

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: P947512

Luminaire Tested: **GALN-SB2D-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

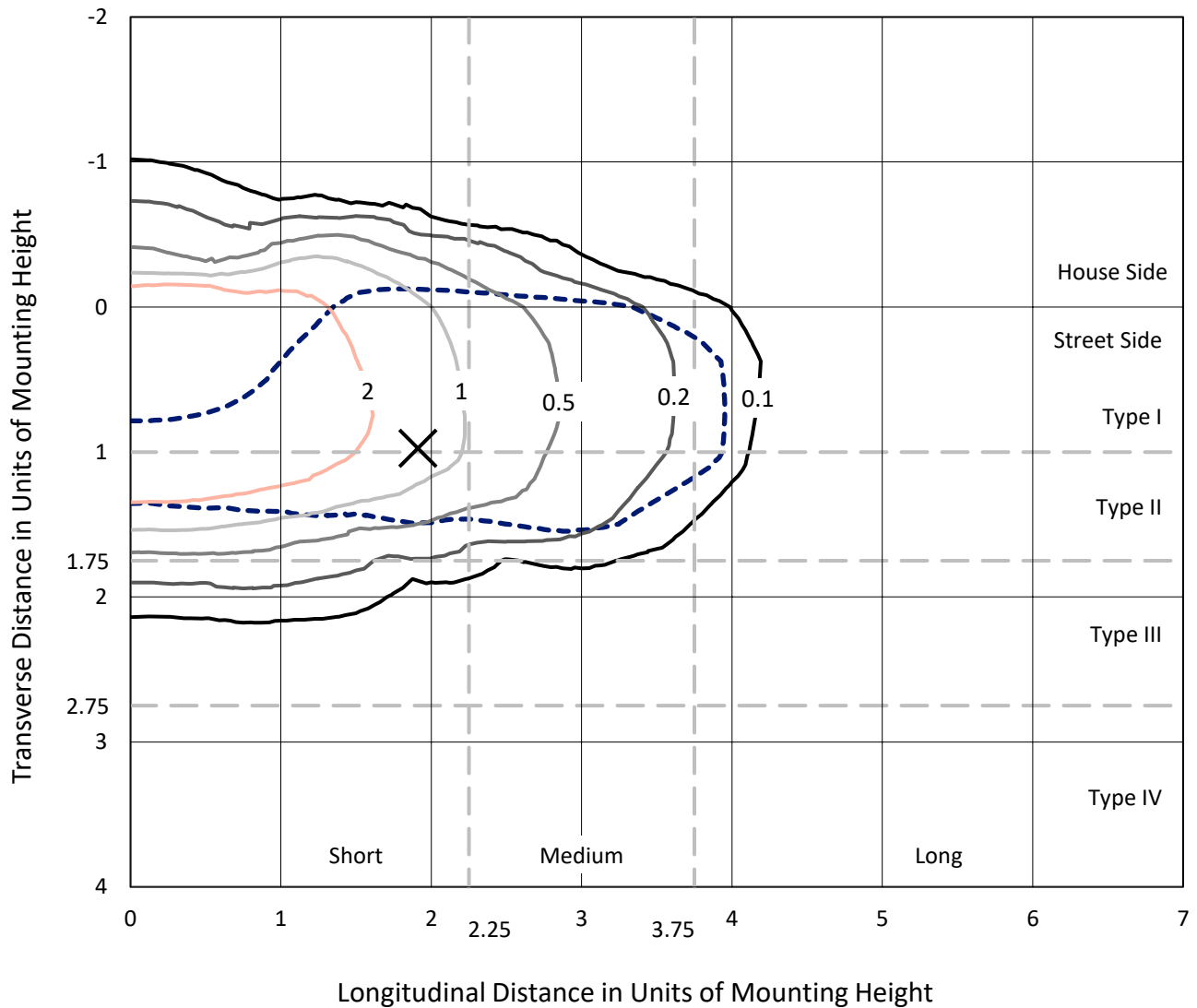
Lumens per Lamp: N/A  
Luminaire Lumens: 13975 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

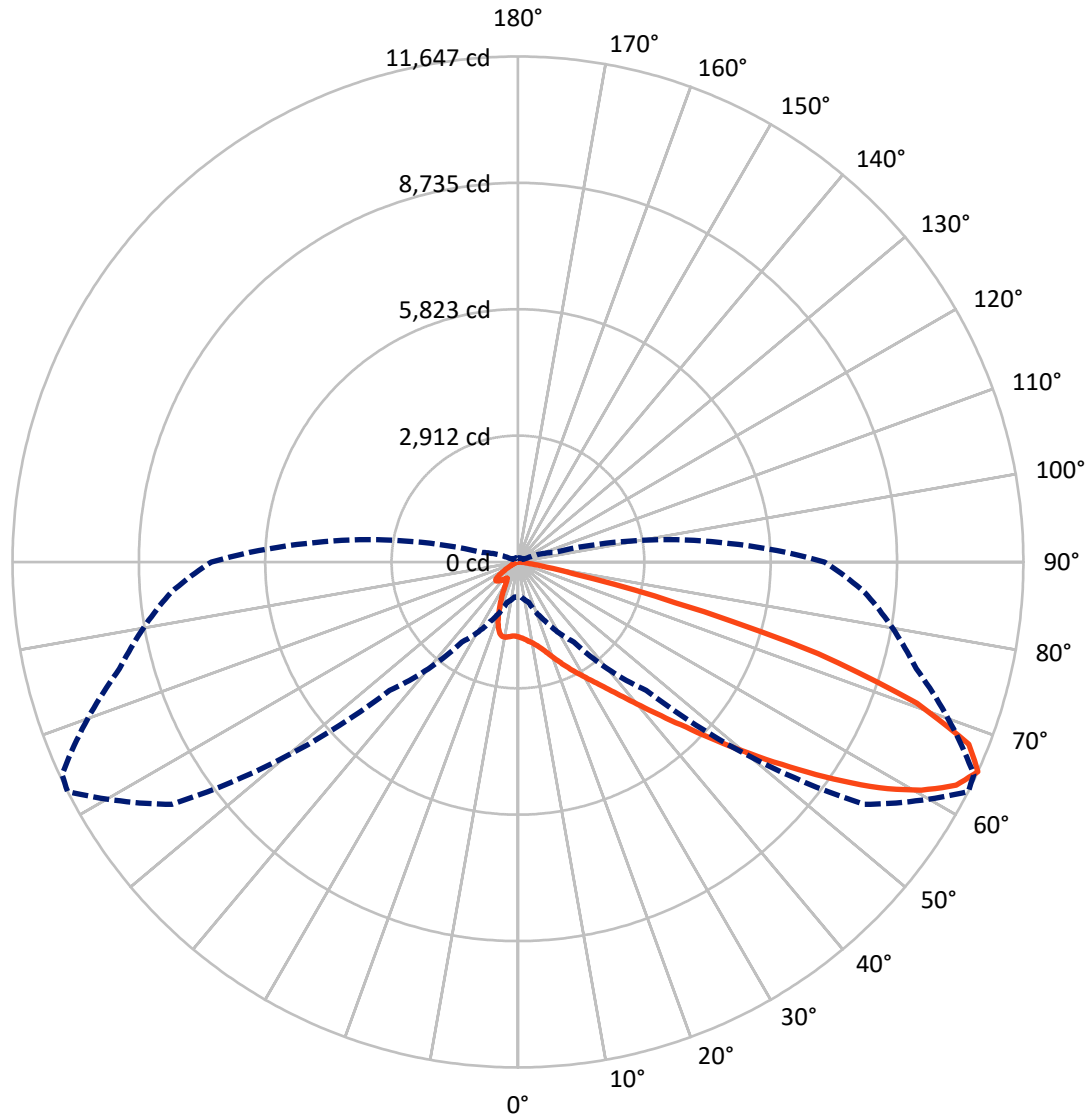
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2054.2   | 0.0    | 2054.2  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 11920.8  | 0.0    | 11920.8 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 13975.0  | 0.0    | 13975.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 162.5   | 1.2       |
| 10°-20°   | 450.9   | 3.2       |
| 20°-30°   | 785.1   | 5.6       |
| 30°-40°   | 1415.1  | 10.1      |
| 40°-50°   | 2806.6  | 20.1      |
| 50°-60°   | 3823.1  | 27.4      |
| 60°-70°   | 3051.5  | 21.8      |
| 70°-80°   | 1380.9  | 9.9       |
| 80°-90°   | 99.3    | 0.7       |
| 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°    | 13975.0 | 100.0     |
| 0°-180°   | 13975.0 | 100.0     |

**Coefficient of Utilization**



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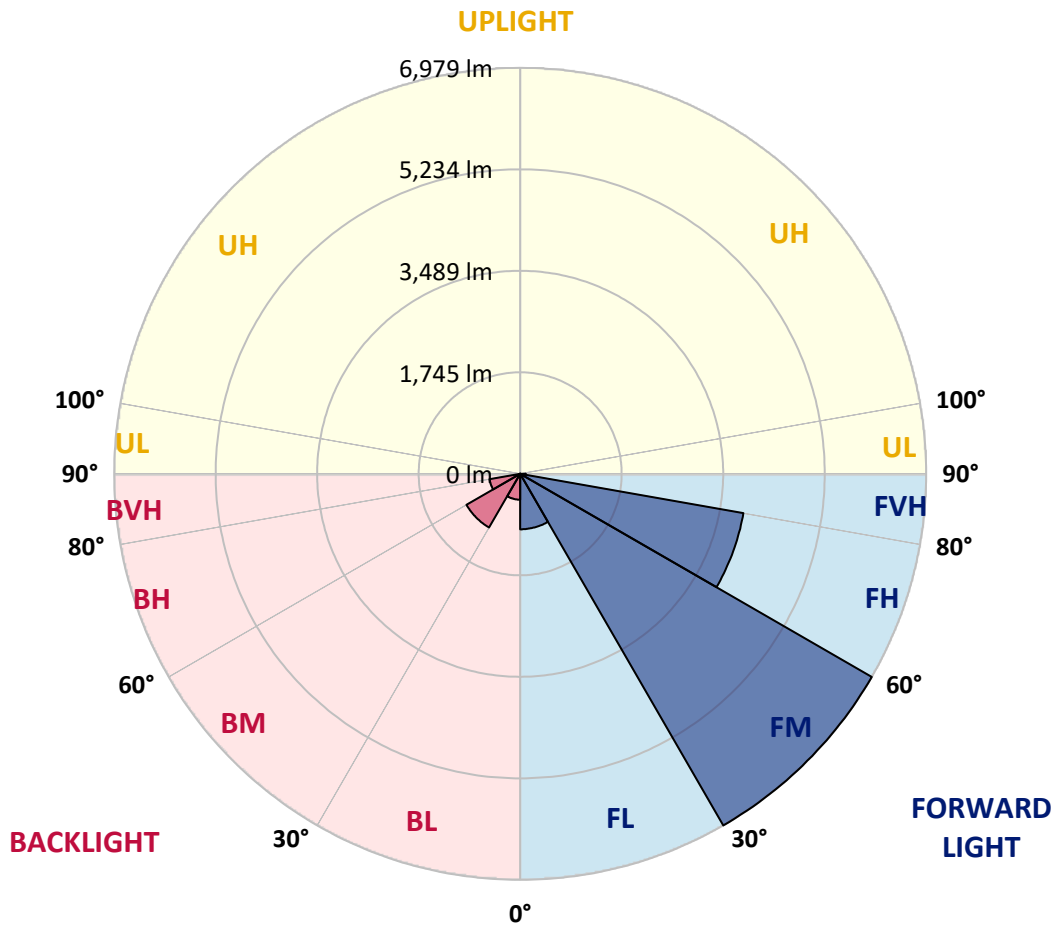
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 954.0  | 6.8       |                         |      |         |
| FM (30°-60°)   | 6978.8 | 49.9      |                         |      |         |
| FH (60°-80°)   | 3896.2 | 27.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 91.9   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 444.6  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 1066.0 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 536.3  | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.4    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 63°     | 65°     | 75°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8  | 1724.8  | 1724.8  | 1724.8  | 1724.8 |
| 2.5°  | 1765.2 | 1760.4 | 1767.1 | 1764.2 | 1762.3 | 1758.4  | 1756.5  | 1754.6  | 1750.7  | 1747.9 |
| 5°    | 1770.0 | 1767.1 | 1773.8 | 1779.6 | 1785.3 | 1791.1  | 1794.0  | 1797.8  | 1794.0  | 1786.3 |
| 7.5°  | 1729.6 | 1727.7 | 1742.1 | 1759.4 | 1785.3 | 1807.5  | 1831.5  | 1845.0  | 1845.9  | 1843.0 |
| 10°   | 1726.7 | 1721.9 | 1736.3 | 1757.5 | 1791.1 | 1830.5  | 1872.8  | 1901.7  | 1905.5  | 1918.0 |
| 12.5° | 1771.9 | 1767.1 | 1787.3 | 1810.3 | 1845.0 | 1886.3  | 1938.2  | 1978.6  | 1984.4  | 2001.7 |
| 15°   | 1847.8 | 1841.1 | 1864.2 | 1894.0 | 1938.2 | 1985.3  | 2040.1  | 2076.7  | 2081.5  | 2102.6 |
| 17.5° | 1936.3 | 1929.6 | 1956.5 | 1988.2 | 2036.3 | 2100.7  | 2164.1  | 2204.5  | 2210.3  | 2223.8 |
| 20°   | 2049.7 | 2041.1 | 2062.2 | 2091.1 | 2142.0 | 2218.9  | 2294.9  | 2352.6  | 2351.6  | 2351.6 |
| 22.5° | 2181.5 | 2168.0 | 2186.3 | 2209.3 | 2257.4 | 2350.7  | 2451.6  | 2519.9  | 2519.9  | 2492.9 |
| 25°   | 2322.8 | 2309.3 | 2329.5 | 2350.7 | 2393.0 | 2498.7  | 2617.0  | 2701.6  | 2705.4  | 2659.3 |
| 27.5° | 2499.7 | 2482.4 | 2497.8 | 2522.8 | 2547.8 | 2655.4  | 2795.8  | 2893.9  | 2895.8  | 2824.6 |
| 30°   | 2840.0 | 2791.0 | 2742.9 | 2716.0 | 2727.5 | 2834.3  | 2984.2  | 3092.9  | 3102.5  | 3004.4 |
| 32.5° | 3463.0 | 3453.4 | 3284.2 | 3063.1 | 2947.7 | 3026.5  | 3194.8  | 3325.5  | 3331.3  | 3205.4 |
| 35°   | 4431.2 | 4419.6 | 4147.5 | 3726.4 | 3350.5 | 3284.2  | 3450.5  | 3605.3  | 3601.5  | 3459.2 |
| 37.5° | 5586.8 | 5576.2 | 5217.6 | 4654.2 | 4045.6 | 3673.6  | 3780.3  | 3942.8  | 3966.8  | 3780.3 |
| 40°   | 6574.2 | 6534.7 | 6307.8 | 5764.6 | 4968.6 | 4319.6  | 4249.5  | 4357.1  | 4382.1  | 4161.0 |
| 42.5° | 7322.1 | 7288.5 | 7173.1 | 6833.7 | 6085.8 | 5275.3  | 4802.3  | 4843.6  | 4871.5  | 4606.1 |
| 45°   | 7709.6 | 7701.9 | 7748.0 | 7716.3 | 7224.1 | 6448.2  | 5592.6  | 5420.5  | 5431.0  | 5099.3 |
| 47.5° | 7764.4 | 7760.5 | 7971.1 | 8269.1 | 8202.8 | 7771.1  | 6606.8  | 6139.6  | 6102.1  | 5656.0 |
| 50°   | 7441.4 | 7433.7 | 7837.5 | 8396.0 | 8856.6 | 8882.5  | 7758.6  | 6950.1  | 6867.4  | 6231.9 |
| 52.5° | 6409.8 | 6407.8 | 7071.2 | 8000.9 | 9086.3 | 9855.5  | 8896.9  | 7840.3  | 7701.9  | 6841.4 |
| 55°   | 4932.1 | 4967.6 | 5728.1 | 6827.0 | 8667.2 | 10323.7 | 9918.9  | 8828.7  | 8616.2  | 7454.8 |
| 57.5° | 3493.8 | 3545.7 | 4297.5 | 5276.2 | 7367.3 | 10046.8 | 10610.2 | 9818.9  | 9590.1  | 8066.3 |
| 60°   | 1876.7 | 1922.8 | 2675.6 | 3843.7 | 5481.0 | 9014.2  | 10974.6 | 10678.4 | 10462.1 | 8647.0 |
| 62.5° | 1118.1 | 1133.5 | 1445.0 | 2481.4 | 3707.2 | 6886.6  | 10819.8 | 11333.2 | 11155.3 | 9134.4 |
| 65°   | 802.8  | 805.7  | 962.4  | 1515.2 | 2250.7 | 4184.1  | 9734.3  | 11646.6 | 11591.8 | 9501.7 |
| 67.5° | 675.9  | 674.0  | 739.3  | 1006.6 | 1533.5 | 2095.9  | 7460.6  | 11203.4 | 11436.0 | 9734.3 |
| 70°   | 579.7  | 582.6  | 659.5  | 737.4  | 1152.7 | 1186.4  | 3709.1  | 9754.5  | 10250.6 | 9795.9 |
| 72.5° | 431.7  | 441.3  | 512.4  | 672.0  | 870.1  | 816.2   | 1280.6  | 7232.7  | 8129.7  | 9229.6 |
| 75°   | 304.8  | 309.6  | 360.5  | 565.3  | 649.0  | 594.2   | 653.8   | 3738.9  | 4888.8  | 7076.0 |
| 77.5° | 234.6  | 243.2  | 273.0  | 395.1  | 639.3  | 417.3   | 399.9   | 1294.1  | 1988.2  | 4274.5 |
| 80°   | 126.9  | 142.3  | 197.1  | 285.5  | 449.0  | 295.2   | 198.1   | 515.3   | 674.0   | 1998.8 |
| 82.5° | 65.4   | 73.1   | 137.5  | 205.7  | 255.7  | 257.7   | 98.1    | 214.4   | 277.8   | 617.2  |
| 85°   | 26.0   | 31.7   | 92.3   | 113.4  | 131.7  | 126.9   | 44.2    | 86.5    | 100.0   | 171.1  |
| 87.5° | 5.8    | 9.6    | 33.6   | 26.0   | 25.0   | 26.9    | 10.6    | 20.2    | 19.2    | 20.2   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1724.8 | 0°    | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 | 1724.8 |
| 1736.3 | 2.5°  | 1735.4 | 1731.5 | 1720.9 | 1709.4 | 1695.9 | 1688.2 | 1683.4 | 1682.5 | 1675.7 | 1670.9 |
| 1774.8 | 5°    | 1764.2 | 1760.4 | 1740.2 | 1716.1 | 1690.2 | 1670.0 | 1650.8 | 1633.4 | 1608.4 | 1603.6 |
| 1830.5 | 7.5°  | 1821.9 | 1811.3 | 1778.6 | 1745.9 | 1696.9 | 1638.3 | 1567.1 | 1485.4 | 1412.3 | 1390.2 |
| 1904.6 | 10°   | 1893.0 | 1878.6 | 1837.3 | 1779.6 | 1670.9 | 1511.3 | 1339.3 | 1179.7 | 1052.7 | 1017.2 |
| 1992.1 | 12.5° | 1973.8 | 1961.3 | 1906.5 | 1799.8 | 1562.3 | 1272.9 | 1009.5 | 811.4  | 688.4  | 657.6  |
| 2085.3 | 15°   | 2069.9 | 2051.7 | 1975.7 | 1769.0 | 1368.1 | 967.2  | 693.2  | 575.9  | 531.7  | 525.9  |
| 2192.0 | 17.5° | 2171.8 | 2142.0 | 2037.2 | 1658.4 | 1106.6 | 687.4  | 535.5  | 501.9  | 482.6  | 476.9  |
| 2299.7 | 20°   | 2265.1 | 2226.6 | 2073.8 | 1491.2 | 826.8  | 535.5  | 479.7  | 457.6  | 440.3  | 433.6  |
| 2407.4 | 22.5° | 2358.4 | 2303.6 | 2073.8 | 1263.3 | 620.1  | 474.9  | 440.3  | 420.1  | 399.9  | 391.3  |
| 2522.8 | 25°   | 2455.5 | 2382.4 | 2037.2 | 1009.5 | 499.0  | 435.5  | 402.8  | 380.7  | 363.4  | 352.8  |
| 2632.4 | 27.5° | 2549.7 | 2448.7 | 1953.6 | 769.1  | 444.2  | 400.9  | 368.2  | 347.1  | 330.7  | 323.0  |
| 2751.6 | 30°   | 2639.1 | 2514.1 | 1836.3 | 583.6  | 408.6  | 367.3  | 336.5  | 318.2  | 301.9  | 294.2  |
| 2906.4 | 32.5° | 2760.2 | 2596.8 | 1711.3 | 478.8  | 377.8  | 335.5  | 307.7  | 290.3  | 275.9  | 270.2  |
| 3107.3 | 35°   | 2928.5 | 2718.9 | 1603.6 | 470.1  | 351.9  | 309.6  | 281.7  | 265.4  | 250.9  | 246.1  |
| 3366.9 | 37.5° | 3166.9 | 2916.0 | 1546.9 | 527.8  | 330.7  | 286.5  | 260.5  | 243.2  | 229.8  | 225.9  |
| 3696.6 | 40°   | 3461.1 | 3183.2 | 1577.7 | 585.5  | 316.3  | 266.3  | 241.3  | 224.0  | 212.5  | 207.7  |
| 4075.4 | 42.5° | 3810.1 | 3513.0 | 1747.9 | 629.7  | 306.7  | 249.0  | 223.0  | 203.8  | 196.1  | 194.2  |
| 4505.2 | 45°   | 4211.0 | 3875.5 | 2008.4 | 676.8  | 291.3  | 232.7  | 204.8  | 190.4  | 184.6  | 183.6  |
| 4972.4 | 47.5° | 4666.7 | 4273.5 | 2310.3 | 735.5  | 275.9  | 217.3  | 190.4  | 180.7  | 175.9  | 174.0  |
| 5459.9 | 50°   | 5118.6 | 4674.4 | 2620.8 | 768.2  | 263.4  | 202.9  | 178.8  | 171.1  | 167.3  | 166.3  |
| 5975.2 | 52.5° | 5591.6 | 5086.8 | 2871.7 | 737.4  | 252.9  | 191.3  | 169.2  | 163.4  | 159.6  | 158.6  |
| 6450.1 | 55°   | 6042.5 | 5420.5 | 2915.0 | 625.9  | 231.7  | 179.8  | 158.6  | 155.7  | 150.9  | 150.9  |
| 6931.8 | 57.5° | 6430.9 | 5587.7 | 2609.3 | 459.6  | 210.5  | 162.5  | 148.1  | 145.2  | 141.3  | 140.4  |
| 7366.4 | 60°   | 6787.6 | 5539.7 | 2014.2 | 309.6  | 187.5  | 145.2  | 134.6  | 132.7  | 128.8  | 124.0  |
| 7744.2 | 62.5° | 6988.5 | 5328.2 | 1377.7 | 201.9  | 164.4  | 126.9  | 119.2  | 118.3  | 109.6  | 100.0  |
| 8024.0 | 65°   | 7064.5 | 4893.6 | 859.5  | 147.1  | 137.5  | 108.6  | 102.9  | 100.9  | 88.5   | 77.9   |
| 8182.6 | 67.5° | 6998.1 | 4178.3 | 433.6  | 116.3  | 108.6  | 90.4   | 84.6   | 84.6   | 76.0   | 66.3   |
| 8173.0 | 70°   | 6732.8 | 3132.3 | 182.7  | 93.3   | 83.6   | 69.2   | 69.2   | 73.1   | 64.4   | 53.8   |
| 7749.0 | 72.5° | 6156.9 | 2107.4 | 97.1   | 71.1   | 62.5   | 49.0   | 56.7   | 59.6   | 51.0   | 40.4   |
| 6342.5 | 75°   | 4894.6 | 1285.4 | 67.3   | 52.9   | 39.4   | 34.6   | 43.3   | 45.2   | 34.6   | 26.9   |
| 4348.5 | 77.5° | 3347.6 | 738.4  | 45.2   | 33.6   | 25.0   | 20.2   | 29.8   | 27.9   | 18.3   | 12.5   |
| 1676.7 | 80°   | 1470.0 | 307.7  | 26.0   | 15.4   | 9.6    | 7.7    | 10.6   | 7.7    | 5.8    | 3.8    |
| 229.8  | 82.5° | 172.1  | 72.1   | 9.6    | 5.8    | 3.8    | 1.9    | 1.0    | 0.0    | 0.0    | 0.0    |
| 70.2   | 85°   | 35.6   | 8.7    | 4.8    | 1.9    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 12.5   | 87.5° | 6.7    | 1.9    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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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|--------|
| 180°   |
| 1724.8 |
| 1675.7 |
| 1601.7 |
| 1379.6 |
| 1003.7 |
| 649.0  |
| 520.1  |
| 474.0  |
| 429.8  |
| 386.5  |
| 349.0  |
| 323.0  |
| 295.2  |
| 270.2  |
| 246.1  |
| 225.0  |
| 206.7  |
| 194.2  |
| 182.7  |
| 174.0  |
| 166.3  |
| 158.6  |
| 150.0  |
| 139.4  |
| 123.1  |
| 98.1   |
| 76.9   |
| 65.4   |
| 52.9   |
| 40.4   |
| 26.0   |
| 13.5   |
| 3.8    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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