

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939084

Luminaire Tested: **GALN-SB1C-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

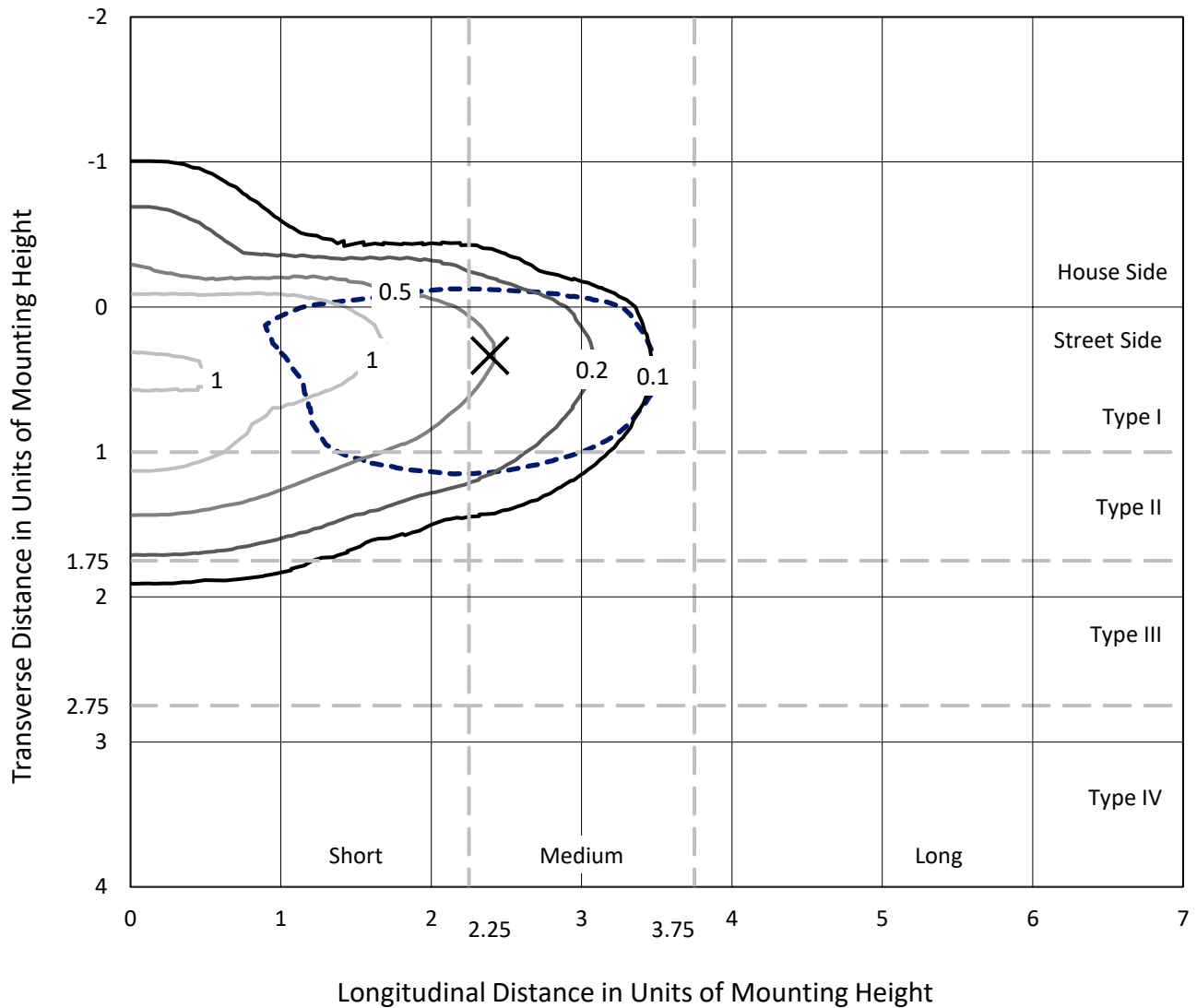
Lumens per Lamp: N/A  
Luminaire Lumens: 5471 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

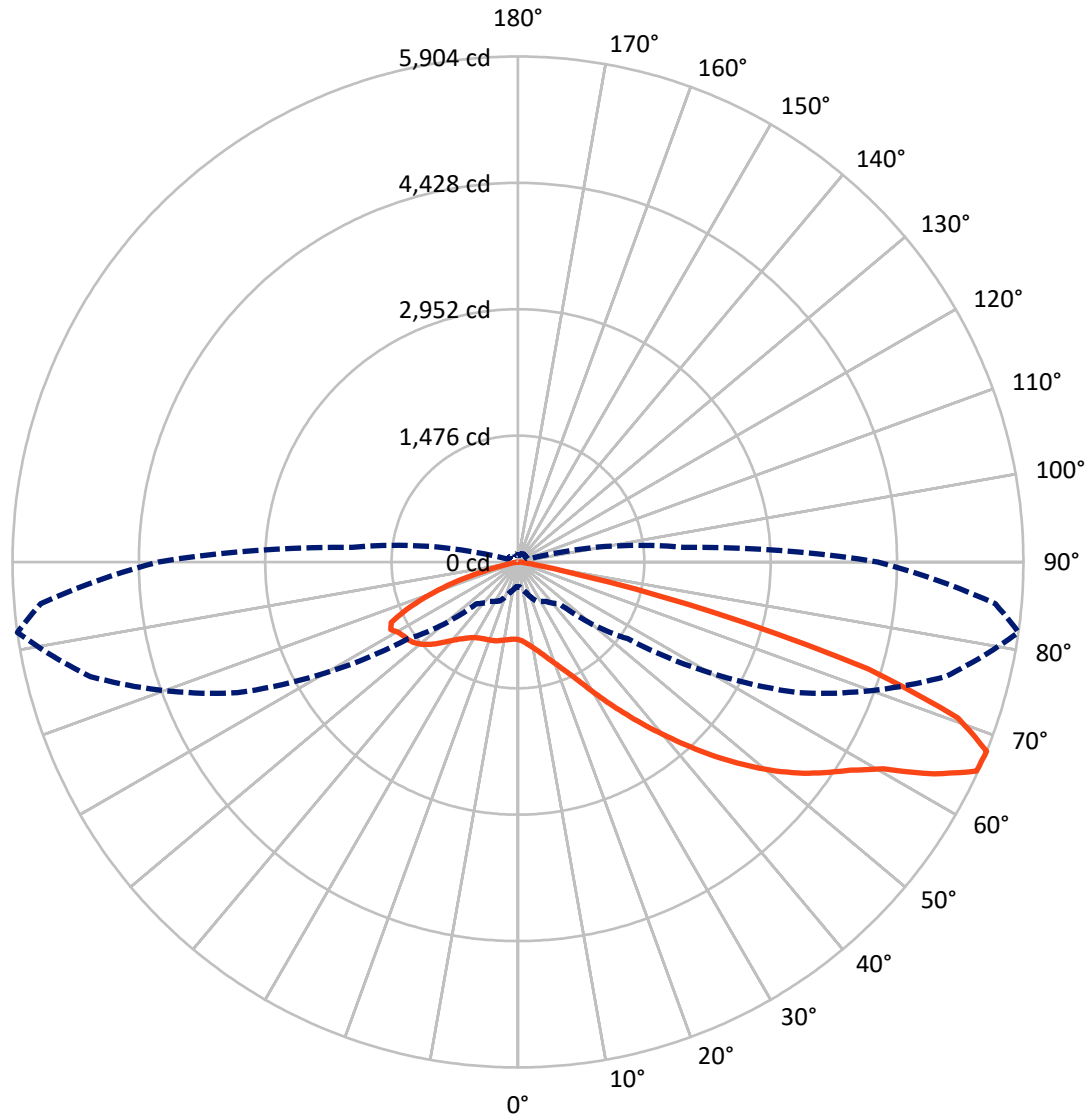
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 991.0    | 0.0    | 991.0  |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 4480.0   | 0.0    | 4480.0 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 5471.0   | 0.0    | 5471.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.8   | 1.5       |
| 10°-20°   | 209.8  | 3.8       |
| 20°-30°   | 336.1  | 6.1       |
| 30°-40°   | 594.3  | 10.9      |
| 40°-50°   | 1041.3 | 19.0      |
| 50°-60°   | 1388.8 | 25.4      |
| 60°-70°   | 1292.9 | 23.6      |
| 70°-80°   | 496.2  | 9.1       |
| 80°-90°   | 30.8   | 0.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5471.0 | 100.0     |
| 0°-180°   | 5471.0 | 100.0     |

**Coefficient of Utilization**



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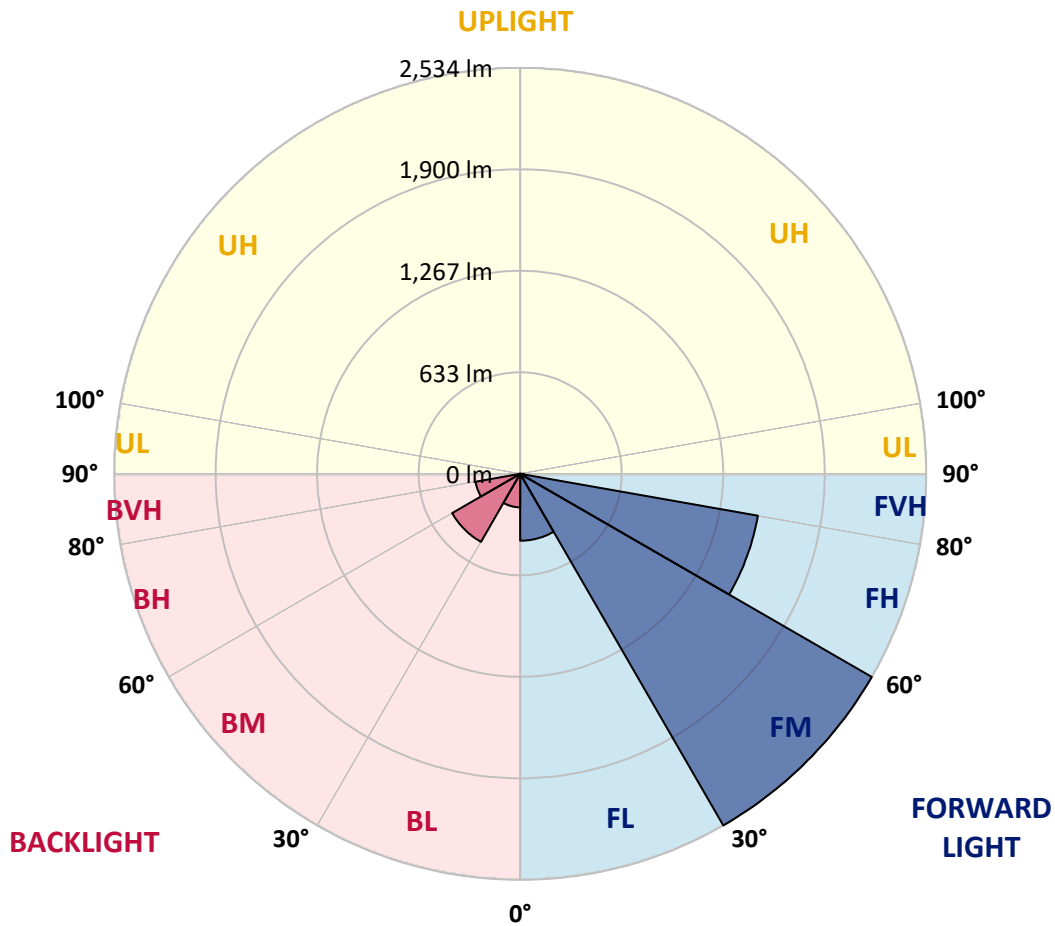
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 417.4  | 7.6       |                         |      |         |
| FM (30°-60°)   | 2533.9 | 46.3      |                         |      |         |
| FH (60°-80°)   | 1506.2 | 27.5      |                         |      | G1/1800 |
| FVH (80°-90°)  | 22.4   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 209.3  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 490.5  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 282.9  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 8.4    | 0.2       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  | 906.4  |
| 2.5°  | 958.0  | 963.5  | 960.3  | 958.7  | 956.0  | 952.1  | 948.9  | 939.1  | 928.8  | 922.1  |
| 5°    | 977.3  | 982.8  | 982.4  | 984.0  | 985.9  | 987.1  | 986.3  | 975.3  | 960.7  | 949.3  |
| 7.5°  | 960.7  | 967.0  | 972.1  | 980.0  | 993.8  | 1008.4 | 1015.5 | 1013.1 | 998.1  | 982.4  |
| 10°   | 913.8  | 920.5  | 932.8  | 951.3  | 980.4  | 1011.9 | 1038.3 | 1050.5 | 1041.1 | 1023.7 |
| 12.5° | 828.0  | 834.7  | 858.7  | 898.9  | 947.7  | 1002.5 | 1052.9 | 1085.6 | 1087.9 | 1070.6 |
| 15°   | 731.5  | 738.2  | 763.8  | 814.2  | 888.6  | 976.5  | 1060.8 | 1122.6 | 1143.5 | 1128.5 |
| 17.5° | 671.6  | 677.5  | 696.8  | 737.4  | 815.0  | 924.5  | 1058.0 | 1162.0 | 1209.7 | 1197.8 |
| 20°   | 653.5  | 658.6  | 667.7  | 696.0  | 760.6  | 870.5  | 1039.9 | 1199.0 | 1281.0 | 1274.3 |
| 22.5° | 672.8  | 677.5  | 680.3  | 692.9  | 733.4  | 835.1  | 1017.0 | 1236.8 | 1363.7 | 1364.5 |
| 25°   | 717.3  | 722.0  | 718.9  | 726.7  | 744.5  | 824.0  | 1008.4 | 1281.4 | 1467.7 | 1476.3 |
| 27.5° | 790.6  | 790.9  | 783.5  | 783.1  | 785.8  | 840.6  | 1017.4 | 1329.0 | 1598.8 | 1615.0 |
| 30°   | 937.5  | 931.6  | 902.8  | 871.7  | 857.5  | 890.2  | 1042.6 | 1385.3 | 1753.6 | 1782.4 |
| 32.5° | 1164.0 | 1155.3 | 1102.5 | 1028.1 | 953.2  | 970.2  | 1087.9 | 1449.5 | 1922.2 | 1974.2 |
| 35°   | 1409.8 | 1407.4 | 1352.3 | 1241.6 | 1110.8 | 1084.0 | 1161.6 | 1533.8 | 2106.2 | 2188.9 |
| 37.5° | 1638.2 | 1637.0 | 1605.5 | 1475.1 | 1316.0 | 1242.7 | 1279.8 | 1644.1 | 2303.1 | 2422.9 |
| 40°   | 1847.0 | 1850.5 | 1819.0 | 1702.4 | 1542.1 | 1446.4 | 1440.5 | 1780.4 | 2522.1 | 2677.7 |
| 42.5° | 2027.4 | 2031.3 | 1999.4 | 1913.2 | 1765.5 | 1671.7 | 1637.8 | 1947.4 | 2736.0 | 2951.5 |
| 45°   | 2149.9 | 2174.3 | 2169.6 | 2100.7 | 1994.7 | 1897.4 | 1875.0 | 2157.0 | 2979.8 | 3241.8 |
| 47.5° | 2184.6 | 2207.0 | 2242.5 | 2251.9 | 2187.3 | 2091.6 | 2118.4 | 2409.5 | 3226.4 | 3532.5 |
| 50°   | 2099.1 | 2120.0 | 2193.6 | 2291.7 | 2336.6 | 2307.1 | 2355.1 | 2680.1 | 3478.9 | 3822.4 |
| 52.5° | 1930.5 | 1951.8 | 2044.7 | 2199.9 | 2383.1 | 2476.0 | 2592.6 | 2946.8 | 3723.5 | 4096.9 |
| 55°   | 1686.7 | 1709.1 | 1828.5 | 2004.2 | 2294.5 | 2545.8 | 2790.8 | 3213.0 | 3947.6 | 4343.9 |
| 57.5° | 1355.0 | 1371.6 | 1495.6 | 1741.4 | 2071.5 | 2476.4 | 2936.9 | 3503.7 | 4158.8 | 4586.5 |
| 60°   | 883.1  | 897.7  | 1041.9 | 1316.0 | 1702.0 | 2244.8 | 2966.1 | 3827.9 | 4439.2 | 4902.1 |
| 62.5° | 587.3  | 597.1  | 682.6  | 883.9  | 1198.6 | 1800.1 | 2795.5 | 4086.7 | 4850.5 | 5451.2 |
| 65°   | 403.0  | 412.8  | 498.3  | 638.5  | 774.4  | 1190.8 | 2305.1 | 4052.4 | 5223.1 | 5887.2 |
| 67.5° | 287.5  | 295.8  | 368.3  | 500.6  | 560.5  | 691.7  | 1562.6 | 3614.4 | 5169.5 | 5903.7 |
| 70°   | 206.0  | 210.7  | 270.6  | 390.0  | 445.5  | 415.6  | 868.9  | 2764.4 | 4526.3 | 5451.5 |
| 72.5° | 144.2  | 145.7  | 187.9  | 297.0  | 358.8  | 303.3  | 413.6  | 1843.0 | 3423.4 | 4278.9 |
| 75°   | 97.7   | 99.7   | 126.4  | 217.8  | 287.9  | 231.6  | 219.0  | 988.3  | 2009.7 | 2368.5 |
| 77.5° | 59.9   | 60.7   | 81.5   | 148.9  | 215.5  | 176.5  | 141.0  | 418.7  | 777.6  | 763.4  |
| 80°   | 33.9   | 33.9   | 52.0   | 92.6   | 146.9  | 113.8  | 98.9   | 178.0  | 246.2  | 216.3  |
| 82.5° | 18.9   | 19.3   | 37.8   | 57.5   | 97.3   | 67.4   | 54.4   | 82.3   | 106.4  | 94.1   |
| 85°   | 7.9    | 8.7    | 23.2   | 27.2   | 46.5   | 33.5   | 22.1   | 34.7   | 39.4   | 35.1   |
| 87.5° | 0.8    | 1.2    | 7.1    | 5.1    | 5.5    | 6.7    | 3.2    | 6.7    | 5.5    | 5.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 906.4  | 0°    | 906.4  | 906.4  | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 | 906.4 |
| 919.8  | 2.5°  | 912.3  | 906.4  | 891.4 | 874.1 | 851.2 | 840.2 | 825.2 | 815.0 | 806.3 | 807.1 |
| 942.6  | 5°    | 930.0  | 915.0  | 881.5 | 839.8 | 787.8 | 750.8 | 711.4 | 684.2 | 662.1 | 657.4 |
| 974.1  | 7.5°  | 954.4  | 930.8  | 872.1 | 796.9 | 709.0 | 642.4 | 583.0 | 544.8 | 517.6 | 508.9 |
| 1012.3 | 10°   | 985.9  | 951.7  | 859.9 | 742.9 | 616.5 | 531.8 | 468.0 | 438.0 | 419.5 | 413.2 |
| 1057.2 | 12.5° | 1022.6 | 975.7  | 843.7 | 677.1 | 521.1 | 439.6 | 399.0 | 384.1 | 378.1 | 376.2 |
| 1112.4 | 15°   | 1068.6 | 1005.6 | 819.3 | 599.1 | 440.4 | 383.3 | 365.9 | 364.0 | 364.7 | 364.0 |
| 1178.5 | 17.5° | 1123.4 | 1038.3 | 779.5 | 518.8 | 386.0 | 354.5 | 348.2 | 349.8 | 351.8 | 351.4 |
| 1252.6 | 20°   | 1183.3 | 1070.6 | 728.7 | 447.5 | 349.0 | 334.0 | 330.5 | 332.1 | 333.6 | 332.8 |
| 1338.1 | 22.5° | 1251.4 | 1105.3 | 672.4 | 391.9 | 324.2 | 315.1 | 311.2 | 311.6 | 311.6 | 310.0 |
| 1446.4 | 25°   | 1333.0 | 1143.5 | 613.3 | 352.5 | 305.3 | 298.2 | 293.5 | 291.9 | 289.5 | 284.8 |
| 1578.0 | 27.5° | 1430.2 | 1184.1 | 556.6 | 325.0 | 290.3 | 283.6 | 278.1 | 274.2 | 268.2 | 260.4 |
| 1735.9 | 30°   | 1539.7 | 1233.3 | 508.5 | 307.6 | 278.5 | 271.8 | 265.5 | 259.6 | 250.9 | 241.1 |
| 1917.5 | 32.5° | 1668.6 | 1286.1 | 473.5 | 296.2 | 267.9 | 260.8 | 253.3 | 246.2 | 236.7 | 226.9 |
| 2121.5 | 35°   | 1822.2 | 1349.9 | 453.0 | 288.3 | 259.6 | 250.1 | 241.9 | 234.0 | 226.9 | 218.2 |
| 2343.3 | 37.5° | 1988.8 | 1417.6 | 446.7 | 284.4 | 254.1 | 239.5 | 230.0 | 224.5 | 223.7 | 218.6 |
| 2583.2 | 40°   | 2171.2 | 1498.0 | 451.4 | 282.0 | 248.2 | 229.2 | 219.0 | 217.8 | 219.8 | 210.7 |
| 2839.6 | 42.5° | 2364.2 | 1593.3 | 459.3 | 279.3 | 239.9 | 219.0 | 209.2 | 209.2 | 207.6 | 195.0 |
| 3110.6 | 45°   | 2572.9 | 1703.2 | 467.2 | 272.6 | 230.0 | 208.8 | 201.3 | 198.5 | 191.8 | 179.6 |
| 3383.2 | 47.5° | 2783.3 | 1815.1 | 473.1 | 260.4 | 218.2 | 200.1 | 193.4 | 187.1 | 177.3 | 166.2 |
| 3650.6 | 50°   | 2983.0 | 1915.5 | 466.8 | 242.2 | 204.8 | 191.8 | 184.7 | 176.1 | 165.4 | 158.0 |
| 3903.9 | 52.5° | 3161.4 | 2002.6 | 440.0 | 221.0 | 190.6 | 183.2 | 176.9 | 167.8 | 159.1 | 151.3 |
| 4132.4 | 55°   | 3316.6 | 2073.1 | 392.7 | 200.9 | 178.0 | 175.7 | 169.4 | 158.0 | 146.1 | 139.4 |
| 4358.9 | 57.5° | 3465.5 | 2126.7 | 333.6 | 184.3 | 166.6 | 167.4 | 158.0 | 147.7 | 136.7 | 129.6 |
| 4664.1 | 60°   | 3663.6 | 2198.3 | 273.8 | 169.0 | 154.4 | 156.8 | 146.5 | 139.0 | 125.3 | 116.2 |
| 5187.6 | 62.5° | 3980.3 | 2309.8 | 217.4 | 150.1 | 140.2 | 141.0 | 136.7 | 127.6 | 111.1 | 100.4 |
| 5575.6 | 65°   | 4231.6 | 2268.9 | 171.3 | 129.6 | 124.1 | 125.3 | 125.3 | 115.4 | 97.7  | 85.5  |
| 5596.5 | 67.5° | 4203.3 | 1942.7 | 136.7 | 109.5 | 108.7 | 109.5 | 112.3 | 104.0 | 86.7  | 76.8  |
| 5170.3 | 70°   | 3872.0 | 1545.3 | 109.5 | 91.0  | 94.5  | 92.6  | 100.4 | 94.9  | 78.0  | 68.1  |
| 4008.3 | 72.5° | 3159.5 | 1113.2 | 83.5  | 75.2  | 72.5  | 75.6  | 90.6  | 85.5  | 65.0  | 54.0  |
| 2123.1 | 75°   | 1846.2 | 594.0  | 62.2  | 59.5  | 52.4  | 63.0  | 80.4  | 72.9  | 49.6  | 39.8  |
| 650.7  | 77.5° | 601.1  | 207.2  | 45.7  | 43.7  | 39.0  | 50.8  | 68.5  | 61.4  | 40.6  | 31.5  |
| 190.6  | 80°   | 161.1  | 62.6   | 31.1  | 28.8  | 25.2  | 37.8  | 54.4  | 48.8  | 29.1  | 20.5  |
| 81.9   | 82.5° | 64.6   | 26.4   | 18.1  | 16.1  | 13.8  | 26.0  | 42.9  | 39.4  | 21.7  | 13.0  |
| 25.6   | 85°   | 20.9   | 8.7    | 6.7   | 5.1   | 6.3   | 16.1  | 25.6  | 26.8  | 15.4  | 6.7   |
| 3.9    | 87.5° | 2.8    | 1.2    | 1.2   | 1.6   | 1.2   | 2.8   | 7.9   | 7.5   | 4.3   | 0.8   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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|             |
|-------------|
| <u>180°</u> |
| 906.4       |
| 799.2       |
| 646.8       |
| 500.3       |
| 408.5       |
| 375.0       |
| 363.6       |
| 350.6       |
| 332.5       |
| 309.2       |
| 284.0       |
| 259.6       |
| 240.3       |
| 227.3       |
| 217.4       |
| 218.2       |
| 211.1       |
| 195.0       |
| 179.2       |
| 165.8       |
| 156.8       |
| 150.5       |
| 138.7       |
| 128.8       |
| 115.0       |
| 99.7        |
| 84.3        |
| 75.2        |
| 67.0        |
| 52.8        |
| 38.6        |
| 30.3        |
| 20.1        |
| 13.0        |
| 5.1         |
| 0.0         |
| 0.0         |

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