

TX station: Aks1

Gain solid integration : disabled

Site Name: Labelitaly

**General data of Antenna System**

|   |   |
|---|---|
| TX station                                  | Aks1                                    |
| Site Name                                   | Labelitaly                              |
| System of coordinates                       | Geographic                              |
| Longitude                                   | 00°00'00.000"                           |
| Latitude                                    | 00°00'00.000"                           |
| Ground level a.s.l. (m)                     | 100.0                                   |
| Antenna system height (m)                   | 50.0                                    |
| Transmitter power(Watt)                     | 1000.000                                |
| Carrier wave frequency (MHz)                | 98.000                                  |
| Antenna system central frequency (MHz)      | 98.000                                  |
| Antenna base diagrams type 1                | LABEL ITALY-AKS_1 DIPOLE FM WB DEMOUNT. |
| Antenna base diagrams type 2                | -                                       |
| Polarization (H/V/C/X)                      | V                                       |
| Transmitting cable attenuation (dB)         | 0.0                                     |
| Additional attenuations(dB)                 | 0.0                                     |
| Base diagrams sectors (T = All, F = Front)  | T                                       |
| Velocity factor of cables to Antennas (0÷1) | 0.88                                    |
| Coordinate System(C = cartesian, P = polar) | P                                       |
| Mast side / diameter(cm):                   | 10.0                                    |
| Mast cross section (T/Q/C)                  | C                                       |
| Structure rotation w.r.t. North (°)         | 0.0                                     |
| Mast rotation w.r.t. North (°)              | 0.0                                     |

**Information about antennas used in the System**

|                         |                       |
|-------------------------|-----------------------|
|                         | <i>Antenna type 1</i> |
| Manufacturer            | LABEL ITALY           |
| Antenna model           | AKS_1 DIPOLE FM WB    |
| Band start(MHz)         | 88                    |
| Band stop(MHz)          | 108                   |
| diagrams Frequency(MHz) | 98                    |
| Polariz (H,V,C,X)       | V                     |
| Vertical dist (cm)      | 260                   |
| Height (cm)             | 140                   |
| Width (cm)              | 6                     |
| Thickness (cm)          | 90                    |
| Weight (Kg)             | 4.5                   |
| Maximum power (KW)      | 2                     |
| Gain (dBd)              | 2.16                  |
| North E.C. (cm)         | 0                     |
| East E.C. (cm)          | 0                     |
| Return loss (dB)        | 20                    |
| R.C.Phase (°)           | 0                     |

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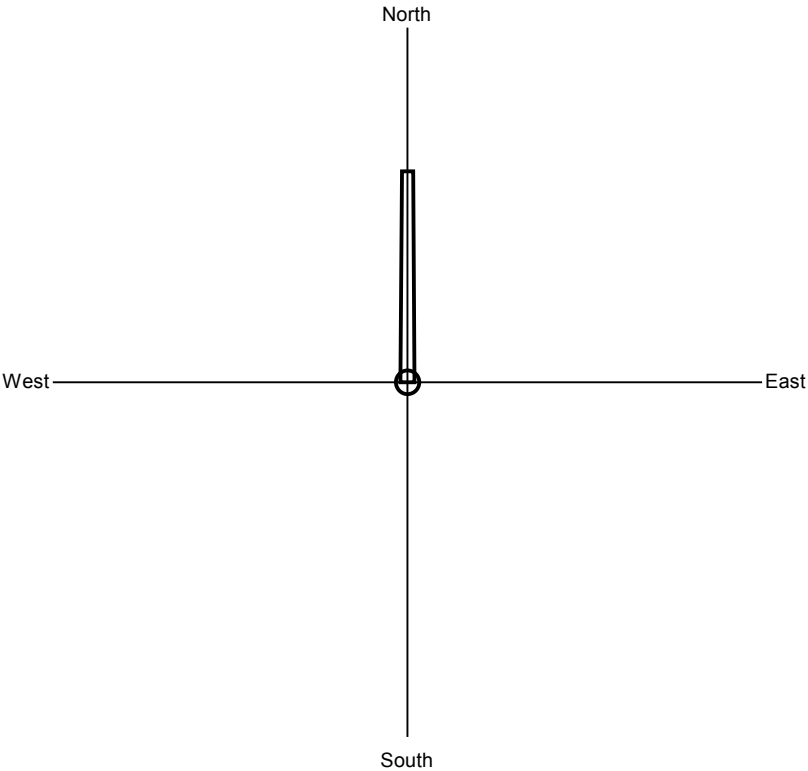
Geometr. and electrical data of Antenna System

|   | <i>Power</i><br>(%) | <i>Tilt</i><br>(°) | <i>Az.</i><br>(°/N) | <i>Phase</i><br>(°) |      | <i>V dist.</i><br>(m) | <i>Scr-d</i><br>(cm) | <i>Scr-Az</i><br>(°/N) | <i>Rot.</i><br>(1÷4) | <i>Type</i><br>(1÷2) | <i>L cables</i><br>(cm) | <i>Car. phase</i><br>(°) |
|---|---------------------|--------------------|---------------------|---------------------|------|-----------------------|----------------------|------------------------|----------------------|----------------------|-------------------------|--------------------------|
| 1 | 100.000             | 0                  | 0                   | 0                   | +0.0 | 0.00                  | 0.0                  | 0.0                    | 1                    | 1                    | 0.0                     | 0.0                      |

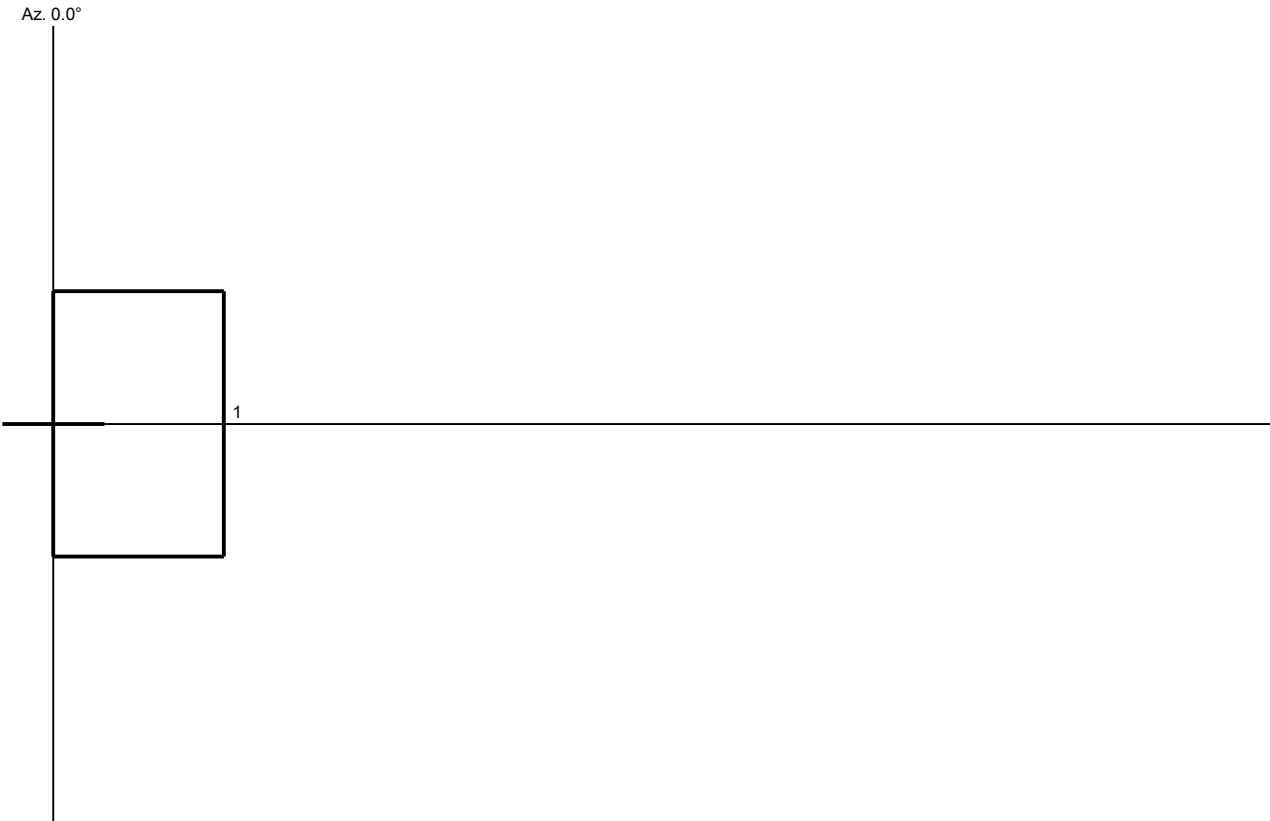
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Plan of antenna system



Side of antenna system



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Antennas arrays data

|                                   |         |
|-----------------------------------|---------|
| A. Antennas array azimuth (°/N)   | 0       |
| B. Number of antennas             | 1       |
| C. Nominal power supply (W)       | 1000.00 |
| D. Losses (addit. + cables) (dB)  | 0.0     |
| E. Effective power supply (W)     | 1000.00 |
| F. Theor. maximum gain (dBd)      | 2.16    |
| G. Distribution losses (dB)       | 0.00    |
| H. Nominal max gain [F - G] (dBd) | 2.16    |
| I. Compensation losses (dB)       | 0.00    |
| J. Effec. max gain [H - I] (dBd)  | 2.16    |
| K. Effec. max gain (times)        | 1.64    |
| L. Effec. max power [E * K] (KW)  | 1.6444  |
| M. Max power depr. angle (°)      | 0.0     |
| N. Max power az. angle (°)        | 340     |

Diagram in dBK calculated at horizon

| Az. (°/N) | dBK | Az. (°/N) | dBK  | Az. (°/N) | dBK  | Az. (°/N) | dBK  |
|-----------|-----|-----------|------|-----------|------|-----------|------|
| 0         | 2.2 | 90        | -0.7 | 180       | -4.0 | 270       | -0.7 |
| 10        | 2.2 | 100       | -1.6 | 190       | -4.0 | 280       | 0.1  |
| 20        | 2.2 | 110       | -2.5 | 200       | -3.9 | 290       | 0.8  |
| 30        | 2.1 | 120       | -3.1 | 210       | -3.9 | 300       | 1.3  |
| 40        | 2.0 | 130       | -3.5 | 220       | -3.7 | 310       | 1.8  |
| 50        | 1.8 | 140       | -3.7 | 230       | -3.5 | 320       | 2.0  |
| 60        | 1.3 | 150       | -3.9 | 240       | -3.1 | 330       | 2.1  |
| 70        | 0.8 | 160       | -3.9 | 250       | -2.5 | 340       | 2.2  |
| 80        | 0.1 | 170       | -4.0 | 260       | -1.6 | 350       | 2.2  |

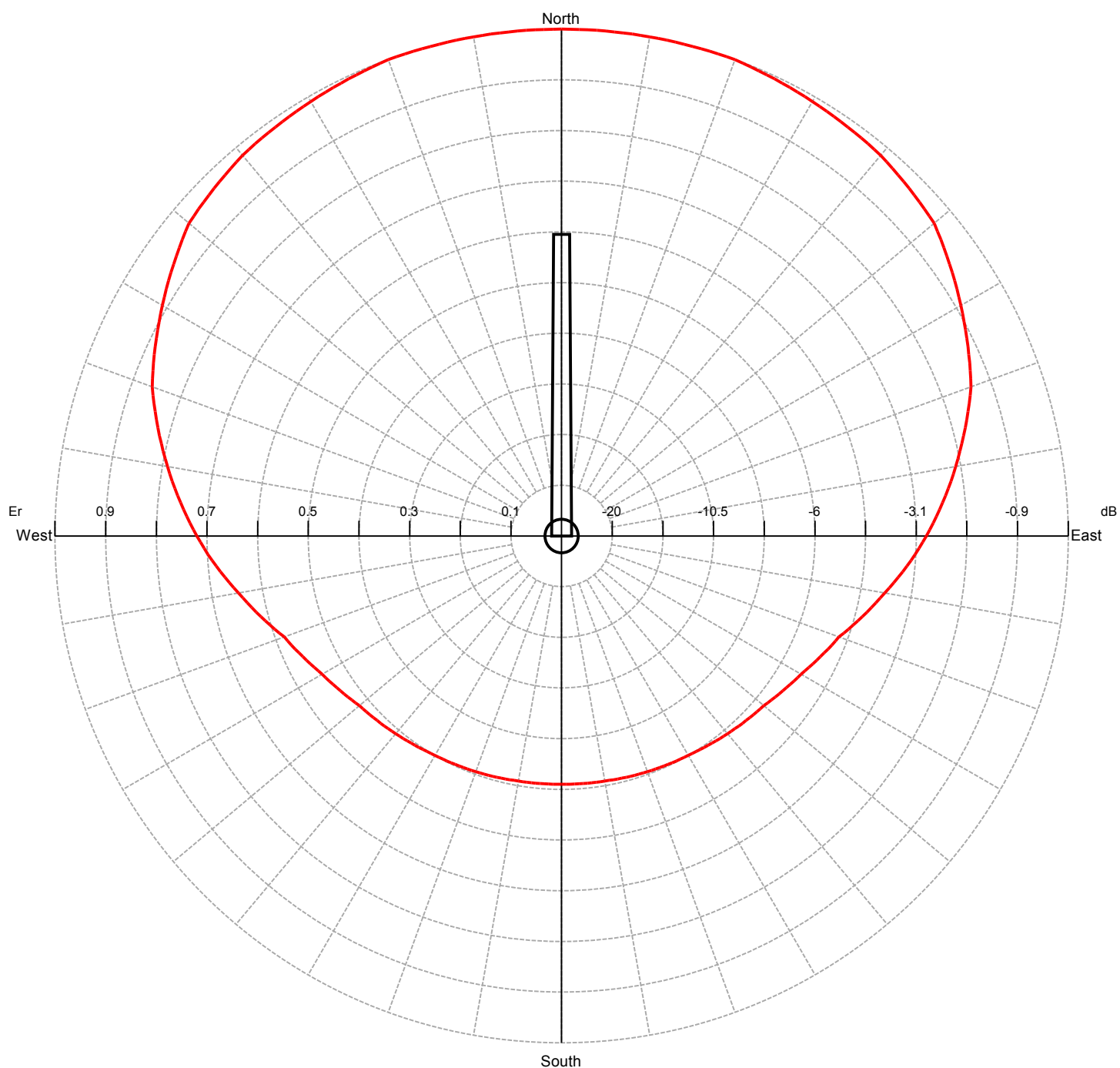
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## Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 2.16

ERP T.Max(KW): 1.6444

ERP E.Max(KW): 1.6444

TX station: Aks1

Frequency: 98.00 MHz

Gain solid integration : disabled

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**Horizontal diagram at 0.0° depres. (Total Antenna)**

| Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) |
|--------|--------|----------|--------|--------|----------|--------|--------|----------|
| 0.0    | 100.0  | 1.644    | 60.0   | 91.0   | 1.362    | 120.0  | 54.6   | 0.490    |
| 1.0    | 100.0  | 1.644    | 61.0   | 90.5   | 1.347    | 121.0  | 54.3   | 0.485    |
| 2.0    | 100.0  | 1.644    | 62.0   | 90.0   | 1.332    | 122.0  | 54.1   | 0.480    |
| 3.0    | 100.0  | 1.644    | 63.0   | 89.5   | 1.317    | 123.0  | 53.8   | 0.476    |
| 4.0    | 100.0  | 1.644    | 64.0   | 89.0   | 1.303    | 124.0  | 53.5   | 0.472    |
| 5.0    | 100.0  | 1.644    | 65.0   | 88.5   | 1.288    | 125.0  | 53.3   | 0.467    |
| 6.0    | 100.0  | 1.644    | 66.0   | 88.0   | 1.273    | 126.0  | 53.1   | 0.463    |
| 7.0    | 100.0  | 1.644    | 67.0   | 87.5   | 1.259    | 127.0  | 52.8   | 0.459    |
| 8.0    | 100.0  | 1.644    | 68.0   | 87.0   | 1.245    | 128.0  | 52.6   | 0.455    |
| 9.0    | 100.0  | 1.644    | 69.0   | 86.5   | 1.230    | 129.0  | 52.3   | 0.451    |
| 10.0   | 100.0  | 1.644    | 70.0   | 86.0   | 1.216    | 130.0  | 52.1   | 0.447    |
| 11.0   | 100.0  | 1.644    | 71.0   | 85.3   | 1.196    | 131.0  | 52.0   | 0.445    |
| 12.0   | 100.0  | 1.644    | 72.0   | 84.6   | 1.177    | 132.0  | 51.9   | 0.442    |
| 13.0   | 100.0  | 1.644    | 73.0   | 83.9   | 1.158    | 133.0  | 51.7   | 0.440    |
| 14.0   | 100.0  | 1.644    | 74.0   | 83.2   | 1.138    | 134.0  | 51.6   | 0.438    |
| 15.0   | 100.0  | 1.644    | 75.0   | 82.5   | 1.119    | 135.0  | 51.5   | 0.436    |
| 16.0   | 100.0  | 1.644    | 76.0   | 81.8   | 1.100    | 136.0  | 51.4   | 0.434    |
| 17.0   | 100.0  | 1.644    | 77.0   | 81.1   | 1.082    | 137.0  | 51.3   | 0.432    |
| 18.0   | 100.0  | 1.644    | 78.0   | 80.4   | 1.063    | 138.0  | 51.2   | 0.431    |
| 19.0   | 100.0  | 1.644    | 79.0   | 79.7   | 1.045    | 139.0  | 51.1   | 0.429    |
| 20.0   | 100.0  | 1.644    | 80.0   | 79.0   | 1.026    | 140.0  | 51.0   | 0.427    |
| 21.0   | 99.9   | 1.641    | 81.0   | 78.3   | 1.008    | 141.0  | 50.8   | 0.425    |
| 22.0   | 99.8   | 1.638    | 82.0   | 77.6   | 0.990    | 142.0  | 50.7   | 0.423    |
| 23.0   | 99.7   | 1.635    | 83.0   | 76.9   | 0.972    | 143.0  | 50.6   | 0.422    |
| 24.0   | 99.6   | 1.631    | 84.0   | 76.2   | 0.955    | 144.0  | 50.5   | 0.420    |
| 25.0   | 99.5   | 1.628    | 85.0   | 75.5   | 0.937    | 145.0  | 50.4   | 0.419    |
| 26.0   | 99.4   | 1.625    | 86.0   | 74.8   | 0.920    | 146.0  | 50.4   | 0.417    |
| 27.0   | 99.3   | 1.621    | 87.0   | 74.1   | 0.903    | 147.0  | 50.3   | 0.415    |
| 28.0   | 99.2   | 1.618    | 88.0   | 73.4   | 0.886    | 148.0  | 50.2   | 0.414    |
| 29.0   | 99.1   | 1.615    | 89.0   | 72.7   | 0.869    | 149.0  | 50.1   | 0.412    |
| 30.0   | 99.0   | 1.612    | 90.0   | 72.0   | 0.852    | 150.0  | 50.0   | 0.411    |
| 31.0   | 98.9   | 1.608    | 91.0   | 71.3   | 0.836    | 151.0  | 49.9   | 0.410    |
| 32.0   | 98.8   | 1.605    | 92.0   | 70.6   | 0.820    | 152.0  | 49.9   | 0.409    |
| 33.0   | 98.7   | 1.602    | 93.0   | 69.9   | 0.803    | 153.0  | 49.8   | 0.408    |
| 34.0   | 98.6   | 1.599    | 94.0   | 69.2   | 0.787    | 154.0  | 49.8   | 0.408    |
| 35.0   | 98.5   | 1.595    | 95.0   | 68.4   | 0.770    | 155.0  | 49.7   | 0.407    |
| 36.0   | 98.4   | 1.592    | 96.0   | 67.7   | 0.754    | 156.0  | 49.7   | 0.406    |
| 37.0   | 98.3   | 1.589    | 97.0   | 67.0   | 0.738    | 157.0  | 49.6   | 0.405    |
| 38.0   | 98.2   | 1.586    | 98.0   | 66.2   | 0.721    | 158.0  | 49.6   | 0.404    |
| 39.0   | 98.1   | 1.582    | 99.0   | 65.5   | 0.705    | 159.0  | 49.6   | 0.404    |
| 40.0   | 98.0   | 1.579    | 100.0  | 64.8   | 0.690    | 160.0  | 49.5   | 0.403    |
| 41.0   | 97.8   | 1.573    | 101.0  | 64.1   | 0.676    | 161.0  | 49.5   | 0.402    |
| 42.0   | 97.6   | 1.566    | 102.0  | 63.4   | 0.662    | 162.0  | 49.4   | 0.402    |
| 43.0   | 97.4   | 1.560    | 103.0  | 62.8   | 0.648    | 163.0  | 49.4   | 0.401    |
| 44.0   | 97.2   | 1.554    | 104.0  | 62.1   | 0.635    | 164.0  | 49.3   | 0.400    |
| 45.0   | 97.0   | 1.547    | 105.0  | 61.5   | 0.621    | 165.0  | 49.3   | 0.400    |
| 46.0   | 96.8   | 1.541    | 106.0  | 60.8   | 0.608    | 166.0  | 49.3   | 0.399    |
| 47.0   | 96.6   | 1.534    | 107.0  | 60.2   | 0.595    | 167.0  | 49.2   | 0.398    |
| 48.0   | 96.4   | 1.528    | 108.0  | 59.5   | 0.583    | 168.0  | 49.2   | 0.398    |
| 49.0   | 96.2   | 1.522    | 109.0  | 58.9   | 0.571    | 169.0  | 49.1   | 0.397    |
| 50.0   | 96.0   | 1.515    | 110.0  | 58.3   | 0.558    | 170.0  | 49.1   | 0.397    |
| 51.0   | 95.5   | 1.500    | 111.0  | 57.9   | 0.551    | 171.0  | 49.1   | 0.396    |
| 52.0   | 95.0   | 1.484    | 112.0  | 57.5   | 0.544    | 172.0  | 49.1   | 0.396    |
| 53.0   | 94.5   | 1.468    | 113.0  | 57.1   | 0.537    | 173.0  | 49.1   | 0.396    |
| 54.0   | 94.0   | 1.453    | 114.0  | 56.7   | 0.530    | 174.0  | 49.1   | 0.396    |
| 55.0   | 93.5   | 1.438    | 115.0  | 56.4   | 0.523    | 175.0  | 49.1   | 0.396    |
| 56.0   | 93.0   | 1.422    | 116.0  | 56.0   | 0.516    | 176.0  | 49.0   | 0.395    |
| 57.0   | 92.5   | 1.407    | 117.0  | 55.6   | 0.509    | 177.0  | 49.0   | 0.395    |
| 58.0   | 92.0   | 1.392    | 118.0  | 55.3   | 0.503    | 178.0  | 49.0   | 0.395    |
| 59.0   | 91.5   | 1.377    | 119.0  | 54.9   | 0.496    | 179.0  | 49.0   | 0.395    |

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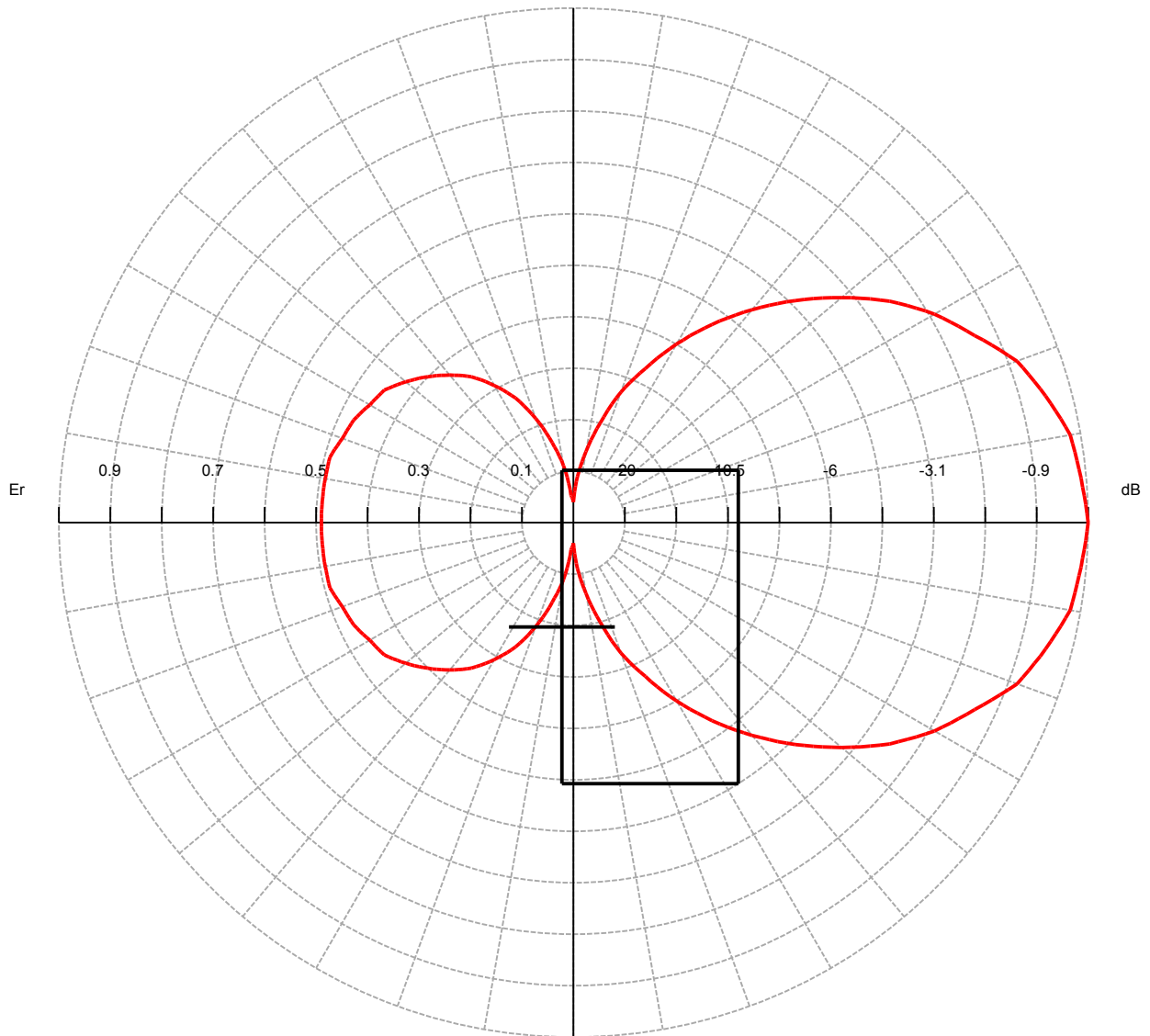
**Horizontal diagram at 0.0° depres. (Total Antenna)**

| Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) |
|--------|--------|----------|--------|--------|----------|--------|--------|----------|
| 180.0  | 49.0   | 0.395    | 240.0  | 54.6   | 0.490    | 300.0  | 91.0   | 1.362    |
| 181.0  | 49.0   | 0.395    | 241.0  | 54.9   | 0.496    | 301.0  | 91.5   | 1.377    |
| 182.0  | 49.0   | 0.395    | 242.0  | 55.3   | 0.503    | 302.0  | 92.0   | 1.392    |
| 183.0  | 49.0   | 0.395    | 243.0  | 55.6   | 0.509    | 303.0  | 92.5   | 1.407    |
| 184.0  | 49.0   | 0.395    | 244.0  | 56.0   | 0.516    | 304.0  | 93.0   | 1.422    |
| 185.0  | 49.1   | 0.396    | 245.0  | 56.4   | 0.523    | 305.0  | 93.5   | 1.438    |
| 186.0  | 49.1   | 0.396    | 246.0  | 56.7   | 0.530    | 306.0  | 94.0   | 1.453    |
| 187.0  | 49.1   | 0.396    | 247.0  | 57.1   | 0.537    | 307.0  | 94.5   | 1.468    |
| 188.0  | 49.1   | 0.396    | 248.0  | 57.5   | 0.544    | 308.0  | 95.0   | 1.484    |
| 189.0  | 49.1   | 0.396    | 249.0  | 57.9   | 0.551    | 309.0  | 95.5   | 1.500    |
| 190.0  | 49.1   | 0.397    | 250.0  | 58.3   | 0.558    | 310.0  | 96.0   | 1.515    |
| 191.0  | 49.1   | 0.397    | 251.0  | 58.9   | 0.571    | 311.0  | 96.2   | 1.522    |
| 192.0  | 49.2   | 0.398    | 252.0  | 59.5   | 0.583    | 312.0  | 96.4   | 1.528    |
| 193.0  | 49.2   | 0.398    | 253.0  | 60.2   | 0.595    | 313.0  | 96.6   | 1.534    |
| 194.0  | 49.3   | 0.399    | 254.0  | 60.8   | 0.608    | 314.0  | 96.8   | 1.541    |
| 195.0  | 49.3   | 0.400    | 255.0  | 61.5   | 0.621    | 315.0  | 97.0   | 1.547    |
| 196.0  | 49.3   | 0.400    | 256.0  | 62.1   | 0.635    | 316.0  | 97.2   | 1.554    |
| 197.0  | 49.4   | 0.401    | 257.0  | 62.8   | 0.648    | 317.0  | 97.4   | 1.560    |
| 198.0  | 49.4   | 0.402    | 258.0  | 63.4   | 0.662    | 318.0  | 97.6   | 1.566    |
| 199.0  | 49.5   | 0.402    | 259.0  | 64.1   | 0.676    | 319.0  | 97.8   | 1.573    |
| 200.0  | 49.5   | 0.403    | 260.0  | 64.8   | 0.690    | 320.0  | 98.0   | 1.579    |
| 201.0  | 49.6   | 0.404    | 261.0  | 65.5   | 0.705    | 321.0  | 98.1   | 1.582    |
| 202.0  | 49.6   | 0.404    | 262.0  | 66.2   | 0.721    | 322.0  | 98.2   | 1.586    |
| 203.0  | 49.6   | 0.405    | 263.0  | 67.0   | 0.738    | 323.0  | 98.3   | 1.589    |
| 204.0  | 49.7   | 0.406    | 264.0  | 67.7   | 0.754    | 324.0  | 98.4   | 1.592    |
| 205.0  | 49.7   | 0.407    | 265.0  | 68.4   | 0.770    | 325.0  | 98.5   | 1.595    |
| 206.0  | 49.8   | 0.408    | 266.0  | 69.2   | 0.787    | 326.0  | 98.6   | 1.599    |
| 207.0  | 49.8   | 0.408    | 267.0  | 69.9   | 0.803    | 327.0  | 98.7   | 1.602    |
| 208.0  | 49.9   | 0.409    | 268.0  | 70.6   | 0.820    | 328.0  | 98.8   | 1.605    |
| 209.0  | 49.9   | 0.410    | 269.0  | 71.3   | 0.836    | 329.0  | 98.9   | 1.608    |
| 210.0  | 50.0   | 0.411    | 270.0  | 72.0   | 0.852    | 330.0  | 99.0   | 1.612    |
| 211.0  | 50.1   | 0.412    | 271.0  | 72.7   | 0.869    | 331.0  | 99.1   | 1.615    |
| 212.0  | 50.2   | 0.414    | 272.0  | 73.4   | 0.886    | 332.0  | 99.2   | 1.618    |
| 213.0  | 50.3   | 0.415    | 273.0  | 74.1   | 0.903    | 333.0  | 99.3   | 1.621    |
| 214.0  | 50.4   | 0.417    | 274.0  | 74.8   | 0.920    | 334.0  | 99.4   | 1.625    |
| 215.0  | 50.4   | 0.419    | 275.0  | 75.5   | 0.937    | 335.0  | 99.5   | 1.628    |
| 216.0  | 50.5   | 0.420    | 276.0  | 76.2   | 0.955    | 336.0  | 99.6   | 1.631    |
| 217.0  | 50.6   | 0.422    | 277.0  | 76.9   | 0.972    | 337.0  | 99.7   | 1.635    |
| 218.0  | 50.7   | 0.423    | 278.0  | 77.6   | 0.990    | 338.0  | 99.8   | 1.638    |
| 219.0  | 50.8   | 0.425    | 279.0  | 78.3   | 1.008    | 339.0  | 99.9   | 1.641    |
| 220.0  | 51.0   | 0.427    | 280.0  | 79.0   | 1.026    | 340.0  | 100.0  | 1.644    |
| 221.0  | 51.1   | 0.429    | 281.0  | 79.7   | 1.045    | 341.0  | 100.0  | 1.644    |
| 222.0  | 51.2   | 0.431    | 282.0  | 80.4   | 1.063    | 342.0  | 100.0  | 1.644    |
| 223.0  | 51.3   | 0.432    | 283.0  | 81.1   | 1.082    | 343.0  | 100.0  | 1.644    |
| 224.0  | 51.4   | 0.434    | 284.0  | 81.8   | 1.100    | 344.0  | 100.0  | 1.644    |
| 225.0  | 51.5   | 0.436    | 285.0  | 82.5   | 1.119    | 345.0  | 100.0  | 1.644    |
| 226.0  | 51.6   | 0.438    | 286.0  | 83.2   | 1.138    | 346.0  | 100.0  | 1.644    |
| 227.0  | 51.7   | 0.440    | 287.0  | 83.9   | 1.158    | 347.0  | 100.0  | 1.644    |
| 228.0  | 51.9   | 0.442    | 288.0  | 84.6   | 1.177    | 348.0  | 100.0  | 1.644    |
| 229.0  | 52.0   | 0.445    | 289.0  | 85.3   | 1.196    | 349.0  | 100.0  | 1.644    |
| 230.0  | 52.1   | 0.447    | 290.0  | 86.0   | 1.216    | 350.0  | 100.0  | 1.644    |
| 231.0  | 52.3   | 0.451    | 291.0  | 86.5   | 1.230    | 351.0  | 100.0  | 1.644    |
| 232.0  | 52.6   | 0.455    | 292.0  | 87.0   | 1.245    | 352.0  | 100.0  | 1.644    |
| 233.0  | 52.8   | 0.459    | 293.0  | 87.5   | 1.259    | 353.0  | 100.0  | 1.644    |
| 234.0  | 53.1   | 0.463    | 294.0  | 88.0   | 1.273    | 354.0  | 100.0  | 1.644    |
| 235.0  | 53.3   | 0.467    | 295.0  | 88.5   | 1.288    | 355.0  | 100.0  | 1.644    |
| 236.0  | 53.5   | 0.472    | 296.0  | 89.0   | 1.303    | 356.0  | 100.0  | 1.644    |
| 237.0  | 53.8   | 0.476    | 297.0  | 89.5   | 1.317    | 357.0  | 100.0  | 1.644    |
| 238.0  | 54.1   | 0.480    | 298.0  | 90.0   | 1.332    | 358.0  | 100.0  | 1.644    |
| 239.0  | 54.3   | 0.485    | 299.0  | 90.5   | 1.347    | 359.0  | 100.0  | 1.644    |

TX station: Aks1  
Frequency: 98.00 MHz  
Gain solid integration : disabled

Site Name: Labelitaly

### Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 2.16

ERP T.Max(KW): 1.6444      ERP E.Max(KW): 1.6444



TX station: Aks1

Frequency: 98.00 MHz

Gain solid integration : disabled

Site Name: Labelitaly

## Vertical diagram at an azimuth of 0.0° degrees

| Dep (°) | Er (%) | ERP (KW) | Dep (°) | Er (%) | ERP (KW) | Dep (°) | Er (%) | ERP (KW) |
|---------|--------|----------|---------|--------|----------|---------|--------|----------|
| 0.0     | 100.0  | 1.644    | 60.0    | 40.0   | 0.263    | 120.0   | 30.7   | 0.155    |
| 1.0     | 99.8   | 1.638    | 61.0    | 38.6   | 0.245    | 121.0   | 31.5   | 0.163    |
| 2.0     | 99.6   | 1.631    | 62.0    | 37.2   | 0.228    | 122.0   | 32.3   | 0.172    |
| 3.0     | 99.4   | 1.625    | 63.0    | 35.8   | 0.211    | 123.0   | 33.1   | 0.180    |
| 4.0     | 99.2   | 1.618    | 64.0    | 34.4   | 0.195    | 124.0   | 33.8   | 0.188    |
| 5.0     | 99.0   | 1.612    | 65.0    | 33.0   | 0.179    | 125.0   | 34.6   | 0.197    |
| 6.0     | 98.8   | 1.605    | 66.0    | 31.8   | 0.166    | 126.0   | 35.1   | 0.203    |
| 7.0     | 98.6   | 1.599    | 67.0    | 30.6   | 0.154    | 127.0   | 35.7   | 0.210    |
| 8.0     | 98.4   | 1.592    | 68.0    | 29.4   | 0.142    | 128.0   | 36.3   | 0.217    |
| 9.0     | 98.2   | 1.586    | 69.0    | 28.2   | 0.131    | 129.0   | 36.8   | 0.223    |
| 10.0    | 98.0   | 1.579    | 70.0    | 27.0   | 0.120    | 130.0   | 37.4   | 0.230    |
| 11.0    | 97.4   | 1.560    | 71.0    | 25.6   | 0.108    | 131.0   | 37.9   | 0.237    |
| 12.0    | 96.8   | 1.541    | 72.0    | 24.2   | 0.096    | 132.0   | 38.5   | 0.244    |
| 13.0    | 96.2   | 1.522    | 73.0    | 22.8   | 0.085    | 133.0   | 39.0   | 0.250    |
| 14.0    | 95.6   | 1.503    | 74.0    | 21.4   | 0.075    | 134.0   | 39.5   | 0.257    |
| 15.0    | 95.0   | 1.484    | 75.0    | 20.0   | 0.066    | 135.0   | 40.1   | 0.264    |
| 16.0    | 94.3   | 1.463    | 76.0    | 18.8   | 0.058    | 136.0   | 40.6   | 0.271    |
| 17.0    | 93.7   | 1.443    | 77.0    | 17.6   | 0.051    | 137.0   | 41.1   | 0.277    |
| 18.0    | 93.0   | 1.423    | 78.0    | 16.4   | 0.044    | 138.0   | 41.6   | 0.284    |
| 19.0    | 92.4   | 1.403    | 79.0    | 15.2   | 0.038    | 139.0   | 42.1   | 0.291    |
| 20.0    | 91.7   | 1.383    | 80.0    | 14.0   | 0.032    | 140.0   | 42.6   | 0.298    |
| 21.0    | 90.6   | 1.349    | 81.0    | 13.0   | 0.028    | 141.0   | 43.0   | 0.304    |
| 22.0    | 89.4   | 1.315    | 82.0    | 12.0   | 0.024    | 142.0   | 43.5   | 0.311    |
| 23.0    | 88.3   | 1.282    | 83.0    | 11.0   | 0.020    | 143.0   | 44.0   | 0.318    |
| 24.0    | 87.1   | 1.249    | 84.0    | 10.0   | 0.016    | 144.0   | 44.4   | 0.324    |
| 25.0    | 86.0   | 1.216    | 85.0    | 9.0    | 0.013    | 145.0   | 44.9   | 0.331    |
| 26.0    | 85.0   | 1.188    | 86.0    | 8.0    | 0.011    | 146.0   | 45.0   | 0.334    |
| 27.0    | 84.0   | 1.160    | 87.0    | 7.0    | 0.008    | 147.0   | 45.2   | 0.336    |
| 28.0    | 83.0   | 1.133    | 88.0    | 6.0    | 0.006    | 148.0   | 45.4   | 0.339    |
| 29.0    | 82.0   | 1.106    | 89.0    | 5.0    | 0.004    | 149.0   | 45.5   | 0.341    |
| 30.0    | 81.0   | 1.079    | 90.0    | 4.0    | 0.003    | 150.0   | 45.7   | 0.343    |
| 31.0    | 79.8   | 1.047    | 91.0    | 4.3    | 0.003    | 151.0   | 46.0   | 0.348    |
| 32.0    | 78.6   | 1.016    | 92.0    | 4.5    | 0.003    | 152.0   | 46.3   | 0.352    |
| 33.0    | 77.4   | 0.985    | 93.0    | 4.8    | 0.004    | 153.0   | 46.6   | 0.356    |
| 34.0    | 76.2   | 0.955    | 94.0    | 5.0    | 0.004    | 154.0   | 46.8   | 0.361    |
| 35.0    | 75.0   | 0.925    | 95.0    | 5.3    | 0.005    | 155.0   | 47.1   | 0.365    |
| 36.0    | 73.6   | 0.891    | 96.0    | 6.5    | 0.007    | 156.0   | 47.2   | 0.367    |
| 37.0    | 72.2   | 0.857    | 97.0    | 7.7    | 0.010    | 157.0   | 47.4   | 0.369    |
| 38.0    | 70.8   | 0.824    | 98.0    | 8.9    | 0.013    | 158.0   | 47.5   | 0.371    |
| 39.0    | 69.4   | 0.792    | 99.0    | 10.1   | 0.017    | 159.0   | 47.7   | 0.374    |
| 40.0    | 68.0   | 0.760    | 100.0   | 11.3   | 0.021    | 160.0   | 47.8   | 0.376    |
| 41.0    | 66.6   | 0.729    | 101.0   | 12.2   | 0.025    | 161.0   | 48.0   | 0.380    |
| 42.0    | 65.2   | 0.699    | 102.0   | 13.2   | 0.029    | 162.0   | 48.3   | 0.383    |
| 43.0    | 63.8   | 0.669    | 103.0   | 14.2   | 0.033    | 163.0   | 48.5   | 0.387    |
| 44.0    | 62.4   | 0.640    | 104.0   | 15.1   | 0.038    | 164.0   | 48.8   | 0.391    |
| 45.0    | 61.0   | 0.612    | 105.0   | 16.1   | 0.042    | 165.0   | 49.0   | 0.395    |
| 46.0    | 59.6   | 0.584    | 106.0   | 17.2   | 0.048    | 166.0   | 49.0   | 0.395    |
| 47.0    | 58.2   | 0.557    | 107.0   | 18.3   | 0.055    | 167.0   | 49.0   | 0.395    |
| 48.0    | 56.8   | 0.531    | 108.0   | 19.4   | 0.062    | 168.0   | 49.0   | 0.395    |
| 49.0    | 55.4   | 0.505    | 109.0   | 20.4   | 0.069    | 169.0   | 49.0   | 0.395    |
| 50.0    | 54.0   | 0.479    | 110.0   | 21.5   | 0.076    | 170.0   | 49.0   | 0.395    |
| 51.0    | 52.6   | 0.455    | 111.0   | 22.6   | 0.084    | 171.0   | 49.0   | 0.395    |
| 52.0    | 51.2   | 0.431    | 112.0   | 23.6   | 0.092    | 172.0   | 49.0   | 0.395    |
| 53.0    | 49.8   | 0.408    | 113.0   | 24.6   | 0.100    | 173.0   | 49.0   | 0.395    |
| 54.0    | 48.4   | 0.385    | 114.0   | 25.7   | 0.108    | 174.0   | 49.0   | 0.395    |
| 55.0    | 47.0   | 0.363    | 115.0   | 26.7   | 0.117    | 175.0   | 49.0   | 0.395    |
| 56.0    | 45.6   | 0.342    | 116.0   | 27.5   | 0.124    | 176.0   | 49.0   | 0.395    |
| 57.0    | 44.2   | 0.321    | 117.0   | 28.3   | 0.132    | 177.0   | 49.0   | 0.395    |
| 58.0    | 42.8   | 0.301    | 118.0   | 29.1   | 0.140    | 178.0   | 49.0   | 0.395    |
| 59.0    | 41.4   | 0.282    | 119.0   | 29.9   | 0.147    | 179.0   | 49.0   | 0.395    |

TX station: Aks1  
Frequency: 98.00 MHz  
Gain solid integration : disabled

Site Name: Labelitaly

Vertical diagram at an azimuth of 0.0° degrees

| Dep (°) | Er (%) | ERP (KW) | Dep (°) | Er (%) | ERP (KW) | Dep (°) | Er (%) | ERP (KW) |
|---------|--------|----------|---------|--------|----------|---------|--------|----------|
| 180.0   | 49.0   | 0.395    | 240.0   | 30.7   | 0.155    | 300.0   | 40.0   | 0.263    |
| 181.0   | 49.0   | 0.395    | 241.0   | 29.9   | 0.147    | 301.0   | 41.4   | 0.282    |
| 182.0   | 49.0   | 0.395    | 242.0   | 29.1   | 0.140    | 302.0   | 42.8   | 0.301    |
| 183.0   | 49.0   | 0.395    | 243.0   | 28.3   | 0.132    | 303.0   | 44.2   | 0.321    |
| 184.0   | 49.0   | 0.395    | 244.0   | 27.5   | 0.124    | 304.0   | 45.6   | 0.342    |
| 185.0   | 49.0   | 0.395    | 245.0   | 26.7   | 0.117    | 305.0   | 47.0   | 0.363    |
| 186.0   | 49.0   | 0.395    | 246.0   | 25.7   | 0.108    | 306.0   | 48.4   | 0.385    |
| 187.0   | 49.0   | 0.395    | 247.0   | 24.6   | 0.100    | 307.0   | 49.8   | 0.408    |
| 188.0   | 49.0   | 0.395    | 248.0   | 23.6   | 0.092    | 308.0   | 51.2   | 0.431    |
| 189.0   | 49.0   | 0.395    | 249.0   | 22.6   | 0.084    | 309.0   | 52.6   | 0.455    |
| 190.0   | 49.0   | 0.395    | 250.0   | 21.5   | 0.076    | 310.0   | 54.0   | 0.479    |
| 191.0   | 49.0   | 0.395    | 251.0   | 20.4   | 0.069    | 311.0   | 55.4   | 0.505    |
| 192.0   | 49.0   | 0.395    | 252.0   | 19.4   | 0.062    | 312.0   | 56.8   | 0.531    |
| 193.0   | 49.0   | 0.395    | 253.0   | 18.3   | 0.055    | 313.0   | 58.2   | 0.557    |
| 194.0   | 49.0   | 0.395    | 254.0   | 17.2   | 0.048    | 314.0   | 59.6   | 0.584    |
| 195.0   | 49.0   | 0.395    | 255.0   | 16.1   | 0.042    | 315.0   | 61.0   | 0.612    |
| 196.0   | 48.8   | 0.391    | 256.0   | 15.1   | 0.038    | 316.0   | 62.4   | 0.640    |
| 197.0   | 48.5   | 0.387    | 257.0   | 14.2   | 0.033    | 317.0   | 63.8   | 0.669    |
| 198.0   | 48.3   | 0.383    | 258.0   | 13.2   | 0.029    | 318.0   | 65.2   | 0.699    |
| 199.0   | 48.0   | 0.380    | 259.0   | 12.2   | 0.025    | 319.0   | 66.6   | 0.729    |
| 200.0   | 47.8   | 0.376    | 260.0   | 11.3   | 0.021    | 320.0   | 68.0   | 0.760    |
| 201.0   | 47.7   | 0.374    | 261.0   | 10.1   | 0.017    | 321.0   | 69.4   | 0.792    |
| 202.0   | 47.5   | 0.371    | 262.0   | 8.9    | 0.013    | 322.0   | 70.8   | 0.824    |
| 203.0   | 47.4   | 0.369    | 263.0   | 7.7    | 0.010    | 323.0   | 72.2   | 0.857    |
| 204.0   | 47.2   | 0.367    | 264.0   | 6.5    | 0.007    | 324.0   | 73.6   | 0.891    |
| 205.0   | 47.1   | 0.365    | 265.0   | 5.3    | 0.005    | 325.0   | 75.0   | 0.925    |
| 206.0   | 46.8   | 0.361    | 266.0   | 5.0    | 0.004    | 326.0   | 76.2   | 0.955    |
| 207.0   | 46.6   | 0.356    | 267.0   | 4.8    | 0.004    | 327.0   | 77.4   | 0.985    |
| 208.0   | 46.3   | 0.352    | 268.0   | 4.5    | 0.003    | 328.0   | 78.6   | 1.016    |
| 209.0   | 46.0   | 0.348    | 269.0   | 4.3    | 0.003    | 329.0   | 79.8   | 1.047    |
| 210.0   | 45.7   | 0.343    | 270.0   | 4.0    | 0.003    | 330.0   | 81.0   | 1.079    |
| 211.0   | 45.5   | 0.341    | 271.0   | 5.0    | 0.004    | 331.0   | 82.0   | 1.106    |
| 212.0   | 45.4   | 0.339    | 272.0   | 6.0    | 0.006    | 332.0   | 83.0   | 1.133    |
| 213.0   | 45.2   | 0.336    | 273.0   | 7.0    | 0.008    | 333.0   | 84.0   | 1.160    |
| 214.0   | 45.0   | 0.334    | 274.0   | 8.0    | 0.011    | 334.0   | 85.0   | 1.188    |
| 215.0   | 44.9   | 0.331    | 275.0   | 9.0    | 0.013    | 335.0   | 86.0   | 1.216    |
| 216.0   | 44.4   | 0.324    | 276.0   | 10.0   | 0.016    | 336.0   | 87.1   | 1.249    |
| 217.0   | 44.0   | 0.318    | 277.0   | 11.0   | 0.020    | 337.0   | 88.3   | 1.282    |
| 218.0   | 43.5   | 0.311    | 278.0   | 12.0   | 0.024    | 338.0   | 89.4   | 1.315    |
| 219.0   | 43.0   | 0.304    | 279.0   | 13.0   | 0.028    | 339.0   | 90.6   | 1.349    |
| 220.0   | 42.6   | 0.298    | 280.0   | 14.0   | 0.032    | 340.0   | 91.7   | 1.383    |
| 221.0   | 42.1   | 0.291    | 281.0   | 15.2   | 0.038    | 341.0   | 92.4   | 1.403    |
| 222.0   | 41.6   | 0.284    | 282.0   | 16.4   | 0.044    | 342.0   | 93.0   | 1.423    |
| 223.0   | 41.1   | 0.277    | 283.0   | 17.6   | 0.051    | 343.0   | 93.7   | 1.443    |
| 224.0   | 40.6   | 0.271    | 284.0   | 18.8   | 0.058    | 344.0   | 94.3   | 1.463    |
| 225.0   | 40.1   | 0.264    | 285.0   | 20.0   | 0.066    | 345.0   | 95.0   | 1.484    |
| 226.0   | 39.5   | 0.257    | 286.0   | 21.4   | 0.075    | 346.0   | 95.6   | 1.503    |
| 227.0   | 39.0   | 0.250    | 287.0   | 22.8   | 0.085    | 347.0   | 96.2   | 1.522    |
| 228.0   | 38.5   | 0.244    | 288.0   | 24.2   | 0.096    | 348.0   | 96.8   | 1.541    |
| 229.0   | 37.9   | 0.237    | 289.0   | 25.6   | 0.108    | 349.0   | 97.4   | 1.560    |
| 230.0   | 37.4   | 0.230    | 290.0   | 27.0   | 0.120    | 350.0   | 98.0   | 1.579    |
| 231.0   | 36.8   | 0.223    | 291.0   | 28.2   | 0.131    | 351.0   | 98.2   | 1.586    |
| 232.0   | 36.3   | 0.217    | 292.0   | 29.4   | 0.142    | 352.0   | 98.4   | 1.592    |
| 233.0   | 35.7   | 0.210    | 293.0   | 30.6   | 0.154    | 353.0   | 98.6   | 1.599    |
| 234.0   | 35.1   | 0.203    | 294.0   | 31.8   | 0.166    | 354.0   | 98.8   | 1.605    |
| 235.0   | 34.6   | 0.197    | 295.0   | 33.0   | 0.179    | 355.0   | 99.0   | 1.612    |
| 236.0   | 33.8   | 0.188    | 296.0   | 34.4   | 0.195    | 356.0   | 99.2   | 1.618    |
| 237.0   | 33.1   | 0.180    | 297.0   | 35.8   | 0.211    | 357.0   | 99.4   | 1.625    |
| 238.0   | 32.3   | 0.172    | 298.0   | 37.2   | 0.228    | 358.0   | 99.6   | 1.631    |
| 239.0   | 31.5   | 0.163    | 299.0   | 38.6   | 0.245    | 359.0   | 99.8   | 1.638    |