

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: STREETWORKS

Report Number: P522886

Luminaire Tested: **GLAN-SA8C-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52923 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

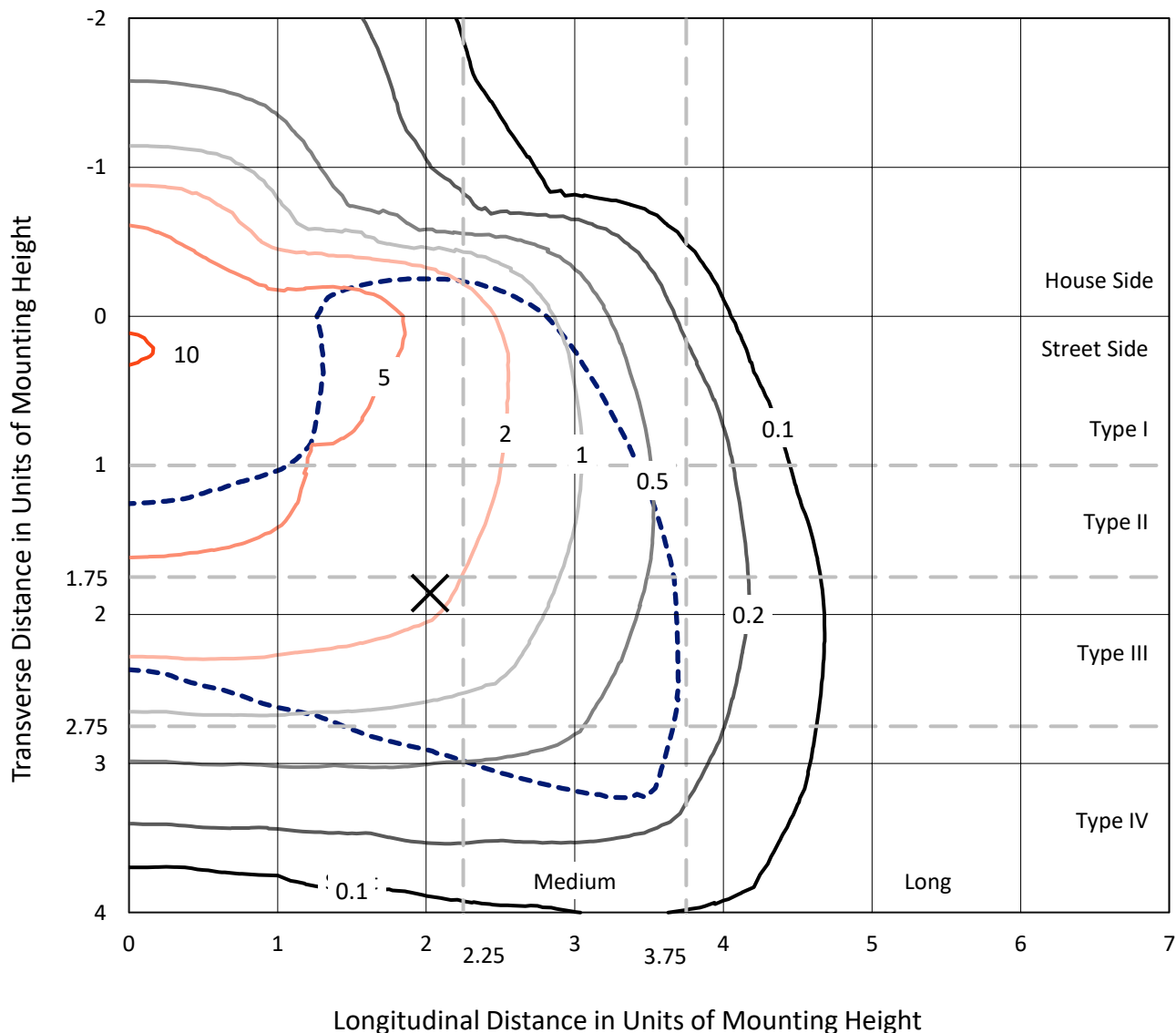
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

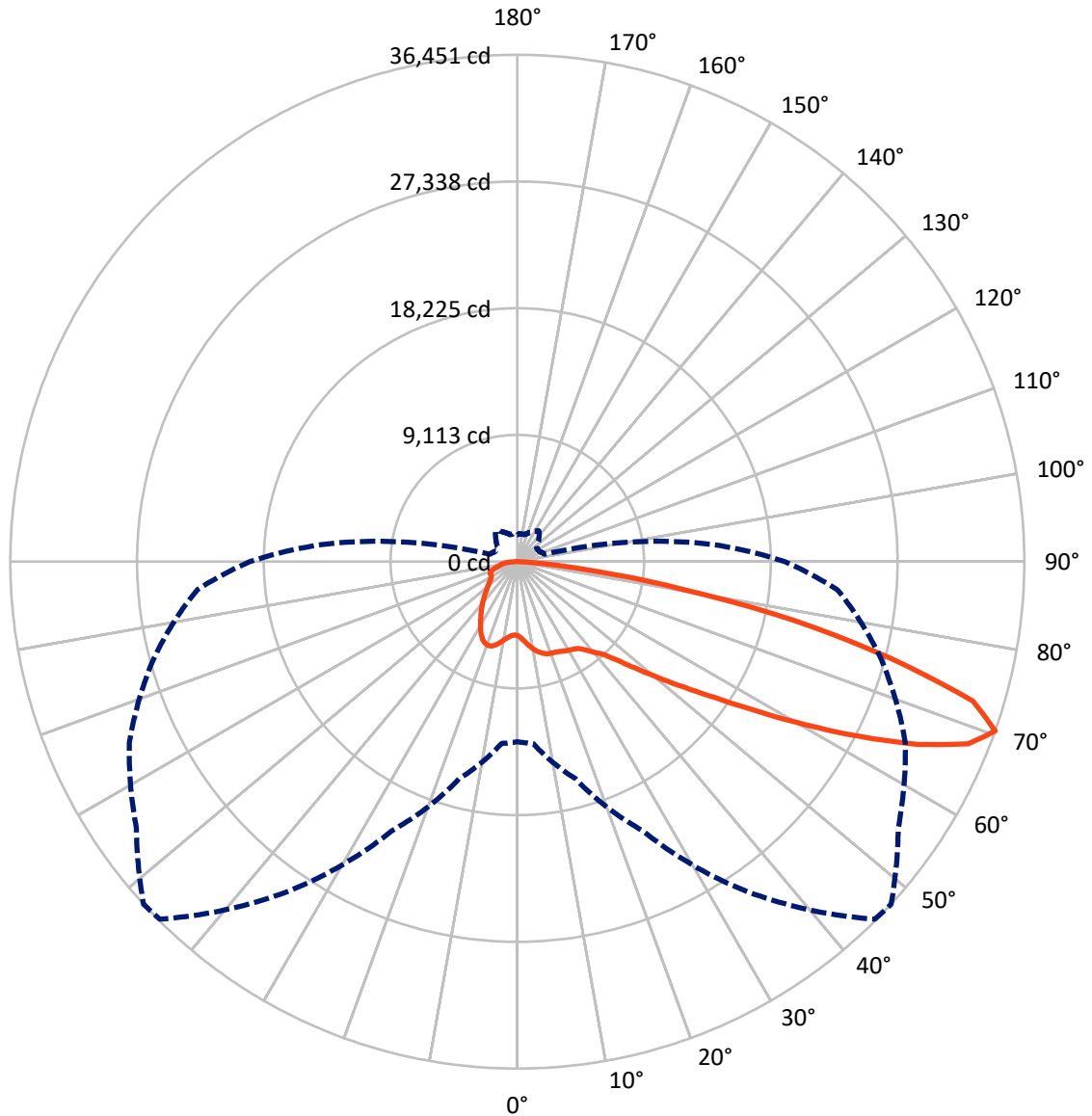
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11982.8  | 0.0    | 11982.8 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 40940.2  | 0.0    | 40940.2 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 52923.0  | 0.0    | 52923.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 547.6   | 1.0       |
| 10°-20°   | 1830.8  | 3.5       |
| 20°-30°   | 3044.6  | 5.8       |
| 30°-40°   | 4315.3  | 8.2       |
| 40°-50°   | 6370.3  | 12.0      |
| 50°-60°   | 11033.6 | 20.8      |
| 60°-70°   | 15585.3 | 29.4      |
| 70°-80°   | 8959.3  | 16.9      |
| 80°-90°   | 1236.2  | 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°    | 52923.0 | 100.0     |
| 0°-180°   | 52923.0 | 100.0     |

**Coefficient of Utilization**



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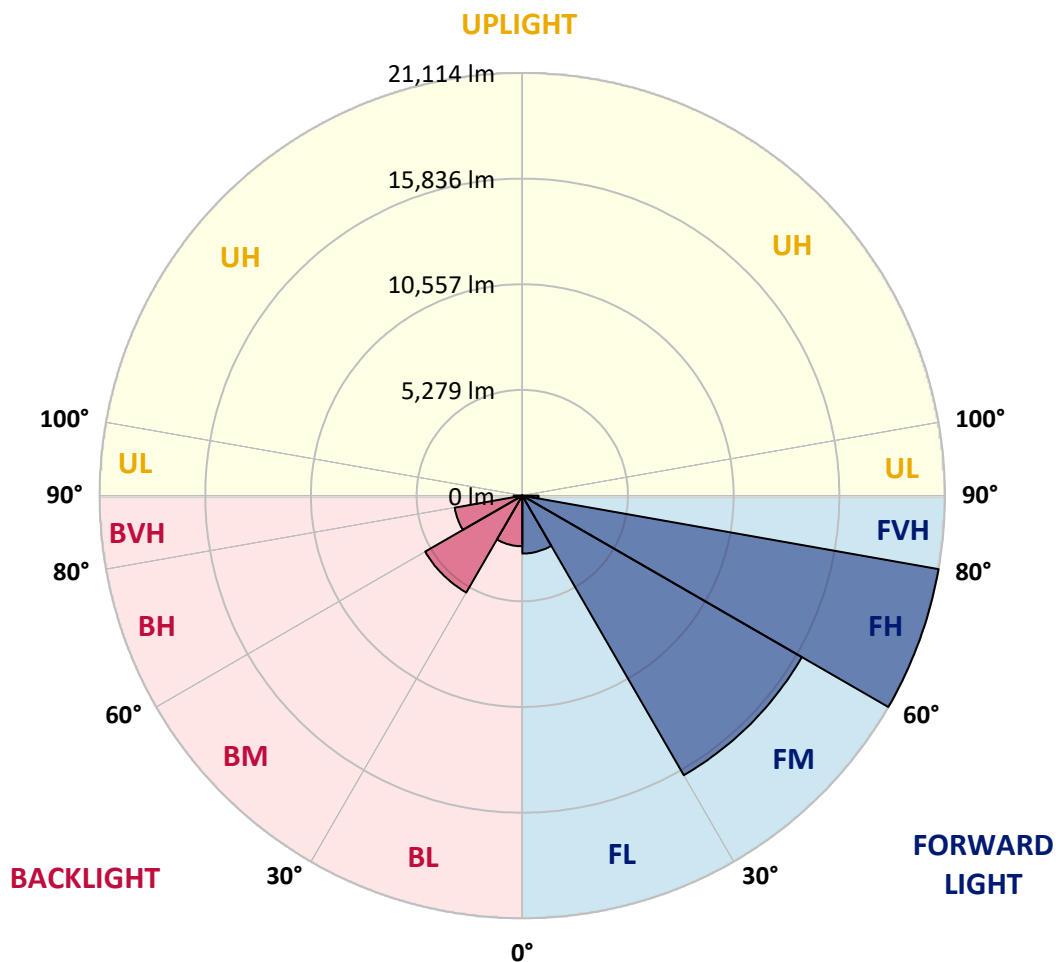
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2894.0  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 16124.6 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 21114.1 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 807.5   | 1.5       |                         |      | G5      |
| BL   | (0°-30°)    | 2529.0  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5594.6  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3430.5  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 428.7   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  | 5312.8  |
| 2.5°  | 5655.5  | 5635.7  | 5632.8  | 5590.4  | 5567.7  | 5525.2  | 5508.2  | 5468.6  | 5420.4  | 5372.3  | 5327.0  |
| 5°    | 6100.1  | 6100.1  | 6080.3  | 6020.8  | 5927.4  | 5831.1  | 5788.6  | 5712.1  | 5576.2  | 5465.8  | 5372.3  |
| 7.5°  | 6556.1  | 6561.7  | 6522.1  | 6434.3  | 6301.2  | 6145.4  | 6105.8  | 5992.5  | 5799.9  | 5638.5  | 5499.7  |
| 10°   | 6949.7  | 6949.7  | 6895.9  | 6777.0  | 6609.9  | 6440.0  | 6400.3  | 6272.9  | 6057.6  | 5856.6  | 5675.3  |
| 12.5° | 7249.9  | 7249.9  | 7179.1  | 7023.4  | 6842.1  | 6689.2  | 6643.9  | 6522.1  | 6321.0  | 6097.3  | 5867.9  |
| 15°   | 7445.3  | 7431.2  | 7351.9  | 7176.3  | 7000.7  | 6867.6  | 6836.4  | 6734.5  | 6550.4  | 6323.9  | 6066.1  |
| 17.5° | 7453.8  | 7448.2  | 7371.7  | 7224.4  | 7071.5  | 6980.9  | 6961.1  | 6893.1  | 6748.7  | 6533.4  | 6261.6  |
| 20°   | 7289.6  | 7300.9  | 7249.9  | 7145.1  | 7071.5  | 7031.9  | 7023.4  | 7000.7  | 6898.8  | 6697.7  | 6425.8  |
| 22.5° | 7114.0  | 7133.8  | 7085.7  | 7029.0  | 7023.4  | 7063.0  | 7068.7  | 7074.3  | 7009.2  | 6813.8  | 6564.6  |
| 25°   | 7071.5  | 7085.7  | 7037.5  | 6986.5  | 7017.7  | 7122.5  | 7145.1  | 7167.8  | 7116.8  | 6952.6  | 6728.8  |
| 27.5° | 7286.7  | 7275.4  | 7182.0  | 7071.5  | 7091.3  | 7232.9  | 7264.1  | 7289.6  | 7264.1  | 7122.5  | 6932.7  |
| 30°   | 7895.6  | 7858.8  | 7671.9  | 7349.0  | 7247.1  | 7346.2  | 7377.4  | 7448.2  | 7448.2  | 7343.4  | 7153.6  |
| 32.5° | 8915.1  | 8844.3  | 8501.7  | 7867.3  | 7513.3  | 7453.8  | 7485.0  | 7601.1  | 7660.6  | 7578.4  | 7371.7  |
| 35°   | 10152.7 | 10079.1 | 9589.2  | 8736.7  | 8000.4  | 7669.1  | 7660.6  | 7790.8  | 7949.4  | 7765.3  | 7496.3  |
| 37.5° | 11396.0 | 11319.5 | 10730.4 | 9773.2  | 8711.2  | 8122.2  | 8071.2  | 8116.5  | 8184.5  | 7847.5  | 7669.1  |
| 40°   | 12639.2 | 12548.6 | 12033.2 | 10931.5 | 9580.7  | 8722.6  | 8589.5  | 8385.6  | 8357.2  | 8116.5  | 8003.2  |
| 42.5° | 13871.1 | 13789.0 | 13528.5 | 12231.4 | 10622.8 | 9308.8  | 9104.9  | 8753.7  | 8861.3  | 8716.9  | 8617.8  |
| 45°   | 15114.4 | 15120.0 | 14842.5 | 13689.9 | 11880.2 | 10390.6 | 10115.9 | 9566.5  | 9821.4  | 9767.6  | 9824.2  |
| 47.5° | 16216.0 | 16201.9 | 16102.8 | 15105.9 | 13440.7 | 11784.0 | 11430.0 | 10792.8 | 11228.9 | 11427.1 | 11860.4 |
| 50°   | 17283.7 | 17275.2 | 17280.9 | 16711.6 | 15253.2 | 13440.7 | 13049.9 | 12381.5 | 13364.2 | 14052.4 | 14828.4 |
| 52.5° | 18813.0 | 18861.1 | 18518.4 | 18368.4 | 17456.4 | 15397.6 | 14967.1 | 14276.1 | 15887.5 | 16972.2 | 18487.3 |
| 55°   | 20347.9 | 20308.3 | 20039.2 | 20195.0 | 19761.7 | 17714.2 | 17263.9 | 16714.5 | 18696.9 | 19883.5 | 22160.4 |
| 57.5° | 21251.3 | 21265.5 | 21540.2 | 22302.0 | 22607.9 | 20602.8 | 20195.0 | 19770.2 | 21854.5 | 22695.6 | 25428.5 |
| 60°   | 22064.1 | 22129.2 | 22919.4 | 24358.0 | 25187.8 | 24151.3 | 23788.8 | 23375.3 | 24751.7 | 25085.9 | 28266.2 |
| 62.5° | 22319.0 | 22520.1 | 23899.2 | 26051.6 | 27702.6 | 28155.7 | 27705.5 | 26793.6 | 27510.1 | 27379.8 | 30189.1 |
| 65°   | 21047.4 | 21322.1 | 23794.5 | 26685.9 | 29948.4 | 31956.3 | 31670.3 | 29976.7 | 29860.6 | 29076.1 | 30503.5 |
| 67.5° | 17700.0 | 17974.7 | 21149.4 | 25354.9 | 30877.3 | 35247.1 | 34961.0 | 32299.0 | 31287.9 | 29234.7 | 28124.6 |
| 70°   | 12950.7 | 13123.5 | 16159.4 | 21347.6 | 29011.0 | 36351.6 | 36450.7 | 33431.8 | 30778.2 | 27079.6 | 23092.1 |
| 72.5° | 7462.3  | 7844.6  | 9971.5  | 15018.1 | 23701.0 | 33559.2 | 34247.4 | 31075.5 | 27555.4 | 22590.9 | 16145.2 |
| 75°   | 3208.7  | 3217.2  | 4610.5  | 8283.6  | 16051.8 | 26974.8 | 27640.3 | 25759.9 | 21639.3 | 15621.3 | 8620.6  |
| 77.5° | 1526.4  | 1554.8  | 2027.7  | 3698.6  | 8835.8  | 18637.4 | 20432.9 | 18198.4 | 13840.0 | 7504.8  | 3256.8  |
| 80°   | 991.2   | 1011.0  | 1240.4  | 1835.1  | 4333.0  | 10806.9 | 12058.7 | 10498.2 | 6105.8  | 2681.9  | 1404.7  |
| 82.5° | 600.4   | 606.0   | 829.8   | 1121.5  | 2384.5  | 4893.7  | 5768.8  | 4556.7  | 2605.4  | 1605.7  | 826.9   |
| 85°   | 365.3   | 368.2   | 504.1   | 693.8   | 1447.2  | 1690.7  | 1736.0  | 1721.9  | 1529.3  | 1050.7  | 441.8   |
| 87.5° | 175.6   | 181.2   | 260.5   | 328.5   | 569.2   | 523.9   | 495.6   | 574.9   | 722.2   | 566.4   | 189.7   |
| 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°    | 5312.8  | 5312.8  | 5312.8 | 5312.8 | 5312.8 | 5312.8 | 5312.8 | 5312.8 | 5312.8 | 5312.8 | 5312.8 |
| 2.5°  | 5307.2  | 5298.7  | 5278.8 | 5270.4 | 5264.7 | 5267.5 | 5264.7 | 5264.7 | 5267.5 | 5267.5 | 5267.5 |
| 5°    | 5332.7  | 5318.5  | 5287.3 | 5287.3 | 5304.3 | 5344.0 | 5380.8 | 5409.1 | 5440.3 | 5437.4 | 5437.4 |
| 7.5°  | 5443.1  | 5417.6  | 5380.8 | 5392.1 | 5434.6 | 5496.9 | 5562.0 | 5624.4 | 5686.7 | 5692.3 | 5689.5 |
| 10°   | 5604.5  | 5579.0  | 5539.4 | 5553.6 | 5621.5 | 5715.0 | 5797.1 | 5887.7 | 5955.7 | 5975.5 | 5969.9 |
| 12.5° | 5788.6  | 5737.6  | 5703.6 | 5743.3 | 5850.9 | 5975.5 | 6054.8 | 6122.8 | 6170.9 | 6199.2 | 6187.9 |
| 15°   | 5975.5  | 5927.4  | 5887.7 | 5969.9 | 6100.1 | 6216.2 | 6255.9 | 6267.2 | 6275.7 | 6304.0 | 6298.4 |
| 17.5° | 6156.8  | 6091.6  | 6077.5 | 6185.1 | 6309.7 | 6360.7 | 6338.0 | 6289.9 | 6253.1 | 6275.7 | 6272.9 |
| 20°   | 6318.2  | 6267.2  | 6261.6 | 6369.2 | 6417.3 | 6369.2 | 6272.9 | 6187.9 | 6122.8 | 6128.4 | 6125.6 |
| 22.5° | 6471.1  | 6431.5  | 6437.1 | 6482.4 | 6406.0 | 6241.7 | 6083.1 | 5967.0 | 5896.2 | 5910.4 | 5918.9 |
| 25°   | 6641.0  | 6601.4  | 6615.6 | 6541.9 | 6289.9 | 6003.8 | 5774.4 | 5675.3 | 5647.0 | 5675.3 | 5695.2 |
| 27.5° | 6861.9  | 6836.4  | 6828.0 | 6544.8 | 6083.1 | 5652.7 | 5392.1 | 5355.3 | 5380.8 | 5443.1 | 5474.3 |
| 30°   | 7099.8  | 7099.8  | 7054.5 | 6496.6 | 5799.9 | 5230.7 | 5004.1 | 5009.8 | 5097.6 | 5185.4 | 5216.5 |
| 32.5° | 7329.2  | 7377.4  | 7235.8 | 6366.3 | 5434.6 | 4820.1 | 4647.3 | 4653.0 | 4729.4 | 4837.1 | 4865.4 |
| 35°   | 7519.0  | 7657.7  | 7391.5 | 6128.4 | 5004.1 | 4474.6 | 4344.3 | 4267.8 | 4270.7 | 4352.8 | 4375.4 |
| 37.5° | 7779.5  | 8037.2  | 7482.1 | 5774.4 | 4545.4 | 4180.0 | 4032.8 | 3899.7 | 3811.9 | 3777.9 | 3777.9 |
| 40°   | 8232.6  | 8612.1  | 7504.8 | 5250.5 | 4112.1 | 3899.7 | 3690.1 | 3531.5 | 3361.6 | 3208.7 | 3180.3 |
| 42.5° | 9000.1  | 9478.7  | 7459.5 | 4647.3 | 3721.2 | 3591.0 | 3387.1 | 3191.7 | 2956.6 | 2741.4 | 2724.4 |
| 45°   | 10359.5 | 10605.8 | 7337.7 | 4021.4 | 3372.9 | 3293.6 | 3095.4 | 2883.0 | 2633.8 | 2441.2 | 2427.0 |
| 47.5° | 12537.3 | 12188.9 | 7176.3 | 3466.4 | 3055.7 | 3033.1 | 2880.1 | 2633.8 | 2384.5 | 2251.4 | 2237.3 |
| 50°   | 15717.6 | 14681.1 | 7153.6 | 3064.2 | 2800.8 | 2812.2 | 2687.6 | 2461.0 | 2242.9 | 2132.5 | 2115.5 |
| 52.5° | 19546.5 | 17691.5 | 7303.7 | 2781.0 | 2577.1 | 2619.6 | 2557.3 | 2347.7 | 2155.2 | 2061.7 | 2044.7 |
| 55°   | 23262.0 | 20398.9 | 7394.4 | 2560.1 | 2367.6 | 2446.8 | 2455.3 | 2279.8 | 2104.2 | 2010.7 | 1999.4 |
| 57.5° | 26278.1 | 22437.9 | 6992.2 | 2359.1 | 2186.3 | 2308.1 | 2370.4 | 2240.1 | 2078.7 | 2007.9 | 1996.6 |
| 60°   | 28376.6 | 23400.8 | 5848.1 | 2180.6 | 2053.2 | 2197.6 | 2339.2 | 2242.9 | 2141.0 | 2149.5 | 2155.2 |
| 62.5° | 29045.0 | 22973.2 | 4386.8 | 2047.5 | 1962.6 | 2160.8 | 2390.2 | 2359.1 | 2254.3 | 2319.4 | 2330.7 |
| 65°   | 27937.7 | 21206.0 | 3180.3 | 1942.8 | 1883.3 | 2186.3 | 2543.1 | 2444.0 | 2214.6 | 2262.8 | 2262.8 |
| 67.5° | 24230.6 | 18269.2 | 2475.2 | 1846.5 | 1792.7 | 2234.4 | 2696.1 | 2435.5 | 2121.2 | 2177.8 | 2126.8 |
| 70°   | 19220.8 | 14131.7 | 2061.7 | 1738.8 | 1696.4 | 2163.6 | 2710.2 | 2347.7 | 2010.7 | 2022.0 | 1925.8 |
| 72.5° | 12755.3 | 9291.8  | 1772.8 | 1636.9 | 1549.1 | 1945.6 | 2594.1 | 2234.4 | 1903.1 | 1838.0 | 1741.7 |
| 75°   | 6250.2  | 4633.2  | 1546.3 | 1509.5 | 1356.5 | 1693.5 | 2435.5 | 2126.8 | 1787.0 | 1685.0 | 1631.2 |
| 77.5° | 2421.4  | 1971.1  | 1319.7 | 1348.0 | 1180.9 | 1492.5 | 2226.0 | 1973.9 | 1634.1 | 1495.3 | 1452.8 |
| 80°   | 1175.3  | 1118.6  | 1081.8 | 1124.3 | 971.4  | 1271.6 | 2033.4 | 1840.8 | 1492.5 | 1339.5 | 1277.2 |
| 82.5° | 730.7   | 691.0   | 829.8  | 875.1  | 747.6  | 1161.1 | 1928.6 | 1727.5 | 1314.0 | 1110.1 | 1059.2 |
| 85°   | 371.0   | 396.5   | 555.1  | 597.6  | 535.2  | 923.2  | 1588.8 | 1297.1 | 948.7  | 787.3  | 793.0  |
| 87.5° | 141.6   | 189.7   | 291.7  | 314.4  | 286.0  | 487.1  | 875.1  | 756.1  | 608.9  | 413.5  | 382.3  |
| 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)