

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: P191575

Luminaire Tested: **GAN-AF-07-LED-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 42768.6 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

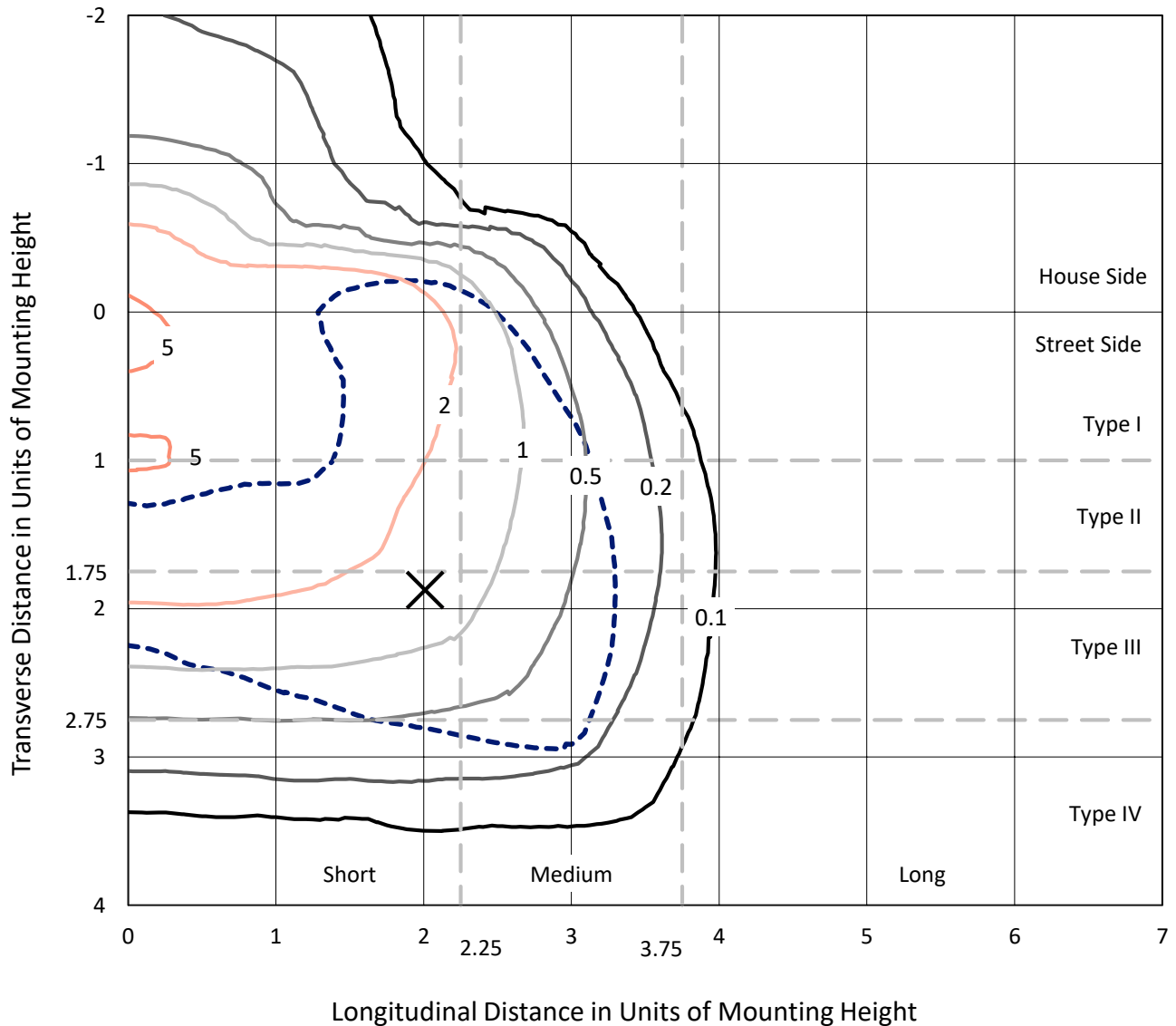
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

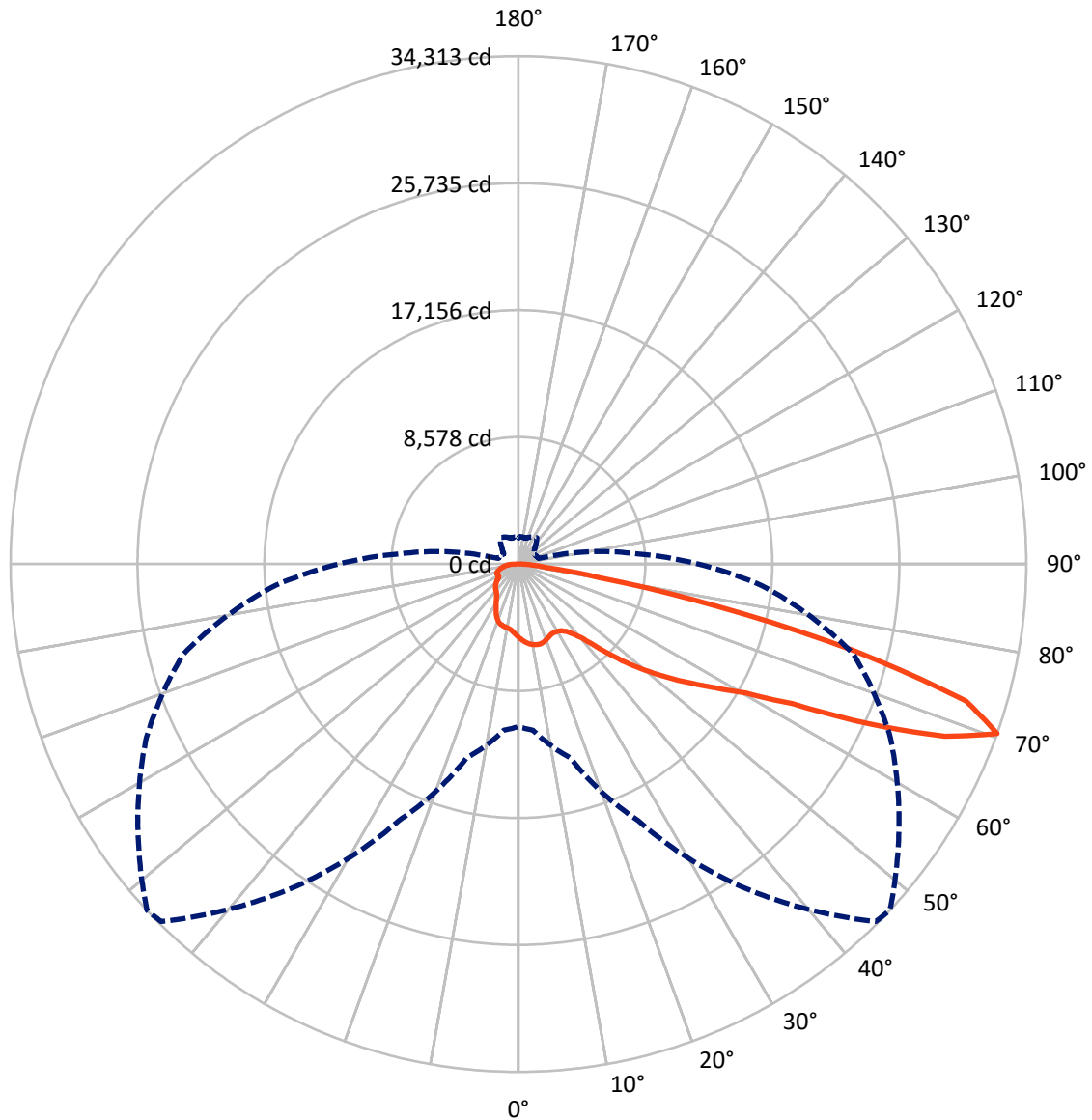
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8922.4   | 0.0    | 8922.4  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 33846.2  | 0.0    | 33846.2 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 42768.6  | 0.0    | 42768.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 475.5   | 1.1       |
| 10°-20°   | 1395.0  | 3.3       |
| 20°-30°   | 2060.0  | 4.8       |
| 30°-40°   | 2994.2  | 7.0       |
| 40°-50°   | 5388.4  | 12.6      |
| 50°-60°   | 9334.9  | 21.8      |
| 60°-70°   | 13323.6 | 31.2      |
| 70°-80°   | 6839.6  | 16.0      |
| 80°-90°   | 957.6   | 2.2       |
| 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°    | 42768.6 | 100.0     |
| 0°-180°   | 42768.6 | 100.0     |



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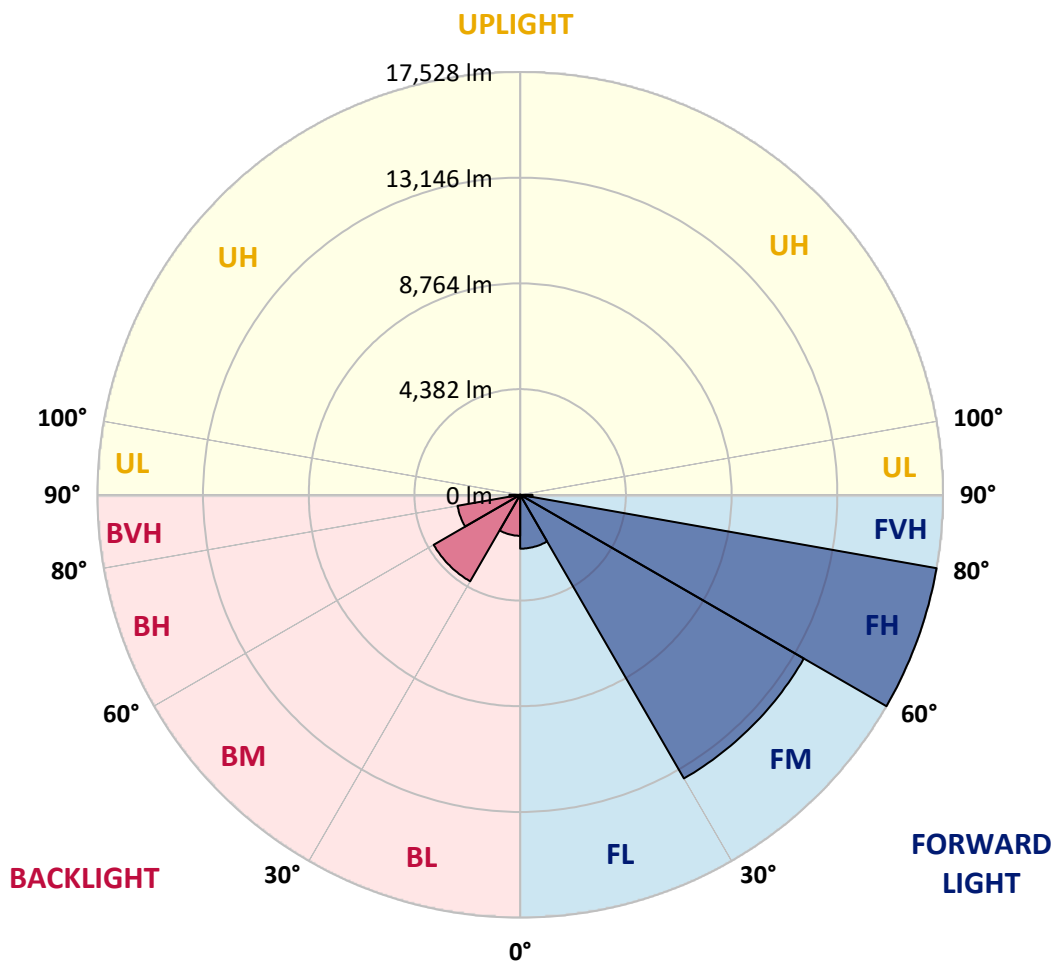
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2231.6  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 13575.9 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 17527.7 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 511.0   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1698.9  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4141.5  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2635.4  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 446.6   | 1.0       |                         |      | 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°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  | 4962.4  |
| 2.5°  | 5253.8  | 5243.3  | 5239.2  | 5230.9  | 5220.5  | 5168.5  | 5158.0  | 5120.6  | 5068.6  | 5014.5  | 4958.3  |
| 5°    | 5599.2  | 5597.1  | 5574.2  | 5532.6  | 5466.0  | 5351.6  | 5324.6  | 5233.0  | 5110.3  | 4991.6  | 4873.0  |
| 7.5°  | 5902.9  | 5884.2  | 5840.5  | 5757.3  | 5640.8  | 5484.8  | 5447.3  | 5320.4  | 5151.8  | 4989.5  | 4829.4  |
| 10°   | 6125.6  | 6115.2  | 6019.5  | 5905.1  | 5753.2  | 5580.5  | 5536.7  | 5395.2  | 5210.1  | 5004.1  | 4804.4  |
| 12.5° | 6252.5  | 6231.7  | 6121.4  | 5984.2  | 5803.1  | 5634.5  | 5590.8  | 5447.3  | 5239.2  | 5004.1  | 4769.0  |
| 15°   | 6244.2  | 6229.7  | 6119.4  | 5969.5  | 5786.4  | 5638.7  | 5599.2  | 5455.6  | 5233.0  | 4983.3  | 4723.2  |
| 17.5° | 6077.8  | 6084.0  | 5990.4  | 5842.6  | 5692.8  | 5580.5  | 5545.1  | 5411.9  | 5191.4  | 4941.7  | 4669.1  |
| 20°   | 5786.4  | 5815.6  | 5753.2  | 5622.0  | 5538.9  | 5461.8  | 5438.9  | 5326.6  | 5126.8  | 4881.3  | 4610.8  |
| 22.5° | 5495.2  | 5522.2  | 5497.2  | 5387.0  | 5374.5  | 5328.7  | 5316.2  | 5235.1  | 5070.7  | 4843.9  | 4575.5  |
| 25°   | 5280.9  | 5305.8  | 5301.6  | 5205.9  | 5243.3  | 5241.3  | 5230.9  | 5191.4  | 5058.2  | 4843.9  | 4581.7  |
| 27.5° | 5222.6  | 5230.9  | 5222.6  | 5135.2  | 5187.2  | 5228.8  | 5220.5  | 5214.3  | 5095.6  | 4904.2  | 4660.8  |
| 30°   | 5422.4  | 5409.9  | 5345.3  | 5168.5  | 5216.3  | 5274.5  | 5266.3  | 5270.4  | 5208.0  | 5062.4  | 4837.6  |
| 32.5° | 6219.2  | 6163.1  | 5959.1  | 5461.8  | 5334.9  | 5366.1  | 5370.3  | 5438.9  | 5449.4  | 5305.8  | 5112.3  |
| 35°   | 7411.5  | 7349.1  | 7084.8  | 6248.4  | 5703.3  | 5595.0  | 5595.0  | 5699.1  | 5761.5  | 5655.4  | 5538.9  |
| 37.5° | 8674.4  | 8605.8  | 8464.3  | 7338.6  | 6477.2  | 5992.4  | 5982.0  | 6054.8  | 6144.4  | 6169.3  | 6198.5  |
| 40°   | 10110.1 | 10037.3 | 10076.9 | 8562.1  | 7557.2  | 6681.1  | 6533.4  | 6481.4  | 6722.7  | 6882.9  | 7116.1  |
| 42.5° | 11681.1 | 11647.8 | 11662.4 | 9925.0  | 8786.8  | 7711.1  | 7501.0  | 7232.6  | 7523.8  | 7808.9  | 8297.9  |
| 45°   | 13135.5 | 13164.7 | 13150.0 | 11383.5 | 10156.0 | 8967.8  | 8745.2  | 8225.0  | 8510.1  | 8999.1  | 9796.0  |
| 47.5° | 14408.9 | 14288.2 | 14475.5 | 12977.4 | 11689.4 | 10374.4 | 10099.7 | 9402.8  | 9691.9  | 10295.3 | 11643.6 |
| 50°   | 15954.9 | 15938.2 | 15663.5 | 15103.9 | 13543.4 | 11787.2 | 11427.3 | 10620.0 | 11069.4 | 11907.9 | 13972.0 |
| 52.5° | 17579.9 | 17278.2 | 17026.4 | 16758.0 | 15509.6 | 13235.3 | 12794.3 | 11833.0 | 12688.2 | 13743.0 | 16810.0 |
| 55°   | 17912.8 | 17777.6 | 18089.7 | 18541.2 | 17405.1 | 14739.7 | 14225.8 | 13354.0 | 14510.9 | 15840.4 | 20083.0 |
| 57.5° | 18624.4 | 18622.3 | 19267.4 | 20072.5 | 19356.8 | 16335.6 | 15817.5 | 15191.2 | 16560.3 | 18243.6 | 23557.7 |
| 60°   | 19105.0 | 19240.3 | 20438.8 | 22001.4 | 21273.2 | 18179.2 | 17702.7 | 17311.5 | 18890.7 | 20929.8 | 26795.4 |
| 62.5° | 19356.8 | 19539.9 | 21175.4 | 22783.8 | 23982.3 | 21248.1 | 20771.7 | 20207.8 | 21974.3 | 23876.1 | 28688.8 |
| 65°   | 18310.2 | 18670.2 | 21060.9 | 23459.9 | 26354.2 | 26223.1 | 26008.8 | 25018.4 | 25829.9 | 26204.4 | 28004.2 |
| 67.5° | 15413.8 | 15782.2 | 18566.1 | 22829.5 | 28047.9 | 31021.3 | 31067.0 | 29375.4 | 28201.9 | 26404.2 | 23545.3 |
| 70°   | 10982.0 | 11271.2 | 13574.6 | 19140.4 | 26757.8 | 34156.8 | 34312.9 | 31383.3 | 27729.5 | 23416.3 | 16450.1 |
| 72.5° | 5214.3  | 5391.2  | 7571.7  | 12457.2 | 21233.6 | 31295.9 | 31597.6 | 28819.9 | 23578.6 | 17336.5 | 8974.0  |
| 75°   | 1916.3  | 1970.4  | 2559.2  | 5299.6  | 12315.7 | 23079.2 | 23435.0 | 20659.3 | 15630.3 | 8630.7  | 3418.6  |
| 77.5° | 1148.6  | 1184.0  | 1435.7  | 2236.8  | 4843.9  | 13191.7 | 13718.1 | 11235.8 | 6831.0  | 3212.6  | 1681.2  |
| 80°   | 803.1   | 828.1   | 1029.9  | 1392.0  | 2288.8  | 5027.0  | 5495.2  | 4585.9  | 2721.6  | 2032.8  | 1223.4  |
| 82.5° | 543.1   | 555.6   | 724.0   | 940.5   | 1521.0  | 1795.7  | 1937.2  | 2039.0  | 1835.2  | 1512.6  | 776.1   |
| 85°   | 355.8   | 368.3   | 491.0   | 620.0   | 967.5   | 928.0   | 948.8   | 1200.5  | 1340.0  | 1027.9  | 430.7   |
| 87.5° | 203.9   | 212.3   | 295.4   | 330.8   | 474.4   | 393.2   | 397.4   | 632.5   | 857.2   | 692.8   | 262.2   |
| 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°    | 4962.4  | 4962.4  | 4962.4 | 4962.4 | 4962.4 | 4962.4 | 4962.4 | 4962.4 | 4962.4 | 4962.4 | 4962.4 |
| 2.5°  | 4943.7  | 4916.7  | 4856.4 | 4818.9 | 4783.5 | 4775.2 | 4760.6 | 4758.6 | 4756.5 | 4756.5 | 4750.3 |
| 5°    | 4833.4  | 4787.7  | 4694.1 | 4642.0 | 4598.4 | 4594.2 | 4592.1 | 4602.6 | 4606.7 | 4610.8 | 4604.6 |
| 7.5°  | 4762.8  | 4700.4  | 4583.8 | 4508.9 | 4456.9 | 4444.4 | 4465.2 | 4513.1 | 4544.3 | 4556.7 | 4550.5 |
| 10°   | 4719.1  | 4642.0  | 4506.8 | 4425.7 | 4382.0 | 4375.8 | 4402.8 | 4458.9 | 4523.5 | 4548.4 | 4546.3 |
| 12.5° | 4669.1  | 4581.7  | 4438.2 | 4352.9 | 4327.9 | 4340.4 | 4375.8 | 4427.7 | 4494.3 | 4533.8 | 4536.0 |
| 15°   | 4619.1  | 4517.2  | 4369.4 | 4294.6 | 4284.2 | 4300.8 | 4334.1 | 4373.6 | 4425.7 | 4465.2 | 4469.4 |
| 17.5° | 4558.8  | 4452.7  | 4305.0 | 4228.0 | 4219.7 | 4228.0 | 4230.1 | 4250.9 | 4284.2 | 4321.7 | 4332.0 |
| 20°   | 4494.3  | 4386.1  | 4232.2 | 4155.1 | 4117.7 | 4084.4 | 4047.0 | 4051.1 | 4061.5 | 4099.0 | 4107.4 |
| 22.5° | 4448.5  | 4340.4  | 4176.0 | 4069.8 | 3970.0 | 3870.1 | 3795.2 | 3784.8 | 3789.0 | 3820.2 | 3830.5 |
| 25°   | 4452.7  | 4338.2  | 4161.4 | 3978.4 | 3759.9 | 3599.7 | 3499.7 | 3483.1 | 3481.0 | 3503.9 | 3518.4 |
| 27.5° | 4533.8  | 4419.5  | 4215.5 | 3884.7 | 3530.9 | 3293.8 | 3187.6 | 3175.1 | 3158.5 | 3164.7 | 3181.4 |
| 30°   | 4714.9  | 4608.8  | 4346.6 | 3789.0 | 3283.4 | 2994.2 | 2883.9 | 2871.4 | 2848.5 | 2838.1 | 2850.6 |
| 32.5° | 5010.3  | 4923.0  | 4538.0 | 3697.5 | 3035.7 | 2738.2 | 2625.8 | 2598.8 | 2584.3 | 2571.8 | 2582.1 |
| 35°   | 5501.4  | 5463.9  | 4794.0 | 3597.5 | 2817.3 | 2540.5 | 2438.6 | 2397.0 | 2376.2 | 2399.0 | 2415.7 |
| 37.5° | 6271.2  | 6292.1  | 5129.0 | 3441.5 | 2648.7 | 2409.5 | 2324.1 | 2276.3 | 2245.1 | 2263.8 | 2282.5 |
| 40°   | 7361.6  | 7376.1  | 5499.3 | 3221.0 | 2503.1 | 2332.4 | 2240.9 | 2197.2 | 2153.5 | 2120.3 | 2118.1 |
| 42.5° | 8793.1  | 8645.4  | 5863.5 | 2981.7 | 2334.6 | 2284.7 | 2182.7 | 2128.6 | 2062.0 | 1970.4 | 1951.7 |
| 45°   | 10490.9 | 9972.8  | 6140.2 | 2707.0 | 2145.2 | 2226.4 | 2118.1 | 2043.2 | 1939.2 | 1839.4 | 1828.9 |
| 47.5° | 12446.8 | 11398.1 | 6275.4 | 2421.9 | 1968.4 | 2141.0 | 2039.0 | 1920.5 | 1789.4 | 1739.4 | 1733.2 |
| 50°   | 14835.4 | 13089.7 | 6339.9 | 2145.2 | 1814.4 | 2028.7 | 1924.7 | 1785.3 | 1675.0 | 1664.5 | 1658.3 |
| 52.5° | 17555.0 | 15124.6 | 6360.7 | 1918.4 | 1687.5 | 1883.0 | 1831.0 | 1695.7 | 1608.4 | 1616.7 | 1616.7 |
| 55°   | 20401.3 | 17226.2 | 6077.8 | 1754.1 | 1570.9 | 1733.2 | 1768.6 | 1660.5 | 1587.6 | 1620.9 | 1633.3 |
| 57.5° | 23014.7 | 19088.4 | 5187.2 | 1627.1 | 1460.7 | 1618.8 | 1745.7 | 1693.7 | 1643.8 | 1779.0 | 1787.3 |
| 60°   | 25020.5 | 20189.1 | 3874.3 | 1512.6 | 1379.6 | 1579.2 | 1806.0 | 1820.6 | 1833.1 | 2155.6 | 2199.3 |
| 62.5° | 25440.8 | 19822.8 | 2663.3 | 1423.2 | 1342.0 | 1612.6 | 1916.3 | 1918.4 | 1903.8 | 2128.6 | 2155.6 |
| 65°   | 23512.0 | 17507.1 | 1937.2 | 1373.3 | 1310.8 | 1672.9 | 2010.0 | 1966.3 | 1870.6 | 2041.2 | 1991.3 |
| 67.5° | 18672.2 | 13189.6 | 1612.6 | 1335.8 | 1265.1 | 1668.7 | 2109.8 | 2010.0 | 1851.8 | 1999.6 | 1918.4 |
| 70°   | 12120.1 | 7975.3  | 1435.7 | 1304.6 | 1211.0 | 1589.7 | 2168.1 | 2005.8 | 1797.7 | 1860.1 | 1764.5 |
| 72.5° | 5913.4  | 3566.3  | 1317.0 | 1258.8 | 1154.8 | 1479.4 | 2166.0 | 1968.4 | 1741.6 | 1737.4 | 1685.4 |
| 75°   | 2313.7  | 1633.3  | 1208.9 | 1190.2 | 1059.1 | 1354.5 | 2107.8 | 1914.2 | 1675.0 | 1608.4 | 1589.7 |
| 77.5° | 1354.5  | 1165.2  | 1071.5 | 1088.2 | 944.6  | 1229.7 | 2022.5 | 1820.6 | 1583.4 | 1504.4 | 1483.6 |
| 80°   | 986.2   | 871.9   | 913.4  | 940.5  | 807.3  | 1104.9 | 1908.0 | 1706.2 | 1481.4 | 1521.0 | 1491.9 |
| 82.5° | 632.5   | 561.8   | 740.7  | 767.8  | 672.1  | 977.9  | 1783.2 | 1585.5 | 1337.9 | 1215.2 | 1186.0 |
| 85°   | 322.5   | 355.8   | 551.4  | 584.7  | 518.1  | 803.1  | 1631.3 | 1425.3 | 1175.6 | 1011.2 | 1027.9 |
| 87.5° | 181.1   | 243.5   | 351.6  | 393.2  | 366.2  | 618.0  | 1323.3 | 1175.6 | 959.2  | 780.3  | 686.6  |
| 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)