

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: P530143

Luminaire Tested: **GALN-SA5B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-750-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17331 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

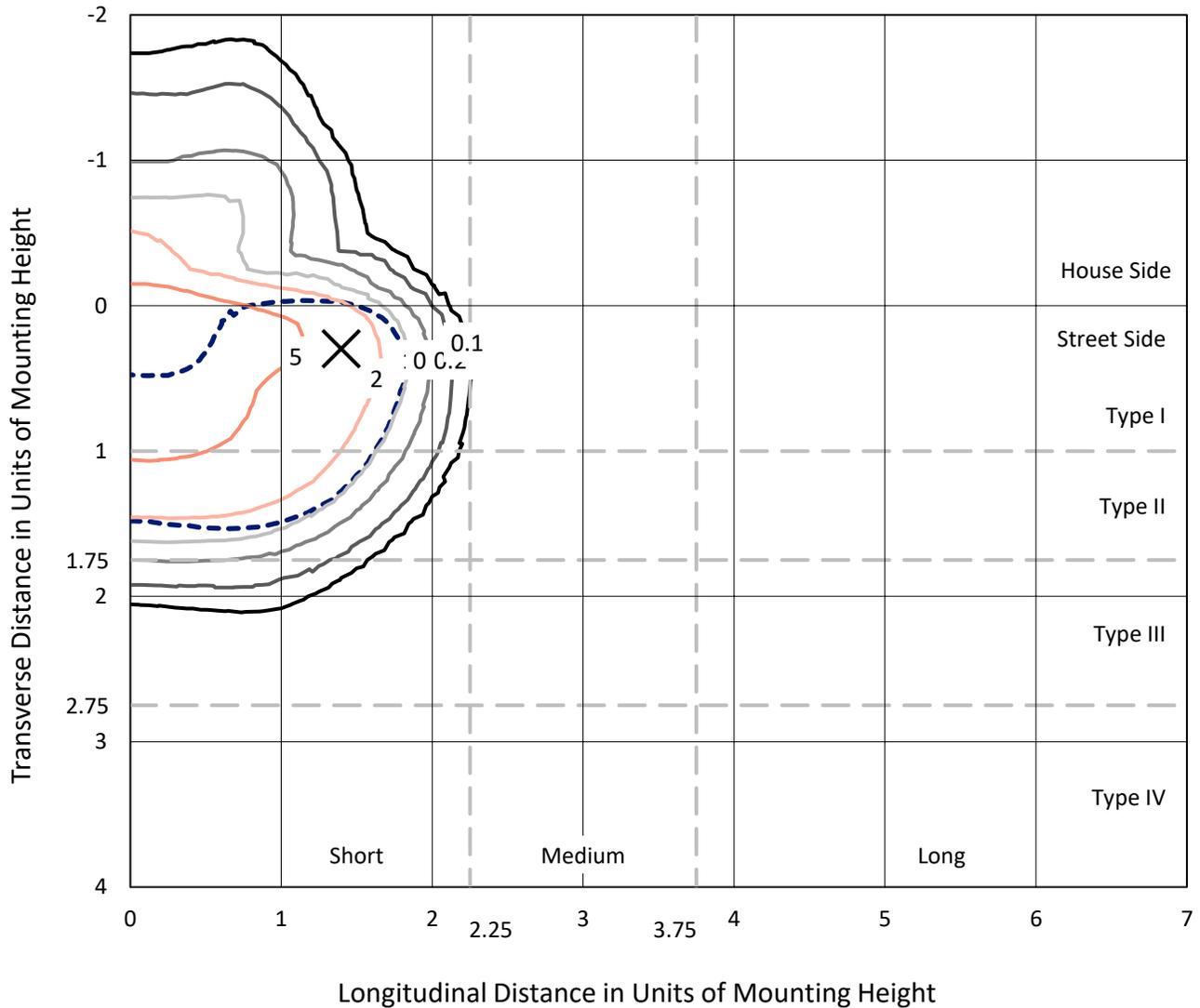
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

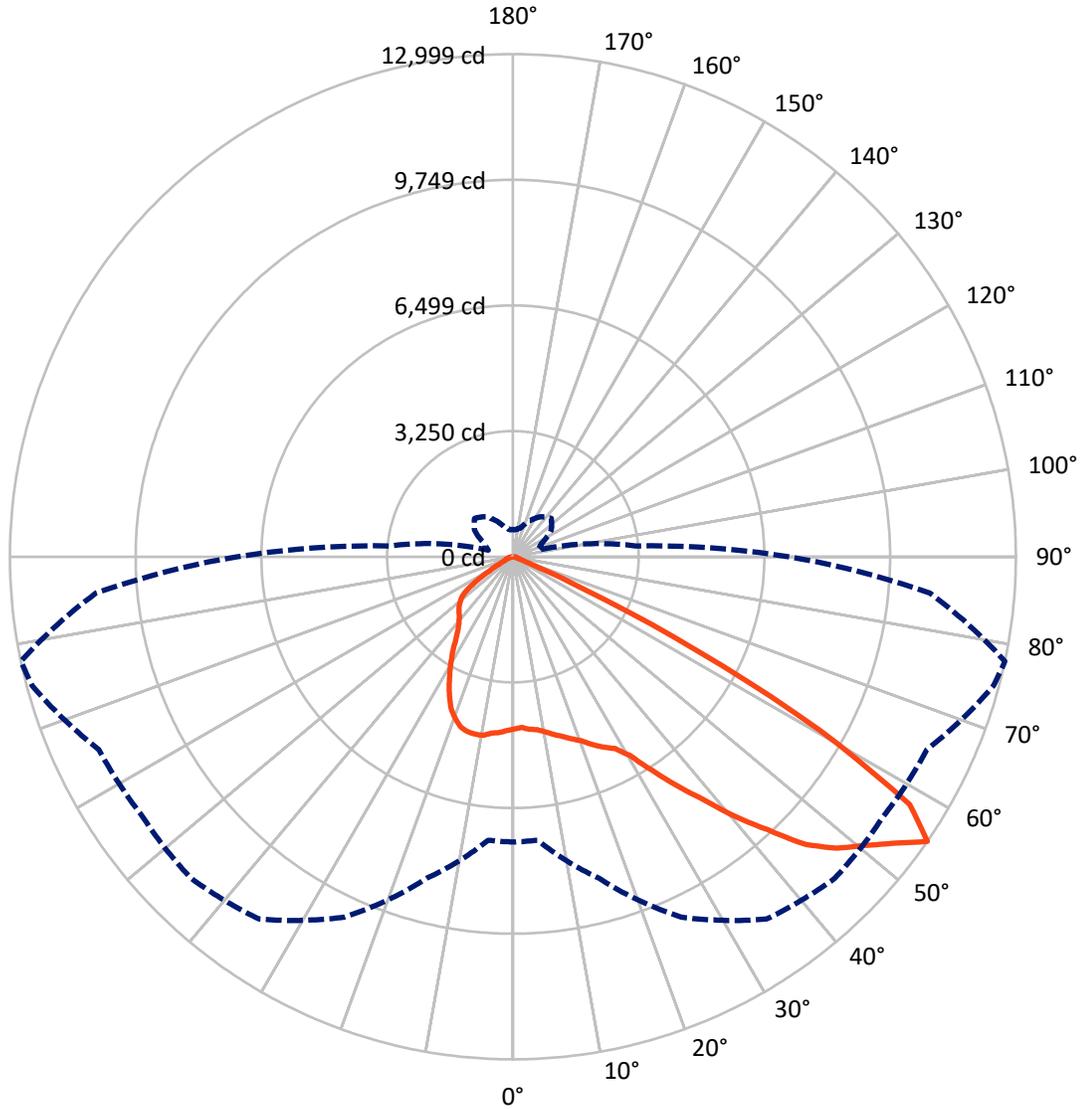
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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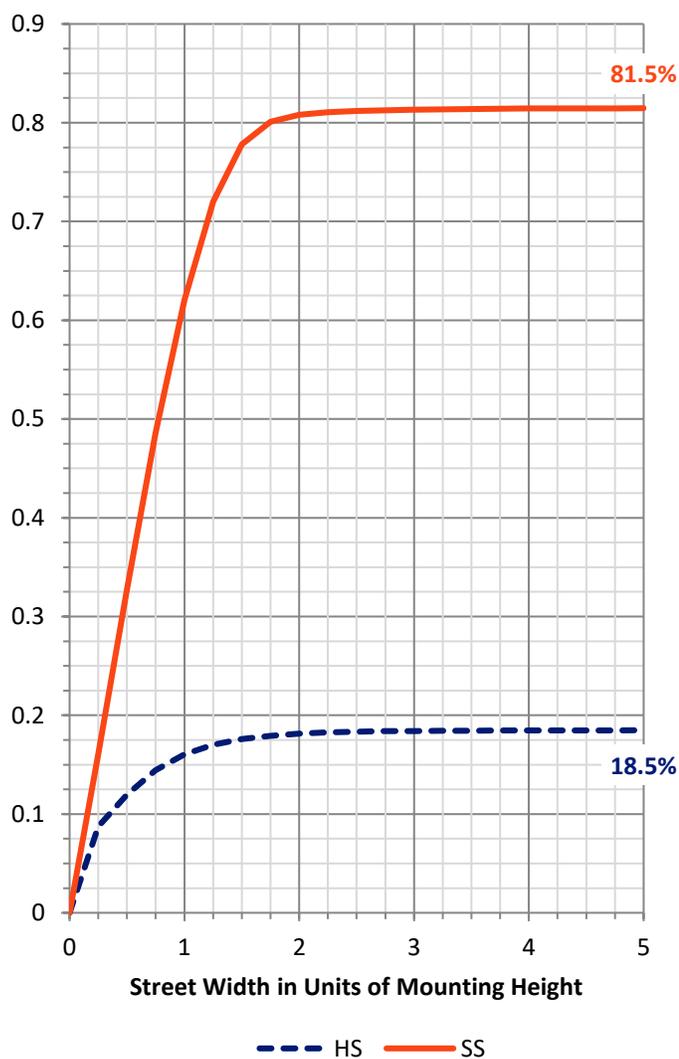
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3219.1   | 0.0    | 3219.1  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 14112.0  | 0.0    | 14112.0 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 17331.0  | 0.0    | 17331.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 397.3   | 2.3       |
| 10°-20°   | 1051.5  | 6.1       |
| 20°-30°   | 1843.1  | 10.6      |
| 30°-40°   | 3039.0  | 17.5      |
| 40°-50°   | 4422.2  | 25.5      |
| 50°-60°   | 5010.8  | 28.9      |
| 60°-70°   | 1432.7  | 8.3       |
| 70°-80°   | 111.3   | 0.6       |
| 80°-90°   | 23.2    | 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°    | 17331.0 | 100.0     |
| 0°-180°   | 17331.0 | 100.0     |

**Coefficient of Utilization**



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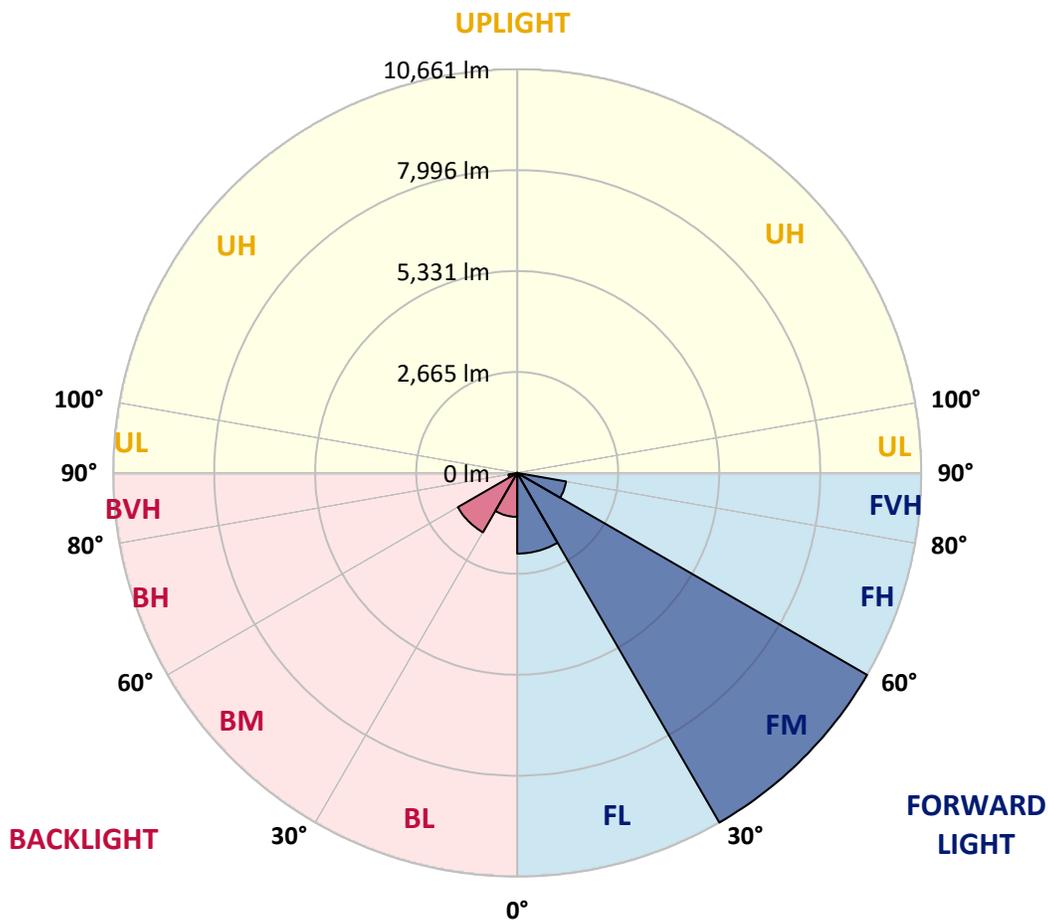
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2130.5  | 12.3      |                         |      |         |
| FM (30°-60°)   | 10661.3 | 61.5      |                         |      |         |
| FH (60°-80°)   | 1309.0  | 7.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 11.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1161.4  | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 1810.8  | 10.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 235.0   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 11.9    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4455.8 | 4455.8 | 4455.8  | 4455.8  | 4455.8  | 4455.8  | 4455.8  | 4455.8  | 4455.8  | 4455.8  | 4455.8  |
| 2.5°  | 4189.3 | 4229.6 | 4235.8  | 4285.4  | 4282.3  | 4366.0  | 4390.7  | 4393.8  | 4449.6  | 4421.7  | 4493.0  |
| 5°    | 4071.6 | 4049.9 | 4040.6  | 4127.4  | 4152.1  | 4226.5  | 4288.5  | 4325.7  | 4440.3  | 4480.6  | 4555.0  |
| 7.5°  | 3966.2 | 3966.2 | 3972.4  | 4049.9  | 4040.6  | 4136.7  | 4201.7  | 4316.4  | 4483.7  | 4517.8  | 4607.6  |
| 10°   | 3864.0 | 3826.8 | 3873.3  | 3953.8  | 4022.0  | 4065.4  | 4201.7  | 4310.2  | 4505.4  | 4604.5  | 4728.5  |
| 12.5° | 3811.3 | 3829.9 | 3836.1  | 3895.0  | 3969.3  | 4099.5  | 4173.8  | 4353.6  | 4660.3  | 4719.2  | 4852.4  |
| 15°   | 4142.9 | 4105.7 | 4015.8  | 3963.1  | 4025.1  | 4087.1  | 4273.0  | 4455.8  | 4740.9  | 4824.5  | 4973.3  |
| 17.5° | 4527.1 | 4496.1 | 4421.7  | 4279.2  | 4139.8  | 4254.4  | 4400.0  | 4567.4  | 4827.6  | 4951.6  | 5171.6  |
| 20°   | 5029.1 | 4979.5 | 4905.1  | 4626.2  | 4505.4  | 4381.4  | 4536.4  | 4734.7  | 4970.2  | 5081.7  | 5307.9  |
| 22.5° | 5627.1 | 5627.1 | 5459.8  | 5122.0  | 4871.0  | 4753.3  | 4818.3  | 4933.0  | 5128.2  | 5280.0  | 5503.1  |
| 25°   | 6249.9 | 6231.3 | 6079.5  | 5729.3  | 5304.8  | 5165.4  | 5239.8  | 5320.3  | 5373.0  | 5456.7  | 5605.4  |
| 27.5° | 6962.6 | 6854.1 | 6662.0  | 6274.7  | 5899.8  | 5630.2  | 5710.7  | 5639.5  | 5574.4  | 5617.8  | 5831.6  |
| 30°   | 7446.0 | 7514.1 | 7269.4  | 6897.5  | 6544.3  | 6243.7  | 6259.2  | 6197.2  | 5899.8  | 5961.7  | 6088.8  |
| 32.5° | 7948.0 | 7991.3 | 7855.0  | 7650.5  | 7297.2  | 6947.1  | 6820.1  | 6767.4  | 6544.3  | 6572.2  | 6448.2  |
| 35°   | 8366.3 | 8449.9 | 8329.1  | 8239.2  | 8137.0  | 7855.0  | 7504.8  | 7675.3  | 7315.8  | 7247.7  | 6925.4  |
| 37.5° | 8750.5 | 8725.7 | 8868.2  | 8775.3  | 8753.6  | 8555.3  | 8171.1  | 8205.1  | 7963.4  | 7948.0  | 7576.1  |
| 40°   | 9094.4 | 9100.6 | 9295.8  | 9339.2  | 9252.5  | 8899.2  | 8341.5  | 8611.1  | 8806.3  | 8824.9  | 8347.7  |
| 42.5° | 9379.5 | 9463.2 | 9630.5  | 9980.6  | 9850.5  | 9261.8  | 8518.1  | 8812.5  | 9537.5  | 9652.2  | 9078.9  |
| 45°   | 9627.4 | 9797.8 | 10005.4 | 10318.4 | 10244.0 | 9776.1  | 8958.1  | 9227.7  | 10318.4 | 10619.0 | 9766.8  |
| 47.5° | 9642.9 | 9866.0 | 10092.2 | 10557.0 | 10649.9 | 10051.9 | 9413.6  | 9884.6  | 10938.1 | 11263.5 | 10268.8 |
| 50°   | 9580.9 | 9698.7 | 10151.1 | 10656.1 | 10866.8 | 10501.2 | 10051.9 | 10436.1 | 11539.2 | 11743.8 | 10522.9 |
| 52.5° | 8846.5 | 8936.4 | 9844.3  | 10749.1 | 11257.3 | 11009.4 | 10897.8 | 11204.6 | 12152.8 | 12304.6 | 10761.5 |
| 55°   | 7374.7 | 7359.2 | 8608.0  | 10281.2 | 11437.0 | 11762.3 | 11694.2 | 11802.6 | 12862.4 | 12998.7 | 10820.4 |
| 57.5° | 5044.5 | 5326.5 | 6404.8  | 8561.5  | 10337.0 | 11585.7 | 11657.0 | 11477.3 | 12035.0 | 12087.7 | 9432.2  |
| 60°   | 2720.6 | 2838.3 | 3705.9  | 5713.8  | 7870.5  | 9441.5  | 9627.4  | 9302.0  | 9258.7  | 9109.9  | 6733.3  |
| 62.5° | 1081.4 | 1140.3 | 1633.0  | 2829.0  | 4288.5  | 5738.6  | 6138.4  | 6005.1  | 5720.0  | 5329.6  | 3485.9  |
| 65°   | 514.4  | 551.6  | 811.8   | 1323.1  | 1902.6  | 2392.1  | 2791.9  | 2915.8  | 2150.4  | 1936.6  | 1149.6  |
| 67.5° | 350.1  | 378.0  | 591.8   | 756.1   | 678.6   | 709.6   | 923.4   | 858.3   | 505.1   | 430.7   | 319.2   |
| 70°   | 266.5  | 285.1  | 474.1   | 514.4   | 303.7   | 213.8   | 238.6   | 223.1   | 207.6   | 210.7   | 207.6   |
| 72.5° | 189.0  | 204.5  | 347.0   | 303.7   | 133.2   | 99.2    | 127.0   | 151.8   | 151.8   | 151.8   | 148.7   |
| 75°   | 114.6  | 130.1  | 201.4   | 117.7   | 52.7    | 52.7    | 80.6    | 102.3   | 108.5   | 111.6   | 105.4   |
| 77.5° | 58.9   | 74.4   | 68.2    | 34.1    | 34.1    | 40.3    | 58.9    | 71.3    | 77.5    | 77.5    | 74.4    |
| 80°   | 12.4   | 12.4   | 12.4    | 18.6    | 34.1    | 43.4    | 58.9    | 65.1    | 74.4    | 74.4    | 68.2    |
| 82.5° | 0.0    | 3.1    | 9.3     | 18.6    | 31.0    | 40.3    | 55.8    | 65.1    | 74.4    | 77.5    | 71.3    |
| 85°   | 0.0    | 3.1    | 6.2     | 12.4    | 21.7    | 24.8    | 21.7    | 18.6    | 18.6    | 18.6    | 18.6    |
| 87.5° | 0.0    | 0.0    | 3.1     | 3.1     | 3.1     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 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°    | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 | 4455.8 |
| 2.5°  | 4499.2 | 4508.5 | 4493.0 | 4489.9 | 4477.5 | 4514.7 | 4424.8 | 4403.1 | 4458.9 | 4406.2 | 4418.6 |
| 5°    | 4558.1 | 4579.8 | 4551.9 | 4505.4 | 4437.2 | 4331.9 | 4242.0 | 4124.3 | 4068.5 | 4028.2 | 4022.0 |
| 7.5°  | 4601.4 | 4616.9 | 4589.1 | 4440.3 | 4235.8 | 3969.3 | 3771.0 | 3625.4 | 3510.7 | 3476.6 | 3420.9 |
| 10°   | 4778.1 | 4781.2 | 4641.7 | 4313.3 | 3913.6 | 3563.4 | 3259.7 | 3036.6 | 2922.0 | 2850.7 | 2819.7 |
| 12.5° | 4895.8 | 4889.6 | 4607.6 | 4062.3 | 3529.3 | 3064.5 | 2717.5 | 2447.9 | 2342.6 | 2308.5 | 2286.8 |
| 15°   | 5044.5 | 5010.5 | 4527.1 | 3805.1 | 3033.5 | 2531.6 | 2218.6 | 2032.7 | 2023.4 | 2001.7 | 2023.4 |
| 17.5° | 5162.3 | 5066.2 | 4409.3 | 3337.2 | 2559.5 | 2085.4 | 1880.9 | 1893.3 | 1918.0 | 1939.7 | 1942.8 |
| 20°   | 5354.4 | 5156.1 | 4139.8 | 2928.2 | 2119.5 | 1787.9 | 1784.8 | 1840.6 | 1902.6 | 1927.3 | 1952.1 |
| 22.5° | 5500.0 | 5193.3 | 3851.6 | 2491.3 | 1760.0 | 1667.1 | 1719.7 | 1803.4 | 1849.9 | 1874.7 | 1911.8 |
| 25°   | 5552.7 | 5091.0 | 3467.4 | 2054.4 | 1586.5 | 1611.3 | 1691.8 | 1747.6 | 1806.5 | 1834.4 | 1818.9 |
| 27.5° | 5605.4 | 5038.4 | 3008.8 | 1691.8 | 1493.5 | 1574.1 | 1642.3 | 1698.0 | 1716.6 | 1753.8 | 1778.6 |
| 30°   | 5732.4 | 4855.5 | 2596.6 | 1462.5 | 1447.1 | 1549.3 | 1598.9 | 1617.5 | 1667.1 | 1688.7 | 1688.7 |
| 32.5° | 5834.7 | 4784.3 | 2159.7 | 1354.1 | 1440.9 | 1561.7 | 1567.9 | 1567.9 | 1574.1 | 1558.6 | 1552.4 |
| 35°   | 6045.4 | 4539.5 | 1769.3 | 1289.0 | 1437.8 | 1564.8 | 1580.3 | 1527.6 | 1385.1 | 1329.3 | 1313.8 |
| 37.5° | 6305.7 | 4381.4 | 1481.1 | 1273.5 | 1459.4 | 1602.0 | 1626.8 | 1428.5 | 1242.5 | 1152.7 | 1137.2 |
| 40°   | 6621.7 | 4269.9 | 1292.1 | 1267.3 | 1509.0 | 1688.7 | 1614.4 | 1351.0 | 1109.3 | 979.2  | 973.0  |
| 42.5° | 6990.5 | 4167.6 | 1165.1 | 1264.2 | 1571.0 | 1778.6 | 1602.0 | 1285.9 | 973.0  | 886.2  | 898.6  |
| 45°   | 7284.8 | 4111.9 | 1078.3 | 1242.5 | 1592.7 | 1831.3 | 1611.3 | 1171.3 | 917.2  | 861.4  | 867.6  |
| 47.5° | 7514.1 | 3994.1 | 1007.1 | 1205.4 | 1589.6 | 1849.9 | 1527.6 | 1124.8 | 889.3  | 904.8  | 920.3  |
| 50°   | 7520.3 | 3836.1 | 917.2  | 1124.8 | 1543.1 | 1815.8 | 1431.6 | 1081.4 | 883.1  | 948.2  | 979.2  |
| 52.5° | 7436.7 | 3613.0 | 821.1  | 1010.1 | 1434.7 | 1698.0 | 1344.8 | 1062.8 | 855.2  | 849.0  | 886.2  |
| 55°   | 7139.2 | 3194.7 | 660.0  | 818.0  | 1211.6 | 1400.6 | 1267.3 | 1028.7 | 771.6  | 700.3  | 706.5  |
| 57.5° | 5769.6 | 2289.9 | 486.5  | 585.6  | 858.3  | 1025.6 | 1143.4 | 1013.2 | 694.1  | 594.9  | 598.0  |
| 60°   | 3572.7 | 1298.3 | 356.3  | 399.7  | 529.9  | 622.8  | 926.5  | 942.0  | 619.7  | 502.0  | 495.8  |
| 62.5° | 1834.4 | 641.4  | 275.8  | 282.0  | 325.4  | 365.6  | 635.2  | 790.1  | 560.8  | 477.2  | 477.2  |
| 65°   | 613.5  | 316.1  | 241.7  | 216.9  | 216.9  | 226.2  | 384.2  | 548.5  | 474.1  | 399.7  | 399.7  |
| 67.5° | 263.4  | 235.5  | 210.7  | 189.0  | 173.5  | 164.2  | 216.9  | 319.2  | 353.2  | 303.7  | 291.3  |
| 70°   | 204.5  | 198.3  | 182.8  | 158.0  | 136.3  | 123.9  | 127.0  | 164.2  | 201.4  | 195.2  | 189.0  |
| 72.5° | 151.8  | 151.8  | 145.6  | 123.9  | 105.4  | 89.9   | 83.7   | 86.8   | 96.1   | 99.2   | 102.3  |
| 75°   | 105.4  | 108.5  | 108.5  | 96.1   | 77.5   | 65.1   | 55.8   | 46.5   | 37.2   | 31.0   | 27.9   |
| 77.5° | 71.3   | 74.4   | 80.6   | 71.3   | 58.9   | 43.4   | 34.1   | 24.8   | 15.5   | 6.2    | 6.2    |
| 80°   | 62.0   | 71.3   | 77.5   | 71.3   | 62.0   | 46.5   | 34.1   | 18.6   | 9.3    | 0.0    | 0.0    |
| 82.5° | 65.1   | 71.3   | 80.6   | 68.2   | 58.9   | 43.4   | 34.1   | 21.7   | 9.3    | 3.1    | 0.0    |
| 85°   | 15.5   | 15.5   | 18.6   | 21.7   | 27.9   | 31.0   | 24.8   | 15.5   | 9.3    | 3.1    | 0.0    |
| 87.5° | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 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)