

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: P192265

Luminaire Tested: **GAN-AF-07-LED-U-T3-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-T3-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46196 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B4 - U0 - G5

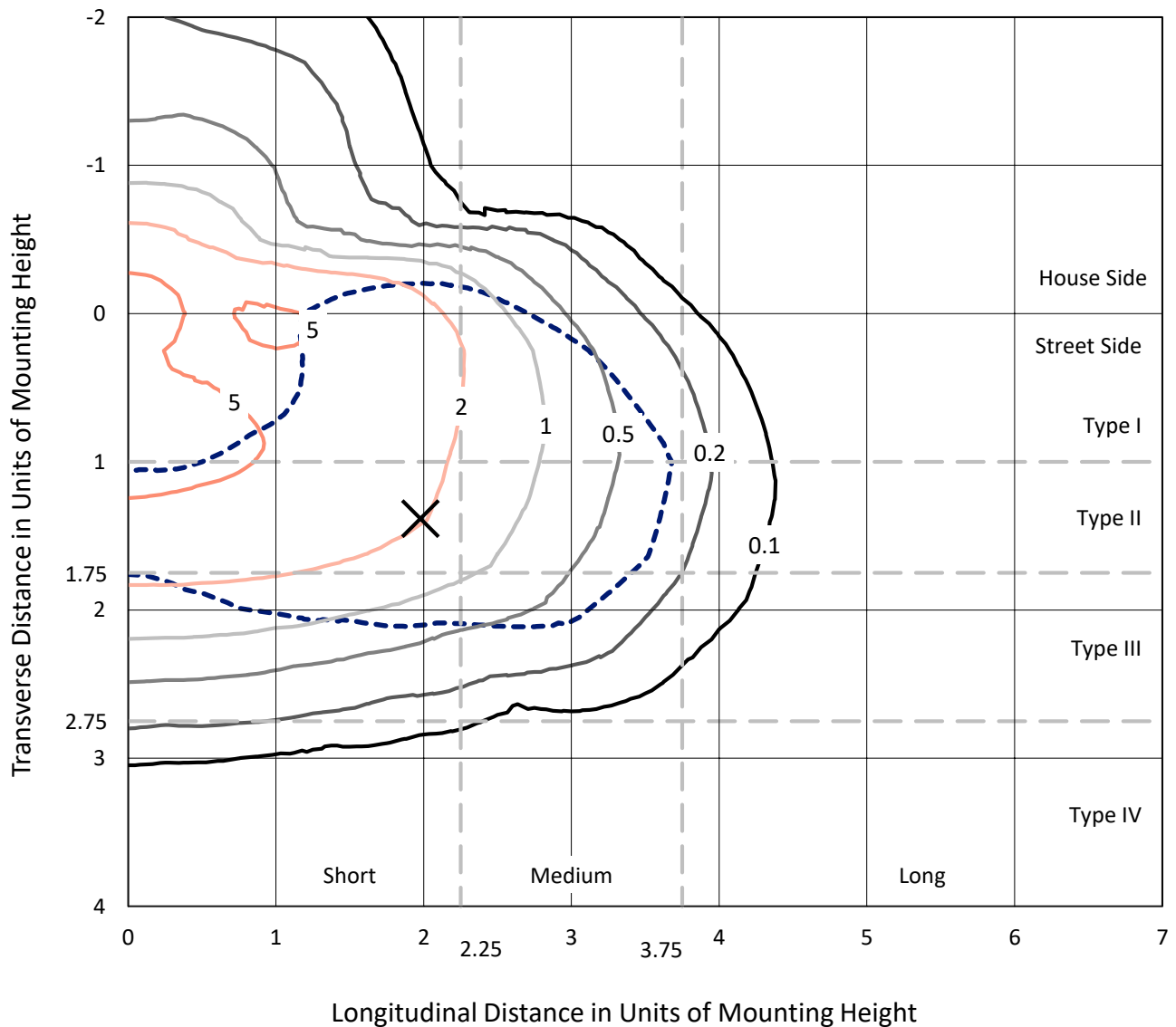
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

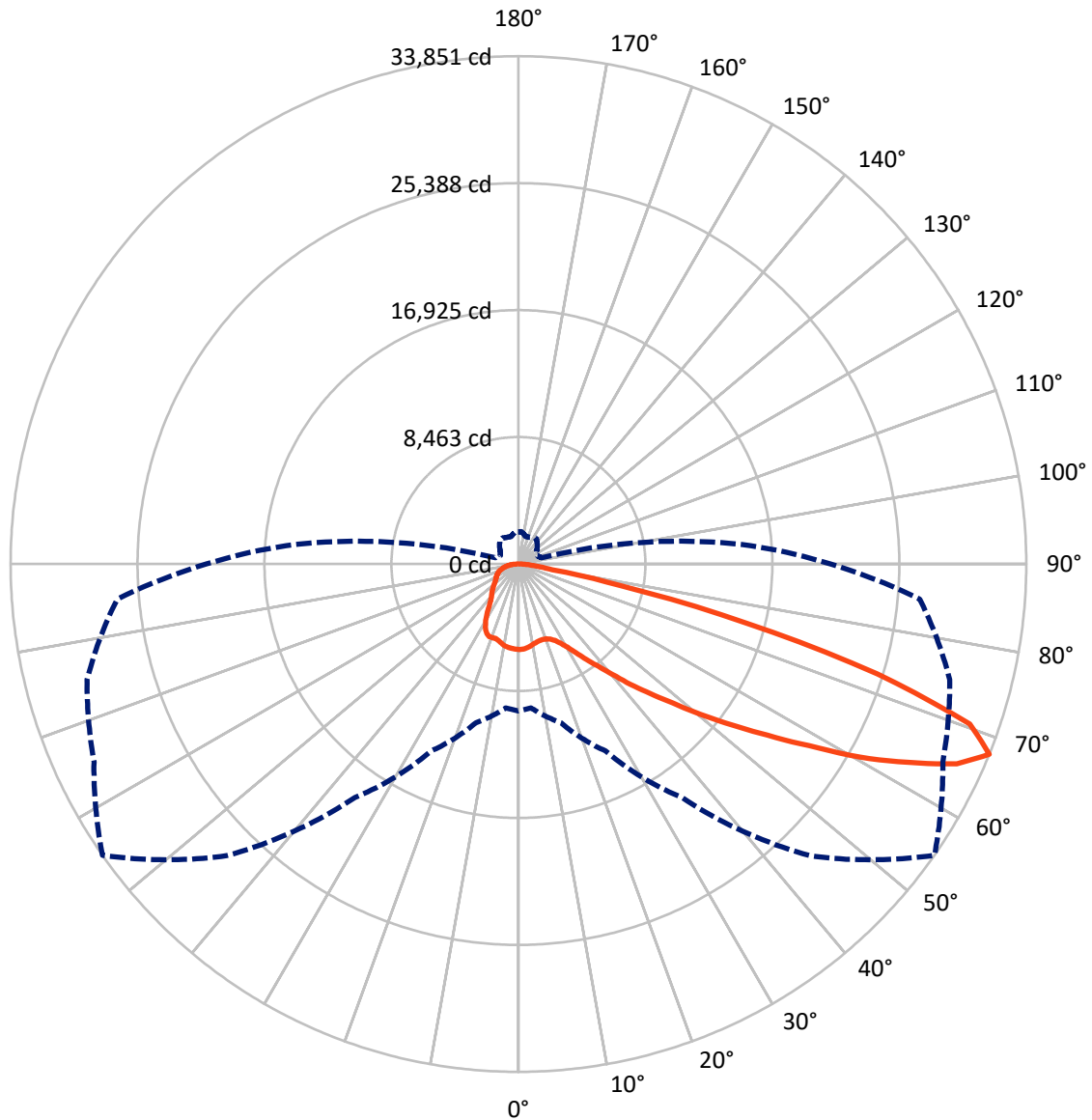
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9979.3   | 0.0    | 9979.3  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 36216.7  | 0.0    | 36216.7 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 46196.0  | 0.0    | 46196.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 531.7   | 1.2       |
| 10°-20°   | 1505.9  | 3.3       |
| 20°-30°   | 2522.5  | 5.5       |
| 30°-40°   | 4148.1  | 9.0       |
| 40°-50°   | 6982.5  | 15.1      |
| 50°-60°   | 10990.0 | 23.8      |
| 60°-70°   | 13115.4 | 28.4      |
| 70°-80°   | 5632.0  | 12.2      |
| 80°-90°   | 767.9   | 1.7       |
| 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°    | 46196.0 | 100.0     |
| 0°-180°   | 46196.0 | 100.0     |

**Coefficient of Utilization**



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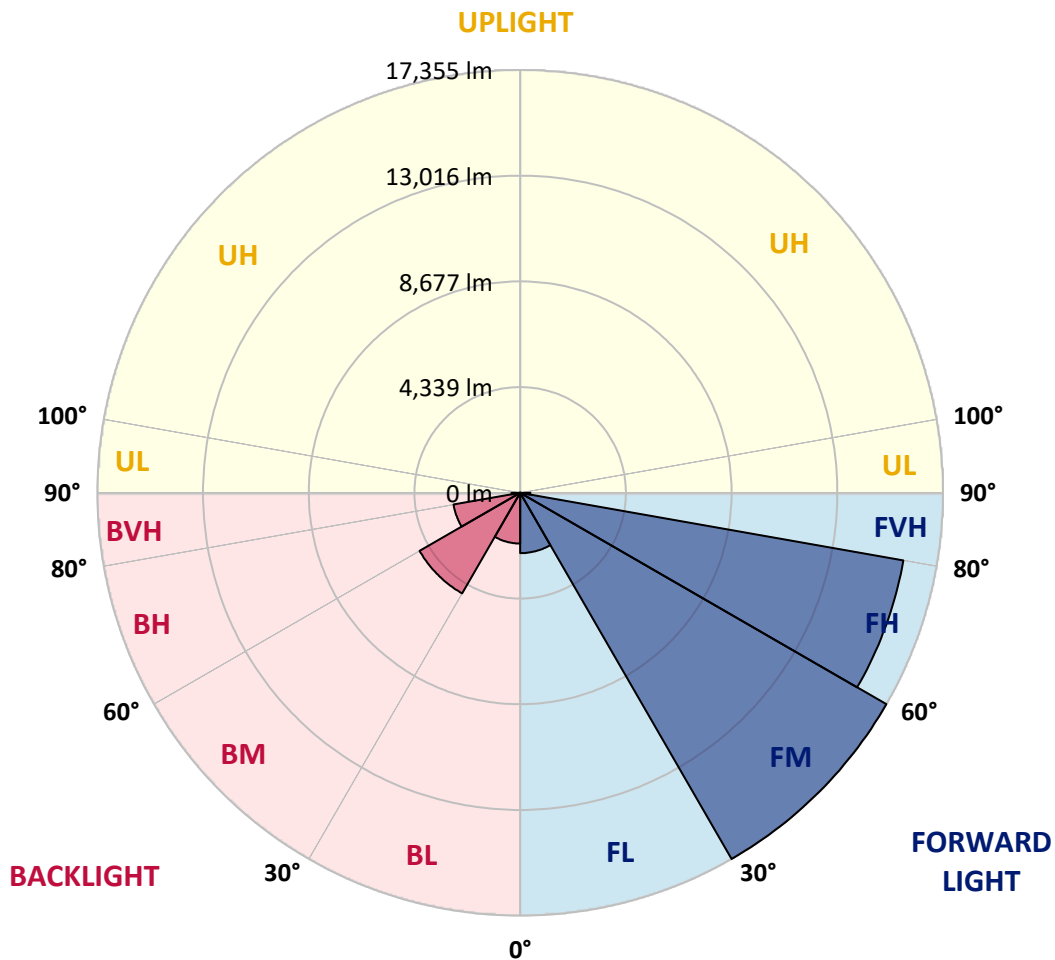
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2476.2  | 5.4       |                         |      |         |
| FM (30°-60°)   | 17354.6 | 37.6      |                         |      |         |
| FH (60°-80°)   | 15970.2 | 34.6      |                         |      | G5      |
| FVH (80°-90°)  | 415.7   | 0.9       |                         |      | G3/500  |
| BL (0°-30°)    | 2083.9  | 4.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 4766.0  | 10.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 2777.2  | 6.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 352.2   | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  | 5696.5  |
| 2.5°  | 5647.4  | 5649.6  | 5654.1  | 5671.9  | 5687.5  | 5683.1  | 5685.3  | 5676.4  | 5674.2  | 5660.8  | 5674.2  |
| 5°    | 5576.0  | 5582.7  | 5584.9  | 5613.9  | 5631.8  | 5636.2  | 5629.5  | 5618.4  | 5605.0  | 5591.6  | 5598.3  |
| 7.5°  | 5413.1  | 5430.9  | 5433.2  | 5473.3  | 5502.3  | 5540.3  | 5542.5  | 5544.7  | 5538.1  | 5529.1  | 5542.5  |
| 10°   | 5310.5  | 5314.9  | 5312.7  | 5341.7  | 5364.0  | 5406.4  | 5430.9  | 5473.3  | 5491.2  | 5495.7  | 5504.6  |
| 12.5° | 5303.8  | 5299.3  | 5292.6  | 5292.6  | 5285.9  | 5303.8  | 5348.4  | 5408.6  | 5451.0  | 5464.4  | 5475.6  |
| 15°   | 5375.2  | 5372.9  | 5350.6  | 5317.2  | 5274.8  | 5261.4  | 5299.3  | 5366.2  | 5422.0  | 5451.0  | 5462.2  |
| 17.5° | 5535.8  | 5522.4  | 5486.7  | 5410.9  | 5319.4  | 5283.7  | 5288.1  | 5343.9  | 5408.6  | 5446.6  | 5457.7  |
| 20°   | 5830.3  | 5830.3  | 5754.5  | 5611.7  | 5448.8  | 5364.0  | 5323.8  | 5357.3  | 5419.8  | 5471.1  | 5486.7  |
| 22.5° | 6339.1  | 6343.5  | 6216.4  | 5982.1  | 5707.6  | 5526.9  | 5426.5  | 5419.8  | 5493.4  | 5551.4  | 5569.3  |
| 25°   | 7059.8  | 7041.9  | 6863.4  | 6528.7  | 6111.5  | 5812.5  | 5638.5  | 5598.3  | 5660.8  | 5725.5  | 5747.8  |
| 27.5° | 7898.7  | 7834.0  | 7622.1  | 7218.2  | 6678.2  | 6240.9  | 5973.2  | 5908.4  | 5968.7  | 6042.3  | 6064.6  |
| 30°   | 8728.8  | 8661.8  | 8409.7  | 7967.9  | 7367.7  | 6814.3  | 6430.6  | 6325.7  | 6410.5  | 6515.4  | 6528.7  |
| 32.5° | 9558.8  | 9558.8  | 9277.7  | 8762.3  | 8108.5  | 7499.3  | 7039.7  | 6914.8  | 7055.3  | 7182.5  | 7211.5  |
| 35°   | 10551.7 | 10556.2 | 10284.0 | 9663.7  | 8960.8  | 8316.0  | 7809.5  | 7718.0  | 7930.0  | 8019.2  | 8088.4  |
| 37.5° | 11772.3 | 11796.8 | 11446.5 | 10696.8 | 9927.0  | 9248.7  | 8646.2  | 8521.3  | 8733.3  | 8976.5  | 9199.6  |
| 40°   | 13091.0 | 13122.2 | 12736.2 | 11812.4 | 11042.6 | 10333.1 | 9681.5  | 9456.2  | 9808.7  | 10272.8 | 10560.7 |
| 42.5° | 14349.4 | 14510.0 | 14137.4 | 13186.9 | 12359.1 | 11625.0 | 10964.5 | 10636.5 | 11078.3 | 11779.0 | 12028.9 |
| 45°   | 16167.9 | 16283.9 | 15634.6 | 14773.3 | 13994.6 | 13173.5 | 12298.8 | 11953.0 | 12571.1 | 13454.7 | 13506.0 |
| 47.5° | 17379.5 | 17292.5 | 16962.2 | 16426.7 | 15933.6 | 15166.0 | 13849.6 | 13470.3 | 14291.4 | 15331.2 | 15043.3 |
| 50°   | 18024.3 | 18051.1 | 18006.5 | 18037.7 | 18055.6 | 17573.6 | 15750.6 | 15230.8 | 16210.3 | 17466.5 | 16803.8 |
| 52.5° | 18626.8 | 18448.3 | 18595.5 | 19327.4 | 20211.0 | 20032.5 | 17819.0 | 17276.8 | 18267.5 | 19836.1 | 18664.7 |
| 55°   | 18613.4 | 18341.2 | 18820.9 | 20112.8 | 22029.5 | 22234.8 | 20141.8 | 19517.1 | 20443.0 | 22377.6 | 20637.2 |
| 57.5° | 17955.2 | 17968.5 | 18707.1 | 20398.4 | 23296.8 | 24305.4 | 22837.2 | 21900.1 | 22750.2 | 24952.5 | 22437.8 |
| 60°   | 17049.3 | 17172.0 | 18236.3 | 20351.6 | 24312.1 | 26003.4 | 26144.0 | 24468.3 | 25010.5 | 27293.1 | 23928.3 |
| 62.5° | 15587.8 | 15717.2 | 17185.4 | 19865.1 | 24158.1 | 27638.9 | 29133.9 | 27382.3 | 27373.4 | 28712.2 | 24365.6 |
| 65°   | 13282.8 | 13244.9 | 14786.7 | 18046.6 | 22866.2 | 28848.3 | 32103.7 | 29901.5 | 29154.0 | 28734.5 | 23486.5 |
| 67.5° | 9795.3  | 9625.8  | 10948.9 | 13744.7 | 19006.1 | 27493.9 | 33850.8 | 31213.5 | 29760.9 | 26844.6 | 20800.0 |
| 70°   | 5082.9  | 4913.3  | 5984.3  | 8025.9  | 12499.7 | 21458.3 | 31916.3 | 30535.1 | 28419.9 | 22502.5 | 16295.1 |
| 72.5° | 2173.3  | 2144.3  | 2579.4  | 3521.0  | 6046.8  | 12376.9 | 25026.1 | 26429.6 | 24385.7 | 16765.9 | 11203.3 |
| 75°   | 1461.5  | 1452.6  | 1615.5  | 1918.9  | 2719.9  | 5022.6  | 15661.4 | 18760.6 | 17841.4 | 10395.6 | 6301.1  |
| 77.5° | 1146.9  | 1135.7  | 1231.7  | 1378.9  | 1762.7  | 1981.4  | 6950.5  | 10072.0 | 9322.3  | 4525.0  | 2757.9  |
| 80°   | 897.0   | 888.1   | 948.3   | 1028.6  | 1267.4  | 1249.5  | 2287.1  | 4007.4  | 3101.5  | 1733.7  | 1341.0  |
| 82.5° | 707.3   | 707.3   | 756.4   | 758.6   | 899.2   | 852.4   | 1193.7  | 1764.9  | 1548.5  | 1010.8  | 821.1   |
| 85°   | 647.1   | 647.1   | 698.4   | 566.7   | 586.8   | 537.7   | 740.8   | 1046.5  | 981.8   | 415.0   | 357.0   |
| 87.5° | 325.8   | 316.8   | 586.8   | 502.0   | 319.1   | 285.6   | 361.5   | 506.5   | 544.4   | 229.8   | 178.5   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5696.5  | 5696.5 | 5696.5 | 5696.5 | 5696.5 | 5696.5 | 5696.5 | 5696.5 | 5696.5 | 5696.5 |
| 2.5°  | 5669.7  | 5667.5 | 5671.9 | 5674.2 | 5692.0 | 5716.6 | 5727.7 | 5743.3 | 5752.3 | 5747.8 |
| 5°    | 5602.8  | 5607.2 | 5625.1 | 5638.5 | 5669.7 | 5709.9 | 5732.2 | 5750.0 | 5765.6 | 5758.9 |
| 7.5°  | 5547.0  | 5558.1 | 5584.9 | 5596.1 | 5613.9 | 5625.1 | 5622.8 | 5629.5 | 5642.9 | 5627.3 |
| 10°   | 5515.7  | 5529.1 | 5549.2 | 5533.6 | 5491.2 | 5430.9 | 5375.2 | 5346.2 | 5355.1 | 5343.9 |
| 12.5° | 5484.5  | 5502.3 | 5486.7 | 5413.1 | 5294.8 | 5216.7 | 5174.4 | 5178.8 | 5198.9 | 5203.4 |
| 15°   | 5466.6  | 5473.3 | 5406.4 | 5268.1 | 5147.6 | 5136.4 | 5158.7 | 5154.3 | 5156.5 | 5156.5 |
| 17.5° | 5466.6  | 5448.8 | 5323.8 | 5185.5 | 5134.2 | 5114.1 | 5044.9 | 4957.9 | 4920.0 | 4906.6 |
| 20°   | 5495.7  | 5448.8 | 5297.1 | 5205.6 | 5094.0 | 4922.2 | 4739.2 | 4578.6 | 4507.2 | 4487.1 |
| 22.5° | 5582.7  | 5502.3 | 5372.9 | 5214.5 | 4897.7 | 4609.8 | 4319.8 | 4127.9 | 3998.5 | 3976.2 |
| 25°   | 5758.9  | 5669.7 | 5522.4 | 5096.3 | 4585.3 | 4174.7 | 3844.5 | 3630.3 | 3500.9 | 3483.0 |
| 27.5° | 6066.9  | 6008.9 | 5602.8 | 4835.2 | 4170.3 | 3730.7 | 3425.0 | 3259.9 | 3164.0 | 3157.3 |
| 30°   | 6531.0  | 6502.0 | 5562.6 | 4449.2 | 3659.3 | 3300.1 | 3152.8 | 3056.9 | 2985.5 | 2983.2 |
| 32.5° | 7271.8  | 7037.5 | 5430.9 | 3978.4 | 3193.0 | 2994.4 | 2934.1 | 2876.1 | 2820.3 | 2820.3 |
| 35°   | 8224.5  | 7470.3 | 5181.0 | 3474.1 | 2909.6 | 2824.8 | 2748.9 | 2657.5 | 2583.8 | 2579.4 |
| 37.5° | 9344.6  | 7738.1 | 4732.6 | 3068.0 | 2775.7 | 2711.0 | 2599.4 | 2463.3 | 2333.9 | 2311.6 |
| 40°   | 10475.9 | 7818.4 | 4101.1 | 2818.1 | 2690.9 | 2597.2 | 2461.1 | 2300.5 | 2175.5 | 2168.8 |
| 42.5° | 11513.4 | 7664.5 | 3431.7 | 2646.3 | 2606.1 | 2481.2 | 2338.4 | 2195.6 | 2097.4 | 2095.2 |
| 45°   | 12383.6 | 7265.1 | 2869.4 | 2483.4 | 2516.9 | 2376.3 | 2249.1 | 2133.1 | 2057.2 | 2041.6 |
| 47.5° | 13202.5 | 6700.5 | 2474.5 | 2311.6 | 2427.6 | 2318.3 | 2211.2 | 2101.9 | 2028.2 | 2017.1 |
| 50°   | 14153.0 | 6091.4 | 2197.8 | 2144.3 | 2349.5 | 2298.2 | 2242.4 | 2128.6 | 2005.9 | 1992.5 |
| 52.5° | 15304.4 | 5564.8 | 1981.4 | 1997.0 | 2289.3 | 2325.0 | 2322.8 | 2204.5 | 1990.3 | 1972.5 |
| 55°   | 16589.6 | 4980.2 | 1818.5 | 1876.5 | 2264.8 | 2374.1 | 2342.8 | 2275.9 | 2003.7 | 1976.9 |
| 57.5° | 17854.7 | 4297.5 | 1704.7 | 1785.0 | 2229.1 | 2369.6 | 2246.9 | 2151.0 | 2034.9 | 1997.0 |
| 60°   | 18803.0 | 3380.4 | 1617.7 | 1704.7 | 2151.0 | 2296.0 | 2142.0 | 2014.9 | 2028.2 | 1999.2 |
| 62.5° | 18865.5 | 2612.8 | 1512.8 | 1635.5 | 2032.7 | 2222.4 | 2072.9 | 1954.6 | 2057.2 | 2030.5 |
| 65°   | 17756.6 | 1974.7 | 1412.4 | 1553.0 | 1905.5 | 2175.5 | 2005.9 | 1921.1 | 2117.5 | 2088.5 |
| 67.5° | 14949.6 | 1588.7 | 1327.6 | 1468.2 | 1778.3 | 2077.3 | 1945.7 | 1889.9 | 2171.0 | 2119.7 |
| 70°   | 10792.7 | 1354.4 | 1245.1 | 1365.5 | 1664.5 | 1965.8 | 1892.1 | 1834.1 | 2026.0 | 1945.7 |
| 72.5° | 6644.8  | 1173.7 | 1151.3 | 1229.4 | 1577.5 | 1849.7 | 1811.8 | 1729.2 | 1825.2 | 1760.5 |
| 75°   | 3317.9  | 1017.5 | 1046.5 | 1095.6 | 1454.8 | 1718.1 | 1677.9 | 1595.4 | 1608.8 | 1595.4 |
| 77.5° | 1588.7  | 870.2  | 923.8  | 961.7  | 1296.4 | 1568.6 | 1526.2 | 1441.4 | 1425.8 | 1428.0 |
| 80°   | 1006.3  | 727.4  | 778.7  | 805.5  | 1158.0 | 1394.6 | 1352.2 | 1267.4 | 1445.9 | 1341.0 |
| 82.5° | 629.2   | 591.3  | 604.7  | 653.8  | 1008.5 | 1213.8 | 1158.0 | 1082.2 | 1303.1 | 1030.9 |
| 85°   | 348.1   | 412.8  | 430.6  | 473.0  | 776.5  | 1015.2 | 959.5  | 863.5  | 774.3  | 760.9  |
| 87.5° | 207.5   | 245.4  | 252.1  | 283.4  | 522.1  | 734.1  | 649.3  | 615.8  | 511.0  | 508.7  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)