

TX station: Bkr3

Gain solid integration : disabled

Site Name: Labelitaly

**General data of Antenna System**

|   |                                       |
|---|---------------------------------------|
| TX station                                  | Bkr3                                  |
| 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)                | 155.000                               |
| Antenna system central frequency (MHz)      | 155.000                               |
| Antenna base diagrams type 1                | LABEL ITALY-BKR_3 YAGI 3 ELEM. VHF WB |
| 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           | BKR_3 YAGI 3 ELEM.    |
| Band start(MHz)         | 140                   |
| Band stop(MHz)          | 174                   |
| diagrams Frequency(MHz) | 155                   |
| Polariz (H,V,C,X)       | V                     |
| Vertical dist (cm)      | 155                   |
| Height (cm)             | 109                   |
| Width (cm)              | 6                     |
| Thickness (cm)          | 88                    |
| Weight (Kg)             | 6                     |
| Maximum power (KW)      | 2                     |
| Gain (dBd)              | 5                     |
| North E.C. (cm)         | 0                     |
| East E.C. (cm)          | 0                     |
| Return loss (dB)        | 20                    |
| R.C.Phase (°)           | 0                     |

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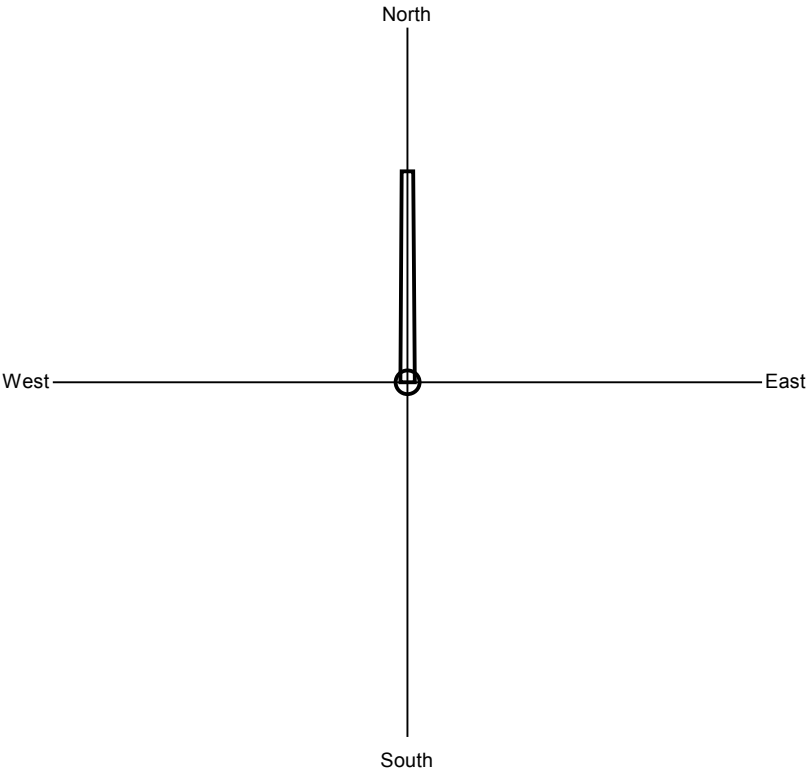
Geometr. and electrical data of Antenna System

|   | <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                      |

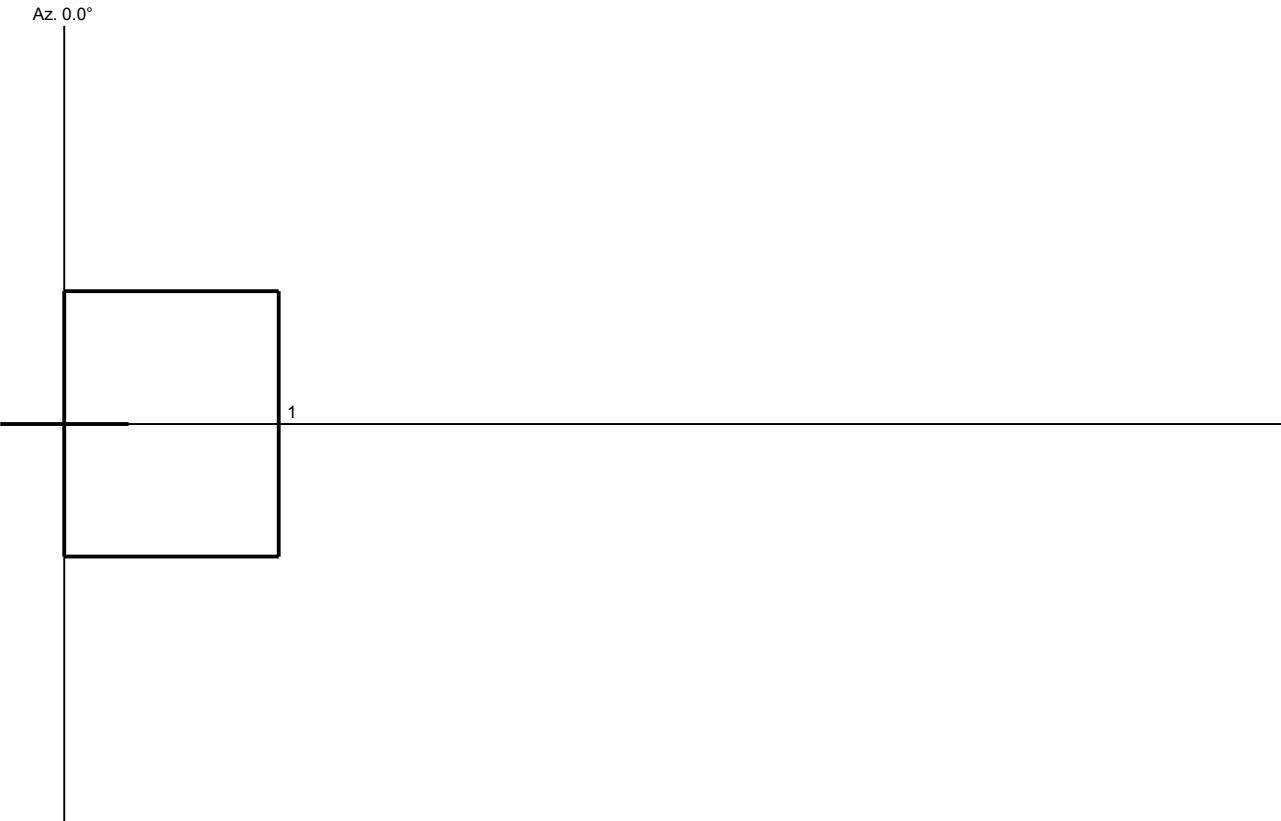
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Plan of antenna system



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)      | 5.00    |
| G. Distribution losses (dB)       | 0.00    |
| H. Nominal max gain [F - G] (dBd) | 5.00    |
| I. Compensation losses (dB)       | 0.00    |
| J. Effec. max gain [H - I] (dBd)  | 5.00    |
| K. Effec. max gain (times)        | 3.16    |
| L. Effec. max power [E * K] (KW)  | 3.1623  |
| 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         | 5.0 | 90        | -1.0 | 180       | -8.4 | 270       | -1.0 |
| 10        | 5.0 | 100       | -2.8 | 190       | -8.4 | 280       | 0.4  |
| 20        | 4.8 | 110       | -4.4 | 200       | -8.3 | 290       | 1.7  |
| 30        | 4.5 | 120       | -5.8 | 210       | -8.1 | 300       | 2.8  |
| 40        | 4.1 | 130       | -6.8 | 220       | -7.6 | 310       | 3.6  |
| 50        | 3.6 | 140       | -7.6 | 230       | -6.8 | 320       | 4.1  |
| 60        | 2.8 | 150       | -8.1 | 240       | -5.8 | 330       | 4.5  |
| 70        | 1.7 | 160       | -8.3 | 250       | -4.4 | 340       | 4.8  |
| 80        | 0.4 | 170       | -8.4 | 260       | -2.8 | 350       | 5.0  |

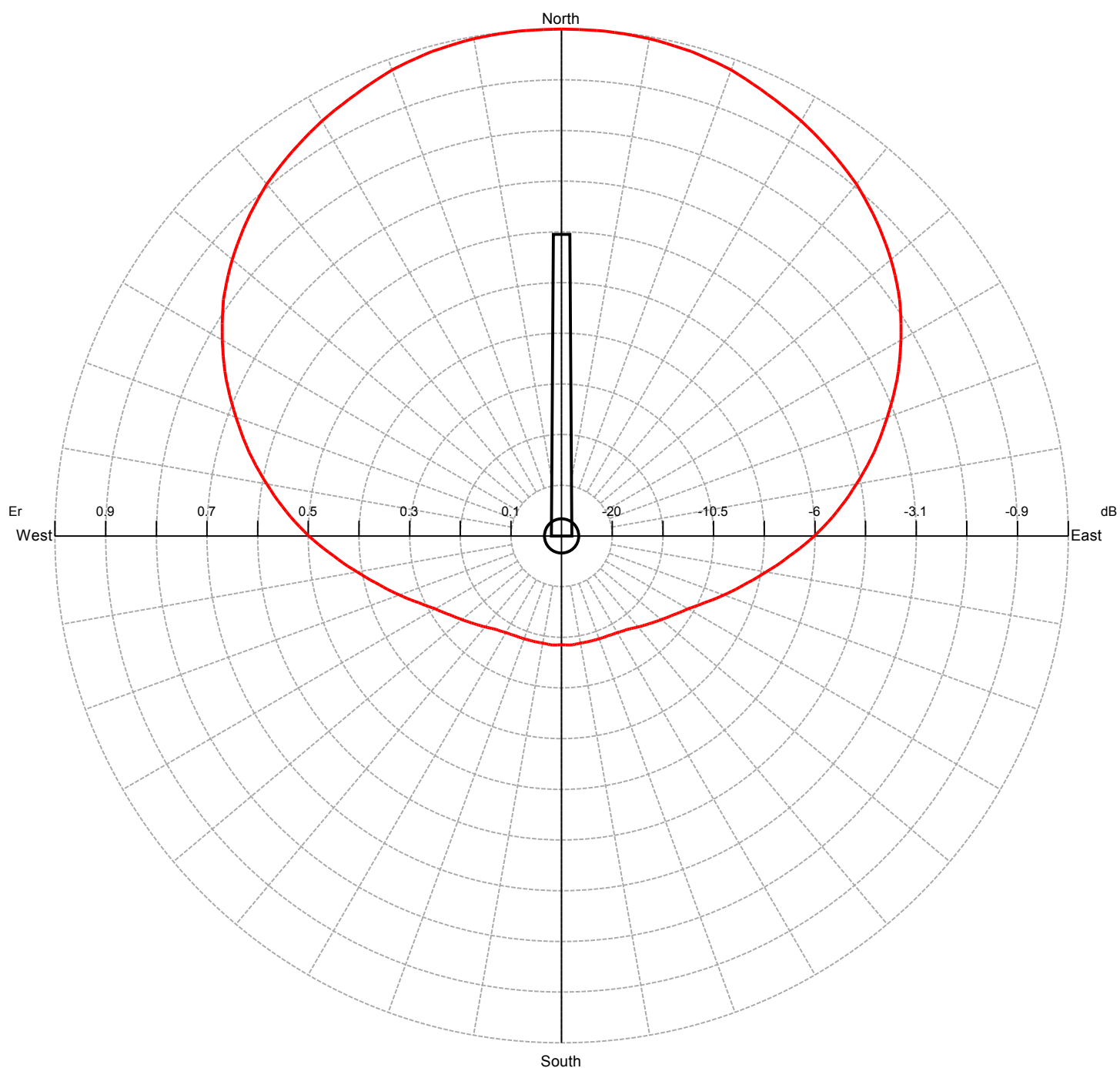
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## Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 5

ERP T.Max(KW): 3.1623 ERP E.Max(KW): 3.1623

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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  | 3.162    | 60.0   | 77.4   | 1.892    | 120.0  | 28.8   | 0.262    |
| 1.0    | 100.0  | 3.162    | 61.0   | 76.5   | 1.851    | 121.0  | 28.4   | 0.256    |
| 2.0    | 100.0  | 3.161    | 62.0   | 75.6   | 1.809    | 122.0  | 28.1   | 0.249    |
| 3.0    | 100.0  | 3.160    | 63.0   | 74.8   | 1.769    | 123.0  | 27.7   | 0.243    |
| 4.0    | 100.0  | 3.160    | 64.0   | 73.9   | 1.728    | 124.0  | 27.4   | 0.237    |
| 5.0    | 99.9   | 3.159    | 65.0   | 73.1   | 1.688    | 125.0  | 27.1   | 0.232    |
| 6.0    | 99.9   | 3.155    | 66.0   | 72.1   | 1.645    | 126.0  | 26.8   | 0.227    |
| 7.0    | 99.8   | 3.152    | 67.0   | 71.2   | 1.603    | 127.0  | 26.5   | 0.222    |
| 8.0    | 99.8   | 3.148    | 68.0   | 70.3   | 1.561    | 128.0  | 26.2   | 0.217    |
| 9.0    | 99.7   | 3.144    | 69.0   | 69.3   | 1.519    | 129.0  | 25.9   | 0.213    |
| 10.0   | 99.6   | 3.140    | 70.0   | 68.4   | 1.479    | 130.0  | 25.7   | 0.208    |
| 11.0   | 99.5   | 3.131    | 71.0   | 67.5   | 1.440    | 131.0  | 25.4   | 0.205    |
| 12.0   | 99.4   | 3.123    | 72.0   | 66.6   | 1.401    | 132.0  | 25.2   | 0.201    |
| 13.0   | 99.2   | 3.114    | 73.0   | 65.7   | 1.363    | 133.0  | 25.0   | 0.197    |
| 14.0   | 99.1   | 3.105    | 74.0   | 64.8   | 1.326    | 134.0  | 24.7   | 0.193    |
| 15.0   | 98.9   | 3.096    | 75.0   | 63.8   | 1.289    | 135.0  | 24.5   | 0.189    |
| 16.0   | 98.7   | 3.083    | 76.0   | 62.9   | 1.251    | 136.0  | 24.3   | 0.186    |
| 17.0   | 98.5   | 3.069    | 77.0   | 62.0   | 1.214    | 137.0  | 24.1   | 0.183    |
| 18.0   | 98.3   | 3.055    | 78.0   | 61.0   | 1.177    | 138.0  | 23.9   | 0.180    |
| 19.0   | 98.1   | 3.042    | 79.0   | 60.1   | 1.140    | 139.0  | 23.6   | 0.177    |
| 20.0   | 97.9   | 3.028    | 80.0   | 59.1   | 1.105    | 140.0  | 23.4   | 0.174    |
| 21.0   | 97.5   | 3.007    | 81.0   | 58.2   | 1.071    | 141.0  | 23.3   | 0.171    |
| 22.0   | 97.2   | 2.986    | 82.0   | 57.3   | 1.037    | 142.0  | 23.1   | 0.168    |
| 23.0   | 96.8   | 2.966    | 83.0   | 56.4   | 1.004    | 143.0  | 22.9   | 0.166    |
| 24.0   | 96.5   | 2.945    | 84.0   | 55.4   | 0.972    | 144.0  | 22.7   | 0.163    |
| 25.0   | 96.2   | 2.924    | 85.0   | 54.5   | 0.940    | 145.0  | 22.5   | 0.160    |
| 26.0   | 95.8   | 2.905    | 86.0   | 53.6   | 0.909    | 146.0  | 22.4   | 0.159    |
| 27.0   | 95.5   | 2.886    | 87.0   | 52.7   | 0.878    | 147.0  | 22.3   | 0.158    |
| 28.0   | 95.2   | 2.866    | 88.0   | 51.8   | 0.847    | 148.0  | 22.2   | 0.156    |
| 29.0   | 94.9   | 2.847    | 89.0   | 50.8   | 0.817    | 149.0  | 22.1   | 0.155    |
| 30.0   | 94.6   | 2.828    | 90.0   | 49.9   | 0.787    | 150.0  | 22.0   | 0.153    |
| 31.0   | 94.2   | 2.805    | 91.0   | 49.0   | 0.758    | 151.0  | 22.0   | 0.152    |
| 32.0   | 93.8   | 2.782    | 92.0   | 48.0   | 0.729    | 152.0  | 21.9   | 0.152    |
| 33.0   | 93.4   | 2.760    | 93.0   | 47.1   | 0.701    | 153.0  | 21.8   | 0.151    |
| 34.0   | 93.0   | 2.737    | 94.0   | 46.1   | 0.672    | 154.0  | 21.8   | 0.150    |
| 35.0   | 92.7   | 2.715    | 95.0   | 45.1   | 0.645    | 155.0  | 21.7   | 0.149    |
| 36.0   | 92.2   | 2.690    | 96.0   | 44.3   | 0.621    | 156.0  | 21.7   | 0.149    |
| 37.0   | 91.8   | 2.666    | 97.0   | 43.5   | 0.598    | 157.0  | 21.7   | 0.149    |
| 38.0   | 91.4   | 2.642    | 98.0   | 42.6   | 0.575    | 158.0  | 21.7   | 0.148    |
| 39.0   | 91.0   | 2.618    | 99.0   | 41.8   | 0.553    | 159.0  | 21.6   | 0.148    |
| 40.0   | 90.6   | 2.595    | 100.0  | 41.0   | 0.531    | 160.0  | 21.6   | 0.148    |
| 41.0   | 90.0   | 2.564    | 101.0  | 40.2   | 0.511    | 161.0  | 21.6   | 0.147    |
| 42.0   | 89.5   | 2.533    | 102.0  | 39.5   | 0.493    | 162.0  | 21.6   | 0.147    |
| 43.0   | 89.0   | 2.503    | 103.0  | 38.7   | 0.474    | 163.0  | 21.6   | 0.147    |
| 44.0   | 88.4   | 2.473    | 104.0  | 38.0   | 0.456    | 164.0  | 21.5   | 0.147    |
| 45.0   | 87.9   | 2.443    | 105.0  | 37.2   | 0.438    | 165.0  | 21.5   | 0.146    |
| 46.0   | 87.3   | 2.409    | 106.0  | 36.6   | 0.423    | 166.0  | 21.5   | 0.146    |
| 47.0   | 86.7   | 2.376    | 107.0  | 36.0   | 0.409    | 167.0  | 21.5   | 0.146    |
| 48.0   | 86.1   | 2.343    | 108.0  | 35.3   | 0.395    | 168.0  | 21.5   | 0.146    |
| 49.0   | 85.5   | 2.311    | 109.0  | 34.7   | 0.381    | 169.0  | 21.5   | 0.146    |
| 50.0   | 84.9   | 2.278    | 110.0  | 34.1   | 0.367    | 170.0  | 21.5   | 0.145    |
| 51.0   | 84.2   | 2.242    | 111.0  | 33.5   | 0.354    | 171.0  | 21.5   | 0.146    |
| 52.0   | 83.5   | 2.205    | 112.0  | 32.9   | 0.342    | 172.0  | 21.5   | 0.146    |
| 53.0   | 82.8   | 2.169    | 113.0  | 32.3   | 0.330    | 173.0  | 21.5   | 0.147    |
| 54.0   | 82.1   | 2.134    | 114.0  | 31.7   | 0.318    | 174.0  | 21.6   | 0.147    |
| 55.0   | 81.5   | 2.098    | 115.0  | 31.2   | 0.307    | 175.0  | 21.6   | 0.147    |
| 56.0   | 80.6   | 2.056    | 116.0  | 30.7   | 0.297    | 176.0  | 21.6   | 0.147    |
| 57.0   | 79.8   | 2.015    | 117.0  | 30.2   | 0.288    | 177.0  | 21.5   | 0.147    |
| 58.0   | 79.0   | 1.974    | 118.0  | 29.7   | 0.279    | 178.0  | 21.5   | 0.146    |
| 59.0   | 78.2   | 1.933    | 119.0  | 29.2   | 0.270    | 179.0  | 21.5   | 0.146    |

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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  | 21.5   | 0.145    | 240.0  | 28.8   | 0.262    | 300.0  | 77.4   | 1.892    |
| 181.0  | 21.5   | 0.146    | 241.0  | 29.2   | 0.270    | 301.0  | 78.2   | 1.933    |
| 182.0  | 21.5   | 0.146    | 242.0  | 29.7   | 0.279    | 302.0  | 79.0   | 1.974    |
| 183.0  | 21.5   | 0.147    | 243.0  | 30.2   | 0.288    | 303.0  | 79.8   | 2.015    |
| 184.0  | 21.6   | 0.147    | 244.0  | 30.7   | 0.297    | 304.0  | 80.6   | 2.056    |
| 185.0  | 21.6   | 0.147    | 245.0  | 31.2   | 0.307    | 305.0  | 81.5   | 2.098    |
| 186.0  | 21.6   | 0.147    | 246.0  | 31.7   | 0.318    | 306.0  | 82.1   | 2.134    |
| 187.0  | 21.5   | 0.147    | 247.0  | 32.3   | 0.330    | 307.0  | 82.8   | 2.169    |
| 188.0  | 21.5   | 0.146    | 248.0  | 32.9   | 0.342    | 308.0  | 83.5   | 2.205    |
| 189.0  | 21.5   | 0.146    | 249.0  | 33.5   | 0.354    | 309.0  | 84.2   | 2.242    |
| 190.0  | 21.5   | 0.145    | 250.0  | 34.1   | 0.367    | 310.0  | 84.9   | 2.278    |
| 191.0  | 21.5   | 0.146    | 251.0  | 34.7   | 0.381    | 311.0  | 85.5   | 2.311    |
| 192.0  | 21.5   | 0.146    | 252.0  | 35.3   | 0.395    | 312.0  | 86.1   | 2.343    |
| 193.0  | 21.5   | 0.146    | 253.0  | 36.0   | 0.409    | 313.0  | 86.7   | 2.376    |
| 194.0  | 21.5   | 0.146    | 254.0  | 36.6   | 0.423    | 314.0  | 87.3   | 2.409    |
| 195.0  | 21.5   | 0.146    | 255.0  | 37.2   | 0.438    | 315.0  | 87.9   | 2.443    |
| 196.0  | 21.5   | 0.147    | 256.0  | 38.0   | 0.456    | 316.0  | 88.4   | 2.473    |
| 197.0  | 21.6   | 0.147    | 257.0  | 38.7   | 0.474    | 317.0  | 89.0   | 2.503    |
| 198.0  | 21.6   | 0.147    | 258.0  | 39.5   | 0.493    | 318.0  | 89.5   | 2.533    |
| 199.0  | 21.6   | 0.147    | 259.0  | 40.2   | 0.511    | 319.0  | 90.0   | 2.564    |
| 200.0  | 21.6   | 0.148    | 260.0  | 41.0   | 0.531    | 320.0  | 90.6   | 2.595    |
| 201.0  | 21.6   | 0.148    | 261.0  | 41.8   | 0.553    | 321.0  | 91.0   | 2.618    |
| 202.0  | 21.7   | 0.148    | 262.0  | 42.6   | 0.575    | 322.0  | 91.4   | 2.642    |
| 203.0  | 21.7   | 0.149    | 263.0  | 43.5   | 0.598    | 323.0  | 91.8   | 2.666    |
| 204.0  | 21.7   | 0.149    | 264.0  | 44.3   | 0.621    | 324.0  | 92.2   | 2.690    |
| 205.0  | 21.7   | 0.149    | 265.0  | 45.1   | 0.645    | 325.0  | 92.7   | 2.715    |
| 206.0  | 21.8   | 0.150    | 266.0  | 46.1   | 0.672    | 326.0  | 93.0   | 2.737    |
| 207.0  | 21.8   | 0.151    | 267.0  | 47.1   | 0.701    | 327.0  | 93.4   | 2.760    |
| 208.0  | 21.9   | 0.152    | 268.0  | 48.0   | 0.729    | 328.0  | 93.8   | 2.782    |
| 209.0  | 22.0   | 0.152    | 269.0  | 49.0   | 0.758    | 329.0  | 94.2   | 2.805    |
| 210.0  | 22.0   | 0.153    | 270.0  | 49.9   | 0.787    | 330.0  | 94.6   | 2.828    |
| 211.0  | 22.1   | 0.155    | 271.0  | 50.8   | 0.817    | 331.0  | 94.9   | 2.847    |
| 212.0  | 22.2   | 0.156    | 272.0  | 51.8   | 0.847    | 332.0  | 95.2   | 2.866    |
| 213.0  | 22.3   | 0.158    | 273.0  | 52.7   | 0.878    | 333.0  | 95.5   | 2.886    |
| 214.0  | 22.4   | 0.159    | 274.0  | 53.6   | 0.909    | 334.0  | 95.8   | 2.905    |
| 215.0  | 22.5   | 0.160    | 275.0  | 54.5   | 0.940    | 335.0  | 96.2   | 2.924    |
| 216.0  | 22.7   | 0.163    | 276.0  | 55.4   | 0.972    | 336.0  | 96.5   | 2.945    |
| 217.0  | 22.9   | 0.166    | 277.0  | 56.4   | 1.004    | 337.0  | 96.8   | 2.966    |
| 218.0  | 23.1   | 0.168    | 278.0  | 57.3   | 1.037    | 338.0  | 97.2   | 2.986    |
| 219.0  | 23.3   | 0.171    | 279.0  | 58.2   | 1.071    | 339.0  | 97.5   | 3.007    |
| 220.0  | 23.4   | 0.174    | 280.0  | 59.1   | 1.105    | 340.0  | 97.9   | 3.028    |
| 221.0  | 23.6   | 0.177    | 281.0  | 60.1   | 1.140    | 341.0  | 98.1   | 3.042    |
| 222.0  | 23.9   | 0.180    | 282.0  | 61.0   | 1.177    | 342.0  | 98.3   | 3.055    |
| 223.0  | 24.1   | 0.183    | 283.0  | 62.0   | 1.214    | 343.0  | 98.5   | 3.069    |
| 224.0  | 24.3   | 0.186    | 284.0  | 62.9   | 1.251    | 344.0  | 98.7   | 3.083    |
| 225.0  | 24.5   | 0.189    | 285.0  | 63.8   | 1.289    | 345.0  | 98.9   | 3.096    |
| 226.0  | 24.7   | 0.193    | 286.0  | 64.8   | 1.326    | 346.0  | 99.1   | 3.105    |
| 227.0  | 25.0   | 0.197    | 287.0  | 65.7   | 1.363    | 347.0  | 99.2   | 3.114    |
| 228.0  | 25.2   | 0.201    | 288.0  | 66.6   | 1.401    | 348.0  | 99.4   | 3.123    |
| 229.0  | 25.4   | 0.205    | 289.0  | 67.5   | 1.440    | 349.0  | 99.5   | 3.131    |
| 230.0  | 25.7   | 0.208    | 290.0  | 68.4   | 1.479    | 350.0  | 99.6   | 3.140    |
| 231.0  | 25.9   | 0.213    | 291.0  | 69.3   | 1.519    | 351.0  | 99.7   | 3.144    |
| 232.0  | 26.2   | 0.217    | 292.0  | 70.3   | 1.561    | 352.0  | 99.8   | 3.148    |
| 233.0  | 26.5   | 0.222    | 293.0  | 71.2   | 1.603    | 353.0  | 99.8   | 3.152    |
| 234.0  | 26.8   | 0.227    | 294.0  | 72.1   | 1.645    | 354.0  | 99.9   | 3.155    |
| 235.0  | 27.1   | 0.232    | 295.0  | 73.1   | 1.688    | 355.0  | 99.9   | 3.159    |
| 236.0  | 27.4   | 0.237    | 296.0  | 73.9   | 1.728    | 356.0  | 100.0  | 3.160    |
| 237.0  | 27.7   | 0.243    | 297.0  | 74.8   | 1.769    | 357.0  | 100.0  | 3.160    |
| 238.0  | 28.1   | 0.249    | 298.0  | 75.6   | 1.809    | 358.0  | 100.0  | 3.161    |
| 239.0  | 28.4   | 0.256    | 299.0  | 76.5   | 1.851    | 359.0  | 100.0  | 3.162    |

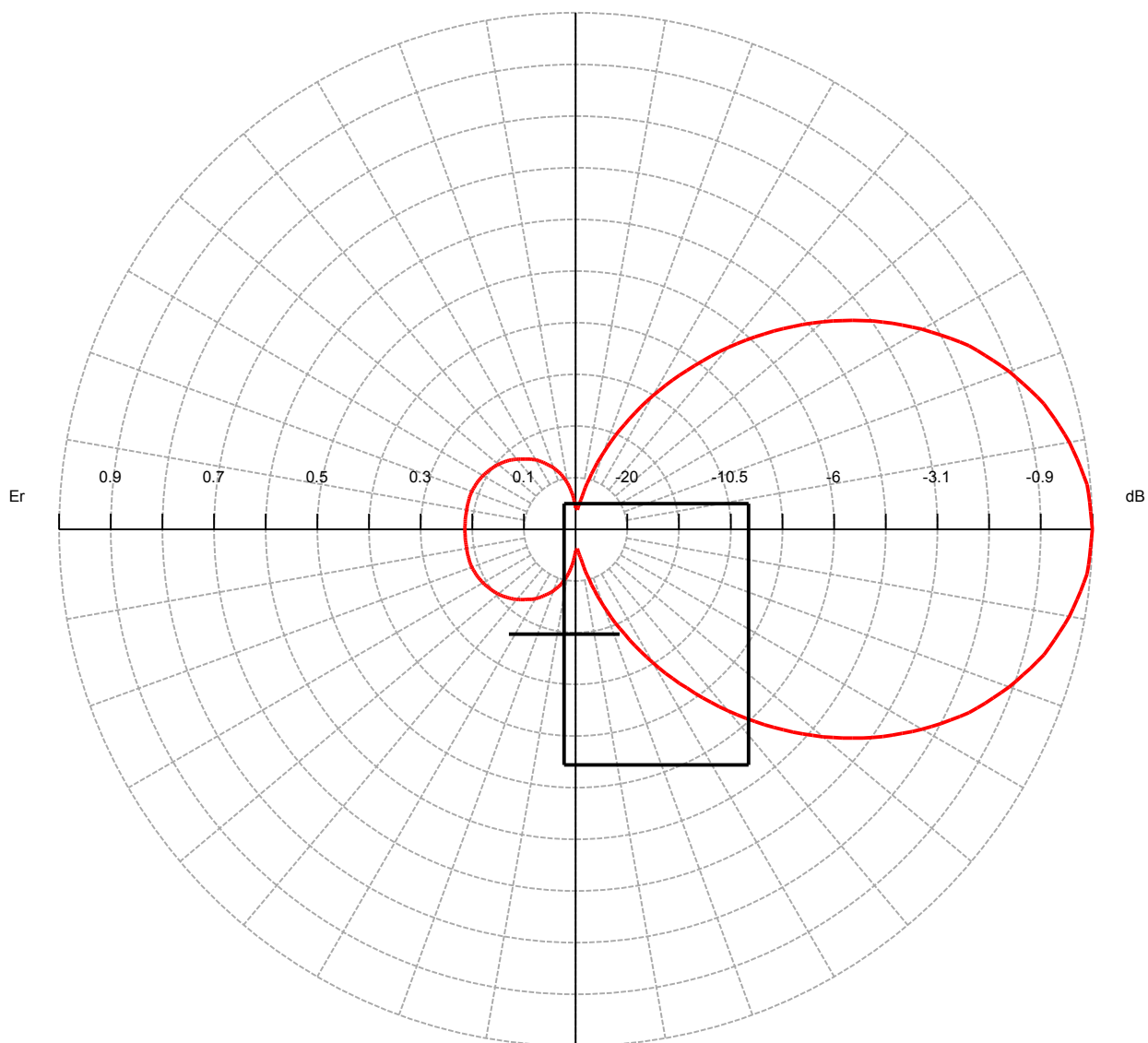
TX station: Bkr3

Frequency: 155.00 MHz

Gain solid integration : disabled

Site Name: Labelitaly

## Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 5

ERP T.Max(KW): 3.1623 ERP E.Max(KW): 3.1623



TX station: Bkr3

Frequency: 155.00 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  | 3.162    | 60.0    | 29.8   | 0.281    | 120.0   | 15.5   | 0.076    |
| 1.0     | 99.9   | 3.154    | 61.0    | 28.3   | 0.253    | 121.0   | 15.7   | 0.078    |
| 2.0     | 99.8   | 3.147    | 62.0    | 26.8   | 0.227    | 122.0   | 16.0   | 0.081    |
| 3.0     | 99.6   | 3.139    | 63.0    | 25.3   | 0.203    | 123.0   | 16.2   | 0.083    |
| 4.0     | 99.5   | 3.131    | 64.0    | 23.8   | 0.180    | 124.0   | 16.4   | 0.085    |
| 5.0     | 99.4   | 3.123    | 65.0    | 22.4   | 0.158    | 125.0   | 16.6   | 0.087    |
| 6.0     | 98.9   | 3.094    | 66.0    | 21.1   | 0.140    | 126.0   | 16.8   | 0.089    |
| 7.0     | 98.4   | 3.065    | 67.0    | 19.7   | 0.123    | 127.0   | 17.0   | 0.092    |
| 8.0     | 98.0   | 3.036    | 68.0    | 18.4   | 0.107    | 128.0   | 17.3   | 0.094    |
| 9.0     | 97.5   | 3.007    | 69.0    | 17.1   | 0.093    | 129.0   | 17.5   | 0.097    |
| 10.0    | 97.1   | 2.978    | 70.0    | 15.8   | 0.079    | 130.0   | 17.7   | 0.099    |
| 11.0    | 96.4   | 2.939    | 71.0    | 14.7   | 0.068    | 131.0   | 17.9   | 0.102    |
| 12.0    | 95.8   | 2.900    | 72.0    | 13.5   | 0.058    | 132.0   | 18.1   | 0.104    |
| 13.0    | 95.1   | 2.862    | 73.0    | 12.3   | 0.048    | 133.0   | 18.3   | 0.106    |
| 14.0    | 94.5   | 2.823    | 74.0    | 11.2   | 0.039    | 134.0   | 18.5   | 0.109    |
| 15.0    | 93.9   | 2.785    | 75.0    | 10.0   | 0.032    | 135.0   | 18.7   | 0.111    |
| 16.0    | 92.9   | 2.731    | 76.0    | 9.2    | 0.027    | 136.0   | 18.9   | 0.113    |
| 17.0    | 92.0   | 2.678    | 77.0    | 8.3    | 0.022    | 137.0   | 19.1   | 0.115    |
| 18.0    | 91.1   | 2.625    | 78.0    | 7.5    | 0.018    | 138.0   | 19.2   | 0.117    |
| 19.0    | 90.2   | 2.572    | 79.0    | 6.6    | 0.014    | 139.0   | 19.4   | 0.119    |
| 20.0    | 89.3   | 2.520    | 80.0    | 5.8    | 0.011    | 140.0   | 19.6   | 0.121    |
| 21.0    | 88.2   | 2.461    | 81.0    | 5.4    | 0.009    | 141.0   | 19.7   | 0.123    |
| 22.0    | 87.2   | 2.403    | 82.0    | 5.0    | 0.008    | 142.0   | 19.8   | 0.124    |
| 23.0    | 86.1   | 2.346    | 83.0    | 4.6    | 0.007    | 143.0   | 19.9   | 0.126    |
| 24.0    | 85.1   | 2.289    | 84.0    | 4.2    | 0.005    | 144.0   | 20.1   | 0.127    |
| 25.0    | 84.0   | 2.233    | 85.0    | 3.8    | 0.004    | 145.0   | 20.2   | 0.129    |
| 26.0    | 82.7   | 2.164    | 86.0    | 3.8    | 0.005    | 146.0   | 20.3   | 0.130    |
| 27.0    | 81.4   | 2.095    | 87.0    | 3.9    | 0.005    | 147.0   | 20.4   | 0.132    |
| 28.0    | 80.1   | 2.027    | 88.0    | 4.0    | 0.005    | 148.0   | 20.5   | 0.133    |
| 29.0    | 78.7   | 1.961    | 89.0    | 4.0    | 0.005    | 149.0   | 20.6   | 0.135    |
| 30.0    | 77.4   | 1.895    | 90.0    | 4.1    | 0.005    | 150.0   | 20.7   | 0.136    |
| 31.0    | 76.0   | 1.826    | 91.0    | 4.6    | 0.007    | 151.0   | 20.8   | 0.137    |
| 32.0    | 74.6   | 1.759    | 92.0    | 5.1    | 0.008    | 152.0   | 20.9   | 0.138    |
| 33.0    | 73.1   | 1.692    | 93.0    | 5.6    | 0.010    | 153.0   | 21.0   | 0.139    |
| 34.0    | 71.7   | 1.627    | 94.0    | 6.0    | 0.012    | 154.0   | 21.1   | 0.140    |
| 35.0    | 70.3   | 1.563    | 95.0    | 6.5    | 0.013    | 155.0   | 21.1   | 0.141    |
| 36.0    | 68.7   | 1.494    | 96.0    | 7.0    | 0.016    | 156.0   | 21.2   | 0.142    |
| 37.0    | 67.2   | 1.427    | 97.0    | 7.5    | 0.018    | 157.0   | 21.3   | 0.143    |
| 38.0    | 65.6   | 1.362    | 98.0    | 8.0    | 0.020    | 158.0   | 21.3   | 0.144    |
| 39.0    | 64.1   | 1.298    | 99.0    | 8.5    | 0.023    | 159.0   | 21.4   | 0.144    |
| 40.0    | 62.5   | 1.235    | 100.0   | 9.0    | 0.026    | 160.0   | 21.4   | 0.145    |
| 41.0    | 60.9   | 1.171    | 101.0   | 9.4    | 0.028    | 161.0   | 21.4   | 0.145    |
| 42.0    | 59.2   | 1.108    | 102.0   | 9.8    | 0.031    | 162.0   | 21.5   | 0.146    |
| 43.0    | 57.6   | 1.048    | 103.0   | 10.2   | 0.033    | 163.0   | 21.5   | 0.146    |
| 44.0    | 55.9   | 0.988    | 104.0   | 10.6   | 0.036    | 164.0   | 21.5   | 0.146    |
| 45.0    | 54.3   | 0.931    | 105.0   | 11.0   | 0.038    | 165.0   | 21.5   | 0.146    |
| 46.0    | 52.6   | 0.874    | 106.0   | 11.4   | 0.041    | 166.0   | 21.5   | 0.146    |
| 47.0    | 50.9   | 0.820    | 107.0   | 11.7   | 0.043    | 167.0   | 21.5   | 0.146    |
| 48.0    | 49.2   | 0.767    | 108.0   | 12.0   | 0.046    | 168.0   | 21.5   | 0.146    |
| 49.0    | 47.6   | 0.715    | 109.0   | 12.3   | 0.048    | 169.0   | 21.5   | 0.146    |
| 50.0    | 45.9   | 0.666    | 110.0   | 12.7   | 0.051    | 170.0   | 21.5   | 0.146    |
| 51.0    | 44.2   | 0.618    | 111.0   | 13.0   | 0.053    | 171.0   | 21.5   | 0.146    |
| 52.0    | 42.5   | 0.572    | 112.0   | 13.3   | 0.056    | 172.0   | 21.5   | 0.146    |
| 53.0    | 40.9   | 0.528    | 113.0   | 13.5   | 0.058    | 173.0   | 21.5   | 0.146    |
| 54.0    | 39.2   | 0.486    | 114.0   | 13.8   | 0.060    | 174.0   | 21.5   | 0.146    |
| 55.0    | 37.5   | 0.445    | 115.0   | 14.1   | 0.063    | 175.0   | 21.5   | 0.146    |
| 56.0    | 36.0   | 0.409    | 116.0   | 14.4   | 0.066    | 176.0   | 21.5   | 0.146    |
| 57.0    | 34.4   | 0.375    | 117.0   | 14.7   | 0.068    | 177.0   | 21.5   | 0.146    |
| 58.0    | 32.9   | 0.342    | 118.0   | 15.0   | 0.071    | 178.0   | 21.5   | 0.146    |
| 59.0    | 31.3   | 0.310    | 119.0   | 15.3   | 0.074    | 179.0   | 21.5   | 0.145    |

TX station: Bkr3

Frequency: 155.00 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   | 21.5   | 0.145    | 240.0   | 15.5   | 0.076    | 300.0   | 29.8   | 0.281    |
| 181.0   | 21.5   | 0.145    | 241.0   | 15.3   | 0.074    | 301.0   | 31.3   | 0.310    |
| 182.0   | 21.5   | 0.146    | 242.0   | 15.0   | 0.071    | 302.0   | 32.9   | 0.342    |
| 183.0   | 21.5   | 0.146    | 243.0   | 14.7   | 0.068    | 303.0   | 34.4   | 0.375    |
| 184.0   | 21.5   | 0.146    | 244.0   | 14.4   | 0.066    | 304.0   | 36.0   | 0.409    |
| 185.0   | 21.5   | 0.146    | 245.0   | 14.1   | 0.063    | 305.0   | 37.5   | 0.445    |
| 186.0   | 21.5   | 0.146    | 246.0   | 13.8   | 0.060    | 306.0   | 39.2   | 0.486    |
| 187.0   | 21.5   | 0.146    | 247.0   | 13.5   | 0.058    | 307.0   | 40.9   | 0.528    |
| 188.0   | 21.5   | 0.146    | 248.0   | 13.3   | 0.056    | 308.0   | 42.5   | 0.572    |
| 189.0   | 21.5   | 0.146    | 249.0   | 13.0   | 0.053    | 309.0   | 44.2   | 0.618    |
| 190.0   | 21.5   | 0.146    | 250.0   | 12.7   | 0.051    | 310.0   | 45.9   | 0.666    |
| 191.0   | 21.5   | 0.146    | 251.0   | 12.3   | 0.048    | 311.0   | 47.6   | 0.715    |
| 192.0   | 21.5   | 0.146    | 252.0   | 12.0   | 0.046    | 312.0   | 49.2   | 0.767    |
| 193.0   | 21.5   | 0.146    | 253.0   | 11.7   | 0.043    | 313.0   | 50.9   | 0.820    |
| 194.0   | 21.5   | 0.146    | 254.0   | 11.4   | 0.041    | 314.0   | 52.6   | 0.874    |
| 195.0   | 21.5   | 0.146    | 255.0   | 11.0   | 0.038    | 315.0   | 54.3   | 0.931    |
| 196.0   | 21.5   | 0.146    | 256.0   | 10.6   | 0.036    | 316.0   | 55.9   | 0.988    |
| 197.0   | 21.5   | 0.146    | 257.0   | 10.2   | 0.033    | 317.0   | 57.6   | 1.048    |
| 198.0   | 21.5   | 0.146    | 258.0   | 9.8    | 0.031    | 318.0   | 59.2   | 1.108    |
| 199.0   | 21.4   | 0.145    | 259.0   | 9.4    | 0.028    | 319.0   | 60.9   | 1.171    |
| 200.0   | 21.4   | 0.145    | 260.0   | 9.0    | 0.026    | 320.0   | 62.5   | 1.235    |
| 201.0   | 21.4   | 0.144    | 261.0   | 8.5    | 0.023    | 321.0   | 64.1   | 1.298    |
| 202.0   | 21.3   | 0.144    | 262.0   | 8.0    | 0.020    | 322.0   | 65.6   | 1.362    |
| 203.0   | 21.3   | 0.143    | 263.0   | 7.5    | 0.018    | 323.0   | 67.2   | 1.427    |
| 204.0   | 21.2   | 0.142    | 264.0   | 7.0    | 0.016    | 324.0   | 68.7   | 1.494    |
| 205.0   | 21.1   | 0.141    | 265.0   | 6.5    | 0.013    | 325.0   | 70.3   | 1.563    |
| 206.0   | 21.1   | 0.140    | 266.0   | 6.0    | 0.012    | 326.0   | 71.7   | 1.627    |
| 207.0   | 21.0   | 0.139    | 267.0   | 5.6    | 0.010    | 327.0   | 73.1   | 1.692    |
| 208.0   | 20.9   | 0.138    | 268.0   | 5.1    | 0.008    | 328.0   | 74.6   | 1.759    |
| 209.0   | 20.8   | 0.137    | 269.0   | 4.6    | 0.007    | 329.0   | 76.0   | 1.826    |
| 210.0   | 20.7   | 0.136    | 270.0   | 4.1    | 0.005    | 330.0   | 77.4   | 1.895    |
| 211.0   | 20.6   | 0.135    | 271.0   | 4.0    | 0.005    | 331.0   | 78.7   | 1.961    |
| 212.0   | 20.5   | 0.133    | 272.0   | 4.0    | 0.005    | 332.0   | 80.1   | 2.027    |
| 213.0   | 20.4   | 0.132    | 273.0   | 3.9    | 0.005    | 333.0   | 81.4   | 2.095    |
| 214.0   | 20.3   | 0.130    | 274.0   | 3.8    | 0.005    | 334.0   | 82.7   | 2.164    |
| 215.0   | 20.2   | 0.129    | 275.0   | 3.8    | 0.004    | 335.0   | 84.0   | 2.233    |
| 216.0   | 20.1   | 0.127    | 276.0   | 4.2    | 0.005    | 336.0   | 85.1   | 2.289    |
| 217.0   | 19.9   | 0.126    | 277.0   | 4.6    | 0.007    | 337.0   | 86.1   | 2.346    |
| 218.0   | 19.8   | 0.124    | 278.0   | 5.0    | 0.008    | 338.0   | 87.2   | 2.403    |
| 219.0   | 19.7   | 0.123    | 279.0   | 5.4    | 0.009    | 339.0   | 88.2   | 2.461    |
| 220.0   | 19.6   | 0.121    | 280.0   | 5.8    | 0.011    | 340.0   | 89.3   | 2.520    |
| 221.0   | 19.4   | 0.119    | 281.0   | 6.6    | 0.014    | 341.0   | 90.2   | 2.572    |
| 222.0   | 19.2   | 0.117    | 282.0   | 7.5    | 0.018    | 342.0   | 91.1   | 2.625    |
| 223.0   | 19.1   | 0.115    | 283.0   | 8.3    | 0.022    | 343.0   | 92.0   | 2.678    |
| 224.0   | 18.9   | 0.113    | 284.0   | 9.2    | 0.027    | 344.0   | 92.9   | 2.731    |
| 225.0   | 18.7   | 0.111    | 285.0   | 10.0   | 0.032    | 345.0   | 93.9   | 2.785    |
| 226.0   | 18.5   | 0.109    | 286.0   | 11.2   | 0.039    | 346.0   | 94.5   | 2.823    |
| 227.0   | 18.3   | 0.106    | 287.0   | 12.3   | 0.048    | 347.0   | 95.1   | 2.862    |
| 228.0   | 18.1   | 0.104    | 288.0   | 13.5   | 0.058    | 348.0   | 95.8   | 2.900    |
| 229.0   | 17.9   | 0.102    | 289.0   | 14.7   | 0.068    | 349.0   | 96.4   | 2.939    |
| 230.0   | 17.7   | 0.099    | 290.0   | 15.8   | 0.079    | 350.0   | 97.1   | 2.978    |
| 231.0   | 17.5   | 0.097    | 291.0   | 17.1   | 0.093    | 351.0   | 97.5   | 3.007    |
| 232.0   | 17.3   | 0.094    | 292.0   | 18.4   | 0.107    | 352.0   | 98.0   | 3.036    |
| 233.0   | 17.0   | 0.092    | 293.0   | 19.7   | 0.123    | 353.0   | 98.4   | 3.065    |
| 234.0   | 16.8   | 0.089    | 294.0   | 21.1   | 0.140    | 354.0   | 98.9   | 3.094    |
| 235.0   | 16.6   | 0.087    | 295.0   | 22.4   | 0.158    | 355.0   | 99.4   | 3.123    |
| 236.0   | 16.4   | 0.085    | 296.0   | 23.8   | 0.180    | 356.0   | 99.5   | 3.131    |
| 237.0   | 16.2   | 0.083    | 297.0   | 25.3   | 0.203    | 357.0   | 99.6   | 3.139    |
| 238.0   | 16.0   | 0.081    | 298.0   | 26.8   | 0.227    | 358.0   | 99.8   | 3.147    |
| 239.0   | 15.7   | 0.078    | 299.0   | 28.3   | 0.253    | 359.0   | 99.9   | 3.154    |