

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: P948122

Luminaire Tested: **GALN-SB3B-735-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3B-735-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

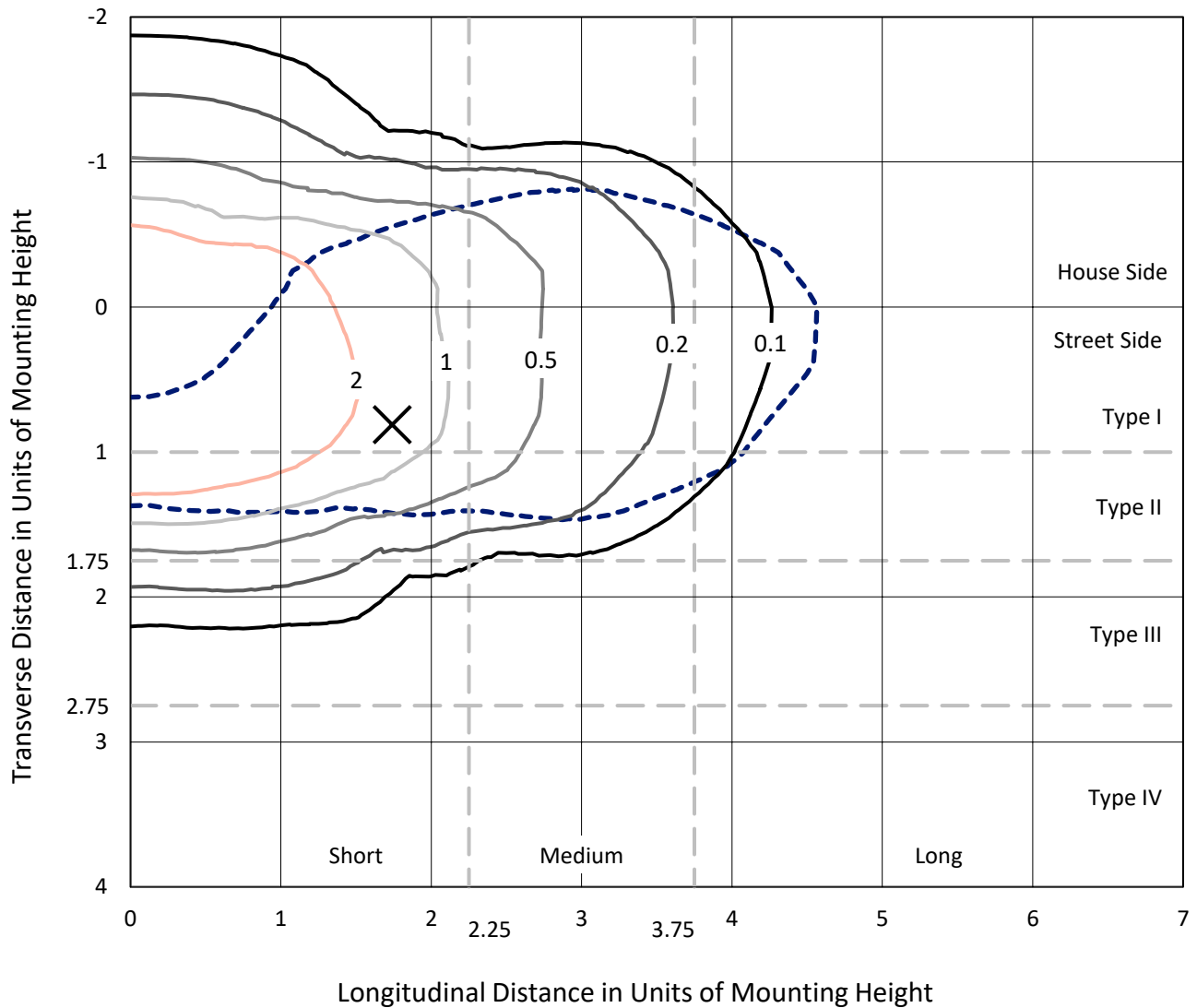
Lumens per Lamp: N/A  
Luminaire Lumens: 17122 lumens  
Efficiency: N/A  
Efficacy: 156.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

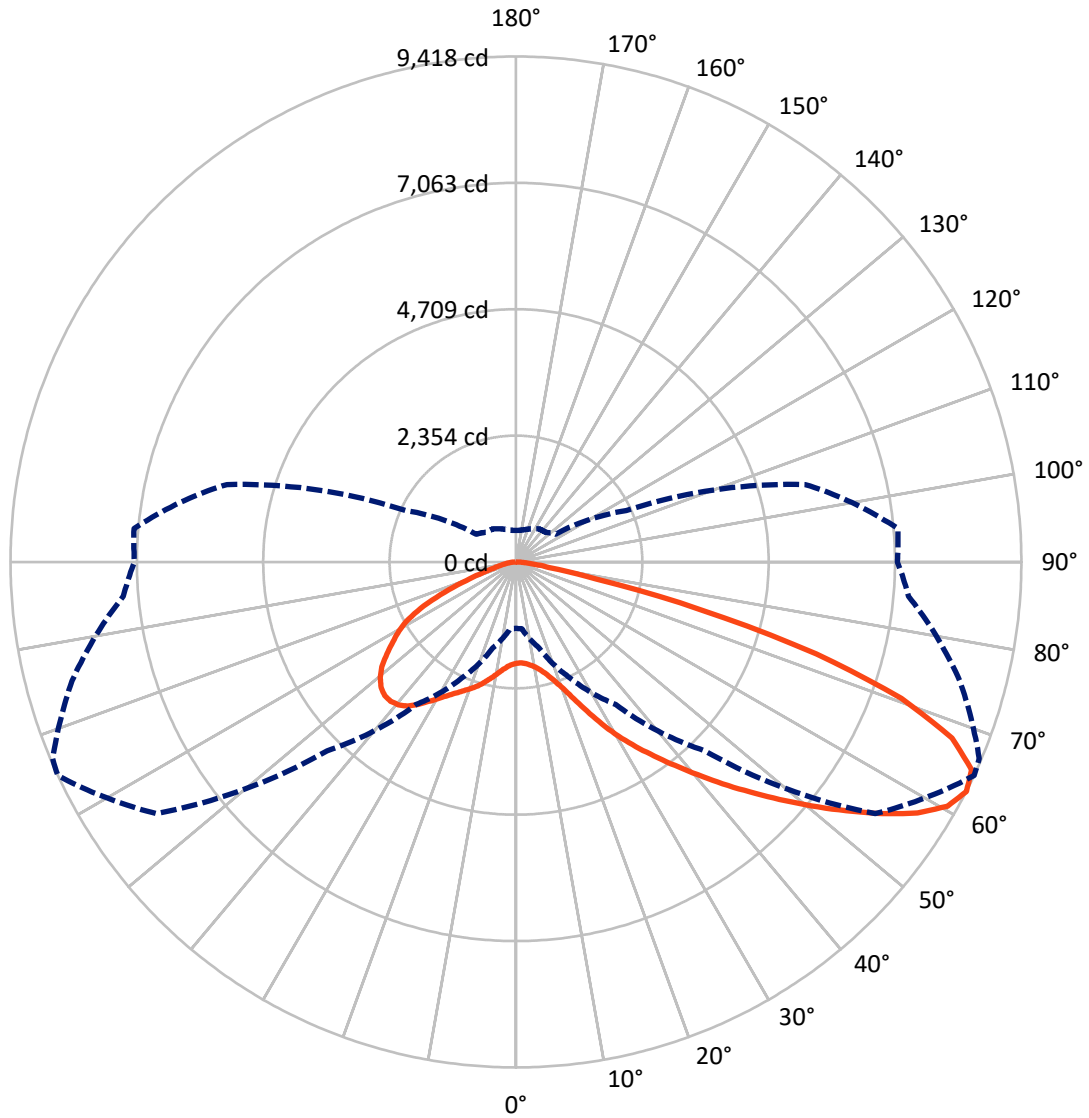
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5403.0   | 0.0    | 5403.0  |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 11719.0  | 0.0    | 11719.0 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 17122.0  | 0.0    | 17122.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 188.1   | 1.1       |
| 10°-20°   | 637.9   | 3.7       |
| 20°-30°   | 1293.4  | 7.6       |
| 30°-40°   | 2238.2  | 13.1      |
| 40°-50°   | 3387.1  | 19.8      |
| 50°-60°   | 3971.2  | 23.2      |
| 60°-70°   | 3329.3  | 19.4      |
| 70°-80°   | 1838.1  | 10.7      |
| 80°-90°   | 238.8   | 1.4       |
| 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°    | 17122.0 | 100.0     |
| 0°-180°   | 17122.0 | 100.0     |

**Coefficient of Utilization**



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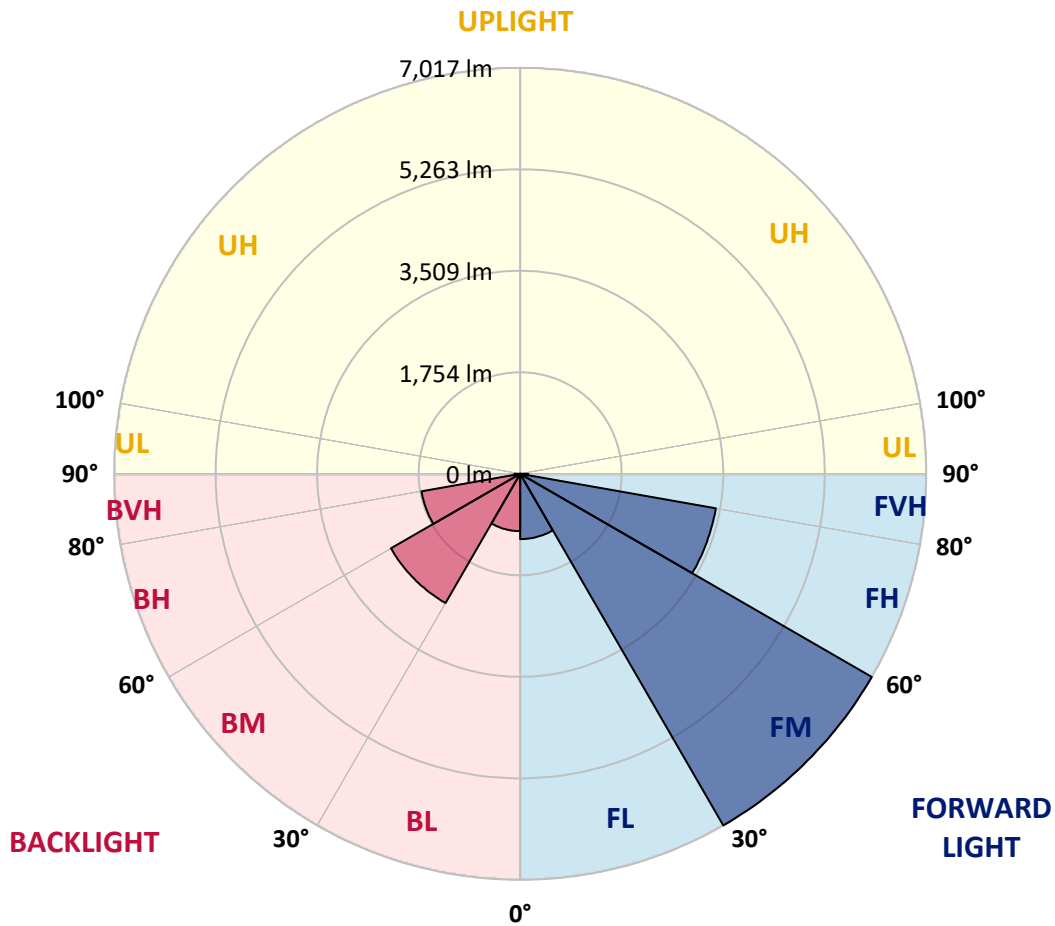
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1128.6 | 6.6       |                         |      |         |
| FM (30°-60°)   | 7017.2 | 41.0      |                         |      |         |
| FH (60°-80°)   | 3434.2 | 20.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 139.2  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 990.8  | 5.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 2579.3 | 15.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 1733.2 | 10.1      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 99.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 |
| 2.5°  | 1874.3 | 1869.0 | 1873.4 | 1873.4 | 1875.2 | 1874.3 | 1880.6 | 1882.3 | 1885.0 | 1890.3 |
| 5°    | 1855.7 | 1854.8 | 1862.8 | 1869.9 | 1877.0 | 1883.2 | 1891.2 | 1902.8 | 1904.5 | 1910.8 |
| 7.5°  | 1849.5 | 1844.1 | 1856.6 | 1865.5 | 1882.3 | 1897.4 | 1918.7 | 1938.3 | 1946.3 | 1949.0 |
| 10°   | 1897.4 | 1888.5 | 1900.1 | 1905.4 | 1919.6 | 1934.7 | 1959.6 | 1990.7 | 1999.6 | 2010.2 |
| 12.5° | 1979.2 | 1969.4 | 1986.3 | 1994.3 | 2007.6 | 2020.9 | 2037.8 | 2068.0 | 2072.4 | 2092.0 |
| 15°   | 2091.1 | 2079.5 | 2090.2 | 2100.0 | 2122.2 | 2134.6 | 2151.5 | 2180.8 | 2180.8 | 2195.9 |
| 17.5° | 2243.0 | 2227.9 | 2235.9 | 2239.4 | 2253.6 | 2272.3 | 2300.7 | 2326.5 | 2339.8 | 2334.5 |
| 20°   | 2469.5 | 2450.8 | 2450.8 | 2433.1 | 2427.8 | 2442.9 | 2480.2 | 2515.7 | 2529.9 | 2502.4 |
| 22.5° | 2809.7 | 2783.1 | 2768.0 | 2707.6 | 2683.6 | 2685.4 | 2722.7 | 2766.2 | 2777.7 | 2728.9 |
| 25°   | 3242.3 | 3200.6 | 3180.1 | 3091.3 | 3037.1 | 2990.1 | 3019.4 | 3075.3 | 3091.3 | 3030.9 |
| 27.5° | 3674.9 | 3677.6 | 3658.1 | 3551.5 | 3461.7 | 3375.6 | 3360.5 | 3419.1 | 3436.0 | 3367.6 |
| 30°   | 4281.7 | 4218.6 | 4181.3 | 4053.4 | 3925.4 | 3804.6 | 3742.4 | 3766.4 | 3770.9 | 3689.2 |
| 32.5° | 4804.9 | 4788.9 | 4708.9 | 4597.0 | 4432.7 | 4243.5 | 4139.5 | 4101.3 | 4094.2 | 3977.9 |
| 35°   | 5400.9 | 5392.0 | 5307.7 | 5174.4 | 4996.7 | 4733.8 | 4546.4 | 4437.1 | 4428.2 | 4264.8 |
| 37.5° | 6006.8 | 6006.8 | 5924.1 | 5778.5 | 5594.6 | 5265.9 | 4980.8 | 4807.5 | 4779.1 | 4565.9 |
| 40°   | 6490.0 | 6460.7 | 6475.8 | 6414.5 | 6204.0 | 5854.9 | 5463.1 | 5211.7 | 5173.5 | 4917.7 |
| 42.5° | 6764.5 | 6754.7 | 6845.3 | 6913.7 | 6827.5 | 6548.6 | 5994.3 | 5649.7 | 5596.4 | 5305.0 |
| 45°   | 6825.8 | 6815.1 | 6976.8 | 7227.3 | 7348.1 | 7233.5 | 6571.7 | 6110.7 | 6045.8 | 5710.1 |
| 47.5° | 6684.5 | 6663.2 | 6900.4 | 7295.7 | 7683.0 | 7884.6 | 7197.1 | 6610.8 | 6516.6 | 6104.5 |
| 50°   | 6259.9 | 6239.5 | 6598.4 | 7123.4 | 7795.8 | 8327.0 | 7875.8 | 7141.1 | 6997.2 | 6527.3 |
| 52.5° | 5337.0 | 5346.7 | 5909.0 | 6630.3 | 7647.5 | 8602.4 | 8460.3 | 7699.9 | 7526.6 | 6959.9 |
| 55°   | 4157.3 | 4178.6 | 4869.7 | 5663.9 | 7054.1 | 8560.6 | 8859.1 | 8275.5 | 8103.2 | 7366.8 |
| 57.5° | 2976.7 | 3070.9 | 3718.5 | 4504.6 | 5914.4 | 7898.9 | 8946.2 | 8822.7 | 8655.7 | 7810.9 |
| 60°   | 1929.4 | 1946.3 | 2612.5 | 3404.9 | 4503.7 | 6722.7 | 8769.4 | 9237.5 | 9107.0 | 8263.9 |
| 62.5° | 1236.5 | 1248.1 | 1654.0 | 2381.6 | 3241.4 | 4973.6 | 8174.2 | 9417.9 | 9377.9 | 8563.3 |
| 65°   | 908.7  | 899.9  | 1111.3 | 1574.1 | 2183.5 | 3067.3 | 7018.5 | 9330.8 | 9409.9 | 8750.7 |
| 67.5° | 758.6  | 746.2  | 850.1  | 1090.0 | 1608.7 | 1742.0 | 5193.1 | 8765.0 | 9054.5 | 8729.4 |
| 70°   | 691.1  | 680.4  | 743.5  | 809.3  | 1255.2 | 1166.4 | 2617.8 | 7619.9 | 8065.9 | 8486.9 |
| 72.5° | 585.4  | 566.7  | 652.9  | 718.6  | 976.3  | 894.5  | 1082.0 | 5853.1 | 6396.7 | 7709.6 |
| 75°   | 453.9  | 441.5  | 515.2  | 632.5  | 733.7  | 698.2  | 684.0  | 3554.1 | 4147.5 | 5962.3 |
| 77.5° | 359.8  | 342.9  | 410.4  | 493.0  | 660.0  | 526.8  | 498.3  | 1530.6 | 2118.6 | 3806.4 |
| 80°   | 270.9  | 255.8  | 311.8  | 390.0  | 507.2  | 397.1  | 322.5  | 624.5  | 798.6  | 1928.5 |
| 82.5° | 192.8  | 179.4  | 217.6  | 286.0  | 341.1  | 356.2  | 198.1  | 350.0  | 393.5  | 743.5  |
| 85°   | 123.5  | 115.5  | 145.7  | 179.4  | 216.7  | 229.2  | 120.8  | 183.0  | 200.8  | 306.5  |
| 87.5° | 67.5   | 55.1   | 78.2   | 83.5   | 100.4  | 91.5   | 57.7   | 66.6   | 72.0   | 111.0  |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1886.8 | 0°    | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 | 1886.8 |
| 1890.3 | 2.5°  | 1893.9 | 1896.5 | 1905.4 | 1908.1 | 1914.3 | 1922.3 | 1927.6 | 1933.0 | 1933.0 | 1938.3 |
| 1918.7 | 5°    | 1919.6 | 1925.9 | 1944.5 | 1954.3 | 1970.3 | 1986.3 | 1996.0 | 2007.6 | 2014.7 | 2018.2 |
| 1964.1 | 7.5°  | 1969.4 | 1979.2 | 2005.8 | 2022.7 | 2050.2 | 2072.4 | 2087.5 | 2103.5 | 2107.1 | 2116.8 |
| 2027.1 | 10°   | 2036.9 | 2048.4 | 2078.6 | 2110.6 | 2143.5 | 2171.0 | 2185.2 | 2196.8 | 2201.2 | 2203.0 |
| 2108.0 | 12.5° | 2114.2 | 2131.1 | 2170.1 | 2209.2 | 2243.9 | 2267.9 | 2271.4 | 2268.7 | 2256.3 | 2245.6 |
| 2207.5 | 15°   | 2209.2 | 2224.3 | 2267.9 | 2310.5 | 2344.2 | 2348.7 | 2326.5 | 2312.3 | 2297.2 | 2294.5 |
| 2318.5 | 17.5° | 2322.9 | 2330.9 | 2370.9 | 2412.6 | 2415.3 | 2400.2 | 2367.3 | 2354.0 | 2339.8 | 2330.0 |
| 2463.3 | 20°   | 2455.3 | 2452.6 | 2481.0 | 2498.8 | 2480.2 | 2434.0 | 2384.2 | 2362.0 | 2347.8 | 2336.3 |
| 2640.9 | 22.5° | 2613.4 | 2593.0 | 2589.4 | 2585.0 | 2535.2 | 2438.4 | 2370.9 | 2342.5 | 2320.3 | 2304.3 |
| 2888.8 | 25°   | 2843.5 | 2765.3 | 2711.1 | 2680.9 | 2569.0 | 2414.4 | 2328.3 | 2265.2 | 2223.4 | 2195.9 |
| 3191.7 | 27.5° | 3131.3 | 2999.8 | 2863.0 | 2789.3 | 2569.0 | 2365.6 | 2225.2 | 2123.1 | 2054.7 | 2026.2 |
| 3484.8 | 30°   | 3405.8 | 3268.1 | 3066.4 | 2919.9 | 2562.8 | 2285.6 | 2059.1 | 1917.0 | 1837.0 | 1808.6 |
| 3735.3 | 32.5° | 3640.3 | 3490.2 | 3282.3 | 3062.9 | 2547.7 | 2155.9 | 1853.0 | 1695.8 | 1618.5 | 1584.7 |
| 3983.2 | 35°   | 3857.9 | 3698.0 | 3499.1 | 3220.1 | 2507.7 | 1965.8 | 1626.5 | 1506.6 | 1420.4 | 1366.2 |
| 4235.5 | 37.5° | 4080.9 | 3890.8 | 3704.3 | 3362.3 | 2435.7 | 1743.8 | 1452.4 | 1350.2 | 1249.0 | 1176.1 |
| 4503.7 | 40°   | 4323.4 | 4096.0 | 3923.7 | 3446.6 | 2317.6 | 1532.3 | 1317.4 | 1224.1 | 1116.6 | 1039.3 |
| 4812.9 | 42.5° | 4606.8 | 4342.1 | 4167.9 | 3490.2 | 2155.9 | 1382.2 | 1229.4 | 1137.9 | 1036.7 | 973.6  |
| 5144.2 | 45°   | 4902.6 | 4613.0 | 4390.9 | 3489.3 | 1975.6 | 1312.0 | 1201.0 | 1110.4 | 998.5  | 932.7  |
| 5484.4 | 47.5° | 5212.6 | 4896.4 | 4583.7 | 3432.4 | 1819.3 | 1321.8 | 1185.0 | 1050.9 | 927.4  | 863.4  |
| 5828.2 | 50°   | 5523.5 | 5206.4 | 4770.2 | 3325.8 | 1752.6 | 1300.5 | 1125.5 | 967.4  | 821.7  | 763.9  |
| 6150.7 | 52.5° | 5831.8 | 5535.9 | 4931.0 | 3173.9 | 1685.1 | 1221.4 | 1049.1 | 859.0  | 778.2  | 738.2  |
| 6483.8 | 55°   | 6141.8 | 5862.0 | 5106.0 | 2952.7 | 1516.3 | 1129.0 | 921.2  | 818.1  | 743.5  | 707.1  |
| 6809.8 | 57.5° | 6452.7 | 6238.6 | 5272.1 | 2731.6 | 1304.0 | 1015.3 | 851.0  | 768.4  | 708.9  | 677.8  |
| 7082.5 | 60°   | 6776.0 | 6669.4 | 5443.6 | 2528.1 | 1094.4 | 869.7  | 799.5  | 728.4  | 668.0  | 633.4  |
| 7344.5 | 62.5° | 7109.1 | 7143.8 | 5577.7 | 2266.1 | 901.6  | 780.8  | 753.3  | 680.4  | 621.8  | 588.9  |
| 7561.3 | 65°   | 7444.9 | 7601.3 | 5665.6 | 1902.8 | 731.1  | 696.4  | 703.5  | 628.0  | 568.5  | 540.1  |
| 7720.3 | 67.5° | 7698.1 | 7930.8 | 5640.8 | 1440.0 | 599.6  | 616.5  | 641.4  | 573.0  | 517.0  | 494.8  |
| 7694.5 | 70°   | 7726.5 | 7891.7 | 5395.6 | 986.0  | 501.9  | 538.3  | 572.1  | 518.8  | 461.0  | 445.0  |
| 7332.1 | 72.5° | 7348.1 | 7358.8 | 4712.5 | 644.0  | 424.6  | 472.6  | 499.2  | 463.7  | 407.7  | 391.7  |
| 6414.5 | 75°   | 6355.9 | 6085.8 | 3460.0 | 424.6  | 355.3  | 406.0  | 430.8  | 406.0  | 351.8  | 355.3  |
| 4799.5 | 77.5° | 4815.5 | 4310.1 | 2100.9 | 302.0  | 296.7  | 341.1  | 374.9  | 357.1  | 310.9  | 349.1  |
| 2413.5 | 80°   | 2481.0 | 2331.8 | 937.2  | 225.6  | 234.5  | 272.7  | 308.2  | 285.1  | 246.1  | 234.5  |
| 539.2  | 82.5° | 568.5  | 660.9  | 369.5  | 161.7  | 169.7  | 196.3  | 235.4  | 214.1  | 176.8  | 149.2  |
| 224.7  | 85°   | 199.0  | 217.6  | 163.4  | 101.3  | 99.5   | 122.6  | 159.9  | 143.0  | 119.9  | 95.9   |
| 95.0   | 87.5° | 63.1   | 82.6   | 61.3   | 40.9   | 42.6   | 55.1   | 73.7   | 67.5   | 56.0   | 36.4   |
| 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> |
|-------------|
| 1886.8      |
| 1938.3      |
| 2020.0      |
| 2113.3      |
| 2198.6      |
| 2245.6      |
| 2294.5      |
| 2330.9      |
| 2337.1      |
| 2309.6      |
| 2206.6      |
| 2040.4      |
| 1825.5      |
| 1601.6      |
| 1384.0      |
| 1195.7      |
| 1054.4      |
| 986.0       |
| 943.4       |
| 872.3       |
| 767.5       |
| 738.2       |
| 703.5       |
| 672.5       |
| 630.7       |
| 588.1       |
| 539.2       |
| 495.7       |
| 445.9       |
| 390.9       |
| 342.9       |
| 307.4       |
| 214.1       |
| 147.5       |
| 101.3       |
| 38.2        |
| 0.0         |

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