)	29.0	.005 (-46.463)	6.2	.618 (-4.175)
66.0	.389 (-8.212)	28.0	.047 (-26.649)	6.0	.636 (-3.937)
65.0	.387 (-8.24)	27.0	.088 (-21.113)	5.8	.653 (-3.708)
64.0	.384 (-8.32)	26.0	.128 (-17.869)	5.6	.669 (-3.488)
63.0	.378 (-8.456)	25.0	.165 (-15.672)	5.4	.686 (-3.276)
62.0	.369 (-8.653)	24.0	.197 (-14.112)	5.2	.702 (-3.073)
61.0	.358 (-8.918)	23.0	.224 (-13.011)	5.0	.718 (-2.878)
60.0	.344 (-9.26)	22.0	.243 (-12.283)	4.8	.734 (-2.691)
59.0	.328 (-9.687)	21.0	.254 (-11.887)	4.6	.749 (-2.512)
58.0	.309 (-10.214)	20.0	.257 (-11.816)	4.4	.764 (-2.34)
57.0	.287 (-10.857)	19.0	.249 (-12.087)	4.2	.778 (-2.175)
56.0	.262 (-11.637)	18.0	.23 (-12.758)	4.0	.793 (-2.017)
55.0	.235 (-12.585)	17.0	.201 (-13.943)	3.8	.807 (-1.866)
54.0	.205 (-13.745)	16.0	.161 (-15.885)	3.6	.82 (-1.722)
53.0	.174 (-15.186)	15.0	.11 (-19.191)	3.4	.833 (-1.584)

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CLIENT: WMEI

Date: 2/29/2008

ANTENNA TYPE: SWEDM4WLRR / 14-DT

FREQUENCY: 473

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 4.129/6.158 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 3.994/6.014 dBd

Null Fill(s)(%) : 0, 0, 0

Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
3.2	.846 (-1.453)	-4.4	.941 (-0.531)	-12.0	.373 (-8.575)
3.0	.858 (-1.328)	-4.6	.932 (-0.609)	-12.2	.354 (-9.01)
2.8	.87 (-1.209)	-4.8	.923 (-0.691)	-12.4	.336 (-9.468)
2.6	.881 (-1.096)	-5.0	.914 (-0.78)	-12.6	.318 (-9.949)
2.4	.892 (-0.99)	-5.2	.904 (-0.874)	-12.8	.30 (-10.456)
2.2	.903 (-0.889)	-5.4	.894 (-0.973)	-13.0	.282 (-10.991)
2.0	.913 (-0.794)	-5.6	.883 (-1.078)	-13.2	.264 (-11.558)
1.8	.922 (-0.704)	-5.8	.872 (-1.19)	-13.4	.247 (-12.161)
1.6	.931 (-0.62)	-6.0	.86 (-1.307)	-13.6	.229 (-12.803)
1.4	.94 (-0.542)	-6.2	.848 (-1.43)	-13.8	.212 (-13.49)
1.2	.947 (-0.469)	-6.4	.836 (-1.559)	-14.0	.194 (-14.228)
1.0	.955 (-0.402)	-6.6	.823 (-1.695)	-14.2	.177 (-15.026)
.8	.962 (-0.34)	-6.8	.809 (-1.837)	-14.4	.16 (-15.895)
.6	.968 (-0.283)	-7.0	.796 (-1.985)	-14.6	.144 (-16.847)
.4	.974 (-0.231)	-7.2	.782 (-2.14)	-14.8	.127 (-17.902)
.2	.979 (-0.185)	-7.4	.767 (-2.302)	-15.0	.111 (-19.084)
.0	.984 (-0.144)	-7.6	.752 (-2.472)	-15.2	.095 (-20.43)
-.2	.988 (-0.108)	-7.8	.737 (-2.648)	-15.4	.079 (-21.996)
-.4	.991 (-0.078)	-8.0	.722 (-2.831)	-15.6	.064 (-23.87)
-.6	.994 (-0.052)	-8.2	.706 (-3.023)	-15.8	.049 (-26.213)
-.8	.996 (-0.031)	-8.4	.69 (-3.222)	-16.0	.034 (-29.357)
-1.0	.998 (-0.016)	-8.6	.674 (-3.429)	-16.2	.02 (-34.197)
-1.2	.999 (-0.006)	-8.8	.657 (-3.644)	-16.4	.005 (-45.562)
-1.4	1.00 (0)	-9.0	.641 (-3.869)	-16.6	.009 (-41.269)
-1.6	1.00 (0)	-9.2	.624 (-4.102)	-16.8	.022 (-33.065)
-1.8	.999 (-0.005)	-9.4	.606 (-4.344)	-17.0	.035 (-29.005)
-2.0	.998 (-0.015)	-9.6	.589 (-4.596)	-17.2	.048 (-26.312)
-2.2	.997 (-0.029)	-9.8	.572 (-4.858)	-17.4	.061 (-24.309)
-2.4	.994 (-0.049)	-10.0	.554 (-5.131)	-17.6	.073 (-22.726)
-2.6	.991 (-0.074)	-10.2	.536 (-5.415)	-17.8	.085 (-21.426)
-2.8	.988 (-0.104)	-10.4	.518 (-5.71)	-18.0	.096 (-20.329)
-3.0	.984 (-0.14)	-10.6	.50 (-6.017)	-18.2	.107 (-19.386)
-3.2	.979 (-0.18)	-10.8	.482 (-6.338)	-18.4	.118 (-18.564)
-3.4	.974 (-0.225)	-11.0	.464 (-6.671)	-18.6	.128 (-17.839)
-3.6	.969 (-0.276)	-11.2	.446 (-7.019)	-18.8	.138 (-17.196)
-3.8	.963 (-0.332)	-11.4	.427 (-7.383)	-19.0	.148 (-16.62)
-4.0	.956 (-0.393)	-11.6	.409 (-7.762)	-19.2	.157 (-16.103)
-4.2	.948 (-0.46)	-11.8	.391 (-8.159)	-19.4	.165 (-15.636)

Systems With Reliability Inc

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Date: 2/29/2008

ANTENNA TYPE: SWEDM4WLRR / 14-DT

FREQUENCY: 473

PATTERN POL.: Horizontal

DIRECTIVITY(Peak): 4.129/6.158 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 3.994/6.014 dBd

Null Fill(s)(%) : 0, 0, 0

Relative Field Tabulation

Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)	Elev. Angle	Rel. Fld(dB)
-19.6	.174 (-15.214)	-27.2	.198 (-14.062)	-54.0	.034 (-29.435)
-19.8	.181 (-14.831)	-27.4	.193 (-14.309)	-55.0	.063 (-24.064)
-20.0	.189 (-14.483)	-27.6	.187 (-14.573)	-56.0	.091 (-20.845)
-20.2	.196 (-14.167)	-27.8	.181 (-14.855)	-57.0	.118 (-18.584)
-20.4	.202 (-13.881)	-28.0	.175 (-15.156)	-58.0	.143 (-16.877)
-20.6	.208 (-13.62)	-28.2	.168 (-15.476)	-59.0	.167 (-15.537)
-20.8	.214 (-13.384)	-28.4	.162 (-15.818)	-60.0	.189 (-14.46)
-21.0	.219 (-13.171)	-28.6	.155 (-16.183)	-61.0	.209 (-13.584)
-21.2	.224 (-12.979)	-28.8	.148 (-16.573)	-62.0	.227 (-12.869)
-21.4	.229 (-12.807)	-29.0	.141 (-16.989)	-63.0	.243 (-12.285)
-21.6	.233 (-12.654)	-29.2	.134 (-17.435)	-64.0	.257 (-11.812)
-21.8	.237 (-12.519)	-29.4	.127 (-17.913)	-65.0	.268 (-11.435)
-22.0	.24 (-12.4)	-29.6	.12 (-18.427)	-66.0	.277 (-11.141)
-22.2	.243 (-12.297)	-29.8	.112 (-18.98)	-67.0	.284 (-10.922)
-22.4	.245 (-12.21)	-30.0	.105 (-19.579)	-68.0	.289 (-10.769)
-22.6	.247 (-12.138)	-31.0	.067 (-23.536)	-69.0	.293 (-10.677)
-22.8	.249 (-12.08)	-32.0	.027 (-31.239)	-70.0	.294 (-10.641)
-23.0	.25 (-12.036)	-33.0	.011 (-38.944)	-71.0	.293 (-10.657)
-23.2	.251 (-12.005)	-34.0	.049 (-26.282)	-72.0	.291 (-10.722)
-23.4	.252 (-11.988)	-35.0	.083 (-21.586)	-73.0	.287 (-10.833)
-23.6	.252 (-11.984)	-36.0	.115 (-18.797)	-74.0	.282 (-10.988)
-23.8	.251 (-11.992)	-37.0	.142 (-16.925)	-75.0	.276 (-11.187)
-24.0	.251 (-12.013)	-38.0	.166 (-15.617)	-76.0	.268 (-11.428)
-24.2	.25 (-12.046)	-39.0	.184 (-14.705)	-77.0	.26 (-11.71)
-24.4	.249 (-12.091)	-40.0	.197 (-14.101)	-78.0	.25 (-12.035)
-24.6	.247 (-12.149)	-41.0	.205 (-13.752)	-79.0	.24 (-12.402)
-24.8	.245 (-12.219)	-42.0	.208 (-13.629)	-80.0	.229 (-12.814)
-25.0	.243 (-12.301)	-43.0	.206 (-13.715)	-81.0	.217 (-13.273)
-25.2	.24 (-12.396)	-44.0	.199 (-14.007)	-82.0	.205 (-13.781)
-25.4	.237 (-12.503)	-45.0	.188 (-14.51)	-83.0	.192 (-14.343)
-25.6	.234 (-12.622)	-46.0	.173 (-15.244)	-84.0	.179 (-14.964)
-25.8	.23 (-12.755)	-47.0	.154 (-16.243)	-85.0	.165 (-15.653)
-26.0	.226 (-12.9)	-48.0	.132 (-17.571)	-86.0	.151 (-16.418)
-26.2	.222 (-13.058)	-49.0	.108 (-19.34)	-87.0	.137 (-17.272)
-26.4	.218 (-13.23)	-50.0	.082 (-21.776)	-88.0	.123 (-18.235)
-26.6	.213 (-13.416)	-51.0	.054 (-25.408)	-89.0	.108 (-19.33)
-26.8	.209 (-13.616)	-52.0	.025 (-32.098)	-90.0	.093 (-20.593)
-27.0	.203 (-13.832)	-53.0	.004 (-47.034)	90.0	.00 (-50)

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ANTENNA TYPE: SWEDM4WLRR / 14-DT

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DIRECTIVITY(Peak): 4.129/6.158 dBd

Beam Tilt (Deg.) : -1.5

DIRECTIVITY(Horiz): 3.994/6.014 dBd

Null Fill(s)(%) : 0, 0, 0