

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: P533599

Luminaire Tested: **GALN-SA9A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533599  
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-SA9A-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 23063 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

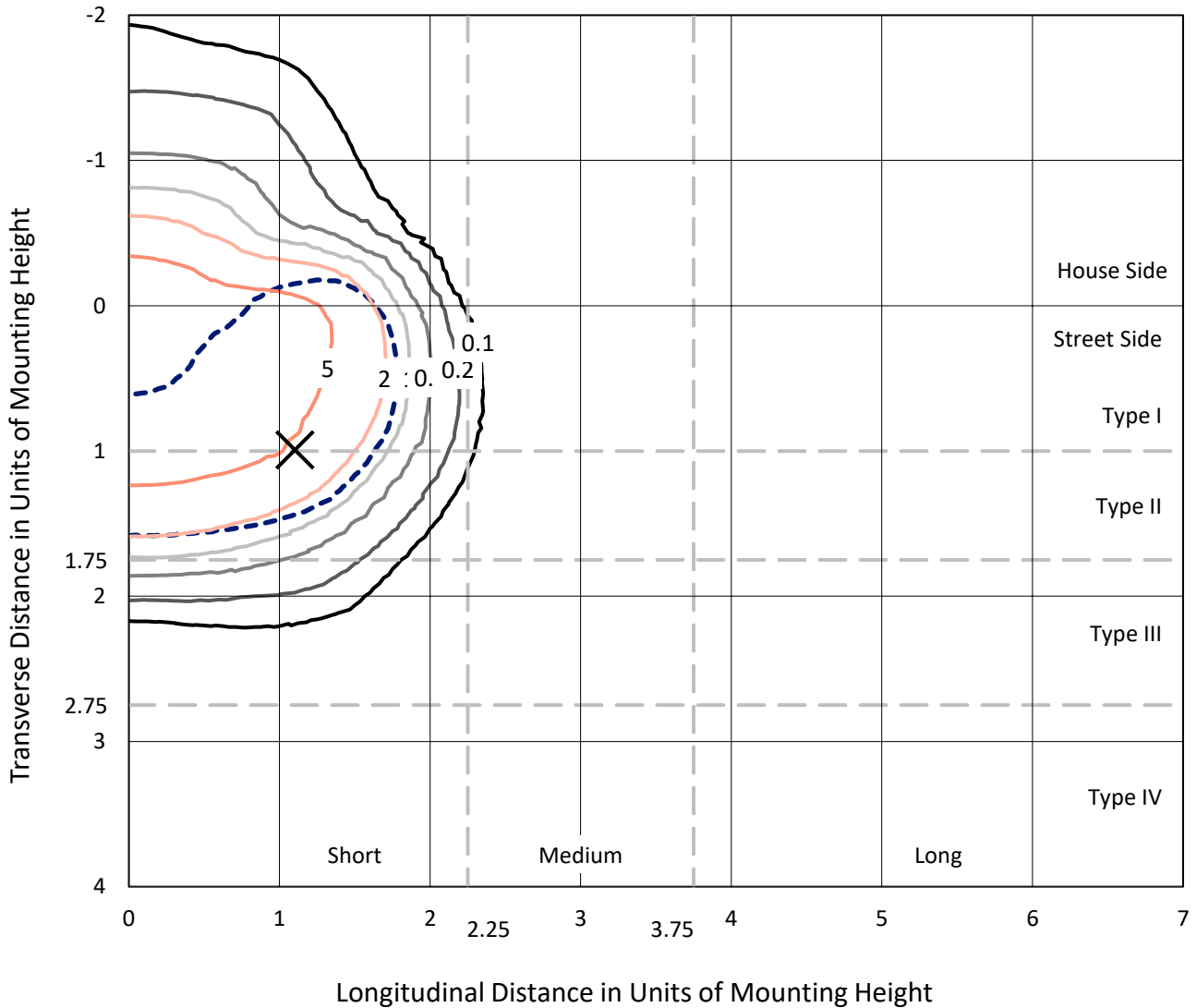
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

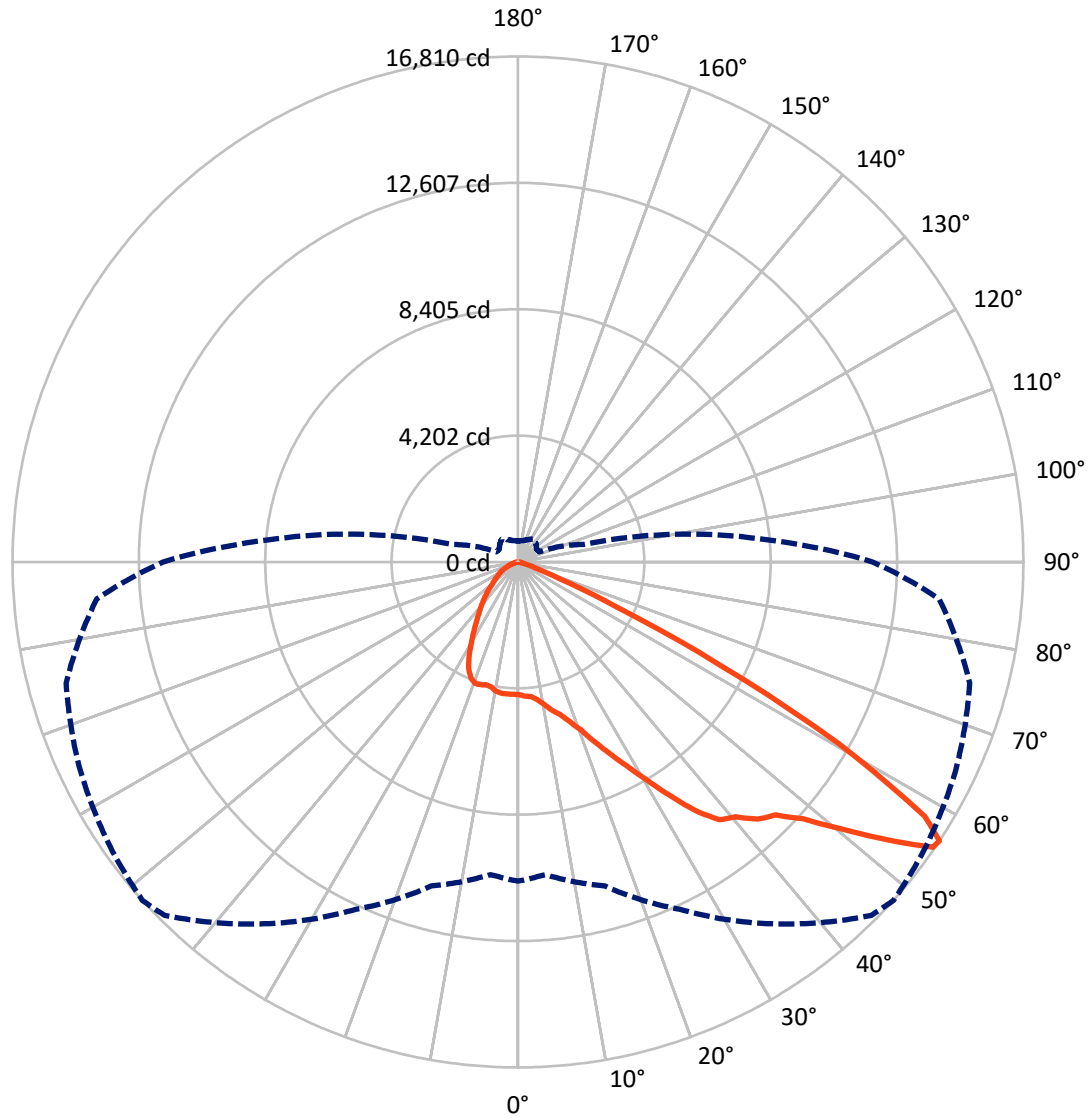
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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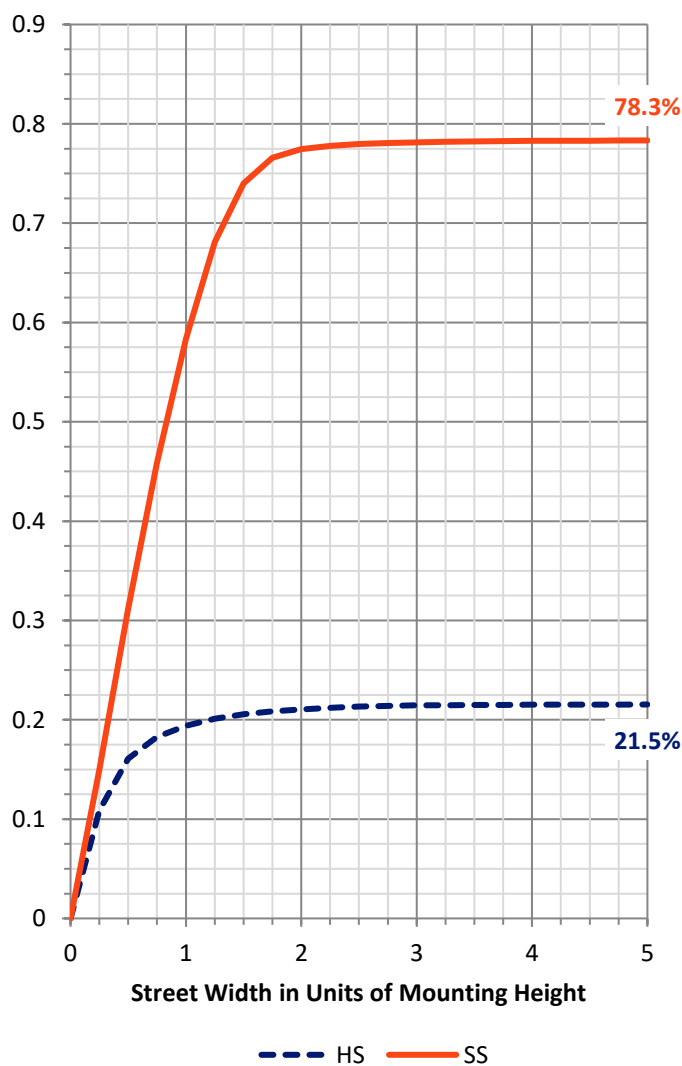
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5015.8   | 0.0    | 5015.8  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 18047.2  | 0.0    | 18047.2 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 23063.0  | 0.0    | 23063.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 429.1   | 1.9       |
| 10°-20°   | 1371.3  | 5.9       |
| 20°-30°   | 2487.3  | 10.8      |
| 30°-40°   | 3907.1  | 16.9      |
| 40°-50°   | 5699.7  | 24.7      |
| 50°-60°   | 6867.0  | 29.8      |
| 60°-70°   | 2010.6  | 8.7       |
| 70°-80°   | 255.1   | 1.1       |
| 80°-90°   | 35.8    | 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°    | 23063.0 | 100.0     |
| 0°-180°   | 23063.0 | 100.0     |

**Coefficient of Utilization**

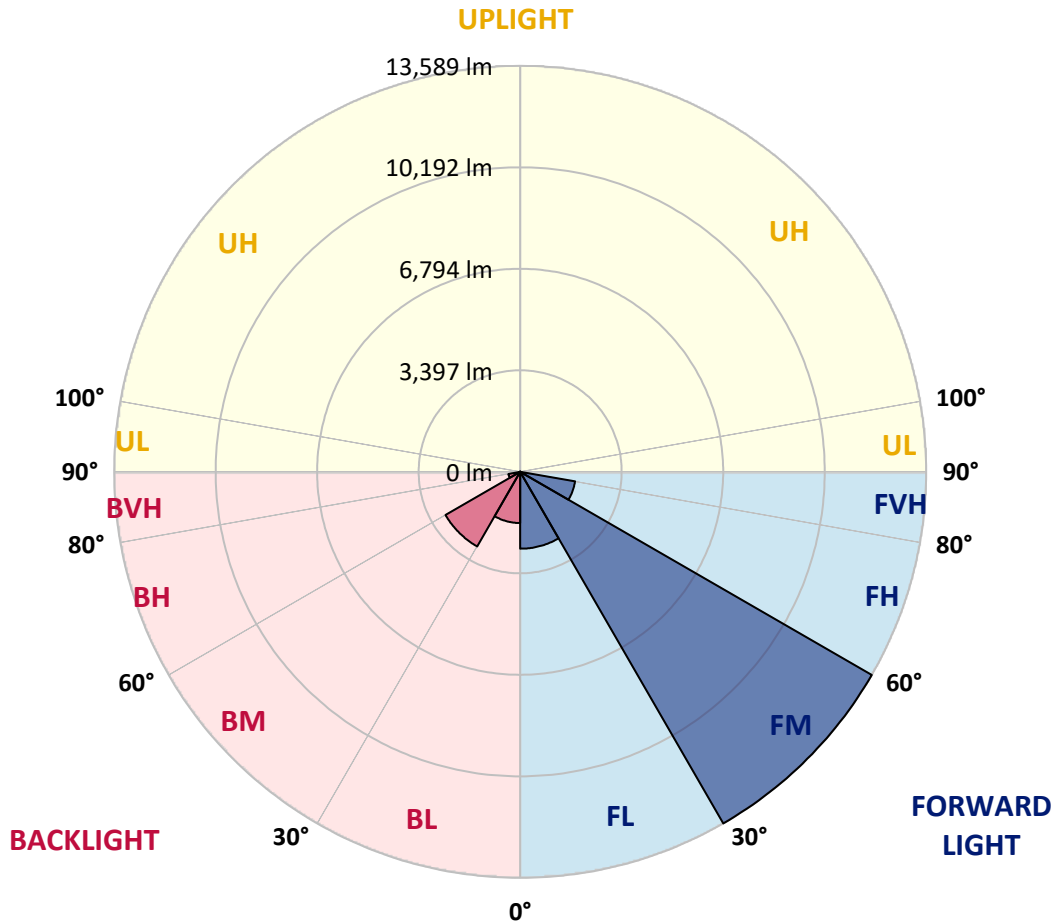


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2573.4  | 11.2      |                         |      |         |
| FM (30°-60°)   | 13588.8 | 58.9      |                         |      |         |
| FH (60°-80°)   | 1867.1  | 8.1       |                         |      | G2/5000 |
| FVH (80°-90°)  | 18.0    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1714.4  | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2885.0  | 12.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 398.5   | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 17.8    | 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°    | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  |
| 2.5°  | 4484.8  | 4463.8  | 4463.8  | 4430.2  | 4468.0  | 4451.2  | 4463.8  | 4421.8  | 4463.8  | 4400.8  | 4451.2  |
| 5°    | 4505.8  | 4510.0  | 4493.2  | 4514.2  | 4514.2  | 4539.4  | 4497.4  | 4535.2  | 4556.2  | 4510.0  | 4489.0  |
| 7.5°  | 4615.0  | 4623.4  | 4619.2  | 4602.4  | 4636.0  | 4631.8  | 4627.6  | 4598.2  | 4606.6  | 4589.8  | 4564.6  |
| 10°   | 4829.2  | 4825.0  | 4846.0  | 4804.0  | 4778.8  | 4808.2  | 4816.6  | 4770.4  | 4736.8  | 4724.2  | 4644.4  |
| 12.5° | 5139.9  | 5089.5  | 5060.1  | 5018.1  | 5030.7  | 4988.7  | 5064.3  | 4984.5  | 4967.7  | 4892.2  | 4812.4  |
| 15°   | 5391.9  | 5383.5  | 5387.7  | 5320.5  | 5244.9  | 5261.7  | 5261.7  | 5219.7  | 5194.5  | 5102.1  | 4988.7  |
| 17.5° | 5908.4  | 5732.0  | 5769.8  | 5685.8  | 5622.8  | 5618.6  | 5580.8  | 5589.2  | 5522.1  | 5328.9  | 5156.7  |
| 20°   | 6311.5  | 6235.9  | 6177.1  | 6034.4  | 5937.8  | 5967.2  | 5950.4  | 5908.4  | 5887.4  | 5635.4  | 5391.9  |
| 22.5° | 6672.7  | 6697.8  | 6601.3  | 6563.5  | 6429.1  | 6441.7  | 6475.3  | 6437.5  | 6277.9  | 6017.6  | 5656.4  |
| 25°   | 7180.8  | 7151.4  | 7021.2  | 6975.0  | 6849.0  | 6895.2  | 7025.4  | 6996.0  | 6895.2  | 6424.9  | 5862.2  |
| 27.5° | 7781.3  | 7680.5  | 7705.7  | 7495.7  | 7373.9  | 7504.1  | 7659.5  | 7806.5  | 7520.9  | 6903.6  | 6105.8  |
| 30°   | 8205.4  | 8100.4  | 8092.0  | 8083.6  | 8054.2  | 8205.4  | 8386.0  | 8520.3  | 8289.4  | 7382.3  | 6508.9  |
| 32.5° | 8415.4  | 8440.5  | 8511.9  | 8486.7  | 8742.9  | 9053.6  | 9242.6  | 9435.8  | 9146.0  | 8163.4  | 7042.2  |
| 35°   | 8973.9  | 8814.3  | 8973.9  | 8990.7  | 9255.2  | 9914.5  | 10153.9 | 10615.8 | 10544.4 | 9267.8  | 7693.1  |
| 37.5° | 9301.4  | 9288.8  | 9309.8  | 9469.4  | 9725.5  | 10540.2 | 10880.3 | 11237.3 | 11102.9 | 9931.3  | 8503.5  |
| 40°   | 9843.1  | 9876.7  | 9872.5  | 9994.3  | 10275.6 | 11010.5 | 11149.1 | 11438.8 | 11451.4 | 10850.9 | 9696.1  |
| 42.5° | 10712.4 | 10578.0 | 10489.8 | 10615.8 | 11010.5 | 11417.8 | 11695.0 | 11636.2 | 12051.9 | 11967.9 | 11228.9 |
| 45°   | 11493.4 | 11573.2 | 11443.0 | 11653.0 | 11795.8 | 12014.1 | 12005.7 | 12131.7 | 12660.8 | 13059.8 | 12383.7 |
| 47.5° | 12224.1 | 12274.5 | 12337.5 | 12480.3 | 12791.0 | 12824.6 | 12753.2 | 12698.6 | 13429.3 | 13840.8 | 13278.1 |
| 50°   | 12660.8 | 12707.0 | 13001.0 | 13257.1 | 13836.6 | 13912.2 | 13954.2 | 13815.6 | 14311.1 | 14357.3 | 14122.2 |
| 52.5° | 12543.2 | 12593.6 | 13005.2 | 13849.2 | 14773.1 | 15465.9 | 15340.0 | 15104.8 | 15075.4 | 15256.0 | 14903.2 |
| 55°   | 11501.8 | 11455.6 | 12022.5 | 13336.9 | 15067.0 | 16729.9 | 16746.7 | 16499.0 | 16024.4 | 15902.7 | 14785.7 |
| 56°   | 10615.8 | 10435.2 | 11157.5 | 12744.8 | 14689.1 | 16620.7 | 16809.7 | 16545.2 | 16100.0 | 15554.1 | 14059.2 |
| 57.5° | 8696.7  | 8868.9  | 9587.0  | 10901.3 | 13383.1 | 15835.5 | 15944.7 | 15881.7 | 15545.7 | 14630.3 | 12371.1 |
| 60°   | 4795.6  | 5097.9  | 5732.0  | 7340.3  | 9528.2  | 12152.7 | 12240.9 | 12753.2 | 12816.2 | 11203.7 | 8511.9  |
| 62.5° | 2036.6  | 2003.1  | 2662.3  | 3846.5  | 5425.5  | 7336.1  | 7499.9  | 8024.8  | 8121.4  | 6458.5  | 4270.7  |
| 65°   | 827.3   | 873.4   | 1205.2  | 1935.9  | 2868.1  | 3342.6  | 3573.6  | 3745.8  | 4064.9  | 2666.5  | 1574.7  |
| 67.5° | 545.9   | 541.7   | 709.7   | 1104.4  | 1545.3  | 1490.7  | 1490.7  | 1574.7  | 1457.1  | 1087.6  | 680.3   |
| 70°   | 390.5   | 403.1   | 508.1   | 764.3   | 961.6   | 713.9   | 684.5   | 655.1   | 743.3   | 718.1   | 550.1   |
| 72.5° | 256.2   | 273.0   | 340.1   | 457.7   | 499.7   | 390.5   | 390.5   | 470.3   | 613.1   | 579.5   | 449.3   |
| 75°   | 168.0   | 172.2   | 210.0   | 264.6   | 247.8   | 201.6   | 222.6   | 314.9   | 445.1   | 428.3   | 319.1   |
| 77.5° | 113.4   | 117.6   | 142.8   | 172.2   | 138.6   | 113.4   | 121.8   | 159.6   | 218.4   | 218.4   | 168.0   |
| 80°   | 42.0    | 46.2    | 58.8    | 54.6    | 63.0    | 79.8    | 88.2    | 109.2   | 130.2   | 130.2   | 113.4   |
| 82.5° | 0.0     | 4.2     | 12.6    | 29.4    | 46.2    | 63.0    | 71.4    | 84.0    | 96.6    | 109.2   | 105.0   |
| 85°   | 0.0     | 4.2     | 12.6    | 21.0    | 33.6    | 37.8    | 42.0    | 29.4    | 25.2    | 25.2    | 21.0    |
| 87.5° | 0.0     | 0.0     | 4.2     | 4.2     | 4.2     | 4.2     | 4.2     | 4.2     | 8.4     | 4.2     | 4.2     |
| 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°    | 4405.0  | 4405.0  | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 |
| 2.5°  | 4405.0  | 4400.8  | 4400.8 | 4388.2 | 4413.4 | 4400.8 | 4409.2 | 4405.0 | 4350.5 | 4392.4 | 4363.1 |
| 5°    | 4451.2  | 4480.6  | 4434.4 | 4426.0 | 4392.4 | 4405.0 | 4405.0 | 4363.1 | 4400.8 | 4396.6 | 4388.2 |
| 7.5°  | 4568.8  | 4518.4  | 4468.0 | 4417.6 | 4409.2 | 4396.6 | 4350.5 | 4333.7 | 4363.1 | 4329.5 | 4379.8 |
| 10°   | 4619.2  | 4627.6  | 4552.0 | 4484.8 | 4421.8 | 4333.7 | 4270.7 | 4232.9 | 4186.7 | 4237.1 | 4266.5 |
| 12.5° | 4850.2  | 4766.2  | 4636.0 | 4531.0 | 4316.9 | 4228.7 | 4165.7 | 4148.9 | 4228.7 | 4245.5 | 4216.1 |
| 15°   | 4930.0  | 4917.4  | 4749.4 | 4514.2 | 4291.7 | 4186.7 | 4199.3 | 4165.7 | 4174.1 | 4132.1 | 4140.5 |
| 17.5° | 5093.7  | 4950.9  | 4753.6 | 4459.6 | 4287.5 | 4262.3 | 4186.7 | 4052.3 | 3976.7 | 3943.1 | 3972.5 |
| 20°   | 5274.3  | 5135.7  | 4850.2 | 4480.6 | 4325.3 | 4258.1 | 4010.3 | 3846.5 | 3691.2 | 3607.2 | 3611.4 |
| 22.5° | 5433.9  | 5261.7  | 4808.2 | 4489.0 | 4358.9 | 4081.7 | 3783.5 | 3460.2 | 3267.0 | 3136.9 | 3141.1 |
| 25°   | 5627.0  | 5383.5  | 4825.0 | 4505.8 | 4270.7 | 3800.3 | 3372.0 | 3057.1 | 2826.1 | 2737.9 | 2767.3 |
| 27.5° | 5736.2  | 5459.1  | 4917.4 | 4543.6 | 4039.7 | 3401.4 | 2939.5 | 2645.5 | 2511.2 | 2469.2 | 2465.0 |
| 30°   | 6063.8  | 5627.0  | 5030.7 | 4468.0 | 3653.4 | 2973.1 | 2544.8 | 2364.2 | 2234.0 | 2196.2 | 2204.6 |
| 32.5° | 6550.9  | 5933.6  | 5177.7 | 4270.7 | 3258.6 | 2591.0 | 2288.6 | 2154.2 | 2032.5 | 1961.1 | 1952.7 |
| 35°   | 6958.2  | 6458.5  | 5333.1 | 3964.1 | 2800.9 | 2297.0 | 2108.0 | 1940.1 | 1755.3 | 1675.5 | 1654.5 |
| 37.5° | 7735.1  | 7050.6  | 5299.5 | 3502.2 | 2364.2 | 2078.6 | 1914.9 | 1709.1 | 1549.5 | 1440.4 | 1427.8 |
| 40°   | 8768.1  | 7743.5  | 5135.7 | 2939.5 | 2040.8 | 1885.5 | 1709.1 | 1511.7 | 1314.4 | 1222.0 | 1213.6 |
| 42.5° | 10023.7 | 8591.7  | 4837.6 | 2368.4 | 1717.5 | 1692.3 | 1532.7 | 1306.0 | 1129.6 | 1062.4 | 1066.6 |
| 45°   | 11044.1 | 9318.2  | 4535.2 | 1902.3 | 1478.1 | 1503.3 | 1364.8 | 1150.6 | 1028.8 | 974.2  | 974.2  |
| 47.5° | 11951.1 | 9809.5  | 4207.7 | 1570.5 | 1255.6 | 1314.4 | 1192.6 | 1066.6 | 961.6  | 919.6  | 911.2  |
| 50°   | 12824.6 | 10309.2 | 3880.1 | 1272.4 | 1070.8 | 1129.6 | 1117.0 | 1016.2 | 932.2  | 881.8  | 886.0  |
| 52.5° | 13370.5 | 10389.0 | 3464.4 | 1041.4 | 936.4  | 1003.6 | 1045.6 | 953.2  | 860.9  | 831.5  | 823.1  |
| 55°   | 12702.8 | 9360.2  | 2687.5 | 856.7  | 793.7  | 881.8  | 961.6  | 856.7  | 785.3  | 734.9  | 730.7  |
| 56°   | 11804.2 | 8369.2  | 2246.6 | 789.5  | 751.7  | 848.3  | 932.2  | 818.9  | 739.1  | 709.7  | 688.7  |
| 57.5° | 9994.3  | 6849.0  | 1658.7 | 701.3  | 697.1  | 789.5  | 886.0  | 781.1  | 688.7  | 663.5  | 663.5  |
| 60°   | 6231.7  | 3854.9  | 1003.6 | 587.9  | 604.7  | 701.3  | 797.9  | 697.1  | 613.1  | 613.1  | 625.7  |
| 62.5° | 2838.7  | 1604.1  | 608.9  | 499.7  | 520.7  | 604.7  | 709.7  | 629.9  | 583.7  | 629.9  | 638.3  |
| 65°   | 965.8   | 692.9   | 440.9  | 398.9  | 411.5  | 499.7  | 608.9  | 638.3  | 634.1  | 663.5  | 680.3  |
| 67.5° | 541.7   | 445.1   | 369.5  | 331.7  | 323.3  | 369.5  | 499.7  | 638.3  | 613.1  | 600.5  | 608.9  |
| 70°   | 457.7   | 377.9   | 327.5  | 293.9  | 281.4  | 298.1  | 386.3  | 482.9  | 432.5  | 419.9  | 411.5  |
| 72.5° | 369.5   | 314.9   | 285.6  | 264.6  | 226.8  | 193.2  | 176.4  | 184.8  | 205.8  | 218.4  | 239.4  |
| 75°   | 260.4   | 239.4   | 239.4  | 214.2  | 163.8  | 121.8  | 96.6   | 79.8   | 54.6   | 37.8   | 42.0   |
| 77.5° | 147.0   | 147.0   | 151.2  | 130.2  | 105.0  | 79.8   | 58.8   | 42.0   | 21.0   | 8.4    | 4.2    |
| 80°   | 100.8   | 109.2   | 117.6  | 105.0  | 88.2   | 71.4   | 50.4   | 29.4   | 12.6   | 0.0    | 0.0    |
| 82.5° | 100.8   | 113.4   | 121.8  | 105.0  | 88.2   | 67.2   | 50.4   | 29.4   | 12.6   | 4.2    | 0.0    |
| 85°   | 21.0    | 25.2    | 29.4   | 33.6   | 50.4   | 50.4   | 37.8   | 25.2   | 12.6   | 4.2    | 0.0    |
| 87.5° | 4.2     | 4.2     | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 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)