

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: P191785

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-7050-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47383 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

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

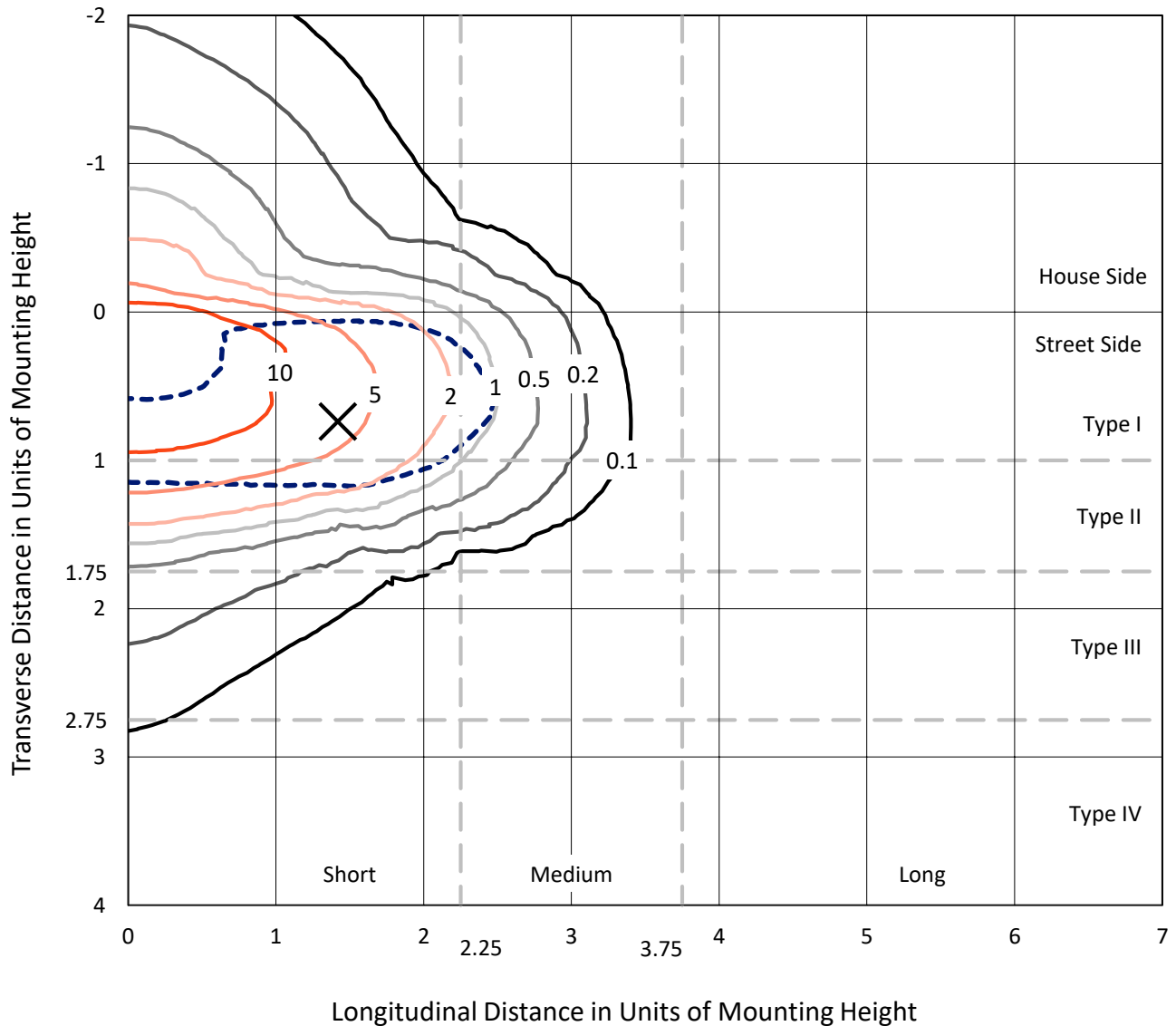


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### Iso-Footcandle Lines of Horizontal Illumination

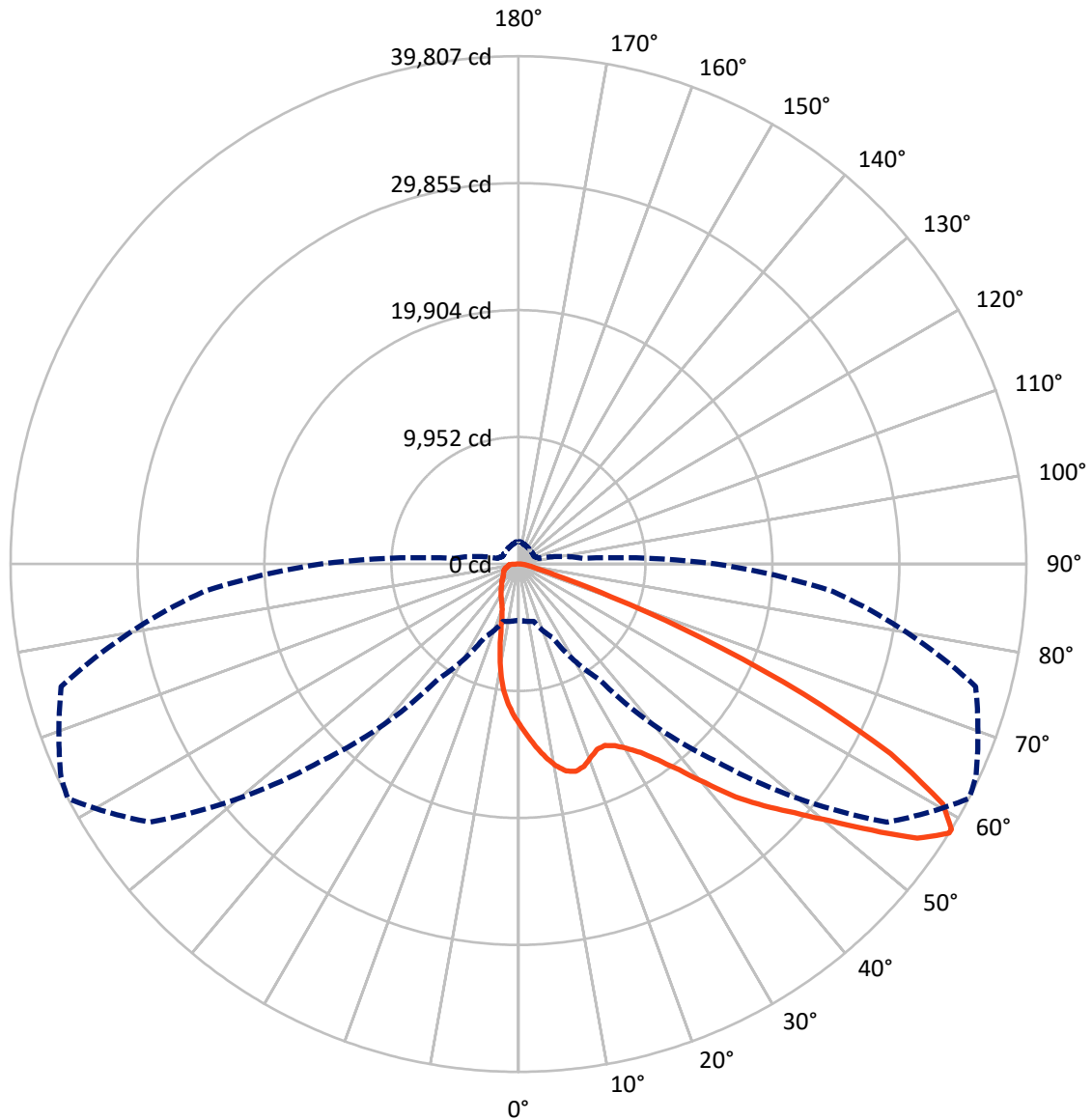
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7226.1   | 0.0    | 7226.1  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 40156.9  | 0.0    | 40156.9 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 47383.0  | 0.0    | 47383.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1125.7  | 2.4       |
| 10°-20°   | 2877.4  | 6.1       |
| 20°-30°   | 4651.4  | 9.8       |
| 30°-40°   | 7384.0  | 15.6      |
| 40°-50°   | 10804.3 | 22.8      |
| 50°-60°   | 11300.4 | 23.8      |
| 60°-70°   | 6676.3  | 14.1      |
| 70°-80°   | 1880.7  | 4.0       |
| 80°-90°   | 682.8   | 1.4       |
| 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°    | 47383.0 | 100.0     |
| 0°-180°   | 47383.0 | 100.0     |

**Coefficient of Utilization**



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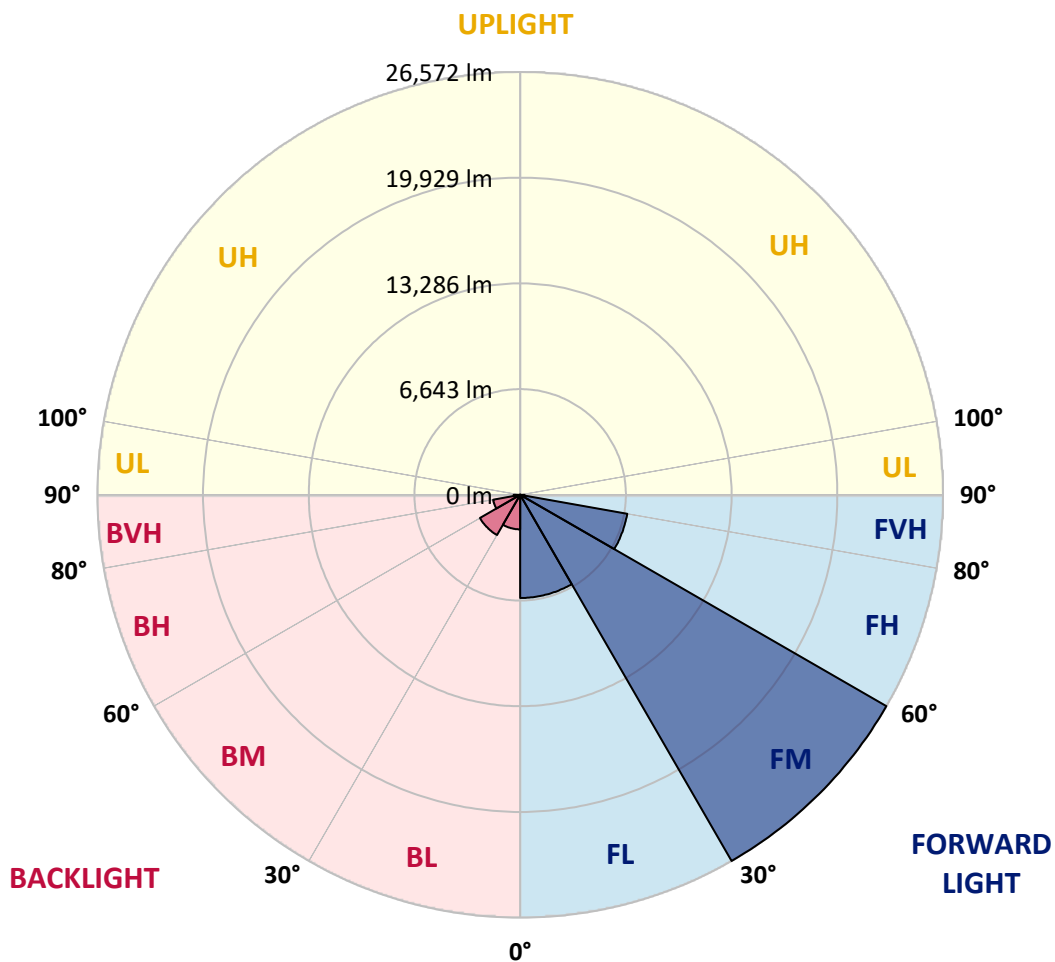
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6482.6  | 13.7      |                         |      |         |
| FM (30°-60°)   | 26572.1 | 56.1      |                         |      |         |
| FH (60°-80°)   | 6832.8  | 14.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 269.4   | 0.6       |                         |      | G3/500  |
| BL (0°-30°)    | 2171.8  | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 2916.6  | 6.2       | B3/5000                 |      |         |
| BH (60°-80°)   | 1724.2  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 413.4   | 0.9       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 |
| 2.5°  | 14382.5 | 14266.4 | 14192.8 | 14128.1 | 14043.3 | 13862.6 | 13619.4 | 13465.4 | 13387.3 | 13121.8 | 12807.2 |
| 5°    | 15792.6 | 15690.0 | 15614.1 | 15527.1 | 15375.4 | 15092.0 | 14699.3 | 14386.9 | 14233.0 | 13701.9 | 13072.7 |
| 7.5°  | 15462.4 | 15504.8 | 15636.4 | 15866.2 | 16062.6 | 16024.6 | 15674.3 | 15277.2 | 15074.1 | 14335.6 | 13380.6 |
| 10°   | 13472.1 | 13545.8 | 13773.3 | 14311.1 | 15181.2 | 16073.7 | 16345.9 | 16071.5 | 15866.2 | 14962.6 | 13697.5 |
| 12.5° | 13072.7 | 13070.5 | 13088.4 | 13231.2 | 13748.8 | 15005.0 | 16368.3 | 16644.9 | 16522.2 | 15560.5 | 14021.0 |
| 15°   | 13235.6 | 13240.1 | 13226.7 | 13286.9 | 13447.6 | 13945.1 | 15685.5 | 16865.8 | 16952.8 | 16163.0 | 14355.7 |
| 17.5° | 13664.0 | 13652.9 | 13601.5 | 13601.5 | 13659.5 | 13853.7 | 14882.3 | 16660.5 | 17062.2 | 16696.2 | 14650.2 |
| 20°   | 14382.5 | 14331.1 | 14195.0 | 14070.1 | 14007.6 | 14112.5 | 14552.0 | 16187.5 | 16872.5 | 17162.6 | 14893.4 |
| 22.5° | 15252.6 | 15212.5 | 14991.6 | 14723.8 | 14507.4 | 14505.2 | 14721.6 | 15774.7 | 16544.5 | 17602.1 | 15098.7 |
| 25°   | 16377.2 | 16312.5 | 15984.5 | 15556.1 | 15176.8 | 15031.7 | 15092.0 | 15754.7 | 16366.0 | 18079.6 | 15281.6 |
| 27.5° | 17698.1 | 17579.8 | 17191.6 | 16573.5 | 16015.7 | 15723.4 | 15636.4 | 16118.4 | 16528.9 | 18670.9 | 15536.0 |
| 30°   | 19300.1 | 19164.0 | 18666.4 | 17860.9 | 17073.3 | 16593.6 | 16408.4 | 16763.2 | 17068.9 | 19391.6 | 15944.3 |
| 32.5° | 21123.0 | 20926.6 | 20351.0 | 19463.0 | 18427.7 | 17695.8 | 17394.6 | 17615.5 | 17858.7 | 20259.5 | 16455.3 |
| 35°   | 23642.0 | 23407.8 | 22575.5 | 21350.6 | 20181.4 | 19175.1 | 18693.2 | 18853.8 | 19090.3 | 21553.6 | 17193.8 |
| 37.5° | 25360.1 | 25255.2 | 24701.9 | 23550.6 | 22278.8 | 21120.8 | 20375.5 | 20469.2 | 20603.1 | 23171.3 | 18139.8 |
| 40°   | 25344.5 | 25386.9 | 25398.0 | 25409.2 | 24543.5 | 23434.5 | 22633.5 | 22535.4 | 22508.6 | 24947.3 | 19215.3 |
| 42.5° | 24074.9 | 24248.9 | 24811.2 | 25951.4 | 26477.9 | 25969.2 | 25235.1 | 24951.8 | 24811.2 | 27040.2 | 20355.4 |
| 45°   | 22131.5 | 22225.2 | 23278.3 | 25505.1 | 27468.6 | 28479.3 | 27923.8 | 27031.3 | 26776.9 | 28963.5 | 21301.5 |
| 47.5° | 21129.7 | 21232.3 | 21895.0 | 24322.6 | 27457.4 | 30507.5 | 30828.8 | 29128.6 | 28673.4 | 30636.9 | 22118.1 |
| 50°   | 18744.5 | 18958.7 | 19793.2 | 22265.4 | 26455.6 | 31440.2 | 33865.5 | 31627.6 | 30686.0 | 32265.7 | 22937.0 |
| 52.5° | 14364.6 | 14694.8 | 15629.7 | 18882.8 | 23914.2 | 30978.3 | 36295.3 | 34657.6 | 33327.8 | 33952.5 | 23639.8 |
| 55°   | 9061.0  | 9306.4  | 10091.8 | 13336.0 | 19130.5 | 28575.3 | 37216.8 | 37935.3 | 36752.7 | 35550.1 | 24248.9 |
| 57.5° | 4926.5  | 5035.9  | 5330.4  | 7363.0  | 12443.5 | 23262.7 | 35873.6 | 39800.6 | 39309.7 | 36906.7 | 24708.6 |
| 58°   | 4408.9  | 4482.5  | 4665.5  | 6381.3  | 11035.6 | 21810.2 | 35277.9 | 39807.2 | 39561.8 | 37105.2 | 24744.3 |
| 60°   | 3271.0  | 3233.0  | 3070.2  | 3641.4  | 6142.6  | 15067.4 | 31676.7 | 38214.2 | 38934.8 | 37348.4 | 24570.2 |
| 62.5° | 2873.8  | 2782.3  | 2449.9  | 2412.0  | 2987.6  | 6941.3  | 24237.8 | 32734.3 | 34436.7 | 35960.6 | 23512.6 |
| 65°   | 2699.8  | 2601.6  | 2173.2  | 2034.9  | 2155.4  | 2936.3  | 14277.6 | 24550.1 | 26685.4 | 31752.5 | 20808.4 |
| 67.5° | 2570.4  | 2443.2  | 1996.9  | 1807.3  | 1816.2  | 1941.2  | 5723.1  | 15462.4 | 17865.4 | 24108.4 | 16185.3 |
| 70°   | 2445.4  | 2307.1  | 1847.5  | 1628.8  | 1577.5  | 1535.1  | 2275.8  | 7740.1  | 9920.0  | 15228.1 | 10319.4 |
| 72.5° | 2311.5  | 2175.4  | 1715.8  | 1488.2  | 1387.8  | 1247.3  | 1486.0  | 3166.1  | 4422.3  | 7204.6  | 4681.1  |
| 75°   | 2117.4  | 1994.7  | 1584.2  | 1363.3  | 1220.5  | 1033.1  | 1122.3  | 1653.3  | 1983.6  | 2869.4  | 2255.8  |
| 77.5° | 1878.7  | 1778.3  | 1436.9  | 1260.6  | 1082.1  | 838.9   | 863.5   | 1146.8  | 1271.8  | 1642.2  | 1341.0  |
| 80°   | 1349.9  | 1385.6  | 1278.5  | 1133.5  | 963.9   | 680.5   | 662.7   | 836.7   | 903.6   | 1055.4  | 872.4   |
| 82.5° | 948.3   | 968.4   | 1057.6  | 926.0   | 796.5   | 535.5   | 488.6   | 589.0   | 629.2   | 693.9   | 470.8   |
| 85°   | 653.7   | 631.4   | 725.1   | 644.8   | 575.7   | 357.0   | 334.7   | 399.4   | 423.9   | 430.6   | 243.2   |
| 87.5° | 392.7   | 392.7   | 419.5   | 345.8   | 310.1   | 185.2   | 180.7   | 227.6   | 243.2   | 232.0   | 133.9   |
| 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°    | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 | 12586.3 |
| 2.5°  | 12619.8 | 12461.4 | 12124.5 | 11854.5 | 11513.1 | 11158.3 | 10959.8 | 10747.8 | 10602.8 | 10497.9 | 10665.2 |
| 5°    | 12715.7 | 12392.2 | 11696.1 | 11035.6 | 10306.0 | 9547.4  | 8971.7  | 8436.3  | 8063.6  | 7831.6  | 8050.3  |
| 7.5°  | 12867.5 | 12369.9 | 11261.0 | 10132.0 | 8822.3  | 7559.4  | 6430.4  | 5723.1  | 5310.3  | 5107.3  | 5234.4  |
| 10°   | 13041.5 | 12334.2 | 10750.0 | 8907.0  | 7032.8  | 5442.0  | 4598.6  | 4313.0  | 4219.2  | 4181.3  | 4199.2  |
| 12.5° | 13186.5 | 12258.3 | 10123.1 | 7425.5  | 5281.3  | 4297.3  | 4054.1  | 4047.4  | 4067.5  | 4072.0  | 4078.7  |
| 15°   | 13289.2 | 12146.8 | 9192.6  | 5881.5  | 4223.7  | 3915.8  | 3902.4  | 3942.6  | 3980.5  | 3996.1  | 4005.0  |
| 17.5° | 13358.3 | 11917.0 | 8141.7  | 4649.9  | 3784.2  | 3730.6  | 3761.8  | 3813.2  | 3853.3  | 3864.5  | 3873.4  |
| 20°   | 13351.6 | 11580.0 | 6890.0  | 3877.9  | 3545.4  | 3545.4  | 3599.0  | 3639.1  | 3641.4  | 3628.0  | 3634.7  |
| 22.5° | 13282.5 | 11118.2 | 5676.2  | 3467.3  | 3333.4  | 3371.4  | 3424.9  | 3387.0  | 3230.8  | 3128.2  | 3134.9  |
| 25°   | 13166.4 | 10567.1 | 4636.5  | 3206.3  | 3137.1  | 3204.0  | 3188.4  | 2902.8  | 2679.7  | 2579.3  | 2579.3  |
| 27.5° | 13063.8 | 9915.6  | 3837.7  | 2978.7  | 2940.8  | 3023.3  | 2746.6  | 2487.8  | 2394.1  | 2347.2  | 2331.6  |
| 30°   | 12990.2 | 9212.7  | 3304.4  | 2760.0  | 2755.6  | 2695.3  | 2382.9  | 2311.5  | 2295.9  | 2258.0  | 2244.6  |
| 32.5° | 13008.0 | 8501.0  | 2963.1  | 2568.1  | 2583.8  | 2307.1  | 2208.9  | 2224.5  | 2211.1  | 2171.0  | 2153.1  |
| 35°   | 13155.3 | 7824.9  | 2739.9  | 2394.1  | 2347.2  | 2084.0  | 2106.3  | 2135.3  | 2130.8  | 2075.0  | 2057.2  |
| 37.5° | 13418.6 | 7184.5  | 2592.7  | 2249.1  | 2048.3  | 1972.4  | 2008.1  | 2052.7  | 2041.6  | 2003.6  | 1990.3  |
| 40°   | 13695.2 | 6582.1  | 2472.2  | 2135.3  | 1872.0  | 1896.5  | 1927.8  | 1952.3  | 1963.5  | 1974.6  | 1965.7  |
| 42.5° | 13965.2 | 5952.9  | 2324.9  | 2019.3  | 1798.4  | 1825.1  | 1838.5  | 1863.1  | 1923.3  | 1965.7  | 1963.5  |
| 45°   | 14125.9 | 5361.6  | 2173.2  | 1854.1  | 1740.4  | 1756.0  | 1747.0  | 1796.1  | 1869.8  | 1938.9  | 1941.2  |
| 47.5° | 14304.4 | 4902.0  | 2052.7  | 1702.4  | 1684.6  | 1695.7  | 1669.0  | 1718.0  | 1785.0  | 1869.8  | 1878.7  |
| 50°   | 14520.8 | 4627.6  | 1956.8  | 1581.9  | 1608.7  | 1608.7  | 1602.0  | 1646.6  | 1740.4  | 1838.5  | 1856.4  |
| 52.5° | 14766.2 | 4574.0  | 1876.5  | 1494.9  | 1532.9  | 1530.6  | 1537.3  | 1604.2  | 1706.9  | 1802.8  | 1818.4  |
| 55°   | 15065.2 | 4719.0  | 1789.4  | 1430.2  | 1459.2  | 1468.1  | 1490.5  | 1566.3  | 1653.3  | 1762.7  | 1769.4  |
| 57.5° | 15413.3 | 5013.6  | 1720.3  | 1378.9  | 1392.3  | 1421.3  | 1457.0  | 1526.2  | 1619.9  | 1740.4  | 1747.0  |
| 58°   | 15471.3 | 5076.0  | 1709.1  | 1374.4  | 1378.9  | 1412.4  | 1452.5  | 1519.5  | 1613.2  | 1744.8  | 1751.5  |
| 60°   | 15473.5 | 5283.5  | 1684.6  | 1354.4  | 1327.6  | 1383.4  | 1428.0  | 1494.9  | 1602.0  | 1760.4  | 1776.1  |
| 62.5° | 14924.7 | 5281.3  | 1666.7  | 1325.3  | 1274.0  | 1343.2  | 1394.5  | 1472.6  | 1590.9  | 1798.4  | 1829.6  |
| 65°   | 13141.9 | 4799.4  | 1581.9  | 1280.7  | 1231.6  | 1307.5  | 1365.5  | 1457.0  | 1622.1  | 1963.5  | 1983.6  |
| 67.5° | 10279.2 | 3933.6  | 1423.5  | 1218.2  | 1175.9  | 1271.8  | 1347.7  | 1454.8  | 1655.6  | 2001.4  | 2014.8  |
| 70°   | 6796.3  | 2943.0  | 1249.5  | 1146.8  | 1117.8  | 1229.4  | 1356.6  | 1530.6  | 1617.6  | 1921.1  | 1885.4  |
| 72.5° | 3527.6  | 2066.1  | 1108.9  | 1057.6  | 1050.9  | 1191.5  | 1486.0  | 1521.7  | 1579.7  | 1807.3  | 1762.7  |
| 75°   | 1851.9  | 1434.7  | 986.2   | 959.4   | 970.6   | 1182.5  | 1753.7  | 1481.5  | 1530.6  | 1729.2  | 1814.0  |
| 77.5° | 1133.5  | 1158.0  | 881.3   | 870.2   | 892.5   | 1155.8  | 1751.5  | 1430.2  | 1459.2  | 1590.9  | 1684.6  |
| 80°   | 758.6   | 939.3   | 801.0   | 803.2   | 818.9   | 1057.6  | 1573.0  | 1349.9  | 1372.2  | 1503.8  | 1599.8  |
| 82.5° | 479.7   | 555.6   | 727.4   | 765.3   | 745.2   | 872.4   | 1336.5  | 1229.4  | 1260.6  | 1720.3  | 1818.4  |
| 85°   | 243.2   | 348.1   | 631.4   | 736.3   | 671.6   | 611.4   | 1084.4  | 1077.7  | 1093.3  | 1240.6  | 1296.3  |
| 87.5° | 111.6   | 191.9   | 493.1   | 642.6   | 506.5   | 381.5   | 787.6   | 798.8   | 861.3   | 881.3   | 881.3   |
| 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)