



Elevation Pattern

Scale: Linear

Systems With Reliability Inc.

Units: Field, Relative

CLIENT: *General*

Date: 11/10/03

ANTENNA TYPE: FM1/1

FREQUENCY: 98.1

PATTERN POL.: Circular

DIRECTIVITY(Peak): 0.883/-0.539 dBd

Beam Tilt (Deg.) : 0

DIRECTIVITY(Horiz): 0.883/-0.539 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 | .999 (-0.012) | -4.4 | .997 (-0.023) | -12.0 | .98 (-0.173) |
| 3.0 | .999 (-0.011) | -4.6 | .997 (-0.025) | -12.2 | .98 (-0.178) |
| 2.8 | .999 (-0.009) | -4.8 | .997 (-0.027) | -12.4 | .979 (-0.184) |
| 2.6 | .999 (-0.008) | -5.0 | .997 (-0.03) | -12.6 | .978 (-0.19) |
| 2.4 | .999 (-0.007) | -5.2 | .996 (-0.032) | -12.8 | .978 (-0.196) |
| 2.2 | .999 (-0.006) | -5.4 | .996 (-0.035) | -13.0 | .977 (-0.203) |
| 2.0 | .999 (-0.005) | -5.6 | .996 (-0.037) | -13.2 | .976 (-0.209) |
| 1.8 | 1.00 (-0.004) | -5.8 | .995 (-0.04) | -13.4 | .975 (-0.215) |
| 1.6 | 1.00 (-0.003) | -6.0 | .995 (-0.043) | -13.6 | .975 (-0.222) |
| 1.4 | 1.00 (-0.002) | -6.2 | .995 (-0.046) | -13.8 | .974 (-0.229) |
| 1.2 | 1.00 (-0.002) | -6.4 | .994 (-0.049) | -14.0 | .973 (-0.235) |
| 1.0 | 1.00 (-0.001) | -6.6 | .994 (-0.052) | -14.2 | .973 (-0.242) |
| .8 | 1.00 (-0.001) | -6.8 | .994 (-0.055) | -14.4 | .972 (-0.249) |
| .6 | 1.00 (0) | -7.0 | .993 (-0.058) | -14.6 | .971 (-0.256) |
| .4 | 1.00 (0) | -7.2 | .993 (-0.062) | -14.8 | .97 (-0.263) |
| .2 | 1.00 (0) | -7.4 | .993 (-0.065) | -15.0 | .969 (-0.271) |
| .0 | 1.00 (0) | -7.6 | .992 (-0.069) | -15.2 | .969 (-0.278) |
| -.2 | 1.00 (0) | -7.8 | .992 (-0.073) | -15.4 | .968 (-0.285) |
| -.4 | 1.00 (0) | -8.0 | .991 (-0.076) | -15.6 | .967 (-0.293) |
| -.6 | 1.00 (0) | -8.2 | .991 (-0.08) | -15.8 | .966 (-0.3) |
| -.8 | 1.00 (-0.001) | -8.4 | .99 (-0.084) | -16.0 | .965 (-0.308) |
| -1.0 | 1.00 (-0.001) | -8.6 | .99 (-0.088) | -16.2 | .964 (-0.316) |
| -1.2 | 1.00 (-0.002) | -8.8 | .989 (-0.093) | -16.4 | .963 (-0.324) |
| -1.4 | 1.00 (-0.002) | -9.0 | .989 (-0.097) | -16.6 | .962 (-0.332) |
| -1.6 | 1.00 (-0.003) | -9.2 | .988 (-0.101) | -16.8 | .962 (-0.34) |
| -1.8 | 1.00 (-0.004) | -9.4 | .988 (-0.106) | -17.0 | .961 (-0.348) |
| -2.0 | .999 (-0.005) | -9.6 | .987 (-0.11) | -17.2 | .96 (-0.357) |
| -2.2 | .999 (-0.006) | -9.8 | .987 (-0.115) | -17.4 | .959 (-0.365) |
| -2.4 | .999 (-0.007) | -10.0 | .986 (-0.12) | -17.6 | .958 (-0.374) |
| -2.6 | .999 (-0.008) | -10.2 | .986 (-0.124) | -17.8 | .957 (-0.383) |
| -2.8 | .999 (-0.009) | -10.4 | .985 (-0.129) | -18.0 | .956 (-0.391) |
| -3.0 | .999 (-0.011) | -10.6 | .985 (-0.134) | -18.2 | .955 (-0.4) |
| -3.2 | .999 (-0.012) | -10.8 | .984 (-0.14) | -18.4 | .954 (-0.409) |
| -3.4 | .998 (-0.014) | -11.0 | .983 (-0.145) | -18.6 | .953 (-0.418) |
| -3.6 | .998 (-0.015) | -11.2 | .983 (-0.15) | -18.8 | .952 (-0.427) |
| -3.8 | .998 (-0.017) | -11.4 | .982 (-0.156) | -19.0 | .951 (-0.437) |
| -4.0 | .998 (-0.019) | -11.6 | .982 (-0.161) | -19.2 | .95 (-0.446) |
| -4.2 | .998 (-0.021) | -11.8 | .981 (-0.167) | -19.4 | .949 (-0.456) |

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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 | .948 (-0.465) | -27.2 | .90 (-0.911) | -54.0 | .629 (-4.027) |
| -19.8 | .947 (-0.475) | -27.4 | .899 (-0.924) | -55.0 | .616 (-4.205) |
| -20.0 | .946 (-0.485) | -27.6 | .898 (-0.939) | -56.0 | .603 (-4.39) |
| -20.2 | .945 (-0.495) | -27.8 | .896 (-0.953) | -57.0 | .59 (-4.58) |
| -20.4 | .944 (-0.505) | -28.0 | .895 (-0.967) | -58.0 | .577 (-4.778) |
| -20.6 | .942 (-0.515) | -28.2 | .893 (-0.981) | -59.0 | .564 (-4.982) |
| -20.8 | .941 (-0.525) | -28.4 | .892 (-0.996) | -60.0 | .55 (-5.193) |
| -21.0 | .94 (-0.535) | -28.6 | .89 (-1.01) | -61.0 | .536 (-5.411) |
| -21.2 | .939 (-0.546) | -28.8 | .889 (-1.025) | -62.0 | .523 (-5.638) |
| -21.4 | .938 (-0.556) | -29.0 | .887 (-1.04) | -63.0 | .509 (-5.873) |
| -21.6 | .937 (-0.567) | -29.2 | .886 (-1.055) | -64.0 | .495 (-6.116) |
| -21.8 | .936 (-0.578) | -29.4 | .884 (-1.07) | -65.0 | .48 (-6.369) |
| -22.0 | .934 (-0.589) | -29.6 | .883 (-1.085) | -66.0 | .466 (-6.631) |
| -22.2 | .933 (-0.6) | -29.8 | .881 (-1.101) | -67.0 | .452 (-6.904) |
| -22.4 | .932 (-0.611) | -30.0 | .879 (-1.116) | -68.0 | .437 (-7.187) |
| -22.6 | .931 (-0.622) | -31.0 | .871 (-1.195) | -69.0 | .423 (-7.483) |
| -22.8 | .93 (-0.633) | -32.0 | .863 (-1.277) | -70.0 | .408 (-7.791) |
| -23.0 | .928 (-0.645) | -33.0 | .855 (-1.363) | -71.0 | .393 (-8.112) |
| -23.2 | .927 (-0.656) | -34.0 | .846 (-1.451) | -72.0 | .378 (-8.448) |
| -23.4 | .926 (-0.668) | -35.0 | .837 (-1.543) | -73.0 | .363 (-8.799) |
| -23.6 | .925 (-0.68) | -36.0 | .828 (-1.638) | -74.0 | .348 (-9.167) |
| -23.8 | .923 (-0.692) | -37.0 | .819 (-1.737) | -75.0 | .333 (-9.553) |
| -24.0 | .922 (-0.704) | -38.0 | .809 (-1.839) | -76.0 | .318 (-9.959) |
| -24.2 | .921 (-0.716) | -39.0 | .799 (-1.944) | -77.0 | .302 (-10.387) |
| -24.4 | .92 (-0.728) | -40.0 | .789 (-2.054) | -78.0 | .287 (-10.839) |
| -24.6 | .918 (-0.74) | -41.0 | .779 (-2.167) | -79.0 | .272 (-11.317) |
| -24.8 | .917 (-0.753) | -42.0 | .769 (-2.283) | -80.0 | .256 (-11.826) |
| -25.0 | .916 (-0.765) | -43.0 | .758 (-2.404) | -81.0 | .241 (-12.367) |
| -25.2 | .914 (-0.778) | -44.0 | .747 (-2.529) | -82.0 | .225 (-12.946) |
| -25.4 | .913 (-0.791) | -45.0 | .736 (-2.658) | -83.0 | .21 (-13.569) |
| -25.6 | .912 (-0.803) | -46.0 | .725 (-2.791) | -84.0 | .194 (-14.241) |
| -25.8 | .91 (-0.816) | -47.0 | .714 (-2.928) | -85.0 | .178 (-14.97) |
| -26.0 | .909 (-0.83) | -48.0 | .702 (-3.071) | -86.0 | .163 (-15.768) |
| -26.2 | .908 (-0.843) | -49.0 | .69 (-3.217) | -87.0 | .147 (-16.648) |
| -26.4 | .906 (-0.856) | -50.0 | .679 (-3.369) | -88.0 | .131 (-17.627) |
| -26.6 | .905 (-0.87) | -51.0 | .666 (-3.525) | -89.0 | .116 (-18.733) |
| -26.8 | .903 (-0.883) | -52.0 | .654 (-3.687) | -90.0 | .10 (-20) |
| -27.0 | .902 (-0.897) | -53.0 | .642 (-3.854) | 90.0 | .00 (-50) |

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