

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637868

Luminaire Tested: GWS-SA4D-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

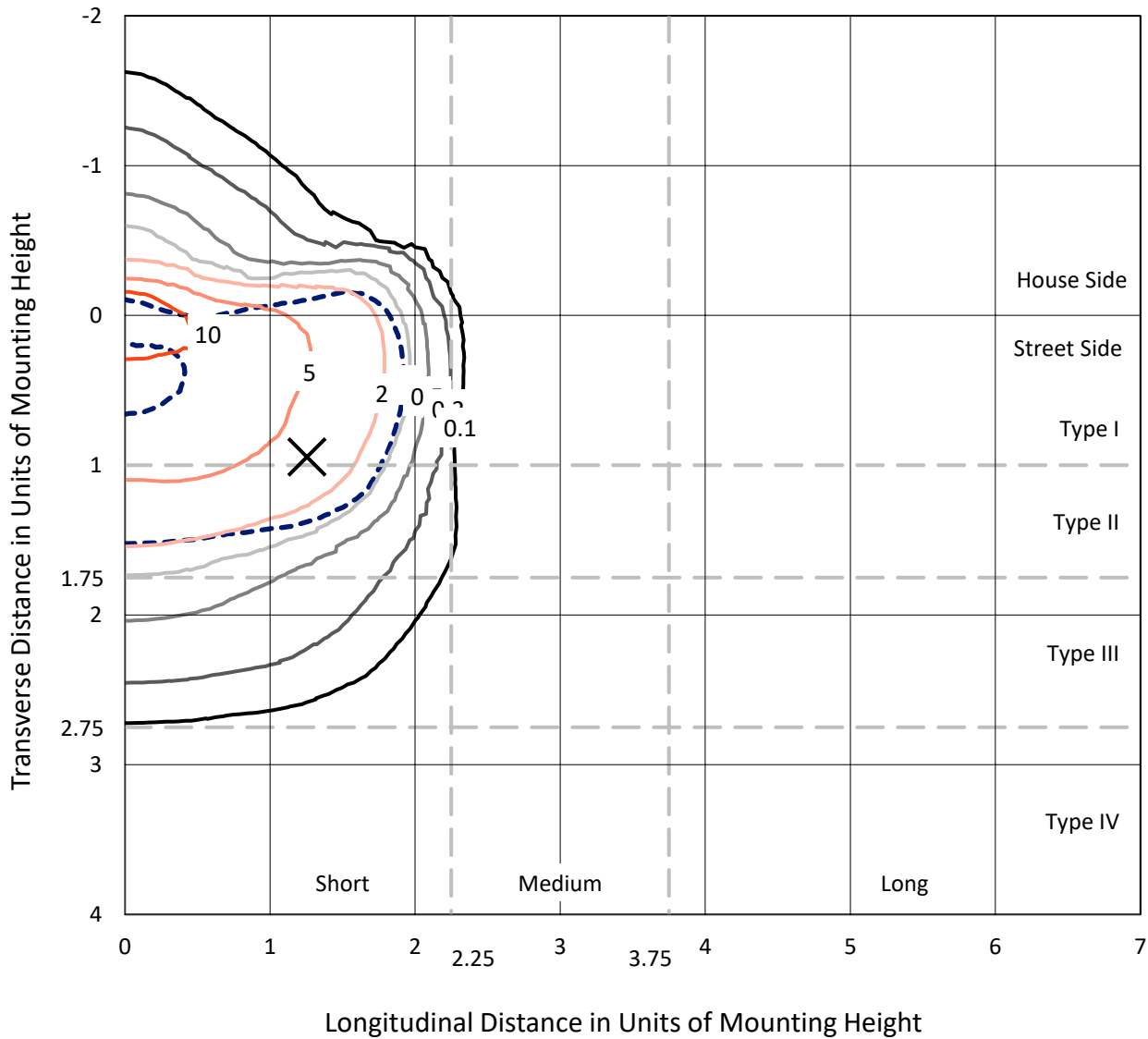
Lumens per Lamp: N/A  
Luminaire Lumens: 14450.9 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

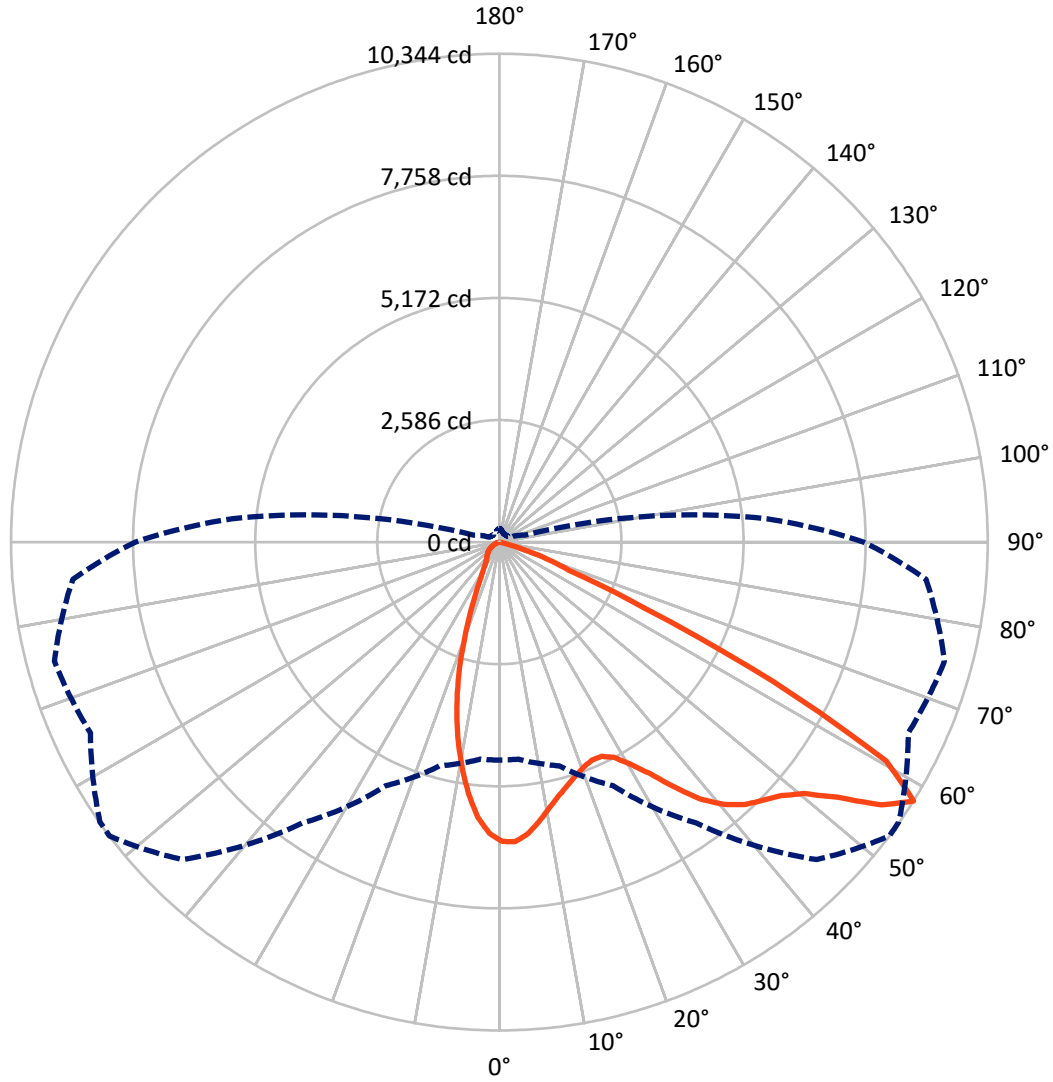
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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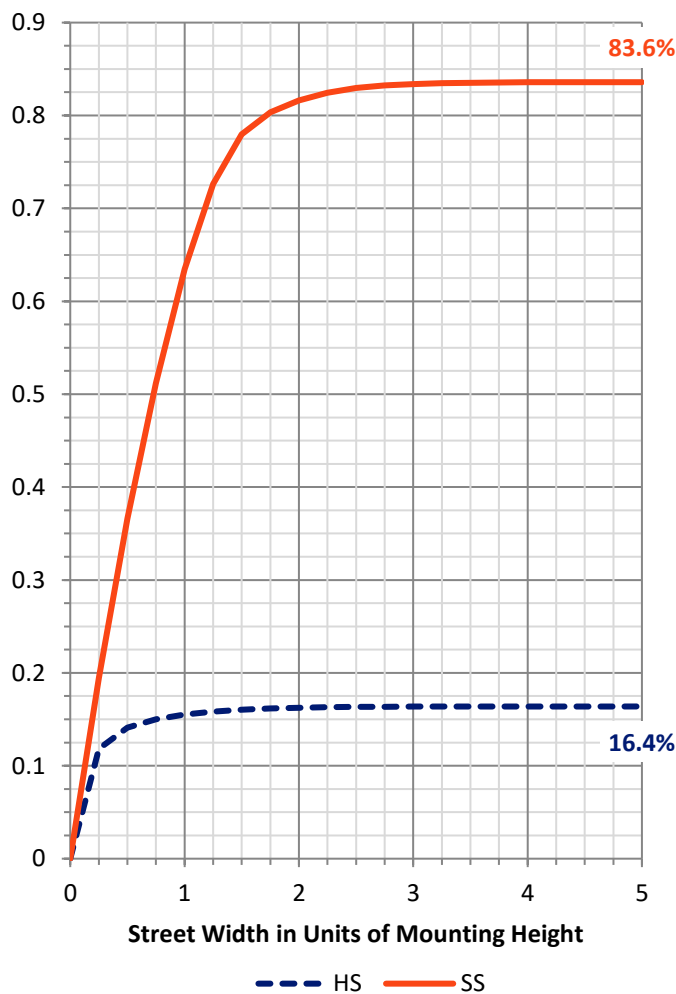
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2387.1   | 0.0    | 2387.1  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 12063.8  | 0.0    | 12063.8 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 14450.9  | 0.0    | 14450.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 542.4   | 3.8       |
| 10°-20°   | 1190.7  | 8.2       |
| 20°-30°   | 1551.1  | 10.7      |
| 30°-40°   | 2249.9  | 15.6      |
| 40°-50°   | 3246.5  | 22.5      |
| 50°-60°   | 3926.3  | 27.2      |
| 60°-70°   | 1600.2  | 11.1      |
| 70°-80°   | 143.8   | 1.0       |
| 80°-90°   | 0.0     | 0.0       |
| 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°    | 14450.9 | 100.0     |
| 0°-180°   | 14450.9 | 100.0     |

**Coefficient of Utilization**



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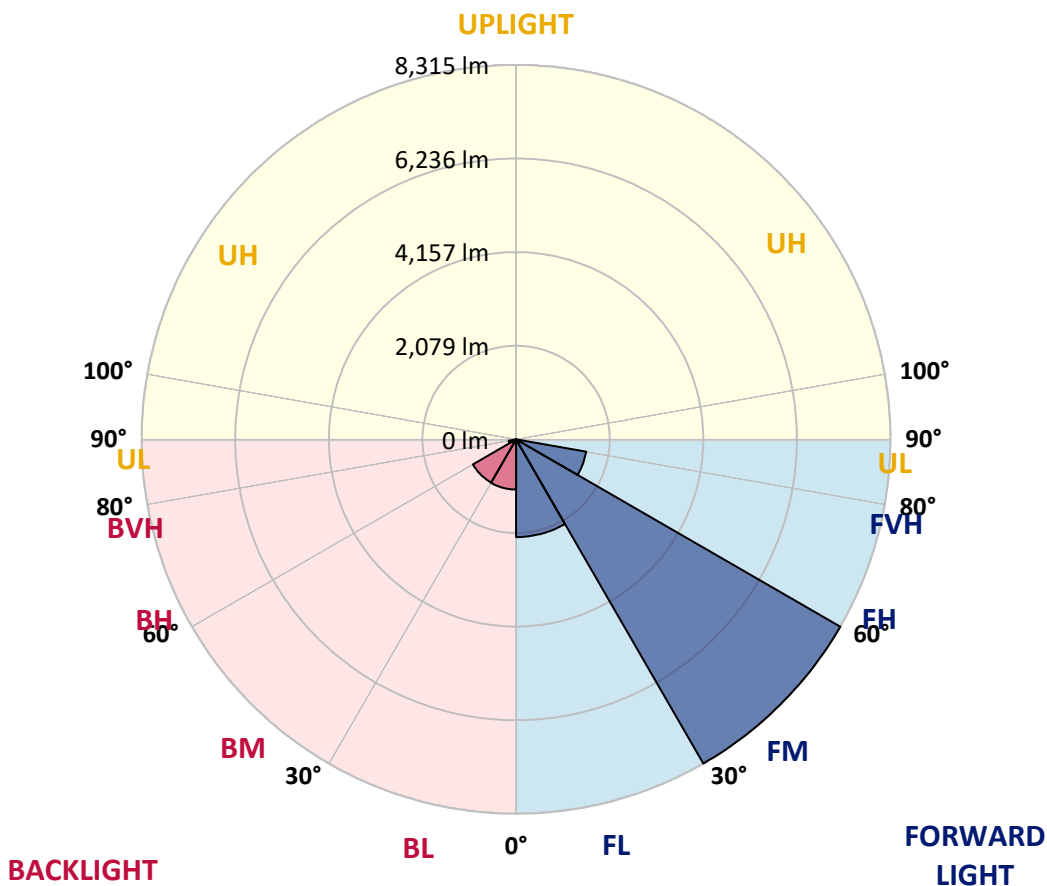
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2170.0 | 15.0      |                         |      |         |
| FM (30°-60°)   | 8314.8 | 57.5      |                         |      |         |
| FH (60°-80°)   | 1579.0 | 10.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 1114.1 | 7.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 1108.0 | 7.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 165.0  | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 0.0    | 0.0       |                         |      | 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°    | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0  | 6339.0  | 6339.0 | 6339.0 | 6339.0 |
| 2.5°  | 6250.4 | 6264.6 | 6289.4 | 6321.3 | 6342.5 | 6353.2 | 6353.2  | 6383.3  | 6363.8 | 6347.8 | 6330.1 |
| 5°    | 5983.0 | 5997.2 | 6030.8 | 6082.2 | 6133.5 | 6170.7 | 6213.2  | 6245.1  | 6257.5 | 6257.5 | 6227.4 |
| 7.5°  | 5605.7 | 5625.2 | 5646.5 | 5717.3 | 5828.9 | 5912.1 | 5984.8  | 6030.8  | 6098.1 | 6119.4 | 6076.9 |
| 10°   | 5200.1 | 5219.6 | 5267.4 | 5364.8 | 5492.4 | 5616.4 | 5740.3  | 5798.8  | 5913.9 | 5974.1 | 5926.3 |
| 12.5° | 4856.5 | 4865.4 | 4929.1 | 5046.0 | 5209.0 | 5379.0 | 5529.6  | 5589.8  | 5752.7 | 5843.1 | 5786.4 |
| 15°   | 4573.1 | 4578.5 | 4642.2 | 4771.5 | 4959.3 | 5168.3 | 5357.8  | 5419.8  | 5619.9 | 5756.3 | 5671.3 |
| 17.5° | 4358.8 | 4360.6 | 4415.5 | 4555.4 | 4752.0 | 4984.0 | 5209.0  | 5285.1  | 5543.7 | 5708.5 | 5580.9 |
| 20°   | 4250.8 | 4245.5 | 4284.4 | 4406.7 | 4592.6 | 4824.6 | 5090.3  | 5184.2  | 5501.2 | 5701.4 | 5511.9 |
| 22.5° | 4252.6 | 4240.2 | 4256.1 | 4342.9 | 4500.5 | 4718.4 | 5015.9  | 5122.2  | 5504.8 | 5731.5 | 5453.4 |
| 25°   | 4353.5 | 4335.8 | 4339.3 | 4385.4 | 4497.0 | 4695.4 | 5026.6  | 5139.9  | 5575.6 | 5832.4 | 5432.2 |
| 27.5° | 4523.5 | 4504.1 | 4504.1 | 4527.1 | 4587.3 | 4768.0 | 5159.4  | 5288.7  | 5765.1 | 6029.0 | 5476.4 |
| 30°   | 4743.2 | 4723.7 | 4716.6 | 4739.6 | 4789.2 | 4955.7 | 5455.2  | 5589.8  | 6089.3 | 6351.4 | 5618.1 |
| 32.5° | 4994.7 | 4971.7 | 4984.0 | 5015.9 | 5063.8 | 5294.0 | 5836.0  | 6014.9  | 6494.9 | 6785.3 | 5873.2 |
| 35°   | 5260.4 | 5240.9 | 5297.5 | 5366.6 | 5441.0 | 5763.4 | 6362.0  | 6517.9  | 6992.5 | 7325.5 | 6262.8 |
| 37.5° | 5513.6 | 5504.8 | 5623.4 | 5768.7 | 5922.8 | 6326.6 | 6896.9  | 7017.3  | 7419.4 | 7913.6 | 6739.3 |
| 40°   | 5766.9 | 5765.1 | 5968.8 | 6223.9 | 6470.1 | 6888.0 | 7302.5  | 7401.7  | 7679.8 | 8370.5 | 7196.2 |
| 42.5° | 6050.3 | 6050.3 | 6331.9 | 6672.0 | 6999.6 | 7362.7 | 7600.1  | 7644.3  | 7796.7 | 8634.4 | 7539.8 |
| 45°   | 6321.3 | 6337.2 | 6663.1 | 7058.1 | 7446.0 | 7732.9 | 7805.5  | 7809.1  | 7844.5 | 8790.3 | 7825.0 |
| 47.5° | 6535.6 | 6549.8 | 6939.4 | 7394.6 | 7812.6 | 8014.5 | 8025.1  | 8009.2  | 7970.2 | 8939.1 | 8044.6 |
| 50°   | 6709.2 | 6730.4 | 7137.8 | 7619.5 | 8064.1 | 8285.5 | 8367.0  | 8351.0  | 8251.8 | 9098.5 | 8198.7 |
| 52.5° | 6794.2 | 6824.3 | 7206.9 | 7731.1 | 8343.9 | 8749.5 | 8976.2  | 9013.4  | 8673.4 | 9187.0 | 8345.7 |
| 55°   | 6114.1 | 6158.3 | 6510.8 | 7228.1 | 8499.8 | 9466.9 | 9822.9  | 9815.8  | 9130.3 | 9450.9 | 8703.5 |
| 57.5° | 4617.4 | 4613.9 | 4906.1 | 5690.7 | 7260.0 | 9507.6 | 10343.6 | 10329.4 | 9557.2 | 9757.3 | 9070.1 |
| 60°   | 3143.8 | 3122.6 | 3200.5 | 3579.5 | 5076.2 | 7745.3 | 9413.7  | 9605.0  | 9254.3 | 9013.4 | 7701.0 |
| 62.5° | 2587.7 | 2568.2 | 2543.4 | 2438.9 | 2915.3 | 4824.6 | 6503.7  | 6794.2  | 6748.1 | 6264.6 | 4830.0 |
| 65°   | 2118.3 | 2134.3 | 2203.3 | 2159.0 | 2028.0 | 2474.3 | 3375.8  | 3547.6  | 3243.0 | 2729.4 | 1687.9 |
| 67.5° | 1562.2 | 1569.2 | 1659.6 | 1893.4 | 1822.5 | 1647.2 | 1588.7  | 1617.1  | 947.6  | 435.7  | 281.6  |
| 70°   | 922.8  | 928.1  | 1011.3 | 1324.8 | 1478.9 | 1264.6 | 1073.3  | 1057.4  | 375.5  | 116.9  | 127.5  |
| 72.5° | 522.5  | 511.9  | 527.8  | 630.5  | 805.9  | 671.3  | 552.6   | 503.0   | 113.4  | 65.5   | 65.5   |
| 75°   | 248.0  | 240.9  | 207.2  | 194.8  | 177.1  | 113.4  | 70.8    | 60.2    | 28.3   | 26.6   | 26.6   |
| 77.5° | 1.8    | 5.3    | 3.5    | 5.3    | 5.3    | 3.5    | 1.8     | 1.8     | 5.3    | 5.3    | 7.1    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0    | 0.0    | 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    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 | 6339.0 |
| 2.5°  | 6298.3 | 6245.1 | 6232.7 | 6229.2 | 6179.6 | 6126.4 | 6071.5 | 6050.3 | 6018.4 | 5998.9 | 6014.9 |
| 5°    | 6179.6 | 6103.4 | 6036.1 | 5974.1 | 5864.3 | 5743.9 | 5639.4 | 5572.1 | 5508.3 | 5465.8 | 5476.4 |
| 7.5°  | 6011.3 | 5912.1 | 5758.0 | 5600.4 | 5398.5 | 5217.8 | 5015.9 | 4891.9 | 4776.8 | 4713.1 | 4743.2 |
| 10°   | 5832.4 | 5701.4 | 5455.2 | 5187.7 | 4870.7 | 4587.3 | 4298.6 | 4063.0 | 3926.7 | 3797.4 | 3811.5 |
| 12.5° | 5657.1 | 5483.5 | 5115.1 | 4709.5 | 4309.2 | 3891.2 | 3455.5 | 3129.6 | 2906.5 | 2745.3 | 2720.5 |
| 15°   | 5494.1 | 5271.0 | 4783.9 | 4249.0 | 3703.5 | 3147.4 | 2591.2 | 2125.4 | 1866.8 | 1707.4 | 1696.8 |
| 17.5° | 5348.9 | 5072.6 | 4440.3 | 3767.3 | 3083.6 | 2371.6 | 1732.2 | 1383.3 | 1234.5 | 1165.4 | 1158.3 |
| 20°   | 5209.0 | 4872.5 | 4089.6 | 3278.4 | 2407.0 | 1664.9 | 1195.5 | 1034.4 | 986.5  | 958.2  | 961.7  |
| 22.5° | 5074.4 | 4654.6 | 3721.2 | 2736.4 | 1804.8 | 1169.0 | 926.3  | 864.3  | 859.0  | 862.6  | 864.3  |
| 25°   | 4961.0 | 4454.5 | 3342.2 | 2214.0 | 1287.6 | 890.9  | 774.0  | 756.3  | 772.2  | 795.3  | 798.8  |
| 27.5° | 4902.6 | 4291.5 | 2972.0 | 1687.9 | 931.6  | 724.4  | 671.3  | 678.4  | 706.7  | 731.5  | 735.0  |
| 30°   | 4918.5 | 4169.3 | 2589.4 | 1223.9 | 717.3  | 611.1  | 593.3  | 607.5  | 635.8  | 658.9  | 662.4  |
| 32.5° | 5031.9 | 4107.3 | 2198.0 | 890.9  | 589.8  | 533.1  | 526.0  | 536.7  | 561.5  | 579.2  | 580.9  |
| 35°   | 5256.8 | 4121.5 | 1826.1 | 681.9  | 506.6  | 474.7  | 472.9  | 480.0  | 492.4  | 504.8  | 506.6  |
| 37.5° | 5588.0 | 4236.6 | 1459.4 | 566.8  | 458.7  | 435.7  | 428.6  | 428.6  | 437.5  | 442.8  | 446.3  |
| 40°   | 5944.0 | 4410.2 | 1169.0 | 501.2  | 425.1  | 400.3  | 386.1  | 380.8  | 387.9  | 395.0  | 396.7  |
| 42.5° | 6238.0 | 4583.8 | 949.3  | 455.2  | 398.5  | 364.9  | 347.1  | 343.6  | 352.5  | 364.9  | 368.4  |
| 45°   | 6463.0 | 4718.4 | 791.7  | 418.0  | 368.4  | 331.2  | 311.7  | 311.7  | 327.7  | 348.9  | 352.5  |
| 47.5° | 6668.4 | 4826.4 | 674.8  | 384.3  | 340.1  | 301.1  | 281.6  | 285.2  | 311.7  | 340.1  | 345.4  |
| 50°   | 6808.3 | 4913.2 | 588.0  | 354.2  | 317.0  | 276.3  | 258.6  | 265.7  | 297.6  | 331.2  | 336.5  |
| 52.5° | 6958.9 | 5019.5 | 531.3  | 327.7  | 295.8  | 256.8  | 240.9  | 246.2  | 281.6  | 318.8  | 325.9  |
| 55°   | 7375.1 | 5375.5 | 529.6  | 292.2  | 258.6  | 230.3  | 223.2  | 224.9  | 260.4  | 302.9  | 311.7  |
| 57.5° | 7715.2 | 5689.0 | 565.0  | 246.2  | 216.1  | 201.9  | 198.4  | 200.1  | 232.0  | 279.8  | 290.5  |
| 60°   | 6383.3 | 4420.8 | 467.6  | 203.7  | 180.7  | 177.1  | 171.8  | 175.3  | 205.5  | 248.0  | 256.8  |
| 62.5° | 3777.9 | 2527.4 | 223.2  | 155.9  | 154.1  | 150.5  | 145.2  | 152.3  | 180.7  | 217.9  | 223.2  |
| 65°   | 1291.2 | 749.2  | 141.7  | 127.5  | 131.1  | 125.8  | 120.4  | 127.5  | 152.3  | 173.6  | 175.3  |
| 67.5° | 248.0  | 198.4  | 113.4  | 106.3  | 108.0  | 97.4   | 95.6   | 102.7  | 116.9  | 120.4  | 118.7  |
| 70°   | 129.3  | 115.1  | 86.8   | 86.8   | 83.2   | 69.1   | 69.1   | 76.2   | 76.2   | 70.8   | 69.1   |
| 72.5° | 67.3   | 63.8   | 56.7   | 63.8   | 53.1   | 42.5   | 42.5   | 46.1   | 42.5   | 35.4   | 35.4   |
| 75°   | 26.6   | 26.6   | 24.8   | 31.9   | 23.0   | 19.5   | 17.7   | 21.3   | 15.9   | 12.4   | 12.4   |
| 77.5° | 7.1    | 7.1    | 7.1    | 8.9    | 5.3    | 5.3    | 3.5    | 3.5    | 1.8    | 0.0    | 0.0    |
| 80°   | 0.0    | 1.8    | 0.0    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    | 0.0    |

(END OF REPORT)