

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: P953548

Luminaire Tested: **GALN-SB7A-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953548  
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-SB7A-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

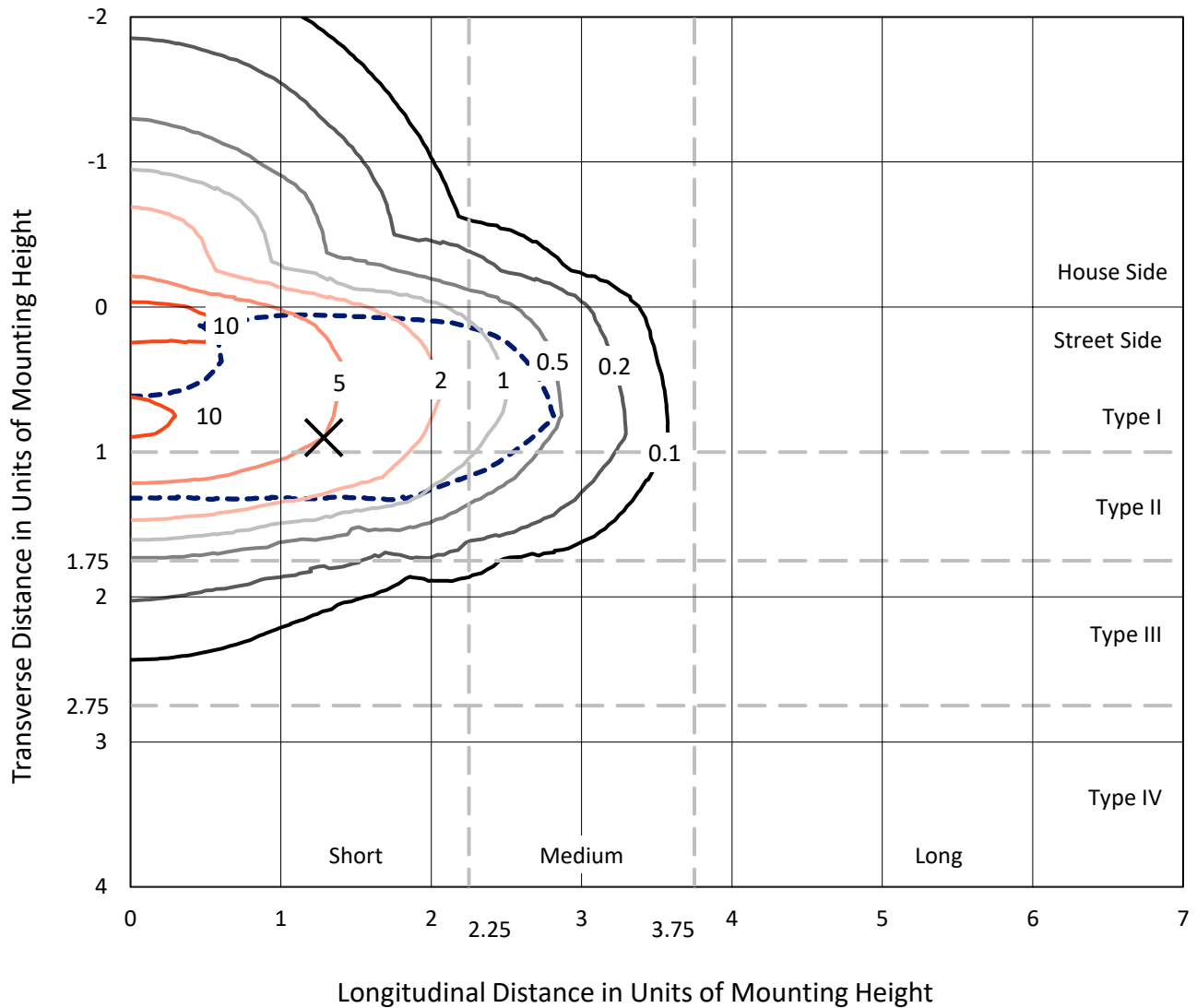
Lumens per Lamp: N/A  
Luminaire Lumens: 28213 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

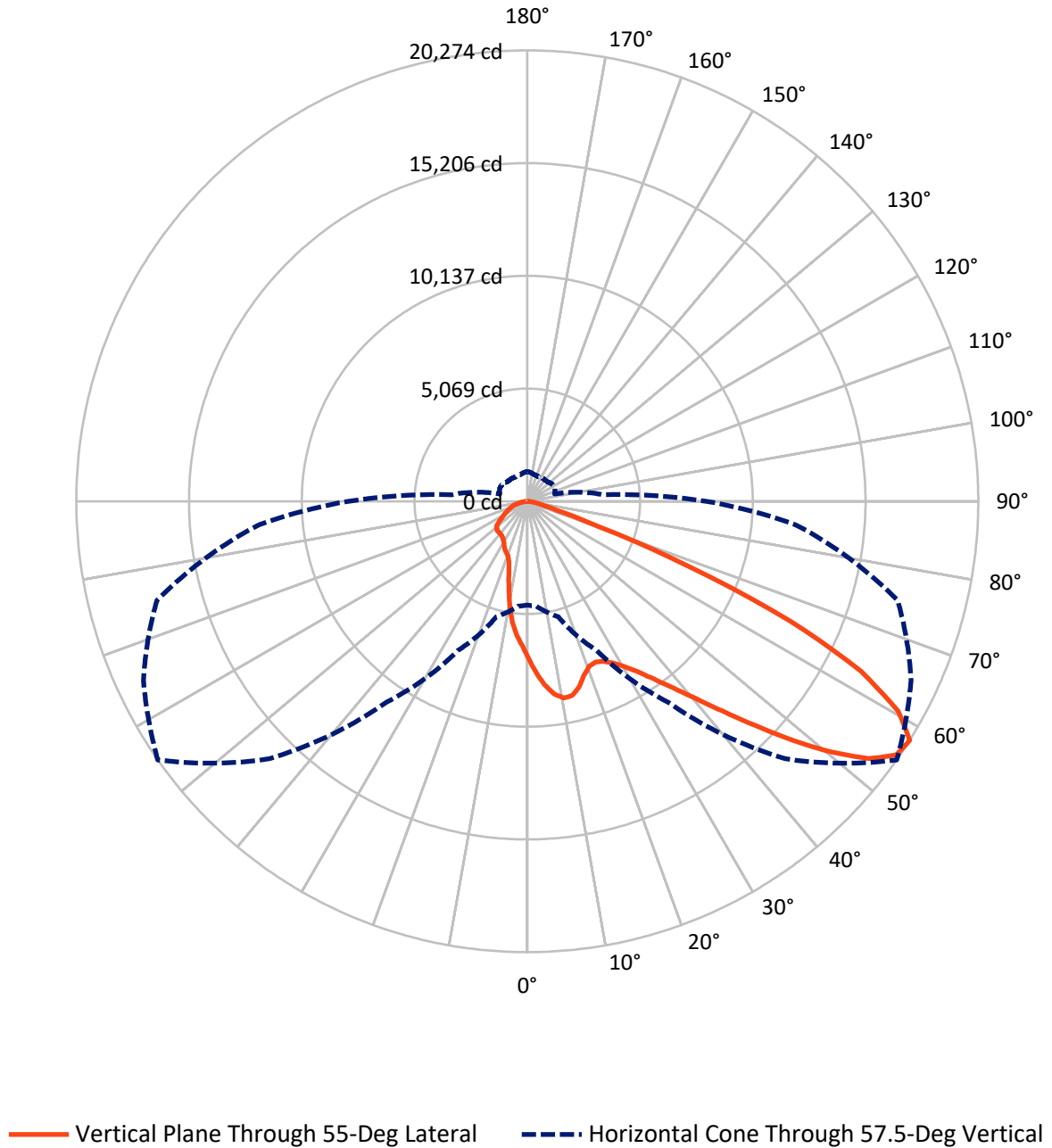
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5105.0   | 0.0    | 5105.0  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 23108.0  | 0.0    | 23108.0 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 28213.0  | 0.0    | 28213.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 656.0   | 2.3       |
| 10°-20°   | 1655.7  | 5.9       |
| 20°-30°   | 2642.1  | 9.4       |
| 30°-40°   | 4183.1  | 14.8      |
| 40°-50°   | 6402.6  | 22.7      |
| 50°-60°   | 6857.8  | 24.3      |
| 60°-70°   | 4314.3  | 15.3      |
| 70°-80°   | 1275.8  | 4.5       |
| 80°-90°   | 225.6   | 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°    | 28213.0 | 100.0     |
| 0°-180°   | 28213.0 | 100.0     |

**Coefficient of Utilization**



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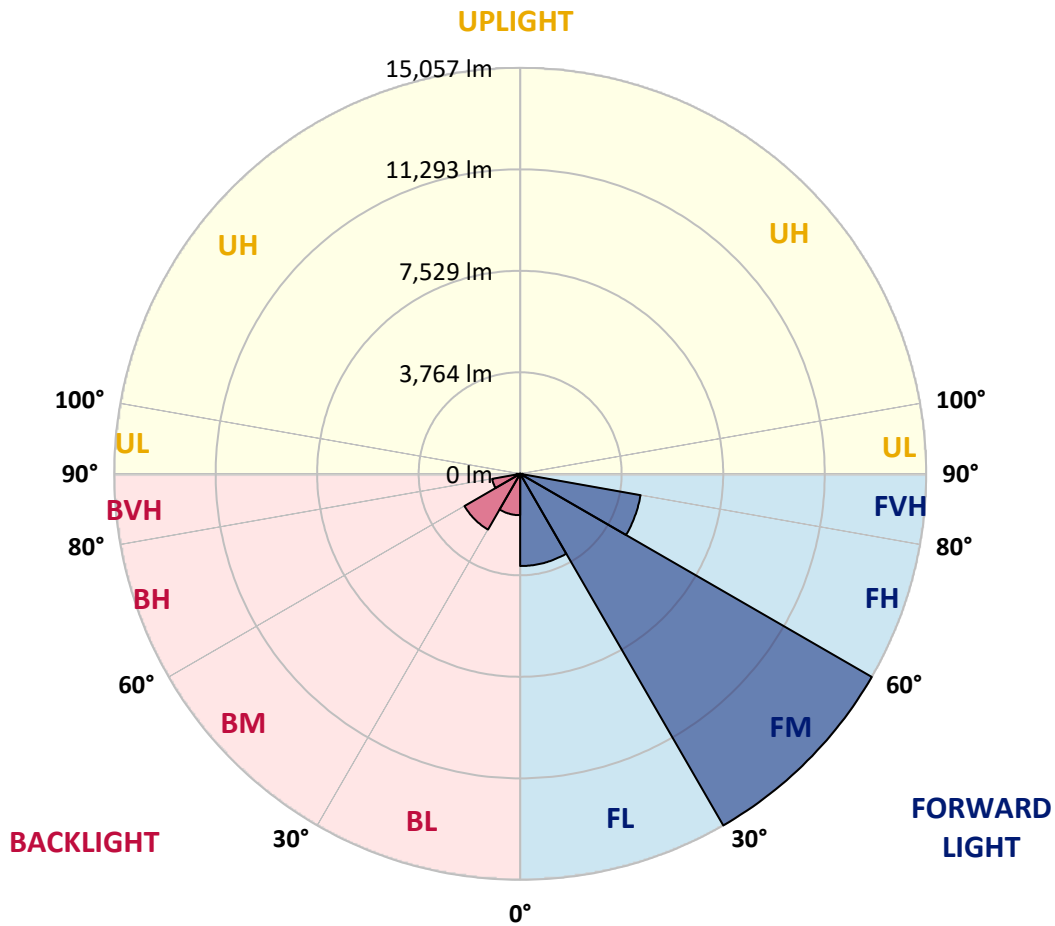
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3419.4  | 12.1      |                         |      |         |
| FM (30°-60°)   | 15057.5 | 53.4      |                         |      |         |
| FH (60°-80°)   | 4535.8  | 16.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 95.3    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1534.4  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2386.0  | 8.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 1054.3  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 130.3   | 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-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  | 7069.3  |
| 2.5°  | 8110.6  | 8104.8  | 8136.9  | 8027.5  | 7953.1  | 7852.5  | 7719.7  | 7550.6  | 7368.3  | 7175.7  |
| 5°    | 8841.3  | 8790.3  | 8823.8  | 8742.1  | 8660.5  | 8508.8  | 8311.9  | 8036.2  | 7699.3  | 7315.7  |
| 7.5°  | 8726.1  | 8691.1  | 8777.1  | 8850.1  | 8911.3  | 8892.4  | 8748.0  | 8459.2  | 8024.6  | 7467.4  |
| 10°   | 7797.0  | 7757.7  | 7878.7  | 8131.0  | 8501.5  | 8823.8  | 8998.8  | 8819.4  | 8357.1  | 7633.7  |
| 12.5° | 6977.4  | 6958.4  | 7038.6  | 7242.8  | 7654.1  | 8272.5  | 8966.7  | 9134.5  | 8702.8  | 7830.6  |
| 15°   | 6627.3  | 6604.0  | 6655.1  | 6758.6  | 7021.1  | 7597.2  | 8675.1  | 9350.3  | 9042.6  | 8058.1  |
| 17.5° | 6550.0  | 6523.8  | 6545.7  | 6599.6  | 6768.8  | 7207.8  | 8234.6  | 9456.8  | 9397.0  | 8311.9  |
| 20°   | 6693.0  | 6671.1  | 6674.0  | 6671.1  | 6789.2  | 7137.8  | 7928.3  | 9416.0  | 9706.2  | 8545.2  |
| 22.5° | 7038.6  | 7002.2  | 7003.6  | 6926.3  | 6990.5  | 7260.3  | 7848.1  | 9306.6  | 9981.9  | 8749.4  |
| 25°   | 7601.6  | 7536.0  | 7549.1  | 7352.2  | 7334.7  | 7534.5  | 7973.5  | 9222.0  | 10256.0 | 8912.8  |
| 27.5° | 8371.7  | 8297.3  | 8257.9  | 7964.8  | 7824.8  | 7923.9  | 8228.8  | 9251.2  | 10515.7 | 9054.3  |
| 30°   | 9334.3  | 9243.9  | 9163.6  | 8748.0  | 8494.2  | 8457.7  | 8625.5  | 9443.7  | 10821.9 | 9203.0  |
| 32.5° | 10514.2 | 10409.2 | 10263.3 | 9712.0  | 9354.7  | 9163.6  | 9138.8  | 9786.4  | 11180.7 | 9392.6  |
| 35°   | 11918.7 | 11781.6 | 11574.5 | 10861.3 | 10409.2 | 10018.3 | 9815.6  | 10280.8 | 11672.2 | 9678.5  |
| 37.5° | 13365.5 | 13210.9 | 13021.3 | 12172.5 | 11616.8 | 11040.7 | 10641.1 | 10951.7 | 12327.1 | 10066.4 |
| 40°   | 14700.0 | 14526.5 | 14350.0 | 13594.5 | 12998.0 | 12303.8 | 11651.8 | 11800.6 | 13127.8 | 10530.2 |
| 42.5° | 15487.6 | 15359.3 | 15292.2 | 14883.8 | 14422.9 | 13718.5 | 12909.0 | 12806.9 | 14027.7 | 11064.0 |
| 45°   | 15452.6 | 15400.1 | 15607.2 | 15776.4 | 15667.0 | 15276.1 | 14382.1 | 13919.8 | 14930.5 | 11526.4 |
| 47.5° | 14627.1 | 14662.1 | 15124.5 | 16075.4 | 16494.0 | 16698.2 | 16059.3 | 15012.2 | 15715.1 | 11872.0 |
| 50°   | 12381.1 | 12410.2 | 13480.7 | 15531.4 | 16706.9 | 17857.7 | 17723.5 | 16078.3 | 16323.3 | 12083.5 |
| 52.5° | 10603.2 | 10622.1 | 11081.5 | 13918.3 | 16003.9 | 18441.0 | 19222.8 | 17083.2 | 16768.2 | 12141.9 |
| 55°   | 7986.6  | 8052.3  | 8567.1  | 10919.7 | 14175.0 | 17978.7 | 20135.8 | 18118.7 | 17049.7 | 12147.7 |
| 57.5° | 4665.7  | 4737.1  | 5373.0  | 7412.0  | 11017.4 | 16367.1 | 20274.4 | 19037.6 | 17240.7 | 12101.0 |
| 60°   | 2285.4  | 2316.1  | 2593.2  | 3895.6  | 6793.6  | 13262.0 | 19160.1 | 19482.4 | 17347.2 | 12076.2 |
| 62.5° | 1540.2  | 1535.8  | 1547.4  | 1922.3  | 3347.2  | 8520.5  | 16838.2 | 18703.6 | 17290.3 | 11981.4 |
| 65°   | 1324.3  | 1308.3  | 1264.5  | 1349.1  | 1734.1  | 3897.1  | 13009.7 | 16378.8 | 16857.1 | 11743.7 |
| 67.5° | 1144.9  | 1146.4  | 1147.8  | 1121.6  | 1238.3  | 1798.3  | 7950.2  | 12901.7 | 15302.4 | 10617.7 |
| 70°   | 948.0   | 961.1   | 967.0   | 967.0   | 1009.3  | 1179.9  | 3393.9  | 8842.8  | 12070.4 | 8325.0  |
| 72.5° | 863.4   | 835.7   | 838.6   | 824.0   | 824.0   | 898.4   | 1366.6  | 5012.8  | 7604.5  | 4683.2  |
| 75°   | 704.4   | 721.9   | 724.9   | 714.7   | 681.1   | 685.5   | 810.9   | 2103.1  | 3253.9  | 1942.7  |
| 77.5° | 608.2   | 608.2   | 614.0   | 606.7   | 580.5   | 513.4   | 541.1   | 815.3   | 1107.0  | 796.3   |
| 80°   | 488.6   | 487.1   | 511.9   | 526.5   | 485.7   | 379.2   | 345.7   | 450.7   | 491.5   | 350.0   |
| 82.5° | 237.7   | 252.3   | 351.5   | 401.1   | 369.0   | 274.2   | 211.5   | 280.0   | 262.5   | 154.6   |
| 85°   | 138.6   | 131.3   | 157.5   | 223.1   | 211.5   | 151.7   | 102.1   | 145.8   | 137.1   | 78.8    |
| 87.5° | 43.8    | 40.8    | 32.1    | 75.8    | 61.3    | 42.3    | 27.7    | 42.3    | 37.9    | 17.5    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7069.3 | 0°    | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 | 7069.3 |
| 7092.6 | 2.5°  | 6989.0 | 6816.9 | 6646.3 | 6490.2 | 6395.4 | 6334.2 | 6272.9 | 6204.4 | 6178.1 | 6138.8 |
| 7111.6 | 5°    | 6919.0 | 6586.5 | 6290.4 | 6035.2 | 5803.3 | 5621.0 | 5437.2 | 5288.5 | 5221.4 | 5266.6 |
| 7171.4 | 7.5°  | 6878.2 | 6396.9 | 5940.4 | 5472.2 | 5021.6 | 4661.3 | 4347.7 | 4127.5 | 4028.3 | 4053.1 |
| 7229.7 | 10°   | 6841.7 | 6182.5 | 5486.8 | 4747.4 | 4099.8 | 3653.5 | 3332.6 | 3164.9 | 3102.2 | 3115.3 |
| 7308.5 | 12.5° | 6808.2 | 5941.9 | 4939.9 | 3967.1 | 3278.7 | 2984.1 | 2892.2 | 2893.6 | 2905.3 | 2914.0 |
| 7433.9 | 15°   | 6802.4 | 5651.6 | 4328.8 | 3284.5 | 2835.3 | 2816.3 | 2915.5 | 2978.2 | 3011.8 | 3022.0 |
| 7538.9 | 17.5° | 6793.6 | 5304.5 | 3706.0 | 2819.2 | 2727.4 | 2855.7 | 2947.6 | 2988.4 | 3014.7 | 3016.1 |
| 7641.0 | 20°   | 6758.6 | 4864.0 | 3131.4 | 2597.6 | 2704.0 | 2814.9 | 2871.8 | 2903.8 | 2925.7 | 2933.0 |
| 7718.3 | 22.5° | 6650.7 | 4374.0 | 2683.6 | 2498.4 | 2610.7 | 2699.7 | 2766.7 | 2803.2 | 2816.3 | 2825.1 |
| 7732.9 | 25°   | 6456.7 | 3825.6 | 2374.4 | 2403.6 | 2480.9 | 2593.2 | 2647.1 | 2654.4 | 2650.1 | 2663.2 |
| 7696.4 | 27.5° | 6202.9 | 3237.8 | 2181.9 | 2275.2 | 2374.4 | 2470.7 | 2499.8 | 2495.5 | 2486.7 | 2501.3 |
| 7633.7 | 30°   | 5896.6 | 2709.9 | 2059.4 | 2130.8 | 2266.5 | 2354.0 | 2380.2 | 2370.0 | 2352.5 | 2368.6 |
| 7601.6 | 32.5° | 5572.9 | 2278.1 | 1958.7 | 2030.2 | 2177.5 | 2263.6 | 2289.8 | 2279.6 | 2266.5 | 2279.6 |
| 7638.1 | 35°   | 5271.0 | 1976.2 | 1865.4 | 1963.1 | 2107.5 | 2192.1 | 2225.6 | 2227.1 | 2227.1 | 2243.1 |
| 7734.3 | 37.5° | 4993.8 | 1799.8 | 1788.1 | 1920.8 | 2059.4 | 2135.2 | 2183.3 | 2186.3 | 2123.5 | 2127.9 |
| 7897.7 | 40°   | 4737.1 | 1725.4 | 1753.1 | 1893.1 | 2012.7 | 2085.6 | 2088.5 | 1925.2 | 1810.0 | 1807.1 |
| 8084.4 | 42.5° | 4527.1 | 1710.8 | 1763.3 | 1890.2 | 1979.2 | 1982.1 | 1776.4 | 1649.5 | 1617.5 | 1618.9 |
| 8256.5 | 45°   | 4330.2 | 1706.4 | 1786.6 | 1890.2 | 1929.6 | 1712.3 | 1573.7 | 1540.2 | 1543.1 | 1554.7 |
| 8333.8 | 47.5° | 4110.0 | 1688.9 | 1791.0 | 1863.9 | 1786.6 | 1522.7 | 1481.8 | 1467.2 | 1461.4 | 1464.3 |
| 8316.3 | 50°   | 3869.4 | 1626.2 | 1735.6 | 1811.4 | 1541.6 | 1441.0 | 1389.9 | 1385.6 | 1392.9 | 1397.2 |
| 8218.5 | 52.5° | 3615.6 | 1524.1 | 1640.8 | 1716.6 | 1429.3 | 1369.5 | 1312.6 | 1322.8 | 1354.9 | 1365.1 |
| 8116.5 | 55°   | 3449.3 | 1404.5 | 1515.4 | 1527.0 | 1350.6 | 1302.4 | 1254.3 | 1277.6 | 1337.4 | 1356.4 |
| 8055.2 | 57.5° | 3405.6 | 1277.6 | 1372.4 | 1359.3 | 1249.9 | 1244.1 | 1214.9 | 1235.3 | 1311.2 | 1338.9 |
| 8052.3 | 60°   | 3392.4 | 1163.9 | 1232.4 | 1222.2 | 1152.2 | 1179.9 | 1172.6 | 1182.8 | 1209.1 | 1217.8 |
| 8023.1 | 62.5° | 3290.3 | 1073.4 | 1107.0 | 1092.4 | 1064.7 | 1112.8 | 1130.3 | 1108.4 | 1128.9 | 1139.1 |
| 7823.3 | 65°   | 3030.7 | 1000.5 | 984.5  | 974.3  | 985.9  | 1029.7 | 1064.7 | 1020.9 | 1039.9 | 1069.1 |
| 7053.2 | 67.5° | 2601.9 | 901.3  | 857.6  | 869.3  | 905.7  | 929.1  | 974.3  | 924.7  | 940.7  | 990.3  |
| 5680.8 | 70°   | 2104.6 | 775.9  | 736.5  | 770.1  | 805.1  | 853.2  | 860.5  | 827.0  | 864.9  | 920.3  |
| 3466.8 | 72.5° | 1489.1 | 649.0  | 621.3  | 689.9  | 701.5  | 764.2  | 748.2  | 732.2  | 784.7  | 803.6  |
| 1713.7 | 75°   | 1032.6 | 523.6  | 507.6  | 560.1  | 602.4  | 656.3  | 644.6  | 663.6  | 774.5  | 783.2  |
| 856.1  | 77.5° | 653.4  | 406.9  | 396.7  | 430.3  | 488.6  | 548.4  | 567.3  | 783.2  | 1322.8 | 1375.3 |
| 444.8  | 80°   | 379.2  | 303.4  | 291.7  | 317.9  | 369.0  | 424.4  | 546.9  | 961.1  | 872.2  | 862.0  |
| 199.8  | 82.5° | 211.5  | 208.6  | 194.0  | 201.3  | 246.5  | 306.3  | 773.0  | 676.7  | 549.8  | 567.3  |
| 80.2   | 85°   | 99.2   | 122.5  | 105.0  | 100.6  | 138.6  | 358.8  | 516.3  | 386.5  | 256.7  | 250.9  |
| 17.5   | 87.5° | 26.3   | 23.3   | 23.3   | 26.3   | 58.3   | 309.2  | 205.6  | 164.8  | 97.7   | 94.8   |
| 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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