

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: P952860

Luminaire Tested: **GALN-SB6C-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

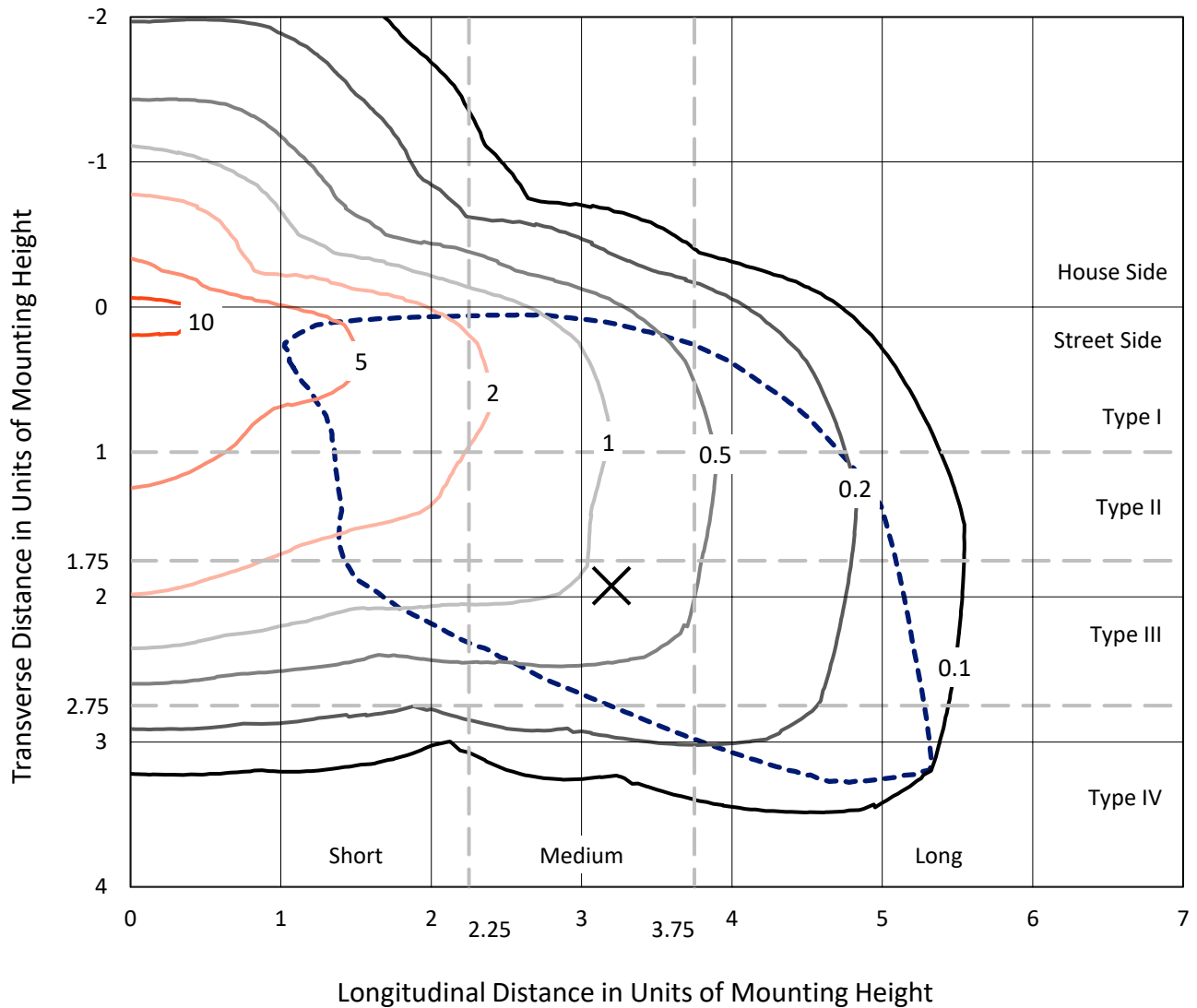
Lumens per Lamp: N/A  
Luminaire Lumens: 39882 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

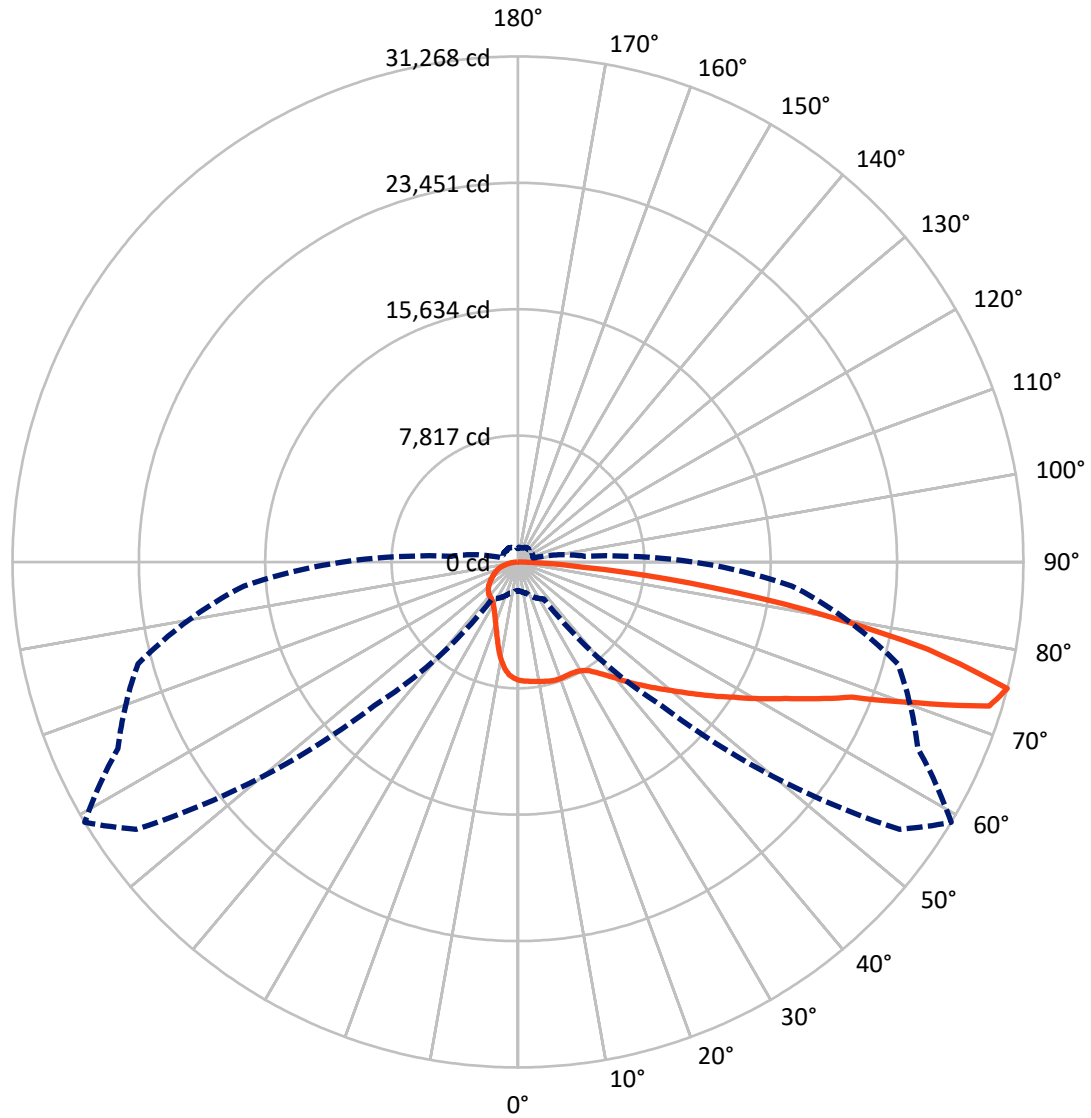
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7480.1   | 0.0    | 7480.1  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 32401.9  | 0.0    | 32401.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 39882.0  | 0.0    | 39882.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 656.4   | 1.6       |
| 10°-20°   | 1677.7  | 4.2       |
| 20°-30°   | 2548.4  | 6.4       |
| 30°-40°   | 3788.1  | 9.5       |
| 40°-50°   | 5633.5  | 14.1      |
| 50°-60°   | 7646.8  | 19.2      |
| 60°-70°   | 9335.5  | 23.4      |
| 70°-80°   | 7326.4  | 18.4      |
| 80°-90°   | 1269.1  | 3.2       |
| 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°    | 39882.0 | 100.0     |
| 0°-180°   | 39882.0 | 100.0     |

**Coefficient of Utilization**



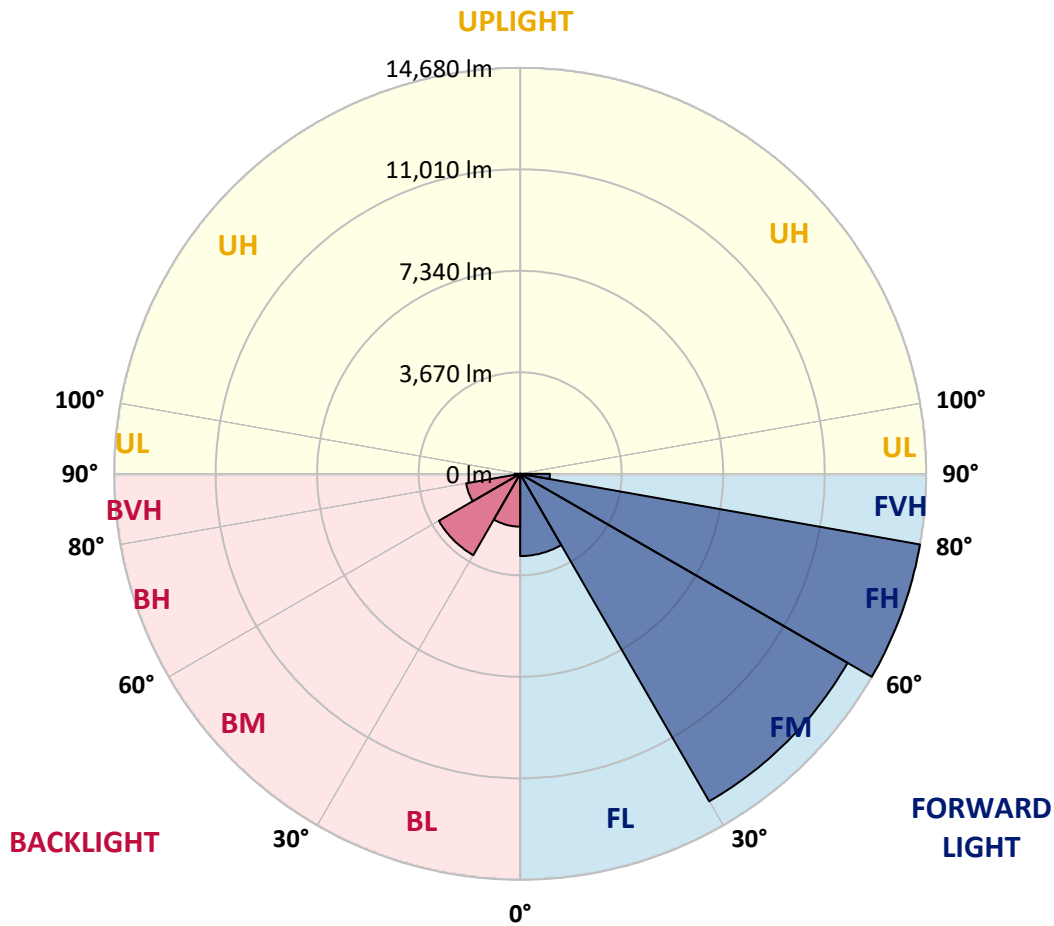
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2973.6  | 7.5       |                         |      |         |
| FM (30°-60°)   | 13673.2 | 34.3      |                         |      |         |
| FH (60°-80°)   | 14680.2 | 36.8      |                         |      | G5      |
| FVH (80°-90°)  | 1074.8  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1908.9  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3395.2  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1981.8  | 5.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 194.3   | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  | 7320.3  |
| 2.5°  | 7382.5  | 7356.7  | 7382.5  | 7371.7  | 7367.5  | 7358.9  | 7361.0  | 7376.0  | 7367.5  | 7378.2  |
| 5°    | 7333.1  | 7318.1  | 7343.9  | 7337.4  | 7365.3  | 7369.6  | 7397.5  | 7414.7  | 7425.4  | 7427.5  |
| 7.5°  | 7251.6  | 7236.6  | 7273.1  | 7303.1  | 7363.2  | 7380.3  | 7438.3  | 7466.1  | 7481.2  | 7506.9  |
| 10°   | 6953.4  | 6946.9  | 7037.1  | 7150.8  | 7292.4  | 7380.3  | 7468.3  | 7515.5  | 7539.1  | 7607.7  |
| 12.5° | 6425.6  | 6434.2  | 6552.2  | 6771.0  | 7054.2  | 7337.4  | 7502.6  | 7571.3  | 7607.7  | 7693.6  |
| 15°   | 5921.4  | 5919.3  | 6048.0  | 6281.9  | 6678.8  | 7148.6  | 7519.8  | 7637.8  | 7700.0  | 7826.6  |
| 17.5° | 5629.6  | 5621.1  | 5711.2  | 5889.2  | 6258.3  | 6859.0  | 7476.9  | 7674.3  | 7807.3  | 7966.0  |
| 20°   | 5576.0  | 5558.8  | 5606.0  | 5694.0  | 5955.8  | 6541.5  | 7365.3  | 7674.3  | 7893.1  | 8099.0  |
| 22.5° | 5771.2  | 5743.4  | 5724.0  | 5713.3  | 5829.2  | 6279.7  | 7238.7  | 7648.5  | 8019.7  | 8290.0  |
| 25°   | 6163.9  | 6120.9  | 6022.3  | 5925.7  | 5891.4  | 6161.7  | 7127.2  | 7642.1  | 8208.5  | 8547.4  |
| 27.5° | 6798.9  | 6745.3  | 6545.7  | 6314.0  | 6105.9  | 6221.8  | 7077.8  | 7680.7  | 8416.6  | 8819.9  |
| 30°   | 7586.3  | 7528.4  | 7277.3  | 6921.2  | 6547.9  | 6444.9  | 7140.0  | 7794.4  | 8682.6  | 9182.5  |
| 32.5° | 8292.1  | 8227.8  | 8013.2  | 7650.7  | 7146.5  | 6831.1  | 7337.4  | 8011.1  | 9101.0  | 9686.7  |
| 35°   | 8918.6  | 8843.5  | 8650.4  | 8315.7  | 7880.2  | 7373.9  | 7693.6  | 8395.1  | 9695.3  | 10506.2 |
| 37.5° | 9532.2  | 9444.2  | 9234.0  | 8880.0  | 8575.3  | 8096.9  | 8184.9  | 8888.6  | 10484.8 | 11501.7 |
| 40°   | 10218.7 | 10092.2 | 9836.9  | 9487.1  | 9191.1  | 8944.4  | 8830.6  | 9493.6  | 11287.2 | 12613.1 |
| 42.5° | 10883.8 | 10763.7 | 10459.0 | 10160.8 | 9789.7  | 9718.9  | 9579.4  | 10201.6 | 12164.7 | 13833.8 |
| 45°   | 11600.4 | 11456.7 | 11087.7 | 10710.1 | 10476.2 | 10233.8 | 10304.6 | 10909.6 | 13025.0 | 15078.2 |
| 47.5° | 12271.9 | 12111.0 | 11675.5 | 11255.0 | 11126.3 | 10667.1 | 10969.7 | 11688.4 | 13919.6 | 16339.7 |
| 50°   | 12634.5 | 12475.8 | 12113.2 | 11733.4 | 11632.6 | 11201.4 | 11690.5 | 12544.4 | 14857.2 | 17596.9 |
| 52.5° | 12937.0 | 12765.4 | 12291.2 | 12081.0 | 12051.0 | 11782.8 | 12578.7 | 13522.7 | 15794.8 | 18708.3 |
| 55°   | 13258.8 | 13067.9 | 12462.9 | 12274.1 | 12411.4 | 12435.0 | 13632.1 | 14631.9 | 16785.9 | 19791.7 |
| 57.5° | 13630.0 | 13387.6 | 12628.1 | 12437.1 | 12763.2 | 13198.8 | 14842.2 | 15781.9 | 17760.0 | 20795.8 |
| 60°   | 13979.7 | 13735.1 | 12945.6 | 12696.7 | 13143.0 | 14084.8 | 16230.3 | 17174.3 | 18862.7 | 21690.4 |
| 62.5° | 14048.4 | 13846.7 | 13198.8 | 13196.6 | 13657.9 | 15118.9 | 17873.7 | 18579.5 | 19826.0 | 22574.4 |
| 65°   | 12859.8 | 12733.2 | 12349.2 | 13177.3 | 14395.9 | 16607.9 | 19703.8 | 20377.4 | 21051.1 | 23346.7 |
| 67.5° | 9787.5  | 9804.7  | 9776.8  | 11375.1 | 13799.5 | 18746.9 | 22353.4 | 22301.9 | 22563.6 | 24213.5 |
| 70°   | 4475.4  | 4576.2  | 5232.7  | 7852.3  | 11055.5 | 18993.6 | 26734.4 | 26067.1 | 24462.3 | 25335.5 |
| 72.5° | 2417.9  | 2495.2  | 2763.3  | 3803.9  | 6646.6  | 16886.8 | 30008.3 | 30482.5 | 26987.5 | 26090.7 |
| 75°   | 1774.3  | 1817.2  | 2003.8  | 2417.9  | 2791.2  | 12550.8 | 28834.8 | 31267.7 | 27302.9 | 24329.3 |
| 77.5° | 1328.0  | 1347.3  | 1499.7  | 1915.9  | 1428.9  | 6616.5  | 23039.9 | 25895.5 | 23372.5 | 19989.1 |
| 80°   | 963.3   | 984.8   | 1098.5  | 1437.4  | 1001.9  | 2420.1  | 15820.5 | 18176.2 | 16007.2 | 12741.8 |
| 82.5° | 665.1   | 673.7   | 723.0   | 978.3   | 699.4   | 939.7   | 8976.5  | 10658.6 | 8935.8  | 4471.1  |
| 85°   | 401.2   | 411.9   | 433.4   | 570.7   | 396.9   | 446.3   | 3874.7  | 4007.7  | 2671.1  | 1068.4  |
| 87.5° | 165.2   | 175.9   | 193.1   | 240.3   | 156.6   | 124.4   | 639.3   | 802.4   | 499.9   | 313.2   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7320.3  | 0°    | 7320.3  | 7320.3 | 7320.3 | 7320.3 | 7320.3 | 7320.3 | 7320.3 | 7320.3 | 7320.3 | 7320.3 |
| 7341.7  | 2.5°  | 7331.0  | 7316.0 | 7275.2 | 7219.4 | 7167.9 | 7103.6 | 7075.7 | 7052.1 | 7030.6 | 6989.9 |
| 7399.6  | 5°    | 7376.0  | 7335.3 | 7225.9 | 7084.3 | 6923.3 | 6747.4 | 6575.8 | 6457.8 | 6356.9 | 6281.9 |
| 7466.1  | 7.5°  | 7444.7  | 7367.5 | 7167.9 | 6878.3 | 6509.3 | 6131.7 | 5790.6 | 5548.1 | 5365.8 | 5299.2 |
| 7560.5  | 10°   | 7515.5  | 7423.2 | 7075.7 | 6565.1 | 5927.9 | 5346.4 | 4893.8 | 4644.9 | 4499.0 | 4451.8 |
| 7672.1  | 12.5° | 7599.2  | 7464.0 | 6931.9 | 6129.5 | 5277.8 | 4640.6 | 4245.8 | 4099.9 | 4024.9 | 3999.1 |
| 7809.4  | 15°   | 7721.5  | 7498.3 | 6715.2 | 5584.6 | 4657.8 | 4125.7 | 3870.4 | 3769.5 | 3730.9 | 3728.8 |
| 7951.0  | 17.5° | 7813.7  | 7504.8 | 6378.4 | 5001.0 | 4181.5 | 3814.6 | 3604.3 | 3565.7 | 3591.5 | 3630.1 |
| 8090.5  | 20°   | 7916.7  | 7446.8 | 5936.4 | 4469.0 | 3846.8 | 3542.1 | 3454.2 | 3479.9 | 3542.1 | 3597.9 |
| 8275.0  | 22.5° | 7989.6  | 7341.7 | 5402.2 | 4054.9 | 3557.1 | 3385.5 | 3381.2 | 3434.9 | 3469.2 | 3497.1 |
| 8491.7  | 25°   | 8054.0  | 7163.6 | 4835.8 | 3707.3 | 3319.0 | 3291.1 | 3338.3 | 3321.1 | 3297.5 | 3321.1 |
| 8708.4  | 27.5° | 8101.2  | 6882.6 | 4329.5 | 3402.7 | 3151.7 | 3226.7 | 3198.9 | 3160.2 | 3158.1 | 3171.0 |
| 8963.7  | 30°   | 8086.2  | 6507.1 | 3913.3 | 3113.0 | 3033.7 | 3106.6 | 3040.1 | 3033.7 | 3027.2 | 3033.7 |
| 9347.7  | 32.5° | 8086.2  | 6080.2 | 3593.6 | 2913.5 | 2958.6 | 2930.7 | 2924.2 | 2909.2 | 2883.5 | 2881.3 |
| 9869.0  | 35°   | 8131.2  | 5653.2 | 3319.0 | 2806.2 | 2896.3 | 2829.8 | 2834.1 | 2797.7 | 2744.0 | 2718.3 |
| 10559.9 | 37.5° | 8223.5  | 5310.0 | 3046.5 | 2754.7 | 2786.9 | 2784.8 | 2767.6 | 2705.4 | 2611.0 | 2529.5 |
| 11422.3 | 40°   | 8446.6  | 5209.1 | 2859.9 | 2731.1 | 2735.4 | 2761.2 | 2716.1 | 2596.0 | 2381.4 | 2248.4 |
| 12297.7 | 42.5° | 8796.3  | 5378.6 | 2819.1 | 2673.2 | 2701.1 | 2726.9 | 2638.9 | 2360.0 | 2207.7 | 2128.3 |
| 13215.9 | 45°   | 9240.4  | 5674.7 | 2907.1 | 2589.5 | 2619.6 | 2664.6 | 2402.9 | 2269.9 | 2201.2 | 2203.4 |
| 14125.6 | 47.5° | 9802.5  | 5985.8 | 3070.1 | 2516.6 | 2501.6 | 2527.3 | 2246.3 | 2164.8 | 2070.4 | 2094.0 |
| 14998.8 | 50°   | 10452.6 | 6301.2 | 3224.6 | 2417.9 | 2370.7 | 2287.0 | 2145.4 | 2068.2 | 1948.1 | 1892.3 |
| 15842.0 | 52.5° | 11156.3 | 6605.8 | 3286.8 | 2297.8 | 2229.1 | 2132.6 | 2076.8 | 1982.4 | 1836.5 | 1744.2 |
| 16637.9 | 55°   | 11823.5 | 6882.6 | 3218.2 | 2154.0 | 2087.5 | 2012.4 | 2003.8 | 1945.9 | 1789.3 | 1660.6 |
| 17345.9 | 57.5° | 12454.3 | 7114.3 | 3046.5 | 2008.1 | 1943.8 | 1898.7 | 1956.6 | 1928.8 | 1731.4 | 1566.2 |
| 18015.3 | 60°   | 12988.5 | 7273.1 | 2797.7 | 1860.1 | 1815.0 | 1791.4 | 1879.4 | 1870.8 | 1649.8 | 1465.3 |
| 18616.0 | 62.5° | 13413.3 | 7335.3 | 2523.0 | 1718.5 | 1707.8 | 1664.9 | 1772.1 | 1772.1 | 1546.9 | 1366.6 |
| 19143.8 | 65°   | 13745.9 | 7275.2 | 2244.1 | 1579.0 | 1600.5 | 1536.1 | 1641.3 | 1628.4 | 1437.4 | 1278.7 |
| 19751.0 | 67.5° | 14039.8 | 7077.8 | 1935.2 | 1441.7 | 1491.1 | 1409.6 | 1504.0 | 1473.9 | 1317.3 | 1190.7 |
| 20276.6 | 70°   | 14170.7 | 6618.7 | 1583.3 | 1304.4 | 1364.5 | 1285.1 | 1366.6 | 1310.9 | 1182.1 | 1096.3 |
| 19699.5 | 72.5° | 13119.4 | 5500.9 | 1246.5 | 1160.7 | 1212.2 | 1147.8 | 1218.6 | 1154.2 | 1036.2 | 997.6  |
| 17011.2 | 75°   | 10853.8 | 4127.8 | 959.0  | 1004.1 | 1042.7 | 993.3  | 1040.5 | 993.3  | 886.1  | 914.0  |
| 12565.9 | 77.5° | 7882.4  | 2786.9 | 733.7  | 838.9  | 856.0  | 830.3  | 871.0  | 817.4  | 720.9  | 714.4  |
| 6262.5  | 80°   | 3919.7  | 1632.7 | 575.0  | 662.9  | 656.5  | 639.3  | 686.5  | 660.8  | 579.3  | 613.6  |
| 1690.6  | 82.5° | 1134.9  | 699.4  | 418.4  | 465.6  | 452.7  | 457.0  | 491.3  | 504.2  | 755.2  | 748.8  |
| 525.6   | 85°   | 356.1   | 274.6  | 251.0  | 259.6  | 246.7  | 253.2  | 289.6  | 575.0  | 532.1  | 311.1  |
| 163.1   | 87.5° | 92.3    | 94.4   | 62.2   | 66.5   | 68.7   | 81.5   | 92.3   | 349.7  | 167.3  | 109.4  |
| 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> |
|-------------|
| 7320.3      |
| 6970.5      |
| 6219.6      |
| 5183.4      |
| 4378.8      |
| 4005.5      |
| 3737.4      |
| 3645.1      |
| 3617.2      |
| 3512.1      |
| 3336.2      |
| 3192.4      |
| 3057.3      |
| 2909.2      |
| 2744.0      |
| 2557.4      |
| 2265.6      |
| 2128.3      |
| 2214.1      |
| 2154.0      |
| 1907.3      |
| 1742.1      |
| 1660.6      |
| 1557.6      |
| 1458.9      |
| 1360.2      |
| 1270.1      |
| 1182.1      |
| 1079.2      |
| 965.4       |
| 834.6       |
| 682.3       |
| 607.2       |
| 765.9       |
| 336.8       |
| 115.9       |
| 0.0         |

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