

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: P319042

Luminaire Tested: **GAN-SA8B-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45480 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

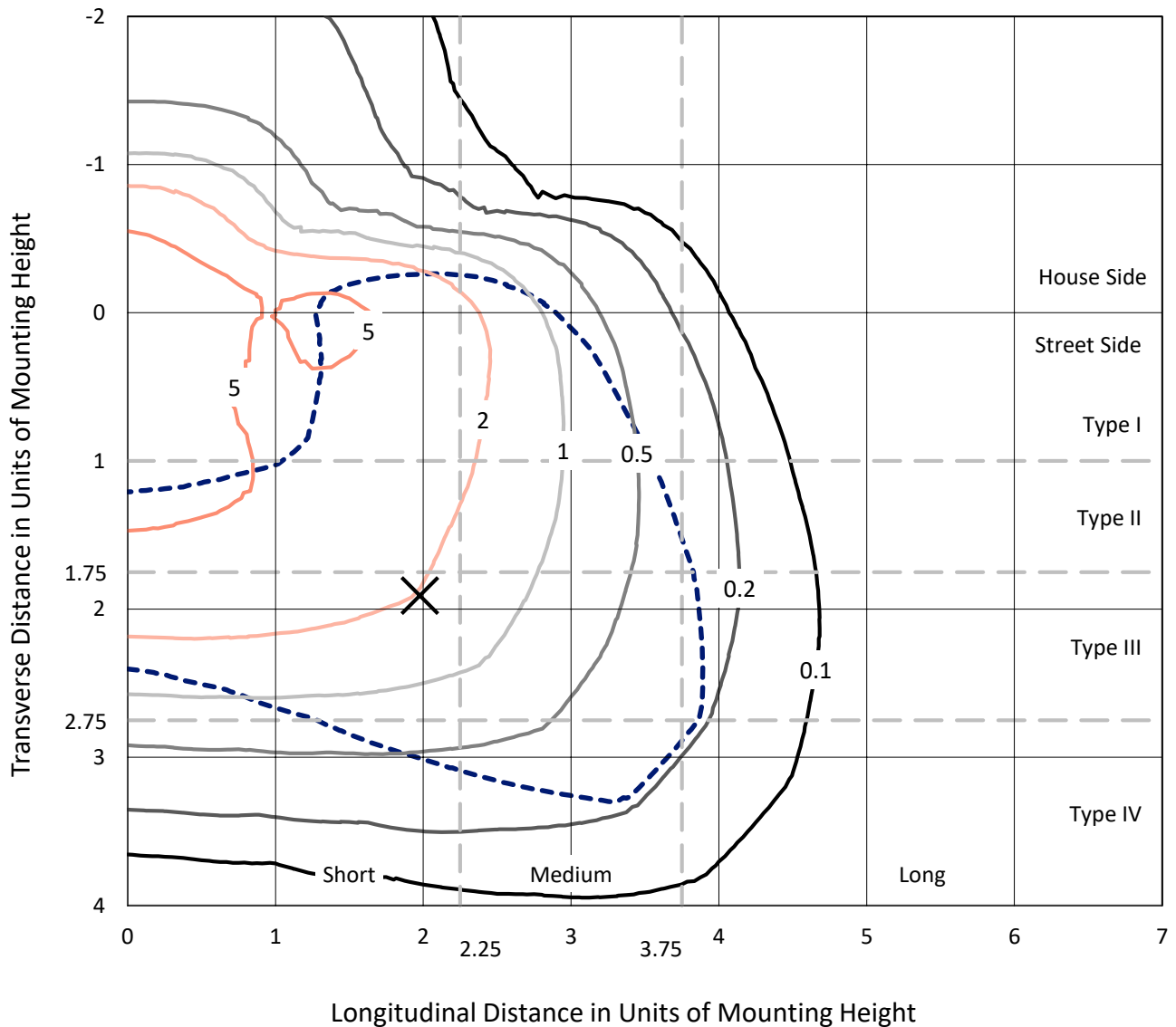
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

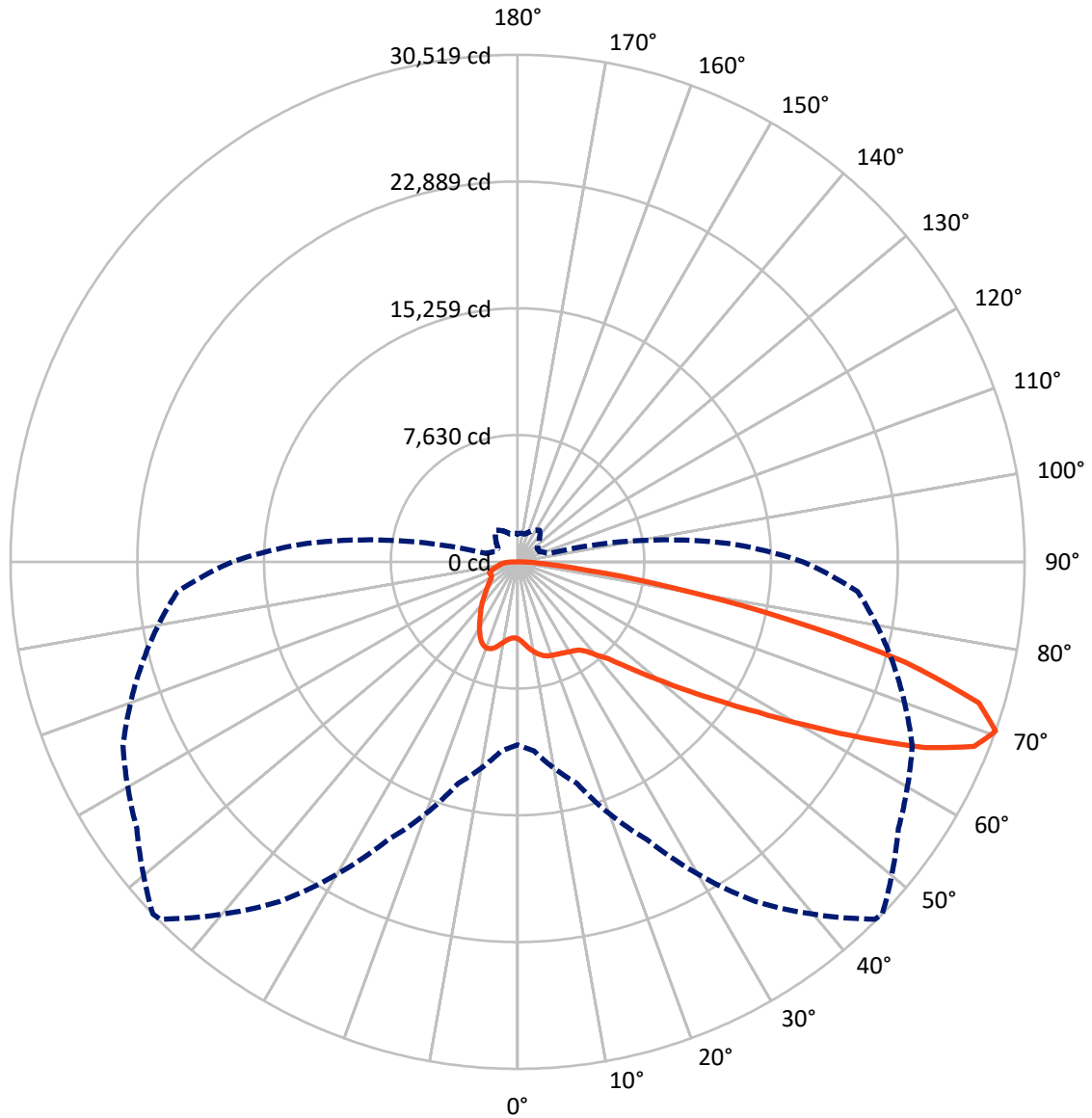
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10423.9  | 0.0    | 10423.9 |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 35056.1  | 0.0    | 35056.1 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 45480.0  | 0.0    | 45480.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 472.3   | 1.0       |
| 10°-20°   | 1573.7  | 3.5       |
| 20°-30°   | 2624.0  | 5.8       |
| 30°-40°   | 3723.7  | 8.2       |
| 40°-50°   | 5477.3  | 12.0      |
| 50°-60°   | 9275.8  | 20.4      |
| 60°-70°   | 13166.8 | 29.0      |
| 70°-80°   | 7999.0  | 17.6      |
| 80°-90°   | 1167.4  | 2.6       |
| 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°    | 45480.0 | 100.0     |
| 0°-180°   | 45480.0 | 100.0     |

**Coefficient of Utilization**

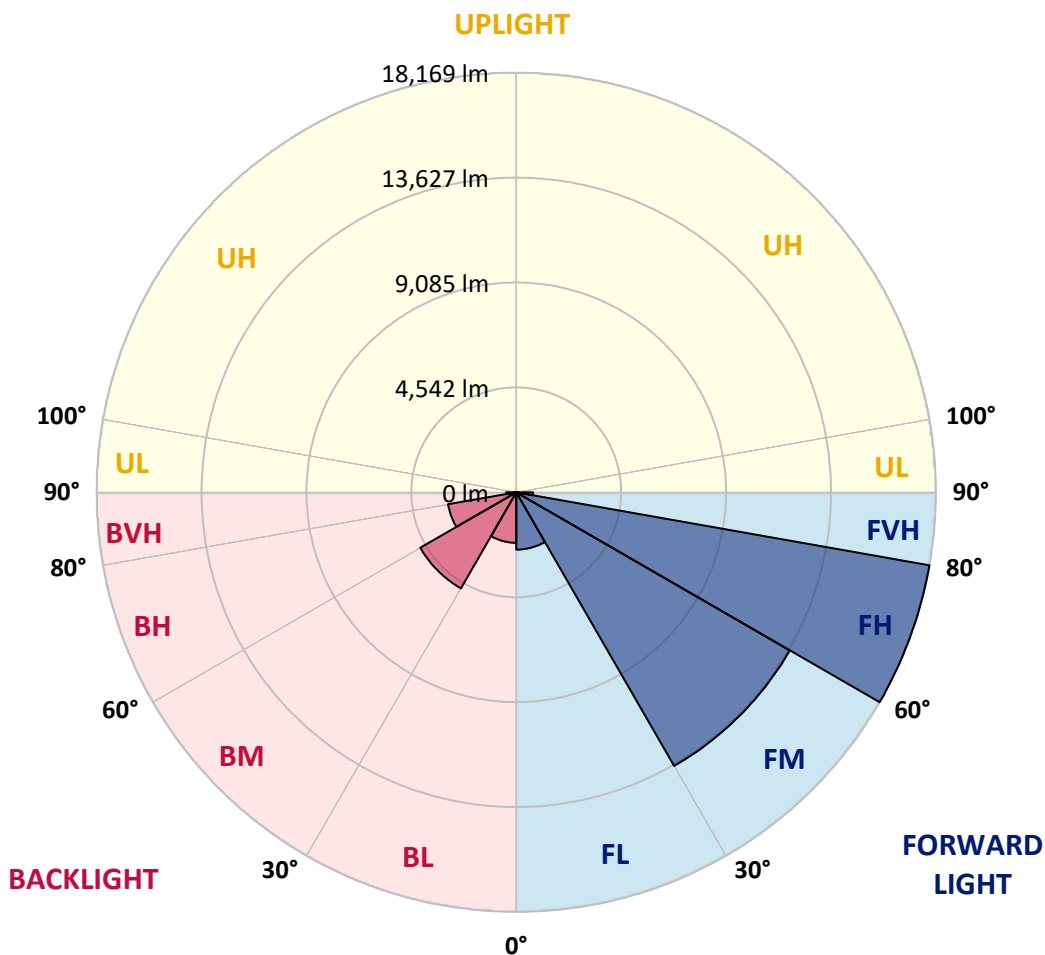


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2481.6  | 5.5       |                         |      |         |
| FM (30°-60°)   | 13678.4 | 30.1      |                         |      |         |
| FH (60°-80°)   | 18169.0 | 39.9      |                         |      | G5      |
| FVH (80°-90°)  | 727.2   | 1.6       |                         |      | G4/750  |
| BL (0°-30°)    | 2188.5  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4798.4  | 10.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2996.8  | 6.6       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 440.2   | 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°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  | 4633.5  |
| 2.5°  | 4865.4  | 4868.5  | 4874.8  | 4859.2  | 4815.6  | 4803.2  | 4798.5  | 4753.4  | 4723.8  | 4680.2  | 4642.9  |
| 5°    | 5254.5  | 5257.7  | 5248.3  | 5204.7  | 5108.2  | 5036.6  | 5030.4  | 4927.7  | 4834.3  | 4734.7  | 4660.0  |
| 7.5°  | 5660.8  | 5665.4  | 5635.9  | 5553.4  | 5418.0  | 5293.5  | 5285.7  | 5145.6  | 5004.0  | 4853.0  | 4740.9  |
| 10°   | 6020.3  | 6001.6  | 5953.4  | 5838.2  | 5677.9  | 5525.4  | 5519.1  | 5372.8  | 5209.4  | 5027.3  | 4877.9  |
| 12.5° | 6260.0  | 6244.4  | 6182.2  | 6042.1  | 5866.2  | 5726.1  | 5713.7  | 5578.3  | 5419.5  | 5220.3  | 5041.3  |
| 15°   | 6392.3  | 6403.2  | 6319.1  | 6160.4  | 5989.2  | 5870.9  | 5860.0  | 5763.5  | 5621.9  | 5421.1  | 5215.6  |
| 17.5° | 6409.4  | 6418.8  | 6337.8  | 6180.6  | 6040.5  | 5959.6  | 5954.9  | 5891.1  | 5788.4  | 5595.4  | 5380.6  |
| 20°   | 6309.8  | 6316.0  | 6249.1  | 6119.9  | 6028.1  | 6003.2  | 6001.6  | 5973.6  | 5897.4  | 5726.1  | 5517.6  |
| 22.5° | 6165.1  | 6169.7  | 6121.5  | 6028.1  | 5997.0  | 6035.9  | 6046.8  | 6035.9  | 5981.4  | 5821.1  | 5625.0  |
| 25°   | 6129.3  | 6126.1  | 6076.3  | 5981.4  | 6007.9  | 6090.3  | 6104.4  | 6109.0  | 6071.7  | 5931.6  | 5761.9  |
| 27.5° | 6302.0  | 6291.1  | 6196.2  | 6043.7  | 6060.8  | 6160.4  | 6179.1  | 6224.2  | 6200.9  | 6077.9  | 5917.6  |
| 30°   | 6801.6  | 6783.0  | 6588.4  | 6280.2  | 6196.2  | 6247.6  | 6270.9  | 6342.5  | 6347.2  | 6244.4  | 6124.6  |
| 32.5° | 7645.2  | 7621.9  | 7273.2  | 6722.3  | 6425.0  | 6336.3  | 6358.1  | 6465.5  | 6523.0  | 6443.7  | 6314.5  |
| 35°   | 8711.4  | 8684.9  | 8227.3  | 7474.0  | 6807.9  | 6505.9  | 6521.5  | 6607.1  | 6722.3  | 6610.2  | 6439.0  |
| 37.5° | 9822.7  | 9758.9  | 9318.4  | 8358.1  | 7416.4  | 6868.6  | 6868.6  | 6879.5  | 6933.9  | 6700.5  | 6585.3  |
| 40°   | 10927.8 | 10864.0 | 10465.5 | 9397.8  | 8204.0  | 7439.8  | 7404.0  | 7162.7  | 7119.2  | 6918.4  | 6879.5  |
| 42.5° | 11955.0 | 11936.3 | 11701.3 | 10572.9 | 9128.5  | 8001.7  | 7951.9  | 7542.5  | 7551.8  | 7427.3  | 7428.9  |
| 45°   | 13047.6 | 13047.6 | 12856.2 | 11758.9 | 10205.6 | 8904.4  | 8854.6  | 8252.2  | 8345.6  | 8288.0  | 8426.6  |
| 47.5° | 13939.5 | 13967.5 | 13941.0 | 12994.7 | 11458.5 | 10051.5 | 9961.2  | 9235.9  | 9497.4  | 9695.1  | 10098.2 |
| 50°   | 14850.0 | 14893.6 | 14898.2 | 14350.4 | 12972.9 | 11414.9 | 11312.2 | 10541.8 | 11125.4 | 11692.0 | 12484.2 |
| 52.5° | 16171.4 | 16269.5 | 15878.8 | 15702.9 | 14828.2 | 13033.6 | 12932.5 | 12221.2 | 13195.5 | 13990.8 | 15355.8 |
| 55°   | 17396.3 | 17310.7 | 17032.1 | 17141.1 | 16814.2 | 14876.5 | 14800.2 | 14176.1 | 15502.1 | 16535.6 | 18308.4 |
| 57.5° | 18059.4 | 18053.1 | 18333.3 | 18800.2 | 18955.9 | 17148.9 | 17085.0 | 16478.0 | 18103.0 | 18879.6 | 21080.4 |
| 60°   | 18837.6 | 18848.5 | 19542.7 | 20602.6 | 21243.8 | 19978.5 | 19950.4 | 19489.7 | 20629.1 | 21068.0 | 23254.8 |
| 62.5° | 18946.5 | 19142.7 | 20338.0 | 22162.1 | 23385.5 | 23284.3 | 23346.6 | 22202.6 | 22889.0 | 22814.3 | 24878.1 |
| 65°   | 17693.6 | 17952.0 | 20115.4 | 22633.8 | 25514.7 | 26900.0 | 26957.5 | 24931.1 | 24671.1 | 24306.9 | 25458.7 |
| 67.5° | 15125.5 | 15508.4 | 17858.6 | 21608.1 | 26216.7 | 29572.4 | 29653.3 | 27046.3 | 26149.7 | 24812.8 | 24061.0 |
| 70°   | 11007.1 | 11432.1 | 13797.8 | 18454.7 | 24965.3 | 30426.8 | 30518.7 | 27981.7 | 26205.8 | 23373.1 | 20540.3 |
| 72.5° | 6649.1  | 6982.2  | 8932.4  | 13586.2 | 21071.1 | 28870.4 | 29033.8 | 26795.7 | 23925.6 | 19797.9 | 15167.5 |
| 75°   | 2919.9  | 3137.8  | 4319.1  | 7828.9  | 15085.0 | 23886.7 | 24090.6 | 22935.7 | 19439.9 | 14387.7 | 8965.1  |
| 77.5° | 1243.6  | 1305.9  | 1771.2  | 3400.8  | 8527.7  | 16322.4 | 16602.5 | 16758.2 | 13189.3 | 7828.9  | 3788.4  |
| 80°   | 775.1   | 800.0   | 1002.3  | 1539.3  | 3990.7  | 9167.4  | 9469.4  | 9860.0  | 6549.5  | 2877.9  | 1323.0  |
| 82.5° | 471.6   | 499.6   | 666.2   | 930.8   | 2077.8  | 4155.7  | 4300.4  | 4575.9  | 2541.7  | 1243.6  | 684.8   |
| 85°   | 283.3   | 303.5   | 407.8   | 588.3   | 1182.9  | 1634.3  | 1632.7  | 1805.5  | 1196.9  | 800.0   | 361.1   |
| 87.5° | 135.4   | 151.0   | 217.9   | 305.1   | 596.1   | 613.2   | 574.3   | 650.6   | 726.9   | 524.5   | 182.1   |
| 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°    | 4633.5  | 4633.5  | 4633.5 | 4633.5 | 4633.5 | 4633.5 | 4633.5 | 4633.5 | 4633.5 | 4633.5 | 4633.5 |
| 2.5°  | 4630.4  | 4624.2  | 4603.9 | 4588.4 | 4585.3 | 4575.9 | 4568.2 | 4572.8 | 4579.0 | 4580.6 | 4580.6 |
| 5°    | 4628.9  | 4611.7  | 4585.3 | 4574.4 | 4588.4 | 4607.1 | 4630.4 | 4661.5 | 4680.2 | 4694.2 | 4703.6 |
| 7.5°  | 4703.6  | 4670.9  | 4641.3 | 4635.1 | 4663.1 | 4712.9 | 4765.8 | 4831.2 | 4876.3 | 4907.5 | 4913.7 |
| 10°   | 4828.1  | 4787.6  | 4758.0 | 4764.3 | 4814.1 | 4885.7 | 4960.4 | 5044.4 | 5112.9 | 5154.9 | 5158.0 |
| 12.5° | 4971.3  | 4932.4  | 4904.3 | 4930.8 | 5013.3 | 5100.5 | 5178.3 | 5251.4 | 5313.7 | 5355.7 | 5355.7 |
| 15°   | 5136.3  | 5108.2  | 5075.6 | 5136.3 | 5248.3 | 5326.1 | 5358.8 | 5394.6 | 5428.9 | 5460.0 | 5453.8 |
| 17.5° | 5295.0  | 5268.5  | 5251.4 | 5323.0 | 5439.8 | 5475.6 | 5453.8 | 5427.3 | 5427.3 | 5444.4 | 5447.5 |
| 20°   | 5432.0  | 5408.6  | 5419.5 | 5489.6 | 5550.3 | 5512.9 | 5432.0 | 5347.9 | 5313.7 | 5323.0 | 5332.4 |
| 22.5° | 5551.8  | 5540.9  | 5573.6 | 5606.3 | 5562.7 | 5432.0 | 5282.6 | 5168.9 | 5126.9 | 5123.8 | 5126.9 |
| 25°   | 5691.9  | 5690.3  | 5730.8 | 5671.7 | 5478.7 | 5237.4 | 5036.6 | 4926.1 | 4902.8 | 4921.5 | 4952.6 |
| 27.5° | 5866.2  | 5883.3  | 5903.6 | 5687.2 | 5307.5 | 4943.3 | 4739.4 | 4663.1 | 4686.4 | 4731.6 | 4761.1 |
| 30°   | 6088.8  | 6135.5  | 6091.9 | 5648.3 | 5061.5 | 4607.1 | 4412.5 | 4390.7 | 4454.5 | 4518.3 | 4549.5 |
| 32.5° | 6305.1  | 6378.3  | 6272.5 | 5547.2 | 4744.0 | 4250.6 | 4099.7 | 4093.4 | 4171.3 | 4233.5 | 4277.1 |
| 35°   | 6479.5  | 6624.2  | 6407.9 | 5346.4 | 4376.7 | 3922.2 | 3811.7 | 3769.7 | 3797.7 | 3870.9 | 3920.7 |
| 37.5° | 6706.7  | 6947.9  | 6501.2 | 5039.8 | 3978.3 | 3651.4 | 3522.2 | 3425.7 | 3400.8 | 3430.4 | 3455.3 |
| 40°   | 7122.3  | 7441.3  | 6544.8 | 4611.7 | 3589.2 | 3380.6 | 3249.8 | 3108.2 | 3010.2 | 2938.6 | 2940.1 |
| 42.5° | 7800.9  | 8084.1  | 6516.8 | 4091.9 | 3229.6 | 3116.0 | 2968.1 | 2804.7 | 2645.9 | 2484.1 | 2471.6 |
| 45°   | 8902.8  | 9039.8  | 6432.8 | 3540.9 | 2913.7 | 2838.9 | 2700.4 | 2537.0 | 2325.3 | 2141.7 | 2124.5 |
| 47.5° | 10666.3 | 10362.8 | 6302.0 | 3060.0 | 2635.1 | 2603.9 | 2476.3 | 2288.0 | 2063.8 | 1916.0 | 1903.5 |
| 50°   | 13071.0 | 12272.5 | 6238.2 | 2677.1 | 2389.1 | 2398.5 | 2294.2 | 2095.0 | 1883.3 | 1774.3 | 1761.9 |
| 52.5° | 15947.3 | 14496.7 | 6361.2 | 2381.4 | 2191.5 | 2224.2 | 2146.3 | 1959.6 | 1782.1 | 1696.5 | 1684.1 |
| 55°   | 18931.0 | 16800.2 | 6493.5 | 2166.6 | 2004.7 | 2068.5 | 2042.0 | 1888.0 | 1727.6 | 1648.3 | 1637.4 |
| 57.5° | 21485.1 | 18520.1 | 6228.9 | 1992.2 | 1838.2 | 1937.8 | 1961.1 | 1842.8 | 1699.6 | 1628.0 | 1615.6 |
| 60°   | 23092.9 | 19212.7 | 5534.7 | 1828.8 | 1705.9 | 1833.5 | 1914.4 | 1830.4 | 1710.5 | 1704.3 | 1695.0 |
| 62.5° | 23855.6 | 19152.0 | 4493.4 | 1699.6 | 1623.4 | 1788.3 | 1948.7 | 1900.4 | 1835.0 | 1891.1 | 1895.7 |
| 65°   | 23513.1 | 18236.8 | 3346.3 | 1614.0 | 1564.2 | 1805.5 | 2051.4 | 2032.7 | 1870.8 | 1926.9 | 1934.7 |
| 67.5° | 21259.4 | 16053.1 | 2477.9 | 1539.3 | 1498.9 | 1853.7 | 2238.2 | 2076.3 | 1800.8 | 1841.3 | 1816.4 |
| 70°   | 17183.1 | 12727.0 | 1911.3 | 1455.3 | 1431.9 | 1847.5 | 2322.2 | 2049.8 | 1724.5 | 1733.9 | 1666.9 |
| 72.5° | 11849.2 | 8678.7  | 1554.9 | 1377.4 | 1335.4 | 1684.1 | 2263.1 | 1984.5 | 1660.7 | 1589.1 | 1500.4 |
| 75°   | 6443.7  | 4658.4  | 1321.4 | 1296.5 | 1165.8 | 1478.6 | 2154.1 | 1937.8 | 1603.1 | 1508.2 | 1458.4 |
| 77.5° | 2535.4  | 1933.1  | 1147.1 | 1186.0 | 1019.5 | 1305.9 | 2032.7 | 1849.1 | 1523.8 | 1399.2 | 1374.3 |
| 80°   | 1035.0  | 986.8   | 951.0  | 1025.7 | 876.3  | 1142.4 | 1886.4 | 1744.8 | 1428.8 | 1298.1 | 1248.3 |
| 82.5° | 586.8   | 613.2   | 739.3  | 809.3  | 711.3  | 1052.2 | 1816.4 | 1660.7 | 1315.2 | 1162.7 | 1103.5 |
| 85°   | 300.4   | 359.5   | 515.2  | 580.6  | 523.0  | 895.0  | 1673.2 | 1453.7 | 1055.3 | 890.3  | 895.0  |
| 87.5° | 144.7   | 200.8   | 325.3  | 364.2  | 339.3  | 647.5  | 1249.8 | 1053.7 | 821.8  | 650.6  | 630.4  |
| 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)