

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: P951322

Luminaire Tested: **GALN-SB5C-735-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951322  
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-SB5C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

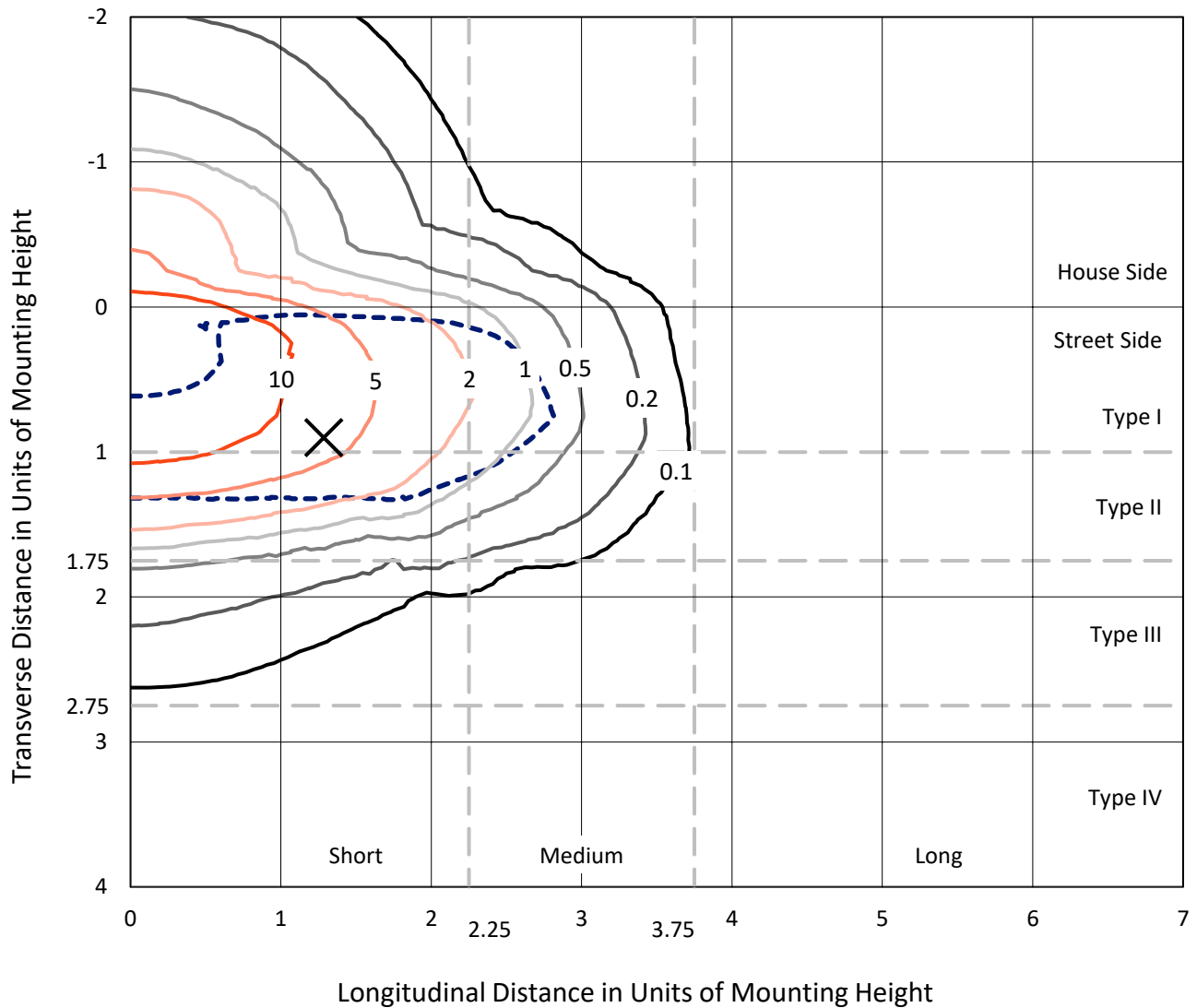
Lumens per Lamp: N/A  
Luminaire Lumens: 38475 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

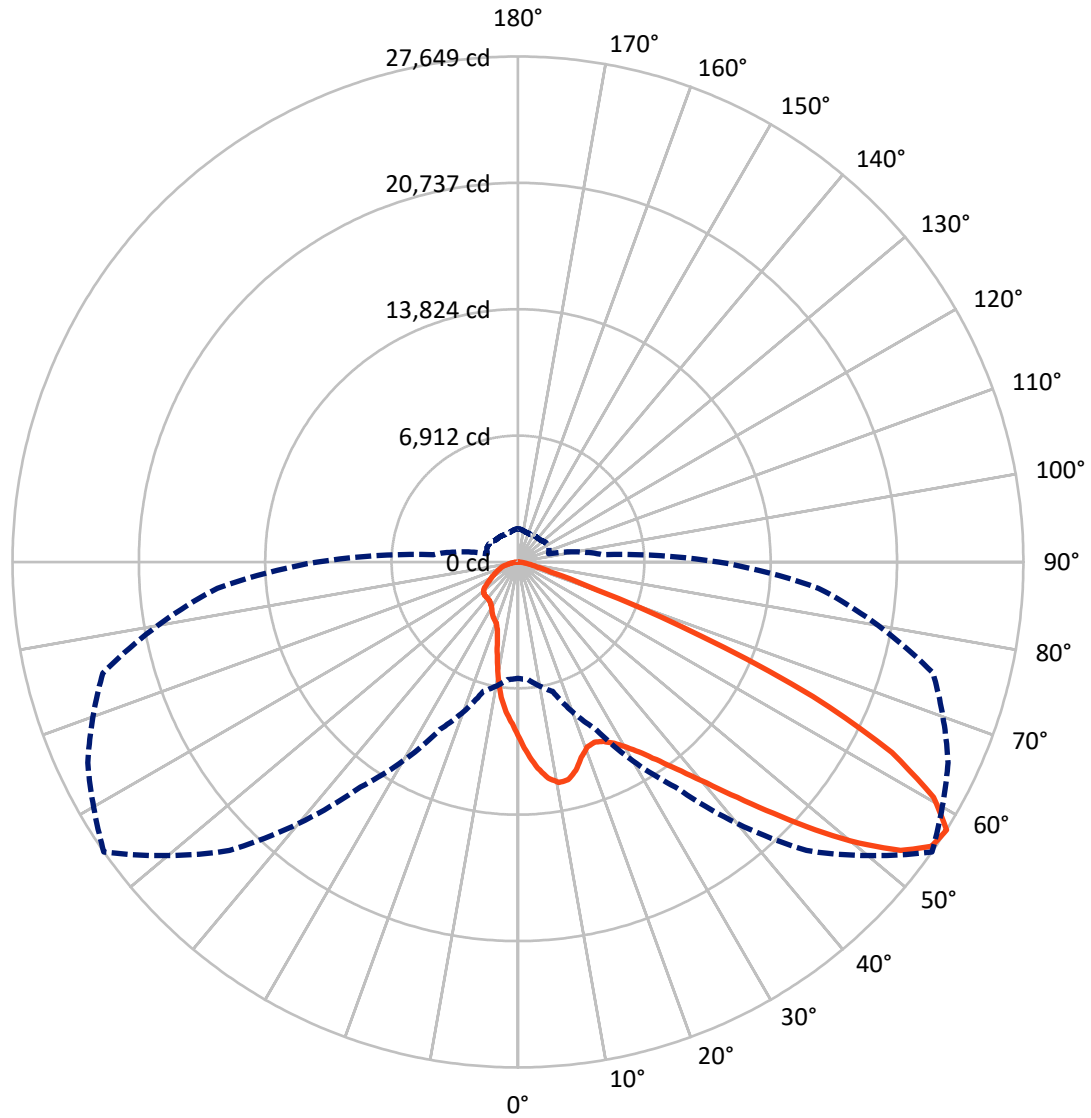
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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    | 6961.9   | 0.0    | 6961.9  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 31513.1  | 0.0    | 31513.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 38475.0  | 0.0    | 38475.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 894.6   | 2.3       |
| 10°-20°   | 2258.0  | 5.9       |
| 20°-30°   | 3603.1  | 9.4       |
| 30°-40°   | 5704.6  | 14.8      |
| 40°-50°   | 8731.5  | 22.7      |
| 50°-60°   | 9352.2  | 24.3      |
| 60°-70°   | 5883.5  | 15.3      |
| 70°-80°   | 1739.9  | 4.5       |
| 80°-90°   | 307.6   | 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°    | 38475.0 | 100.0     |
| 0°-180°   | 38475.0 | 100.0     |

**Coefficient of Utilization**



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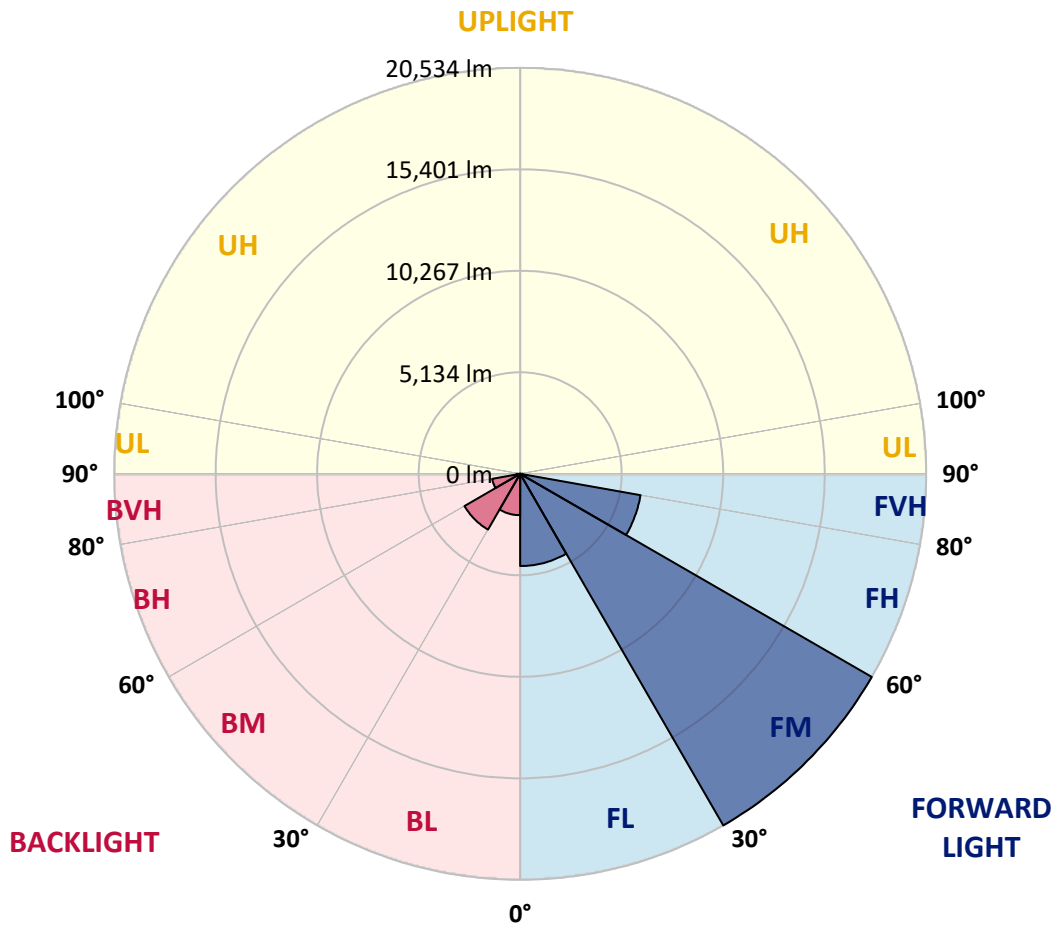
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4663.2  | 12.1      |                         |      |         |
| FM (30°-60°)   | 20534.4 | 53.4      |                         |      |         |
| FH (60°-80°)   | 6185.6  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 130.0   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 2092.5  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3253.9  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1437.8  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 177.7   | 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°    | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  | 9640.6  |
| 2.5°  | 11060.7 | 11052.8 | 11096.5 | 10947.3 | 10845.9 | 10708.7 | 10527.7 | 10296.9 | 10048.3 | 9785.8  |
| 5°    | 12057.2 | 11987.6 | 12033.3 | 11921.9 | 11810.6 | 11603.7 | 11335.2 | 10959.3 | 10499.8 | 9976.7  |
| 7.5°  | 11900.1 | 11852.3 | 11969.7 | 12069.1 | 12152.7 | 12126.8 | 11929.9 | 11536.1 | 10943.4 | 10183.6 |
| 10°   | 10633.1 | 10579.4 | 10744.5 | 11088.6 | 11593.8 | 12033.3 | 12272.0 | 12027.4 | 11396.9 | 10410.3 |
| 12.5° | 9515.3  | 9489.4  | 9598.8  | 9877.3  | 10438.2 | 11281.5 | 12228.2 | 12457.0 | 11868.2 | 10678.8 |
| 15°   | 9037.9  | 9006.1  | 9075.7  | 9216.9  | 9574.9  | 10360.6 | 11830.5 | 12751.4 | 12331.7 | 10989.1 |
| 17.5° | 8932.5  | 8896.7  | 8926.5  | 9000.1  | 9230.9  | 9829.5  | 11229.8 | 12896.5 | 12815.0 | 11335.2 |
| 20°   | 9127.4  | 9097.6  | 9101.6  | 9097.6  | 9258.7  | 9734.1  | 10812.1 | 12840.9 | 13236.7 | 11653.4 |
| 22.5° | 9598.8  | 9549.1  | 9551.1  | 9445.7  | 9533.2  | 9901.1  | 10702.7 | 12691.7 | 13612.6 | 11931.9 |
| 25°   | 10366.6 | 10277.1 | 10295.0 | 10026.4 | 10002.6 | 10275.1 | 10873.8 | 12576.3 | 13986.5 | 12154.7 |
| 27.5° | 11416.7 | 11315.3 | 11261.6 | 10861.8 | 10670.9 | 10806.1 | 11221.8 | 12616.1 | 14340.5 | 12347.6 |
| 30°   | 12729.5 | 12606.2 | 12496.8 | 11929.9 | 11583.8 | 11534.1 | 11762.8 | 12878.6 | 14758.2 | 12550.5 |
| 32.5° | 14338.6 | 14195.4 | 13996.5 | 13244.6 | 12757.3 | 12496.8 | 12462.9 | 13346.1 | 15247.5 | 12809.0 |
| 35°   | 16253.9 | 16067.0 | 15784.5 | 14811.9 | 14195.4 | 13662.3 | 13385.8 | 14020.3 | 15917.8 | 13198.9 |
| 37.5° | 18227.0 | 18016.2 | 17757.6 | 16600.0 | 15842.2 | 15056.6 | 14511.6 | 14935.3 | 16810.9 | 13727.9 |
| 40°   | 20046.9 | 19810.2 | 19569.6 | 18539.3 | 17725.8 | 16779.0 | 15890.0 | 16092.8 | 17902.8 | 14360.4 |
| 42.5° | 21121.0 | 20945.9 | 20854.5 | 20297.5 | 19669.0 | 18708.3 | 17604.5 | 17465.2 | 19130.0 | 15088.4 |
| 45°   | 21073.2 | 21001.6 | 21284.1 | 21514.8 | 21365.6 | 20832.6 | 19613.3 | 18982.8 | 20361.2 | 15718.9 |
| 47.5° | 19947.5 | 19995.2 | 20625.7 | 21922.5 | 22493.4 | 22771.8 | 21900.7 | 20472.6 | 21431.3 | 16190.3 |
| 50°   | 16884.5 | 16924.2 | 18384.1 | 21180.6 | 22783.8 | 24353.1 | 24170.1 | 21926.5 | 22260.7 | 16478.7 |
| 52.5° | 14459.9 | 14485.7 | 15112.3 | 18980.8 | 21825.1 | 25148.7 | 26214.8 | 23296.9 | 22867.3 | 16558.3 |
| 55°   | 10891.7 | 10981.2 | 11683.3 | 14891.5 | 19330.9 | 24518.2 | 27459.9 | 24709.1 | 23251.2 | 16566.2 |
| 57.5° | 6362.7  | 6460.2  | 7327.4  | 10108.0 | 15024.8 | 22320.3 | 27648.8 | 25962.2 | 23511.7 | 16502.6 |
| 60°   | 3116.7  | 3158.5  | 3536.4  | 5312.6  | 9264.7  | 18085.8 | 26129.2 | 26568.8 | 23656.9 | 16468.8 |
| 62.5° | 2100.4  | 2094.4  | 2110.3  | 2621.5  | 4564.7  | 11619.6 | 22962.8 | 25506.7 | 23579.4 | 16339.5 |
| 65°   | 1806.0  | 1784.1  | 1724.4  | 1839.8  | 2364.9  | 5314.6  | 17741.7 | 22336.2 | 22988.6 | 16015.3 |
| 67.5° | 1561.3  | 1563.3  | 1565.3  | 1529.5  | 1688.6  | 2452.4  | 10841.9 | 17594.5 | 20868.4 | 14479.8 |
| 70°   | 1292.8  | 1310.7  | 1318.7  | 1318.7  | 1376.4  | 1609.1  | 4628.4  | 12059.2 | 16460.8 | 11353.1 |
| 72.5° | 1177.5  | 1139.7  | 1143.7  | 1123.8  | 1123.8  | 1225.2  | 1863.7  | 6836.1  | 10370.5 | 6386.6  |
| 75°   | 960.7   | 984.5   | 988.5   | 974.6   | 928.9   | 934.8   | 1105.9  | 2868.1  | 4437.4  | 2649.3  |
| 77.5° | 829.4   | 829.4   | 837.4   | 827.4   | 791.6   | 700.1   | 737.9   | 1111.8  | 1509.6  | 1086.0  |
| 80°   | 666.3   | 664.3   | 698.1   | 718.0   | 662.3   | 517.1   | 471.4   | 614.6   | 670.3   | 477.4   |
| 82.5° | 324.2   | 344.1   | 479.3   | 547.0   | 503.2   | 373.9   | 288.4   | 381.9   | 358.0   | 210.8   |
| 85°   | 189.0   | 179.0   | 214.8   | 304.3   | 288.4   | 206.9   | 139.2   | 198.9   | 187.0   | 107.4   |
| 87.5° | 59.7    | 55.7    | 43.8    | 103.4   | 83.5    | 57.7    | 37.8    | 57.7    | 51.7    | 23.9    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9640.6  | 0°    | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 | 9640.6 |
| 9672.4  | 2.5°  | 9531.2 | 9296.5 | 9063.8 | 8851.0 | 8721.7 | 8638.1 | 8554.6 | 8461.1 | 8425.3 | 8371.6 |
| 9698.3  | 5°    | 9435.7 | 8982.2 | 8578.5 | 8230.4 | 7914.2 | 7665.5 | 7414.9 | 7212.0 | 7120.5 | 7182.2 |
| 9779.8  | 7.5°  | 9380.0 | 8723.7 | 8101.1 | 7462.7 | 6848.1 | 6356.8 | 5929.1 | 5628.8 | 5493.6 | 5527.4 |
| 9859.4  | 10°   | 9330.3 | 8431.3 | 7482.5 | 6474.1 | 5591.0 | 4982.4 | 4544.8 | 4316.1 | 4230.6 | 4248.5 |
| 9966.8  | 12.5° | 9284.6 | 8103.1 | 6736.7 | 5410.0 | 4471.2 | 4069.5 | 3944.1 | 3946.1 | 3962.0 | 3974.0 |
| 10137.8 | 15°   | 9276.6 | 7707.3 | 5903.3 | 4479.2 | 3866.6 | 3840.7 | 3976.0 | 4061.5 | 4107.2 | 4121.2 |
| 10281.0 | 17.5° | 9264.7 | 7233.9 | 5054.0 | 3844.7 | 3719.4 | 3894.4 | 4019.7 | 4075.4 | 4111.2 | 4113.2 |
| 10420.3 | 20°   | 9216.9 | 6633.2 | 4270.3 | 3542.4 | 3687.6 | 3838.7 | 3916.3 | 3960.1 | 3989.9 | 3999.8 |
| 10525.7 | 22.5° | 9069.7 | 5965.0 | 3659.7 | 3407.1 | 3560.3 | 3681.6 | 3773.1 | 3822.8 | 3840.7 | 3852.7 |
| 10545.6 | 25°   | 8805.2 | 5217.1 | 3238.1 | 3277.8 | 3383.3 | 3536.4 | 3610.0 | 3619.9 | 3614.0 | 3631.9 |
| 10495.8 | 27.5° | 8459.1 | 4415.5 | 2975.5 | 3102.8 | 3238.1 | 3369.3 | 3409.1 | 3403.1 | 3391.2 | 3411.1 |
| 10410.3 | 30°   | 8041.4 | 3695.5 | 2808.4 | 2905.9 | 3090.9 | 3210.2 | 3246.0 | 3232.1 | 3208.2 | 3230.1 |
| 10366.6 | 32.5° | 7599.9 | 3106.8 | 2671.2 | 2768.7 | 2969.5 | 3086.9 | 3122.7 | 3108.8 | 3090.9 | 3108.8 |
| 10416.3 | 35°   | 7188.2 | 2695.1 | 2543.9 | 2677.2 | 2874.1 | 2989.4 | 3035.2 | 3037.2 | 3037.2 | 3059.1 |
| 10547.6 | 37.5° | 6810.3 | 2454.4 | 2438.5 | 2619.5 | 2808.4 | 2911.9 | 2977.5 | 2981.5 | 2896.0 | 2901.9 |
| 10770.3 | 40°   | 6460.2 | 2353.0 | 2390.8 | 2581.7 | 2744.8 | 2844.2 | 2848.2 | 2625.5 | 2468.3 | 2464.3 |
| 11024.9 | 42.5° | 6173.8 | 2333.1 | 2404.7 | 2577.7 | 2699.0 | 2703.0 | 2422.6 | 2249.5 | 2205.8 | 2207.8 |
| 11259.6 | 45°   | 5905.3 | 2327.1 | 2436.5 | 2577.7 | 2631.4 | 2335.1 | 2146.1 | 2100.4 | 2104.3 | 2120.3 |
| 11365.0 | 47.5° | 5604.9 | 2303.2 | 2442.5 | 2541.9 | 2436.5 | 2076.5 | 2020.8 | 2000.9 | 1993.0 | 1996.9 |
| 11341.2 | 50°   | 5276.8 | 2217.7 | 2366.9 | 2470.3 | 2102.4 | 1965.1 | 1895.5 | 1889.5 | 1899.5 | 1905.4 |
| 11207.9 | 52.5° | 4930.7 | 2078.5 | 2237.6 | 2341.0 | 1949.2 | 1867.7 | 1790.1 | 1804.0 | 1847.8 | 1861.7 |
| 11068.7 | 55°   | 4703.9 | 1915.4 | 2066.6 | 2082.5 | 1841.8 | 1776.2 | 1710.5 | 1742.3 | 1823.9 | 1849.8 |
| 10985.1 | 57.5° | 4644.3 | 1742.3 | 1871.6 | 1853.7 | 1704.6 | 1696.6 | 1656.8 | 1684.7 | 1788.1 | 1825.9 |
| 10981.2 | 60°   | 4626.4 | 1587.2 | 1680.7 | 1666.8 | 1571.3 | 1609.1 | 1599.1 | 1613.1 | 1648.9 | 1660.8 |
| 10941.4 | 62.5° | 4487.1 | 1463.9 | 1509.6 | 1489.7 | 1452.0 | 1517.6 | 1541.5 | 1511.6 | 1539.5 | 1553.4 |
| 10668.9 | 65°   | 4133.1 | 1364.4 | 1342.6 | 1328.6 | 1344.6 | 1404.2 | 1452.0 | 1392.3 | 1418.1 | 1457.9 |
| 9618.7  | 67.5° | 3548.3 | 1229.2 | 1169.5 | 1185.4 | 1235.2 | 1267.0 | 1328.6 | 1261.0 | 1282.9 | 1350.5 |
| 7747.1  | 70°   | 2870.1 | 1058.1 | 1004.4 | 1050.2 | 1097.9 | 1163.6 | 1173.5 | 1127.8 | 1179.5 | 1255.0 |
| 4727.8  | 72.5° | 2030.7 | 885.1  | 847.3  | 940.8  | 956.7  | 1042.2 | 1020.3 | 998.5  | 1070.1 | 1095.9 |
| 2337.1  | 75°   | 1408.2 | 714.0  | 692.2  | 763.8  | 821.4  | 895.0  | 879.1  | 905.0  | 1056.1 | 1068.1 |
| 1167.5  | 77.5° | 891.1  | 554.9  | 541.0  | 586.7  | 666.3  | 747.9  | 773.7  | 1068.1 | 1804.0 | 1875.6 |
| 606.6   | 80°   | 517.1  | 413.7  | 397.8  | 433.6  | 503.2  | 578.8  | 745.9  | 1310.7 | 1189.4 | 1175.5 |
| 272.5   | 82.5° | 288.4  | 284.4  | 264.5  | 274.5  | 336.1  | 417.7  | 1054.2 | 922.9  | 749.8  | 773.7  |
| 109.4   | 85°   | 135.3  | 167.1  | 143.2  | 137.2  | 189.0  | 489.3  | 704.1  | 527.1  | 350.1  | 342.1  |
| 23.9    | 87.5° | 35.8   | 31.8   | 31.8   | 35.8   | 79.6   | 421.7  | 280.4  | 224.8  | 133.3  | 129.3  |
| 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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