

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: P957462

Luminaire Tested: **GALN-SB9D-760-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

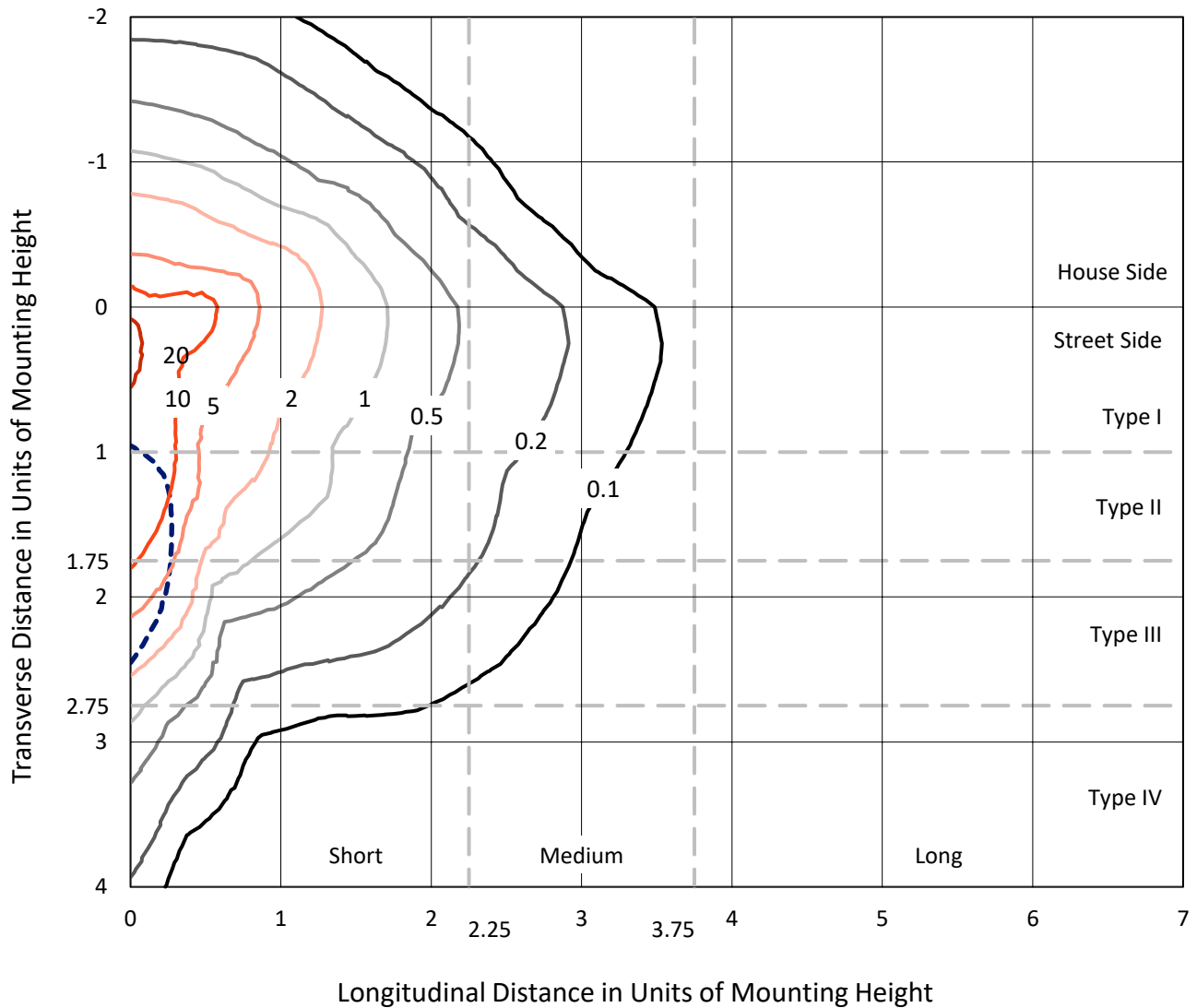
Lumens per Lamp: N/A  
Luminaire Lumens: 74839 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

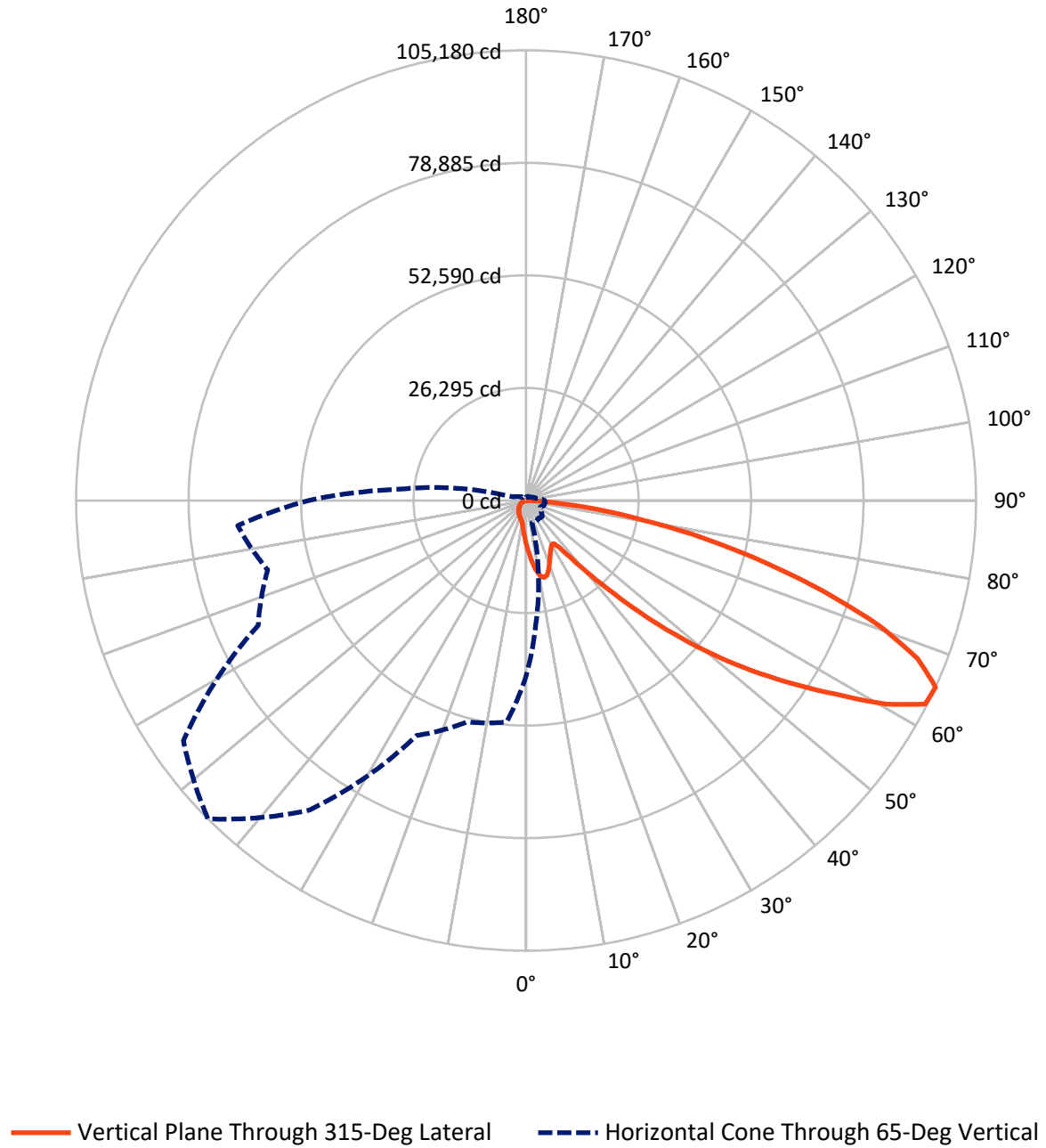
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc  
 Type IV - 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    | 10480.7  | 0.0    | 10480.7 |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 64358.4  | 0.0    | 64358.4 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 74839.0  | 0.0    | 74839.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1020.3  | 1.4       |
| 10°-20°   | 3058.4  | 4.1       |
| 20°-30°   | 4505.7  | 6.0       |
| 30°-40°   | 5788.6  | 7.7       |
| 40°-50°   | 9361.8  | 12.5      |
| 50°-60°   | 16416.9 | 21.9      |
| 60°-70°   | 20542.0 | 27.4      |
| 70°-80°   | 12003.8 | 16.0      |
| 80°-90°   | 2141.7  | 2.9       |
| 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°    | 74839.0 | 100.0     |
| 0°-180°   | 74839.0 | 100.0     |

**Coefficient of Utilization**



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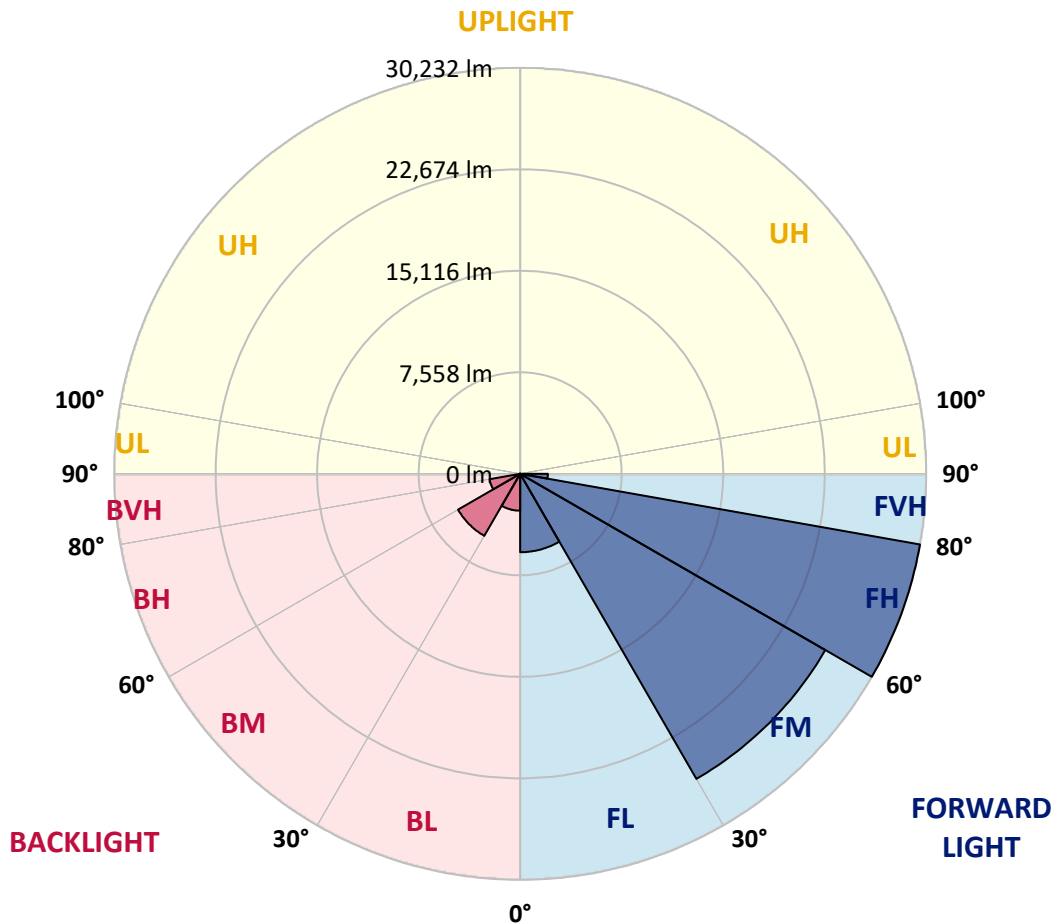
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5837.2  | 7.8       |                         |      |         |
| FM (30°-60°)   | 26230.2 | 35.0      |                         |      |         |
| FH (60°-80°)   | 30231.6 | 40.4      |                         |      | G5      |
| FVH (80°-90°)  | 2059.4  | 2.8       |                         |      | G5      |
| BL (0°-30°)    | 2747.2  | 3.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 5337.0  | 7.1       | B4/8500                 |      |         |
| BH (60°-80°)   | 2314.2  | 3.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 82.3    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 |
| 2.5°  | 11708.4 | 11507.4 | 11388.8 | 11094.9 | 10801.0 | 10563.9 | 10244.2 | 10032.8 | 9780.2  | 9537.9  |
| 5°    | 13048.9 | 12724.1 | 12332.3 | 11796.1 | 11306.3 | 10806.2 | 10321.6 | 9842.1  | 9336.8  | 8872.8  |
| 7.5°  | 14183.1 | 13714.0 | 13023.1 | 12311.6 | 11687.8 | 11084.6 | 10517.5 | 9883.3  | 9269.8  | 8542.9  |
| 10°   | 15049.3 | 14451.2 | 13543.8 | 12610.7 | 11894.0 | 11285.7 | 10734.0 | 10197.8 | 9579.2  | 8702.7  |
| 12.5° | 15575.1 | 14935.8 | 13858.3 | 12765.3 | 11945.6 | 11265.0 | 10837.1 | 10600.0 | 10357.7 | 9486.4  |
| 15°   | 15961.8 | 15271.0 | 14080.0 | 12873.6 | 11827.0 | 10991.8 | 10677.3 | 10914.5 | 11192.9 | 10636.1 |
| 17.5° | 16364.0 | 15637.0 | 14368.7 | 12920.0 | 11507.4 | 10460.8 | 10326.7 | 10940.2 | 11584.7 | 11558.9 |
| 20°   | 16745.5 | 16023.7 | 14621.4 | 12889.1 | 10991.8 | 9816.3  | 9934.9  | 10718.5 | 11466.1 | 11780.6 |
| 22.5° | 17183.7 | 16420.7 | 14863.7 | 12770.5 | 10321.6 | 9213.1  | 9584.3  | 10368.0 | 11022.7 | 11393.9 |
| 25°   | 17719.9 | 16920.8 | 15203.9 | 12595.2 | 9599.8  | 8713.0  | 9228.6  | 9960.7  | 10491.7 | 10749.5 |
| 27.5° | 18297.3 | 17518.8 | 15657.6 | 12502.4 | 9017.2  | 8357.3  | 8826.4  | 9476.0  | 9950.4  | 10130.8 |
| 30°   | 19013.9 | 18214.8 | 16193.8 | 12399.3 | 8635.7  | 8151.0  | 8408.8  | 8914.1  | 9378.1  | 9558.5  |
| 32.5° | 19797.6 | 18988.2 | 16709.4 | 12151.8 | 8403.7  | 7996.4  | 8001.5  | 8321.2  | 8743.9  | 8960.5  |
| 35°   | 20777.2 | 19916.2 | 17261.0 | 11610.5 | 8218.1  | 7815.9  | 7604.5  | 7759.2  | 8109.8  | 8367.6  |
| 37.5° | 22174.3 | 21132.9 | 17936.4 | 10837.1 | 7944.8  | 7537.5  | 7186.9  | 7223.0  | 7491.1  | 7774.7  |
| 40°   | 24102.5 | 22767.2 | 18730.4 | 10032.8 | 7553.0  | 7145.7  | 6728.1  | 6712.6  | 6908.5  | 7186.9  |
| 42.5° | 26711.3 | 24927.4 | 19684.2 | 9264.7  | 7176.6  | 6671.4  | 6243.5  | 6217.7  | 6372.4  | 6614.7  |
| 45°   | 30155.3 | 27690.9 | 20854.5 | 8604.7  | 6882.8  | 6207.4  | 5784.6  | 5774.3  | 5903.2  | 6114.6  |
| 47.5° | 34563.3 | 31531.8 | 22024.8 | 8156.2  | 6728.1  | 5841.3  | 5408.3  | 5428.9  | 5542.3  | 5733.1  |
| 50°   | 40270.6 | 36537.9 | 22380.6 | 7929.4  | 6728.1  | 5645.4  | 5073.1  | 5176.2  | 5269.0  | 5413.4  |
| 52.5° | 47112.1 | 41343.0 | 21205.1 | 7723.1  | 6769.3  | 5671.2  | 4789.6  | 5011.3  | 5078.3  | 5202.0  |
| 55°   | 53453.5 | 43699.1 | 18230.3 | 7439.6  | 6779.6  | 5831.0  | 4547.3  | 4877.2  | 5001.0  | 5047.4  |
| 57.5° | 57134.6 | 42889.6 | 14739.9 | 6960.1  | 6738.4  | 5939.3  | 4392.6  | 4712.2  | 4949.4  | 4980.3  |
| 60°   | 56433.5 | 40048.9 | 10852.6 | 6594.0  | 6434.2  | 5898.0  | 4346.2  | 4459.6  | 4836.0  | 4882.4  |
| 62.5° | 51030.4 | 35285.1 | 7532.4  | 6310.5  | 5764.0  | 5717.6  | 4330.7  | 4062.6  | 4588.5  | 4701.9  |
| 65°   | 41018.2 | 27778.5 | 5320.6  | 5434.0  | 5052.5  | 5325.8  | 4248.2  | 3650.2  | 4289.5  | 4444.1  |
| 67.5° | 29758.3 | 18797.4 | 3840.9  | 4402.9  | 4578.2  | 4691.6  | 4062.6  | 3351.2  | 3949.2  | 4155.4  |
| 70°   | 19096.4 | 10151.4 | 2696.4  | 2907.8  | 3856.4  | 3985.3  | 3743.0  | 3083.1  | 3603.8  | 3840.9  |
| 72.5° | 13574.8 | 5996.0  | 1938.5  | 2036.5  | 3098.5  | 3320.2  | 3294.4  | 2784.0  | 3201.6  | 3490.4  |
| 75°   | 9367.8  | 3304.8  | 1309.5  | 1453.9  | 2247.9  | 2696.4  | 2541.7  | 2392.2  | 2711.9  | 3005.7  |
| 77.5° | 5872.3  | 1479.7  | 783.7   | 1010.5  | 1474.5  | 2119.0  | 1742.6  | 1850.9  | 2113.8  | 2387.1  |
| 80°   | 3268.7  | 572.3   | 438.2   | 670.2   | 804.3   | 1541.5  | 964.1   | 1190.9  | 1557.0  | 1752.9  |
| 82.5° | 711.5   | 72.2    | 195.9   | 288.7   | 314.5   | 897.1   | 510.4   | 690.9   | 979.6   | 964.1   |
| 85°   | 0.0     | 0.0     | 36.1    | 41.2    | 20.6    | 386.7   | 185.6   | 226.8   | 319.6   | 299.0   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 10.3    |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10362.8 | 0°    | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 |
| 9321.4  | 2.5°  | 9280.1  | 9027.5  | 8841.9  | 8749.1  | 8671.8  | 8743.9  | 8785.2  | 8785.2  | 8960.5  | 9063.6  |
| 8589.3  | 5°    | 8408.8  | 7955.1  | 7609.7  | 7377.7  | 7238.5  | 7284.9  | 7336.5  | 7393.2  | 7614.9  | 7764.4  |
| 8156.2  | 7.5°  | 7805.6  | 7109.6  | 6583.7  | 6258.9  | 6088.8  | 6114.6  | 6150.7  | 6197.1  | 6413.6  | 6563.1  |
| 8218.1  | 10°   | 7692.2  | 6692.0  | 5949.6  | 5521.7  | 5315.4  | 5279.4  | 5258.7  | 5243.3  | 5372.2  | 5485.6  |
| 8919.2  | 12.5° | 8156.2  | 6712.6  | 5676.3  | 5155.6  | 4903.0  | 4794.7  | 4671.0  | 4573.0  | 4593.7  | 4665.8  |
| 9981.3  | 15°   | 8986.3  | 6975.6  | 5588.7  | 4964.9  | 4650.4  | 4469.9  | 4325.6  | 4207.0  | 4181.2  | 4207.0  |
| 10909.3 | 17.5° | 9934.9  | 7331.3  | 5578.4  | 4799.9  | 4408.1  | 4222.5  | 4103.9  | 3995.6  | 3959.5  | 3964.7  |
| 11430.0 | 20°   | 10563.9 | 7614.9  | 5547.5  | 4614.3  | 4176.1  | 4011.1  | 3908.0  | 3799.7  | 3763.6  | 3773.9  |
| 11285.7 | 22.5° | 10625.7 | 7764.4  | 5501.1  | 4408.1  | 3944.1  | 3804.9  | 3701.7  | 3603.8  | 3598.6  | 3598.6  |
| 10744.3 | 25°   | 10290.6 | 7764.4  | 5403.1  | 4222.5  | 3722.4  | 3598.6  | 3505.8  | 3387.2  | 3407.9  | 3418.2  |
| 10130.8 | 27.5° | 9769.9  | 7578.8  | 5217.5  | 4072.9  | 3531.6  | 3402.7  | 3309.9  | 3201.6  | 3227.4  | 3242.9  |
| 9558.5  | 30°   | 9254.3  | 7341.6  | 4995.8  | 3902.8  | 3351.2  | 3201.6  | 3134.6  | 3041.8  | 3052.1  | 3072.8  |
| 8991.4  | 32.5° | 8774.9  | 7089.0  | 4732.9  | 3763.6  | 3170.7  | 3021.2  | 2969.6  | 2866.5  | 2882.0  | 2902.6  |
| 8434.6  | 35°   | 8300.6  | 6810.6  | 4423.5  | 3598.6  | 3005.7  | 2856.2  | 2815.0  | 2696.4  | 2706.7  | 2737.6  |
| 7877.8  | 37.5° | 7790.1  | 6516.7  | 4170.9  | 3433.6  | 2845.9  | 2691.2  | 2650.0  | 2526.3  | 2536.6  | 2572.7  |
| 7300.4  | 40°   | 7254.0  | 6228.0  | 3923.4  | 3258.4  | 2675.8  | 2521.1  | 2485.0  | 2351.0  | 2361.3  | 2402.5  |
| 6733.2  | 42.5° | 6712.6  | 5913.5  | 3732.7  | 3031.5  | 2500.5  | 2335.5  | 2299.4  | 2175.7  | 2191.1  | 2237.5  |
| 6238.3  | 45°   | 6212.5  | 5537.1  | 3608.9  | 2778.9  | 2335.5  | 2149.9  | 2113.8  | 2000.4  | 2031.3  | 2082.9  |
| 5820.7  | 47.5° | 5784.6  | 5150.5  | 3557.4  | 2567.5  | 2160.2  | 1959.1  | 1928.2  | 1835.4  | 1887.0  | 1943.7  |
| 5465.0  | 50°   | 5418.6  | 4779.3  | 3490.4  | 2351.0  | 1995.2  | 1794.2  | 1763.2  | 1701.4  | 1768.4  | 1825.1  |
| 5222.6  | 52.5° | 5155.6  | 4356.5  | 3346.0  | 2155.1  | 1850.9  | 1655.0  | 1644.6  | 1613.7  | 1675.6  | 1727.1  |
| 5042.2  | 55°   | 4928.8  | 3918.3  | 3114.0  | 1984.9  | 1722.0  | 1536.4  | 1546.7  | 1531.2  | 1582.8  | 1624.0  |
| 4933.9  | 57.5° | 4722.6  | 3536.8  | 2820.1  | 1850.9  | 1582.8  | 1433.3  | 1464.2  | 1443.6  | 1469.4  | 1495.1  |
| 4820.5  | 60°   | 4475.1  | 3150.1  | 2469.5  | 1701.4  | 1417.8  | 1330.2  | 1366.2  | 1309.5  | 1304.4  | 1314.7  |
| 4614.3  | 62.5° | 4109.0  | 2629.4  | 2103.5  | 1515.8  | 1273.4  | 1216.7  | 1232.2  | 1123.9  | 1041.4  | 1041.4  |
| 4310.1  | 65°   | 3598.6  | 2113.8  | 1763.2  | 1309.5  | 1108.5  | 1062.1  | 1051.7  | 897.1   | 783.7   | 773.3   |
| 3980.1  | 67.5° | 3005.7  | 1737.4  | 1464.2  | 1103.3  | 922.9   | 891.9   | 902.2   | 788.8   | 675.4   | 665.1   |
| 3650.2  | 70°   | 2448.9  | 1438.4  | 1180.6  | 881.6   | 711.5   | 742.4   | 788.8   | 675.4   | 567.1   | 551.7   |
| 3263.5  | 72.5° | 1990.1  | 1144.5  | 922.9   | 675.4   | 525.9   | 613.5   | 670.2   | 551.7   | 448.5   | 438.2   |
| 2784.0  | 75°   | 1536.4  | 840.4   | 659.9   | 458.9   | 381.5   | 474.3   | 525.9   | 402.1   | 319.6   | 304.2   |
| 2155.1  | 77.5° | 1026.0  | 520.7   | 371.2   | 288.7   | 226.8   | 324.8   | 350.6   | 211.4   | 185.6   | 180.4   |
| 1567.3  | 80°   | 623.8   | 242.3   | 159.8   | 139.2   | 77.3    | 118.6   | 139.2   | 87.6    | 98.0    | 103.1   |
| 835.2   | 82.5° | 314.5   | 67.0    | 25.8    | 5.2     | 0.0     | 0.0     | 41.2    | 20.6    | 41.2    | 51.6    |
| 226.8   | 85°   | 25.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 10.3    | 25.8    |
| 0.0     | 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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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**CANDELA DISTRIBUTION (continued):**

| 185°    |       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10362.8 | 0°    | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 |
| 9104.8  | 2.5°  | 9393.5  | 9610.1  | 9816.3  | 10146.3 | 10486.5 | 10821.7 | 11161.9 | 11491.9 | 11610.5 | 11698.1 |
| 7862.3  | 5°    | 8310.9  | 8718.2  | 9192.5  | 9847.2  | 10548.4 | 11270.2 | 12002.3 | 12672.5 | 12976.7 | 13182.9 |
| 6692.0  | 7.5°  | 7192.1  | 7723.1  | 8403.7  | 9388.4  | 10486.5 | 11636.2 | 12786.0 | 13842.9 | 14332.6 | 14729.6 |
| 5588.7  | 10°   | 6083.6  | 6661.1  | 7522.1  | 8646.0  | 10130.8 | 11780.6 | 13368.5 | 14822.4 | 15456.6 | 15956.7 |
| 4794.7  | 12.5° | 5109.2  | 5650.6  | 6552.8  | 7795.3  | 9574.0  | 11667.2 | 13703.7 | 15451.4 | 16199.0 | 16760.9 |
| 4227.6  | 15°   | 4423.5  | 4805.0  | 5604.2  | 6944.6  | 8914.1  | 11301.1 | 13724.3 | 15750.4 | 16570.2 | 17157.9 |
| 3990.5  | 17.5° | 4042.0  | 4170.9  | 4691.6  | 6078.5  | 8182.0  | 10821.7 | 13533.5 | 15853.5 | 16730.0 | 17276.5 |
| 3779.1  | 20°   | 3835.8  | 3856.4  | 4000.8  | 4954.6  | 7243.7  | 10373.1 | 13353.1 | 15956.7 | 16879.5 | 17338.4 |
| 3629.6  | 22.5° | 3670.8  | 3670.8  | 3706.9  | 4052.3  | 6032.1  | 9836.9  | 13296.4 | 16137.1 | 17085.7 | 17369.3 |
| 3459.4  | 25°   | 3521.3  | 3521.3  | 3531.6  | 3624.4  | 4779.3  | 9017.2  | 13260.3 | 16415.5 | 17369.3 | 17446.6 |
| 3289.3  | 27.5° | 3366.6  | 3371.8  | 3371.8  | 3423.3  | 3851.3  | 7903.6  | 13105.6 | 16776.4 | 17709.6 | 17549.7 |
| 3124.3  | 30°   | 3212.0  | 3222.3  | 3222.3  | 3258.4  | 3407.9  | 6599.2  | 12801.4 | 17209.5 | 18153.0 | 17683.8 |
| 2959.3  | 32.5° | 3057.3  | 3067.6  | 3067.6  | 3098.5  | 3206.8  | 5269.0  | 12419.9 | 17606.5 | 18601.5 | 17740.5 |
| 2799.5  | 35°   | 2897.5  | 2912.9  | 2902.6  | 2943.9  | 3057.3  | 4191.5  | 11935.3 | 18003.4 | 19086.1 | 17921.0 |
| 2644.8  | 37.5° | 2737.6  | 2747.9  | 2742.8  | 2784.0  | 2912.9  | 3619.2  | 11373.3 | 18302.5 | 19746.0 | 18323.1 |
| 2479.9  | 40°   | 2577.8  | 2572.7  | 2572.7  | 2619.1  | 2758.3  | 3454.3  | 10667.0 | 18776.8 | 20694.7 | 19029.4 |
| 2314.9  | 42.5° | 2412.8  | 2412.8  | 2402.5  | 2454.1  | 2624.2  | 3330.5  | 9991.6  | 19627.5 | 22076.4 | 20153.3 |
| 2160.2  | 45°   | 2263.3  | 2258.2  | 2237.5  | 2283.9  | 2495.3  | 3114.0  | 9754.4  | 21215.4 | 24118.0 | 21973.3 |
| 2005.5  | 47.5° | 2119.0  | 2113.8  | 2062.3  | 2103.5  | 2340.7  | 2918.1  | 10641.2 | 23813.8 | 26948.5 | 24649.0 |
| 1881.8  | 50°   | 1990.1  | 1995.2  | 1897.3  | 1933.4  | 2186.0  | 2768.6  | 12564.3 | 27185.6 | 30706.9 | 28252.8 |
| 1778.7  | 52.5° | 1871.5  | 1871.5  | 1742.6  | 1763.2  | 1995.2  | 2634.5  | 14394.5 | 30841.0 | 35666.6 | 33279.6 |
| 1670.4  | 55°   | 1752.9  | 1742.6  | 1598.2  | 1608.6  | 1804.5  | 2443.8  | 14667.8 | 34408.6 | 42430.8 | 40842.9 |
| 1551.8  | 57.5° | 1618.9  | 1598.2  | 1464.2  | 1464.2  | 1629.2  | 2304.6  | 12713.8 | 37151.4 | 50824.2 | 51958.4 |
| 1330.2  | 60°   | 1453.9  | 1438.4  | 1350.8  | 1325.0  | 1490.0  | 2428.3  | 8970.8  | 37471.1 | 56237.6 | 66739.6 |
| 1056.9  | 62.5° | 1242.5  | 1263.1  | 1216.7  | 1180.6  | 1355.9  | 2521.1  | 5315.4  | 34898.4 | 54928.0 | 71441.5 |
| 819.7   | 65°   | 979.6   | 1062.1  | 1051.7  | 1026.0  | 1490.0  | 2124.1  | 3139.8  | 29959.3 | 50911.8 | 67647.0 |
| 716.6   | 67.5° | 835.2   | 891.9   | 876.5   | 876.5   | 1562.2  | 1613.7  | 1974.6  | 23406.5 | 45385.0 | 63146.1 |
| 598.1   | 70°   | 711.5   | 768.2   | 711.5   | 711.5   | 1180.6  | 979.6   | 1366.2  | 16343.3 | 39419.9 | 58165.8 |
| 479.5   | 72.5° | 587.7   | 644.5   | 582.6   | 541.3   | 943.5   | 732.1   | 1000.2  | 10213.3 | 33759.0 | 52979.2 |
| 340.3   | 75°   | 448.5   | 515.6   | 469.2   | 417.6   | 623.8   | 546.5   | 757.9   | 5934.1  | 27969.3 | 45328.3 |
| 206.2   | 77.5° | 283.6   | 371.2   | 350.6   | 293.9   | 458.9   | 397.0   | 546.5   | 3531.6  | 21581.4 | 35419.1 |
| 123.7   | 80°   | 175.3   | 190.8   | 195.9   | 185.6   | 262.9   | 268.1   | 371.2   | 2010.7  | 14770.9 | 24685.1 |
| 77.3    | 82.5° | 113.4   | 113.4   | 87.6    | 98.0    | 128.9   | 154.7   | 211.4   | 757.9   | 8682.1  | 15028.6 |
| 46.4    | 85°   | 82.5    | 72.2    | 46.4    | 46.4    | 61.9    | 77.3    | 82.5    | 232.0   | 3521.3  | 5934.1  |
| 20.6    | 87.5° | 41.2    | 36.1    | 15.5    | 20.6    | 30.9    | 25.8    | 20.6    | 10.3    | 886.8   | 1897.3  |
| 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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| 10362.8 | 0°    | 10362.8 | 10362.8 | 10362.8  | 10362.8 | 10362.8 | 10362.8 | 10362.8 | 10362.8 |
| 11894.0 | 2.5°  | 11997.1 | 12157.0 | 12167.3  | 12167.3 | 12028.1 | 12022.9 | 11739.4 | 11708.4 |
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| 15435.9 | 7.5°  | 16075.2 | 16281.5 | 16281.5  | 16157.7 | 15704.0 | 15281.3 | 14482.2 | 14183.1 |
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| 17529.1 | 20°   | 16683.6 | 15693.7 | 15595.8  | 16286.6 | 17255.9 | 17750.8 | 17163.1 | 16745.5 |
| 16977.5 | 22.5° | 15590.6 | 14523.4 | 14296.5  | 15059.6 | 16518.6 | 17786.9 | 17601.3 | 17183.7 |
| 16369.1 | 25°   | 14554.3 | 13482.0 | 13255.1  | 13966.6 | 15698.9 | 17725.0 | 18075.6 | 17719.9 |
| 15786.5 | 27.5° | 13688.2 | 12651.9 | 12440.5  | 13152.0 | 14910.1 | 17549.7 | 18549.9 | 18297.3 |
| 15209.1 | 30°   | 13018.0 | 12059.0 | 11904.3  | 12590.0 | 14229.5 | 17333.2 | 19153.1 | 19013.9 |
| 14672.9 | 32.5° | 12626.1 | 11925.0 | 11981.7  | 12543.6 | 13863.5 | 17096.1 | 19730.6 | 19797.6 |
| 14410.0 | 35°   | 13012.8 | 13043.7 | 13538.7  | 13770.7 | 14203.7 | 17060.0 | 20514.2 | 20777.2 |
| 14724.5 | 37.5° | 14935.8 | 16008.2 | 17034.2  | 16843.4 | 15869.0 | 17477.6 | 21684.6 | 22174.3 |
| 16095.9 | 40°   | 18209.7 | 20411.1 | 22076.4  | 21349.4 | 18895.4 | 18756.2 | 23370.4 | 24102.5 |
| 18529.3 | 42.5° | 22210.4 | 25943.1 | 28685.9  | 26737.1 | 22798.2 | 20993.7 | 25778.1 | 26711.3 |
| 21473.2 | 45°   | 26432.9 | 32764.0 | 37084.4  | 33032.1 | 26958.8 | 24128.3 | 29423.2 | 30155.3 |
| 24231.4 | 47.5° | 30882.2 | 41054.2 | 46642.9  | 40012.8 | 30815.2 | 27696.0 | 34393.2 | 34563.3 |
| 26845.3 | 50°   | 35749.1 | 50143.6 | 56387.1  | 46988.4 | 34537.5 | 31784.4 | 40466.5 | 40270.6 |
| 29892.3 | 52.5° | 40384.0 | 59490.8 | 65925.0  | 53994.9 | 37806.2 | 36857.6 | 47514.2 | 47112.1 |
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| 40064.4 | 57.5° | 49937.4 | 77231.3 | 85408.1  | 67492.3 | 45199.4 | 52262.6 | 65249.6 | 57134.6 |
| 51566.6 | 60°   | 57521.3 | 86774.3 | 96590.6  | 76762.1 | 53396.8 | 61408.7 | 68605.9 | 56433.5 |
| 65342.4 | 62.5° | 67203.6 | 95549.2 | 104721.1 | 85846.3 | 61630.3 | 63130.6 | 63661.7 | 51030.4 |
| 62532.6 | 65°   | 69085.4 | 97771.3 | 105179.9 | 88274.6 | 60568.3 | 53551.5 | 51973.9 | 41018.2 |
| 55856.0 | 67.5° | 64094.7 | 93755.0 | 98766.3  | 83753.1 | 53577.3 | 41384.2 | 39002.3 | 29758.3 |
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| 29701.6 | 80°   | 25953.4 | 28531.2 | 27835.2  | 32042.2 | 17286.8 | 9218.3  | 5521.7  | 3268.7  |
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| 0.0     | 90°   | 0.0     | 0.0     | 0.0      | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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