

TX station: Ekr2
Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

| | |
|---|--------------------------------------|
| TX station | Ekr2 |
| 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) | 128.000 |
| Antenna system central frequency (MHz) | 128.000 |
| Antenna base diagrams type 1 | LABEL ITALY-EKR_2 AERONAUTICAL PANEL |
| 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 | EKR_2 AERONAUTICAL |
| Band start(MHz) | 118 |
| Band stop(MHz) | 144 |
| diagrams Frequency(MHz) | 125 |
| Polariz (H,V,C,X) | V |
| Vertical dist (cm) | 185 |
| Height (cm) | 135 |
| Width (cm) | 190 |
| Thickness (cm) | 62 |
| Weight (Kg) | 35 |
| Maximum power (KW) | 2 |
| Gain (dBd) | 8 |
| North E.C. (cm) | 0 |
| East E.C. (cm) | 0 |
| Return loss (dB) | 20 |
| R.C.Phase (°) | 0 |

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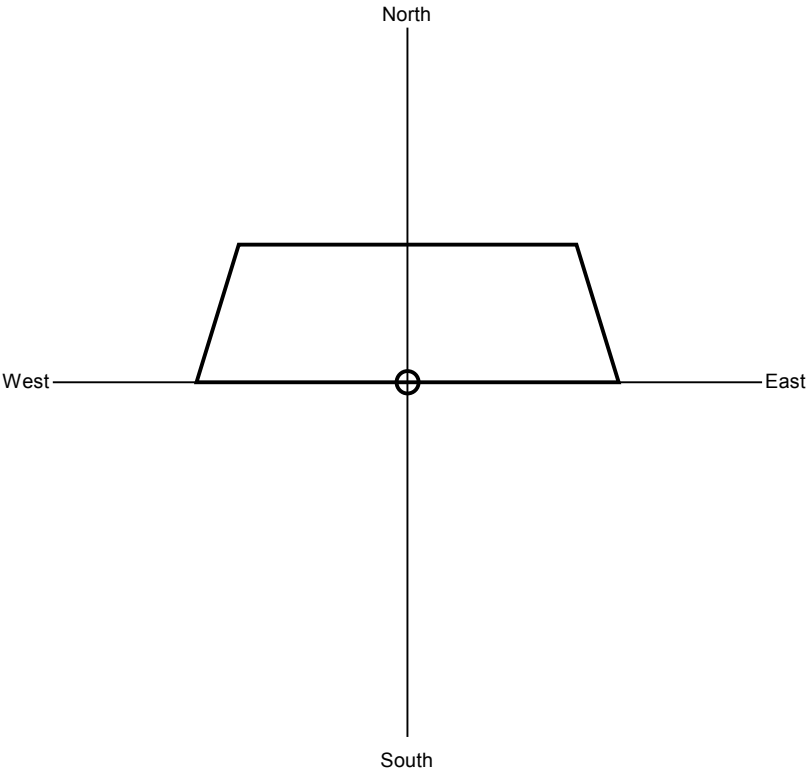
Geometr. and electrical data of Antenna System

| | <i>Power</i> (%) | <i>Tilt</i> (°) | <i>Az.</i> (°/N) | <i>Phase</i> (°) | | <i>V dist.</i> (m) | <i>Scr-d</i> (cm) | <i>Scr-Az</i> (°/N) | <i>Rot.</i> (1÷4) | <i>Type</i> (1÷2) | <i>L cables</i> (cm) | <i>Car. phase</i> (°) |
|---|---------------------|--------------------|---------------------|---------------------|------|-----------------------|----------------------|------------------------|----------------------|----------------------|-------------------------|--------------------------|
| 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) | 8.00 |
| G. Distribution losses (dB) | 0.00 |
| H. Nominal max gain [F - G] (dBd) | 8.00 |
| I. Compensation losses (dB) | 0.00 |
| J. Effec. max gain [H - I] (dBd) | 8.00 |
| K. Effec. max gain (times) | 6.31 |
| L. Effec. max power [E * K] (KW) | 6.3096 |
| M. Max power depr. angle (°) | 0.0 |
| N. Max power az. angle (°) | 0 |

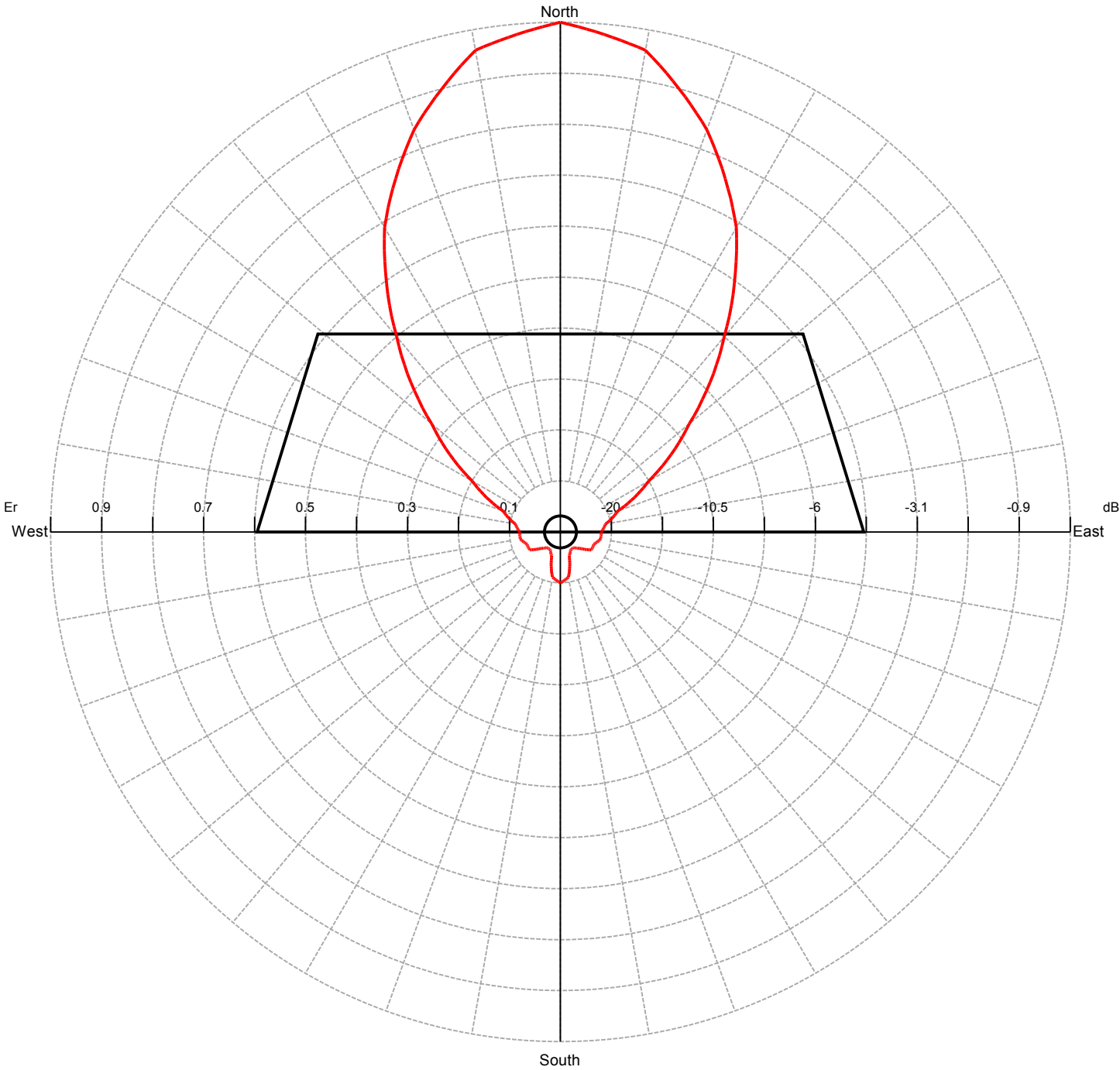
Diagram in dBK calculated at horizon

| Az. (°/N) | dBK | Az. (°/N) | dBK | Az. (°/N) | dBK | Az. (°/N) | dBK |
|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| 0 | 8.0 | 90 | -12.0 | 180 | -12.0 | 270 | -12.0 |
| 10 | 7.6 | 100 | -12.0 | 190 | -12.0 | 280 | -12.0 |
| 20 | 6.5 | 110 | -12.0 | 200 | -12.0 | 290 | -10.4 |
| 30 | 4.8 | 120 | -12.0 | 210 | -12.0 | 300 | -6.0 |
| 40 | 2.0 | 130 | -12.0 | 220 | -12.0 | 310 | -1.6 |
| 50 | -1.6 | 140 | -12.0 | 230 | -12.0 | 320 | 2.0 |
| 60 | -6.0 | 150 | -12.0 | 240 | -12.0 | 330 | 4.8 |
| 70 | -10.4 | 160 | -12.0 | 250 | -12.0 | 340 | 6.5 |
| 80 | -12.0 | 170 | -12.0 | 260 | -12.0 | 350 | 7.6 |

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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 8 ERP T.Max(KW): 6.3096 ERP E.Max(KW): 6.3096

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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 | 6.310 | 60.0 | 20.0 | 0.252 | 120.0 | 7.0 | 0.031 |
| 1.0 | 99.6 | 6.259 | 61.0 | 19.2 | 0.233 | 121.0 | 6.8 | 0.029 |
| 2.0 | 99.2 | 6.209 | 62.0 | 18.4 | 0.214 | 122.0 | 6.6 | 0.027 |
| 3.0 | 98.8 | 6.159 | 63.0 | 17.6 | 0.195 | 123.0 | 6.4 | 0.026 |
| 4.0 | 98.4 | 6.109 | 64.0 | 16.8 | 0.178 | 124.0 | 6.2 | 0.024 |
| 5.0 | 98.0 | 6.060 | 65.0 | 16.0 | 0.162 | 125.0 | 6.0 | 0.023 |
| 6.0 | 97.6 | 6.010 | 66.0 | 15.2 | 0.146 | 126.0 | 5.8 | 0.021 |
| 7.0 | 97.2 | 5.961 | 67.0 | 14.4 | 0.131 | 127.0 | 5.6 | 0.020 |
| 8.0 | 96.8 | 5.912 | 68.0 | 13.6 | 0.117 | 128.0 | 5.4 | 0.018 |
| 9.0 | 96.4 | 5.863 | 69.0 | 12.8 | 0.103 | 129.0 | 5.2 | 0.017 |
| 10.0 | 96.0 | 5.815 | 70.0 | 12.0 | 0.091 | 130.0 | 5.0 | 0.016 |
| 11.0 | 94.8 | 5.670 | 71.0 | 11.7 | 0.086 | 131.0 | 4.9 | 0.015 |
| 12.0 | 93.6 | 5.528 | 72.0 | 11.4 | 0.082 | 132.0 | 4.8 | 0.015 |
| 13.0 | 92.4 | 5.387 | 73.0 | 11.1 | 0.078 | 133.0 | 4.7 | 0.014 |
| 14.0 | 91.2 | 5.248 | 74.0 | 10.8 | 0.074 | 134.0 | 4.6 | 0.013 |
| 15.0 | 90.0 | 5.111 | 75.0 | 10.5 | 0.070 | 135.0 | 4.5 | 0.013 |
| 16.0 | 88.8 | 4.975 | 76.0 | 10.2 | 0.066 | 136.0 | 4.4 | 0.012 |
| 17.0 | 87.6 | 4.842 | 77.0 | 9.9 | 0.062 | 137.0 | 4.3 | 0.012 |
| 18.0 | 86.4 | 4.710 | 78.0 | 9.6 | 0.058 | 138.0 | 4.2 | 0.011 |
| 19.0 | 85.2 | 4.580 | 79.0 | 9.3 | 0.055 | 139.0 | 4.1 | 0.011 |
| 20.0 | 84.0 | 4.452 | 80.0 | 9.0 | 0.051 | 140.0 | 4.0 | 0.010 |
| 21.0 | 82.5 | 4.294 | 81.0 | 8.9 | 0.050 | 141.0 | 4.0 | 0.010 |
| 22.0 | 81.0 | 4.140 | 82.0 | 8.8 | 0.049 | 142.0 | 4.0 | 0.010 |
| 23.0 | 79.5 | 3.988 | 83.0 | 8.7 | 0.048 | 143.0 | 4.0 | 0.010 |
| 24.0 | 78.0 | 3.839 | 84.0 | 8.6 | 0.047 | 144.0 | 4.0 | 0.010 |
| 25.0 | 76.5 | 3.693 | 85.0 | 8.5 | 0.046 | 145.0 | 4.0 | 0.010 |
| 26.0 | 75.0 | 3.549 | 86.0 | 8.4 | 0.045 | 146.0 | 4.0 | 0.010 |
| 27.0 | 73.5 | 3.409 | 87.0 | 8.3 | 0.043 | 147.0 | 4.0 | 0.010 |
| 28.0 | 72.0 | 3.271 | 88.0 | 8.2 | 0.042 | 148.0 | 4.0 | 0.010 |
| 29.0 | 70.5 | 3.136 | 89.0 | 8.1 | 0.041 | 149.0 | 4.0 | 0.010 |
| 30.0 | 69.0 | 3.004 | 90.0 | 8.0 | 0.040 | 150.0 | 4.0 | 0.010 |
| 31.0 | 67.1 | 2.841 | 91.0 | 8.0 | 0.040 | 151.0 | 4.1 | 0.011 |
| 32.0 | 65.2 | 2.682 | 92.0 | 8.0 | 0.040 | 152.0 | 4.2 | 0.011 |
| 33.0 | 63.3 | 2.528 | 93.0 | 8.0 | 0.040 | 153.0 | 4.3 | 0.012 |
| 34.0 | 61.4 | 2.379 | 94.0 | 8.0 | 0.040 | 154.0 | 4.4 | 0.012 |
| 35.0 | 59.5 | 2.234 | 95.0 | 8.0 | 0.040 | 155.0 | 4.5 | 0.013 |
| 36.0 | 57.6 | 2.093 | 96.0 | 8.0 | 0.040 | 156.0 | 4.6 | 0.013 |
| 37.0 | 55.7 | 1.958 | 97.0 | 8.0 | 0.040 | 157.0 | 4.7 | 0.014 |
| 38.0 | 53.8 | 1.826 | 98.0 | 8.0 | 0.040 | 158.0 | 4.8 | 0.015 |
| 39.0 | 51.9 | 1.700 | 99.0 | 8.0 | 0.040 | 159.0 | 4.9 | 0.015 |
| 40.0 | 50.0 | 1.577 | 100.0 | 8.0 | 0.040 | 160.0 | 5.0 | 0.016 |
| 41.0 | 48.3 | 1.472 | 101.0 | 7.9 | 0.039 | 161.0 | 5.4 | 0.018 |
| 42.0 | 46.6 | 1.370 | 102.0 | 7.8 | 0.038 | 162.0 | 5.8 | 0.021 |
| 43.0 | 44.9 | 1.272 | 103.0 | 7.7 | 0.037 | 163.0 | 6.2 | 0.024 |
| 44.0 | 43.2 | 1.178 | 104.0 | 7.6 | 0.036 | 164.0 | 6.6 | 0.027 |
| 45.0 | 41.5 | 1.087 | 105.0 | 7.5 | 0.035 | 165.0 | 7.0 | 0.031 |
| 46.0 | 39.8 | 0.999 | 106.0 | 7.4 | 0.035 | 166.0 | 7.4 | 0.035 |
| 47.0 | 38.1 | 0.916 | 107.0 | 7.3 | 0.034 | 167.0 | 7.8 | 0.038 |
| 48.0 | 36.4 | 0.836 | 108.0 | 7.2 | 0.033 | 168.0 | 8.2 | 0.042 |
| 49.0 | 34.7 | 0.760 | 109.0 | 7.1 | 0.032 | 169.0 | 8.6 | 0.047 |
| 50.0 | 33.0 | 0.687 | 110.0 | 7.0 | 0.031 | 170.0 | 9.0 | 0.051 |
| 51.0 | 31.7 | 0.634 | 111.0 | 7.0 | 0.031 | 171.0 | 9.1 | 0.052 |
| 52.0 | 30.4 | 0.583 | 112.0 | 7.0 | 0.031 | 172.0 | 9.2 | 0.053 |
| 53.0 | 29.1 | 0.534 | 113.0 | 7.0 | 0.031 | 173.0 | 9.3 | 0.055 |
| 54.0 | 27.8 | 0.488 | 114.0 | 7.0 | 0.031 | 174.0 | 9.4 | 0.056 |
| 55.0 | 26.5 | 0.443 | 115.0 | 7.0 | 0.031 | 175.0 | 9.5 | 0.057 |
| 56.0 | 25.2 | 0.401 | 116.0 | 7.0 | 0.031 | 176.0 | 9.6 | 0.058 |
| 57.0 | 23.9 | 0.360 | 117.0 | 7.0 | 0.031 | 177.0 | 9.7 | 0.059 |
| 58.0 | 22.6 | 0.322 | 118.0 | 7.0 | 0.031 | 178.0 | 9.8 | 0.061 |
| 59.0 | 21.3 | 0.286 | 119.0 | 7.0 | 0.031 | 179.0 | 9.9 | 0.062 |

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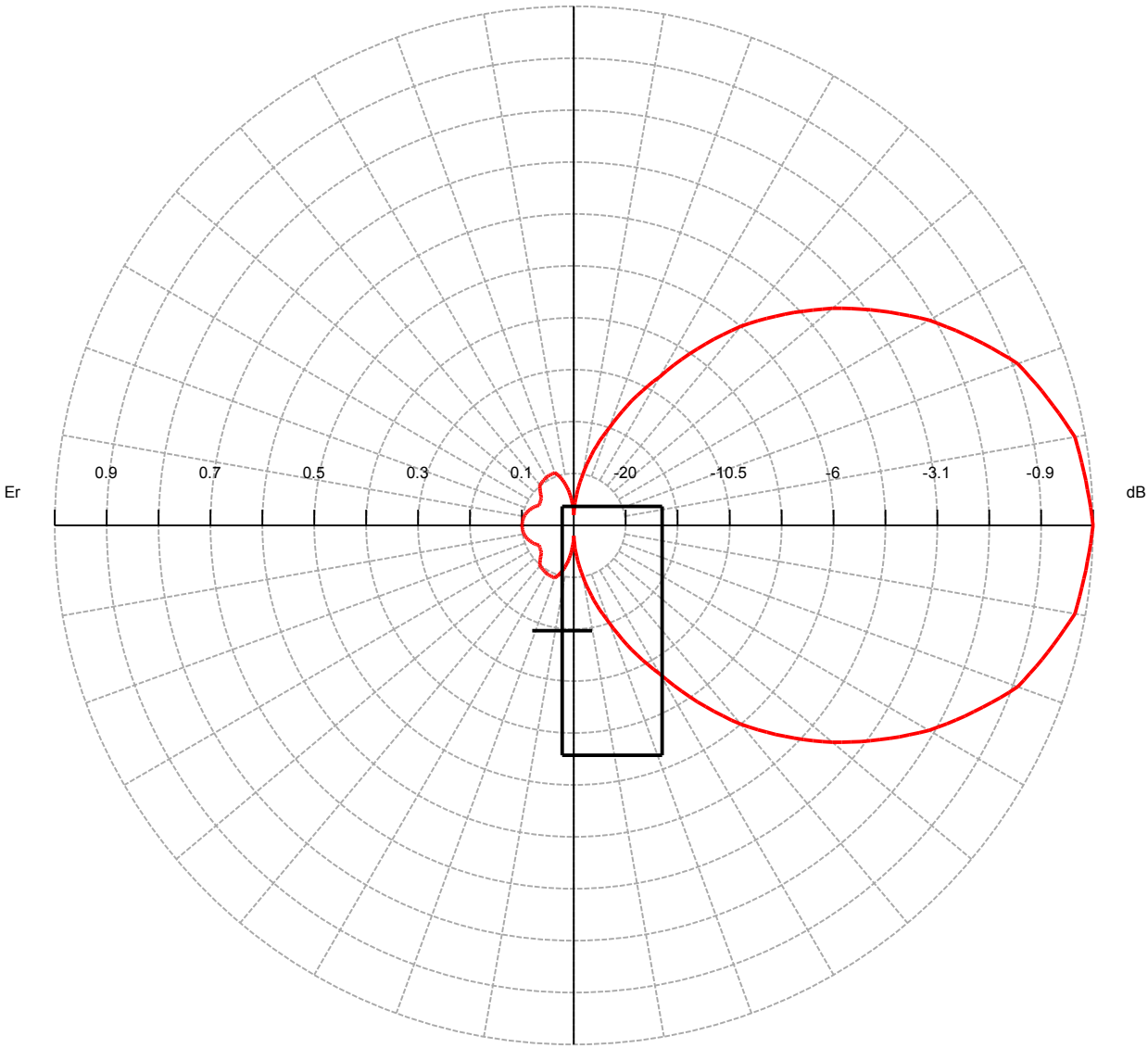
Horizontal diagram at 0.0° depres. (Total Antenna)

| Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) | Az (°) | Er (%) | ERP (KW) |
|--------|--------|----------|--------|--------|----------|--------|--------|----------|
| 180.0 | 10.0 | 0.063 | 240.0 | 7.0 | 0.031 | 300.0 | 20.0 | 0.252 |
| 181.0 | 9.9 | 0.062 | 241.0 | 7.0 | 0.031 | 301.0 | 21.3 | 0.286 |
| 182.0 | 9.8 | 0.061 | 242.0 | 7.0 | 0.031 | 302.0 | 22.6 | 0.322 |
| 183.0 | 9.7 | 0.059 | 243.0 | 7.0 | 0.031 | 303.0 | 23.9 | 0.360 |
| 184.0 | 9.6 | 0.058 | 244.0 | 7.0 | 0.031 | 304.0 | 25.2 | 0.401 |
| 185.0 | 9.5 | 0.057 | 245.0 | 7.0 | 0.031 | 305.0 | 26.5 | 0.443 |
| 186.0 | 9.4 | 0.056 | 246.0 | 7.0 | 0.031 | 306.0 | 27.8 | 0.488 |
| 187.0 | 9.3 | 0.055 | 247.0 | 7.0 | 0.031 | 307.0 | 29.1 | 0.534 |
| 188.0 | 9.2 | 0.053 | 248.0 | 7.0 | 0.031 | 308.0 | 30.4 | 0.583 |
| 189.0 | 9.1 | 0.052 | 249.0 | 7.0 | 0.031 | 309.0 | 31.7 | 0.634 |
| 190.0 | 9.0 | 0.051 | 250.0 | 7.0 | 0.031 | 310.0 | 33.0 | 0.687 |
| 191.0 | 8.6 | 0.047 | 251.0 | 7.1 | 0.032 | 311.0 | 34.7 | 0.760 |
| 192.0 | 8.2 | 0.042 | 252.0 | 7.2 | 0.033 | 312.0 | 36.4 | 0.836 |
| 193.0 | 7.8 | 0.038 | 253.0 | 7.3 | 0.034 | 313.0 | 38.1 | 0.916 |
| 194.0 | 7.4 | 0.035 | 254.0 | 7.4 | 0.035 | 314.0 | 39.8 | 0.999 |
| 195.0 | 7.0 | 0.031 | 255.0 | 7.5 | 0.035 | 315.0 | 41.5 | 1.087 |
| 196.0 | 6.6 | 0.027 | 256.0 | 7.6 | 0.036 | 316.0 | 43.2 | 1.178 |
| 197.0 | 6.2 | 0.024 | 257.0 | 7.7 | 0.037 | 317.0 | 44.9 | 1.272 |
| 198.0 | 5.8 | 0.021 | 258.0 | 7.8 | 0.038 | 318.0 | 46.6 | 1.370 |
| 199.0 | 5.4 | 0.018 | 259.0 | 7.9 | 0.039 | 319.0 | 48.3 | 1.472 |
| 200.0 | 5.0 | 0.016 | 260.0 | 8.0 | 0.040 | 320.0 | 50.0 | 1.577 |
| 201.0 | 4.9 | 0.015 | 261.0 | 8.0 | 0.040 | 321.0 | 51.9 | 1.700 |
| 202.0 | 4.8 | 0.015 | 262.0 | 8.0 | 0.040 | 322.0 | 53.8 | 1.826 |
| 203.0 | 4.7 | 0.014 | 263.0 | 8.0 | 0.040 | 323.0 | 55.7 | 1.958 |
| 204.0 | 4.6 | 0.013 | 264.0 | 8.0 | 0.040 | 324.0 | 57.6 | 2.093 |
| 205.0 | 4.5 | 0.013 | 265.0 | 8.0 | 0.040 | 325.0 | 59.5 | 2.234 |
| 206.0 | 4.4 | 0.012 | 266.0 | 8.0 | 0.040 | 326.0 | 61.4 | 2.379 |
| 207.0 | 4.3 | 0.012 | 267.0 | 8.0 | 0.040 | 327.0 | 63.3 | 2.528 |
| 208.0 | 4.2 | 0.011 | 268.0 | 8.0 | 0.040 | 328.0 | 65.2 | 2.682 |
| 209.0 | 4.1 | 0.011 | 269.0 | 8.0 | 0.040 | 329.0 | 67.1 | 2.841 |
| 210.0 | 4.0 | 0.010 | 270.0 | 8.0 | 0.040 | 330.0 | 69.0 | 3.004 |
| 211.0 | 4.0 | 0.010 | 271.0 | 8.1 | 0.041 | 331.0 | 70.5 | 3.136 |
| 212.0 | 4.0 | 0.010 | 272.0 | 8.2 | 0.042 | 332.0 | 72.0 | 3.271 |
| 213.0 | 4.0 | 0.010 | 273.0 | 8.3 | 0.043 | 333.0 | 73.5 | 3.409 |
| 214.0 | 4.0 | 0.010 | 274.0 | 8.4 | 0.045 | 334.0 | 75.0 | 3.549 |
| 215.0 | 4.0 | 0.010 | 275.0 | 8.5 | 0.046 | 335.0 | 76.5 | 3.693 |
| 216.0 | 4.0 | 0.010 | 276.0 | 8.6 | 0.047 | 336.0 | 78.0 | 3.839 |
| 217.0 | 4.0 | 0.010 | 277.0 | 8.7 | 0.048 | 337.0 | 79.5 | 3.988 |
| 218.0 | 4.0 | 0.010 | 278.0 | 8.8 | 0.049 | 338.0 | 81.0 | 4.140 |
| 219.0 | 4.0 | 0.010 | 279.0 | 8.9 | 0.050 | 339.0 | 82.5 | 4.294 |
| 220.0 | 4.0 | 0.010 | 280.0 | 9.0 | 0.051 | 340.0 | 84.0 | 4.452 |
| 221.0 | 4.1 | 0.011 | 281.0 | 9.3 | 0.055 | 341.0 | 85.2 | 4.580 |
| 222.0 | 4.2 | 0.011 | 282.0 | 9.6 | 0.058 | 342.0 | 86.4 | 4.710 |
| 223.0 | 4.3 | 0.012 | 283.0 | 9.9 | 0.062 | 343.0 | 87.6 | 4.842 |
| 224.0 | 4.4 | 0.012 | 284.0 | 10.2 | 0.066 | 344.0 | 88.8 | 4.975 |
| 225.0 | 4.5 | 0.013 | 285.0 | 10.5 | 0.070 | 345.0 | 90.0 | 5.111 |
| 226.0 | 4.6 | 0.013 | 286.0 | 10.8 | 0.074 | 346.0 | 91.2 | 5.248 |
| 227.0 | 4.7 | 0.014 | 287.0 | 11.1 | 0.078 | 347.0 | 92.4 | 5.387 |
| 228.0 | 4.8 | 0.015 | 288.0 | 11.4 | 0.082 | 348.0 | 93.6 | 5.528 |
| 229.0 | 4.9 | 0.015 | 289.0 | 11.7 | 0.086 | 349.0 | 94.8 | 5.670 |
| 230.0 | 5.0 | 0.016 | 290.0 | 12.0 | 0.091 | 350.0 | 96.0 | 5.815 |
| 231.0 | 5.2 | 0.017 | 291.0 | 12.8 | 0.103 | 351.0 | 96.4 | 5.863 |
| 232.0 | 5.4 | 0.018 | 292.0 | 13.6 | 0.117 | 352.0 | 96.8 | 5.912 |
| 233.0 | 5.6 | 0.020 | 293.0 | 14.4 | 0.131 | 353.0 | 97.2 | 5.961 |
| 234.0 | 5.8 | 0.021 | 294.0 | 15.2 | 0.146 | 354.0 | 97.6 | 6.010 |
| 235.0 | 6.0 | 0.023 | 295.0 | 16.0 | 0.162 | 355.0 | 98.0 | 6.060 |
| 236.0 | 6.2 | 0.024 | 296.0 | 16.8 | 0.178 | 356.0 | 98.4 | 6.109 |
| 237.0 | 6.4 | 0.026 | 297.0 | 17.6 | 0.195 | 357.0 | 98.8 | 6.159 |
| 238.0 | 6.6 | 0.027 | 298.0 | 18.4 | 0.214 | 358.0 | 99.2 | 6.209 |
| 239.0 | 6.8 | 0.029 | 299.0 | 19.2 | 0.233 | 359.0 | 99.6 | 6.259 |

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 8 ERP T.Max(KW): 6.3096 ERP E.Max(KW): 6.3096

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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 | 6.310 | 60.0 | 33.0 | 0.687 | 120.0 | 10.7 | 0.072 |
| 1.0 | 99.8 | 6.284 | 61.0 | 31.7 | 0.634 | 121.0 | 10.6 | 0.071 |
| 2.0 | 99.6 | 6.259 | 62.0 | 30.4 | 0.583 | 122.0 | 10.5 | 0.070 |
| 3.0 | 99.4 | 6.234 | 63.0 | 29.1 | 0.534 | 123.0 | 10.5 | 0.069 |
| 4.0 | 99.2 | 6.209 | 64.0 | 27.8 | 0.488 | 124.0 | 10.4 | 0.069 |
| 5.0 | 99.0 | 6.184 | 65.0 | 26.5 | 0.443 | 125.0 | 10.4 | 0.068 |
| 6.0 | 98.8 | 6.159 | 66.0 | 25.2 | 0.401 | 126.0 | 10.3 | 0.067 |
| 7.0 | 98.6 | 6.134 | 67.0 | 23.9 | 0.360 | 127.0 | 10.3 | 0.067 |
| 8.0 | 98.4 | 6.109 | 68.0 | 22.6 | 0.322 | 128.0 | 10.2 | 0.066 |
| 9.0 | 98.2 | 6.084 | 69.0 | 21.3 | 0.286 | 129.0 | 10.2 | 0.066 |
| 10.0 | 98.0 | 6.060 | 70.0 | 20.0 | 0.252 | 130.0 | 10.2 | 0.065 |
| 11.0 | 97.3 | 5.973 | 71.0 | 19.0 | 0.228 | 131.0 | 10.0 | 0.063 |
| 12.0 | 96.6 | 5.888 | 72.0 | 18.0 | 0.204 | 132.0 | 9.8 | 0.061 |
| 13.0 | 95.9 | 5.803 | 73.0 | 17.0 | 0.182 | 133.0 | 9.6 | 0.058 |
| 14.0 | 95.2 | 5.718 | 74.0 | 16.0 | 0.162 | 134.0 | 9.4 | 0.055 |
| 15.0 | 94.5 | 5.635 | 75.0 | 15.0 | 0.142 | 135.0 | 9.1 | 0.053 |
| 16.0 | 93.8 | 5.551 | 76.0 | 14.0 | 0.124 | 136.0 | 8.9 | 0.050 |
| 17.0 | 93.1 | 5.469 | 77.0 | 13.0 | 0.107 | 137.0 | 8.7 | 0.048 |
| 18.0 | 92.4 | 5.387 | 78.0 | 12.0 | 0.091 | 138.0 | 8.5 | 0.046 |
| 19.0 | 91.7 | 5.306 | 79.0 | 11.0 | 0.076 | 139.0 | 8.4 | 0.044 |
| 20.0 | 91.0 | 5.225 | 80.0 | 10.0 | 0.063 | 140.0 | 8.2 | 0.042 |
| 21.0 | 89.8 | 5.088 | 81.0 | 9.2 | 0.053 | 141.0 | 8.1 | 0.042 |
| 22.0 | 88.6 | 4.953 | 82.0 | 8.4 | 0.045 | 142.0 | 8.1 | 0.041 |
| 23.0 | 87.4 | 4.820 | 83.0 | 7.6 | 0.036 | 143.0 | 8.0 | 0.040 |
| 24.0 | 86.2 | 4.688 | 84.0 | 6.8 | 0.029 | 144.0 | 7.9 | 0.040 |
| 25.0 | 85.0 | 4.559 | 85.0 | 6.0 | 0.023 | 145.0 | 7.9 | 0.039 |
| 26.0 | 83.8 | 4.431 | 86.0 | 5.2 | 0.017 | 146.0 | 7.9 | 0.039 |
| 27.0 | 82.6 | 4.305 | 87.0 | 4.4 | 0.012 | 147.0 | 7.8 | 0.039 |
| 28.0 | 81.4 | 4.181 | 88.0 | 3.6 | 0.008 | 148.0 | 7.8 | 0.038 |
| 29.0 | 80.2 | 4.058 | 89.0 | 2.8 | 0.005 | 149.0 | 7.7 | 0.038 |
| 30.0 | 79.0 | 3.938 | 90.0 | 2.0 | 0.003 | 150.0 | 7.7 | 0.038 |
| 31.0 | 77.6 | 3.799 | 91.0 | 2.6 | 0.004 | 151.0 | 7.9 | 0.039 |
| 32.0 | 76.2 | 3.664 | 92.0 | 3.2 | 0.006 | 152.0 | 8.0 | 0.040 |
| 33.0 | 74.8 | 3.530 | 93.0 | 3.7 | 0.009 | 153.0 | 8.1 | 0.042 |
| 34.0 | 73.4 | 3.399 | 94.0 | 4.3 | 0.012 | 154.0 | 8.3 | 0.043 |
| 35.0 | 72.0 | 3.271 | 95.0 | 4.8 | 0.015 | 155.0 | 8.4 | 0.044 |
| 36.0 | 70.6 | 3.145 | 96.0 | 5.4 | 0.018 | 156.0 | 8.5 | 0.046 |
| 37.0 | 69.2 | 3.021 | 97.0 | 5.9 | 0.022 | 157.0 | 8.6 | 0.047 |
| 38.0 | 67.8 | 2.900 | 98.0 | 6.4 | 0.026 | 158.0 | 8.7 | 0.048 |
| 39.0 | 66.4 | 2.782 | 99.0 | 6.9 | 0.030 | 159.0 | 8.9 | 0.049 |
| 40.0 | 65.0 | 2.666 | 100.0 | 7.4 | 0.034 | 160.0 | 9.0 | 0.051 |
| 41.0 | 63.5 | 2.544 | 101.0 | 7.8 | 0.038 | 161.0 | 9.1 | 0.052 |
| 42.0 | 62.0 | 2.425 | 102.0 | 8.2 | 0.042 | 162.0 | 9.2 | 0.053 |
| 43.0 | 60.5 | 2.309 | 103.0 | 8.6 | 0.046 | 163.0 | 9.2 | 0.054 |
| 44.0 | 59.0 | 2.196 | 104.0 | 8.9 | 0.050 | 164.0 | 9.3 | 0.055 |
| 45.0 | 57.5 | 2.086 | 105.0 | 9.3 | 0.055 | 165.0 | 9.4 | 0.056 |
| 46.0 | 56.0 | 1.979 | 106.0 | 9.7 | 0.059 | 166.0 | 9.5 | 0.057 |
| 47.0 | 54.5 | 1.874 | 107.0 | 10.0 | 0.063 | 167.0 | 9.6 | 0.058 |
| 48.0 | 53.0 | 1.772 | 108.0 | 10.3 | 0.067 | 168.0 | 9.6 | 0.059 |
| 49.0 | 51.5 | 1.673 | 109.0 | 10.5 | 0.070 | 169.0 | 9.7 | 0.059 |
| 50.0 | 50.0 | 1.577 | 110.0 | 10.8 | 0.073 | 170.0 | 9.8 | 0.060 |
| 51.0 | 48.3 | 1.472 | 111.0 | 10.8 | 0.073 | 171.0 | 9.8 | 0.061 |
| 52.0 | 46.6 | 1.370 | 112.0 | 10.8 | 0.073 | 172.0 | 9.8 | 0.061 |
| 53.0 | 44.9 | 1.272 | 113.0 | 10.8 | 0.073 | 173.0 | 9.9 | 0.061 |
| 54.0 | 43.2 | 1.178 | 114.0 | 10.7 | 0.073 | 174.0 | 9.9 | 0.062 |
| 55.0 | 41.5 | 1.087 | 115.0 | 10.7 | 0.073 | 175.0 | 9.9 | 0.062 |
| 56.0 | 39.8 | 0.999 | 116.0 | 10.7 | 0.072 | 176.0 | 9.9 | 0.062 |
| 57.0 | 38.1 | 0.916 | 117.0 | 10.7 | 0.072 | 177.0 | 10.0 | 0.063 |
| 58.0 | 36.4 | 0.836 | 118.0 | 10.7 | 0.072 | 178.0 | 10.0 | 0.063 |
| 59.0 | 34.7 | 0.760 | 119.0 | 10.7 | 0.072 | 179.0 | 10.0 | 0.063 |

TX station: Ekr2

Frequency: 128.00 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 | 10.0 | 0.063 | 240.0 | 10.7 | 0.072 | 300.0 | 33.0 | 0.687 |
| 181.0 | 10.0 | 0.063 | 241.0 | 10.7 | 0.072 | 301.0 | 34.7 | 0.760 |
| 182.0 | 10.0 | 0.063 | 242.0 | 10.7 | 0.072 | 302.0 | 36.4 | 0.836 |
| 183.0 | 10.0 | 0.063 | 243.0 | 10.7 | 0.072 | 303.0 | 38.1 | 0.916 |
| 184.0 | 9.9 | 0.062 | 244.0 | 10.7 | 0.072 | 304.0 | 39.8 | 0.999 |
| 185.0 | 9.9 | 0.062 | 245.0 | 10.7 | 0.073 | 305.0 | 41.5 | 1.087 |
| 186.0 | 9.9 | 0.062 | 246.0 | 10.7 | 0.073 | 306.0 | 43.2 | 1.178 |
| 187.0 | 9.9 | 0.061 | 247.0 | 10.8 | 0.073 | 307.0 | 44.9 | 1.272 |
| 188.0 | 9.8 | 0.061 | 248.0 | 10.8 | 0.073 | 308.0 | 46.6 | 1.370 |
| 189.0 | 9.8 | 0.061 | 249.0 | 10.8 | 0.073 | 309.0 | 48.3 | 1.472 |
| 190.0 | 9.8 | 0.060 | 250.0 | 10.8 | 0.073 | 310.0 | 50.0 | 1.577 |
| 191.0 | 9.7 | 0.059 | 251.0 | 10.5 | 0.070 | 311.0 | 51.5 | 1.673 |
| 192.0 | 9.6 | 0.059 | 252.0 | 10.3 | 0.067 | 312.0 | 53.0 | 1.772 |
| 193.0 | 9.6 | 0.058 | 253.0 | 10.0 | 0.063 | 313.0 | 54.5 | 1.874 |
| 194.0 | 9.5 | 0.057 | 254.0 | 9.7 | 0.059 | 314.0 | 56.0 | 1.979 |
| 195.0 | 9.4 | 0.056 | 255.0 | 9.3 | 0.055 | 315.0 | 57.5 | 2.086 |
| 196.0 | 9.3 | 0.055 | 256.0 | 8.9 | 0.050 | 316.0 | 59.0 | 2.196 |
| 197.0 | 9.2 | 0.054 | 257.0 | 8.6 | 0.046 | 317.0 | 60.5 | 2.309 |
| 198.0 | 9.2 | 0.053 | 258.0 | 8.2 | 0.042 | 318.0 | 62.0 | 2.425 |
| 199.0 | 9.1 | 0.052 | 259.0 | 7.8 | 0.038 | 319.0 | 63.5 | 2.544 |
| 200.0 | 9.0 | 0.051 | 260.0 | 7.4 | 0.034 | 320.0 | 65.0 | 2.666 |
| 201.0 | 8.9 | 0.049 | 261.0 | 6.9 | 0.030 | 321.0 | 66.4 | 2.782 |
| 202.0 | 8.7 | 0.048 | 262.0 | 6.4 | 0.026 | 322.0 | 67.8 | 2.900 |
| 203.0 | 8.6 | 0.047 | 263.0 | 5.9 | 0.022 | 323.0 | 69.2 | 3.021 |
| 204.0 | 8.5 | 0.046 | 264.0 | 5.4 | 0.018 | 324.0 | 70.6 | 3.145 |
| 205.0 | 8.4 | 0.044 | 265.0 | 4.8 | 0.015 | 325.0 | 72.0 | 3.271 |
| 206.0 | 8.3 | 0.043 | 266.0 | 4.3 | 0.012 | 326.0 | 73.4 | 3.399 |
| 207.0 | 8.1 | 0.042 | 267.0 | 3.7 | 0.009 | 327.0 | 74.8 | 3.530 |
| 208.0 | 8.0 | 0.040 | 268.0 | 3.2 | 0.006 | 328.0 | 76.2 | 3.664 |
| 209.0 | 7.9 | 0.039 | 269.0 | 2.6 | 0.004 | 329.0 | 77.6 | 3.799 |
| 210.0 | 7.7 | 0.038 | 270.0 | 2.0 | 0.003 | 330.0 | 79.0 | 3.938 |
| 211.0 | 7.7 | 0.038 | 271.0 | 2.8 | 0.005 | 331.0 | 80.2 | 4.058 |
| 212.0 | 7.8 | 0.038 | 272.0 | 3.6 | 0.008 | 332.0 | 81.4 | 4.181 |
| 213.0 | 7.8 | 0.039 | 273.0 | 4.4 | 0.012 | 333.0 | 82.6 | 4.305 |
| 214.0 | 7.9 | 0.039 | 274.0 | 5.2 | 0.017 | 334.0 | 83.8 | 4.431 |
| 215.0 | 7.9 | 0.039 | 275.0 | 6.0 | 0.023 | 335.0 | 85.0 | 4.559 |
| 216.0 | 7.9 | 0.040 | 276.0 | 6.8 | 0.029 | 336.0 | 86.2 | 4.688 |
| 217.0 | 8.0 | 0.040 | 277.0 | 7.6 | 0.036 | 337.0 | 87.4 | 4.820 |
| 218.0 | 8.1 | 0.041 | 278.0 | 8.4 | 0.045 | 338.0 | 88.6 | 4.953 |
| 219.0 | 8.1 | 0.042 | 279.0 | 9.2 | 0.053 | 339.0 | 89.8 | 5.088 |
| 220.0 | 8.2 | 0.042 | 280.0 | 10.0 | 0.063 | 340.0 | 91.0 | 5.225 |
| 221.0 | 8.4 | 0.044 | 281.0 | 11.0 | 0.076 | 341.0 | 91.7 | 5.306 |
| 222.0 | 8.5 | 0.046 | 282.0 | 12.0 | 0.091 | 342.0 | 92.4 | 5.387 |
| 223.0 | 8.7 | 0.048 | 283.0 | 13.0 | 0.107 | 343.0 | 93.1 | 5.469 |
| 224.0 | 8.9 | 0.050 | 284.0 | 14.0 | 0.124 | 344.0 | 93.8 | 5.551 |
| 225.0 | 9.1 | 0.053 | 285.0 | 15.0 | 0.142 | 345.0 | 94.5 | 5.635 |
| 226.0 | 9.4 | 0.055 | 286.0 | 16.0 | 0.162 | 346.0 | 95.2 | 5.718 |
| 227.0 | 9.6 | 0.058 | 287.0 | 17.0 | 0.182 | 347.0 | 95.9 | 5.803 |
| 228.0 | 9.8 | 0.061 | 288.0 | 18.0 | 0.204 | 348.0 | 96.6 | 5.888 |
| 229.0 | 10.0 | 0.063 | 289.0 | 19.0 | 0.228 | 349.0 | 97.3 | 5.973 |
| 230.0 | 10.2 | 0.065 | 290.0 | 20.0 | 0.252 | 350.0 | 98.0 | 6.060 |
| 231.0 | 10.2 | 0.066 | 291.0 | 21.3 | 0.286 | 351.0 | 98.2 | 6.084 |
| 232.0 | 10.2 | 0.066 | 292.0 | 22.6 | 0.322 | 352.0 | 98.4 | 6.109 |
| 233.0 | 10.3 | 0.067 | 293.0 | 23.9 | 0.360 | 353.0 | 98.6 | 6.134 |
| 234.0 | 10.3 | 0.067 | 294.0 | 25.2 | 0.401 | 354.0 | 98.8 | 6.159 |
| 235.0 | 10.4 | 0.068 | 295.0 | 26.5 | 0.443 | 355.0 | 99.0 | 6.184 |
| 236.0 | 10.4 | 0.069 | 296.0 | 27.8 | 0.488 | 356.0 | 99.2 | 6.209 |
| 237.0 | 10.5 | 0.069 | 297.0 | 29.1 | 0.534 | 357.0 | 99.4 | 6.234 |
| 238.0 | 10.5 | 0.070 | 298.0 | 30.4 | 0.583 | 358.0 | 99.6 | 6.259 |
| 239.0 | 10.6 | 0.071 | 299.0 | 31.7 | 0.634 | 359.0 | 99.8 | 6.284 |