

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: P647013

Luminaire Tested: **GALN-SA6C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19255.5 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

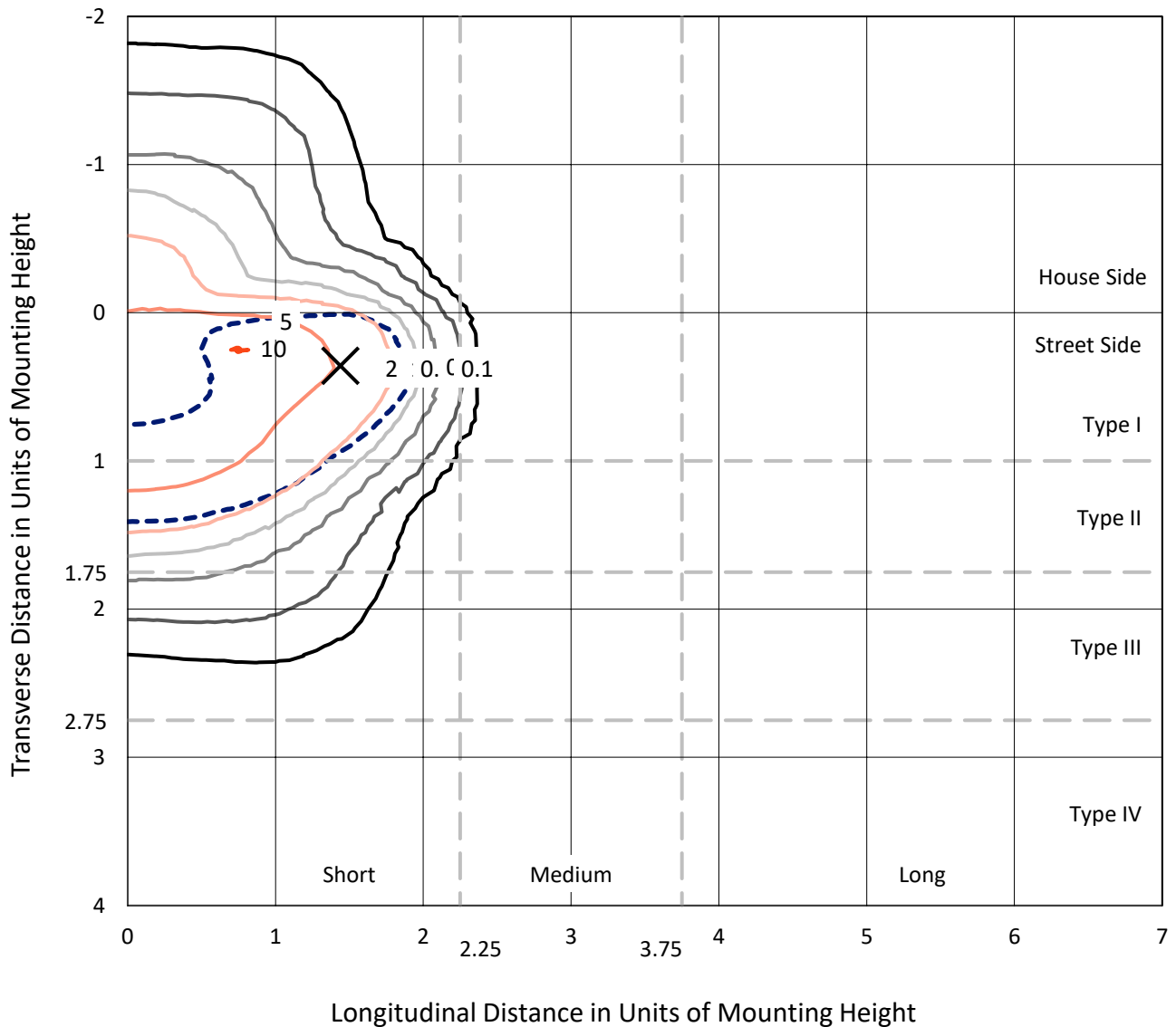
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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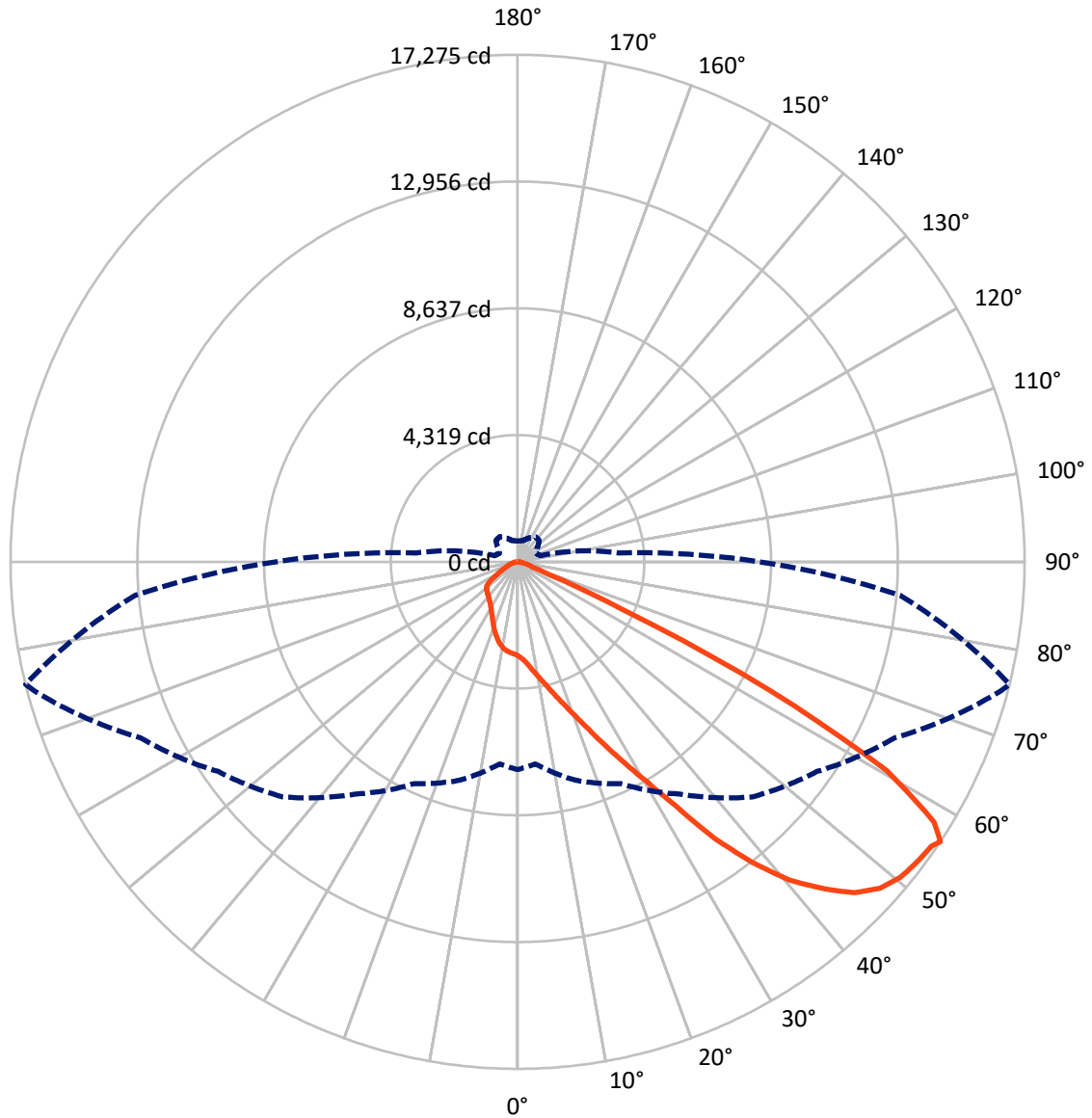
### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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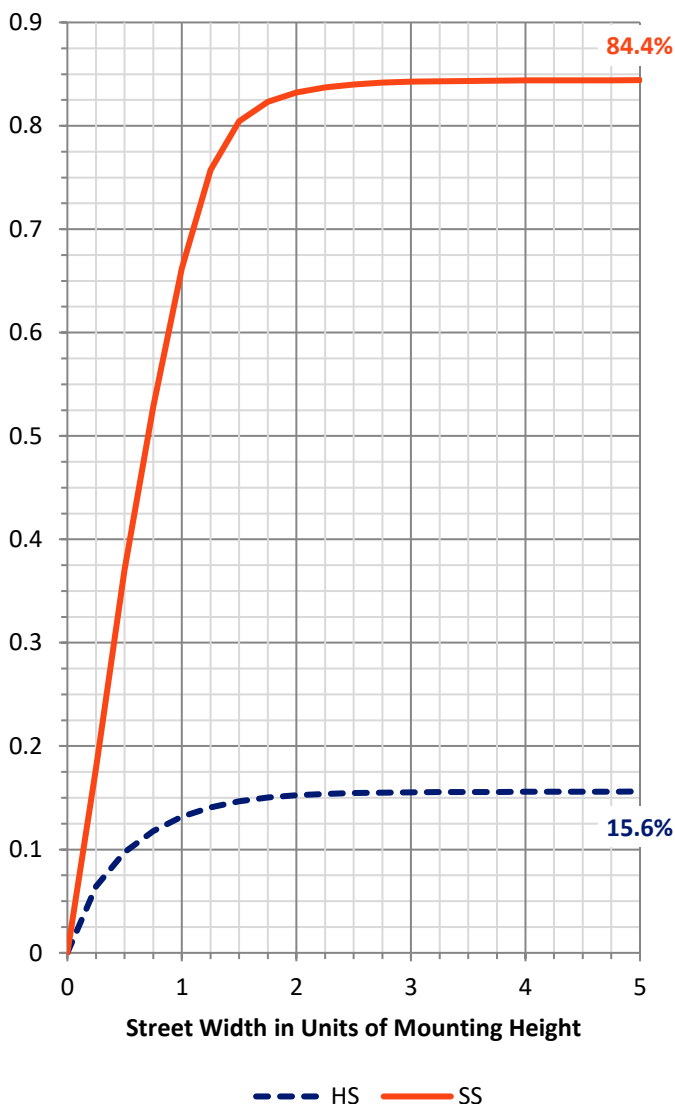
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3024.9   | 0.0    | 3024.9  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 16230.6  | 0.0    | 16230.6 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 19255.5  | 0.0    | 19255.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 322.9   | 1.7       |
| 10°-20°   | 1037.3  | 5.4       |
| 20°-30°   | 1880.8  | 9.8       |
| 30°-40°   | 3243.6  | 16.8      |
| 40°-50°   | 5269.3  | 27.4      |
| 50°-60°   | 5554.0  | 28.8      |
| 60°-70°   | 1697.0  | 8.8       |
| 70°-80°   | 217.5   | 1.1       |
| 80°-90°   | 33.1    | 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°    | 19255.5 | 100.0     |
| 0°-180°   | 19255.5 | 100.0     |

**Coefficient of Utilization**



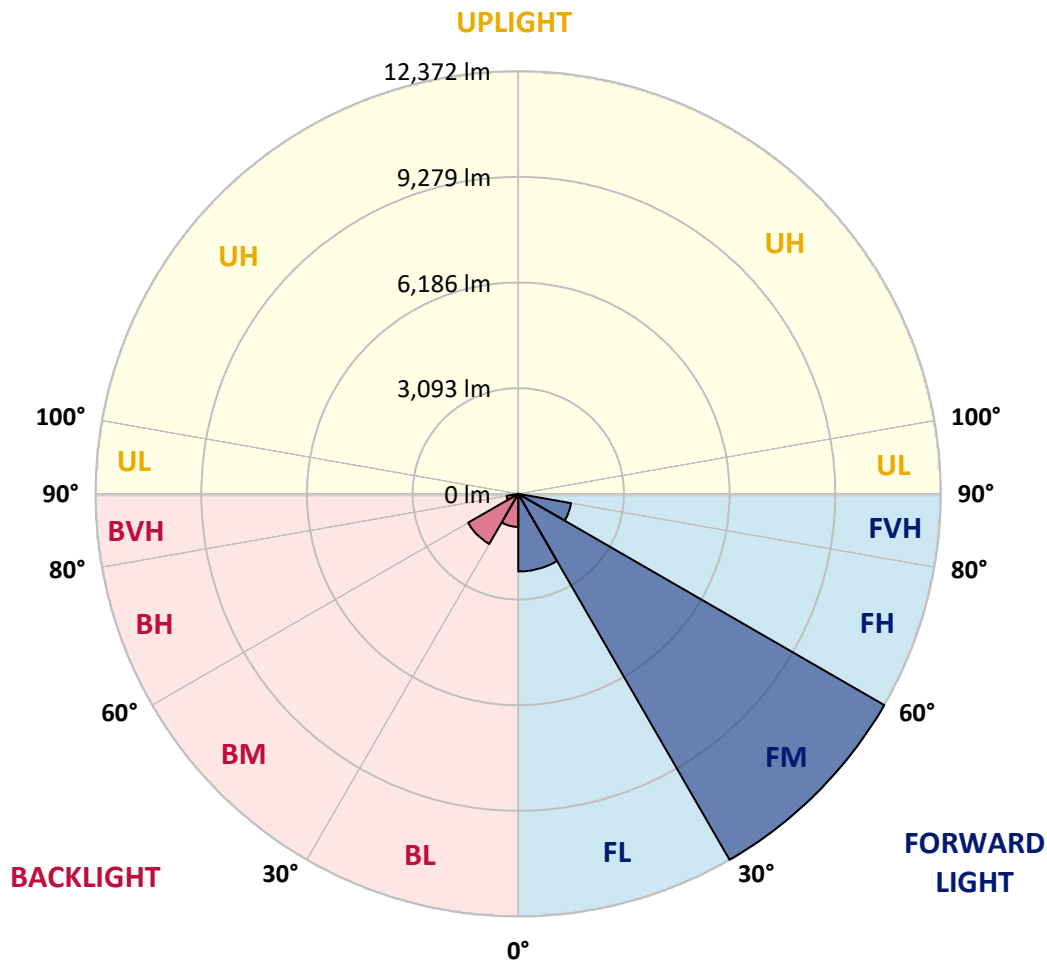
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2273.3  | 11.8      |                         |      |         |
| FM (30°-60°)   | 12371.7 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1569.4  | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.2    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 967.7   | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1695.3  | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 345.1   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 16.9    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  | 3205.1  |
| 2.5°  | 3691.4  | 3606.2  | 3609.7  | 3602.7  | 3592.0  | 3552.9  | 3435.8  | 3418.1  | 3340.0  | 3318.7  | 3247.7  |
| 5°    | 4135.0  | 4060.5  | 4103.1  | 4039.3  | 3978.9  | 3943.4  | 3751.7  | 3663.0  | 3538.8  | 3492.6  | 3393.2  |
| 7.5°  | 4411.9  | 4376.4  | 4362.2  | 4365.8  | 4309.0  | 4220.2  | 4135.0  | 3939.8  | 3773.0  | 3737.5  | 3528.1  |
| 10°   | 4546.8  | 4525.5  | 4546.8  | 4536.2  | 4561.0  | 4571.6  | 4422.5  | 4305.4  | 4060.5  | 4000.2  | 3673.6  |
| 12.5° | 4578.7  | 4621.3  | 4639.0  | 4685.2  | 4745.5  | 4848.5  | 4837.8  | 4678.1  | 4351.6  | 4312.5  | 3897.2  |
| 15°   | 4656.8  | 4692.3  | 4674.6  | 4749.1  | 4862.7  | 5036.6  | 5128.9  | 5104.1  | 4752.7  | 4681.6  | 4156.3  |
| 17.5° | 4727.8  | 4663.9  | 4724.2  | 4873.3  | 4986.9  | 5253.1  | 5476.7  | 5579.7  | 5189.3  | 5107.6  | 4394.2  |
| 20°   | 4823.7  | 4805.9  | 4795.2  | 4869.8  | 5072.1  | 5427.1  | 5870.7  | 6058.9  | 5679.0  | 5593.8  | 4734.9  |
| 22.5° | 5114.7  | 5118.2  | 5111.1  | 5001.1  | 5146.7  | 5547.7  | 6215.0  | 6680.0  | 6264.7  | 6193.7  | 5121.8  |
| 25°   | 5498.0  | 5451.9  | 5416.4  | 5327.7  | 5309.9  | 5657.7  | 6562.9  | 7439.5  | 6967.4  | 6917.8  | 5540.6  |
| 27.5° | 5902.6  | 5902.6  | 5796.2  | 5714.6  | 5601.0  | 5931.1  | 6882.3  | 8177.8  | 7815.8  | 7748.3  | 5906.2  |
| 30°   | 6342.8  | 6367.7  | 6353.4  | 6179.5  | 6108.5  | 6229.2  | 7208.8  | 9122.0  | 8788.3  | 8703.1  | 6509.6  |
| 32.5° | 6992.3  | 6939.1  | 6999.4  | 6853.9  | 6644.5  | 6750.9  | 7723.5  | 9966.7  | 10051.9 | 9931.3  | 7301.2  |
| 35°   | 7851.3  | 7819.4  | 7780.3  | 7542.5  | 7294.0  | 7379.2  | 8451.2  | 11006.7 | 11638.5 | 11578.1 | 8099.7  |
| 37.5° | 8621.5  | 8603.8  | 8571.8  | 8408.6  | 8121.0  | 8224.0  | 9278.2  | 12089.3 | 13186.0 | 12987.3 | 9228.4  |
| 40°   | 9430.8  | 9526.6  | 9423.6  | 9278.2  | 9015.5  | 9242.7  | 10250.6 | 12731.7 | 14488.7 | 14247.3 | 10091.0 |
| 42.5° | 10527.5 | 10453.0 | 10499.2 | 10232.9 | 10091.0 | 10339.4 | 11226.7 | 13374.2 | 15500.3 | 15212.8 | 11006.7 |
| 45°   | 11695.3 | 11698.8 | 11574.6 | 11489.4 | 11120.3 | 11390.1 | 11826.6 | 13729.1 | 16306.0 | 16082.4 | 11698.8 |
| 47.5° | 12444.2 | 12440.7 | 12575.5 | 12710.4 | 12330.6 | 12064.5 | 12234.8 | 14066.3 | 16721.3 | 16618.3 | 11950.9 |
| 50°   | 12327.1 | 12362.6 | 12536.5 | 13040.6 | 13239.3 | 12880.8 | 12618.1 | 13966.9 | 16909.4 | 16898.7 | 12167.4 |
| 52.5° | 10722.7 | 10839.9 | 11131.0 | 11858.5 | 12859.5 | 13303.2 | 13019.3 | 14151.5 | 17001.7 | 17019.4 | 12490.3 |
| 55°   | 8163.6  | 8227.5  | 8781.3  | 9665.0  | 10772.4 | 12291.6 | 12859.5 | 14297.0 | 17072.6 | 17104.6 | 12880.8 |
| 56°   | 7081.1  | 6910.7  | 7709.3  | 8337.5  | 9661.5  | 11322.6 | 12454.9 | 14183.4 | 17030.0 | 17274.9 | 13076.0 |
| 57.5° | 5345.4  | 5231.8  | 5877.8  | 6662.2  | 7936.5  | 9689.9  | 11198.4 | 13647.5 | 16742.6 | 16739.0 | 12795.6 |
| 60°   | 3251.3  | 3137.6  | 3634.6  | 4096.0  | 4809.4  | 5966.5  | 7567.3  | 10868.3 | 14155.0 | 14453.2 | 10360.7 |
| 62.5° | 1934.4  | 2005.4  | 2495.3  | 2775.7  | 3006.3  | 3127.0  | 3915.0  | 6459.9  | 9444.9  | 9657.9  | 6428.0  |
| 65°   | 1288.4  | 1313.2  | 1682.4  | 2143.9  | 2246.7  | 1788.9  | 1593.7  | 2615.9  | 4096.0  | 3964.7  | 2651.4  |
| 67.5° | 795.1   | 851.8   | 1128.7  | 1611.4  | 1785.3  | 1306.2  | 756.0   | 976.1   | 1128.7  | 1128.7  | 766.6   |
| 70°   | 482.7   | 511.1   | 752.5   | 1096.7  | 1224.5  | 841.2   | 550.1   | 550.1   | 543.1   | 532.4   | 457.9   |
| 72.5° | 230.8   | 248.4   | 383.4   | 564.4   | 575.0   | 443.6   | 426.0   | 464.9   | 454.3   | 450.8   | 379.8   |
| 75°   | 99.4    | 106.5   | 134.9   | 177.5   | 202.3   | 188.2   | 259.1   | 333.6   | 344.3   | 333.6   | 273.3   |
| 77.5° | 31.9    | 35.5    | 49.7    | 63.9    | 67.4    | 81.7    | 110.0   | 138.4   | 159.7   | 149.1   | 134.9   |
| 80°   | 3.5     | 7.1     | 14.2    | 31.9    | 49.7    | 63.9    | 81.7    | 92.3    | 103.0   | 103.0   | 95.8    |
| 82.5° | 3.5     | 3.5     | 14.2    | 28.4    | 46.1    | 60.4    | 78.1    | 88.7    | 103.0   | 106.5   | 99.4    |
| 85°   | 0.0     | 3.5     | 10.6    | 24.8    | 39.1    | 39.1    | 35.5    | 35.5    | 24.8    | 24.8    | 24.8    |
| 87.5° | 0.0     | 0.0     | 3.5     | 3.5     | 3.5     | 7.1     | 7.1     | 7.1     | 7.1     | 7.1     | 7.1     |
| 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°    | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 | 3205.1 |
| 2.5°  | 3233.5 | 3226.4 | 3130.6 | 3070.2 | 3038.3 | 2974.4 | 2935.4 | 2907.0 | 2885.7 | 2860.8 | 2864.4 |
| 5°    | 3276.1 | 3251.3 | 3091.5 | 2981.5 | 2850.2 | 2779.2 | 2718.8 | 2669.2 | 2637.2 | 2630.1 | 2615.9 |
| 7.5°  | 3396.8 | 3265.4 | 3024.1 | 2825.3 | 2658.5 | 2587.5 | 2534.3 | 2502.3 | 2516.6 | 2484.6 | 2509.4 |
| 10°   | 3489.0 | 3293.8 | 2942.4 | 2654.9 | 2488.1 | 2434.9 | 2406.5 | 2431.4 | 2466.8 | 2452.7 | 2434.9 |
| 12.5° | 3602.7 | 3322.3 | 2811.1 | 2491.7 | 2335.5 | 2296.5 | 2346.2 | 2392.3 | 2463.3 | 2491.7 | 2456.2 |
| 15°   | 3730.4 | 3354.2 | 2644.3 | 2303.6 | 2204.1 | 2236.1 | 2321.3 | 2402.9 | 2474.0 | 2509.4 | 2530.7 |
| 17.5° | 3886.6 | 3343.6 | 2481.0 | 2154.5 | 2080.0 | 2172.2 | 2275.2 | 2349.7 | 2456.2 | 2509.4 | 2495.3 |
| 20°   | 4032.1 | 3308.0 | 2300.0 | 2005.4 | 2008.9 | 2094.1 | 2179.3 | 2300.0 | 2356.8 | 2427.8 | 2402.9 |
| 22.5° | 4170.6 | 3244.1 | 2111.9 | 1902.5 | 1902.5 | 2033.8 | 2076.4 | 2154.5 | 2204.1 | 2239.7 | 2236.1 |
| 25°   | 4365.8 | 3123.5 | 1955.7 | 1803.1 | 1845.7 | 1930.9 | 1966.3 | 1991.2 | 1969.9 | 1998.3 | 2001.9 |
| 27.5° | 4504.2 | 2999.3 | 1827.9 | 1714.4 | 1792.4 | 1856.3 | 1845.7 | 1831.5 | 1781.8 | 1742.7 | 1767.6 |
| 30°   | 4653.3 | 2853.7 | 1717.9 | 1654.0 | 1696.6 | 1753.4 | 1710.8 | 1668.2 | 1590.1 | 1526.2 | 1529.8 |
| 32.5° | 4866.3 | 2786.3 | 1622.1 | 1583.1 | 1639.8 | 1647.0 | 1600.8 | 1536.9 | 1458.8 | 1398.4 | 1394.9 |
| 35°   | 5263.8 | 2743.7 | 1540.5 | 1536.9 | 1547.5 | 1551.1 | 1504.9 | 1426.9 | 1394.9 | 1345.2 | 1363.0 |
| 37.5° | 5661.3 | 2722.4 | 1483.6 | 1469.5 | 1465.9 | 1469.5 | 1416.2 | 1341.7 | 1402.0 | 1398.4 | 1405.6 |
| 40°   | 6168.9 | 2818.3 | 1402.0 | 1384.3 | 1387.8 | 1387.8 | 1320.4 | 1299.1 | 1405.6 | 1416.2 | 1419.7 |
| 42.5° | 6683.5 | 2938.9 | 1348.8 | 1292.0 | 1306.2 | 1306.2 | 1270.7 | 1245.8 | 1320.4 | 1249.4 | 1238.7 |
| 45°   | 7130.8 | 3116.3 | 1292.0 | 1199.7 | 1235.2 | 1253.0 | 1242.3 | 1199.7 | 1153.6 | 1032.9 | 1032.9 |
| 47.5° | 7276.3 | 3272.5 | 1224.5 | 1111.0 | 1139.3 | 1217.4 | 1185.5 | 1096.7 | 1015.2 | 915.7  | 908.7  |
| 50°   | 7531.8 | 3442.9 | 1171.3 | 1008.0 | 1068.4 | 1164.2 | 1132.3 | 1043.5 | 951.3  | 880.2  | 883.8  |
| 52.5° | 7794.5 | 3638.1 | 1071.9 | 887.4  | 961.9  | 1121.6 | 1121.6 | 1022.2 | 880.2  | 830.5  | 823.5  |
| 55°   | 8188.5 | 3631.0 | 894.4  | 727.6  | 859.0  | 1057.8 | 1075.5 | 915.7  | 787.9  | 748.9  | 748.9  |
| 56°   | 8245.3 | 3467.8 | 805.7  | 681.5  | 812.8  | 1040.0 | 1043.5 | 887.4  | 752.5  | 709.9  | 709.9  |
| 57.5° | 7819.4 | 3130.6 | 706.3  | 624.7  | 756.0  | 1008.0 | 1011.6 | 862.5  | 724.0  | 663.7  | 656.6  |
| 60°   | 6016.3 | 2119.0 | 589.2  | 557.3  | 685.0  | 908.7  | 926.4  | 784.4  | 635.3  | 589.2  | 585.7  |
| 62.5° | 3396.8 | 1174.9 | 518.2  | 504.0  | 589.2  | 773.8  | 827.0  | 685.0  | 539.5  | 514.7  | 521.8  |
| 65°   | 1551.1 | 646.0  | 436.6  | 408.2  | 475.6  | 596.3  | 667.3  | 564.4  | 443.6  | 415.3  | 415.3  |
| 67.5° | 567.9  | 440.1  | 372.7  | 323.0  | 333.6  | 386.9  | 433.0  | 365.6  | 294.6  | 252.0  | 262.6  |
| 70°   | 404.7  | 369.1  | 326.5  | 280.4  | 259.1  | 252.0  | 248.4  | 205.9  | 145.6  | 113.6  | 120.7  |
| 72.5° | 326.5  | 305.2  | 273.3  | 237.8  | 202.3  | 170.4  | 145.6  | 106.5  | 67.4   | 46.1   | 42.6   |
| 75°   | 234.3  | 223.6  | 198.8  | 170.4  | 142.0  | 120.7  | 99.4   | 67.4   | 35.5   | 17.8   | 17.8   |
| 77.5° | 120.7  | 120.7  | 117.1  | 106.5  | 88.7   | 71.0   | 56.8   | 39.1   | 21.3   | 7.1    | 7.1    |
| 80°   | 92.3   | 99.4   | 103.0  | 92.3   | 81.7   | 63.9   | 46.1   | 28.4   | 14.2   | 3.5    | 3.5    |
| 82.5° | 88.7   | 103.0  | 110.0  | 95.8   | 81.7   | 60.4   | 46.1   | 28.4   | 14.2   | 3.5    | 3.5    |
| 85°   | 21.3   | 21.3   | 31.9   | 35.5   | 46.1   | 49.7   | 39.1   | 24.8   | 10.6   | 3.5    | 3.5    |
| 87.5° | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 7.1    | 3.5    | 3.5    | 3.5    | 3.5    | 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)