

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: P458290

Luminaire Tested: **GALN-SA9D-722-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-722-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51099 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

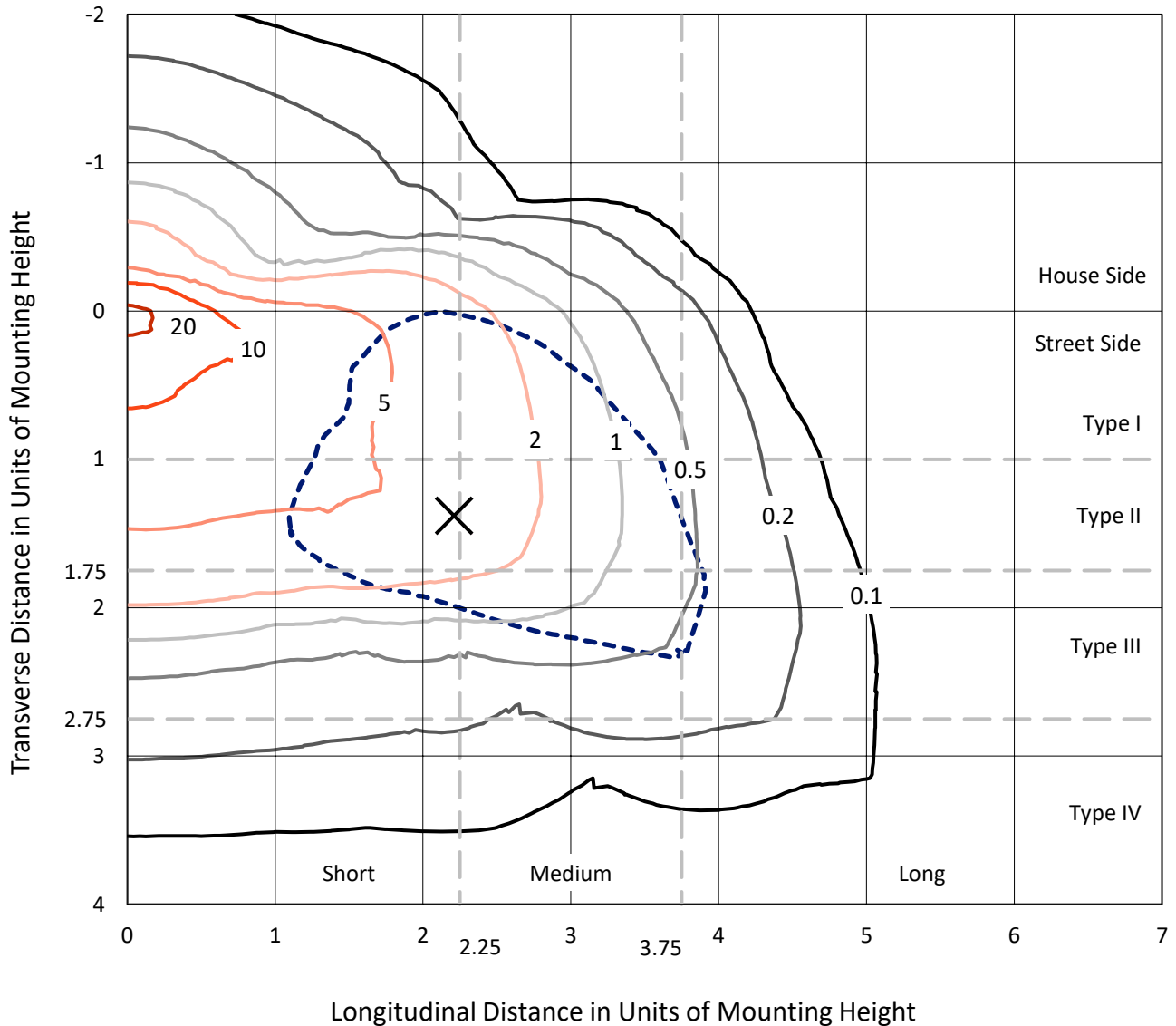
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

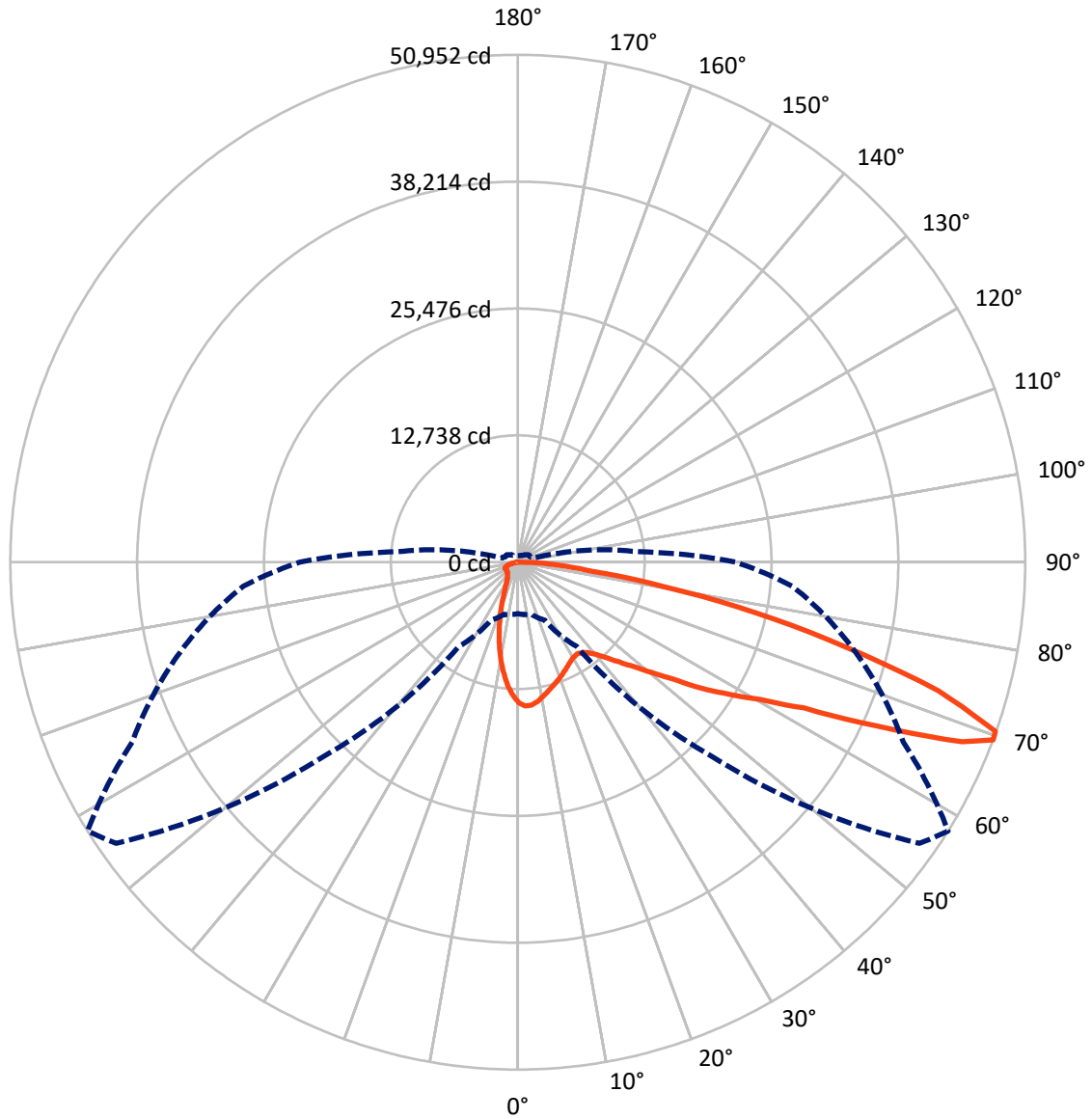
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7488.6   | 0.0    | 7488.6  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 43610.5  | 0.0    | 43610.5 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 51099.0  | 0.0    | 51099.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1199.2  | 2.3       |
| 10°-20°   | 2633.2  | 5.2       |
| 20°-30°   | 3402.2  | 6.7       |
| 30°-40°   | 4418.8  | 8.6       |
| 40°-50°   | 6424.2  | 12.6      |
| 50°-60°   | 10251.0 | 20.1      |
| 60°-70°   | 13694.0 | 26.8      |
| 70°-80°   | 7894.1  | 15.4      |
| 80°-90°   | 1182.4  | 2.3       |
| 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°    | 51099.0 | 100.0     |
| 0°-180°   | 51099.0 | 100.0     |

**Coefficient of Utilization**



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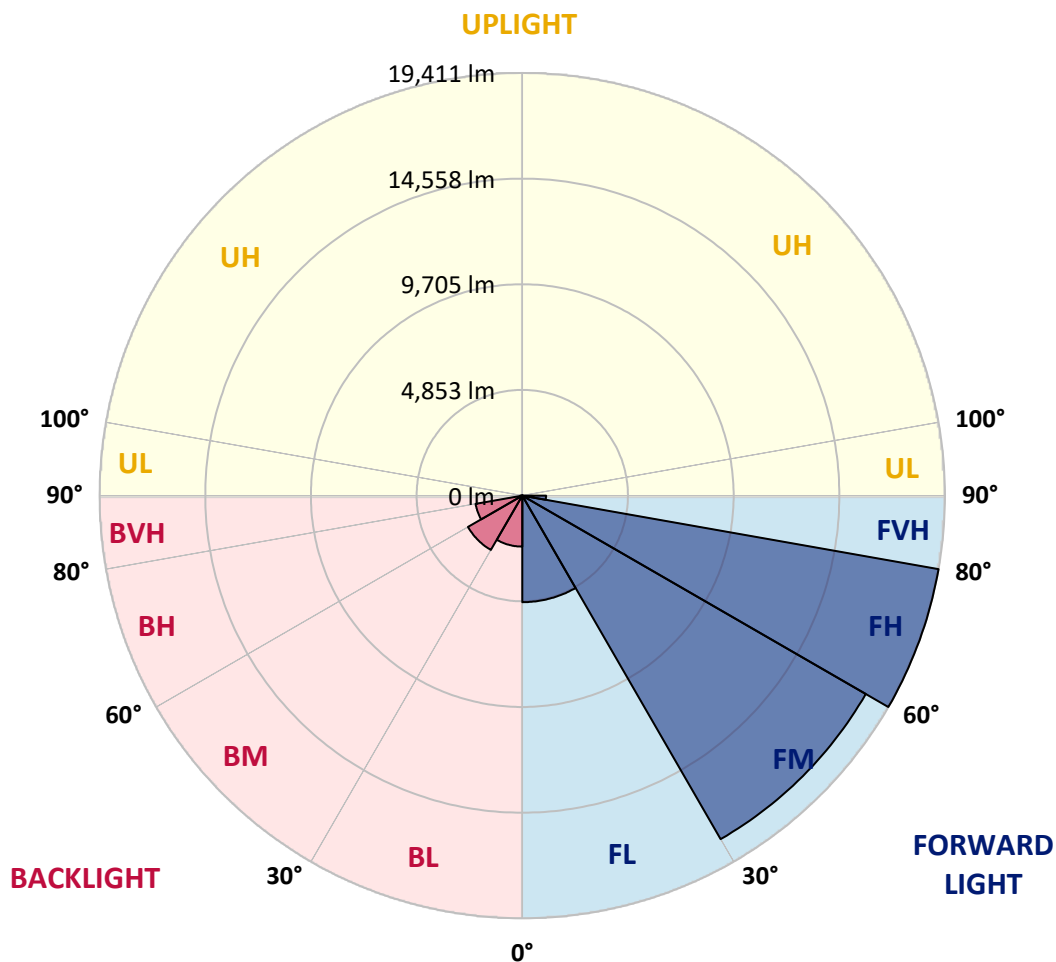
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4894.0  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 18214.1 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 19410.6 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1091.8  | 2.1       |                         |      | G5      |
| BL   | (0°-30°)    | 2340.6  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2879.8  | 5.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2177.5  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 90.6    | 0.2       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 |
| 2.5°  | 14645.1 | 14685.0 | 14673.6 | 14659.4 | 14636.6 | 14573.9 | 14471.3 | 14454.2 | 14388.7 | 14249.0 | 14075.2 |
| 5°    | 14420.0 | 14454.2 | 14457.0 | 14477.0 | 14505.5 | 14494.1 | 14420.0 | 14411.5 | 14314.6 | 14126.5 | 13835.8 |
| 7.5°  | 13647.7 | 13693.3 | 13793.0 | 13904.2 | 14003.9 | 14098.0 | 14120.8 | 14135.0 | 14075.2 | 13858.6 | 13471.0 |
| 10°   | 12778.5 | 12824.1 | 12869.7 | 13035.0 | 13280.1 | 13513.8 | 13707.6 | 13733.2 | 13747.4 | 13548.0 | 13074.9 |
| 12.5° | 11815.3 | 11909.3 | 12006.2 | 12251.3 | 12579.0 | 12946.7 | 13288.6 | 13342.8 | 13439.7 | 13288.6 | 12732.9 |
| 15°   | 10997.4 | 11094.3 | 11233.9 | 11453.4 | 11849.5 | 12379.5 | 12861.2 | 12949.5 | 13140.4 | 13063.5 | 12413.7 |
| 17.5° | 10430.3 | 10464.5 | 10561.4 | 10812.2 | 11239.6 | 11798.2 | 12442.2 | 12618.9 | 12923.9 | 12903.9 | 12140.2 |
| 20°   | 9982.9  | 10025.6 | 10085.5 | 10239.3 | 10683.9 | 11273.8 | 12051.8 | 12279.8 | 12693.0 | 12761.4 | 11869.4 |
| 22.5° | 9794.8  | 9826.1  | 9817.6  | 9900.2  | 10202.3 | 10795.1 | 11655.7 | 11926.4 | 12487.8 | 12664.5 | 11618.6 |
| 25°   | 9806.2  | 9834.7  | 9791.9  | 9772.0  | 9951.5  | 10373.3 | 11242.5 | 11587.3 | 12322.5 | 12599.0 | 11390.7 |
| 27.5° | 9997.1  | 10017.1 | 9937.3  | 9857.5  | 9871.7  | 10111.1 | 10900.5 | 11282.4 | 12182.9 | 12627.5 | 11199.7 |
| 30°   | 10253.6 | 10290.6 | 10239.3 | 10142.4 | 10037.0 | 10048.4 | 10681.1 | 11057.2 | 12117.4 | 12727.2 | 11108.5 |
| 32.5° | 10584.2 | 10618.4 | 10595.6 | 10518.6 | 10381.8 | 10230.8 | 10626.9 | 10974.6 | 12123.1 | 12929.6 | 11088.6 |
| 35°   | 10931.8 | 11000.2 | 11037.3 | 11031.6 | 10920.4 | 10658.3 | 10840.6 | 11128.5 | 12259.9 | 13268.7 | 11205.4 |
| 37.5° | 11325.1 | 11382.1 | 11541.7 | 11644.3 | 11541.7 | 11236.8 | 11322.3 | 11521.8 | 12561.9 | 13758.8 | 11461.9 |
| 40°   | 11707.0 | 11792.5 | 12026.2 | 12345.3 | 12305.4 | 12037.6 | 12057.5 | 12188.6 | 13094.8 | 14488.4 | 11963.5 |
| 42.5° | 12106.0 | 12208.6 | 12616.1 | 13089.1 | 13183.2 | 12975.2 | 13029.3 | 13146.1 | 13852.9 | 15500.1 | 12824.1 |
| 45°   | 12618.9 | 12741.5 | 13243.0 | 13832.9 | 14203.4 | 14075.2 | 14229.1 | 14286.1 | 14867.4 | 16816.7 | 13958.3 |
| 47.5° | 13280.1 | 13422.6 | 14041.0 | 14776.2 | 15300.6 | 15417.4 | 15685.3 | 15651.1 | 16124.2 | 18375.5 | 15428.8 |
| 50°   | 14394.4 | 14474.1 | 15058.4 | 15807.9 | 16528.9 | 17056.1 | 17346.7 | 17400.9 | 17683.0 | 19891.6 | 17073.2 |
| 52.5° | 15719.5 | 15790.8 | 16212.5 | 16868.0 | 17771.4 | 18888.5 | 19606.6 | 19430.0 | 19498.3 | 21738.3 | 18996.8 |
| 55°   | 17210.0 | 17329.6 | 17597.5 | 18033.6 | 19204.8 | 20849.2 | 22291.2 | 22333.9 | 21575.9 | 23505.2 | 20840.6 |
| 57.5° | 18364.1 | 18566.5 | 19025.3 | 19646.5 | 21131.3 | 23029.3 | 24967.1 | 24995.6 | 24026.7 | 25391.7 | 22875.4 |
| 60°   | 17782.8 | 18022.2 | 19070.9 | 20584.1 | 23659.1 | 26833.7 | 28164.6 | 28002.2 | 26412.0 | 27540.5 | 25357.5 |
| 62.5° | 15274.9 | 15317.7 | 16842.3 | 19207.7 | 24437.1 | 31923.5 | 32923.8 | 32237.0 | 29595.2 | 30264.9 | 27879.6 |
| 65°   | 9886.0  | 10165.2 | 11373.6 | 14687.9 | 21880.8 | 34747.6 | 41262.3 | 39675.0 | 34058.0 | 33356.9 | 29991.3 |
| 67.5° | 6241.1  | 6169.8  | 6671.4  | 8387.0  | 15049.8 | 32259.8 | 48378.2 | 48127.5 | 39894.4 | 35309.1 | 29486.9 |
| 69°   | 5175.2  | 5255.0  | 5426.0  | 6429.2  | 10356.2 | 27543.3 | 49218.9 | 50951.6 | 42724.2 | 35155.2 | 27654.5 |
| 70°   | 4693.6  | 4730.7  | 4910.2  | 5699.6  | 7990.8  | 23069.2 | 47839.6 | 50874.7 | 43835.7 | 34511.1 | 26326.5 |
| 72.5° | 3724.7  | 3721.8  | 4029.6  | 4742.1  | 5973.2  | 13168.9 | 39281.7 | 44169.1 | 42593.2 | 31513.1 | 21752.5 |
| 75°   | 2829.9  | 2875.5  | 3214.6  | 4012.5  | 5503.0  | 7195.8  | 27412.3 | 34015.2 | 34018.1 | 24890.2 | 13573.6 |
| 77.5° | 2040.5  | 2069.0  | 2465.1  | 3368.5  | 5183.8  | 5833.5  | 18258.7 | 24397.2 | 22935.2 | 11404.9 | 4266.2  |
| 80°   | 1336.6  | 1353.7  | 1655.7  | 2667.4  | 4673.7  | 5503.0  | 10826.4 | 14933.0 | 10817.9 | 3026.5  | 1410.7  |
| 82.5° | 732.4   | 817.9   | 1011.7  | 1727.0  | 3750.3  | 5084.0  | 6580.2  | 7557.7  | 4058.1  | 1348.0  | 735.2   |
| 85°   | 367.6   | 390.4   | 570.0   | 1008.8  | 2450.8  | 4206.3  | 4582.5  | 4334.5  | 2094.6  | 669.7   | 381.9   |
| 87.5° | 108.3   | 136.8   | 236.5   | 390.4   | 994.6   | 2191.5  | 2550.6  | 2288.4  | 806.5   | 242.2   | 79.8    |
| 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°    | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 | 14120.8 |
| 2.5°  | 14003.9 | 13952.6 | 13724.6 | 13519.5 | 13331.4 | 13131.9 | 12963.8 | 12815.6 | 12829.8 | 12832.7 | 12681.6 |
| 5°    | 13684.8 | 13567.9 | 13134.7 | 12730.1 | 12388.1 | 11954.9 | 11584.4 | 11345.1 | 11225.4 | 11065.8 | 11122.8 |
| 7.5°  | 13251.6 | 13026.4 | 12425.1 | 11752.6 | 11122.8 | 10561.4 | 9951.5  | 9532.6  | 9264.7  | 9005.4  | 9039.6  |
| 10°   | 12804.2 | 12442.2 | 11567.3 | 10678.2 | 9863.2  | 8965.5  | 8187.5  | 7520.6  | 7024.8  | 6839.5  | 6717.0  |
| 12.5° | 12345.3 | 11869.4 | 10758.0 | 9575.3  | 8449.7  | 7375.3  | 6272.4  | 5557.1  | 5010.0  | 4719.3  | 4756.3  |
| 15°   | 11926.4 | 11347.9 | 9914.5  | 8472.5  | 7010.5  | 5731.0  | 4630.9  | 3949.8  | 3568.0  | 3488.2  | 3533.8  |
| 17.5° | 11538.9 | 10780.8 | 9125.1  | 7400.9  | 5693.9  | 4297.5  | 3479.6  | 3094.9  | 2941.0  | 2898.2  | 2895.4  |
| 20°   | 11139.9 | 10299.2 | 8238.8  | 6255.3  | 4437.1  | 3331.4  | 2855.5  | 2676.0  | 2647.5  | 2664.6  | 2667.4  |
| 22.5° | 10735.2 | 9703.6  | 7326.8  | 5118.2  | 3533.8  | 2724.4  | 2496.4  | 2448.0  | 2470.8  | 2510.7  | 2516.4  |
| 25°   | 10361.9 | 9179.2  | 6449.1  | 4120.8  | 2821.3  | 2393.8  | 2282.7  | 2282.7  | 2334.0  | 2393.8  | 2396.7  |
| 27.5° | 10054.1 | 8671.9  | 5574.2  | 3271.6  | 2362.5  | 2154.5  | 2117.4  | 2137.4  | 2208.6  | 2254.2  | 2257.0  |
| 30°   | 9800.5  | 8198.9  | 4747.8  | 2621.8  | 2077.5  | 1963.5  | 1955.0  | 1989.2  | 2040.5  | 2083.2  | 2086.1  |
| 32.5° | 9609.5  | 7782.8  | 3975.5  | 2202.9  | 1880.9  | 1818.2  | 1815.3  | 1841.0  | 1869.5  | 1880.9  | 1892.3  |
| 35°   | 9535.4  | 7438.0  | 3268.7  | 1937.9  | 1749.8  | 1709.9  | 1709.9  | 1707.0  | 1718.4  | 1724.1  | 1729.8  |
| 37.5° | 9595.3  | 7173.0  | 2721.6  | 1766.9  | 1652.9  | 1624.4  | 1607.3  | 1590.2  | 1584.5  | 1584.5  | 1587.3  |
| 40°   | 9848.9  | 7033.3  | 2314.0  | 1655.7  | 1584.5  | 1541.7  | 1510.4  | 1490.4  | 1470.5  | 1476.2  | 1481.9  |
| 42.5° | 10387.5 | 7059.0  | 2037.6  | 1581.6  | 1524.6  | 1464.8  | 1419.2  | 1396.4  | 1382.2  | 1399.3  | 1396.4  |
| 45°   | 11245.3 | 7315.4  | 1860.9  | 1530.3  | 1464.8  | 1387.9  | 1345.1  | 1322.3  | 1322.3  | 1348.0  | 1356.5  |
| 47.5° | 12445.1 | 7805.6  | 1766.9  | 1490.4  | 1419.2  | 1328.0  | 1285.3  | 1268.2  | 1273.9  | 1316.6  | 1319.5  |
| 50°   | 13909.9 | 8657.7  | 1749.8  | 1470.5  | 1396.4  | 1285.3  | 1236.8  | 1219.7  | 1234.0  | 1279.6  | 1285.3  |
| 52.5° | 15525.7 | 9754.9  | 1832.4  | 1473.3  | 1376.5  | 1259.6  | 1196.9  | 1171.3  | 1185.5  | 1222.6  | 1234.0  |
| 55°   | 17440.8 | 11128.5 | 2046.2  | 1484.7  | 1348.0  | 1245.4  | 1168.4  | 1111.4  | 1128.5  | 1154.2  | 1157.0  |
| 57.5° | 19395.8 | 12861.2 | 2422.3  | 1487.6  | 1325.2  | 1219.7  | 1120.0  | 1045.9  | 1045.9  | 1063.0  | 1071.5  |
| 60°   | 21783.9 | 14747.7 | 2918.2  | 1490.4  | 1328.0  | 1182.7  | 1054.4  | 971.8   | 960.4   | 968.9   | 971.8   |
| 62.5° | 24154.9 | 16326.5 | 3000.8  | 1481.9  | 1356.5  | 1145.6  | 983.2   | 897.7   | 877.7   | 874.9   | 869.2   |
| 65°   | 25200.8 | 16033.0 | 2459.4  | 1442.0  | 1387.9  | 1122.8  | 926.2   | 826.4   | 792.2   | 780.8   | 780.8   |
| 67.5° | 23496.6 | 13562.2 | 1849.5  | 1387.9  | 1367.9  | 1100.0  | 872.0   | 766.6   | 726.7   | 703.9   | 703.9   |
| 69°   | 21895.0 | 12063.2 | 1661.4  | 1350.8  | 1316.6  | 1063.0  | 837.8   | 735.2   | 686.8   | 661.2   | 652.6   |
| 70°   | 20658.2 | 11031.6 | 1581.6  | 1319.5  | 1268.2  | 1020.2  | 812.2   | 712.5   | 658.3   | 629.8   | 624.1   |
| 72.5° | 16486.1 | 8654.9  | 1385.0  | 1199.8  | 1080.1  | 857.8   | 721.0   | 641.2   | 589.9   | 558.6   | 550.0   |
| 75°   | 9501.2  | 4690.8  | 1148.5  | 1043.0  | 869.2   | 666.9   | 609.9   | 558.6   | 518.7   | 490.2   | 481.6   |
| 77.5° | 2923.9  | 1812.5  | 832.1   | 823.6   | 638.4   | 515.8   | 487.3   | 467.4   | 438.9   | 407.5   | 401.8   |
| 80°   | 1231.1  | 923.3   | 564.3   | 555.7   | 424.6   | 359.1   | 350.5   | 347.7   | 336.3   | 310.6   | 302.1   |
| 82.5° | 675.4   | 521.5   | 393.3   | 342.0   | 256.5   | 208.0   | 216.6   | 219.4   | 210.9   | 185.2   | 168.1   |
| 85°   | 330.6   | 285.0   | 190.9   | 153.9   | 116.8   | 74.1    | 71.2    | 85.5    | 79.8    | 57.0    | 62.7    |
| 87.5° | 65.5    | 79.8    | 51.3    | 22.8    | 11.4    | 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)