

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: P955740

Luminaire Tested: **GALN-SB8C-835-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955740  
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-SB8C-835-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

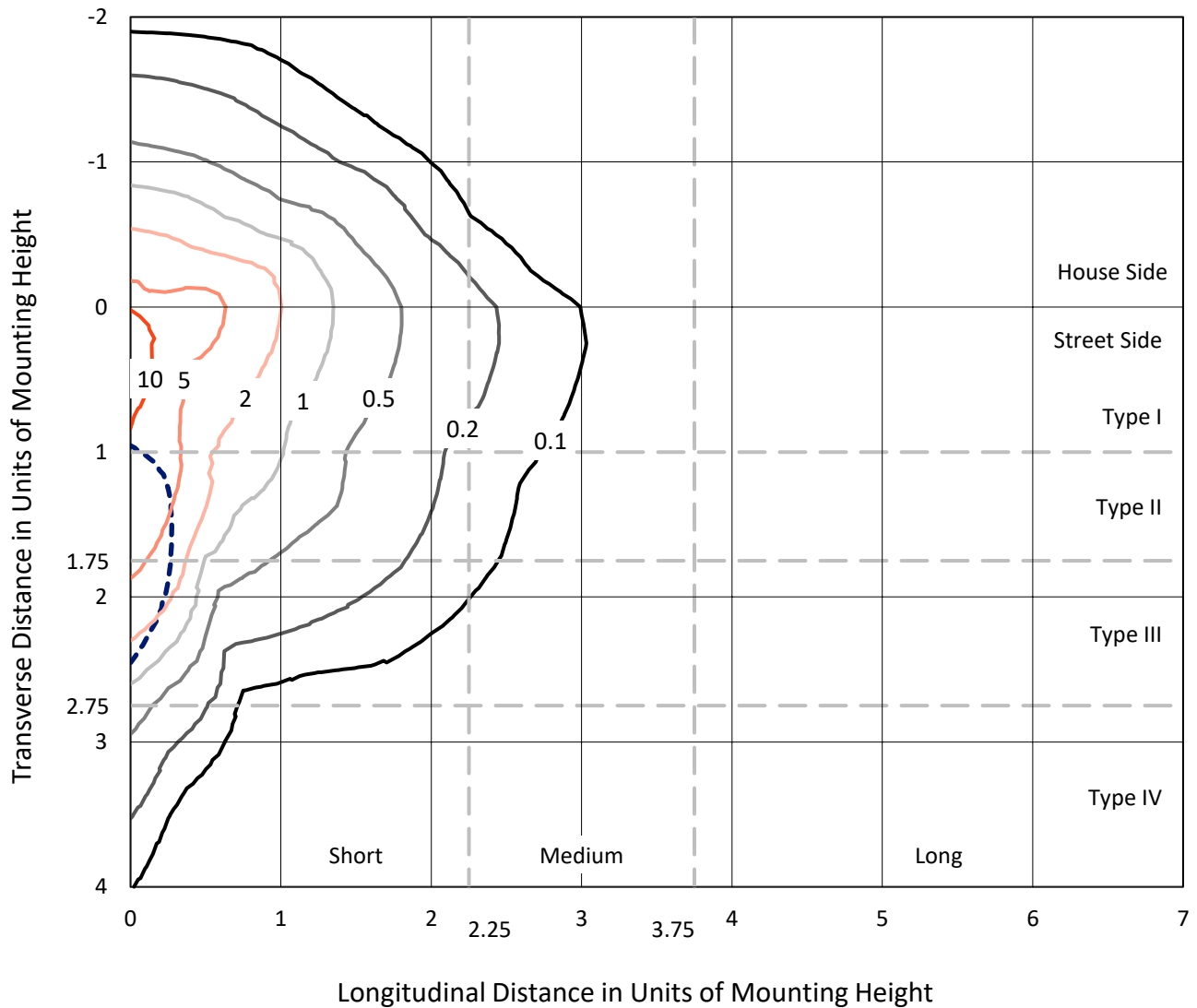
Lumens per Lamp: N/A  
Luminaire Lumens: 42868 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

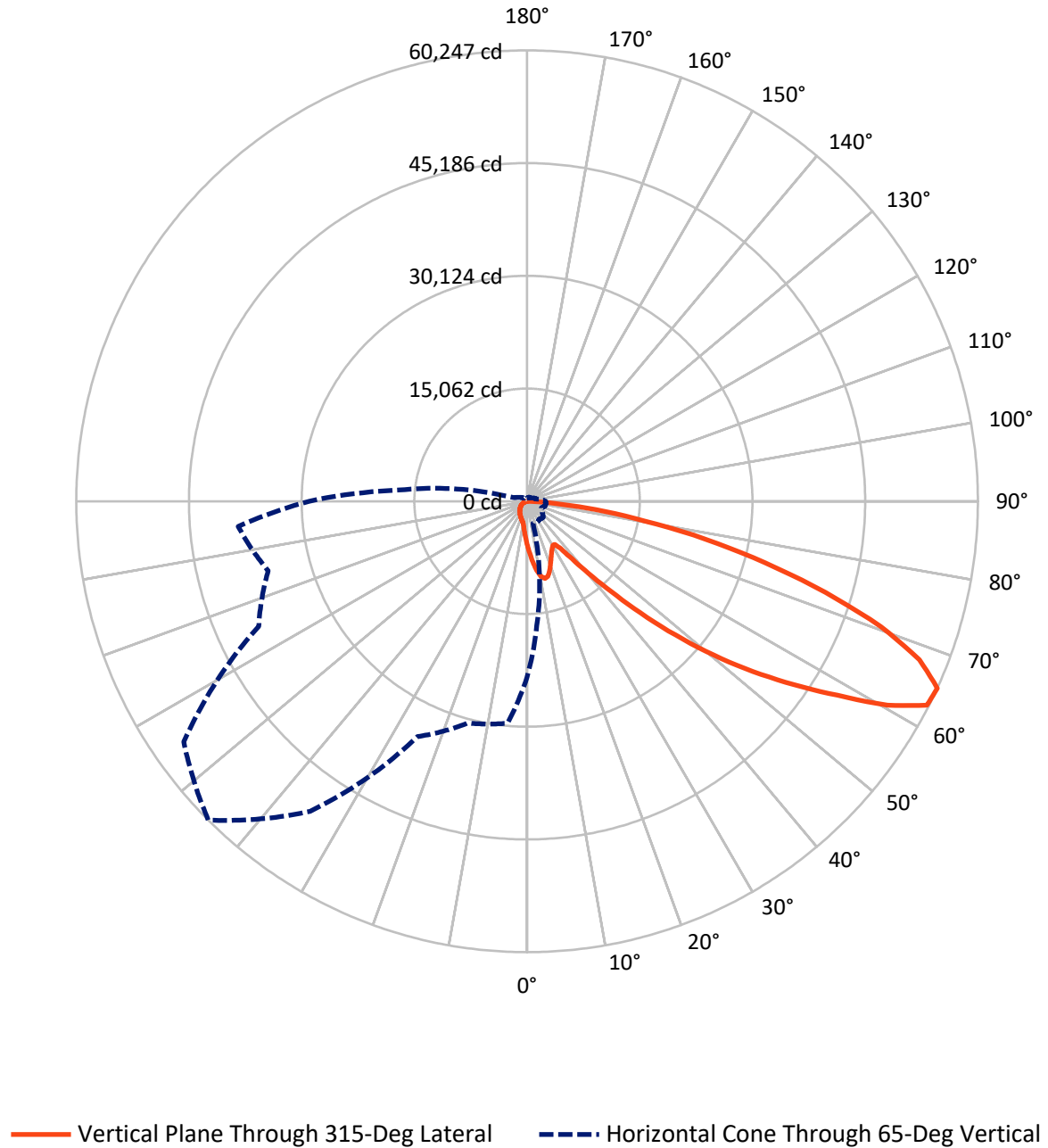
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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    | 6003.3   | 0.0    | 6003.3  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 36864.7  | 0.0    | 36864.7 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 42868.0  | 0.0    | 42868.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 584.4   | 1.4       |
| 10°-20°   | 1751.9  | 4.1       |
| 20°-30°   | 2580.9  | 6.0       |
| 30°-40°   | 3315.7  | 7.7       |
| 40°-50°   | 5362.5  | 12.5      |
| 50°-60°   | 9403.6  | 21.9      |
| 60°-70°   | 11766.5 | 27.4      |
| 70°-80°   | 6875.8  | 16.0      |
| 80°-90°   | 1226.7  | 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°    | 42868.0 | 100.0     |
| 0°-180°   | 42868.0 | 100.0     |

**Coefficient of Utilization**



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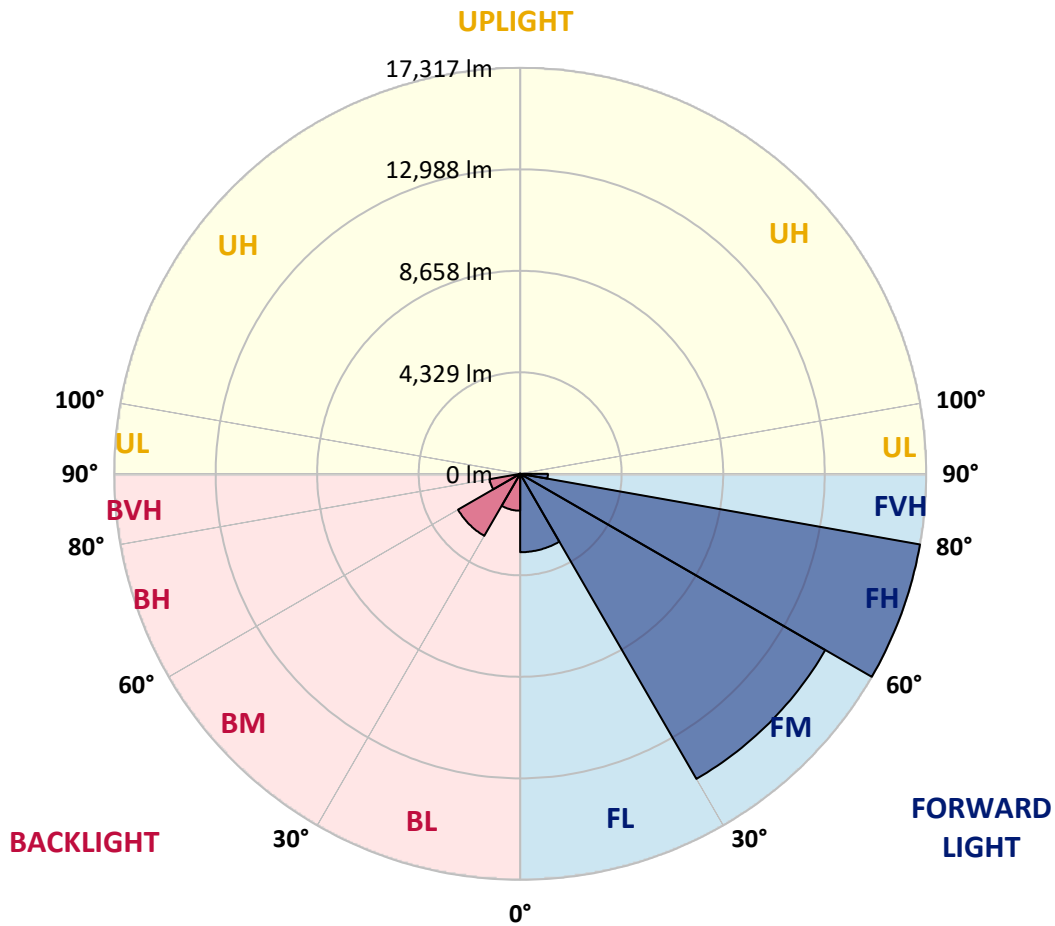
CATALOG NUMBER: GALN-SB8C-835-U-SLR-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3343.6  | 7.8       |                         |      |         |
| FM (30°-60°)   | 15024.8 | 35.0      |                         |      |         |
| FH (60°-80°)   | 17316.7 | 40.4      |                         |      | G5      |
| FVH (80°-90°)  | 1179.6  | 2.8       |                         |      | G5      |
| BL (0°-30°)    | 1573.6  | 3.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 3057.1  | 7.1       | B3/5000                 |      |         |
| BH (60°-80°)   | 1325.6  | 3.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 47.1    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5935.8  | 5935.8  | 5935.8  | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 |
| 2.5°  | 6706.6  | 6591.4  | 6523.5  | 6355.2 | 6186.9 | 6051.0 | 5867.9 | 5746.8 | 5602.1 | 5463.3 |
| 5°    | 7474.4  | 7288.4  | 7064.0  | 6756.8 | 6476.3 | 6189.8 | 5912.2 | 5637.6 | 5348.2 | 5082.4 |
| 7.5°  | 8124.1  | 7855.4  | 7459.7  | 7052.1 | 6694.8 | 6349.3 | 6024.4 | 5661.2 | 5309.8 | 4893.4 |
| 10°   | 8620.3  | 8277.7  | 7757.9  | 7223.4 | 6812.9 | 6464.5 | 6148.5 | 5841.3 | 5487.0 | 4984.9 |
| 12.5° | 8921.5  | 8555.3  | 7938.1  | 7312.0 | 6842.5 | 6452.6 | 6207.5 | 6071.7 | 5932.9 | 5433.8 |
| 15°   | 9143.0  | 8747.3  | 8065.1  | 7374.0 | 6774.5 | 6296.1 | 6116.0 | 6251.8 | 6411.3 | 6092.4 |
| 17.5° | 9373.3  | 8956.9  | 8230.4  | 7400.6 | 6591.4 | 5992.0 | 5915.2 | 6266.6 | 6635.7 | 6621.0 |
| 20°   | 9591.9  | 9178.4  | 8375.2  | 7382.9 | 6296.1 | 5622.8 | 5690.7 | 6139.6 | 6567.8 | 6748.0 |
| 22.5° | 9842.9  | 9405.8  | 8514.0  | 7315.0 | 5912.2 | 5277.3 | 5489.9 | 5938.8 | 6313.9 | 6526.5 |
| 25°   | 10150.0 | 9692.3  | 8708.9  | 7214.6 | 5498.8 | 4990.8 | 5286.2 | 5705.5 | 6009.7 | 6157.3 |
| 27.5° | 10480.8 | 10034.8 | 8968.7  | 7161.4 | 5165.1 | 4787.1 | 5055.8 | 5427.9 | 5699.6 | 5803.0 |
| 30°   | 10891.2 | 10433.5 | 9275.9  | 7102.3 | 4946.5 | 4668.9 | 4816.6 | 5106.0 | 5371.8 | 5475.2 |
| 32.5° | 11340.1 | 10876.5 | 9571.2  | 6960.6 | 4813.6 | 4580.3 | 4583.3 | 4766.4 | 5008.6 | 5132.6 |
| 35°   | 11901.2 | 11408.0 | 9887.2  | 6650.5 | 4707.3 | 4477.0 | 4355.9 | 4444.5 | 4645.3 | 4793.0 |
| 37.5° | 12701.5 | 12105.0 | 10274.0 | 6207.5 | 4550.8 | 4317.5 | 4116.7 | 4137.4 | 4290.9 | 4453.4 |
| 40°   | 13806.0 | 13041.1 | 10728.8 | 5746.8 | 4326.4 | 4093.1 | 3853.9 | 3845.0 | 3957.2 | 4116.7 |
| 42.5° | 15300.3 | 14278.5 | 11275.2 | 5306.8 | 4110.8 | 3821.4 | 3576.3 | 3561.5 | 3650.1 | 3788.9 |
| 45°   | 17273.0 | 15861.4 | 11945.5 | 4928.8 | 3942.5 | 3555.6 | 3313.4 | 3307.5 | 3381.4 | 3502.4 |
| 47.5° | 19798.0 | 18061.5 | 12615.9 | 4671.9 | 3853.9 | 3345.9 | 3097.9 | 3109.7 | 3174.6 | 3283.9 |
| 50°   | 23067.1 | 20929.0 | 12819.7 | 4542.0 | 3853.9 | 3233.7 | 2905.9 | 2965.0 | 3018.1 | 3100.8 |
| 52.5° | 26986.0 | 23681.4 | 12146.3 | 4423.8 | 3877.5 | 3248.5 | 2743.5 | 2870.5 | 2908.9 | 2979.7 |
| 55°   | 30618.3 | 25031.0 | 10442.4 | 4261.4 | 3883.4 | 3340.0 | 2604.7 | 2793.7 | 2864.6 | 2891.1 |
| 57.5° | 32726.9 | 24567.3 | 8443.1  | 3986.8 | 3859.8 | 3402.0 | 2516.1 | 2699.2 | 2835.0 | 2852.8 |
| 60°   | 32325.3 | 22940.1 | 6216.4  | 3777.1 | 3685.5 | 3378.4 | 2489.5 | 2554.5 | 2770.1 | 2796.6 |
| 62.5° | 29230.4 | 20211.4 | 4314.6  | 3614.7 | 3301.6 | 3275.1 | 2480.7 | 2327.1 | 2628.3 | 2693.3 |
| 65°   | 23495.3 | 15911.6 | 3047.7  | 3112.6 | 2894.1 | 3050.6 | 2433.4 | 2090.8 | 2457.0 | 2545.6 |
| 67.5° | 17045.6 | 10767.2 | 2200.1  | 2522.0 | 2622.4 | 2687.4 | 2327.1 | 1919.6 | 2262.1 | 2380.2 |
| 70°   | 10938.5 | 5814.8  | 1544.5  | 1665.6 | 2209.0 | 2282.8 | 2144.0 | 1766.0 | 2064.3 | 2200.1 |
| 72.5° | 7775.7  | 3434.5  | 1110.4  | 1166.5 | 1774.8 | 1901.8 | 1887.1 | 1594.7 | 1833.9 | 1999.3 |
| 75°   | 5365.9  | 1893.0  | 750.1   | 832.8  | 1287.6 | 1544.5 | 1455.9 | 1370.3 | 1553.4 | 1721.7 |
| 77.5° | 3363.6  | 847.6   | 448.9   | 578.8  | 844.6  | 1213.7 | 998.2  | 1060.2 | 1210.8 | 1367.3 |
| 80°   | 1872.3  | 327.8   | 251.0   | 383.9  | 460.7  | 883.0  | 552.2  | 682.2  | 891.9  | 1004.1 |
| 82.5° | 407.5   | 41.3    | 112.2   | 165.4  | 180.1  | 513.8  | 292.4  | 395.7  | 561.1  | 552.2  |
| 85°   | 0.0     | 0.0     | 20.7    | 23.6   | 11.8   | 221.5  | 106.3  | 129.9  | 183.1  | 171.3  |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.9    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5935.8 | 0°    | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 |
| 5339.3 | 2.5°  | 5315.7 | 5171.0 | 5064.7 | 5011.5 | 4967.2 | 5008.6 | 5032.2 | 5032.2 | 5132.6 | 5191.7 |
| 4920.0 | 5°    | 4816.6 | 4556.7 | 4358.9 | 4226.0 | 4146.2 | 4172.8 | 4202.3 | 4234.8 | 4361.8 | 4447.5 |
| 4671.9 | 7.5°  | 4471.1 | 4072.4 | 3771.2 | 3585.1 | 3487.7 | 3502.4 | 3523.1 | 3549.7 | 3673.7 | 3759.4 |
| 4707.3 | 10°   | 4406.1 | 3833.2 | 3407.9 | 3162.8 | 3044.7 | 3024.0 | 3012.2 | 3003.4 | 3077.2 | 3142.2 |
| 5109.0 | 12.5° | 4671.9 | 3845.0 | 3251.4 | 2953.2 | 2808.5 | 2746.4 | 2675.6 | 2619.5 | 2631.3 | 2672.6 |
| 5717.3 | 15°   | 5147.4 | 3995.6 | 3201.2 | 2843.9 | 2663.7 | 2560.4 | 2477.7 | 2409.8 | 2395.0 | 2409.8 |
| 6248.9 | 17.5° | 5690.7 | 4199.4 | 3195.3 | 2749.4 | 2524.9 | 2418.6 | 2350.7 | 2288.7 | 2268.0 | 2271.0 |
| 6547.1 | 20°   | 6051.0 | 4361.8 | 3177.6 | 2643.1 | 2392.1 | 2297.6 | 2238.5 | 2176.5 | 2155.8 | 2161.7 |
| 6464.5 | 22.5° | 6086.5 | 4447.5 | 3151.0 | 2524.9 | 2259.2 | 2179.4 | 2120.4 | 2064.3 | 2061.3 | 2061.3 |
| 6154.4 | 25°   | 5894.5 | 4447.5 | 3094.9 | 2418.6 | 2132.2 | 2061.3 | 2008.1 | 1940.2 | 1952.0 | 1957.9 |
| 5803.0 | 27.5° | 5596.2 | 4341.1 | 2988.6 | 2333.0 | 2022.9 | 1949.1 | 1895.9 | 1833.9 | 1848.7 | 1857.5 |
| 5475.2 | 30°   | 5300.9 | 4205.3 | 2861.6 | 2235.5 | 1919.6 | 1833.9 | 1795.5 | 1742.4 | 1748.3 | 1760.1 |
| 5150.3 | 32.5° | 5026.3 | 4060.6 | 2711.0 | 2155.8 | 1816.2 | 1730.6 | 1701.0 | 1642.0 | 1650.8 | 1662.6 |
| 4831.4 | 35°   | 4754.6 | 3901.1 | 2533.8 | 2061.3 | 1721.7 | 1636.0 | 1612.4 | 1544.5 | 1550.4 | 1568.1 |
| 4512.4 | 37.5° | 4462.2 | 3732.8 | 2389.1 | 1966.8 | 1630.1 | 1541.5 | 1517.9 | 1447.0 | 1453.0 | 1473.6 |
| 4181.7 | 40°   | 4155.1 | 3567.4 | 2247.4 | 1866.4 | 1532.7 | 1444.1 | 1423.4 | 1346.6 | 1352.5 | 1376.2 |
| 3856.8 | 42.5° | 3845.0 | 3387.3 | 2138.1 | 1736.5 | 1432.3 | 1337.8 | 1317.1 | 1246.2 | 1255.1 | 1281.7 |
| 3573.3 | 45°   | 3558.6 | 3171.7 | 2067.2 | 1591.8 | 1337.8 | 1231.5 | 1210.8 | 1145.8 | 1163.5 | 1193.1 |
| 3334.1 | 47.5° | 3313.4 | 2950.2 | 2037.7 | 1470.7 | 1237.4 | 1122.2 | 1104.5 | 1051.3 | 1080.9 | 1113.3 |
| 3130.3 | 50°   | 3103.8 | 2737.6 | 1999.3 | 1346.6 | 1142.9 | 1027.7 | 1010.0 | 974.5  | 1012.9 | 1045.4 |
| 2991.5 | 52.5° | 2953.2 | 2495.4 | 1916.6 | 1234.4 | 1060.2 | 948.0  | 942.1  | 924.3  | 959.8  | 989.3  |
| 2888.2 | 55°   | 2823.2 | 2244.4 | 1783.7 | 1137.0 | 986.4  | 880.0  | 885.9  | 877.1  | 906.6  | 930.2  |
| 2826.2 | 57.5° | 2705.1 | 2025.9 | 1615.4 | 1060.2 | 906.6  | 821.0  | 838.7  | 826.9  | 841.6  | 856.4  |
| 2761.2 | 60°   | 2563.3 | 1804.4 | 1414.6 | 974.5  | 812.1  | 761.9  | 782.6  | 750.1  | 747.1  | 753.1  |
| 2643.1 | 62.5° | 2353.7 | 1506.1 | 1204.9 | 868.2  | 729.4  | 696.9  | 705.8  | 643.8  | 596.5  | 596.5  |
| 2468.8 | 65°   | 2061.3 | 1210.8 | 1010.0 | 750.1  | 634.9  | 608.4  | 602.4  | 513.8  | 448.9  | 443.0  |
| 2279.8 | 67.5° | 1721.7 | 995.2  | 838.7  | 632.0  | 528.6  | 510.9  | 516.8  | 451.8  | 386.9  | 381.0  |
| 2090.8 | 70°   | 1402.7 | 823.9  | 676.3  | 505.0  | 407.5  | 425.3  | 451.8  | 386.9  | 324.8  | 316.0  |
| 1869.3 | 72.5° | 1139.9 | 655.6  | 528.6  | 386.9  | 301.2  | 351.4  | 383.9  | 316.0  | 256.9  | 251.0  |
| 1594.7 | 75°   | 880.0  | 481.4  | 378.0  | 262.8  | 218.5  | 271.7  | 301.2  | 230.3  | 183.1  | 174.2  |
| 1234.4 | 77.5° | 587.7  | 298.3  | 212.6  | 165.4  | 129.9  | 186.0  | 200.8  | 121.1  | 106.3  | 103.4  |
| 897.8  | 80°   | 357.3  | 138.8  | 91.5   | 79.7   | 44.3   | 67.9   | 79.7   | 50.2   | 56.1   | 59.1   |
| 478.4  | 82.5° | 180.1  | 38.4   | 14.8   | 3.0    | 0.0    | 0.0    | 23.6   | 11.8   | 23.6   | 29.5   |
| 129.9  | 85°   | 14.8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.9    | 14.8   |
| 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°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 5935.8 | 0°    | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8 | 5935.8  | 5935.8  | 5935.8  |
| 5215.3 | 2.5°  | 5380.7 | 5504.7 | 5622.8 | 5811.8 | 6006.7 | 6198.7 | 6393.6 | 6582.6  | 6650.5  | 6700.7  |
| 4503.6 | 5°    | 4760.5 | 4993.8 | 5265.5 | 5640.5 | 6042.2 | 6455.6 | 6875.0 | 7258.9  | 7433.1  | 7551.2  |
| 3833.2 | 7.5°  | 4119.7 | 4423.8 | 4813.6 | 5377.7 | 6006.7 | 6665.3 | 7323.8 | 7929.2  | 8209.8  | 8437.2  |
| 3201.2 | 10°   | 3484.7 | 3815.5 | 4308.7 | 4952.4 | 5803.0 | 6748.0 | 7657.5 | 8490.3  | 8853.6  | 9140.0  |
| 2746.4 | 12.5° | 2926.6 | 3236.7 | 3753.5 | 4465.2 | 5484.0 | 6683.0 | 7849.5 | 8850.6  | 9278.8  | 9600.7  |
| 2421.6 | 15°   | 2533.8 | 2752.3 | 3210.1 | 3977.9 | 5106.0 | 6473.3 | 7861.3 | 9021.9  | 9491.4  | 9828.1  |
| 2285.7 | 17.5° | 2315.3 | 2389.1 | 2687.4 | 3481.8 | 4686.7 | 6198.7 | 7752.0 | 9081.0  | 9583.0  | 9896.0  |
| 2164.7 | 20°   | 2197.1 | 2209.0 | 2291.7 | 2838.0 | 4149.2 | 5941.8 | 7648.7 | 9140.0  | 9668.6  | 9931.5  |
| 2079.0 | 22.5° | 2102.6 | 2102.6 | 2123.3 | 2321.2 | 3455.2 | 5634.6 | 7616.2 | 9243.4  | 9786.8  | 9949.2  |
| 1981.6 | 25°   | 2017.0 | 2017.0 | 2022.9 | 2076.1 | 2737.6 | 5165.1 | 7595.5 | 9402.9  | 9949.2  | 9993.5  |
| 1884.1 | 27.5° | 1928.4 | 1931.4 | 1931.4 | 1960.9 | 2206.0 | 4527.2 | 7506.9 | 9609.6  | 10144.1 | 10052.5 |
| 1789.6 | 30°   | 1839.8 | 1845.7 | 1845.7 | 1866.4 | 1952.0 | 3780.0 | 7332.7 | 9857.6  | 10398.1 | 10129.3 |
| 1695.1 | 32.5° | 1751.2 | 1757.1 | 1757.1 | 1774.8 | 1836.9 | 3018.1 | 7114.2 | 10085.0 | 10655.0 | 10161.8 |
| 1603.6 | 35°   | 1659.7 | 1668.5 | 1662.6 | 1686.3 | 1751.2 | 2400.9 | 6836.6 | 10312.4 | 10932.6 | 10265.2 |
| 1515.0 | 37.5° | 1568.1 | 1574.0 | 1571.1 | 1594.7 | 1668.5 | 2073.1 | 6514.7 | 10483.7 | 11310.6 | 10495.5 |
| 1420.5 | 40°   | 1476.6 | 1473.6 | 1473.6 | 1500.2 | 1579.9 | 1978.6 | 6110.1 | 10755.4 | 11854.0 | 10900.1 |
| 1326.0 | 42.5° | 1382.1 | 1382.1 | 1376.2 | 1405.7 | 1503.2 | 1907.7 | 5723.2 | 11242.7 | 12645.4 | 11543.9 |
| 1237.4 | 45°   | 1296.4 | 1293.5 | 1281.7 | 1308.2 | 1429.3 | 1783.7 | 5587.4 | 12152.2 | 13814.9 | 12586.4 |
| 1148.8 | 47.5° | 1213.7 | 1210.8 | 1181.3 | 1204.9 | 1340.7 | 1671.5 | 6095.3 | 13640.6 | 15436.2 | 14119.0 |
| 1077.9 | 50°   | 1139.9 | 1142.9 | 1086.8 | 1107.4 | 1252.1 | 1585.8 | 7196.8 | 15572.0 | 17589.0 | 16183.3 |
| 1018.8 | 52.5° | 1072.0 | 1072.0 | 998.2  | 1010.0 | 1142.9 | 1509.1 | 8245.2 | 17665.8 | 20429.9 | 19062.6 |
| 956.8  | 55°   | 1004.1 | 998.2  | 915.5  | 921.4  | 1033.6 | 1399.8 | 8401.7 | 19709.4 | 24304.5 | 23394.9 |
| 888.9  | 57.5° | 927.3  | 915.5  | 838.7  | 838.7  | 933.2  | 1320.1 | 7282.5 | 21280.5 | 29112.2 | 29761.9 |
| 761.9  | 60°   | 832.8  | 823.9  | 773.7  | 759.0  | 853.5  | 1390.9 | 5138.5 | 21463.5 | 32213.0 | 38228.6 |
| 605.4  | 62.5° | 711.7  | 723.5  | 696.9  | 676.3  | 776.7  | 1444.1 | 3044.7 | 19989.9 | 31462.9 | 40921.9 |
| 469.6  | 65°   | 561.1  | 608.4  | 602.4  | 587.7  | 853.5  | 1216.7 | 1798.5 | 17160.8 | 29162.4 | 38748.4 |
| 410.5  | 67.5° | 478.4  | 510.9  | 502.0  | 502.0  | 894.8  | 924.3  | 1131.1 | 13407.3 | 25996.6 | 36170.3 |
| 342.6  | 70°   | 407.5  | 440.0  | 407.5  | 407.5  | 676.3  | 561.1  | 782.6  | 9361.5  | 22579.8 | 33317.5 |
| 274.6  | 72.5° | 336.7  | 369.1  | 333.7  | 310.1  | 540.4  | 419.3  | 572.9  | 5850.2  | 19337.3 | 30346.6 |
| 194.9  | 75°   | 256.9  | 295.3  | 268.7  | 239.2  | 357.3  | 313.0  | 434.1  | 3399.1  | 16020.9 | 25964.2 |
| 118.1  | 77.5° | 162.4  | 212.6  | 200.8  | 168.3  | 262.8  | 227.4  | 313.0  | 2022.9  | 12361.9 | 20288.2 |
| 70.9   | 80°   | 100.4  | 109.3  | 112.2  | 106.3  | 150.6  | 153.6  | 212.6  | 1151.7  | 8460.8  | 14139.7 |
| 44.3   | 82.5° | 65.0   | 65.0   | 50.2   | 56.1   | 73.8   | 88.6   | 121.1  | 434.1   | 4973.1  | 8608.5  |
| 26.6   | 85°   | 47.3   | 41.3   | 26.6   | 26.6   | 35.4   | 44.3   | 47.3   | 132.9   | 2017.0  | 3399.1  |
| 11.8   | 87.5° | 23.6   | 20.7   | 8.9    | 11.8   | 17.7   | 14.8   | 11.8   | 5.9     | 507.9   | 1086.8  |
| 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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| 285°    |       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5935.8  | 0°    | 5935.8  | 5935.8  | 5935.8  | 5935.8  | 5935.8  | 5935.8  | 5935.8  | 5935.8  |
| 6812.9  | 2.5°  | 6872.0  | 6963.5  | 6969.5  | 6969.5  | 6889.7  | 6886.8  | 6724.3  | 6706.6  |
| 7817.0  | 5°    | 8091.7  | 8150.7  | 8165.5  | 8135.9  | 7976.5  | 7858.4  | 7542.4  | 7474.4  |
| 8841.8  | 7.5°  | 9207.9  | 9326.1  | 9326.1  | 9255.2  | 8995.3  | 8753.2  | 8295.4  | 8124.1  |
| 9689.3  | 10°   | 10099.8 | 10235.6 | 10206.1 | 10061.4 | 9733.6  | 9399.9  | 8844.7  | 8620.3  |
| 10203.2 | 12.5° | 10533.9 | 10672.7 | 10595.9 | 10430.6 | 10111.6 | 9760.2  | 9175.5  | 8921.5  |
| 10350.8 | 15°   | 10525.1 | 10486.7 | 10406.9 | 10386.3 | 10232.7 | 9966.9  | 9420.6  | 9143.0  |
| 10259.3 | 17.5° | 10150.0 | 9825.2  | 9763.1  | 9969.9  | 10164.8 | 10099.8 | 9633.2  | 9373.3  |
| 10040.7 | 20°   | 9556.4  | 8989.4  | 8933.3  | 9329.0  | 9884.2  | 10167.7 | 9831.1  | 9591.9  |
| 9724.7  | 22.5° | 8930.3  | 8319.0  | 8189.1  | 8626.2  | 9461.9  | 10188.4 | 10082.1 | 9842.9  |
| 9376.3  | 25°   | 8336.8  | 7722.5  | 7592.6  | 8000.1  | 8992.4  | 10153.0 | 10353.8 | 10150.0 |
| 9042.6  | 27.5° | 7840.6  | 7247.0  | 7126.0  | 7533.5  | 8540.5  | 10052.5 | 10625.5 | 10480.8 |
| 8711.8  | 30°   | 7456.7  | 6907.4  | 6818.8  | 7211.6  | 8150.7  | 9928.5  | 10971.0 | 10891.2 |
| 8404.7  | 32.5° | 7232.3  | 6830.7  | 6863.1  | 7185.0  | 7941.0  | 9792.7  | 11301.7 | 11340.1 |
| 8254.1  | 35°   | 7453.8  | 7471.5  | 7755.0  | 7887.9  | 8135.9  | 9772.0  | 11750.6 | 11901.2 |
| 8434.2  | 37.5° | 8555.3  | 9169.6  | 9757.2  | 9648.0  | 9089.8  | 10011.2 | 12421.0 | 12701.5 |
| 9219.8  | 40°   | 10430.6 | 11691.6 | 12645.4 | 12229.0 | 10823.3 | 10743.6 | 13386.7 | 13806.0 |
| 10613.6 | 42.5° | 12722.2 | 14860.3 | 16431.4 | 15315.1 | 13058.9 | 12025.3 | 14765.8 | 15300.3 |
| 12299.9 | 45°   | 15140.8 | 18767.3 | 21242.1 | 18920.9 | 15442.1 | 13820.8 | 16853.7 | 17273.0 |
| 13879.8 | 47.5° | 17689.4 | 23516.0 | 26717.2 | 22919.5 | 17651.0 | 15864.4 | 19700.5 | 19798.0 |
| 15377.1 | 50°   | 20477.2 | 28722.4 | 32298.7 | 26915.1 | 19783.2 | 18206.2 | 23179.3 | 23067.1 |
| 17122.4 | 52.5° | 23132.1 | 34076.5 | 37762.0 | 30928.4 | 21655.5 | 21112.1 | 27216.3 | 26986.0 |
| 19508.6 | 55°   | 25665.9 | 39427.6 | 43257.8 | 34785.2 | 23421.5 | 24951.2 | 32012.2 | 30618.3 |
| 22949.0 | 57.5° | 28604.3 | 44238.3 | 48922.0 | 38659.8 | 25890.3 | 29936.2 | 37375.2 | 32726.9 |
| 29537.5 | 60°   | 32948.4 | 49704.6 | 55327.4 | 43969.6 | 30585.9 | 35175.1 | 39297.7 | 32325.3 |
| 37428.3 | 62.5° | 38494.4 | 54730.9 | 59984.5 | 49173.0 | 35302.0 | 36161.4 | 36465.6 | 29230.4 |
| 35818.8 | 65°   | 39572.3 | 56003.7 | 60247.4 | 50564.0 | 34693.7 | 30674.4 | 29770.8 | 23495.3 |
| 31994.5 | 67.5° | 36713.7 | 53703.2 | 56573.6 | 47974.0 | 30689.2 | 23705.0 | 22340.6 | 17045.6 |
| 29484.3 | 70°   | 33506.5 | 49317.7 | 50171.2 | 43570.9 | 26991.9 | 17435.4 | 15087.7 | 10938.5 |
| 27765.6 | 72.5° | 30219.7 | 43467.5 | 41701.5 | 37838.8 | 23722.7 | 12695.6 | 10882.4 | 7775.7  |
| 25317.4 | 75°   | 26315.6 | 35774.5 | 32848.0 | 31439.3 | 19641.4 | 9964.0  | 7873.1  | 5365.9  |
| 21776.6 | 77.5° | 21073.7 | 25181.6 | 24399.0 | 24369.5 | 14759.9 | 7279.5  | 5253.7  | 3363.6  |
| 17013.1 | 80°   | 14866.2 | 16342.8 | 15944.1 | 18353.9 | 9901.9  | 5280.2  | 3162.8  | 1872.3  |
| 11842.2 | 82.5° | 7196.8  | 9036.7  | 9275.9  | 10929.6 | 4816.6  | 3106.7  | 729.4   | 407.5   |
| 4630.6  | 85°   | 2817.3  | 4358.9  | 3676.7  | 4149.2  | 1352.5  | 865.3   | 17.7    | 0.0     |
| 761.9   | 87.5° | 316.0   | 505.0   | 463.6   | 366.2   | 165.4   | 35.4    | 0.0     | 0.0     |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)