

07-06-2023

Terrain Data: GLOBE 30 Sec

FMOver Analysis

WMMH. A

WRSU-FM BLED1206

Channel = 205A

Channel = 204A

Max ERP = 4 kW

Max ERP = 1.35 kW

RCAMSL = 111 m

RCAMSL = 62 m

N. Lat. 40 41 30.60

N. Lat. 40 28 00.30

W. Lng. 74 30 55.90

W. Lng. 74 26 13.50

Protected

Interfering

60 dBu

54 dBu

| Azimuth<br>(degrees) | ERP<br>(kW) | HAAT<br>(m) | Dist<br>(km) | Azimuth<br>(degrees) | ERP<br>(kW) | HAAT<br>(m) | Dist<br>(km) | Actual<br>(dBu) | IX<br>(km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 105.0                | 001.1664    | 0024.4      | 010.5        | 009.1                | 001.3500    | 0035.4      | 022.6        | 49.48           |            |
| 106.0                | 001.1151    | 0024.4      | 010.4        | 008.8                | 001.3500    | 0035.3      | 022.4        | 49.59           |            |
| 107.0                | 001.0650    | 0024.5      | 010.3        | 008.4                | 001.3500    | 0035.2      | 022.2        | 49.70           |            |
| 108.0                | 001.0161    | 0025.7      | 010.2        | 008.0                | 001.3500    | 0035.2      | 022.1        | 49.81           |            |
| 109.0                | 000.9683    | 0027.2      | 010.1        | 007.6                | 001.3500    | 0035.2      | 021.9        | 49.92           |            |
| 110.0                | 000.9216    | 0028.0      | 010.0        | 007.2                | 001.3500    | 0035.2      | 021.8        | 50.03           |            |
| 111.0                | 000.8836    | 0028.9      | 009.9        | 006.9                | 001.3500    | 0035.2      | 021.6        | 50.14           |            |
| 112.0                | 000.8501    | 0029.9      | 009.8        | 006.5                | 001.3500    | 0035.1      | 021.5        | 50.24           |            |
| 113.0                | 000.8136    | 0030.9      | 009.8        | 006.4                | 001.3500    | 0035.1      | 021.3        | 50.36           |            |
| 114.0                | 000.7815    | 0032.1      | 009.8        | 006.4                | 001.3500    | 0035.1      | 021.2        | 50.51           |            |
| 115.0                | 000.7500    | 0033.6      | 010.0        | 006.6                | 001.3500    | 0035.1      | 021.0        | 50.67           |            |
| 116.0                | 000.7157    | 0034.7      | 010.0        | 006.5                | 001.3500    | 0035.1      | 020.8        | 50.80           |            |
| 117.0                | 000.6823    | 0035.1      | 009.9        | 006.2                | 001.3500    | 0035.1      | 020.6        | 50.90           |            |
| 118.0                | 000.6529    | 0034.9      | 009.8        | 005.6                | 001.3500    | 0035.0      | 020.5        | 50.97           |            |
| 119.0                | 000.6209    | 0033.9      | 009.5        | 004.8                | 001.3500    | 0035.0      | 020.5        | 51.01           |            |
| 120.0                | 000.5929    | 0033.3      | 009.3        | 004.1                | 001.3500    | 0035.0      | 020.4        | 51.06           |            |
| 121.0                | 000.5685    | 0033.6      | 009.3        | 003.8                | 001.3500    | 0035.0      | 020.3        | 51.16           |            |
| 122.0                | 000.5476    | 0035.1      | 009.4        | 003.8                | 001.3500    | 0035.0      | 020.1        | 51.31           |            |
| 123.0                | 000.5242    | 0037.1      | 009.5        | 004.0                | 001.3500    | 0035.0      | 019.9        | 51.49           |            |
| 124.0                | 000.5041    | 0038.8      | 009.7        | 004.1                | 001.3500    | 0035.0      | 019.7        | 51.66           |            |
| 125.0                | 000.4816    | 0039.7      | 009.7        | 003.8                | 001.3500    | 0035.0      | 019.5        | 51.77           |            |
| 126.0                | 000.4624    | 0039.1      | 009.5        | 003.1                | 001.3500    | 0034.9      | 019.5        | 51.80           |            |
| 127.0                | 000.4436    | 0037.8      | 009.2        | 002.2                | 001.3500    | 0034.9      | 019.5        | 51.78           |            |
| 128.0                | 000.4225    | 0036.5      | 009.0        | 001.3                | 001.3500    | 0035.0      | 019.5        | 51.77           |            |
| 129.0                | 000.4020    | 0036.1      | 008.8        | 000.6                | 001.3500    | 0035.0      | 019.5        | 51.81           |            |
| 130.0                | 000.3844    | 0037.2      | 008.8        | 000.4                | 001.3500    | 0035.1      | 019.4        | 51.93           |            |
| 131.0                | 000.3697    | 0039.2      | 009.0        | 000.5                | 001.3500    | 0035.1      | 019.1        | 52.10           |            |
| 132.0                | 000.3552    | 0041.9      | 009.2        | 000.7                | 001.3500    | 0035.0      | 018.9        | 52.32           |            |
| 133.0                | 000.3411    | 0044.4      | 009.4        | 000.8                | 001.3500    | 0035.0      | 018.6        | 52.52           |            |
| 134.0                | 000.3272    | 0046.3      | 009.5        | 000.7                | 001.3500    | 0035.0      | 018.4        | 52.69           |            |
| 135.0                | 000.3136    | 0047.3      | 009.5        | 000.4                | 001.3500    | 0035.1      | 018.3        | 52.80           |            |
| 136.0                | 000.3003    | 0047.4      | 009.4        | 359.8                | 001.3500    | 0035.1      | 018.2        | 52.86           |            |
| 137.0                | 000.2873    | 0047.5      | 009.3        | 359.2                | 001.3500    | 0035.5      | 018.2        | 52.98           |            |
| 138.0                | 000.2746    | 0047.9      | 009.3        | 358.7                | 001.3500    | 0035.8      | 018.1        | 53.10           |            |

|       |          |        |       |       |          |        |       |       |
|-------|----------|--------|-------|-------|----------|--------|-------|-------|
| 139.0 | 000.2621 | 0048.3 | 009.2 | 358.2 | 001.3500 | 0036.1 | 018.1 | 53.21 |
| 140.0 | 000.2500 | 0048.3 | 009.1 | 357.6 | 001.3500 | 0036.4 | 018.1 | 53.31 |
| 141.0 | 000.2401 | 0048.2 | 009.0 | 356.9 | 001.3500 | 0036.6 | 018.1 | 53.35 |
| 142.0 | 000.2304 | 0047.7 | 008.8 | 356.3 | 001.3500 | 0036.6 | 018.1 | 53.34 |
| 143.0 | 000.2209 | 0047.3 | 008.7 | 355.6 | 001.3500 | 0036.7 | 018.1 | 53.32 |
| 144.0 | 000.2116 | 0047.1 | 008.6 | 355.0 | 001.3500 | 0036.6 | 018.2 | 53.29 |
| 145.0 | 000.2025 | 0047.0 | 008.5 | 354.4 | 001.3500 | 0036.2 | 018.2 | 53.17 |
| 146.0 | 000.1936 | 0047.0 | 008.4 | 353.9 | 001.3500 | 0035.7 | 018.2 | 53.04 |
| 147.0 | 000.1849 | 0046.9 | 008.2 | 353.3 | 001.3500 | 0035.2 | 018.2 | 52.88 |
| 148.0 | 000.1764 | 0047.1 | 008.1 | 352.8 | 001.3500 | 0034.8 | 018.3 | 52.75 |
| 149.0 | 000.1681 | 0046.7 | 008.0 | 352.2 | 001.3500 | 0034.5 | 018.3 | 52.62 |
| 150.0 | 000.1600 | 0045.7 | 007.8 | 351.5 | 001.3500 | 0034.5 | 018.5 | 52.51 |
| 151.0 | 000.1600 | 0044.2 | 007.6 | 351.0 | 001.3500 | 0034.2 | 018.6 | 52.37 |
| 152.0 | 000.1600 | 0042.5 | 007.5 | 350.4 | 001.3500 | 0034.0 | 018.7 | 52.22 |
| 153.0 | 000.1600 | 0041.3 | 007.4 | 349.9 | 001.3500 | 0033.8 | 018.7 | 52.11 |
| 154.0 | 000.1600 | 0041.1 | 007.4 | 349.6 | 001.3500 | 0033.6 | 018.7 | 52.07 |
| 155.0 | 000.1600 | 0041.4 | 007.4 | 349.2 | 001.3500 | 0033.3 | 018.7 | 52.06 |
| 156.0 | 000.1600 | 0041.5 | 007.4 | 348.8 | 001.3500 | 0033.0 | 018.6 | 52.02 |
| 157.0 | 000.1600 | 0041.5 | 007.4 | 348.4 | 001.3500 | 0032.7 | 018.6 | 51.96 |
| 158.0 | 000.1600 | 0041.8 | 007.4 | 348.1 | 001.3500 | 0032.3 | 018.5 | 51.91 |
| 159.0 | 000.1600 | 0042.1 | 007.4 | 347.7 | 001.3500 | 0032.0 | 018.5 | 51.87 |
| 160.0 | 000.1600 | 0042.1 | 007.4 | 347.3 | 001.3500 | 0031.7 | 018.5 | 51.81 |
| 161.0 | 000.1681 | 0041.8 | 007.5 | 346.9 | 001.3500 | 0031.6 | 018.4 | 51.85 |
| 162.0 | 000.1764 | 0041.2 | 007.5 | 346.5 | 001.3500 | 0031.9 | 018.4 | 51.96 |
| 163.0 | 000.1849 | 0041.2 | 007.7 | 346.1 | 001.3500 | 0032.2 | 018.2 | 52.14 |
| 164.0 | 000.1936 | 0042.2 | 007.9 | 345.7 | 001.3500 | 0032.2 | 018.0 | 52.30 |
| 165.0 | 000.2025 | 0042.5 | 008.0 | 345.3 | 001.3500 | 0031.9 | 017.9 | 52.32 |
| 166.0 | 000.2116 | 0042.0 | 008.0 | 344.8 | 001.3500 | 0031.4 | 017.9 | 52.23 |
| 167.0 | 000.2209 | 0041.0 | 008.0 | 344.4 | 001.3500 | 0030.8 | 017.9 | 52.08 |
| 168.0 | 000.2304 | 0040.6 | 008.0 | 343.9 | 001.3500 | 0030.3 | 017.9 | 51.97 |
| 169.0 | 000.2401 | 0040.5 | 008.1 | 343.4 | 001.3500 | 0029.9 | 017.8 | 51.96 |
| 170.0 | 000.2500 | 0040.1 | 008.2 | 343.0 | 001.3500 | 0029.9 | 017.8 | 51.98 |
| 171.0 | 000.2621 | 0039.4 | 008.2 | 342.5 | 001.3500 | 0029.9 | 017.8 | 51.98 |
| 172.0 | 000.2746 | 0039.0 | 008.3 | 342.0 | 001.3500 | 0029.8 | 017.7 | 52.01 |
| 173.0 | 000.2873 | 0037.5 | 008.2 | 341.6 | 001.3500 | 0029.7 | 017.8 | 51.93 |
| 174.0 | 000.3003 | 0036.0 | 008.1 | 341.2 | 001.3500 | 0029.5 | 017.9 | 51.84 |
| 175.0 | 000.3136 | 0034.9 | 008.1 | 340.8 | 001.3500 | 0029.5 | 018.0 | 51.78 |
| 176.0 | 000.3272 | 0035.0 | 008.2 | 340.3 | 001.3500 | 0029.8 | 017.9 | 51.84 |
| 177.0 | 000.3411 | 0035.6 | 008.3 | 339.7 | 001.3500 | 0030.2 | 017.8 | 52.00 |
| 178.0 | 000.3552 | 0036.5 | 008.5 | 339.0 | 001.3500 | 0030.2 | 017.7 | 52.11 |
| 179.0 | 000.3697 | 0037.0 | 008.7 | 338.4 | 001.3500 | 0030.0 | 017.6 | 52.14 |
| 180.0 | 000.3844 | 0035.9 | 008.7 | 338.0 | 001.3500 | 0029.8 | 017.7 | 52.06 |
| 181.0 | 000.4020 | 0034.8 | 008.6 | 337.6 | 001.3500 | 0029.6 | 017.8 | 51.98 |
| 182.0 | 000.4225 | 0033.5 | 008.6 | 337.2 | 001.3500 | 0029.7 | 017.9 | 51.89 |
| 183.0 | 000.4436 | 0032.2 | 008.5 | 336.9 | 001.3500 | 0030.0 | 018.0 | 51.80 |
| 184.0 | 000.4624 | 0031.8 | 008.6 | 336.4 | 001.3500 | 0030.5 | 018.0 | 51.90 |
| 185.0 | 000.4816 | 0031.0 | 008.6 | 336.0 | 001.3500 | 0031.0 | 018.1 | 51.96 |
| 186.0 | 000.5041 | 0031.2 | 008.7 | 335.3 | 001.3500 | 0031.6 | 018.0 | 52.16 |
| 187.0 | 000.5242 | 0031.4 | 008.8 | 334.7 | 001.3500 | 0032.1 | 018.0 | 52.28 |
| 188.0 | 000.5476 | 0031.3 | 008.9 | 334.2 | 001.3500 | 0032.4 | 018.0 | 52.36 |
| 189.0 | 000.5685 | 0030.4 | 008.9 | 333.8 | 001.3500 | 0032.6 | 018.1 | 52.31 |

|       |          |        |       |       |          |        |       |       |
|-------|----------|--------|-------|-------|----------|--------|-------|-------|
| 190.0 | 000.5929 | 0028.9 | 008.9 | 333.3 | 001.3500 | 0032.7 | 018.2 | 52.29 |
| 191.0 | 000.6209 | 0027.3 | 009.0 | 332.7 | 001.3500 | 0032.7 | 018.2 | 52.28 |
| 192.0 | 000.6529 | 0027.2 | 009.1 | 332.1 | 001.3500 | 0032.5 | 018.2 | 52.22 |
| 193.0 | 000.6823 | 0028.4 | 009.2 | 331.5 | 001.3500 | 0032.3 | 018.2 | 52.17 |
| 194.0 | 000.7157 | 0030.7 | 009.4 | 330.7 | 001.3500 | 0032.2 | 018.2 | 52.16 |
| 195.0 | 000.7500 | 0031.9 | 009.7 | 329.7 | 001.3500 | 0031.6 | 018.1 | 52.08 |
| 196.0 | 000.7815 | 0030.7 | 009.7 | 329.5 | 001.3500 | 0031.4 | 018.3 | 51.90 |
| 197.0 | 000.8136 | 0028.8 | 009.7 | 329.1 | 001.3500 | 0031.1 | 018.4 | 51.73 |
| 198.0 | 000.8501 | 0026.6 | 009.8 | 328.5 | 001.3500 | 0031.0 | 018.5 | 51.65 |
| 199.0 | 000.8836 | 0024.0 | 009.9 | 328.0 | 001.3500 | 0031.4 | 018.5 | 51.68 |
| 200.0 | 000.9216 | 0021.4 | 010.0 | 327.4 | 001.3500 | 0032.2 | 018.6 | 51.84 |
| 201.0 | 000.9683 | 0019.8 | 010.1 | 326.8 | 001.3500 | 0033.8 | 018.7 | 52.16 |
| 202.0 | 001.0161 | 0020.0 | 010.2 | 326.2 | 001.3500 | 0035.1 | 018.8 | 52.44 |
| 203.0 | 001.0650 | 0021.1 | 010.3 | 325.6 | 001.3500 | 0036.2 | 018.8 | 52.64 |
| 204.0 | 001.1151 | 0022.0 | 010.4 | 325.0 | 001.3500 | 0036.8 | 018.9 | 52.70 |
| 205.0 | 001.1664 | 0022.5 | 010.5 | 324.4 | 001.3500 | 0037.2 | 019.0 | 52.71 |
| 206.0 | 001.2188 | 0022.9 | 010.7 | 323.8 | 001.3500 | 0037.7 | 019.1 | 52.74 |
| 207.0 | 001.2724 | 0023.1 | 010.8 | 323.3 | 001.3500 | 0038.4 | 019.3 | 52.80 |
| 208.0 | 001.3271 | 0023.7 | 010.9 | 322.7 | 001.3500 | 0039.5 | 019.4 | 52.96 |
| 209.0 | 001.3830 | 0024.8 | 011.0 | 322.2 | 001.3500 | 0040.6 | 019.5 | 53.09 |
| 210.0 | 001.4400 | 0026.2 | 011.1 | 321.7 | 001.3500 | 0041.5 | 019.6 | 53.19 |
| 211.0 | 001.5129 | 0027.5 | 011.2 | 321.1 | 001.3500 | 0042.1 | 019.8 | 53.21 |
| 212.0 | 001.5876 | 0028.2 | 011.4 | 320.6 | 001.3500 | 0042.2 | 019.9 | 53.11 |
| 213.0 | 001.6641 | 0028.6 | 011.5 | 320.1 | 001.3500 | 0042.0 | 020.1 | 52.95 |
| 214.0 | 001.7424 | 0029.0 | 011.6 | 319.6 | 001.3500 | 0041.7 | 020.2 | 52.76 |
| 215.0 | 001.8225 | 0029.0 | 011.7 | 319.1 | 001.3500 | 0041.4 | 020.4 | 52.56 |
| 216.0 | 001.9044 | 0028.0 | 011.9 | 318.6 | 001.3500 | 0041.1 | 020.6 | 52.35 |
| 217.0 | 001.9881 | 0026.5 | 012.0 | 318.2 | 001.3500 | 0040.8 | 020.7 | 52.14 |
| 218.0 | 002.0736 | 0026.0 | 012.1 | 317.7 | 001.3500 | 0040.5 | 020.9 | 51.94 |
| 219.0 | 002.1609 | 0026.6 | 012.2 | 317.3 | 001.3500 | 0040.4 | 021.1 | 51.75 |
| 220.0 | 002.2500 | 0027.0 | 012.3 | 316.9 | 001.3500 | 0040.3 | 021.3 | 51.58 |
| 221.0 | 002.3593 | 0026.3 | 012.5 | 316.5 | 001.3500 | 0040.3 | 021.5 | 51.43 |
| 222.0 | 002.4712 | 0024.7 | 012.6 | 316.1 | 001.3500 | 0040.4 | 021.7 | 51.28 |
| 223.0 | 002.5857 | 0023.0 | 012.8 | 315.7 | 001.3500 | 0040.4 | 021.9 | 51.11 |
| 224.0 | 002.7027 | 0021.7 | 012.9 | 315.3 | 001.3500 | 0040.4 | 022.2 | 50.94 |

07-06-2023

Terrain Data: GLOBE 30 Sec

FMOver Analysis

WRSU-FM BLED1206

WMMH. A

Channel = 204A

Channel = 205A

Max ERP = 1.35 kW

Max ERP = 4 kW

RCAMSL = 62 m

RCAMSL = 111 m

N. Lat. 40 28 00.30

N. Lat. 40 41 30.60

W. Lng. 74 26 13.50

W. Lng. 74 30 55.90

Protected

Interfering

60 dBu

54 dBu

| Azimuth<br>(degrees) | ERP<br>(kW) | HAAT<br>(m) | Di st<br>(km) | Azimuth<br>(degrees) | ERP<br>(kW) | HAAT<br>(m) | Di st<br>(km) | Actual<br>(dBu) | I X<br>(km) |
|----------------------|-------------|-------------|---------------|----------------------|-------------|-------------|---------------|-----------------|-------------|
| 285.0                | 001.3500    | 0033.0      | 011.4         | 191.2                | 000.6269    | 0027.1      | 022.5         | 44.89           |             |
| 286.0                | 001.3500    | 0032.7      | 011.3         | 191.0                | 000.6214    | 0027.3      | 022.3         | 45.00           |             |
| 287.0                | 001.3500    | 0032.6      | 011.3         | 190.9                | 000.6186    | 0027.4      | 022.1         | 45.12           |             |
| 288.0                | 001.3500    | 0032.7      | 011.3         | 190.9                | 000.6190    | 0027.4      | 021.9         | 45.28           |             |
| 289.0                | 001.3500    | 0033.2      | 011.4         | 191.0                | 000.6225    | 0027.3      | 021.7         | 45.46           |             |
| 290.0                | 001.3500    | 0034.0      | 011.5         | 191.3                | 000.6292    | 0027.1      | 021.5         | 45.67           |             |
| 291.0                | 001.3500    | 0034.6      | 011.6         | 191.4                | 000.6343    | 0027.0      | 021.3         | 45.87           |             |
| 292.0                | 001.3500    | 0034.8      | 011.7         | 191.4                | 000.6341    | 0027.0      | 021.1         | 46.02           |             |
| 293.0                | 001.3500    | 0034.8      | 011.7         | 191.3                | 000.6310    | 0027.0      | 020.9         | 46.16           |             |
| 294.0                | 001.3500    | 0034.6      | 011.6         | 191.1                | 000.6250    | 0027.2      | 020.7         | 46.27           |             |
| 295.0                | 001.3500    | 0034.7      | 011.6         | 191.0                | 000.6212    | 0027.3      | 020.5         | 46.40           |             |
| 296.0                | 001.3500    | 0034.9      | 011.7         | 191.0                | 000.6199    | 0027.4      | 020.3         | 46.55           |             |
| 297.0                | 001.3500    | 0035.3      | 011.7         | 191.0                | 000.6199    | 0027.4      | 020.1         | 46.72           |             |
| 298.0                | 001.3500    | 0035.6      | 011.8         | 190.9                | 000.6186    | 0027.4      | 019.9         | 46.87           |             |
| 299.0                | 001.3500    | 0035.9      | 011.8         | 190.9                | 000.6174    | 0027.5      | 019.7         | 47.03           |             |
| 300.0                | 001.3500    | 0036.3      | 011.9         | 190.8                | 000.6166    | 0027.5      | 019.4         | 47.20           |             |
| 301.0                | 001.3500    | 0036.7      | 011.9         | 190.8                | 000.6155    | 0027.6      | 019.2         | 47.37           |             |
| 302.0                | 001.3500    | 0037.0      | 012.0         | 190.7                | 000.6130    | 0027.7      | 019.0         | 47.52           |             |
| 303.0                | 001.3500    | 0037.2      | 012.0         | 190.6                | 000.6095    | 0027.9      | 018.8         | 47.67           |             |
| 304.0                | 001.3500    | 0037.6      | 012.1         | 190.5                | 000.6069    | 0028.1      | 018.6         | 47.82           |             |
| 305.0                | 001.3500    | 0038.0      | 012.1         | 190.4                | 000.6048    | 0028.2      | 018.4         | 47.99           |             |
| 306.0                | 001.3500    | 0038.3      | 012.2         | 190.3                | 000.6002    | 0028.5      | 018.2         | 48.13           |             |
| 307.0                | 001.3500    | 0038.3      | 012.2         | 190.0                | 000.5922    | 0029.0      | 018.0         | 48.23           |             |
| 308.0                | 001.3500    | 0038.1      | 012.2         | 189.6                | 000.5820    | 0029.6      | 017.8         | 48.30           |             |
| 309.0                | 001.3500    | 0037.9      | 012.1         | 189.1                | 000.5719    | 0030.2      | 017.6         | 48.42           |             |
| 310.0                | 001.3500    | 0038.0      | 012.1         | 188.8                | 000.5647    | 0030.7      | 017.4         | 48.64           |             |
| 311.0                | 001.3500    | 0038.3      | 012.2         | 188.6                | 000.5594    | 0031.0      | 017.2         | 48.85           |             |
| 312.0                | 001.3500    | 0038.7      | 012.3         | 188.4                | 000.5555    | 0031.2      | 017.0         | 49.05           |             |
| 313.0                | 001.3500    | 0039.4      | 012.3         | 188.2                | 000.5525    | 0031.3      | 016.8         | 49.24           |             |
| 314.0                | 001.3500    | 0039.9      | 012.4         | 188.1                | 000.5487    | 0031.3      | 016.6         | 49.42           |             |
| 315.0                | 001.3500    | 0040.3      | 012.5         | 187.8                | 000.5417    | 0031.4      | 016.3         | 49.55           |             |
| 316.0                | 001.3500    | 0040.4      | 012.5         | 187.3                | 000.5317    | 0031.4      | 016.2         | 49.63           |             |
| 317.0                | 001.3500    | 0040.3      | 012.5         | 186.8                | 000.5201    | 0031.3      | 016.0         | 49.65           |             |
| 318.0                | 001.3500    | 0040.7      | 012.5         | 186.4                | 000.5128    | 0031.3      | 015.8         | 49.76           |             |
| 319.0                | 001.3500    | 0041.3      | 012.7         | 186.2                | 000.5075    | 0031.3      | 015.6         | 49.91           |             |
| 320.0                | 001.3500    | 0042.0      | 012.7         | 185.9                | 000.5008    | 0031.2      | 015.3         | 50.02           |             |
| 321.0                | 001.3500    | 0042.1      | 012.8         | 185.3                | 000.4891    | 0030.9      | 015.2         | 50.00           |             |
| 322.0                | 001.3500    | 0041.1      | 012.6         | 184.3                | 000.4681    | 0031.5      | 015.1         | 50.00           |             |
| 323.0                | 001.3500    | 0038.9      | 012.3         | 182.9                | 000.4409    | 0032.3      | 015.2         | 49.84           |             |
| 324.0                | 001.3500    | 0037.6      | 012.1         | 181.8                | 000.4180    | 0033.9      | 015.3         | 49.99           |             |
| 325.0                | 001.3500    | 0036.8      | 012.0         | 180.9                | 000.3997    | 0034.9      | 015.2         | 50.08           |             |
| 326.0                | 001.3500    | 0035.4      | 011.7         | 179.8                | 000.3812    | 0036.1      | 015.3         | 50.13           |             |
| 327.0                | 001.3500    | 0033.2      | 011.4         | 178.5                | 000.3621    | 0037.0      | 015.5         | 49.97           |             |
| 328.0                | 001.3500    | 0031.3      | 011.1         | 177.3                | 000.3456    | 0035.9      | 015.6         | 49.37           |             |
| 329.0                | 001.3500    | 0031.1      | 011.1         | 176.6                | 000.3359    | 0035.3      | 015.5         | 49.16           |             |
| 330.0                | 001.3500    | 0031.8      | 011.2         | 176.2                | 000.3295    | 0035.1      | 015.4         | 49.17           |             |
| 331.0                | 001.3500    | 0032.2      | 011.3         | 175.6                | 000.3219    | 0034.8      | 015.2         | 49.13           |             |

|       |          |        |       |       |          |        |       |       |
|-------|----------|--------|-------|-------|----------|--------|-------|-------|
| 332.0 | 001.3500 | 0032.4 | 011.3 | 175.0 | 000.3133 | 0034.9 | 015.1 | 49.13 |
| 333.0 | 001.3500 | 0032.8 | 011.3 | 174.4 | 000.3049 | 0035.6 | 015.0 | 49.21 |
| 334.0 | 001.3500 | 0032.5 | 011.3 | 173.6 | 000.2949 | 0036.5 | 015.0 | 49.33 |
| 335.0 | 001.3500 | 0031.9 | 011.2 | 172.8 | 000.2844 | 0037.9 | 015.0 | 49.46 |
| 336.0 | 001.3500 | 0030.9 | 011.1 | 171.9 | 000.2732 | 0039.1 | 015.1 | 49.59 |
| 337.0 | 001.3500 | 0029.8 | 010.9 | 171.1 | 000.2628 | 0039.4 | 015.1 | 49.41 |
| 338.0 | 001.3500 | 0029.8 | 010.9 | 170.4 | 000.2542 | 0039.9 | 015.1 | 49.43 |
| 339.0 | 001.3500 | 0030.2 | 011.0 | 169.7 | 000.2466 | 0040.3 | 015.0 | 49.46 |
| 340.0 | 001.3500 | 0030.0 | 010.9 | 168.9 | 000.2394 | 0040.6 | 015.0 | 49.39 |
| 341.0 | 001.3500 | 0029.5 | 010.9 | 168.2 | 000.2324 | 0040.6 | 015.0 | 49.29 |
| 342.0 | 001.3500 | 0029.8 | 010.9 | 167.5 | 000.2254 | 0040.7 | 015.0 | 49.07 |
| 343.0 | 001.3500 | 0029.9 | 010.9 | 166.8 | 000.2186 | 0041.3 | 015.0 | 49.08 |
| 344.0 | 001.3500 | 0030.4 | 011.0 | 166.0 | 000.2119 | 0042.0 | 014.9 | 49.16 |
| 345.0 | 001.3500 | 0031.6 | 011.2 | 165.3 | 000.2052 | 0042.5 | 014.7 | 49.34 |
| 346.0 | 001.3500 | 0032.2 | 011.3 | 164.5 | 000.1983 | 0042.5 | 014.6 | 49.33 |
| 347.0 | 001.3500 | 0031.6 | 011.2 | 163.8 | 000.1917 | 0042.0 | 014.7 | 48.95 |
| 348.0 | 001.3500 | 0032.3 | 011.3 | 163.0 | 000.1848 | 0041.2 | 014.6 | 48.72 |
| 349.0 | 001.3500 | 0033.2 | 011.4 | 162.2 | 000.1778 | 0041.1 | 014.5 | 48.67 |
| 350.0 | 001.3500 | 0033.8 | 011.5 | 161.3 | 000.1708 | 0041.6 | 014.5 | 48.66 |
| 351.0 | 001.3500 | 0034.2 | 011.6 | 160.5 | 000.1640 | 0042.0 | 014.4 | 48.62 |
| 352.0 | 001.3500 | 0034.5 | 011.6 | 159.7 | 000.1600 | 0042.1 | 014.4 | 48.55 |
| 353.0 | 001.3500 | 0035.0 | 011.7 | 158.8 | 000.1600 | 0042.1 | 014.4 | 48.56 |
| 354.0 | 001.3500 | 0035.9 | 011.8 | 157.9 | 000.1600 | 0041.8 | 014.3 | 48.59 |
| 355.0 | 001.3500 | 0036.6 | 011.9 | 157.0 | 000.1600 | 0041.5 | 014.3 | 48.59 |
| 356.0 | 001.3500 | 0036.7 | 011.9 | 156.2 | 000.1600 | 0041.5 | 014.3 | 48.51 |
| 357.0 | 001.3500 | 0036.6 | 011.9 | 155.4 | 000.1600 | 0041.5 | 014.4 | 48.41 |
| 358.0 | 001.3500 | 0036.2 | 011.9 | 154.7 | 000.1600 | 0041.3 | 014.6 | 48.20 |
| 359.0 | 001.3500 | 0035.6 | 011.8 | 154.2 | 000.1600 | 0041.1 | 014.7 | 47.96 |
| 000.0 | 001.3500 | 0035.1 | 011.7 | 153.6 | 000.1600 | 0041.0 | 014.9 | 47.78 |
| 001.0 | 001.3500 | 0035.0 | 011.7 | 152.9 | 000.1600 | 0041.4 | 015.0 | 47.73 |
| 002.0 | 001.3500 | 0034.9 | 011.7 | 152.2 | 000.1600 | 0042.1 | 015.1 | 47.93 |
| 003.0 | 001.3500 | 0034.9 | 011.7 | 151.6 | 000.1600 | 0043.2 | 015.2 | 48.08 |
| 004.0 | 001.3500 | 0035.0 | 011.7 | 150.9 | 000.1600 | 0044.3 | 015.3 | 48.25 |
| 005.0 | 001.3500 | 0035.0 | 011.7 | 150.3 | 000.1600 | 0045.4 | 015.4 | 48.37 |
| 006.0 | 001.3500 | 0035.0 | 011.7 | 149.6 | 000.1630 | 0046.2 | 015.5 | 48.52 |
| 007.0 | 001.3500 | 0035.2 | 011.7 | 149.0 | 000.1682 | 0046.7 | 015.6 | 48.68 |
| 008.0 | 001.3500 | 0035.2 | 011.7 | 148.4 | 000.1731 | 0047.0 | 015.8 | 48.75 |
| 009.0 | 001.3500 | 0035.3 | 011.7 | 147.8 | 000.1783 | 0047.1 | 015.9 | 48.80 |
| 010.0 | 001.3500 | 0035.5 | 011.8 | 147.2 | 000.1833 | 0047.0 | 016.0 | 48.79 |
| 011.0 | 001.3500 | 0035.5 | 011.8 | 146.7 | 000.1878 | 0047.0 | 016.1 | 48.76 |
| 012.0 | 001.3500 | 0035.1 | 011.7 | 146.3 | 000.1910 | 0047.0 | 016.3 | 48.69 |
| 013.0 | 001.3500 | 0034.4 | 011.6 | 146.0 | 000.1932 | 0047.0 | 016.5 | 48.56 |
| 014.0 | 001.3500 | 0033.6 | 011.5 | 145.9 | 000.1943 | 0047.0 | 016.8 | 48.37 |
| 015.0 | 001.3500 | 0032.4 | 011.3 | 145.9 | 000.1943 | 0047.0 | 017.0 | 48.14 |
| 016.0 | 001.3500 | 0031.3 | 011.1 | 145.9 | 000.1943 | 0047.0 | 017.3 | 47.92 |
| 017.0 | 001.3500 | 0030.7 | 011.0 | 145.8 | 000.1958 | 0047.0 | 017.5 | 47.78 |
| 018.0 | 001.3500 | 0030.7 | 011.0 | 145.3 | 000.1994 | 0047.0 | 017.7 | 47.73 |
| 019.0 | 001.3500 | 0030.9 | 011.1 | 144.9 | 000.2033 | 0047.0 | 017.8 | 47.68 |
| 020.0 | 001.3500 | 0030.9 | 011.1 | 144.6 | 000.2065 | 0047.0 | 017.9 | 47.62 |
| 021.0 | 001.3500 | 0030.7 | 011.0 | 144.3 | 000.2089 | 0047.1 | 018.1 | 47.54 |
| 022.0 | 001.3500 | 0030.8 | 011.0 | 143.9 | 000.2123 | 0047.2 | 018.3 | 47.50 |

|       |          |        |       |  |       |          |        |       |       |
|-------|----------|--------|-------|--|-------|----------|--------|-------|-------|
| 023.0 | 001.3500 | 0031.1 | 011.1 |  | 143.5 | 000.2165 | 0047.2 | 018.4 | 47.47 |
| 024.0 | 001.3500 | 0031.2 | 011.1 |  | 143.2 | 000.2195 | 0047.3 | 018.6 | 47.40 |
| 025.0 | 001.3500 | 0030.8 | 011.0 |  | 143.0 | 000.2206 | 0047.3 | 018.8 | 47.27 |
| 026.0 | 001.3500 | 0030.0 | 010.9 |  | 143.1 | 000.2202 | 0047.3 | 019.0 | 47.07 |
| 027.0 | 001.3500 | 0029.1 | 010.9 |  | 142.8 | 000.2226 | 0047.3 | 019.2 | 46.98 |
| 028.0 | 001.3500 | 0028.5 | 010.9 |  | 142.6 | 000.2249 | 0047.4 | 019.3 | 46.89 |
| 029.0 | 001.3500 | 0028.1 | 010.9 |  | 142.3 | 000.2271 | 0047.5 | 019.5 | 46.81 |
| 030.0 | 001.3500 | 0027.4 | 010.9 |  | 142.1 | 000.2291 | 0047.6 | 019.7 | 46.73 |
| 031.0 | 001.3500 | 0026.6 | 010.9 |  | 141.9 | 000.2311 | 0047.8 | 019.9 | 46.65 |
| 032.0 | 001.3500 | 0026.1 | 010.9 |  | 141.7 | 000.2329 | 0047.9 | 020.1 | 46.56 |
| 033.0 | 001.3500 | 0026.2 | 010.9 |  | 141.6 | 000.2346 | 0048.0 | 020.2 | 46.46 |
| 034.0 | 001.3500 | 0026.4 | 010.9 |  | 141.4 | 000.2362 | 0048.0 | 020.4 | 46.35 |
| 035.0 | 001.3500 | 0026.6 | 010.9 |  | 141.2 | 000.2378 | 0048.1 | 020.6 | 46.24 |
| 036.0 | 001.3500 | 0026.5 | 010.9 |  | 141.1 | 000.2391 | 0048.1 | 020.8 | 46.13 |
| 037.0 | 001.3500 | 0026.4 | 010.9 |  | 141.0 | 000.2404 | 0048.2 | 021.0 | 46.02 |
| 038.0 | 001.3500 | 0026.3 | 010.9 |  | 140.8 | 000.2416 | 0048.2 | 021.2 | 45.90 |
| 039.0 | 001.3500 | 0026.7 | 010.9 |  | 140.7 | 000.2427 | 0048.3 | 021.3 | 45.78 |
| 040.0 | 001.3500 | 0027.6 | 010.9 |  | 140.6 | 000.2437 | 0048.3 | 021.5 | 45.65 |
| 041.0 | 001.3500 | 0029.0 | 010.9 |  | 140.5 | 000.2446 | 0048.3 | 021.7 | 45.52 |
| 042.0 | 001.3500 | 0030.8 | 011.1 |  | 140.1 | 000.2486 | 0048.3 | 021.9 | 45.46 |
| 043.0 | 001.3500 | 0032.3 | 011.3 |  | 139.5 | 000.2559 | 0048.4 | 022.0 | 45.48 |
| 044.0 | 001.3500 | 0032.8 | 011.3 |  | 139.3 | 000.2588 | 0048.4 | 022.2 | 45.37 |

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