

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: P194127

Luminaire Tested: **GAN-AF-09-LED-U-T4W-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194127  
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-09-LED-U-T4W-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47302 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

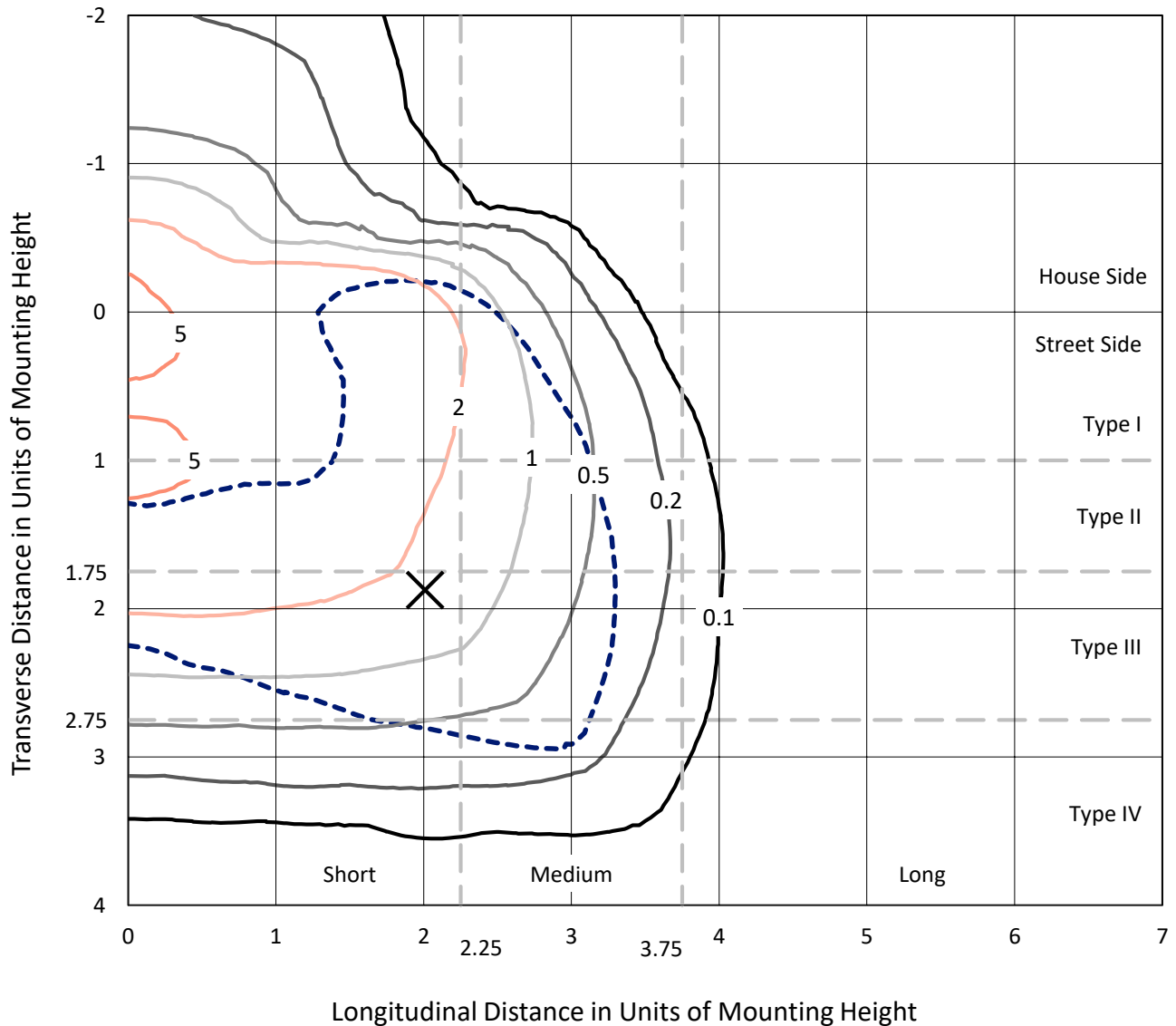
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

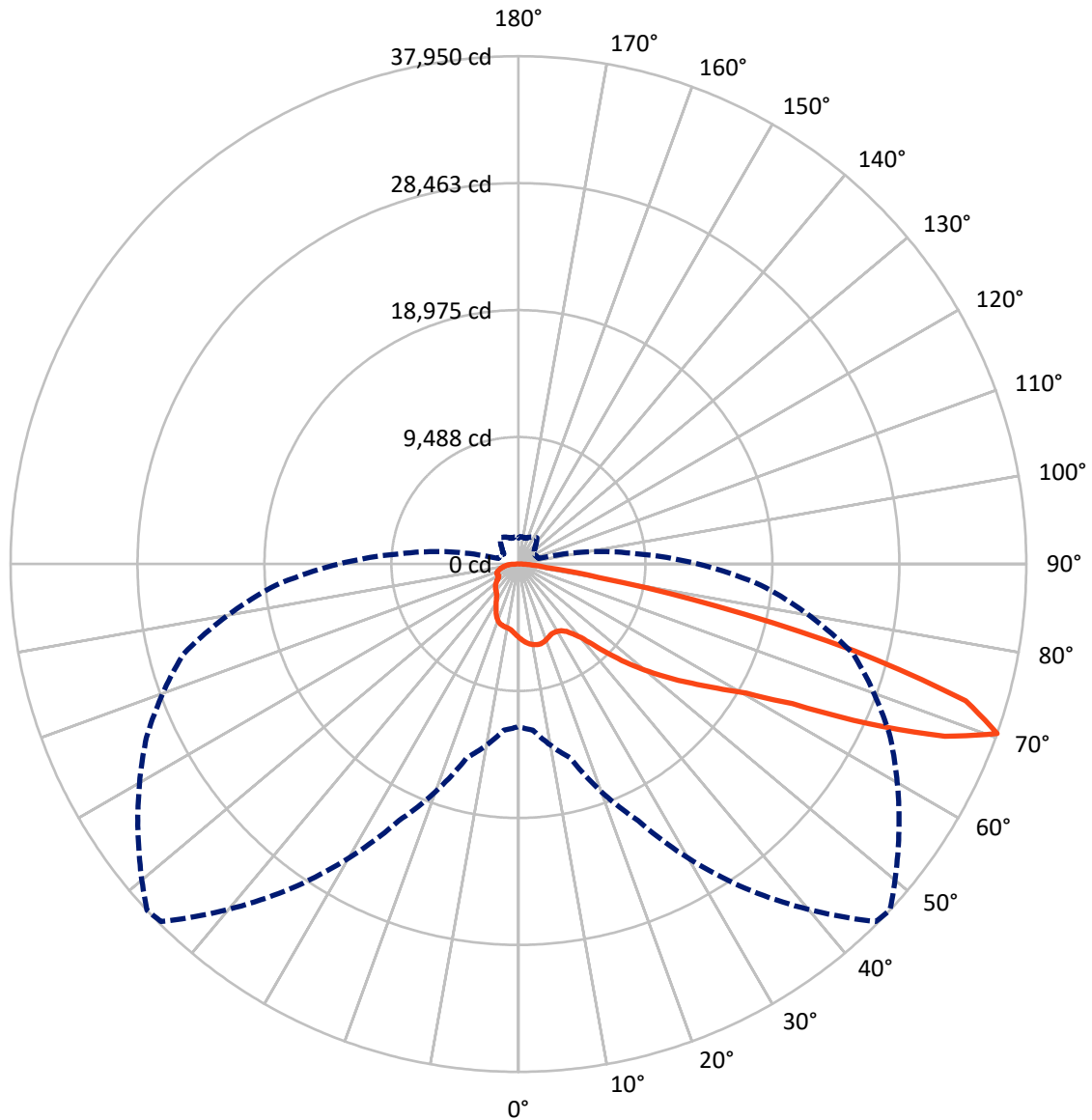


Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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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    | 9868.1   | 0.0    | 9868.1  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 37433.9  | 0.0    | 37433.9 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 47302.0  | 0.0    | 47302.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 525.9   | 1.1       |
| 10°-20°   | 1542.8  | 3.3       |
| 20°-30°   | 2278.3  | 4.8       |
| 30°-40°   | 3311.5  | 7.0       |
| 40°-50°   | 5959.6  | 12.6      |
| 50°-60°   | 10324.4 | 21.8      |
| 60°-70°   | 14735.8 | 31.2      |
| 70°-80°   | 7564.6  | 16.0      |
| 80°-90°   | 1059.1  | 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°    | 47302.0 | 100.0     |
| 0°-180°   | 47302.0 | 100.0     |

**Coefficient of Utilization**



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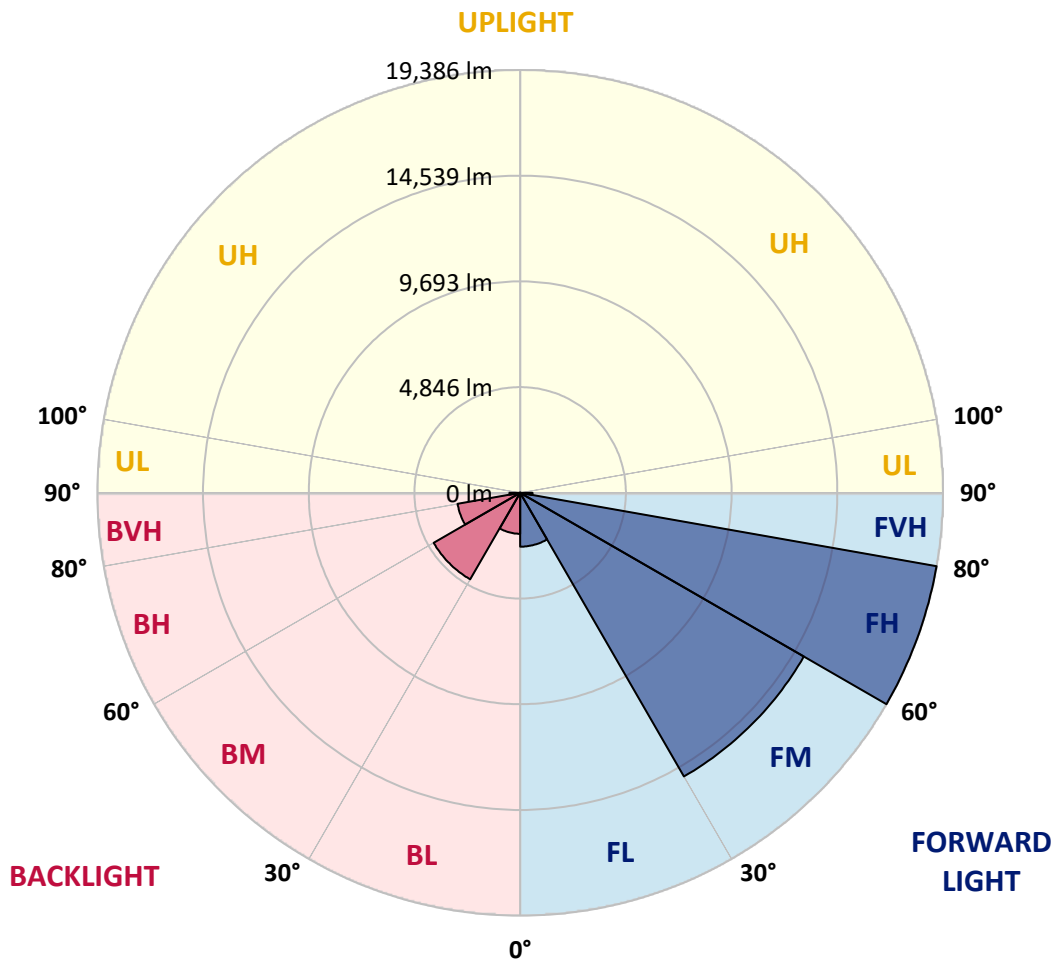
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2468.1  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 15015.0 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 19385.7 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 565.1   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1878.9  | 4.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4580.5  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2914.8  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 493.9   | 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°    | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  | 5488.5  |
| 2.5°  | 5810.7  | 5799.2  | 5794.6  | 5785.4  | 5773.9  | 5716.3  | 5704.8  | 5663.4  | 5605.9  | 5546.0  | 5483.9  |
| 5°    | 6192.7  | 6190.4  | 6165.1  | 6119.0  | 6045.4  | 5918.8  | 5888.9  | 5787.7  | 5651.9  | 5520.7  | 5389.6  |
| 7.5°  | 6528.7  | 6508.0  | 6459.6  | 6367.6  | 6238.7  | 6066.1  | 6024.7  | 5884.3  | 5697.9  | 5518.4  | 5341.2  |
| 10°   | 6774.9  | 6763.4  | 6657.5  | 6531.0  | 6363.0  | 6172.0  | 6123.7  | 5967.2  | 5762.4  | 5534.5  | 5313.6  |
| 12.5° | 6915.3  | 6892.3  | 6770.3  | 6618.4  | 6418.2  | 6231.8  | 6183.5  | 6024.7  | 5794.6  | 5534.5  | 5274.5  |
| 15°   | 6906.1  | 6890.0  | 6768.0  | 6602.3  | 6399.8  | 6236.4  | 6192.7  | 6033.9  | 5787.7  | 5511.5  | 5223.9  |
| 17.5° | 6722.0  | 6728.9  | 6625.3  | 6461.9  | 6296.2  | 6172.0  | 6132.9  | 5985.6  | 5741.6  | 5465.5  | 5164.0  |
| 20°   | 6399.8  | 6432.0  | 6363.0  | 6218.0  | 6126.0  | 6040.8  | 6015.5  | 5891.2  | 5670.3  | 5398.8  | 5099.6  |
| 22.5° | 6077.6  | 6107.5  | 6079.9  | 5958.0  | 5944.2  | 5893.5  | 5879.7  | 5790.0  | 5608.2  | 5357.3  | 5060.5  |
| 25°   | 5840.6  | 5868.2  | 5863.6  | 5757.8  | 5799.2  | 5796.9  | 5785.4  | 5741.6  | 5594.4  | 5357.3  | 5067.4  |
| 27.5° | 5776.2  | 5785.4  | 5776.2  | 5679.5  | 5737.0  | 5783.1  | 5773.9  | 5767.0  | 5635.8  | 5424.1  | 5154.8  |
| 30°   | 5997.1  | 5983.3  | 5911.9  | 5716.3  | 5769.3  | 5833.7  | 5824.5  | 5829.1  | 5760.1  | 5599.0  | 5350.4  |
| 32.5° | 6878.5  | 6816.3  | 6590.8  | 6040.8  | 5900.4  | 5934.9  | 5939.6  | 6015.5  | 6027.0  | 5868.2  | 5654.2  |
| 35°   | 8197.1  | 8128.0  | 7835.8  | 6910.7  | 6307.8  | 6188.1  | 6188.1  | 6303.2  | 6372.2  | 6254.8  | 6126.0  |
| 37.5° | 9594.0  | 9518.0  | 9361.5  | 8116.5  | 7163.8  | 6627.6  | 6616.1  | 6696.7  | 6795.6  | 6823.2  | 6855.5  |
| 40°   | 11181.8 | 11101.3 | 11145.0 | 9469.7  | 8358.2  | 7389.3  | 7226.0  | 7168.4  | 7435.4  | 7612.6  | 7870.3  |
| 42.5° | 12919.3 | 12882.5 | 12898.6 | 10977.0 | 9718.2  | 8528.5  | 8296.0  | 7999.2  | 8321.4  | 8636.6  | 9177.4  |
| 45°   | 14527.9 | 14560.1 | 14544.0 | 12590.2 | 11232.4 | 9918.4  | 9672.2  | 9096.9  | 9412.2  | 9952.9  | 10834.3 |
| 47.5° | 15936.2 | 15802.8 | 16009.9 | 14353.0 | 12928.5 | 11474.1 | 11170.3 | 10399.4 | 10719.3 | 11386.6 | 12877.8 |
| 50°   | 17646.1 | 17627.6 | 17323.9 | 16704.8 | 14978.9 | 13036.6 | 12638.5 | 11745.6 | 12242.7 | 13170.1 | 15453.0 |
| 52.5° | 19443.3 | 19109.7 | 18831.2 | 18534.3 | 17153.6 | 14638.3 | 14150.4 | 13087.3 | 14033.1 | 15199.8 | 18591.9 |
| 55°   | 19811.5 | 19662.0 | 20007.2 | 20506.5 | 19250.0 | 16302.1 | 15733.7 | 14769.5 | 16049.0 | 17519.5 | 22211.8 |
| 57.5° | 20598.6 | 20596.3 | 21309.7 | 22200.3 | 21408.6 | 18067.2 | 17494.2 | 16801.5 | 18315.7 | 20177.4 | 26054.9 |
| 60°   | 21130.2 | 21279.7 | 22605.3 | 24333.5 | 23528.1 | 20106.1 | 19579.1 | 19146.5 | 20893.1 | 23148.4 | 29635.6 |
| 62.5° | 21408.6 | 21611.1 | 23419.9 | 25198.8 | 26524.3 | 23500.5 | 22973.5 | 22349.8 | 24303.6 | 26407.0 | 31729.8 |
| 65°   | 20251.1 | 20649.2 | 23293.4 | 25946.7 | 29147.8 | 29002.8 | 28765.7 | 27670.3 | 28567.8 | 28982.1 | 30972.7 |
| 67.5° | 17047.7 | 17455.1 | 20534.1 | 25249.4 | 31021.0 | 34309.5 | 34360.1 | 32489.2 | 31191.3 | 29203.0 | 26041.1 |
| 70°   | 12146.0 | 12465.9 | 15013.4 | 21169.3 | 29594.2 | 37777.5 | 37950.1 | 34709.9 | 30668.9 | 25898.4 | 18193.8 |
| 72.5° | 5767.0  | 5962.6  | 8374.3  | 13777.6 | 23484.4 | 34613.2 | 34946.9 | 31874.7 | 26077.9 | 19174.1 | 9925.3  |
| 75°   | 2119.5  | 2179.3  | 2830.5  | 5861.3  | 13621.2 | 25525.6 | 25919.1 | 22849.2 | 17287.1 | 9545.6  | 3781.0  |
| 77.5° | 1270.3  | 1309.4  | 1587.9  | 2473.9  | 5357.3  | 14590.0 | 15172.2 | 12426.8 | 7555.0  | 3553.1  | 1859.4  |
| 80°   | 888.3   | 915.9   | 1139.1  | 1539.5  | 2531.4  | 5559.8  | 6077.6  | 5072.0  | 3010.0  | 2248.3  | 1353.1  |
| 82.5° | 600.6   | 614.4   | 800.8   | 1040.2  | 1682.2  | 1986.0  | 2142.5  | 2255.2  | 2029.7  | 1673.0  | 858.4   |
| 85°   | 393.5   | 407.3   | 543.1   | 685.8   | 1070.1  | 1026.4  | 1049.4  | 1327.8  | 1482.0  | 1136.8  | 476.4   |
| 87.5° | 225.5   | 234.7   | 326.8   | 365.9   | 524.7   | 434.9   | 439.5   | 699.6   | 948.1   | 766.3   | 290.0   |
| 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°    | 5488.5  | 5488.5  | 5488.5 | 5488.5 | 5488.5 | 5488.5 | 5488.5 | 5488.5 | 5488.5 | 5488.5 | 5488.5 |
| 2.5°  | 5467.8  | 5437.9  | 5371.1 | 5329.7 | 5290.6 | 5281.4 | 5265.3 | 5263.0 | 5260.7 | 5260.7 | 5253.8 |
| 5°    | 5345.8  | 5295.2  | 5191.6 | 5134.1 | 5085.8 | 5081.2 | 5078.9 | 5090.4 | 5095.0 | 5099.6 | 5092.7 |
| 7.5°  | 5267.6  | 5198.5  | 5069.7 | 4986.8 | 4929.3 | 4915.5 | 4938.5 | 4991.4 | 5026.0 | 5039.8 | 5032.9 |
| 10°   | 5219.3  | 5134.1  | 4984.5 | 4894.8 | 4846.5 | 4839.5 | 4869.5 | 4931.6 | 5002.9 | 5030.6 | 5028.3 |
| 12.5° | 5164.0  | 5067.4  | 4908.6 | 4814.2 | 4786.6 | 4800.4 | 4839.5 | 4897.1 | 4970.7 | 5014.4 | 5016.7 |
| 15°   | 5108.8  | 4996.0  | 4832.6 | 4749.8 | 4738.3 | 4756.7 | 4793.5 | 4837.2 | 4894.8 | 4938.5 | 4943.1 |
| 17.5° | 5042.1  | 4924.7  | 4761.3 | 4676.2 | 4667.0 | 4676.2 | 4678.5 | 4701.5 | 4738.3 | 4779.7 | 4791.2 |
| 20°   | 4970.7  | 4851.1  | 4680.8 | 4595.6 | 4554.2 | 4517.4 | 4476.0 | 4480.6 | 4492.1 | 4533.5 | 4542.7 |
| 22.5° | 4920.1  | 4800.4  | 4618.6 | 4501.3 | 4390.8 | 4280.3 | 4197.5 | 4186.0 | 4190.6 | 4225.1 | 4236.6 |
| 25°   | 4924.7  | 4798.1  | 4602.5 | 4400.0 | 4158.4 | 3981.2 | 3870.7 | 3852.3 | 3850.0 | 3875.3 | 3891.4 |
| 27.5° | 5014.4  | 4887.9  | 4662.4 | 4296.5 | 3905.2 | 3642.9 | 3525.5 | 3511.7 | 3493.3 | 3500.2 | 3518.6 |
| 30°   | 5214.7  | 5097.3  | 4807.3 | 4190.6 | 3631.4 | 3311.5 | 3189.5 | 3175.7 | 3150.4 | 3138.9 | 3152.7 |
| 32.5° | 5541.4  | 5444.8  | 5019.0 | 4089.3 | 3357.5 | 3028.5 | 2904.2 | 2874.3 | 2858.2 | 2844.4 | 2855.9 |
| 35°   | 6084.5  | 6043.1  | 5302.1 | 3978.9 | 3115.9 | 2809.8 | 2697.1 | 2651.1 | 2628.0 | 2653.4 | 2671.8 |
| 37.5° | 6936.0  | 6959.0  | 5672.6 | 3806.3 | 2929.5 | 2664.9 | 2570.5 | 2517.6 | 2483.1 | 2503.8 | 2524.5 |
| 40°   | 8141.9  | 8158.0  | 6082.2 | 3562.4 | 2768.4 | 2579.7 | 2478.5 | 2430.1 | 2381.8 | 2345.0 | 2342.7 |
| 42.5° | 9725.1  | 9561.7  | 6485.0 | 3297.7 | 2582.0 | 2526.8 | 2414.0 | 2354.2 | 2280.5 | 2179.3 | 2158.6 |
| 45°   | 11603.0 | 11029.9 | 6791.0 | 2993.9 | 2372.6 | 2462.3 | 2342.7 | 2259.8 | 2144.8 | 2034.3 | 2022.8 |
| 47.5° | 13766.1 | 12606.3 | 6940.6 | 2678.7 | 2177.0 | 2368.0 | 2255.2 | 2124.1 | 1979.1 | 1923.9 | 1916.9 |
| 50°   | 16408.0 | 14477.2 | 7011.9 | 2372.6 | 2006.7 | 2243.7 | 2128.7 | 1974.5 | 1852.5 | 1841.0 | 1834.1 |
| 52.5° | 19415.7 | 16727.9 | 7035.0 | 2121.8 | 1866.3 | 2082.6 | 2025.1 | 1875.5 | 1778.9 | 1788.1 | 1788.1 |
| 55°   | 22563.9 | 19052.1 | 6722.0 | 1940.0 | 1737.5 | 1916.9 | 1956.1 | 1836.4 | 1755.9 | 1792.7 | 1806.5 |
| 57.5° | 25454.2 | 21111.8 | 5737.0 | 1799.6 | 1615.5 | 1790.4 | 1930.8 | 1873.2 | 1818.0 | 1967.6 | 1976.8 |
| 60°   | 27672.6 | 22329.1 | 4284.9 | 1673.0 | 1525.7 | 1746.7 | 1997.5 | 2013.6 | 2027.4 | 2384.1 | 2432.4 |
| 62.5° | 28137.5 | 21924.1 | 2945.6 | 1574.1 | 1484.3 | 1783.5 | 2119.5 | 2121.8 | 2105.7 | 2354.2 | 2384.1 |
| 65°   | 26004.2 | 19362.8 | 2142.5 | 1518.8 | 1449.8 | 1850.2 | 2223.0 | 2174.7 | 2068.8 | 2257.5 | 2202.3 |
| 67.5° | 20651.5 | 14587.7 | 1783.5 | 1477.4 | 1399.2 | 1845.6 | 2333.5 | 2223.0 | 2048.1 | 2211.5 | 2121.8 |
| 70°   | 13404.8 | 8820.7  | 1587.9 | 1442.9 | 1339.3 | 1758.2 | 2397.9 | 2218.4 | 1988.3 | 2057.3 | 1951.5 |
| 72.5° | 6540.2  | 3944.4  | 1456.7 | 1392.3 | 1277.2 | 1636.2 | 2395.6 | 2177.0 | 1926.2 | 1921.6 | 1864.0 |
| 75°   | 2559.0  | 1806.5  | 1337.0 | 1316.3 | 1171.3 | 1498.1 | 2331.2 | 2117.2 | 1852.5 | 1778.9 | 1758.2 |
| 77.5° | 1498.1  | 1288.7  | 1185.1 | 1203.6 | 1044.8 | 1360.0 | 2236.8 | 2013.6 | 1751.3 | 1663.8 | 1640.8 |
| 80°   | 1090.8  | 964.2   | 1010.3 | 1040.2 | 892.9  | 1222.0 | 2110.3 | 1887.0 | 1638.5 | 1682.2 | 1650.0 |
| 82.5° | 699.6   | 621.3   | 819.2  | 849.2  | 743.3  | 1081.6 | 1972.2 | 1753.6 | 1479.7 | 1343.9 | 1311.7 |
| 85°   | 356.7   | 393.5   | 609.8  | 646.7  | 573.0  | 888.3  | 1804.2 | 1576.4 | 1300.2 | 1118.4 | 1136.8 |
| 87.5° | 200.2   | 269.2   | 388.9  | 434.9  | 405.0  | 683.5  | 1463.6 | 1300.2 | 1060.9 | 863.0  | 759.4  |
| 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)