

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: P528675

Luminaire Tested: **GALN-SA3D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12581 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

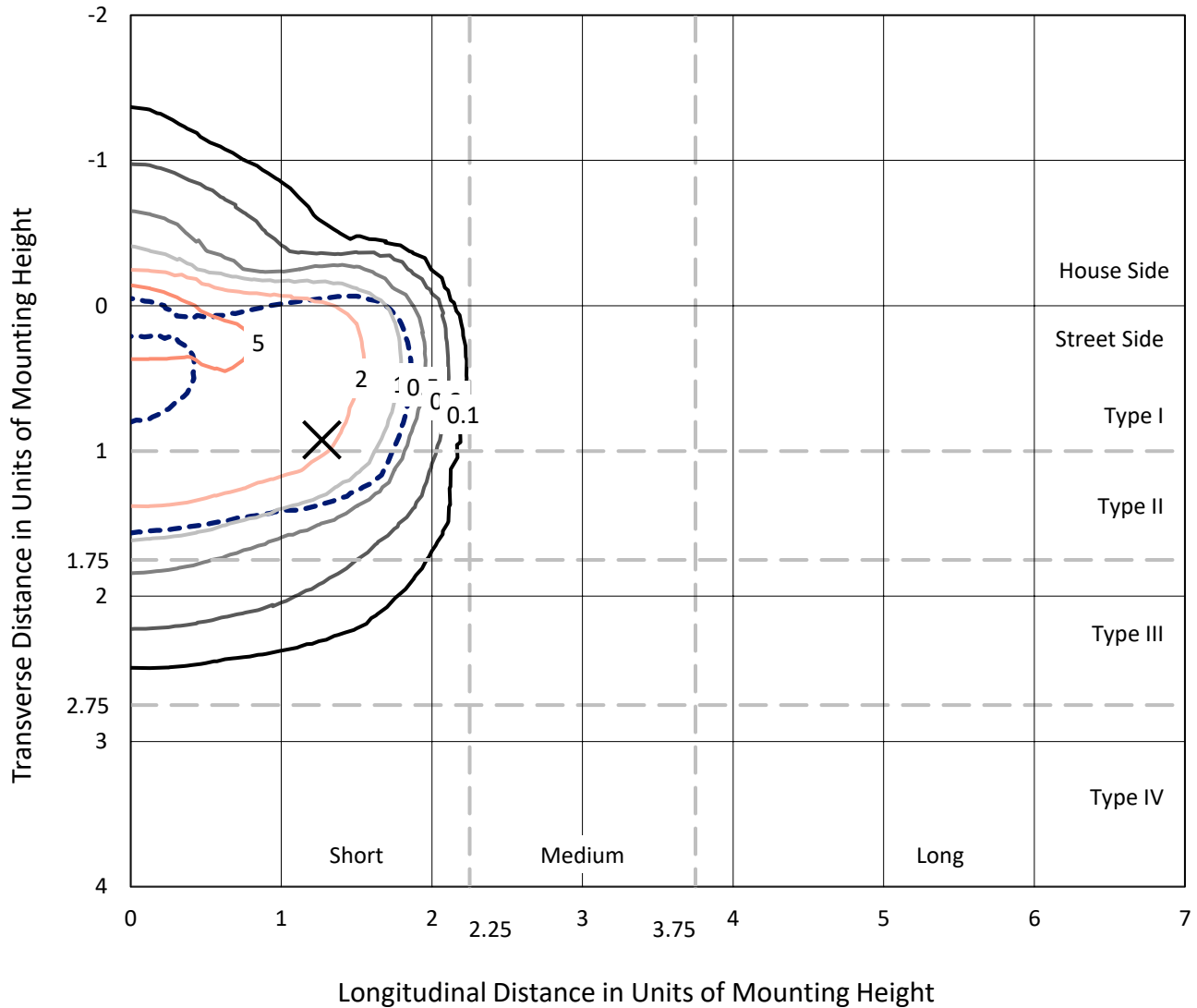
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

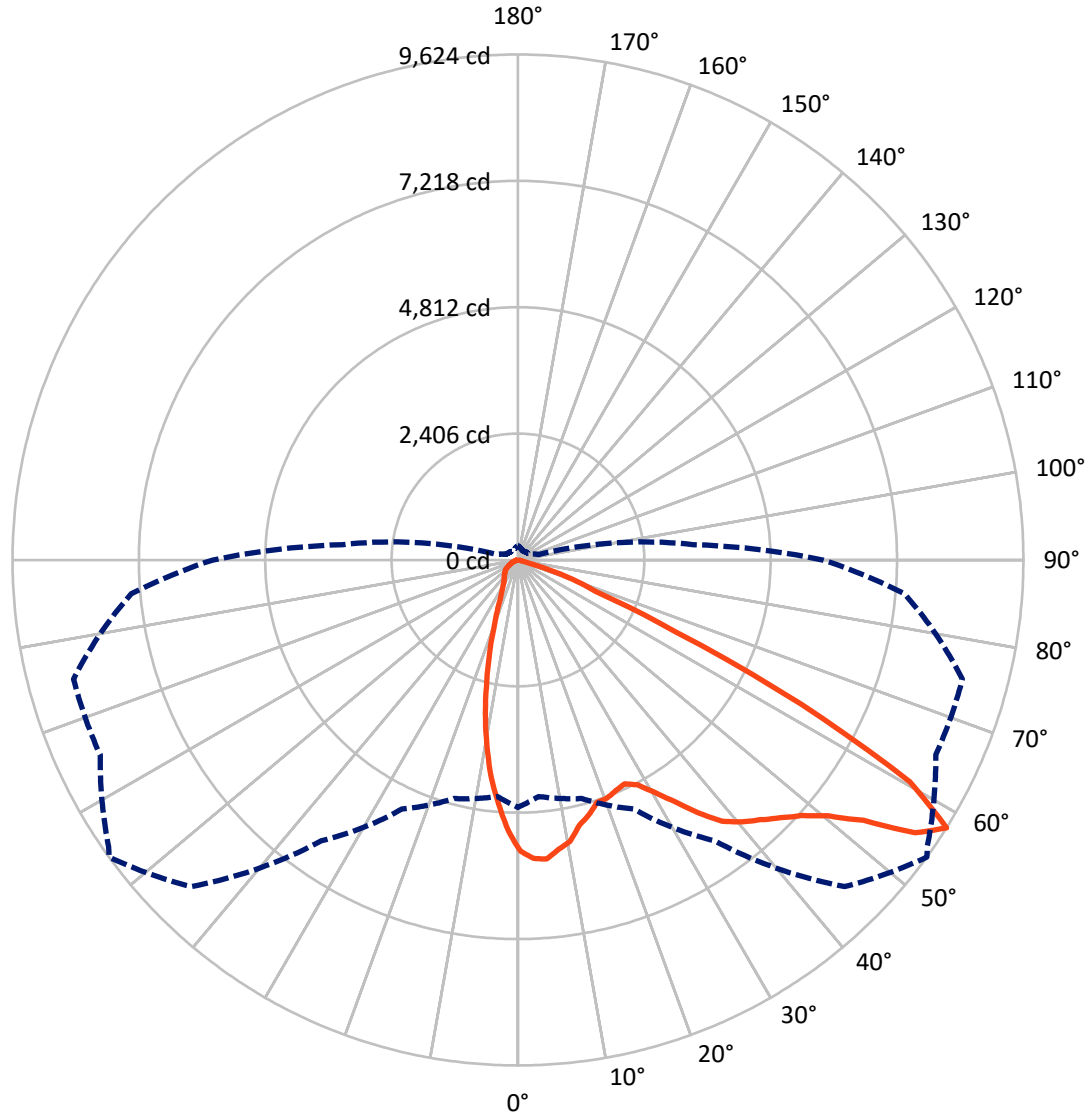
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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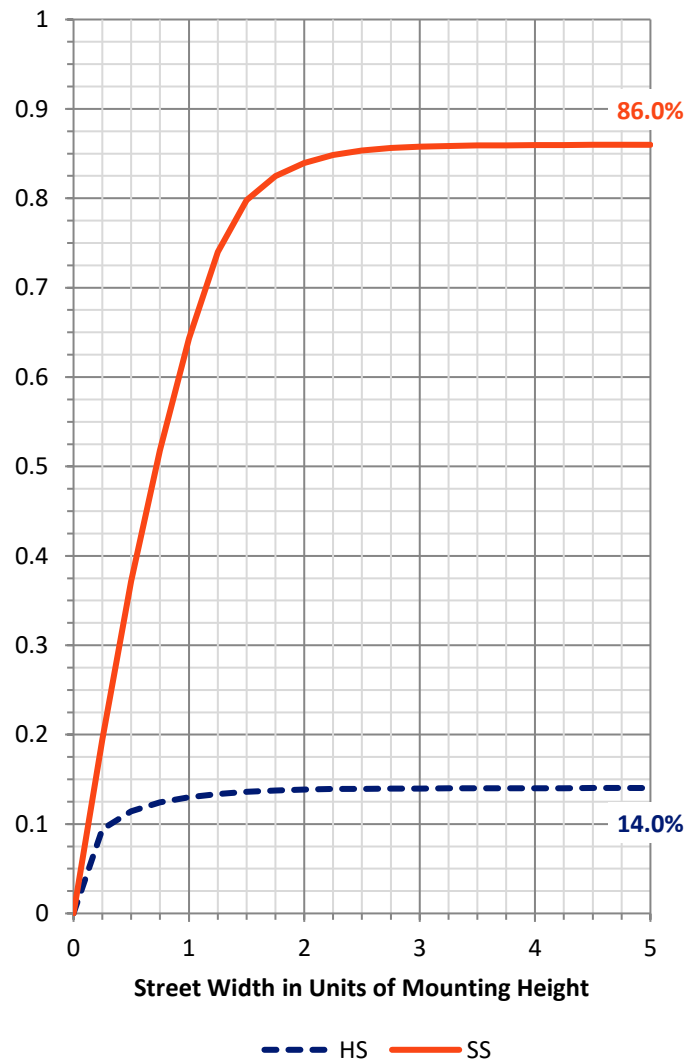
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1777.9   | 0.0    | 1777.9  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 10803.1  | 0.0    | 10803.1 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 12581.0  | 0.0    | 12581.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 463.8   | 3.7       |
| 10°-20°   | 990.1   | 7.9       |
| 20°-30°   | 1312.1  | 10.4      |
| 30°-40°   | 1906.9  | 15.2      |
| 40°-50°   | 2827.7  | 22.5      |
| 50°-60°   | 3535.9  | 28.1      |
| 60°-70°   | 1394.8  | 11.1      |
| 70°-80°   | 138.9   | 1.1       |
| 80°-90°   | 10.8    | 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°    | 12581.0 | 100.0     |
| 0°-180°   | 12581.0 | 100.0     |

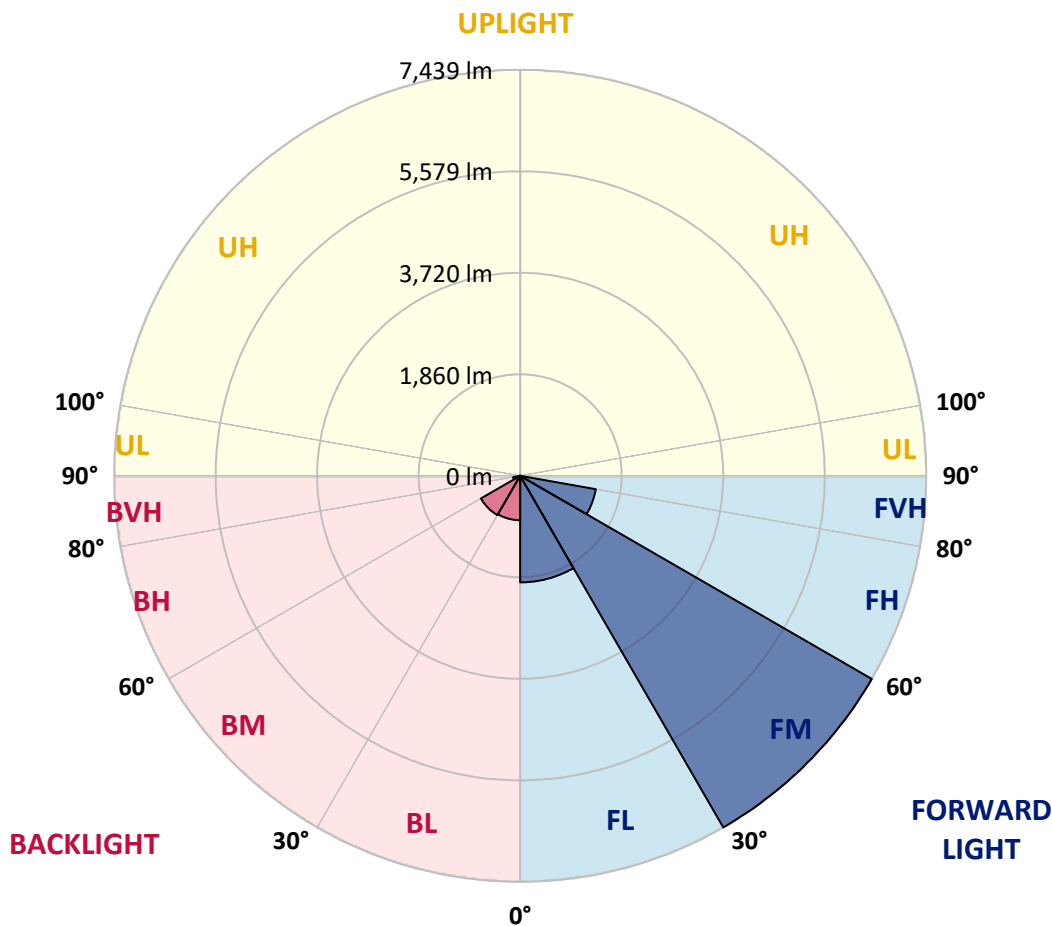


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1952.9 | 15.5      |                         |      |         |
| FM (30°-60°)   | 7439.1 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1406.1 | 11.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 4.9    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 813.1  | 6.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 831.4  | 6.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 127.5  | 1.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 |
| 2.5°  | 5864.9 | 5804.1 | 5808.8 | 5787.7 | 5759.7 | 5780.7 | 5689.5 | 5710.5 | 5708.2 | 5584.2 | 5502.3 |
| 5°    | 5717.6 | 5783.1 | 5715.2 | 5771.4 | 5717.6 | 5776.0 | 5719.9 | 5677.8 | 5609.9 | 5518.7 | 5366.6 |
| 7.5°  | 5467.2 | 5404.1 | 5422.8 | 5493.0 | 5504.7 | 5635.7 | 5565.5 | 5619.3 | 5591.2 | 5411.1 | 5202.9 |
| 10°   | 4964.3 | 4950.2 | 5043.8 | 5137.4 | 5252.0 | 5392.4 | 5446.2 | 5415.8 | 5394.7 | 5326.9 | 5048.5 |
| 12.5° | 4578.3 | 4618.0 | 4615.7 | 4770.1 | 4964.3 | 5043.8 | 5184.2 | 5179.5 | 5296.5 | 5170.1 | 4903.4 |
| 15°   | 4211.0 | 4232.0 | 4330.3 | 4426.2 | 4641.4 | 4868.3 | 5041.5 | 5064.9 | 5205.2 | 5116.3 | 4791.1 |
| 17.5° | 3986.4 | 3956.0 | 4033.2 | 4147.8 | 4367.7 | 4664.8 | 4856.6 | 4912.8 | 5104.6 | 5085.9 | 4662.5 |
| 20°   | 3764.1 | 3764.1 | 3827.3 | 3963.0 | 4164.2 | 4498.7 | 4840.3 | 4823.9 | 5104.6 | 5050.8 | 4524.4 |
| 22.5° | 3689.3 | 3726.7 | 3743.1 | 3846.0 | 4084.6 | 4372.4 | 4770.1 | 4800.5 | 5144.4 | 5034.4 | 4463.6 |
| 25°   | 3792.2 | 3743.1 | 3747.8 | 3829.6 | 4054.2 | 4311.6 | 4718.6 | 4786.5 | 5216.9 | 5116.3 | 4414.5 |
| 27.5° | 3808.6 | 3857.7 | 3871.7 | 3927.9 | 4077.6 | 4330.3 | 4847.3 | 4985.3 | 5397.1 | 5308.2 | 4428.5 |
| 30°   | 3951.3 | 4000.4 | 3998.1 | 4094.0 | 4196.9 | 4482.3 | 5135.0 | 5163.1 | 5769.0 | 5549.1 | 4515.1 |
| 32.5° | 4124.4 | 4175.9 | 4192.3 | 4304.5 | 4386.4 | 4760.7 | 5486.0 | 5558.5 | 6127.0 | 5928.1 | 4742.0 |
| 35°   | 4339.6 | 4320.9 | 4395.8 | 4508.1 | 4683.5 | 5167.8 | 5914.1 | 6035.7 | 6513.0 | 6419.4 | 4976.0 |
| 37.5° | 4608.7 | 4585.3 | 4657.8 | 4840.3 | 5078.9 | 5649.7 | 6309.4 | 6389.0 | 6793.7 | 6875.6 | 5408.8 |
| 40°   | 4798.2 | 4807.5 | 5027.4 | 5273.1 | 5525.7 | 6108.2 | 6559.8 | 6637.0 | 6990.2 | 7301.3 | 5736.3 |
| 42.5° | 5114.0 | 5172.5 | 5436.8 | 5736.3 | 6000.6 | 6452.1 | 6763.3 | 6838.1 | 7081.4 | 7642.9 | 6178.4 |
| 45°   | 5572.5 | 5546.8 | 5839.2 | 6173.7 | 6466.2 | 6810.1 | 7004.2 | 6978.5 | 7135.2 | 7982.1 | 6456.8 |
| 47.5° | 6162.0 | 6166.7 | 6360.9 | 6646.3 | 6950.4 | 7121.2 | 7273.3 | 7182.0 | 7247.5 | 8340.1 | 6828.8 |
| 50°   | 6564.4 | 6599.5 | 6756.3 | 7048.7 | 7200.8 | 7462.8 | 7656.9 | 7600.8 | 7579.7 | 8555.3 | 7062.7 |
| 52.5° | 6667.4 | 6772.6 | 6856.9 | 7221.8 | 7577.4 | 7991.5 | 8239.5 | 8358.8 | 7984.5 | 8627.8 | 7359.8 |
| 55°   | 5890.7 | 5984.3 | 6281.4 | 6782.0 | 7720.1 | 8829.0 | 9170.5 | 9172.9 | 8513.2 | 8950.6 | 7568.0 |
| 57.5° | 4709.3 | 4519.8 | 4702.2 | 5233.3 | 6527.0 | 8793.9 | 9624.4 | 9514.4 | 8777.5 | 8761.1 | 7387.9 |
| 60°   | 3256.5 | 3209.7 | 3221.4 | 3431.9 | 4517.4 | 6994.9 | 8576.3 | 8719.0 | 8082.7 | 7593.8 | 5848.6 |
| 62.5° | 2580.4 | 2540.6 | 2489.1 | 2465.8 | 2805.0 | 4358.4 | 6049.8 | 6250.9 | 5652.1 | 4924.5 | 3467.0 |
| 65°   | 2021.3 | 1997.9 | 2004.9 | 2098.5 | 2096.1 | 2472.8 | 3307.9 | 3226.1 | 2582.7 | 1909.0 | 1090.2 |
| 67.5° | 1363.9 | 1399.0 | 1427.0 | 1710.1 | 1855.2 | 1721.8 | 1597.8 | 1551.0 | 839.9  | 353.3  | 241.0  |
| 70°   | 767.3  | 772.0  | 802.4  | 1069.1 | 1408.3 | 1335.8 | 1101.9 | 1101.9 | 418.8  | 128.7  | 138.0  |
| 72.5° | 418.8  | 404.7  | 376.6  | 460.9  | 627.0  | 636.3  | 491.3  | 428.1  | 124.0  | 84.2   | 77.2   |
| 75°   | 203.5  | 201.2  | 173.1  | 142.7  | 135.7  | 112.3  | 86.6   | 79.5   | 56.1   | 53.8   | 46.8   |
| 77.5° | 42.1   | 39.8   | 21.1   | 21.1   | 23.4   | 25.7   | 32.8   | 32.8   | 39.8   | 39.8   | 32.8   |
| 80°   | 0.0    | 0.0    | 2.3    | 9.4    | 16.4   | 23.4   | 28.1   | 28.1   | 32.8   | 32.8   | 25.7   |
| 82.5° | 0.0    | 0.0    | 2.3    | 7.0    | 14.0   | 21.1   | 25.7   | 28.1   | 32.8   | 35.1   | 28.1   |
| 85°   | 0.0    | 0.0    | 0.0    | 4.7    | 11.7   | 16.4   | 14.0   | 14.0   | 11.7   | 9.4    | 4.7    |
| 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°    | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 | 5542.1 |
| 2.5°  | 5460.2 | 5455.5 | 5347.9 | 5287.1 | 5177.1 | 5081.2 | 5004.0 | 4947.9 | 4947.9 | 4912.8 | 4880.0 |
| 5°    | 5305.8 | 5266.0 | 5036.8 | 4889.4 | 4681.2 | 4526.8 | 4421.5 | 4339.6 | 4211.0 | 4246.1 | 4108.0 |
| 7.5°  | 5114.0 | 5013.4 | 4709.3 | 4484.7 | 4196.9 | 3977.0 | 3752.4 | 3553.6 | 3361.8 | 3275.2 | 3322.0 |
| 10°   | 4908.1 | 4732.7 | 4323.3 | 3967.7 | 3609.7 | 3207.4 | 2945.3 | 2627.2 | 2430.7 | 2419.0 | 2367.5 |
| 12.5° | 4690.5 | 4491.7 | 3993.4 | 3502.1 | 3031.9 | 2547.6 | 2147.6 | 1850.5 | 1717.1 | 1569.8 | 1597.8 |
| 15°   | 4526.8 | 4232.0 | 3626.1 | 3034.2 | 2409.6 | 1920.7 | 1518.3 | 1289.0 | 1162.7 | 1127.6 | 1115.9 |
| 17.5° | 4349.0 | 4033.2 | 3251.8 | 2535.9 | 1890.3 | 1382.6 | 1092.5 | 982.6  | 933.4  | 933.4  | 926.4  |
| 20°   | 4164.2 | 3808.6 | 2879.8 | 2072.7 | 1417.7 | 1031.7 | 874.9  | 839.9  | 837.5  | 835.2  | 835.2  |
| 22.5° | 4042.5 | 3551.2 | 2543.0 | 1647.0 | 1069.1 | 825.8  | 760.3  | 746.3  | 755.6  | 783.7  | 783.7  |
| 25°   | 3913.9 | 3303.3 | 2171.0 | 1270.3 | 828.2  | 708.8  | 671.4  | 680.8  | 704.2  | 729.9  | 720.5  |
| 27.5° | 3782.9 | 3141.8 | 1820.1 | 996.6  | 678.4  | 619.9  | 605.9  | 627.0  | 652.7  | 676.1  | 669.1  |
| 30°   | 3752.4 | 2968.7 | 1487.9 | 755.6  | 582.5  | 540.4  | 549.8  | 568.5  | 594.2  | 603.6  | 612.9  |
| 32.5° | 3799.2 | 2833.0 | 1218.8 | 619.9  | 507.7  | 496.0  | 496.0  | 505.3  | 521.7  | 542.7  | 535.7  |
| 35°   | 3932.6 | 2755.8 | 963.8  | 538.1  | 465.5  | 453.8  | 451.5  | 460.9  | 470.2  | 477.2  | 470.2  |
| 37.5° | 4136.1 | 2695.0 | 788.4  | 477.2  | 437.5  | 418.8  | 414.1  | 411.7  | 421.1  | 423.4  | 428.1  |
| 40°   | 4395.8 | 2727.8 | 669.1  | 439.8  | 409.4  | 388.3  | 374.3  | 374.3  | 374.3  | 381.3  | 383.7  |
| 42.5° | 4676.5 | 2772.2 | 577.8  | 418.8  | 383.7  | 357.9  | 343.9  | 339.2  | 343.9  | 353.3  | 350.9  |
| 45°   | 4971.3 | 2858.8 | 519.4  | 386.0  | 360.3  | 327.5  | 308.8  | 304.1  | 315.8  | 334.5  | 332.2  |
| 47.5° | 5247.3 | 2982.8 | 474.9  | 365.0  | 336.9  | 306.5  | 283.1  | 278.4  | 299.4  | 325.2  | 327.5  |
| 50°   | 5523.4 | 3198.0 | 458.5  | 348.6  | 320.5  | 285.4  | 264.4  | 259.7  | 283.1  | 315.8  | 322.8  |
| 52.5° | 5841.5 | 3429.6 | 446.8  | 327.5  | 301.8  | 269.0  | 245.6  | 241.0  | 266.7  | 308.8  | 311.1  |
| 55°   | 6049.8 | 3626.1 | 437.5  | 290.1  | 266.7  | 243.3  | 224.6  | 222.2  | 250.3  | 287.7  | 297.1  |
| 57.5° | 5806.5 | 3352.4 | 404.7  | 252.7  | 226.9  | 215.2  | 198.9  | 198.9  | 222.2  | 257.3  | 264.4  |
| 60°   | 4402.8 | 2206.1 | 287.7  | 203.5  | 191.8  | 184.8  | 177.8  | 177.8  | 196.5  | 222.2  | 224.6  |
| 62.5° | 2578.0 | 1188.4 | 184.8  | 163.8  | 163.8  | 156.7  | 145.0  | 145.0  | 163.8  | 177.8  | 180.1  |
| 65°   | 765.0  | 381.3  | 149.7  | 140.4  | 138.0  | 126.3  | 114.6  | 112.3  | 126.3  | 133.3  | 131.0  |
| 67.5° | 219.9  | 175.5  | 124.0  | 117.0  | 114.6  | 95.9   | 88.9   | 86.6   | 88.9   | 84.2   | 81.9   |
| 70°   | 131.0  | 119.3  | 95.9   | 98.3   | 86.6   | 70.2   | 63.2   | 60.8   | 56.1   | 49.1   | 44.4   |
| 72.5° | 72.5   | 72.5   | 70.2   | 74.9   | 60.8   | 46.8   | 39.8   | 32.8   | 25.7   | 21.1   | 18.7   |
| 75°   | 44.4   | 46.8   | 49.1   | 51.5   | 39.8   | 30.4   | 25.7   | 16.4   | 9.4    | 4.7    | 4.7    |
| 77.5° | 30.4   | 32.8   | 35.1   | 37.4   | 32.8   | 28.1   | 21.1   | 11.7   | 2.3    | 0.0    | 0.0    |
| 80°   | 23.4   | 25.7   | 30.4   | 32.8   | 35.1   | 37.4   | 28.1   | 11.7   | 2.3    | 0.0    | 0.0    |
| 82.5° | 25.7   | 28.1   | 35.1   | 32.8   | 32.8   | 32.8   | 25.7   | 11.7   | 2.3    | 0.0    | 0.0    |
| 85°   | 4.7    | 7.0    | 11.7   | 11.7   | 16.4   | 21.1   | 16.4   | 4.7    | 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)