

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: P530779

Luminaire Tested: **GALN-SA6A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14745 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

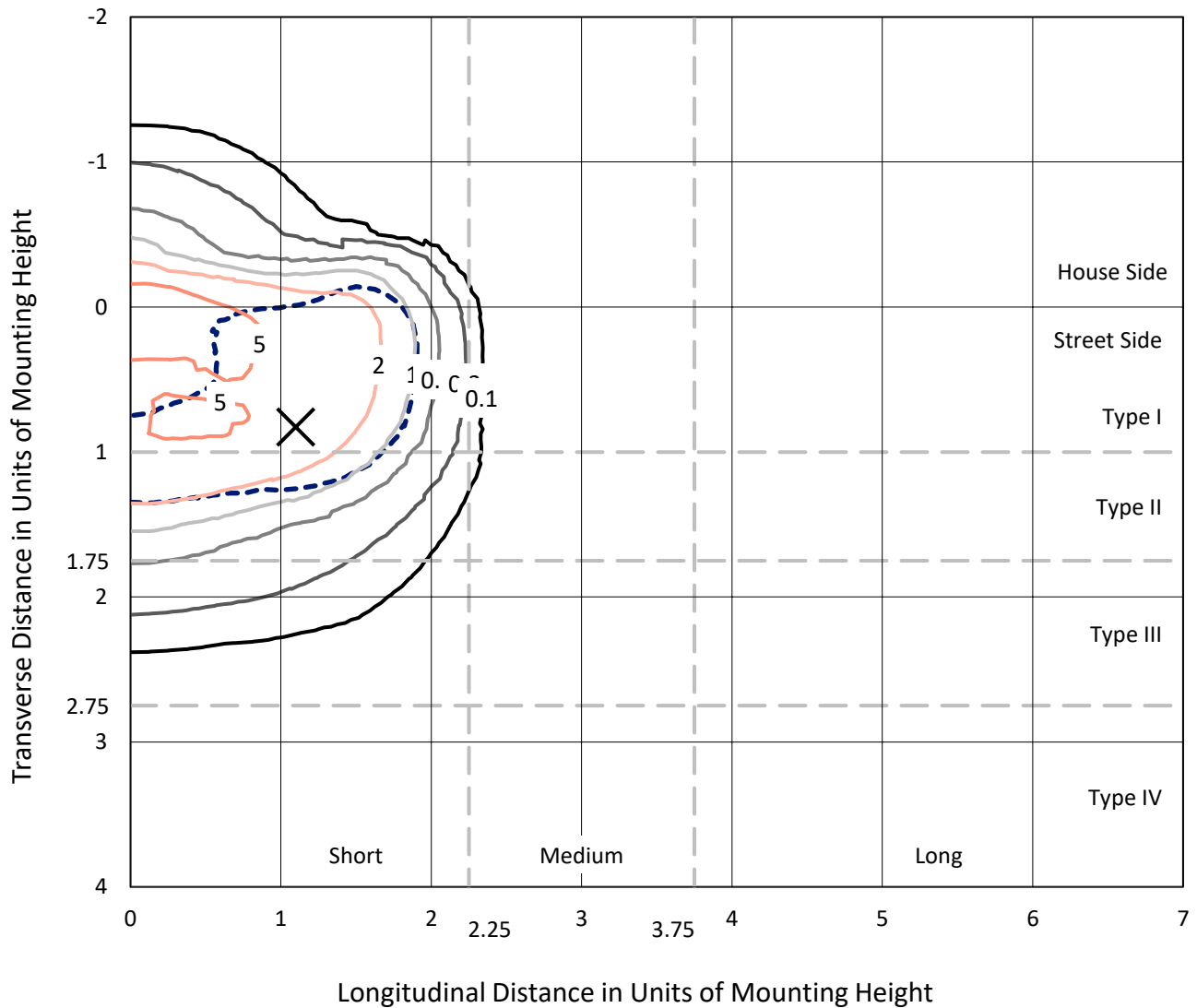
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

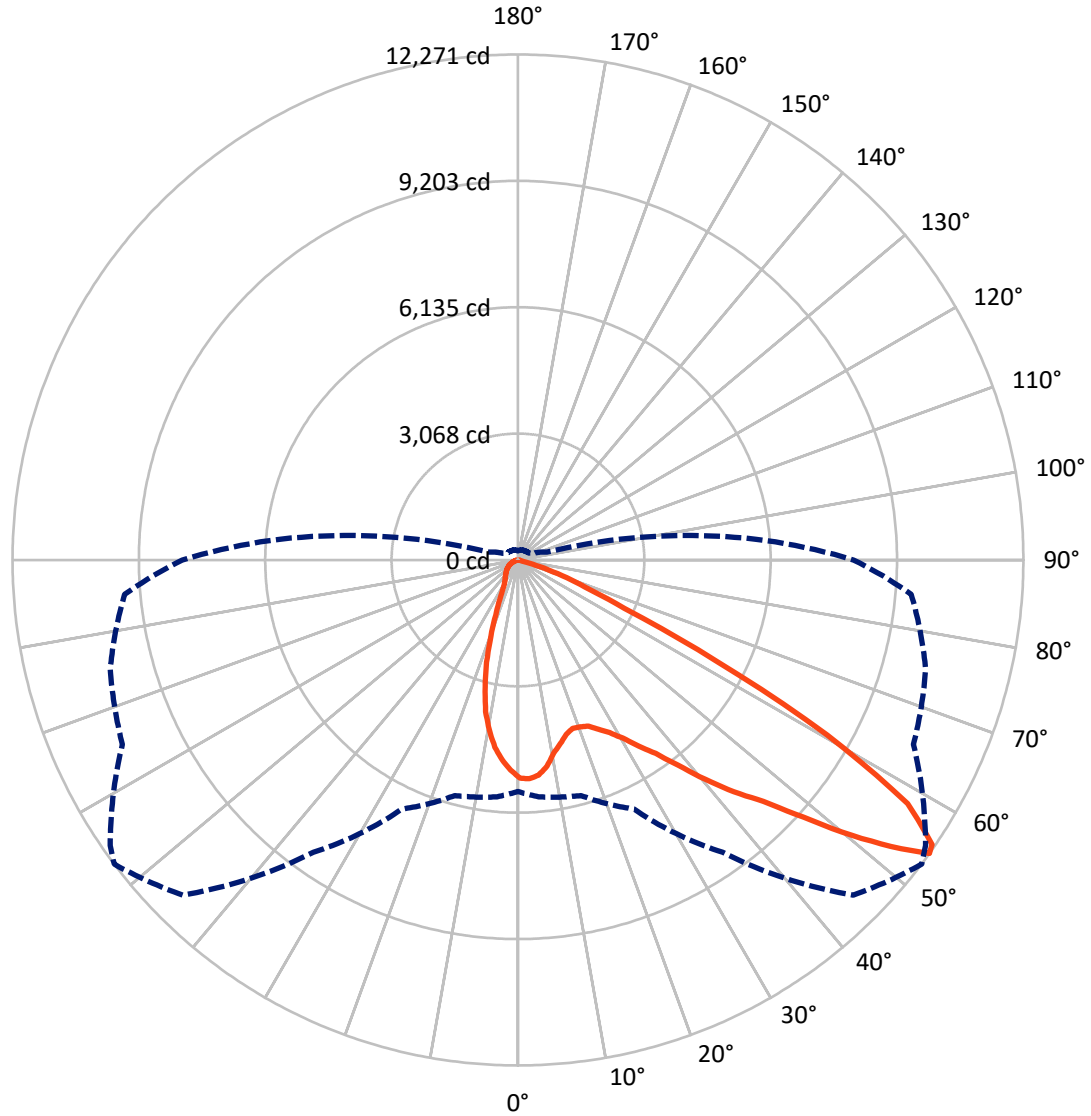
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2439.6   | 0.0    | 2439.6  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 12305.4  | 0.0    | 12305.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 14745.0  | 0.0    | 14745.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 454.4   | 3.1       |
| 10°-20°   | 1041.8  | 7.1       |
| 20°-30°   | 1480.6  | 10.0      |
| 30°-40°   | 2285.0  | 15.5      |
| 40°-50°   | 3582.6  | 24.3      |
| 50°-60°   | 4161.7  | 28.2      |
| 60°-70°   | 1572.5  | 10.7      |
| 70°-80°   | 149.5   | 1.0       |
| 80°-90°   | 16.8    | 0.1       |
| 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°    | 14745.0 | 100.0     |
| 0°-180°   | 14745.0 | 100.0     |

**Coefficient of Utilization**

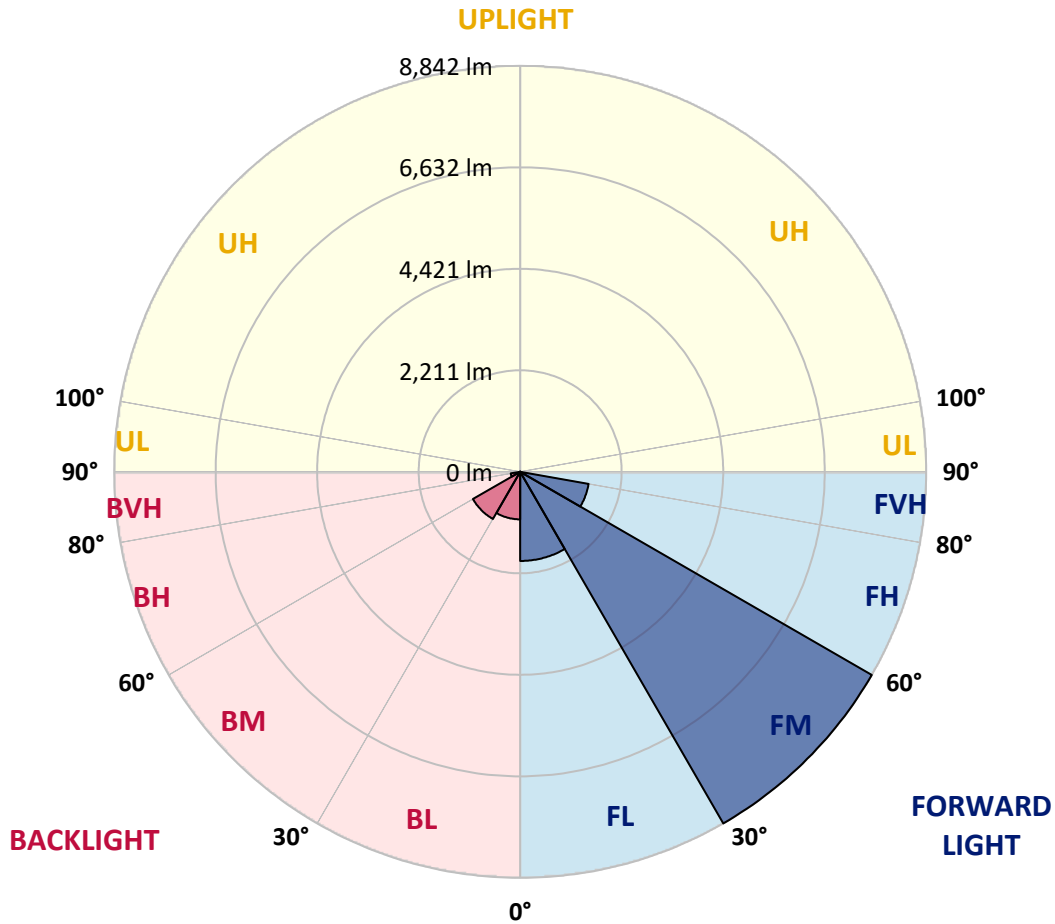


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1941.5 | 13.2      |                         |      |         |
| FM (30°-60°)   | 8842.1 | 60.0      |                         |      |         |
| FH (60°-80°)   | 1513.1 | 10.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 8.7    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 1035.3 | 7.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1187.2 | 8.1       | B2/2500                 |      |         |
| BH (60°-80°)   | 209.0  | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 8.1    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2  | 5296.2  | 5296.2  | 5296.2  | 5296.2  | 5296.2  | 5296.2  |
| 2.5°  | 5268.7 | 5222.0 | 5268.7 | 5274.2 | 5307.1  | 5337.4  | 5318.1  | 5362.1  | 5337.4  | 5309.9  | 5301.6  |
| 5°    | 4842.9 | 4906.1 | 4908.8 | 5007.7 | 4985.7  | 5167.0  | 5246.7  | 5224.7  | 5359.3  | 5351.1  | 5331.9  |
| 7.5°  | 4461.1 | 4436.4 | 4469.3 | 4584.7 | 4730.3  | 4939.0  | 5054.4  | 5051.7  | 5244.0  | 5381.3  | 5367.6  |
| 10°   | 4106.7 | 4104.0 | 4172.6 | 4263.3 | 4386.9  | 4606.7  | 4766.0  | 4845.7  | 5145.1  | 5353.8  | 5384.1  |
| 12.5° | 3867.7 | 3856.7 | 3930.9 | 4005.1 | 4200.1  | 4370.4  | 4573.7  | 4612.2  | 4955.5  | 5257.7  | 5307.1  |
| 15°   | 3711.2 | 3735.9 | 3741.4 | 3884.2 | 4007.8  | 4233.1  | 4392.4  | 4472.1  | 4867.6  | 5180.8  | 5370.3  |
| 17.5° | 3683.7 | 3716.6 | 3719.4 | 3837.5 | 3969.4  | 4158.9  | 4299.0  | 4406.1  | 4793.5  | 5219.2  | 5373.1  |
| 20°   | 3738.6 | 3719.4 | 3735.9 | 3810.0 | 3939.2  | 4120.5  | 4323.7  | 4359.4  | 4768.7  | 5238.5  | 5403.3  |
| 22.5° | 3895.2 | 3889.7 | 3848.5 | 3908.9 | 3999.6  | 4189.1  | 4381.4  | 4436.4  | 4840.2  | 5337.4  | 5428.0  |
| 25°   | 4068.3 | 4098.5 | 4060.0 | 4051.8 | 4115.0  | 4301.8  | 4557.2  | 4628.6  | 5079.1  | 5515.9  | 5504.9  |
| 27.5° | 4392.4 | 4362.2 | 4362.2 | 4323.7 | 4307.2  | 4397.9  | 4746.8  | 4864.9  | 5345.6  | 5746.7  | 5592.8  |
| 30°   | 4702.8 | 4735.8 | 4711.1 | 4724.8 | 4614.9  | 4606.7  | 5016.0  | 5161.6  | 5818.1  | 6098.3  | 5779.6  |
| 32.5° | 5194.5 | 5150.6 | 5191.8 | 5156.1 | 5010.5  | 4862.1  | 5381.3  | 5532.4  | 6389.4  | 6502.1  | 6059.8  |
| 35°   | 5603.8 | 5584.6 | 5760.4 | 5754.9 | 5518.7  | 5373.1  | 5768.6  | 5993.9  | 6787.8  | 6985.5  | 6389.4  |
| 37.5° | 6186.2 | 6150.5 | 6351.0 | 6447.1 | 6235.6  | 6018.6  | 6323.5  | 6584.5  | 7158.6  | 7372.9  | 6727.3  |
| 40°   | 6785.0 | 6875.7 | 7144.9 | 7304.2 | 7078.9  | 6790.5  | 7002.0  | 7081.7  | 7405.8  | 7625.6  | 6958.1  |
| 42.5° | 7543.2 | 7675.0 | 7949.7 | 8087.1 | 8067.8  | 7754.7  | 7691.5  | 7688.8  | 7584.4  | 7554.2  | 7128.4  |
| 45°   | 8271.1 | 8221.7 | 8644.7 | 8944.1 | 9185.9  | 9095.2  | 8356.3  | 8273.9  | 7867.3  | 7661.3  | 7172.3  |
| 47.5° | 8589.8 | 8573.3 | 8861.7 | 9394.6 | 10218.7 | 10331.3 | 9323.2  | 9004.6  | 8345.3  | 8111.8  | 7411.3  |
| 50°   | 8177.7 | 8262.9 | 8548.6 | 9139.2 | 10402.8 | 11262.6 | 10509.9 | 10081.4 | 8902.9  | 8661.2  | 7977.2  |
| 52.5° | 6831.7 | 6889.4 | 7161.3 | 7911.3 | 9776.5  | 11812.0 | 11647.1 | 11399.9 | 9927.5  | 9526.5  | 8963.4  |
| 54°   | 5617.6 | 5771.4 | 5919.7 | 6672.4 | 8661.2  | 11507.1 | 12270.7 | 12081.2 | 10595.1 | 10246.2 | 9584.2  |
| 55°   | 4892.4 | 4983.0 | 5090.1 | 5840.1 | 7889.3  | 10990.6 | 12199.3 | 12215.8 | 11042.8 | 10471.4 | 10001.7 |
| 57.5° | 3573.8 | 3637.0 | 3527.1 | 3859.5 | 5417.0  | 8924.9  | 11158.2 | 11603.2 | 11647.1 | 10809.3 | 10257.2 |
| 60°   | 2730.5 | 2758.0 | 2634.3 | 2686.5 | 3367.8  | 6125.7  | 8631.0  | 9166.6  | 10507.2 | 9446.8  | 8688.7  |
| 62.5° | 2117.9 | 2123.4 | 2120.7 | 2211.3 | 2321.2  | 3604.0  | 5397.8  | 5873.0  | 7243.8  | 6708.1  | 5900.5  |
| 65°   | 1560.3 | 1535.6 | 1579.5 | 1854.2 | 1980.6  | 2266.2  | 2843.1  | 3189.2  | 3936.4  | 3323.8  | 2376.1  |
| 67.5° | 1010.9 | 1019.1 | 1063.1 | 1379.0 | 1697.6  | 1738.8  | 1749.8  | 1722.3  | 1725.1  | 950.5   | 596.1   |
| 70°   | 607.1  | 620.8  | 607.1  | 780.1  | 1214.2  | 1247.1  | 1140.0  | 1112.5  | 868.0   | 225.3   | 222.5   |
| 72.5° | 359.9  | 340.6  | 304.9  | 335.1  | 505.4   | 604.3   | 543.9   | 541.2   | 340.6   | 131.9   | 131.9   |
| 75°   | 151.1  | 137.3  | 112.6  | 101.6  | 134.6   | 129.1   | 129.1   | 115.4   | 90.6    | 87.9    | 82.4    |
| 77.5° | 30.2   | 30.2   | 22.0   | 24.7   | 33.0    | 38.5    | 46.7    | 46.7    | 54.9    | 54.9    | 52.2    |
| 80°   | 0.0    | 2.7    | 8.2    | 16.5   | 24.7    | 35.7    | 41.2    | 41.2    | 46.7    | 46.7    | 38.5    |
| 82.5° | 0.0    | 2.7    | 8.2    | 16.5   | 22.0    | 33.0    | 41.2    | 41.2    | 46.7    | 49.4    | 41.2    |
| 85°   | 0.0    | 2.7    | 8.2    | 13.7   | 22.0    | 27.5    | 27.5    | 24.7    | 19.2    | 16.5    | 11.0    |
| 87.5° | 0.0    | 0.0    | 2.7    | 5.5    | 2.7     | 5.5     | 5.5     | 5.5     | 5.5     | 5.5     | 5.5     |
| 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°    | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 | 5296.2 |
| 2.5°  | 5320.9 | 5318.1 | 5252.2 | 5145.1 | 5120.3 | 5029.7 | 5018.7 | 4963.8 | 4994.0 | 4892.4 | 4881.4 |
| 5°    | 5276.9 | 5244.0 | 5164.3 | 5095.6 | 4895.1 | 4752.3 | 4639.6 | 4502.3 | 4422.6 | 4436.4 | 4384.2 |
| 7.5°  | 5340.1 | 5255.0 | 5114.9 | 4875.9 | 4631.4 | 4381.4 | 4246.8 | 3966.6 | 3865.0 | 3713.9 | 3691.9 |
| 10°   | 5274.2 | 5211.0 | 4994.0 | 4598.4 | 4260.5 | 3900.7 | 3584.8 | 3274.4 | 3038.1 | 2936.5 | 2914.5 |
| 12.5° | 5268.7 | 5158.8 | 4796.2 | 4356.7 | 3867.7 | 3351.3 | 2892.6 | 2505.2 | 2271.7 | 2139.9 | 2109.7 |
| 15°   | 5183.5 | 5051.7 | 4573.7 | 3983.1 | 3307.4 | 2664.6 | 2164.6 | 1791.0 | 1612.5 | 1535.6 | 1557.5 |
| 17.5° | 5191.8 | 4994.0 | 4351.2 | 3587.5 | 2755.2 | 1955.8 | 1477.9 | 1285.6 | 1238.9 | 1258.1 | 1258.1 |
| 20°   | 5183.5 | 4864.9 | 4082.0 | 3131.5 | 2109.7 | 1357.0 | 1085.1 | 1016.4 | 1046.6 | 1107.0 | 1093.3 |
| 22.5° | 5139.6 | 4804.4 | 3834.8 | 2650.8 | 1552.0 | 1005.4 | 870.8  | 873.5  | 920.2  | 994.4  | 1010.9 |
| 25°   | 5172.5 | 4669.8 | 3521.6 | 2164.6 | 1131.8 | 802.1  | 755.4  | 774.6  | 824.1  | 879.0  | 890.0  |
| 27.5° | 5147.8 | 4573.7 | 3194.7 | 1681.1 | 826.8  | 689.5  | 686.7  | 708.7  | 730.7  | 771.9  | 771.9  |
| 30°   | 5175.3 | 4485.8 | 2873.3 | 1249.9 | 681.2  | 631.8  | 620.8  | 637.3  | 659.3  | 667.5  | 664.8  |
| 32.5° | 5276.9 | 4419.9 | 2502.5 | 934.0  | 601.6  | 576.9  | 576.9  | 576.9  | 574.1  | 585.1  | 587.9  |
| 35°   | 5499.4 | 4430.9 | 2175.6 | 722.5  | 549.4  | 530.2  | 521.9  | 510.9  | 505.4  | 510.9  | 513.7  |
| 37.5° | 5741.2 | 4425.4 | 1837.7 | 615.3  | 510.9  | 494.5  | 475.2  | 458.7  | 456.0  | 461.5  | 453.2  |
| 40°   | 5848.3 | 4477.6 | 1524.6 | 552.1  | 475.2  | 456.0  | 425.8  | 412.0  | 414.8  | 420.3  | 414.8  |
| 42.5° | 5993.9 | 4494.0 | 1321.3 | 502.7  | 442.3  | 412.0  | 392.8  | 376.3  | 373.6  | 381.8  | 379.1  |
| 45°   | 5991.1 | 4400.6 | 1107.0 | 475.2  | 412.0  | 379.1  | 354.4  | 340.6  | 340.6  | 346.1  | 348.9  |
| 47.5° | 6166.9 | 4386.9 | 950.5  | 450.5  | 390.1  | 357.1  | 326.9  | 315.9  | 313.2  | 313.2  | 307.7  |
| 50°   | 6576.2 | 4579.2 | 829.6  | 423.0  | 362.6  | 332.4  | 307.7  | 293.9  | 282.9  | 277.4  | 274.7  |
| 52.5° | 7375.6 | 5178.0 | 736.2  | 390.1  | 332.4  | 307.7  | 285.7  | 274.7  | 261.0  | 247.2  | 244.5  |
| 54°   | 8150.3 | 5796.1 | 730.7  | 362.6  | 307.7  | 291.2  | 271.9  | 266.5  | 250.0  | 230.7  | 225.3  |
| 55°   | 8499.1 | 6156.0 | 749.9  | 340.6  | 291.2  | 280.2  | 263.7  | 258.2  | 241.7  | 219.8  | 217.0  |
| 57.5° | 8787.6 | 6296.1 | 738.9  | 282.9  | 263.7  | 261.0  | 247.2  | 239.0  | 219.8  | 189.5  | 184.0  |
| 60°   | 7073.4 | 4760.5 | 530.2  | 250.0  | 241.7  | 236.2  | 225.3  | 219.8  | 195.0  | 162.1  | 159.3  |
| 62.5° | 4469.3 | 2738.7 | 337.9  | 219.8  | 211.5  | 203.3  | 189.5  | 184.0  | 162.1  | 129.1  | 120.9  |
| 65°   | 1903.6 | 1134.5 | 228.0  | 195.0  | 181.3  | 167.6  | 156.6  | 148.3  | 129.1  | 96.1   | 93.4   |
| 67.5° | 494.5  | 403.8  | 189.5  | 170.3  | 151.1  | 131.9  | 123.6  | 109.9  | 87.9   | 65.9   | 63.2   |
| 70°   | 222.5  | 203.3  | 159.3  | 142.8  | 120.9  | 101.6  | 90.6   | 76.9   | 57.7   | 44.0   | 41.2   |
| 72.5° | 131.9  | 129.1  | 120.9  | 107.1  | 90.6   | 76.9   | 65.9   | 52.2   | 38.5   | 24.7   | 24.7   |
| 75°   | 82.4   | 79.7   | 82.4   | 74.2   | 63.2   | 57.7   | 49.4   | 35.7   | 22.0   | 11.0   | 11.0   |
| 77.5° | 49.4   | 49.4   | 49.4   | 46.7   | 44.0   | 44.0   | 35.7   | 22.0   | 11.0   | 2.7    | 2.7    |
| 80°   | 38.5   | 38.5   | 41.2   | 38.5   | 38.5   | 38.5   | 30.2   | 16.5   | 5.5    | 0.0    | 0.0    |
| 82.5° | 38.5   | 41.2   | 46.7   | 44.0   | 38.5   | 33.0   | 27.5   | 16.5   | 5.5    | 0.0    | 0.0    |
| 85°   | 11.0   | 8.2    | 13.7   | 19.2   | 27.5   | 24.7   | 19.2   | 13.7   | 5.5    | 0.0    | 0.0    |
| 87.5° | 5.5    | 5.5    | 5.5    | 5.5    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 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)