

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: P948886

Luminaire Tested: **GALN-SB3D-760-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-760-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

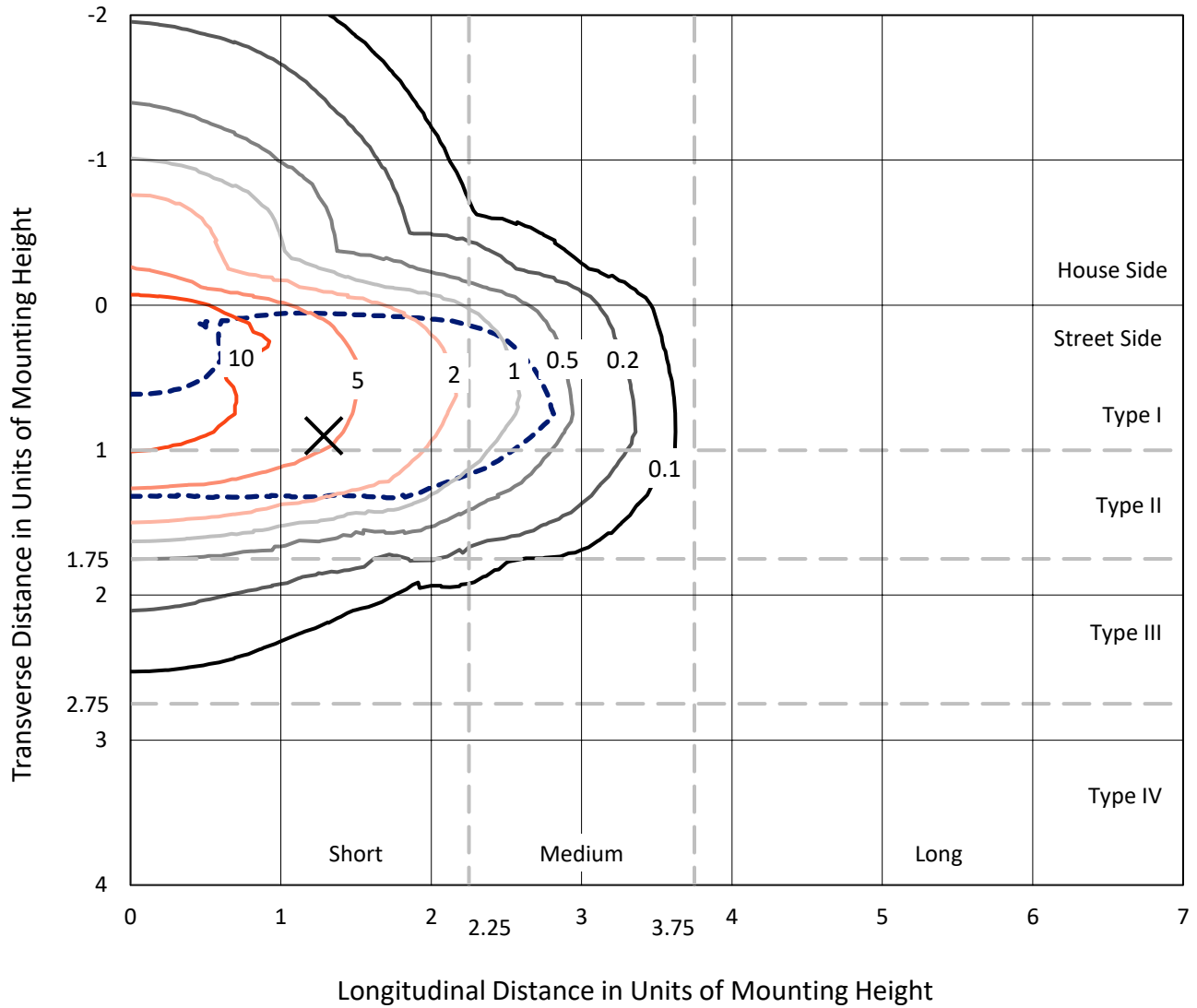
Lumens per Lamp: N/A  
Luminaire Lumens: 32852 lumens  
Efficiency: N/A  
Efficacy: 150.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

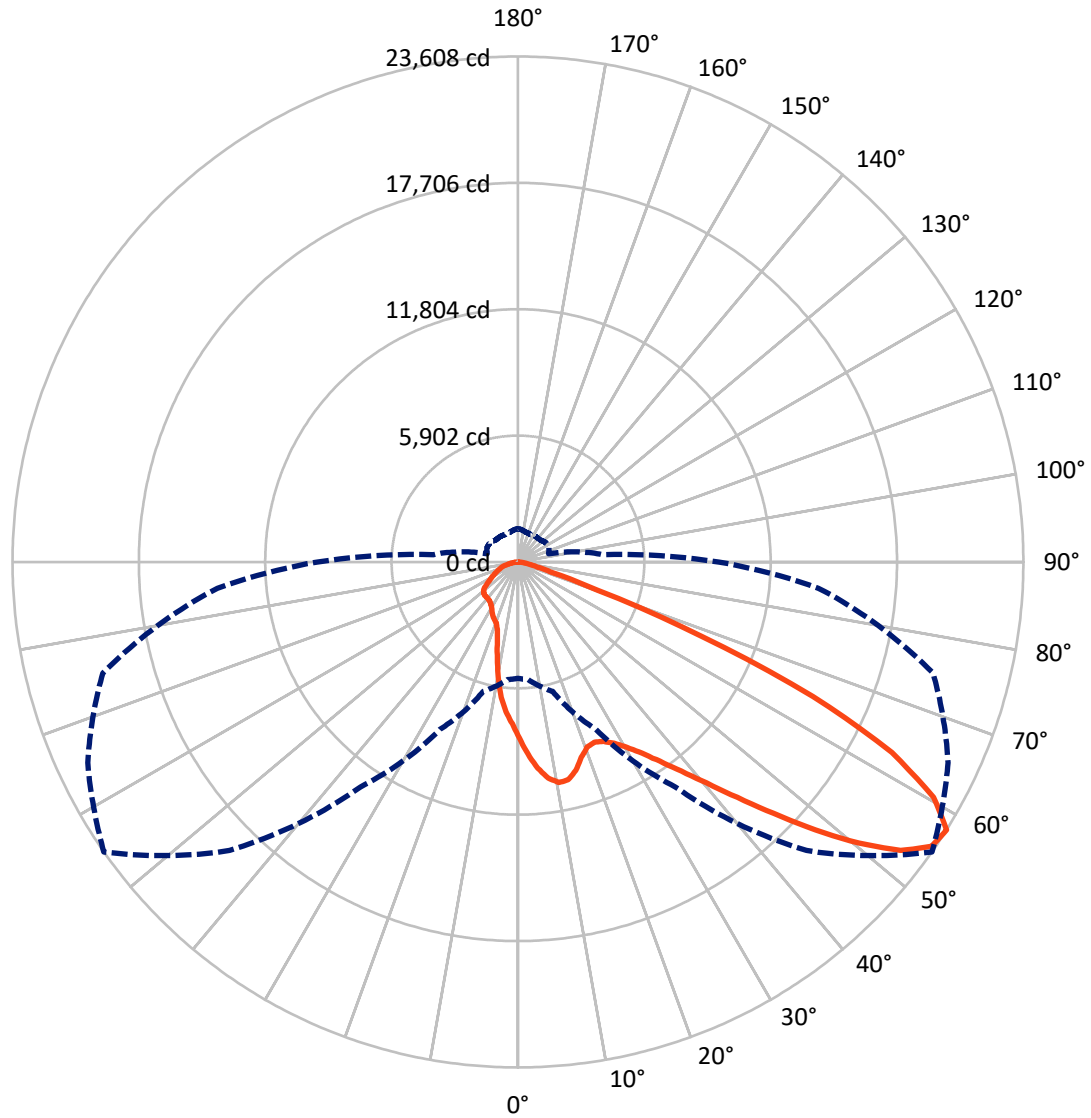
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5944.4   | 0.0    | 5944.4  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 26907.6  | 0.0    | 26907.6 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 32852.0  | 0.0    | 32852.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 763.8   | 2.3       |
| 10°-20°   | 1928.0  | 5.9       |
| 20°-30°   | 3076.5  | 9.4       |
| 30°-40°   | 4870.9  | 14.8      |
| 40°-50°   | 7455.4  | 22.7      |
| 50°-60°   | 7985.4  | 24.3      |
| 60°-70°   | 5023.7  | 15.3      |
| 70°-80°   | 1485.6  | 4.5       |
| 80°-90°   | 262.7   | 0.8       |
| 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°    | 32852.0 | 100.0     |
| 0°-180°   | 32852.0 | 100.0     |

**Coefficient of Utilization**



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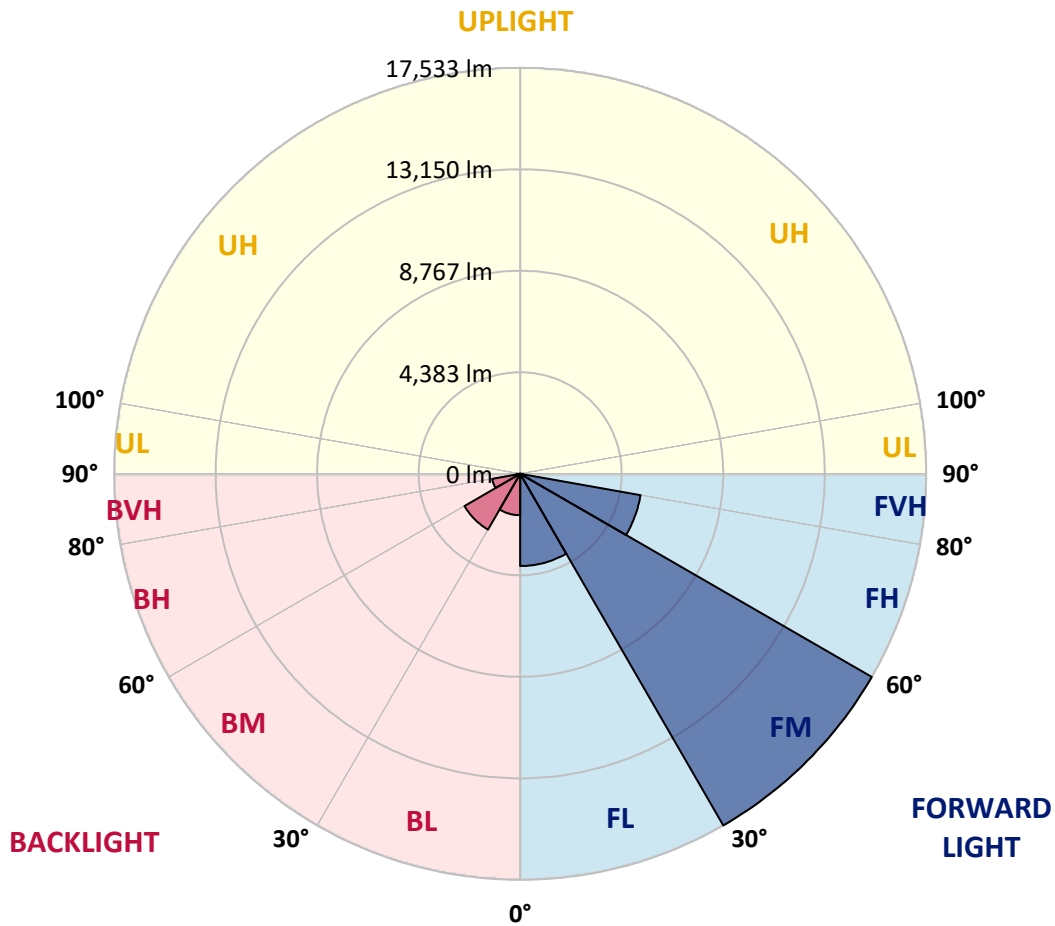
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3981.7  | 12.1      |                         |      |         |
| FM (30°-60°)   | 17533.3 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5281.6  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 111.0   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1786.7  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2778.4  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1227.7  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 151.7   | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  | 8231.6  |
| 2.5°  | 9444.2  | 9437.4  | 9474.8  | 9347.4  | 9260.8  | 9143.6  | 8989.1  | 8792.1  | 8579.8  | 8355.6  |
| 5°    | 10295.1 | 10235.6 | 10274.7 | 10179.6 | 10084.5 | 9907.9  | 9678.6  | 9357.6  | 8965.3  | 8518.7  |
| 7.5°  | 10160.9 | 10120.2 | 10220.4 | 10305.3 | 10376.6 | 10354.5 | 10186.4 | 9850.1  | 9344.0  | 8695.3  |
| 10°   | 9079.1  | 9033.2  | 9174.2  | 9468.0  | 9899.4  | 10274.7 | 10478.5 | 10269.6 | 9731.2  | 8888.9  |
| 12.5° | 8124.7  | 8102.6  | 8196.0  | 8433.7  | 8912.7  | 9632.7  | 10441.1 | 10636.4 | 10133.7 | 9118.2  |
| 15°   | 7717.1  | 7689.9  | 7749.3  | 7869.9  | 8175.6  | 8846.4  | 10101.5 | 10887.8 | 10529.4 | 9383.1  |
| 17.5° | 7627.1  | 7596.5  | 7622.0  | 7684.8  | 7881.8  | 8393.0  | 9588.6  | 11011.8 | 10942.1 | 9678.6  |
| 20°   | 7793.5  | 7768.0  | 7771.4  | 7768.0  | 7905.6  | 8311.5  | 9231.9  | 10964.2 | 11302.2 | 9950.3  |
| 22.5° | 8196.0  | 8153.5  | 8155.2  | 8065.2  | 8139.9  | 8454.1  | 9138.5  | 10836.8 | 11623.1 | 10188.1 |
| 25°   | 8851.5  | 8775.1  | 8790.4  | 8561.1  | 8540.7  | 8773.4  | 9284.6  | 10738.3 | 11942.4 | 10378.3 |
| 27.5° | 9748.2  | 9661.6  | 9615.8  | 9274.4  | 9111.4  | 9226.8  | 9581.8  | 10772.3 | 12244.7 | 10543.0 |
| 30°   | 10869.1 | 10763.8 | 10670.4 | 10186.4 | 9890.9  | 9848.4  | 10043.7 | 10996.5 | 12601.4 | 10716.3 |
| 32.5° | 12243.0 | 12120.7 | 11950.9 | 11309.0 | 10892.9 | 10670.4 | 10641.5 | 11395.6 | 13019.1 | 10937.0 |
| 35°   | 13878.5 | 13718.8 | 13477.7 | 12647.2 | 12120.7 | 11665.6 | 11429.5 | 11971.3 | 13591.5 | 11269.9 |
| 37.5° | 15563.2 | 15383.2 | 15162.4 | 14174.0 | 13526.9 | 12856.1 | 12390.8 | 12752.5 | 14354.0 | 11721.6 |
| 40°   | 17117.1 | 16915.0 | 16709.5 | 15829.8 | 15135.2 | 14326.8 | 13567.7 | 13740.9 | 15286.4 | 12261.7 |
| 42.5° | 18034.2 | 17884.8 | 17806.6 | 17331.1 | 16794.5 | 15974.2 | 15031.6 | 14912.7 | 16334.2 | 12883.3 |
| 45°   | 17993.5 | 17932.3 | 18173.5 | 18370.5 | 18243.1 | 17788.0 | 16746.9 | 16208.5 | 17385.5 | 13421.6 |
| 47.5° | 17032.2 | 17073.0 | 17611.3 | 18718.6 | 19206.0 | 19443.8 | 18699.9 | 17480.6 | 18299.1 | 13824.1 |
| 50°   | 14416.8 | 14450.8 | 15697.4 | 18085.2 | 19454.0 | 20793.9 | 20637.7 | 18722.0 | 19007.3 | 14070.4 |
| 52.5° | 12346.6 | 12368.7 | 12903.7 | 16206.8 | 18635.4 | 21473.3 | 22383.6 | 19892.2 | 19525.3 | 14138.3 |
| 55°   | 9299.9  | 9376.3  | 9975.8  | 12715.1 | 16505.7 | 20934.9 | 23446.7 | 21097.9 | 19853.1 | 14145.1 |
| 57.5° | 5432.9  | 5516.1  | 6256.5  | 8630.7  | 12828.9 | 19058.3 | 23608.0 | 22167.9 | 20075.6 | 14090.8 |
| 60°   | 2661.2  | 2696.9  | 3019.6  | 4536.2  | 7910.7  | 15442.6 | 22310.5 | 22685.8 | 20199.5 | 14061.9 |
| 62.5° | 1793.4  | 1788.3  | 1801.9  | 2238.4  | 3897.6  | 9921.5  | 19606.8 | 21779.0 | 20133.3 | 13951.5 |
| 65°   | 1542.1  | 1523.4  | 1472.4  | 1570.9  | 2019.3  | 4537.8  | 15148.8 | 19071.9 | 19628.9 | 13674.7 |
| 67.5° | 1333.2  | 1334.9  | 1336.6  | 1306.0  | 1441.9  | 2094.0  | 9257.4  | 15023.1 | 17818.5 | 12363.6 |
| 70°   | 1103.9  | 1119.2  | 1126.0  | 1126.0  | 1175.2  | 1373.9  | 3951.9  | 10296.8 | 14055.1 | 9693.9  |
| 72.5° | 1005.4  | 973.1   | 976.5   | 959.5   | 959.5   | 1046.2  | 1591.3  | 5837.0  | 8854.9  | 5453.2  |
| 75°   | 820.3   | 840.7   | 844.1   | 832.2   | 793.1   | 798.2   | 944.3   | 2448.9  | 3788.9  | 2262.1  |
| 77.5° | 708.2   | 708.2   | 715.0   | 706.5   | 675.9   | 597.8   | 630.1   | 949.3   | 1289.0  | 927.3   |
| 80°   | 568.9   | 567.2   | 596.1   | 613.1   | 565.5   | 441.6   | 402.5   | 524.8   | 572.3   | 407.6   |
| 82.5° | 276.8   | 293.8   | 409.3   | 467.0   | 429.7   | 319.3   | 246.3   | 326.1   | 305.7   | 180.0   |
| 85°   | 161.3   | 152.8   | 183.4   | 259.8   | 246.3   | 176.6   | 118.9   | 169.8   | 159.6   | 91.7    |
| 87.5° | 50.9    | 47.6    | 37.4    | 88.3    | 71.3    | 49.3    | 32.3    | 49.3    | 44.2    | 20.4    |
| 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):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8231.6 | 0°    | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 | 8231.6 |
| 8258.8 | 2.5°  | 8138.2 | 7937.8 | 7739.1 | 7557.4 | 7447.0 | 7375.7 | 7304.4 | 7224.6 | 7194.0 | 7148.1 |
| 8280.9 | 5°    | 8056.7 | 7669.5 | 7324.8 | 7027.6 | 6757.5 | 6545.2 | 6331.3 | 6158.0 | 6079.9 | 6132.5 |
| 8350.5 | 7.5°  | 8009.2 | 7448.7 | 6917.2 | 6372.0 | 5847.2 | 5427.8 | 5062.6 | 4806.2 | 4690.7 | 4719.6 |
| 8418.5 | 10°   | 7966.7 | 7199.1 | 6389.0 | 5528.0 | 4773.9 | 4254.2 | 3880.6 | 3685.3 | 3612.3 | 3627.6 |
| 8510.2 | 12.5° | 7927.6 | 6918.9 | 5752.1 | 4619.4 | 3817.8 | 3474.7 | 3367.7 | 3369.4 | 3383.0 | 3393.2 |
| 8656.2 | 15°   | 7920.9 | 6580.9 | 5040.5 | 3824.6 | 3301.5 | 3279.4 | 3394.9 | 3467.9 | 3507.0 | 3518.9 |
| 8778.5 | 17.5° | 7910.7 | 6176.7 | 4315.4 | 3282.8 | 3175.8 | 3325.3 | 3432.3 | 3479.8 | 3510.4 | 3512.1 |
| 8897.4 | 20°   | 7869.9 | 5663.8 | 3646.2 | 3024.7 | 3148.6 | 3277.7 | 3343.9 | 3381.3 | 3406.8 | 3415.3 |
| 8987.4 | 22.5° | 7744.2 | 5093.2 | 3124.9 | 2909.2 | 3040.0 | 3143.5 | 3221.7 | 3264.1 | 3279.4 | 3289.6 |
| 9004.4 | 25°   | 7518.4 | 4454.6 | 2764.8 | 2798.8 | 2888.8 | 3019.6 | 3082.4 | 3090.9 | 3085.8 | 3101.1 |
| 8961.9 | 27.5° | 7222.9 | 3770.2 | 2540.7 | 2649.3 | 2764.8 | 2876.9 | 2910.9 | 2905.8 | 2895.6 | 2912.6 |
| 8888.9 | 30°   | 6866.2 | 3155.4 | 2398.0 | 2481.2 | 2639.2 | 2741.1 | 2771.6 | 2759.7 | 2739.4 | 2758.0 |
| 8851.5 | 32.5° | 6489.2 | 2652.7 | 2280.8 | 2364.0 | 2535.6 | 2635.8 | 2666.3 | 2654.4 | 2639.2 | 2654.4 |
| 8894.0 | 35°   | 6137.6 | 2301.2 | 2172.1 | 2285.9 | 2454.0 | 2552.5 | 2591.6 | 2593.3 | 2593.3 | 2612.0 |
| 9006.1 | 37.5° | 5815.0 | 2095.7 | 2082.1 | 2236.7 | 2398.0 | 2486.3 | 2542.4 | 2545.7 | 2472.7 | 2477.8 |
| 9196.3 | 40°   | 5516.1 | 2009.1 | 2041.4 | 2204.4 | 2343.6 | 2428.6 | 2432.0 | 2241.8 | 2107.6 | 2104.2 |
| 9413.7 | 42.5° | 5271.5 | 1992.1 | 2053.2 | 2201.0 | 2304.6 | 2308.0 | 2068.5 | 1920.8 | 1883.4 | 1885.1 |
| 9614.1 | 45°   | 5042.2 | 1987.0 | 2080.4 | 2201.0 | 2246.8 | 1993.8 | 1832.5 | 1793.4 | 1796.8 | 1810.4 |
| 9704.1 | 47.5° | 4785.8 | 1966.6 | 2085.5 | 2170.4 | 2080.4 | 1773.0 | 1725.5 | 1708.5 | 1701.7 | 1705.1 |
| 9683.7 | 50°   | 4505.6 | 1893.6 | 2021.0 | 2109.3 | 1795.1 | 1677.9 | 1618.5 | 1613.4 | 1621.9 | 1627.0 |
| 9569.9 | 52.5° | 4210.1 | 1774.7 | 1910.6 | 1998.9 | 1664.3 | 1594.7 | 1528.5 | 1540.4 | 1577.7 | 1589.6 |
| 9451.0 | 55°   | 4016.5 | 1635.5 | 1764.5 | 1778.1 | 1572.6 | 1516.6 | 1460.5 | 1487.7 | 1557.3 | 1579.4 |
| 9379.7 | 57.5° | 3965.5 | 1487.7 | 1598.1 | 1582.8 | 1455.4 | 1448.6 | 1414.7 | 1438.5 | 1526.8 | 1559.0 |
| 9376.3 | 60°   | 3950.2 | 1355.2 | 1435.1 | 1423.2 | 1341.7 | 1373.9 | 1365.4 | 1377.3 | 1407.9 | 1418.1 |
| 9342.3 | 62.5° | 3831.4 | 1249.9 | 1289.0 | 1272.0 | 1239.8 | 1295.8 | 1316.2 | 1290.7 | 1314.5 | 1326.4 |
| 9109.7 | 65°   | 3529.1 | 1165.0 | 1146.4 | 1134.5 | 1148.0 | 1199.0 | 1239.8 | 1188.8 | 1210.9 | 1244.9 |
| 8213.0 | 67.5° | 3029.8 | 1049.5 | 998.6  | 1012.2 | 1054.6 | 1081.8 | 1134.5 | 1076.7 | 1095.4 | 1153.1 |
| 6614.9 | 70°   | 2450.6 | 903.5  | 857.6  | 896.7  | 937.5  | 993.5  | 1002.0 | 962.9  | 1007.1 | 1071.6 |
| 4036.9 | 72.5° | 1734.0 | 755.7  | 723.5  | 803.3  | 816.9  | 889.9  | 871.2  | 852.5  | 913.7  | 935.8  |
| 1995.5 | 75°   | 1202.4 | 609.7  | 591.0  | 652.1  | 701.4  | 764.2  | 750.6  | 772.7  | 901.8  | 912.0  |
| 996.9  | 77.5° | 760.8  | 473.8  | 461.9  | 501.0  | 568.9  | 638.6  | 660.6  | 912.0  | 1540.4 | 1601.5 |
| 518.0  | 80°   | 441.6  | 353.2  | 339.7  | 370.2  | 429.7  | 494.2  | 636.9  | 1119.2 | 1015.6 | 1003.7 |
| 232.7  | 82.5° | 246.3  | 242.9  | 225.9  | 234.4  | 287.0  | 356.6  | 900.1  | 788.0  | 640.3  | 660.6  |
| 93.4   | 85°   | 115.5  | 142.7  | 122.3  | 117.2  | 161.3  | 417.8  | 601.2  | 450.0  | 298.9  | 292.1  |
| 20.4   | 87.5° | 30.6   | 27.2   | 27.2   | 30.6   | 67.9   | 360.0  | 239.5  | 191.9  | 113.8  | 110.4  |
| 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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