

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: P191478

Luminaire Tested: **GAN-AF-10-LED-U-T3R-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-10-LED-U-T3R-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40599.9 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

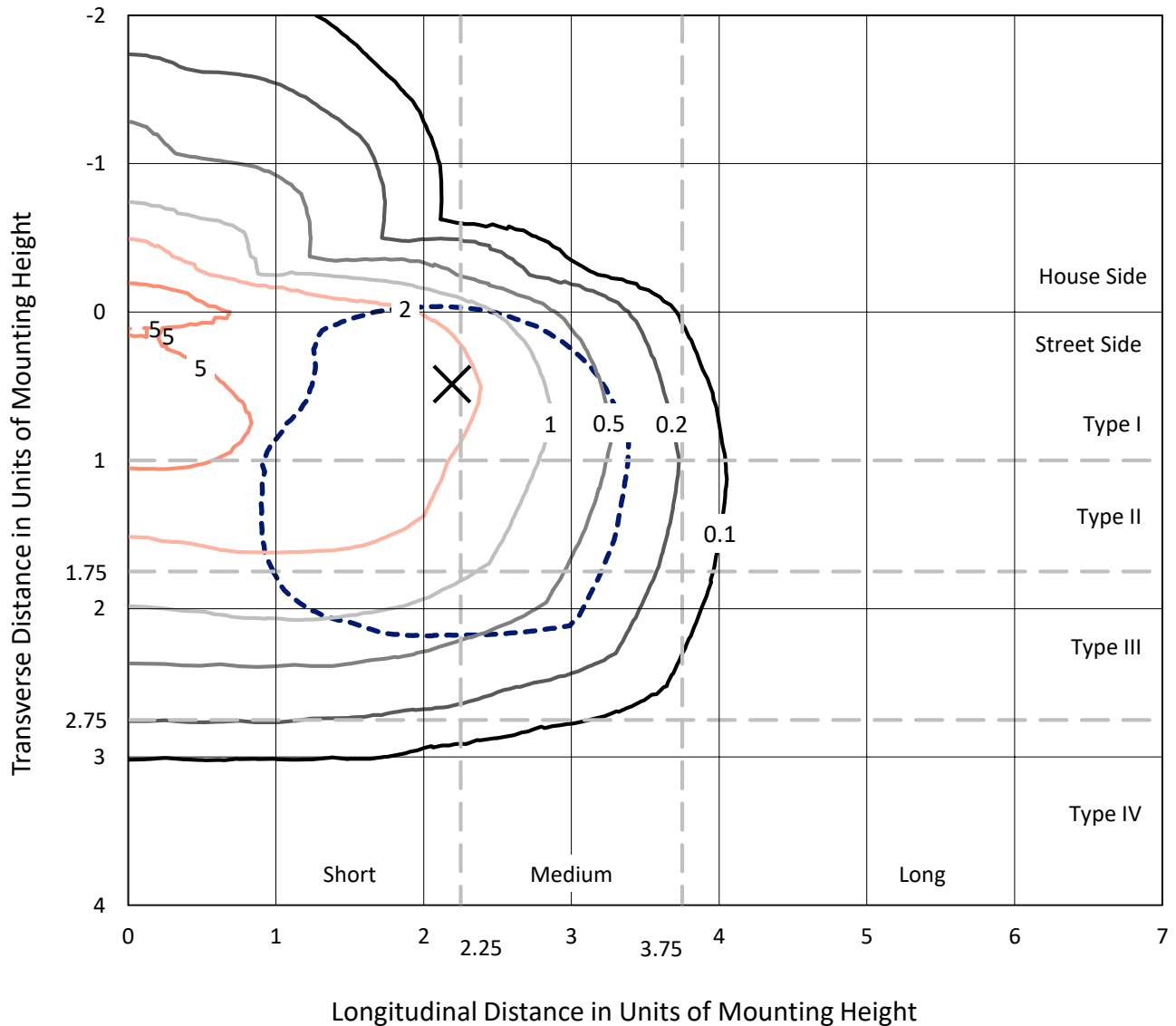
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

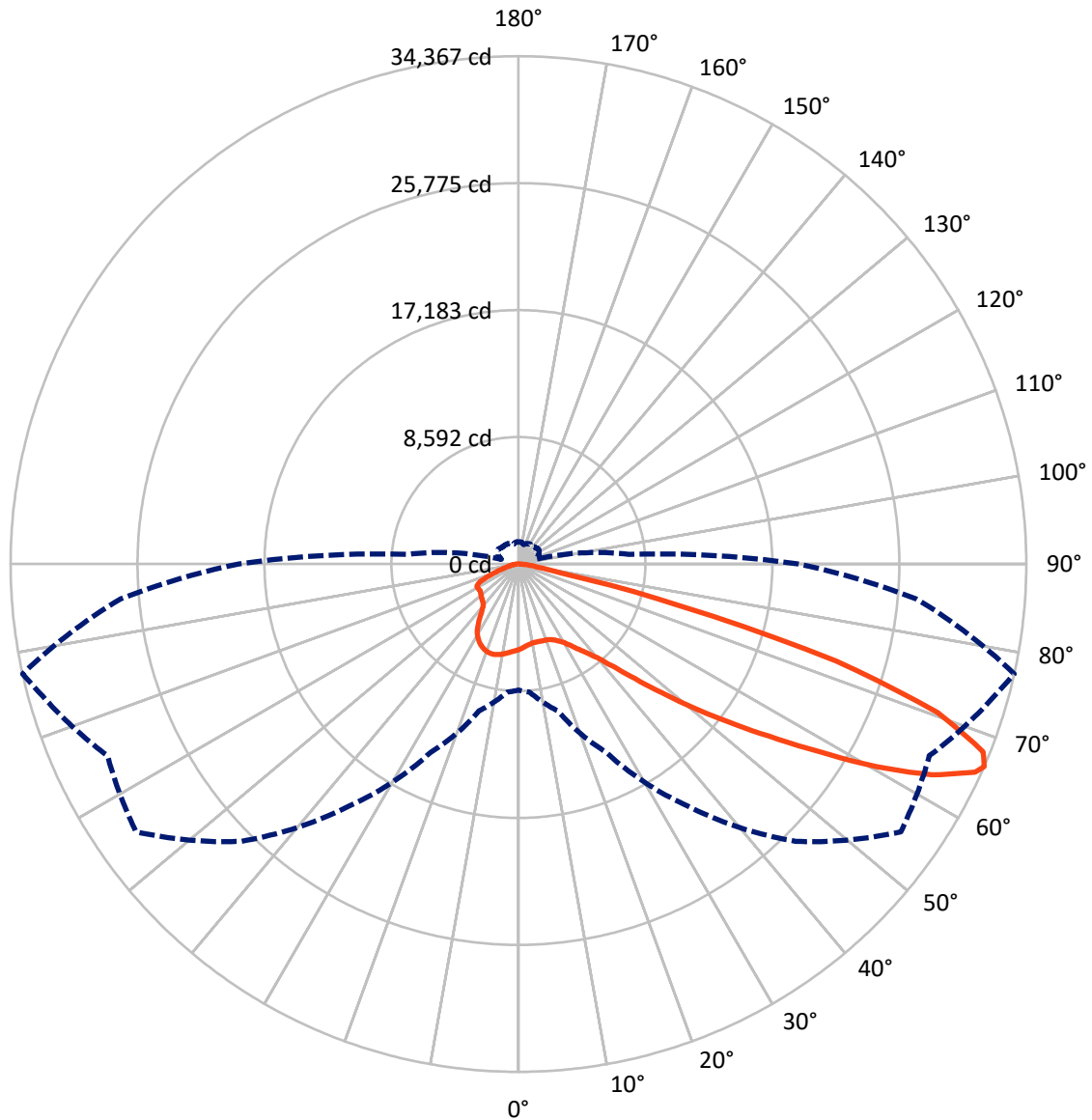
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6936.2   | 0.0    | 6936.2  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 33663.7  | 0.0    | 33663.7 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 40599.9  | 0.0    | 40599.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 516.9   | 1.3       |
| 10°-20°   | 1458.3  | 3.6       |
| 20°-30°   | 2488.8  | 6.1       |
| 30°-40°   | 3984.1  | 9.8       |
| 40°-50°   | 6155.0  | 15.2      |
| 50°-60°   | 8729.9  | 21.5      |
| 60°-70°   | 11678.2 | 28.8      |
| 70°-80°   | 5071.6  | 12.5      |
| 80°-90°   | 517.1   | 1.3       |
| 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°    | 40599.9 | 100.0     |
| 0°-180°   | 40599.9 | 100.0     |



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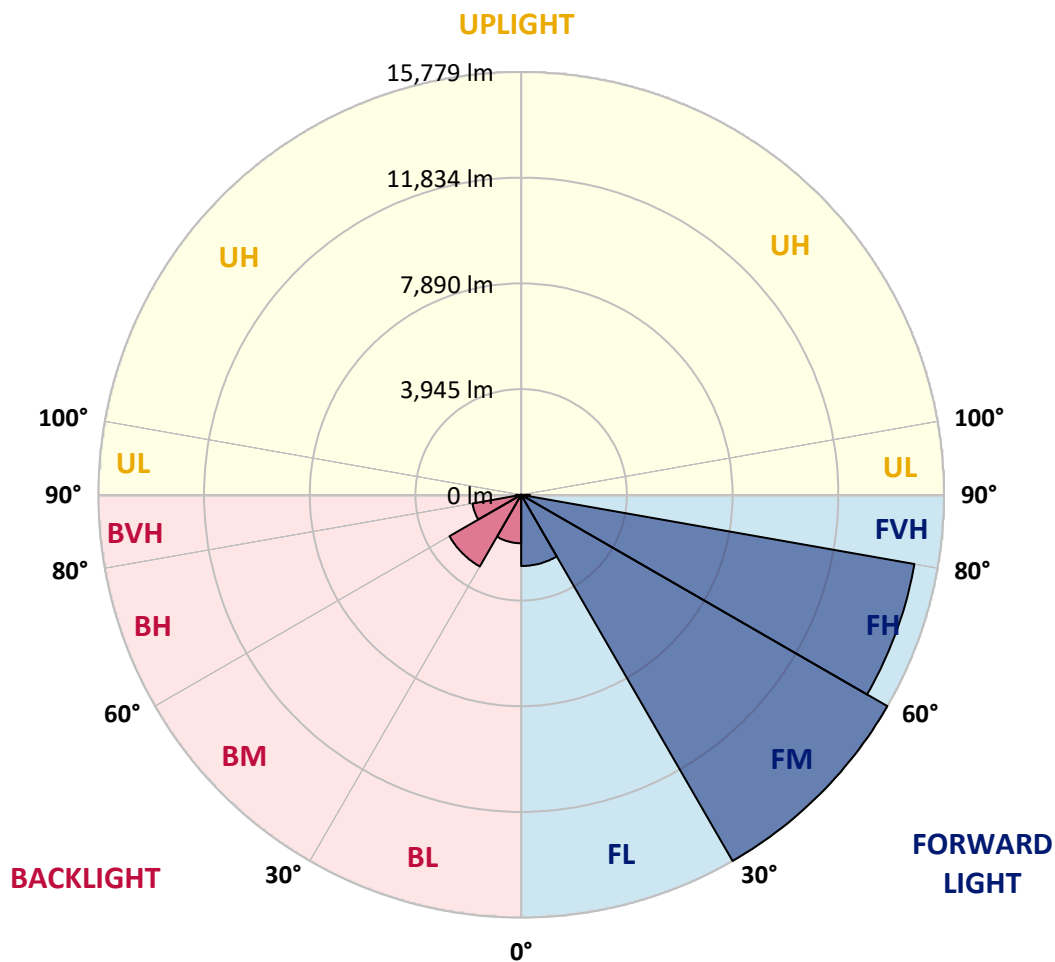
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2657.4  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 15779.2 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 14902.6 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 324.3   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1806.5  | 4.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3089.7  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1847.2  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 192.8   | 0.5       |                         |      | G2/225  |
| 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°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  | 5785.7  |
| 2.5°  | 5118.1  | 5152.6  | 5181.5  | 5208.3  | 5262.0  | 5350.2  | 5451.9  | 5534.4  | 5653.3  | 5676.4  | 5739.7  |
| 5°    | 4648.1  | 4648.1  | 4671.1  | 4711.4  | 4784.3  | 4916.7  | 5054.8  | 5238.9  | 5498.0  | 5559.3  | 5728.1  |
| 7.5°  | 4419.9  | 4421.7  | 4435.2  | 4469.7  | 4533.0  | 4653.9  | 4805.4  | 5022.2  | 5373.3  | 5474.9  | 5762.7  |
| 10°   | 4504.3  | 4485.0  | 4456.3  | 4439.0  | 4448.6  | 4519.6  | 4663.4  | 4905.2  | 5296.5  | 5427.0  | 5839.4  |
| 12.5° | 4976.1  | 4939.7  | 4840.0  | 4707.6  | 4581.0  | 4529.2  | 4613.6  | 4849.5  | 5263.9  | 5415.4  | 5941.1  |
| 15°   | 5747.3  | 5732.0  | 5545.9  | 5271.6  | 4964.6  | 4707.6  | 4650.0  | 4828.4  | 5267.7  | 5428.9  | 6061.9  |
| 17.5° | 6714.1  | 6693.1  | 6447.5  | 6048.5  | 5547.8  | 5047.1  | 4778.5  | 4845.7  | 5281.2  | 5451.9  | 6178.9  |
| 20°   | 7690.5  | 7625.4  | 7360.6  | 6884.9  | 6242.3  | 5509.4  | 4991.5  | 4889.8  | 5298.4  | 5476.8  | 6301.7  |
| 22.5° | 8419.5  | 8365.8  | 8128.0  | 7665.7  | 6925.2  | 6044.6  | 5277.3  | 4966.5  | 5354.0  | 5549.7  | 6453.3  |
| 25°   | 9060.3  | 9064.1  | 8828.2  | 8381.1  | 7615.8  | 6612.5  | 5645.7  | 5171.8  | 5496.0  | 5699.4  | 6660.4  |
| 27.5° | 9852.6  | 9806.5  | 9585.9  | 9142.7  | 8298.7  | 7186.0  | 6090.6  | 5453.8  | 5707.0  | 5912.2  | 6932.8  |
| 30°   | 10800.2 | 10767.6 | 10512.5 | 10009.9 | 9056.4  | 7801.8  | 6599.1  | 5781.8  | 5979.5  | 6192.3  | 7289.6  |
| 32.5° | 11914.7 | 11899.4 | 11634.6 | 10988.2 | 9931.2  | 8527.0  | 7195.6  | 6215.3  | 6386.1  | 6606.7  | 7801.8  |
| 35°   | 13223.1 | 13224.9 | 12912.3 | 12135.4 | 10888.4 | 9371.0  | 7872.8  | 6773.6  | 6881.1  | 7111.2  | 8411.8  |
| 37.5° | 14028.7 | 14126.5 | 14009.5 | 13217.2 | 11972.3 | 10314.8 | 8751.4  | 7514.1  | 7445.0  | 7677.1  | 9066.0  |
| 40°   | 14201.4 | 14320.3 | 14690.6 | 14287.8 | 13184.7 | 11354.5 | 9530.2  | 8225.8  | 8139.5  | 8423.4  | 9908.2  |
| 42.5° | 13959.7 | 14124.7 | 14907.4 | 15191.2 | 14471.9 | 12636.0 | 10577.6 | 9282.8  | 9173.4  | 9555.2  | 10955.6 |
| 45°   | 13815.8 | 13938.5 | 14844.0 | 15661.3 | 15588.3 | 14084.4 | 11910.9 | 10610.3 | 10569.9 | 11070.7 | 12164.1 |
| 47.5° | 13566.4 | 13677.7 | 14548.6 | 15770.5 | 16244.4 | 15411.9 | 13512.7 | 12233.2 | 12311.8 | 12967.9 | 13528.0 |
| 50°   | 13700.7 | 13746.7 | 14218.6 | 15492.4 | 16434.3 | 16384.4 | 15302.5 | 14113.1 | 14381.7 | 15200.8 | 15072.3 |
| 52.5° | 13681.6 | 13800.4 | 14180.2 | 15035.8 | 16459.3 | 16984.9 | 17065.5 | 16209.9 | 16775.8 | 17715.8 | 16785.4 |
| 55°   | 11061.1 | 11279.8 | 13729.4 | 14920.8 | 16547.5 | 17573.8 | 18634.7 | 18419.8 | 19474.8 | 20570.2 | 18719.1 |
| 57.5° | 10562.3 | 10700.5 | 12058.6 | 15162.5 | 17015.6 | 18697.9 | 20380.4 | 20852.2 | 22617.1 | 23889.0 | 21074.7 |
| 60°   | 10464.5 | 10635.2 | 12041.4 | 15457.9 | 17965.2 | 20529.9 | 22968.1 | 23796.9 | 26440.3 | 27833.1 | 23806.4 |
| 62.5° | 10159.4 | 10343.7 | 11928.1 | 15419.6 | 19313.7 | 23064.1 | 26281.1 | 26927.5 | 30066.0 | 31420.3 | 26091.2 |
| 65°   | 9192.6  | 9365.3  | 11005.4 | 14800.0 | 20223.0 | 25768.9 | 30202.1 | 29797.4 | 32928.1 | 33946.7 | 27230.6 |
| 66°   | 8530.8  | 8699.6  | 10278.4 | 14070.9 | 20012.0 | 26536.3 | 31591.1 | 30685.6 | 33568.8 | 34366.9 | 27008.2 |
| 67.5° | 7320.3  | 7452.7  | 8866.5  | 12438.5 | 18889.8 | 26751.1 | 32759.3 | 31353.1 | 33636.0 | 33918.0 | 25736.3 |
| 70°   | 4625.1  | 4663.4  | 5762.7  | 8586.4  | 14299.2 | 23200.2 | 30981.0 | 29695.8 | 30862.0 | 30098.6 | 21575.5 |
| 72.5° | 2006.6  | 1993.1  | 2766.3  | 4368.0  | 8095.3  | 15567.3 | 25061.1 | 24502.8 | 24209.3 | 22467.5 | 15102.9 |
| 75°   | 1116.4  | 1131.8  | 1436.8  | 2027.7  | 3289.9  | 7646.5  | 16394.0 | 15688.1 | 13246.1 | 11302.8 | 6848.5  |
| 77.5° | 895.9   | 917.0   | 1191.3  | 1438.8  | 1477.1  | 2666.5  | 7671.4  | 6242.3  | 3758.0  | 3015.7  | 1903.0  |
| 80°   | 707.9   | 746.2   | 1039.7  | 1120.3  | 995.6   | 1099.2  | 2478.5  | 1981.7  | 1486.7  | 1363.9  | 986.0   |
| 82.5° | 560.2   | 587.0   | 892.0   | 847.9   | 696.3   | 740.5   | 1187.4  | 1156.8  | 966.8   | 880.6   | 569.8   |
| 85°   | 402.8   | 452.8   | 732.8   | 638.8   | 456.5   | 498.8   | 788.4   | 755.9   | 554.4   | 452.8   | 251.3   |
| 87.5° | 165.0   | 214.8   | 517.9   | 423.9   | 255.1   | 232.1   | 393.2   | 370.2   | 262.8   | 191.8   | 124.7   |
| 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°    | 5785.7  | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 |
| 2.5°  | 5779.9  | 5826.0 | 5885.4 | 5921.9 | 5941.1 | 5954.5 | 5975.6 | 5973.6 | 5979.5 | 5981.4 | 5989.1 |
| 5°    | 5818.3  | 5895.1 | 5981.4 | 6004.4 | 6004.4 | 5983.2 | 5962.2 | 5927.6 | 5914.2 | 5910.4 | 5914.2 |
| 7.5°  | 5918.1  | 6002.5 | 6077.2 | 6050.4 | 5992.9 | 5908.5 | 5799.1 | 5703.2 | 5651.4 | 5634.1 | 5630.3 |
| 10°   | 6044.6  | 6146.3 | 6177.0 | 6075.3 | 5906.5 | 5703.2 | 5486.4 | 5329.2 | 5238.9 | 5214.0 | 5206.3 |
| 12.5° | 6198.2  | 6294.0 | 6251.9 | 6036.9 | 5724.3 | 5396.3 | 5097.0 | 4845.7 | 4657.7 | 4598.3 | 4594.4 |
| 15°   | 6366.9  | 6441.7 | 6294.0 | 5918.1 | 5451.9 | 4968.5 | 4435.2 | 4001.7 | 3767.6 | 3692.8 | 3687.0 |
| 17.5° | 6524.3  | 6562.6 | 6269.1 | 5710.8 | 5050.9 | 4268.3 | 3560.4 | 3226.6 | 3146.1 | 3165.2 | 3169.1 |
| 20°   | 6658.5  | 6658.5 | 6184.7 | 5413.6 | 4419.9 | 3345.6 | 2898.6 | 2892.8 | 2950.4 | 3008.0 | 3019.4 |
| 22.5° | 6806.2  | 6718.0 | 6036.9 | 4993.4 | 3525.9 | 2737.4 | 2672.3 | 2726.0 | 2791.1 | 2854.4 | 2864.1 |
| 25°   | 6988.5  | 6765.9 | 5831.7 | 4356.5 | 2772.0 | 2486.2 | 2511.1 | 2555.2 | 2587.9 | 2628.1 | 2633.9 |
| 27.5° | 7191.9  | 6827.4 | 5561.3 | 3479.9 | 2405.6 | 2328.8 | 2348.1 | 2363.4 | 2359.5 | 2374.9 | 2378.8 |
| 30°   | 7435.4  | 6898.3 | 5191.0 | 2720.2 | 2254.1 | 2194.5 | 2160.1 | 2146.6 | 2146.6 | 2171.5 | 2181.1 |
| 32.5° | 7761.5  | 7003.8 | 4659.6 | 2330.8 | 2181.1 | 2098.7 | 1987.4 | 1937.5 | 1956.7 | 2041.1 | 2060.3 |
| 35°   | 8120.3  | 7117.0 | 3940.2 | 2198.4 | 2165.8 | 2054.5 | 1881.9 | 1789.8 | 1791.7 | 1870.4 | 1895.3 |
| 37.5° | 8511.7  | 7260.9 | 3151.8 | 2173.5 | 2200.4 | 2056.4 | 1826.3 | 1699.6 | 1647.9 | 1647.9 | 1657.4 |
| 40°   | 9012.3  | 7408.6 | 2551.3 | 2190.8 | 2273.2 | 2079.5 | 1797.4 | 1628.6 | 1482.9 | 1486.7 | 1494.4 |
| 42.5° | 9664.5  | 7535.2 | 2229.1 | 2227.2 | 2361.5 | 2110.1 | 1795.6 | 1534.6 | 1408.1 | 1494.4 | 1573.0 |
| 45°   | 10389.7 | 7598.5 | 2087.1 | 2259.8 | 2432.5 | 2129.4 | 1764.9 | 1519.3 | 1417.6 | 1674.7 | 1824.3 |
| 47.5° | 11224.1 | 7562.1 | 2008.5 | 2271.3 | 2449.7 | 2129.4 | 1730.3 | 1555.8 | 1484.8 | 1939.4 | 2114.0 |
| 50°   | 12139.2 | 7456.5 | 1931.7 | 2248.2 | 2443.9 | 2125.5 | 1763.0 | 1592.2 | 1509.8 | 1985.4 | 2106.4 |
| 52.5° | 13215.4 | 7368.3 | 1851.2 | 2198.4 | 2403.6 | 2104.4 | 1801.3 | 1576.9 | 1431.1 | 1805.1 | 1889.6 |
| 55°   | 14443.0 | 7393.3 | 1761.0 | 2127.4 | 2340.4 | 2064.1 | 1787.9 | 1515.5 | 1348.6 | 1590.3 | 1642.0 |
| 57.5° | 16012.2 | 7690.5 | 1653.6 | 2037.3 | 2254.1 | 1997.0 | 1739.9 | 1486.7 | 1323.6 | 1442.6 | 1473.3 |
| 60°   | 17763.7 | 8208.6 | 1519.3 | 1947.1 | 2146.6 | 1889.6 | 1703.5 | 1500.2 | 1335.2 | 1431.1 | 1446.5 |
| 62.5° | 19049.0 | 8509.7 | 1404.2 | 1814.7 | 2000.8 | 1770.6 | 1657.4 | 1517.4 | 1365.8 | 1471.3 | 1467.5 |
| 65°   | 19398.1 | 8014.8 | 1260.4 | 1621.0 | 1803.3 | 1645.9 | 1599.9 | 1536.6 | 1379.2 | 1503.9 | 1486.7 |
| 66°   | 18908.9 | 7481.5 | 1197.1 | 1530.8 | 1703.5 | 1584.6 | 1571.2 | 1534.6 | 1373.5 | 1507.8 | 1479.0 |
| 67.5° | 17721.5 | 6388.0 | 1087.7 | 1398.5 | 1544.2 | 1492.5 | 1525.1 | 1517.4 | 1358.2 | 1503.9 | 1463.6 |
| 70°   | 14452.7 | 4358.5 | 930.4  | 1164.4 | 1285.2 | 1314.1 | 1436.8 | 1456.0 | 1308.3 | 1436.8 | 1348.6 |
| 72.5° | 10098.1 | 2655.0 | 823.0  | 903.6  | 1039.7 | 1120.3 | 1315.9 | 1371.6 | 1241.1 | 1254.5 | 1170.2 |
| 75°   | 4880.2  | 1409.9 | 746.2  | 700.2  | 807.6  | 936.1  | 1170.2 | 1256.5 | 1135.7 | 1049.3 | 1018.7 |
| 77.5° | 1521.2  | 861.3  | 633.0  | 564.0  | 633.0  | 755.9  | 978.4  | 1101.1 | 1011.0 | 878.6  | 867.1  |
| 80°   | 817.2   | 633.0  | 487.2  | 452.8  | 500.7  | 592.8  | 769.3  | 918.9  | 869.0  | 788.4  | 704.0  |
| 82.5° | 539.1   | 410.5  | 360.7  | 351.1  | 381.8  | 452.8  | 571.6  | 761.6  | 761.6  | 675.2  | 491.1  |
| 85°   | 278.1   | 251.3  | 247.5  | 247.5  | 266.7  | 301.2  | 389.4  | 587.0  | 625.3  | 356.8  | 295.4  |
| 87.5° | 138.1   | 143.8  | 134.3  | 140.0  | 149.7  | 147.7  | 186.1  | 295.4  | 353.0  | 216.8  | 180.3  |
| 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)