

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: P458200

Luminaire Tested: **GALN-SA9C-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52162 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

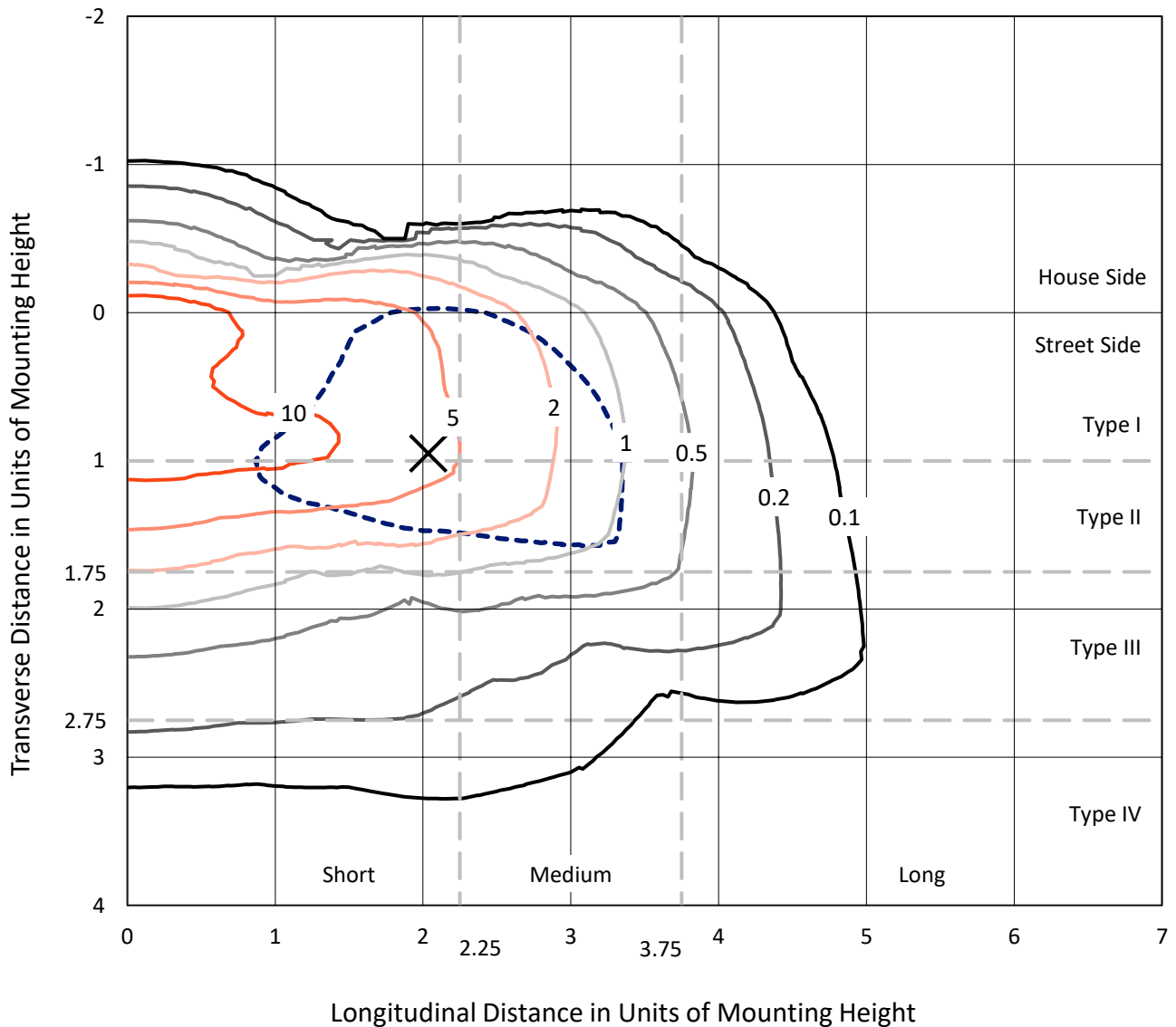
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

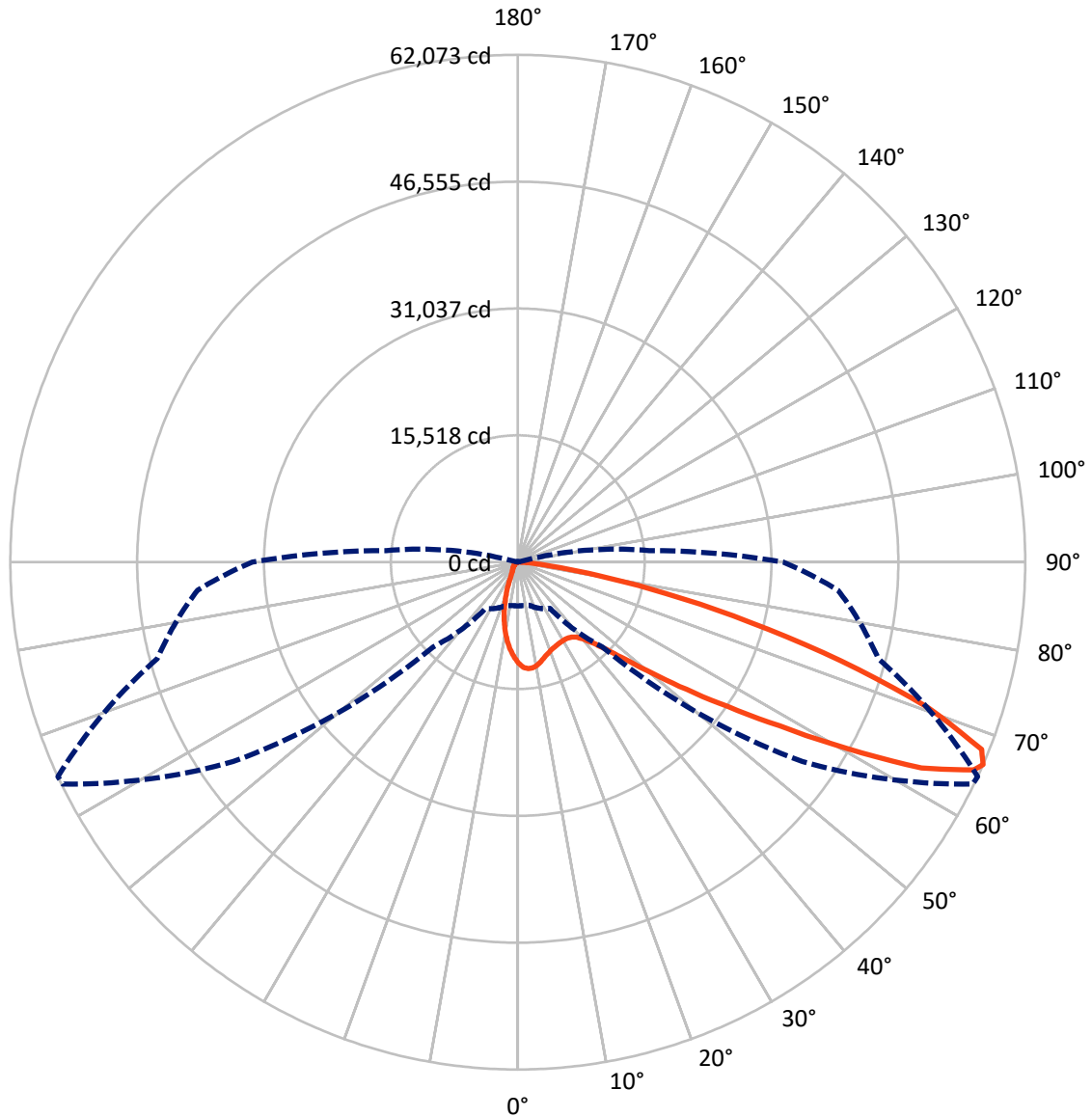
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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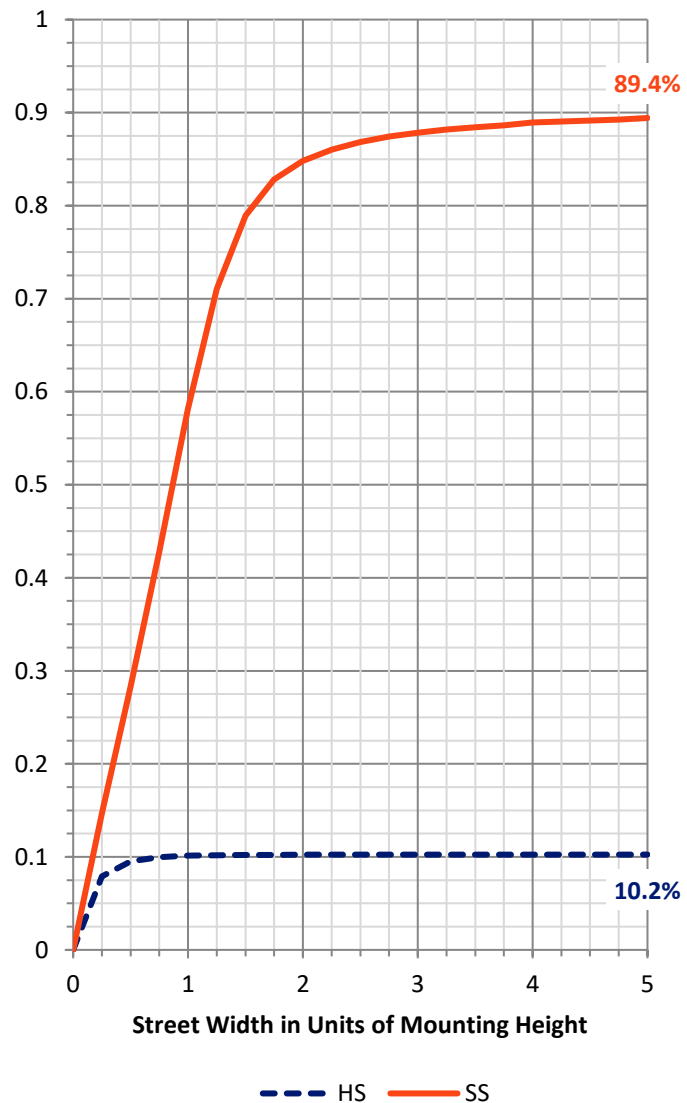
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5394.3   | 0.0    | 5394.3  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 46767.7  | 0.0    | 46767.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 52162.0  | 0.0    | 52162.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1011.6  | 1.9       |
| 10°-20°   | 2204.2  | 4.2       |
| 20°-30°   | 3157.5  | 6.1       |
| 30°-40°   | 4611.9  | 8.8       |
| 40°-50°   | 7733.3  | 14.8      |
| 50°-60°   | 12905.6 | 24.7      |
| 60°-70°   | 13698.9 | 26.3      |
| 70°-80°   | 6204.2  | 11.9      |
| 80°-90°   | 634.8   | 1.2       |
| 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°    | 52162.0 | 100.0     |
| 0°-180°   | 52162.0 | 100.0     |

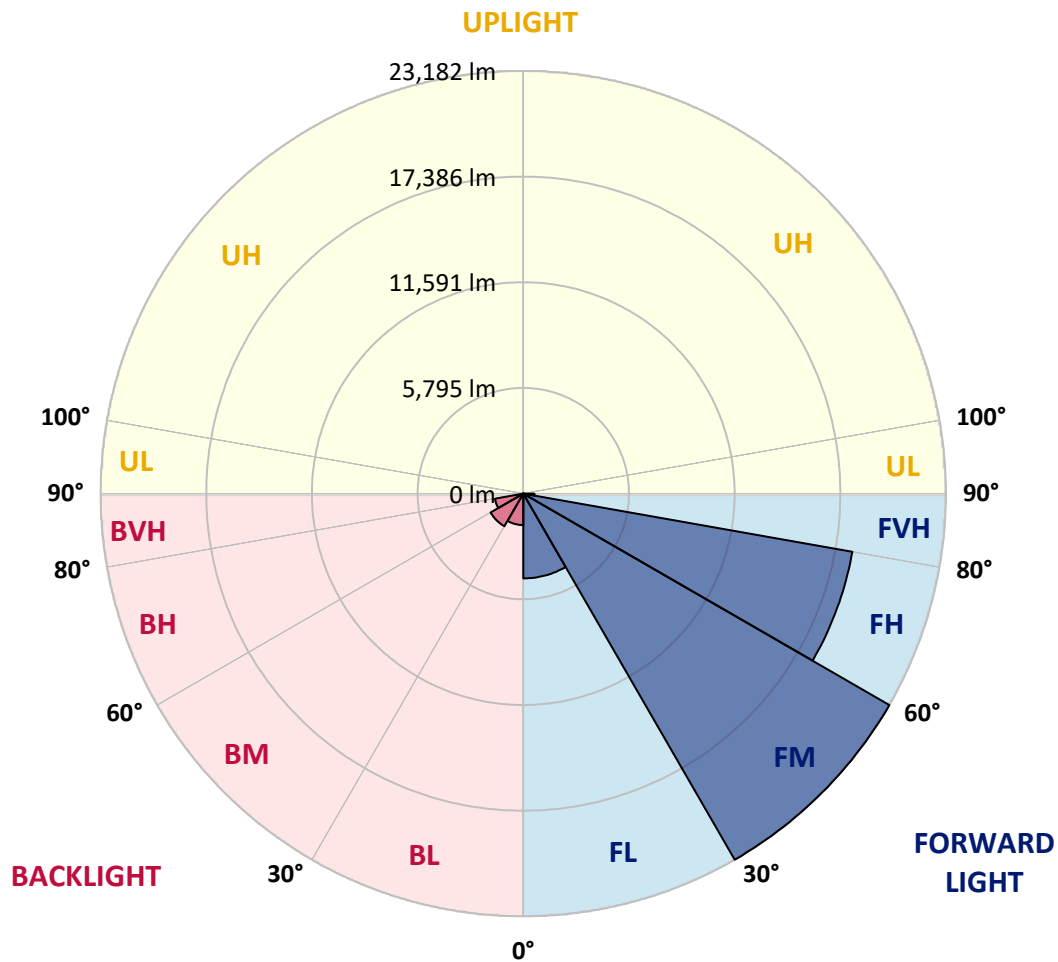


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4647.8  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 23182.0 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 18323.3 | 35.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 614.6   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1725.6  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2068.8  | 4.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1579.7  | 3.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 20.2    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 |
| 2.5°  | 13035.4 | 13049.5 | 13067.1 | 13091.8 | 13109.4 | 13056.5 | 12982.5 | 12898.0 | 12880.4 | 12700.7 | 12482.3 |
| 5°    | 12337.8 | 12359.0 | 12514.0 | 12598.5 | 12788.8 | 12961.4 | 13070.6 | 13084.7 | 13077.7 | 12908.6 | 12559.8 |
| 7.5°  | 11344.3 | 11404.2 | 11555.7 | 11703.7 | 12059.5 | 12387.1 | 12774.7 | 13046.0 | 13063.6 | 13017.8 | 12584.4 |
| 10°   | 10537.5 | 10576.3 | 10653.8 | 10946.2 | 11242.1 | 11742.4 | 12285.0 | 12795.8 | 12838.1 | 13021.3 | 12563.3 |
| 12.5° | 9906.9  | 9963.3  | 10058.4 | 10283.9 | 10639.7 | 11111.8 | 11728.3 | 12415.3 | 12503.4 | 12954.4 | 12503.4 |
| 15°   | 9466.5  | 9494.7  | 9589.8  | 9811.8  | 10157.0 | 10593.9 | 11217.5 | 12017.2 | 12094.7 | 12866.3 | 12492.8 |
| 17.5° | 9258.7  | 9290.4  | 9357.3  | 9533.5  | 9818.8  | 10224.0 | 10833.5 | 11696.6 | 11795.3 | 12809.9 | 12531.6 |
| 20°   | 9315.0  | 9343.2  | 9346.7  | 9438.3  | 9632.1  | 9973.8  | 10551.6 | 11397.2 | 11524.0 | 12774.7 | 12595.0 |
| 22.5° | 9635.6  | 9639.1  | 9596.9  | 9554.6  | 9621.5  | 9868.1  | 10379.0 | 11206.9 | 11337.3 | 12767.6 | 12669.0 |
| 25°   | 10114.8 | 10125.3 | 10054.9 | 9906.9  | 9773.0  | 9899.9  | 10340.2 | 11083.6 | 11199.9 | 12750.0 | 12714.8 |
| 27.5° | 10777.1 | 10773.6 | 10752.4 | 10505.8 | 10125.3 | 10040.8 | 10371.9 | 11016.7 | 11115.3 | 12700.7 | 12732.4 |
| 30°   | 11703.7 | 11675.5 | 11629.7 | 11351.4 | 10770.1 | 10382.5 | 10505.8 | 10974.4 | 11066.0 | 12630.2 | 12686.6 |
| 32.5° | 12616.1 | 12721.8 | 12714.8 | 12450.6 | 11724.8 | 10992.0 | 10784.1 | 11030.8 | 11097.7 | 12584.4 | 12619.7 |
| 35°   | 13680.1 | 13676.6 | 13947.9 | 13849.2 | 13000.2 | 11770.6 | 11259.8 | 11217.5 | 11270.3 | 12616.1 | 12588.0 |
| 37.5° | 14666.6 | 14758.2 | 15181.0 | 15283.1 | 14508.0 | 12869.8 | 11932.7 | 11619.1 | 11636.7 | 12831.1 | 12665.5 |
| 40°   | 15896.1 | 16072.3 | 16702.9 | 17044.7 | 16361.2 | 14501.0 | 12926.2 | 12355.4 | 12359.0 | 13359.5 | 12957.9 |
| 42.5° | 17481.5 | 17759.8 | 18348.2 | 18918.9 | 18552.5 | 16431.6 | 14416.4 | 13521.6 | 13514.5 | 14289.6 | 13627.3 |
| 45°   | 19408.6 | 19602.4 | 20271.8 | 21177.2 | 20944.7 | 19126.8 | 16586.7 | 15328.9 | 15237.3 | 15815.1 | 14814.6 |
| 47.5° | 21071.5 | 21335.8 | 22015.7 | 23048.0 | 24104.9 | 22417.4 | 19179.6 | 17812.7 | 17752.8 | 18242.5 | 16850.9 |
| 50°   | 21797.3 | 22029.8 | 22745.0 | 24193.0 | 26754.3 | 26736.7 | 23040.9 | 21437.9 | 21335.8 | 21600.0 | 20000.5 |
| 52.5° | 21001.1 | 21219.5 | 21941.7 | 23745.6 | 28001.4 | 32000.1 | 28635.6 | 25986.2 | 25862.9 | 25524.7 | 23763.2 |
| 55°   | 18274.2 | 18453.9 | 19521.4 | 21593.0 | 27522.3 | 35509.1 | 36344.1 | 31605.6 | 31126.4 | 29812.3 | 28022.6 |
| 57.5° | 14550.3 | 14458.7 | 15121.1 | 17527.3 | 24710.9 | 36685.8 | 44256.9 | 38605.9 | 37749.8 | 33518.6 | 31626.7 |
| 60°   | 10083.1 | 10364.9 | 10632.7 | 12218.0 | 18580.7 | 34646.0 | 49178.7 | 47406.6 | 46279.2 | 37165.0 | 35079.3 |
| 62.5° | 7412.6  | 7599.3  | 7775.4  | 8508.2  | 11682.5 | 27663.2 | 50048.9 | 56446.8 | 55446.2 | 41036.8 | 38373.4 |
| 65°   | 5862.4  | 5876.5  | 5947.0  | 6669.2  | 7697.9  | 17988.8 | 45867.0 | 61544.7 | 61287.5 | 44764.3 | 39708.6 |
| 66°   | 5341.0  | 5344.5  | 5453.7  | 6228.8  | 6908.8  | 14649.0 | 42516.5 | 61932.2 | 62073.1 | 45659.1 | 39317.6 |
| 67.5° | 4668.1  | 4654.0  | 4812.5  | 5598.2  | 6292.2  | 10562.2 | 36520.2 | 60360.9 | 61195.9 | 46346.1 | 37911.9 |
| 70°   | 3618.2  | 3600.6  | 3794.4  | 4696.3  | 5795.5  | 7046.2  | 24274.0 | 51828.0 | 53173.8 | 44940.4 | 33543.2 |
| 72.5° | 2409.8  | 2423.9  | 2755.0  | 3706.3  | 5531.2  | 6204.1  | 14603.2 | 39426.8 | 41329.3 | 37112.1 | 26387.9 |
| 75°   | 1405.7  | 1430.4  | 1807.3  | 2755.0  | 4802.0  | 5915.3  | 8265.1  | 28114.2 | 29329.6 | 25626.9 | 16438.7 |
| 77.5° | 736.3   | 746.9   | 1011.1  | 1817.9  | 3681.6  | 5492.5  | 5506.6  | 17960.7 | 18531.4 | 12454.1 | 6507.1  |
| 80°   | 391.1   | 380.5   | 542.6   | 1095.7  | 2533.1  | 4823.1  | 4467.3  | 9508.8  | 9885.8  | 3699.2  | 1645.3  |
| 82.5° | 148.0   | 162.1   | 288.9   | 718.7   | 1497.3  | 3463.2  | 3847.2  | 4203.0  | 4072.7  | 813.8   | 690.5   |
| 85°   | 28.2    | 35.2    | 123.3   | 426.3   | 753.9   | 1448.0  | 2836.1  | 2061.0  | 1909.5  | 306.5   | 398.1   |
| 87.5° | 3.5     | 7.0     | 35.2    | 102.2   | 109.2   | 489.7   | 838.5   | 570.7   | 493.2   | 112.7   | 165.6   |
| 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°    | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 |
| 2.5°  | 12376.6 | 12281.5 | 11964.4 | 11650.8 | 11330.2 | 11041.3 | 10844.0 | 10523.4 | 10442.4 | 10326.1 | 10259.2 |
| 5°    | 12351.9 | 12130.0 | 11520.5 | 10854.6 | 10234.5 | 9565.2  | 9054.3  | 8561.1  | 8296.9  | 8163.0  | 8113.7  |
| 7.5°  | 12281.5 | 11929.1 | 10977.9 | 9935.1  | 8941.6  | 7941.0  | 7070.8  | 6408.5  | 5982.2  | 5689.8  | 5492.5  |
| 10°   | 12140.5 | 11654.3 | 10347.3 | 8913.4  | 7412.6  | 6091.4  | 4988.7  | 4150.2  | 3501.9  | 3297.6  | 3304.6  |
| 12.5° | 11996.1 | 11347.8 | 9642.7  | 7779.0  | 5918.8  | 4252.4  | 3082.7  | 2420.4  | 2110.3  | 2008.2  | 1987.0  |
| 15°   | 11862.2 | 11055.4 | 8952.1  | 6679.8  | 4407.4  | 2755.0  | 1987.0  | 1754.5  | 1669.9  | 1652.3  | 1648.8  |
| 17.5° | 11791.7 | 10784.1 | 8215.8  | 5422.0  | 3075.6  | 1870.8  | 1592.4  | 1529.0  | 1504.4  | 1486.7  | 1479.7  |
| 20°   | 11731.9 | 10548.1 | 7511.2  | 4245.3  | 2103.3  | 1532.5  | 1426.8  | 1367.0  | 1324.7  | 1307.1  | 1296.5  |
| 22.5° | 11689.6 | 10305.0 | 6781.9  | 3287.0  | 1610.0  | 1359.9  | 1264.8  | 1187.3  | 1127.4  | 1106.2  | 1092.2  |
| 25°   | 11626.2 | 10037.3 | 6045.6  | 2402.7  | 1356.4  | 1208.4  | 1099.2  | 1007.6  | 930.1   | 891.3   | 884.3   |
| 27.5° | 11534.6 | 9734.3  | 5238.8  | 1779.2  | 1211.9  | 1074.5  | 940.7   | 827.9   | 750.4   | 708.1   | 711.7   |
| 30°   | 11386.6 | 9417.2  | 4432.0  | 1412.8  | 1095.7  | 937.1   | 792.7   | 683.5   | 609.5   | 577.8   | 574.3   |
| 32.5° | 11210.4 | 9033.2  | 3692.2  | 1211.9  | 990.0   | 813.8   | 662.3   | 567.2   | 510.8   | 486.2   | 482.7   |
| 35°   | 11044.9 | 8645.6  | 2938.2  | 1088.6  | 880.8   | 701.1   | 556.6   | 475.6   | 433.3   | 412.2   | 415.7   |
| 37.5° | 10953.3 | 8300.4  | 2290.0  | 990.0   | 792.7   | 602.4   | 479.1   | 408.7   | 369.9   | 352.3   | 348.8   |
| 40°   | 11013.1 | 8018.5  | 1821.4  | 901.9   | 694.0   | 517.9   | 412.2   | 352.3   | 313.6   | 288.9   | 288.9   |
| 42.5° | 11295.0 | 7895.2  | 1469.1  | 817.4   | 602.4   | 447.4   | 359.4   | 303.0   | 260.7   | 236.0   | 239.6   |
| 45°   | 12154.6 | 8025.6  | 1229.6  | 739.8   | 517.9   | 387.5   | 310.0   | 250.1   | 211.4   | 193.8   | 190.2   |
| 47.5° | 13581.5 | 8515.3  | 1064.0  | 658.8   | 443.9   | 331.2   | 260.7   | 207.9   | 169.1   | 155.0   | 151.5   |
| 50°   | 16075.8 | 9526.4  | 940.7   | 577.8   | 377.0   | 281.8   | 214.9   | 165.6   | 133.9   | 119.8   | 119.8   |
| 52.5° | 19507.3 | 11731.9 | 852.6   | 486.2   | 317.1   | 239.6   | 176.2   | 133.9   | 105.7   | 95.1    | 91.6    |
| 55°   | 23093.8 | 14057.1 | 806.8   | 408.7   | 264.2   | 197.3   | 140.9   | 105.7   | 81.0    | 70.5    | 66.9    |
| 57.5° | 26542.9 | 15882.0 | 753.9   | 331.2   | 211.4   | 151.5   | 109.2   | 81.0    | 56.4    | 49.3    | 45.8    |
| 60°   | 29851.1 | 17358.2 | 641.2   | 264.2   | 165.6   | 109.2   | 81.0    | 56.4    | 38.8    | 31.7    | 31.7    |
| 62.5° | 32810.4 | 18217.8 | 503.8   | 211.4   | 126.8   | 77.5    | 52.8    | 42.3    | 28.2    | 21.1    | 21.1    |
| 65°   | 33155.7 | 17101.0 | 380.5   | 162.1   | 91.6    | 49.3    | 31.7    | 31.7    | 21.1    | 14.1    | 14.1    |
| 66°   | 32461.7 | 16153.3 | 334.7   | 148.0   | 81.0    | 42.3    | 28.2    | 24.7    | 17.6    | 10.6    | 10.6    |
| 67.5° | 30911.5 | 14536.2 | 288.9   | 126.8   | 66.9    | 31.7    | 21.1    | 21.1    | 14.1    | 7.0     | 7.0     |
| 70°   | 26708.5 | 11872.8 | 229.0   | 95.1    | 49.3    | 24.7    | 14.1    | 14.1    | 10.6    | 7.0     | 7.0     |
| 72.5° | 20356.4 | 8864.1  | 186.7   | 70.5    | 35.2    | 17.6    | 10.6    | 10.6    | 10.6    | 7.0     | 7.0     |
| 75°   | 12277.9 | 4773.8  | 144.4   | 52.8    | 31.7    | 14.1    | 7.0     | 10.6    | 14.1    | 10.6    | 7.0     |
| 77.5° | 4523.6  | 1624.1  | 112.7   | 42.3    | 24.7    | 14.1    | 7.0     | 7.0     | 14.1    | 10.6    | 10.6    |
| 80°   | 1109.8  | 422.8   | 81.0    | 35.2    | 24.7    | 14.1    | 7.0     | 7.0     | 14.1    | 14.1    | 14.1    |
| 82.5° | 514.4   | 179.7   | 56.4    | 31.7    | 24.7    | 14.1    | 7.0     | 7.0     | 10.6    | 14.1    | 14.1    |
| 85°   | 295.9   | 84.6    | 45.8    | 35.2    | 24.7    | 14.1    | 7.0     | 7.0     | 10.6    | 14.1    | 14.1    |
| 87.5° | 119.8   | 42.3    | 42.3    | 35.2    | 28.2    | 17.6    | 7.0     | 7.0     | 7.0     | 10.6    | 10.6    |
| 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)