

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: P956866

Luminaire Tested: **GALN-SB9B-927-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956866  
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-SB9B-927-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

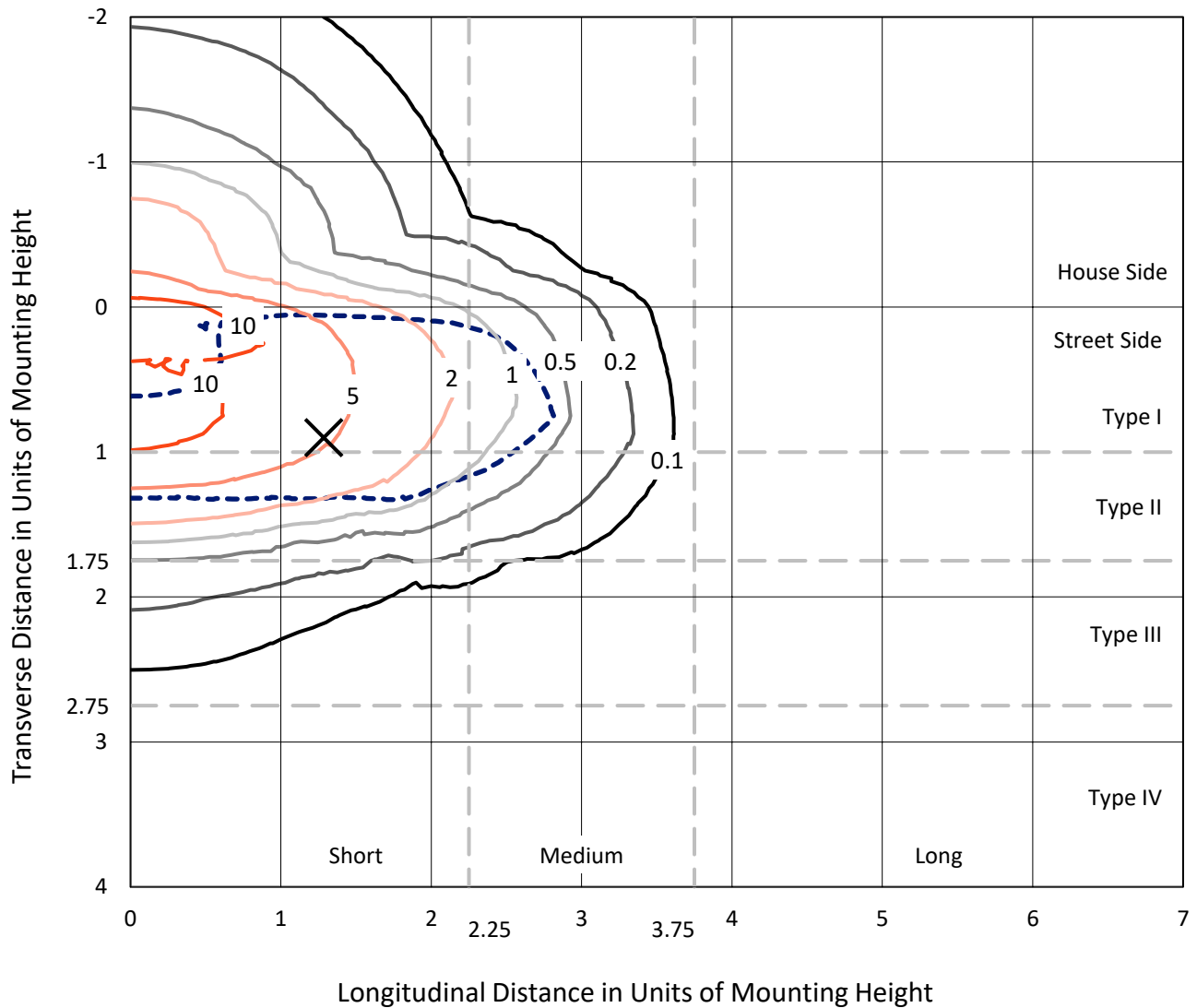
Lumens per Lamp: N/A  
Luminaire Lumens: 31751 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

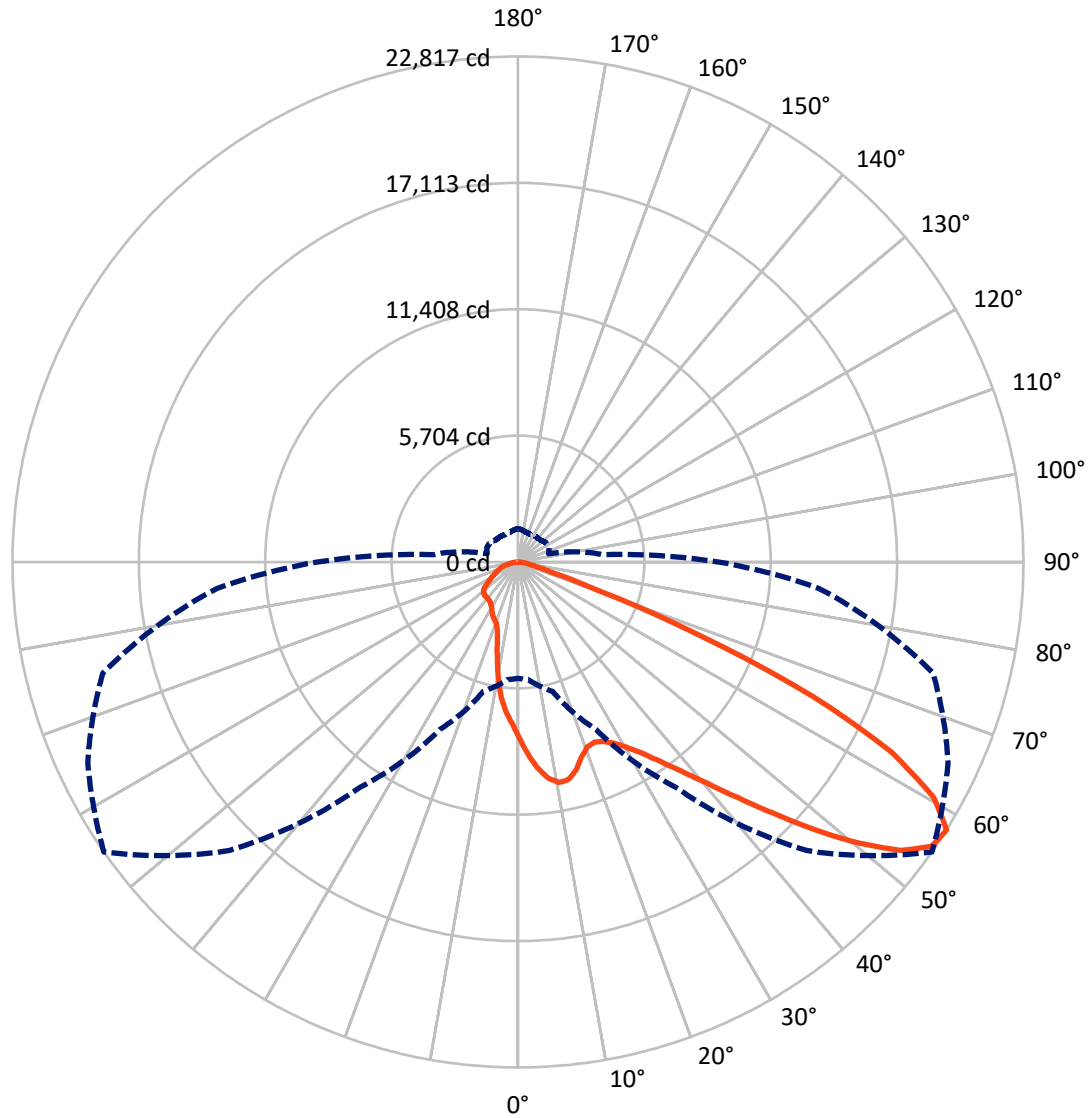
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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    | 5745.2   | 0.0    | 5745.2  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 26005.8  | 0.0    | 26005.8 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 31751.0  | 0.0    | 31751.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 738.2   | 2.3       |
| 10°-20°   | 1863.4  | 5.9       |
| 20°-30°   | 2973.4  | 9.4       |
| 30°-40°   | 4707.6  | 14.8      |
| 40°-50°   | 7205.5  | 22.7      |
| 50°-60°   | 7717.8  | 24.3      |
| 60°-70°   | 4855.3  | 15.3      |
| 70°-80°   | 1435.8  | 4.5       |
| 80°-90°   | 253.9   | 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°    | 31751.0 | 100.0     |
| 0°-180°   | 31751.0 | 100.0     |



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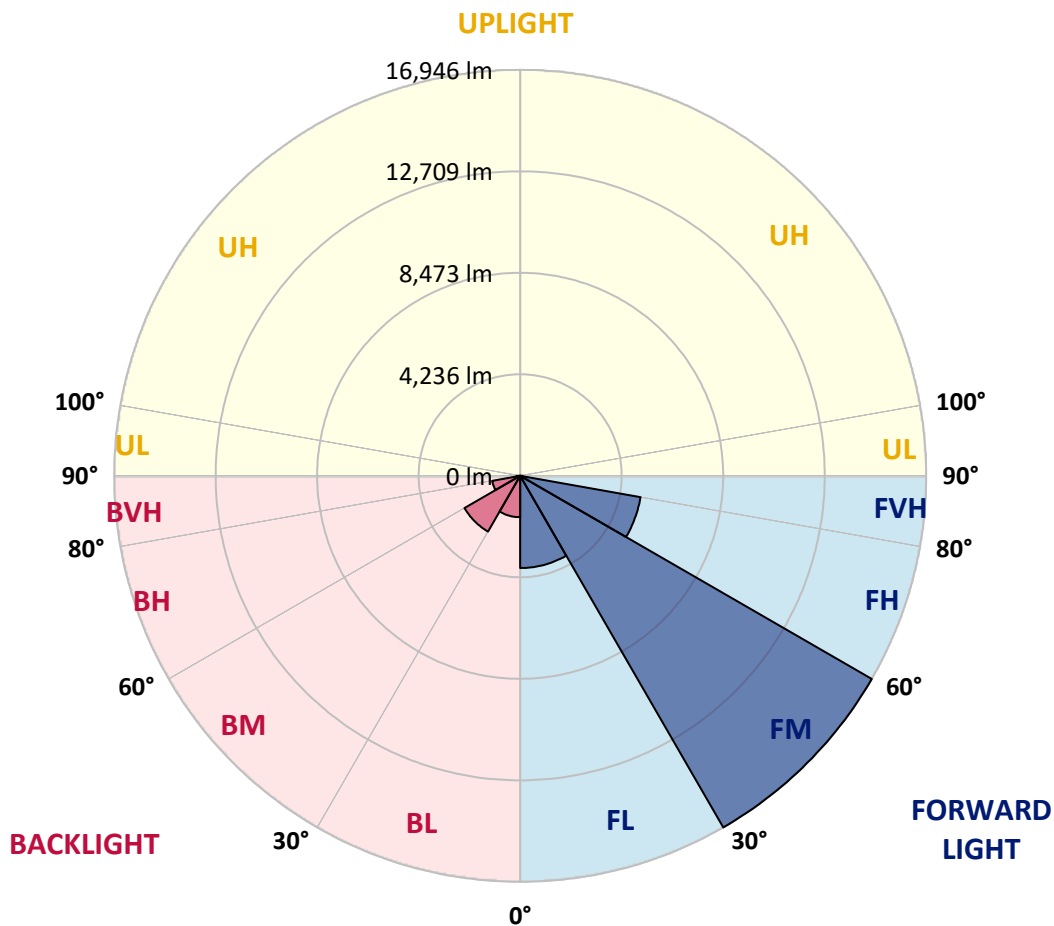
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3848.2  | 12.1      |                         |      |         |
| FM (30°-60°)   | 16945.7 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5104.6  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 107.3   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1726.8  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2685.2  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1186.5  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 146.6   | 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°    | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  | 7955.8  |
| 2.5°  | 9127.7  | 9121.1  | 9157.3  | 9034.2  | 8950.4  | 8837.2  | 8687.8  | 8497.4  | 8292.3  | 8075.6  |
| 5°    | 9950.0  | 9892.6  | 9930.4  | 9838.4  | 9746.5  | 9575.8  | 9354.2  | 9044.0  | 8664.8  | 8233.2  |
| 7.5°  | 9820.4  | 9781.0  | 9877.8  | 9959.9  | 10028.8 | 10007.5 | 9845.0  | 9520.0  | 9030.9  | 8403.9  |
| 10°   | 8774.8  | 8730.5  | 8866.7  | 9150.7  | 9567.6  | 9930.4  | 10127.3 | 9925.4  | 9405.1  | 8591.0  |
| 12.5° | 7852.4  | 7831.0  | 7921.3  | 8151.1  | 8614.0  | 9309.9  | 10091.2 | 10280.0 | 9794.1  | 8812.6  |
| 15°   | 7458.4  | 7432.2  | 7489.6  | 7606.2  | 7901.6  | 8549.9  | 9762.9  | 10522.9 | 10176.6 | 9068.6  |
| 17.5° | 7371.4  | 7341.9  | 7366.5  | 7427.2  | 7617.6  | 8111.7  | 9267.2  | 10642.7 | 10575.4 | 9354.2  |
| 20°   | 7532.3  | 7507.7  | 7511.0  | 7507.7  | 7640.6  | 8032.9  | 8922.5  | 10596.8 | 10923.4 | 9616.8  |
| 22.5° | 7921.3  | 7880.3  | 7881.9  | 7794.9  | 7867.1  | 8170.8  | 8832.3  | 10473.6 | 11233.6 | 9846.6  |
| 25°   | 8554.9  | 8481.0  | 8495.8  | 8274.2  | 8254.5  | 8479.4  | 8973.4  | 10378.4 | 11542.2 | 10030.5 |
| 27.5° | 9421.5  | 9337.8  | 9293.5  | 8963.6  | 8806.0  | 8917.6  | 9260.7  | 10411.3 | 11834.4 | 10189.7 |
| 30°   | 10504.8 | 10403.1 | 10312.8 | 9845.0  | 9559.4  | 9518.4  | 9707.1  | 10627.9 | 12179.0 | 10357.1 |
| 32.5° | 11832.7 | 11714.5 | 11550.4 | 10930.0 | 10527.8 | 10312.8 | 10284.9 | 11013.7 | 12582.8 | 10570.5 |
| 35°   | 13413.4 | 13259.1 | 13026.0 | 12223.4 | 11714.5 | 11274.6 | 11046.5 | 11570.1 | 13136.0 | 10892.2 |
| 37.5° | 15041.6 | 14867.6 | 14654.2 | 13699.0 | 13073.6 | 12425.2 | 11975.5 | 12325.1 | 13872.9 | 11328.8 |
| 40°   | 16543.5 | 16348.1 | 16149.5 | 15299.3 | 14628.0 | 13846.7 | 13113.0 | 13280.4 | 14774.1 | 11850.8 |
| 42.5° | 17429.8 | 17285.4 | 17209.9 | 16750.3 | 16231.6 | 15438.8 | 14527.9 | 14413.0 | 15786.8 | 12451.5 |
| 45°   | 17390.4 | 17331.3 | 17564.4 | 17754.8 | 17631.7 | 17191.8 | 16185.7 | 15665.3 | 16802.8 | 12971.8 |
| 47.5° | 16461.4 | 16500.8 | 17021.1 | 18091.3 | 18562.4 | 18792.2 | 18073.2 | 16894.7 | 17685.9 | 13360.8 |
| 50°   | 13933.7 | 13966.5 | 15171.3 | 17479.1 | 18802.0 | 20097.1 | 19946.1 | 18094.6 | 18370.3 | 13598.8 |
| 52.5° | 11932.8 | 11954.2 | 12471.2 | 15663.7 | 18010.9 | 20753.6 | 21633.4 | 19225.5 | 18870.9 | 13664.5 |
| 55°   | 8988.2  | 9062.1  | 9641.5  | 12289.0 | 15952.6 | 20233.3 | 22660.9 | 20390.9 | 19187.7 | 13671.1 |
| 57.5° | 5250.8  | 5331.2  | 6046.8  | 8341.5  | 12399.0 | 18419.6 | 22816.8 | 21424.9 | 19402.8 | 13618.5 |
| 60°   | 2572.0  | 2606.5  | 2918.4  | 4384.1  | 7645.5  | 14925.1 | 21562.8 | 21925.6 | 19522.6 | 13590.6 |
| 62.5° | 1733.3  | 1728.4  | 1741.5  | 2163.3  | 3767.0  | 9588.9  | 18949.7 | 21049.1 | 19458.6 | 13483.9 |
| 65°   | 1490.4  | 1472.3  | 1423.1  | 1518.3  | 1951.6  | 4385.8  | 14641.1 | 18432.7 | 18971.1 | 13216.4 |
| 67.5° | 1288.5  | 1290.1  | 1291.8  | 1262.2  | 1393.5  | 2023.8  | 8947.2  | 14519.6 | 17221.4 | 11949.2 |
| 70°   | 1066.9  | 1081.7  | 1088.2  | 1088.2  | 1135.8  | 1327.9  | 3819.5  | 9951.7  | 13584.1 | 9369.0  |
| 72.5° | 971.7   | 940.5   | 943.8   | 927.4   | 927.4   | 1011.1  | 1538.0  | 5641.4  | 8558.2  | 5270.5  |
| 75°   | 792.8   | 812.5   | 815.8   | 804.3   | 766.5   | 771.4   | 912.6   | 2366.9  | 3661.9  | 2186.3  |
| 77.5° | 684.5   | 684.5   | 691.0   | 682.8   | 653.3   | 577.8   | 609.0   | 917.5   | 1245.8  | 896.2   |
| 80°   | 549.9   | 548.2   | 576.1   | 592.5   | 546.6   | 426.8   | 389.0   | 507.2   | 553.1   | 393.9   |
| 82.5° | 267.5   | 284.0   | 395.6   | 451.4   | 415.3   | 308.6   | 238.0   | 315.1   | 295.4   | 174.0   |
| 85°   | 155.9   | 147.7   | 177.3   | 251.1   | 238.0   | 170.7   | 114.9   | 164.1   | 154.3   | 88.6    |
| 87.5° | 49.2    | 46.0    | 36.1    | 85.4    | 68.9    | 47.6    | 31.2    | 47.6    | 42.7    | 19.7    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7955.8 | 0°    | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 | 7955.8 |
| 7982.0 | 2.5°  | 7865.5 | 7671.8 | 7479.8 | 7304.1 | 7197.5 | 7128.5 | 7059.6 | 6982.4 | 6952.9 | 6908.6 |
| 8003.4 | 5°    | 7786.7 | 7412.5 | 7079.3 | 6792.0 | 6531.1 | 6325.9 | 6119.1 | 5951.6 | 5876.1 | 5927.0 |
| 8070.7 | 7.5°  | 7740.7 | 7199.1 | 6685.3 | 6158.5 | 5651.3 | 5245.9 | 4893.0 | 4645.1 | 4533.5 | 4561.4 |
| 8136.3 | 10°   | 7699.7 | 6957.8 | 6174.9 | 5342.7 | 4613.9 | 4111.7 | 3750.6 | 3561.8 | 3491.2 | 3506.0 |
| 8225.0 | 12.5° | 7662.0 | 6687.0 | 5559.4 | 4464.6 | 3689.8 | 3358.3 | 3254.9 | 3256.5 | 3269.6 | 3279.5 |
| 8366.1 | 15°   | 7655.4 | 6360.3 | 4871.6 | 3696.4 | 3190.8 | 3169.5 | 3281.1 | 3351.7 | 3389.5 | 3400.9 |
| 8484.3 | 17.5° | 7645.5 | 5969.7 | 4170.7 | 3172.8 | 3069.4 | 3213.8 | 3317.2 | 3363.2 | 3392.7 | 3394.4 |
| 8599.2 | 20°   | 7606.2 | 5474.0 | 3524.0 | 2923.3 | 3043.1 | 3167.9 | 3231.9 | 3268.0 | 3292.6 | 3300.8 |
| 8686.2 | 22.5° | 7484.7 | 4922.5 | 3020.1 | 2811.7 | 2938.1 | 3038.2 | 3113.7 | 3154.7 | 3169.5 | 3179.4 |
| 8702.6 | 25°   | 7266.4 | 4305.3 | 2672.2 | 2705.0 | 2792.0 | 2918.4 | 2979.1 | 2987.3 | 2982.4 | 2997.2 |
| 8661.6 | 27.5° | 6980.8 | 3643.9 | 2455.5 | 2560.6 | 2672.2 | 2780.5 | 2813.3 | 2808.4 | 2798.6 | 2815.0 |
| 8591.0 | 30°   | 6636.1 | 3049.7 | 2317.6 | 2398.1 | 2550.7 | 2649.2 | 2678.7 | 2667.2 | 2647.5 | 2665.6 |
| 8554.9 | 32.5° | 6271.7 | 2563.8 | 2204.4 | 2284.8 | 2450.6 | 2547.4 | 2577.0 | 2565.5 | 2550.7 | 2565.5 |
| 8595.9 | 35°   | 5931.9 | 2224.1 | 2099.3 | 2209.3 | 2371.8 | 2467.0 | 2504.7 | 2506.4 | 2506.4 | 2524.4 |
| 8704.2 | 37.5° | 5620.1 | 2025.5 | 2012.3 | 2161.7 | 2317.6 | 2403.0 | 2457.1 | 2460.4 | 2389.8 | 2394.8 |
| 8888.1 | 40°   | 5331.2 | 1941.8 | 1972.9 | 2130.5 | 2265.1 | 2347.2 | 2350.5 | 2166.6 | 2037.0 | 2033.7 |
| 9098.2 | 42.5° | 5094.8 | 1925.3 | 1984.4 | 2127.2 | 2227.4 | 2230.6 | 1999.2 | 1856.4 | 1820.3 | 1821.9 |
| 9291.9 | 45°   | 4873.3 | 1920.4 | 2010.7 | 2127.2 | 2171.5 | 1927.0 | 1771.0 | 1733.3 | 1736.6 | 1749.7 |
| 9378.8 | 47.5° | 4625.4 | 1900.7 | 2015.6 | 2097.7 | 2010.7 | 1713.6 | 1667.6 | 1651.2 | 1644.7 | 1647.9 |
| 9359.2 | 50°   | 4354.6 | 1830.1 | 1953.2 | 2038.6 | 1734.9 | 1621.7 | 1564.2 | 1559.3 | 1567.5 | 1572.4 |
| 9249.2 | 52.5° | 4069.0 | 1715.2 | 1846.6 | 1931.9 | 1608.6 | 1541.3 | 1477.2 | 1488.7 | 1524.8 | 1536.3 |
| 9134.3 | 55°   | 3881.9 | 1580.6 | 1705.4 | 1718.5 | 1519.9 | 1465.8 | 1411.6 | 1437.8 | 1505.1 | 1526.5 |
| 9065.3 | 57.5° | 3832.6 | 1437.8 | 1544.5 | 1529.8 | 1406.7 | 1400.1 | 1367.3 | 1390.2 | 1475.6 | 1506.8 |
| 9062.1 | 60°   | 3817.9 | 1309.8 | 1387.0 | 1375.5 | 1296.7 | 1327.9 | 1319.7 | 1331.2 | 1360.7 | 1370.6 |
| 9029.2 | 62.5° | 3703.0 | 1208.1 | 1245.8 | 1229.4 | 1198.2 | 1252.4 | 1272.1 | 1247.4 | 1270.4 | 1281.9 |
| 8804.4 | 65°   | 3410.8 | 1126.0 | 1107.9 | 1096.4 | 1109.6 | 1158.8 | 1198.2 | 1149.0 | 1170.3 | 1203.1 |
| 7937.7 | 67.5° | 2928.2 | 1014.4 | 965.1  | 978.3  | 1019.3 | 1045.6 | 1096.4 | 1040.6 | 1058.7 | 1114.5 |
| 6393.2 | 70°   | 2368.5 | 873.2  | 828.9  | 866.6  | 906.0  | 960.2  | 968.4  | 930.7  | 973.3  | 1035.7 |
| 3901.6 | 72.5° | 1675.8 | 730.4  | 699.2  | 776.4  | 789.5  | 860.1  | 842.0  | 824.0  | 883.1  | 904.4  |
| 1928.6 | 75°   | 1162.1 | 589.3  | 571.2  | 630.3  | 677.9  | 738.6  | 725.5  | 746.8  | 871.6  | 881.4  |
| 963.5  | 77.5° | 735.3  | 457.9  | 446.5  | 484.2  | 549.9  | 617.2  | 638.5  | 881.4  | 1488.7 | 1547.8 |
| 500.6  | 80°   | 426.8  | 341.4  | 328.3  | 357.8  | 415.3  | 477.6  | 615.5  | 1081.7 | 981.5  | 970.1  |
| 224.9  | 82.5° | 238.0  | 234.7  | 218.3  | 226.5  | 277.4  | 344.7  | 869.9  | 761.6  | 618.8  | 638.5  |
| 90.3   | 85°   | 111.6  | 137.9  | 118.2  | 113.3  | 155.9  | 403.8  | 581.0  | 435.0  | 288.9  | 282.3  |
| 19.7   | 87.5° | 29.5   | 26.3   | 26.3   | 29.5   | 65.7   | 348.0  | 231.4  | 185.5  | 110.0  | 106.7  |
| 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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