

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: P647626

Luminaire Tested: **GALN-SA8D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29209 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

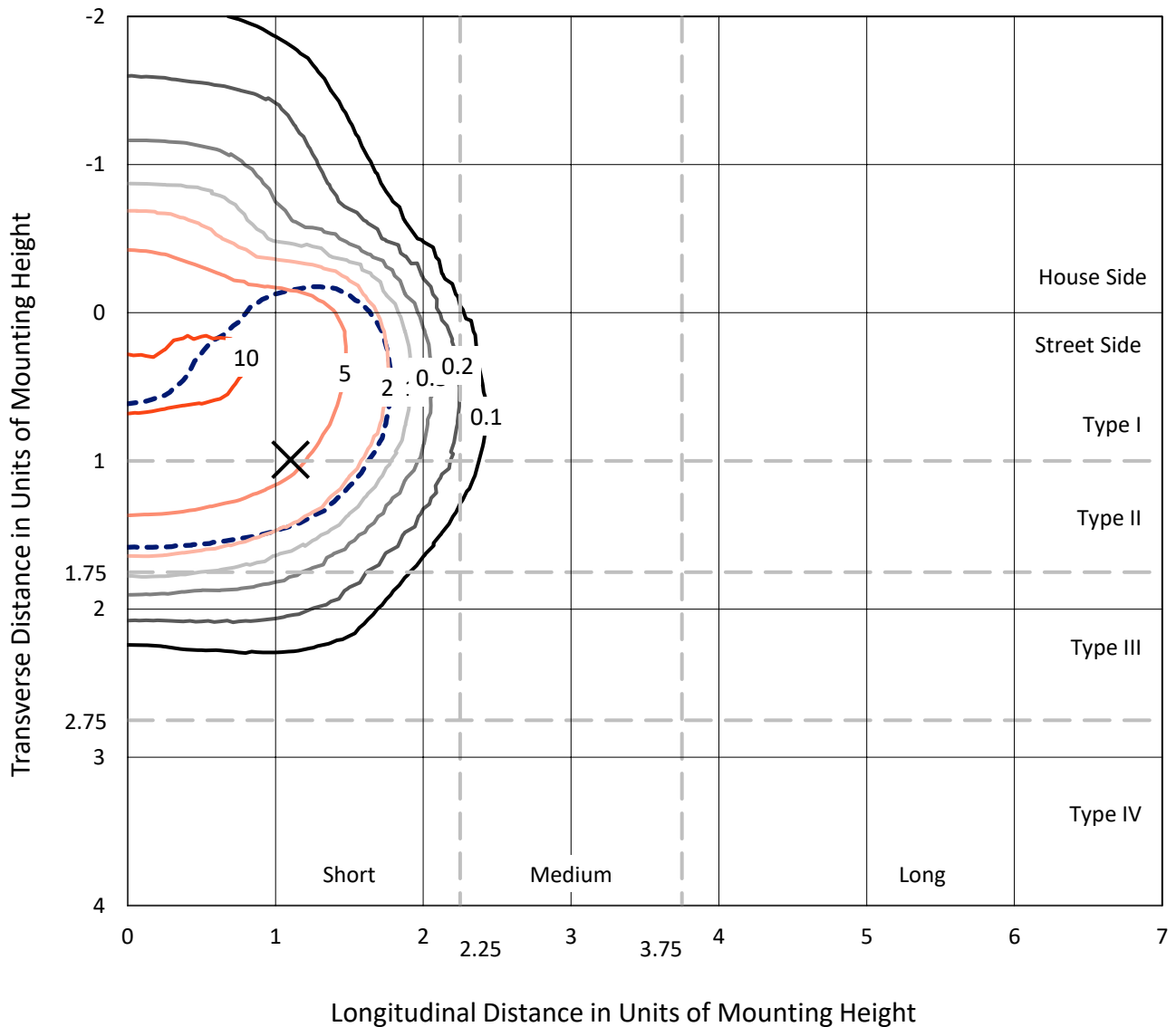
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

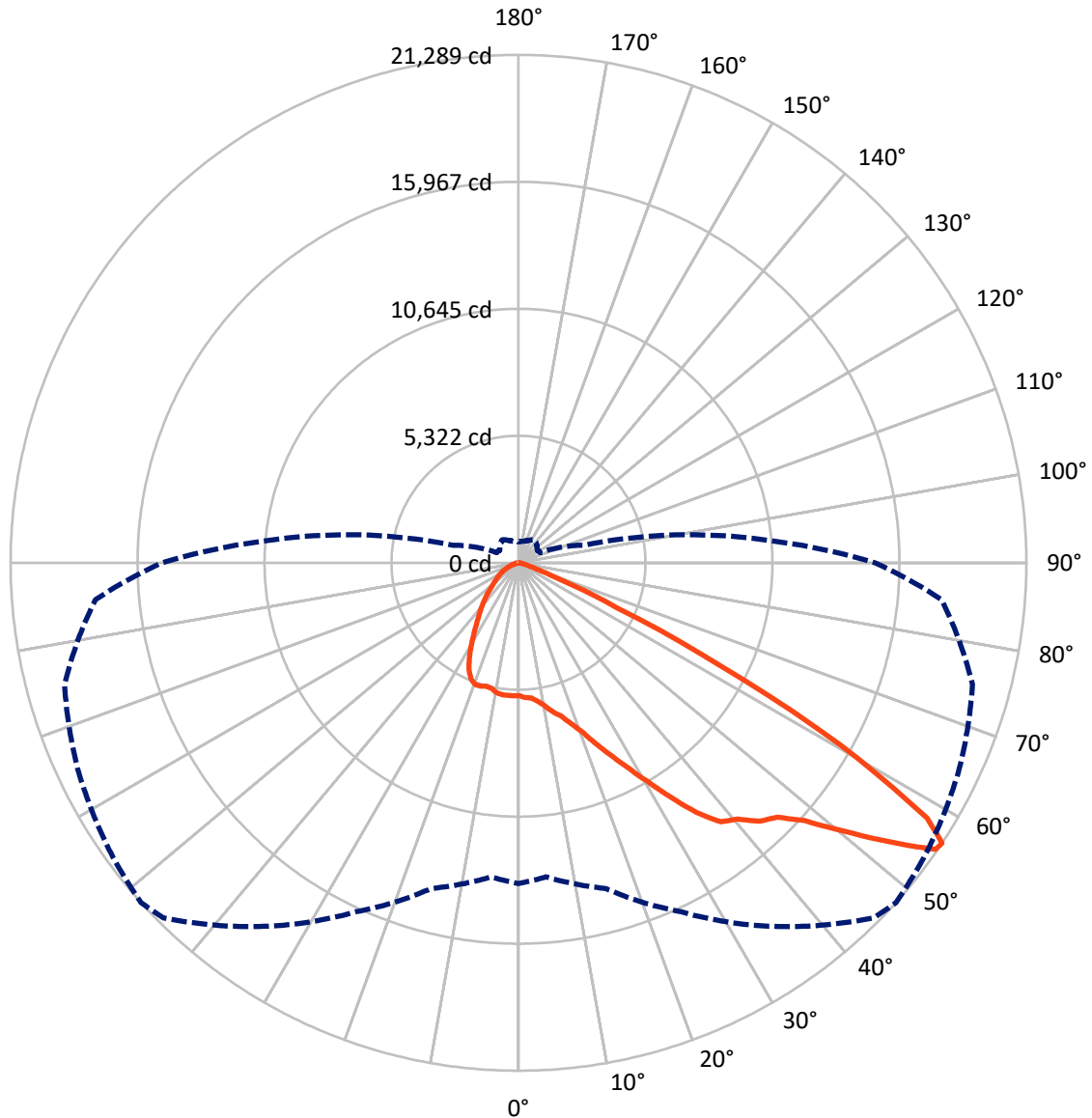
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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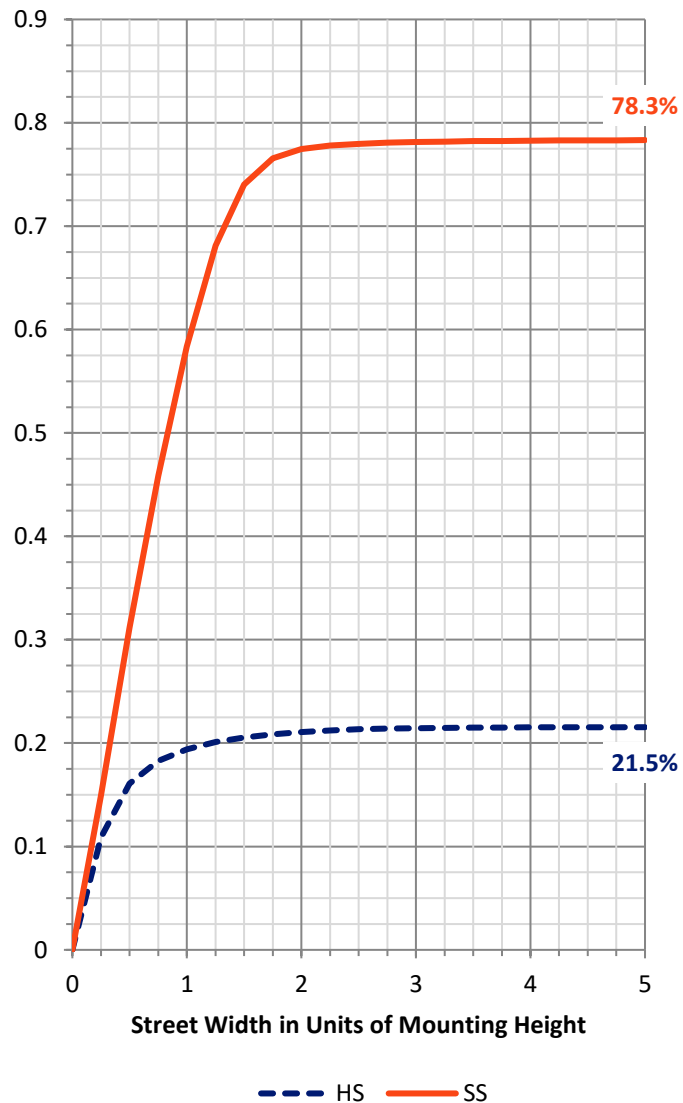
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6352.4   | 0.0    | 6352.4  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 22856.6  | 0.0    | 22856.6 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 29209.0  | 0.0    | 29209.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 543.4   | 1.9       |
| 10°-20°   | 1736.8  | 5.9       |
| 20°-30°   | 3150.2  | 10.8      |
| 30°-40°   | 4948.3  | 16.9      |
| 40°-50°   | 7218.6  | 24.7      |
| 50°-60°   | 8697.0  | 29.8      |
| 60°-70°   | 2546.4  | 8.7       |
| 70°-80°   | 323.0   | 1.1       |
| 80°-90°   | 45.3    | 0.2       |
| 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°    | 29209.0 | 100.0     |
| 0°-180°   | 29209.0 | 100.0     |

**Coefficient of Utilization**

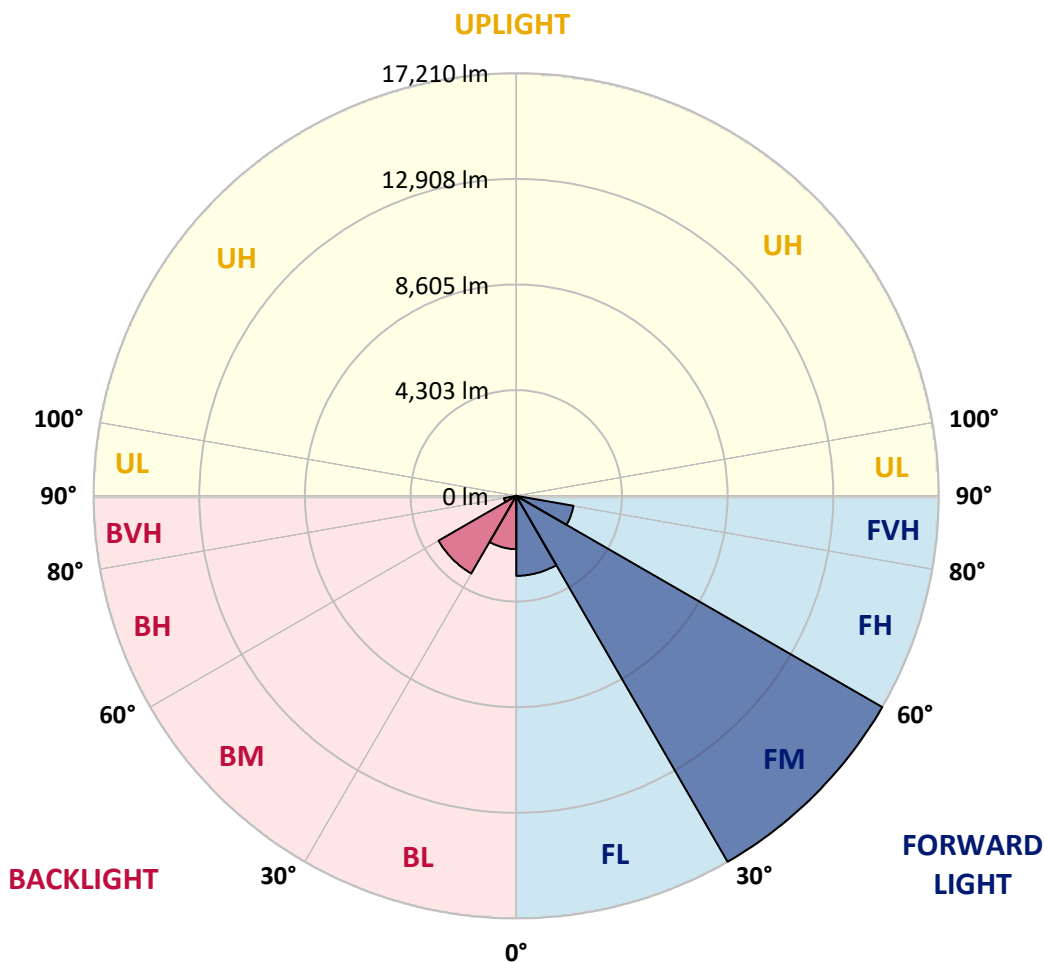


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3259.1  | 11.2      |                         |      |         |
| FM (30°-60°)   | 17210.0 | 58.9      |                         |      |         |
| FH (60°-80°)   | 2364.7  | 8.1       |                         |      | G2/5000 |
| FVH (80°-90°)  | 22.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2171.2  | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3653.9  | 12.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 504.8   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 22.6    | 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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 48°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  | 5579.0  |
| 2.5°  | 5680.0  | 5653.4  | 5653.4  | 5610.8  | 5658.7  | 5637.4  | 5653.4  | 5600.2  | 5653.4  | 5573.6  | 5637.4  |
| 5°    | 5706.6  | 5711.9  | 5690.6  | 5717.2  | 5717.2  | 5749.1  | 5695.9  | 5743.8  | 5770.4  | 5711.9  | 5685.3  |
| 7.5°  | 5844.9  | 5855.5  | 5850.2  | 5828.9  | 5871.5  | 5866.2  | 5860.8  | 5823.6  | 5834.2  | 5812.9  | 5781.0  |
| 10°   | 6116.1  | 6110.8  | 6137.4  | 6084.1  | 6052.3  | 6089.5  | 6100.1  | 6041.6  | 5999.1  | 5983.1  | 5882.1  |
| 12.5° | 6509.6  | 6445.8  | 6408.6  | 6355.5  | 6371.3  | 6318.2  | 6413.9  | 6312.9  | 6291.6  | 6195.9  | 6094.8  |
| 15°   | 6828.8  | 6818.1  | 6823.5  | 6738.3  | 6642.6  | 6663.9  | 6663.9  | 6610.7  | 6578.8  | 6461.8  | 6318.2  |
| 17.5° | 7482.9  | 7259.5  | 7307.4  | 7201.0  | 7121.2  | 7115.9  | 7068.1  | 7078.7  | 6993.6  | 6749.0  | 6530.9  |
| 20°   | 7993.5  | 7897.7  | 7823.3  | 7642.5  | 7520.2  | 7557.4  | 7536.1  | 7482.9  | 7456.3  | 7137.2  | 6828.8  |
| 22.5° | 8450.8  | 8482.8  | 8360.4  | 8312.6  | 8142.3  | 8158.3  | 8200.9  | 8153.0  | 7950.9  | 7621.2  | 7163.8  |
| 25°   | 9094.4  | 9057.1  | 8892.3  | 8833.7  | 8674.2  | 8732.7  | 8897.6  | 8860.3  | 8732.7  | 8137.1  | 7424.4  |
| 27.5° | 9854.9  | 9727.2  | 9759.2  | 9493.2  | 9339.0  | 9503.9  | 9700.7  | 9886.8  | 9525.1  | 8743.4  | 7732.8  |
| 30°   | 10392.1 | 10259.1 | 10248.5 | 10237.8 | 10200.6 | 10392.1 | 10620.7 | 10790.9 | 10498.4 | 9349.6  | 8243.4  |
| 32.5° | 10658.0 | 10689.8 | 10780.3 | 10748.4 | 11072.8 | 11466.3 | 11705.7 | 11950.3 | 11583.3 | 10338.9 | 8918.8  |
| 35°   | 11365.3 | 11163.2 | 11365.3 | 11386.5 | 11721.6 | 12556.6 | 12859.8 | 13444.7 | 13354.4 | 11737.6 | 9743.2  |
| 37.5° | 11780.2 | 11764.2 | 11790.7 | 11992.8 | 12317.3 | 13349.1 | 13779.8 | 14231.9 | 14061.7 | 12577.9 | 10769.6 |
| 40°   | 12466.2 | 12508.7 | 12503.4 | 12657.7 | 13014.0 | 13944.7 | 14120.2 | 14487.1 | 14503.1 | 13742.6 | 12280.0 |
| 42.5° | 13567.1 | 13396.9 | 13285.2 | 13444.7 | 13944.7 | 14460.6 | 14811.5 | 14737.2 | 15263.6 | 15157.2 | 14221.2 |
| 45°   | 14556.3 | 14657.4 | 14492.5 | 14758.4 | 14939.2 | 15215.8 | 15205.2 | 15364.7 | 16034.8 | 16540.0 | 15683.8 |
| 47.5° | 15481.7 | 15545.5 | 15625.3 | 15806.1 | 16199.6 | 16242.2 | 16151.8 | 16082.7 | 17008.0 | 17529.3 | 16816.6 |
| 50°   | 16034.8 | 16093.3 | 16465.6 | 16790.0 | 17523.9 | 17619.7 | 17672.9 | 17497.3 | 18124.9 | 18183.4 | 17885.6 |
| 52.5° | 15885.9 | 15949.7 | 16470.9 | 17539.9 | 18709.9 | 19587.4 | 19427.9 | 19130.1 | 19092.8 | 19321.5 | 18874.8 |
| 55°   | 14566.9 | 14508.4 | 15226.4 | 16891.0 | 19082.2 | 21188.3 | 21209.5 | 20895.8 | 20294.8 | 20140.6 | 18725.8 |
| 56°   | 13444.7 | 13216.1 | 14130.8 | 16141.2 | 18603.5 | 21050.0 | 21289.3 | 20954.3 | 20390.5 | 19699.1 | 17805.8 |
| 57.5° | 11014.3 | 11232.4 | 12141.7 | 13806.4 | 16949.5 | 20055.4 | 20193.7 | 20113.9 | 19688.5 | 18529.1 | 15667.8 |
| 60°   | 6073.6  | 6456.5  | 7259.5  | 9296.5  | 12067.3 | 15391.3 | 15502.9 | 16151.8 | 16231.6 | 14189.3 | 10780.3 |
| 62.5° | 2579.4  | 2536.8  | 3371.8  | 4871.6  | 6871.3  | 9291.2  | 9498.6  | 10163.3 | 10285.6 | 8179.6  | 5408.7  |
| 65°   | 1047.7  | 1106.2  | 1526.4  | 2451.7  | 3632.4  | 4233.4  | 4525.9  | 4744.0  | 5148.1  | 3377.2  | 1994.4  |
| 67.5° | 691.4   | 686.1   | 898.8   | 1398.8  | 1957.2  | 1888.0  | 1888.0  | 1994.4  | 1845.5  | 1377.5  | 861.5   |
| 70°   | 494.6   | 510.6   | 643.5   | 967.9   | 1217.9  | 904.1   | 866.9   | 829.7   | 941.3   | 909.5   | 696.7   |
| 72.5° | 324.4   | 345.7   | 430.8   | 579.7   | 632.9   | 494.6   | 494.6   | 595.6   | 776.5   | 733.9   | 569.1   |
| 75°   | 212.7   | 218.1   | 265.9   | 335.0   | 313.7   | 255.3   | 281.9   | 398.9   | 563.8   | 542.5   | 404.2   |
| 77.5° | 143.6   | 148.9   | 180.8   | 218.1   | 175.5   | 143.6   | 154.3   | 202.1   | 276.6   | 276.6   | 212.7   |
| 80°   | 53.2    | 58.5    | 74.5    | 69.1    | 79.8    | 101.1   | 111.7   | 138.3   | 164.9   | 164.9   | 143.6   |
| 82.5° | 0.0     | 5.3     | 16.0    | 37.2    | 58.5    | 79.8    | 90.4    | 106.3   | 122.3   | 138.3   | 133.0   |
| 85°   | 0.0     | 5.3     | 16.0    | 26.6    | 42.5    | 47.8    | 53.2    | 37.2    | 31.9    | 31.9    | 26.6    |
| 87.5° | 0.0     | 0.0     | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     | 10.6    | 5.3     | 5.3     |
| 90°   | 0.0     | 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°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5579.0  | 5579.0  | 5579.0 | 5579.0 | 5579.0 | 5579.0 | 5579.0 | 5579.0 | 5579.0 | 5579.0 | 5579.0 |
| 2.5°  | 5579.0  | 5573.6  | 5573.6 | 5557.7 | 5589.6 | 5573.6 | 5584.3 | 5579.0 | 5509.8 | 5563.0 | 5525.8 |
| 5°    | 5637.4  | 5674.6  | 5616.1 | 5605.5 | 5563.0 | 5579.0 | 5579.0 | 5525.8 | 5573.6 | 5568.3 | 5557.7 |
| 7.5°  | 5786.4  | 5722.6  | 5658.7 | 5594.9 | 5584.3 | 5568.3 | 5509.8 | 5488.5 | 5525.8 | 5483.2 | 5547.0 |
| 10°   | 5850.2  | 5860.8  | 5765.1 | 5680.0 | 5600.2 | 5488.5 | 5408.7 | 5360.9 | 5302.4 | 5366.2 | 5403.4 |
| 12.5° | 6142.7  | 6036.3  | 5871.5 | 5738.5 | 5467.2 | 5355.6 | 5275.8 | 5254.6 | 5355.6 | 5376.9 | 5339.6 |
| 15°   | 6243.7  | 6227.7  | 6015.0 | 5717.2 | 5435.4 | 5302.4 | 5318.4 | 5275.8 | 5286.4 | 5233.3 | 5243.9 |
| 17.5° | 6451.1  | 6270.3  | 6020.3 | 5648.1 | 5430.0 | 5398.1 | 5302.4 | 5132.2 | 5036.5 | 4993.9 | 5031.2 |
| 20°   | 6679.9  | 6504.3  | 6142.7 | 5674.6 | 5477.9 | 5392.8 | 5079.0 | 4871.6 | 4674.8 | 4568.5 | 4573.7 |
| 22.5° | 6881.9  | 6663.9  | 6089.5 | 5685.3 | 5520.5 | 5169.4 | 4791.8 | 4382.3 | 4137.7 | 3972.8 | 3978.1 |
| 25°   | 7126.6  | 6818.1  | 6110.8 | 5706.6 | 5408.7 | 4813.1 | 4270.6 | 3871.8 | 3579.2 | 3467.6 | 3504.8 |
| 27.5° | 7264.8  | 6913.8  | 6227.7 | 5754.4 | 5116.3 | 4307.8 | 3722.9 | 3350.5 | 3180.4 | 3127.1 | 3121.9 |
| 30°   | 7679.7  | 7126.6  | 6371.3 | 5658.7 | 4627.0 | 3765.4 | 3222.9 | 2994.2 | 2829.4 | 2781.5 | 2792.1 |
| 32.5° | 8296.6  | 7514.8  | 6557.5 | 5408.7 | 4127.0 | 3281.4 | 2898.5 | 2728.3 | 2574.1 | 2483.7 | 2473.0 |
| 35°   | 8812.5  | 8179.6  | 6754.3 | 5020.5 | 3547.3 | 2909.2 | 2669.8 | 2457.1 | 2223.1 | 2122.0 | 2095.5 |
| 37.5° | 9796.3  | 8929.5  | 6711.7 | 4435.5 | 2994.2 | 2632.6 | 2425.2 | 2164.5 | 1962.4 | 1824.2 | 1808.3 |
| 40°   | 11104.7 | 9807.0  | 6504.3 | 3722.9 | 2584.7 | 2387.9 | 2164.5 | 1914.6 | 1664.7 | 1547.6 | 1537.0 |
| 42.5° | 12694.9 | 10881.4 | 6126.7 | 2999.5 | 2175.2 | 2143.3 | 1941.2 | 1654.0 | 1430.6 | 1345.5 | 1350.8 |
| 45°   | 13987.2 | 11801.4 | 5743.8 | 2409.2 | 1872.1 | 1903.9 | 1728.5 | 1457.2 | 1303.0 | 1233.9 | 1233.9 |
| 47.5° | 15136.0 | 12423.6 | 5328.9 | 1989.1 | 1590.2 | 1664.7 | 1510.4 | 1350.8 | 1217.9 | 1164.7 | 1154.1 |
| 50°   | 16242.2 | 13056.5 | 4914.1 | 1611.5 | 1356.2 | 1430.6 | 1414.6 | 1287.0 | 1180.7 | 1116.9 | 1122.2 |
| 52.5° | 16933.6 | 13157.5 | 4387.6 | 1319.0 | 1186.0 | 1271.1 | 1324.3 | 1207.2 | 1090.2 | 1053.1 | 1042.4 |
| 55°   | 16088.0 | 11854.5 | 3403.7 | 1084.9 | 1005.1 | 1116.9 | 1217.9 | 1084.9 | 994.6  | 930.7  | 925.4  |
| 56°   | 14949.8 | 10599.5 | 2845.3 | 999.8  | 952.0  | 1074.3 | 1180.7 | 1037.1 | 936.0  | 898.8  | 872.2  |
| 57.5° | 12657.7 | 8674.2  | 2100.7 | 888.2  | 882.8  | 999.8  | 1122.2 | 989.2  | 872.2  | 840.3  | 840.3  |
| 60°   | 7892.4  | 4882.2  | 1271.1 | 744.6  | 765.9  | 888.2  | 1010.5 | 882.8  | 776.5  | 776.5  | 792.4  |
| 62.5° | 3595.2  | 2031.6  | 771.2  | 632.9  | 659.4  | 765.9  | 898.8  | 797.7  | 739.2  | 797.7  | 808.4  |
| 65°   | 1223.2  | 877.5   | 558.4  | 505.3  | 521.2  | 632.9  | 771.2  | 808.4  | 803.0  | 840.3  | 861.5  |
| 67.5° | 686.1   | 563.8   | 468.0  | 420.2  | 409.5  | 468.0  | 632.9  | 808.4  | 776.5  | 760.5  | 771.2  |
| 70°   | 579.7   | 478.6   | 414.8  | 372.3  | 356.3  | 377.6  | 489.3  | 611.6  | 547.8  | 531.8  | 521.2  |
| 72.5° | 468.0   | 398.9   | 361.7  | 335.0  | 287.2  | 244.6  | 223.4  | 234.0  | 260.6  | 276.6  | 303.2  |
| 75°   | 329.7   | 303.2   | 303.2  | 271.2  | 207.4  | 154.3  | 122.3  | 101.1  | 69.1   | 47.8   | 53.2   |
| 77.5° | 186.1   | 186.1   | 191.4  | 164.9  | 133.0  | 101.1  | 74.5   | 53.2   | 26.6   | 10.6   | 5.3    |
| 80°   | 127.6   | 138.3   | 148.9  | 133.0  | 111.7  | 90.4   | 63.8   | 37.2   | 16.0   | 0.0    | 0.0    |
| 82.5° | 127.6   | 143.6   | 154.3  | 133.0  | 111.7  | 85.1   | 63.8   | 37.2   | 16.0   | 5.3    | 0.0    |
| 85°   | 26.6    | 31.9    | 37.2   | 42.5   | 63.8   | 63.8   | 47.8   | 31.9   | 16.0   | 5.3    | 0.0    |
| 87.5° | 5.3     | 5.3     | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 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    | 0.0    |

(END OF REPORT)