

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: P191496

Luminaire Tested: **GAN-AF-08-LED-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191496  
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-08-LED-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49895.4 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

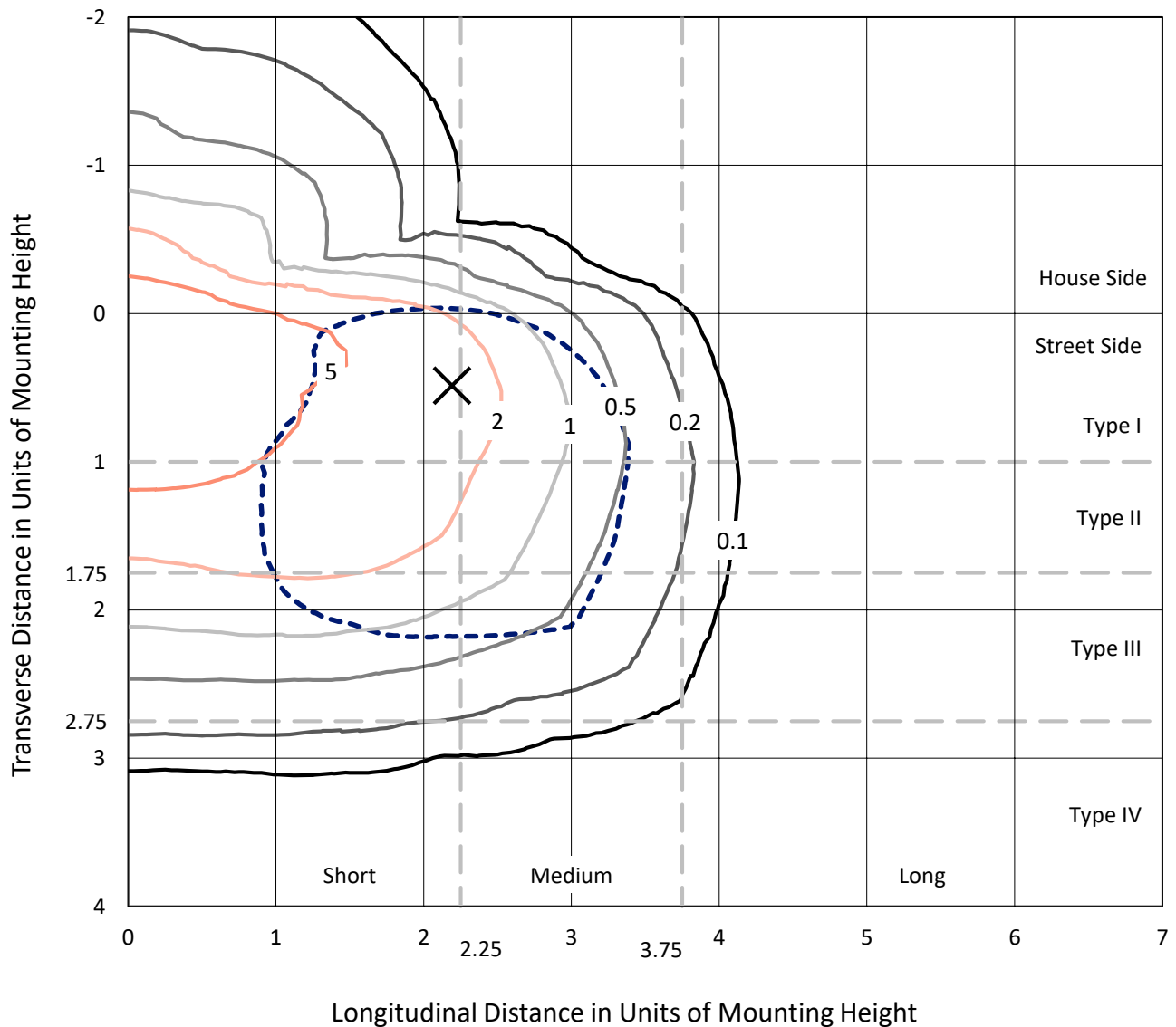
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

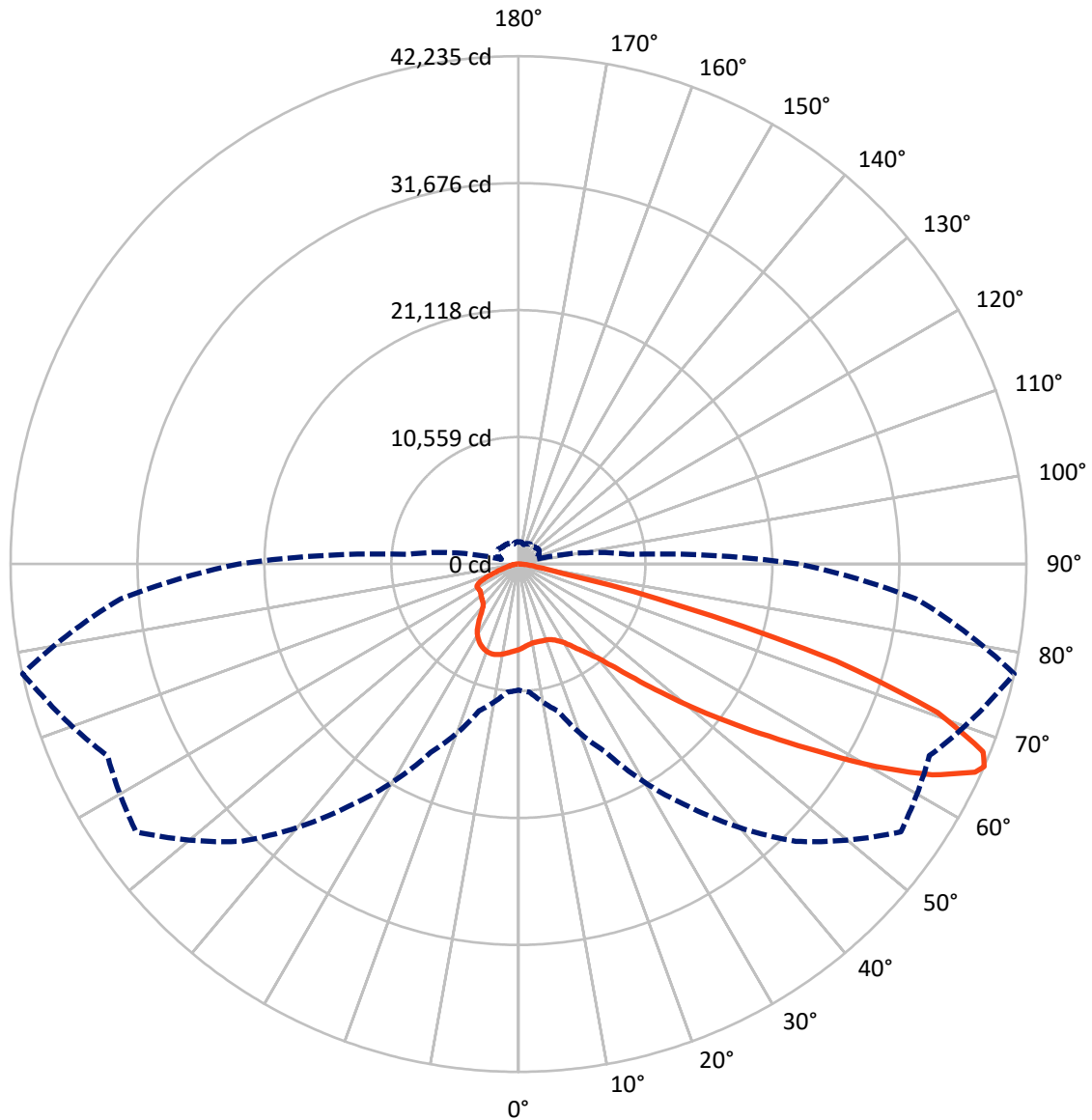
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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    | 8524.3   | 0.0    | 8524.3  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 41371.1  | 0.0    | 41371.1 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 49895.4  | 0.0    | 49895.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 635.2   | 1.3       |
| 10°-20°   | 1792.1  | 3.6       |
| 20°-30°   | 3058.6  | 6.1       |
| 30°-40°   | 4896.2  | 9.8       |
| 40°-50°   | 7564.2  | 15.2      |
| 50°-60°   | 10728.7 | 21.5      |
| 60°-70°   | 14352.0 | 28.8      |
| 70°-80°   | 6232.8  | 12.5      |
| 80°-90°   | 635.5   | 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°    | 49895.4 | 100.0     |
| 0°-180°   | 49895.4 | 100.0     |

**Coefficient of Utilization**



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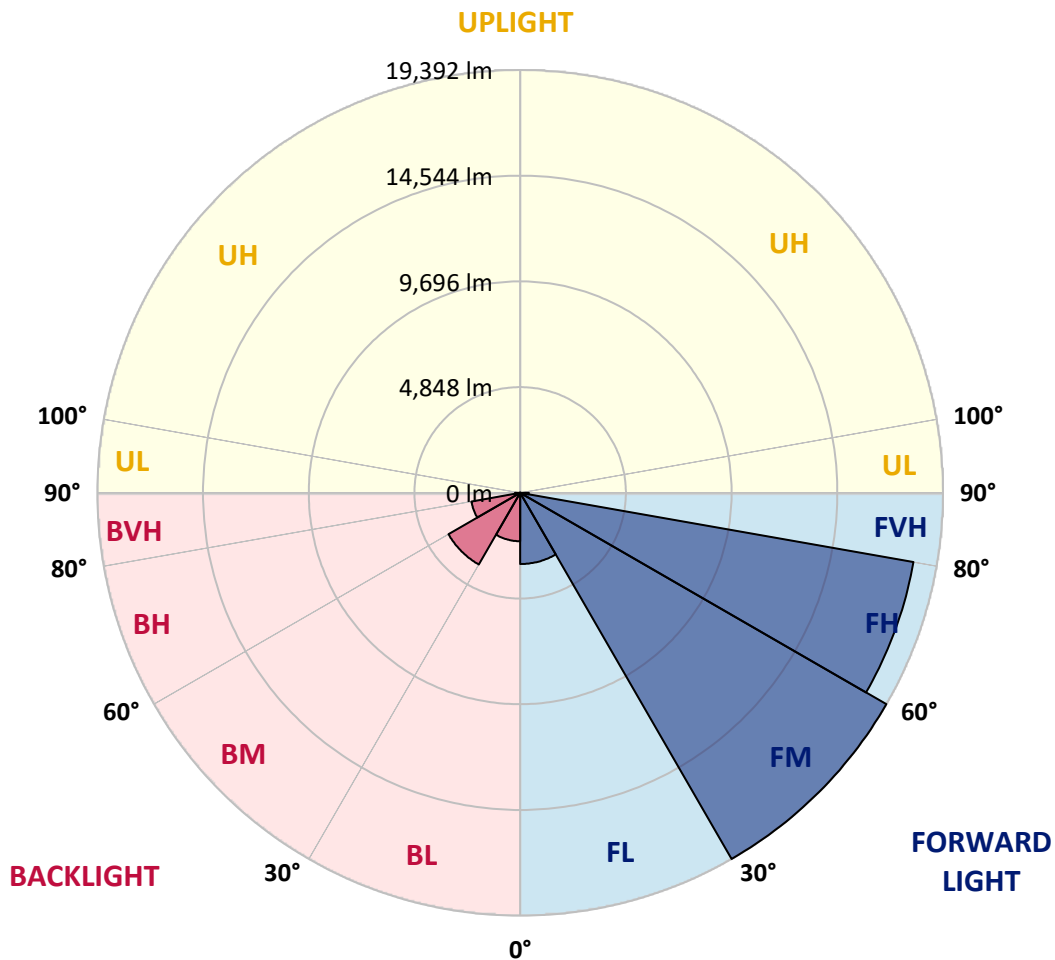
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3265.9  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 19392.0 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 18314.7 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 398.6   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2220.1  | 4.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3797.1  | 7.6       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2270.2  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 236.9   | 0.5       |                         |      | G3/500  |
| 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°    | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  | 7110.3  |
| 2.5°  | 6289.9  | 6332.4  | 6367.7  | 6400.7  | 6466.7  | 6575.2  | 6700.1  | 6801.5  | 6947.7  | 6975.9  | 7053.8  |
| 5°    | 5712.4  | 5712.4  | 5740.6  | 5790.1  | 5879.7  | 6042.4  | 6212.1  | 6438.5  | 6756.7  | 6832.2  | 7039.6  |
| 7.5°  | 5431.8  | 5434.1  | 5450.6  | 5493.0  | 5570.9  | 5719.4  | 5905.6  | 6172.1  | 6603.5  | 6728.5  | 7082.1  |
| 10°   | 5535.5  | 5512.0  | 5476.6  | 5455.4  | 5467.2  | 5554.3  | 5731.2  | 6028.2  | 6509.1  | 6669.4  | 7176.3  |
| 12.5° | 6115.5  | 6070.7  | 5948.0  | 5785.4  | 5629.8  | 5566.2  | 5669.9  | 5959.8  | 6469.0  | 6655.3  | 7301.3  |
| 15°   | 7063.2  | 7044.3  | 6815.6  | 6478.6  | 6101.3  | 5785.4  | 5714.7  | 5933.9  | 6473.8  | 6671.8  | 7449.8  |
| 17.5° | 8251.4  | 8225.4  | 7923.7  | 7433.3  | 6818.0  | 6202.7  | 5872.7  | 5955.1  | 6490.3  | 6700.1  | 7593.7  |
| 20°   | 9451.3  | 9371.3  | 9045.9  | 8461.2  | 7671.4  | 6770.8  | 6134.3  | 6009.3  | 6511.5  | 6730.8  | 7744.6  |
| 22.5° | 10347.2 | 10281.3 | 9988.9  | 9420.8  | 8510.7  | 7428.6  | 6485.6  | 6103.6  | 6579.9  | 6820.3  | 7930.7  |
| 25°   | 11134.6 | 11139.4 | 10849.4 | 10300.1 | 9359.4  | 8126.4  | 6938.3  | 6355.9  | 6754.3  | 7004.2  | 8185.3  |
| 27.5° | 12108.4 | 12051.7 | 11780.6 | 11236.0 | 10198.7 | 8831.3  | 7485.2  | 6702.5  | 7013.7  | 7265.9  | 8520.2  |
| 30°   | 13273.0 | 13232.9 | 12919.4 | 12301.6 | 11129.9 | 9588.1  | 8110.0  | 7105.6  | 7348.5  | 7610.1  | 8958.7  |
| 32.5° | 14642.7 | 14623.8 | 14298.5 | 13504.0 | 12205.0 | 10479.3 | 8843.1  | 7638.5  | 7848.3  | 8119.4  | 9588.1  |
| 35°   | 16250.5 | 16252.8 | 15868.6 | 14913.8 | 13381.4 | 11516.6 | 9675.4  | 8324.5  | 8456.5  | 8739.4  | 10337.8 |
| 37.5° | 17240.7 | 17360.9 | 17217.1 | 16243.4 | 14713.4 | 12676.5 | 10755.1 | 9234.5  | 9149.6  | 9434.9  | 11141.8 |
| 40°   | 17452.9 | 17599.1 | 18054.1 | 17559.0 | 16203.3 | 13954.3 | 11712.3 | 10109.1 | 10003.0 | 10352.0 | 12176.7 |
| 42.5° | 17155.8 | 17358.6 | 18320.4 | 18669.4 | 17785.2 | 15529.1 | 12999.5 | 11408.2 | 11273.7 | 11742.9 | 13463.9 |
| 45°   | 16979.0 | 17129.9 | 18242.6 | 19246.9 | 19157.4 | 17309.0 | 14637.9 | 13039.6 | 12990.0 | 13605.3 | 14949.2 |
| 47.5° | 16672.6 | 16809.2 | 17879.5 | 19381.3 | 19963.6 | 18940.4 | 16606.5 | 15034.0 | 15130.7 | 15937.0 | 16625.4 |
| 50°   | 16837.6 | 16894.1 | 17474.0 | 19039.5 | 20197.0 | 20135.8 | 18806.1 | 17344.4 | 17674.4 | 18681.1 | 18523.2 |
| 52.5° | 16813.9 | 16960.1 | 17426.9 | 18478.4 | 20227.7 | 20873.6 | 20972.6 | 19921.3 | 20616.7 | 21771.9 | 20628.5 |
| 55°   | 13593.6 | 13862.3 | 16873.0 | 18336.9 | 20336.2 | 21597.5 | 22901.1 | 22637.1 | 23933.8 | 25279.9 | 23004.8 |
| 57.5° | 12980.6 | 13150.3 | 14819.5 | 18634.0 | 20911.4 | 22979.0 | 25046.5 | 25626.5 | 27795.4 | 29358.5 | 25899.9 |
| 60°   | 12860.3 | 13070.2 | 14798.3 | 18997.0 | 22078.3 | 25230.4 | 28226.8 | 29245.2 | 32493.9 | 34205.5 | 29257.1 |
| 62.5° | 12485.5 | 12711.9 | 14659.2 | 18949.9 | 23735.7 | 28344.7 | 32298.2 | 33092.8 | 36949.7 | 38614.1 | 32064.9 |
| 65°   | 11297.4 | 11509.5 | 13525.3 | 18188.4 | 24853.2 | 31668.8 | 37117.1 | 36619.7 | 40467.1 | 41719.0 | 33465.2 |
| 66°   | 10484.0 | 10691.5 | 12631.7 | 17292.6 | 24593.9 | 32611.9 | 38824.0 | 37711.2 | 41254.6 | 42235.3 | 33191.8 |
| 67.5° | 8996.3  | 9159.0  | 10896.6 | 15286.3 | 23214.6 | 32875.9 | 40259.7 | 38531.6 | 41337.1 | 41683.6 | 31628.7 |
| 70°   | 5684.0  | 5731.2  | 7082.1  | 10552.4 | 17573.1 | 28512.1 | 38074.2 | 36494.7 | 37928.0 | 36989.8 | 26515.3 |
| 72.5° | 2466.0  | 2449.5  | 3399.6  | 5368.1  | 9948.8  | 19131.4 | 30798.9 | 30112.8 | 29752.1 | 27611.5 | 18560.9 |
| 75°   | 1372.1  | 1390.9  | 1765.8  | 2491.9  | 4043.2  | 9397.1  | 20147.5 | 19280.0 | 16278.8 | 13890.6 | 8416.4  |
| 77.5° | 1101.0  | 1126.9  | 1464.0  | 1768.2  | 1815.3  | 3277.0  | 9427.8  | 7671.4  | 4618.4  | 3706.0  | 2338.7  |
| 80°   | 869.9   | 917.1   | 1277.8  | 1376.8  | 1223.6  | 1350.9  | 3045.9  | 2435.3  | 1827.1  | 1676.2  | 1211.8  |
| 82.5° | 688.4   | 721.4   | 1096.3  | 1042.1  | 855.8   | 910.0   | 1459.3  | 1421.6  | 1188.2  | 1082.1  | 700.2   |
| 85°   | 495.1   | 556.4   | 900.6   | 785.0   | 561.1   | 613.0   | 968.9   | 928.8   | 681.3   | 556.4   | 308.8   |
| 87.5° | 202.7   | 264.0   | 636.6   | 521.0   | 313.5   | 285.3   | 483.3   | 455.0   | 322.9   | 235.8   | 153.2   |
| 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°    | 7110.3  | 7110.3  | 7110.3 | 7110.3 | 7110.3 | 7110.3 | 7110.3 | 7110.3 | 7110.3 | 7110.3 | 7110.3 |
| 2.5°  | 7103.3  | 7159.8  | 7233.0 | 7277.7 | 7301.3 | 7317.8 | 7343.8 | 7341.4 | 7348.5 | 7350.8 | 7360.2 |
| 5°    | 7150.4  | 7244.7  | 7350.8 | 7379.1 | 7379.1 | 7353.2 | 7327.2 | 7284.8 | 7268.3 | 7263.6 | 7268.3 |
| 7.5°  | 7273.0  | 7376.7  | 7468.7 | 7435.7 | 7364.9 | 7261.2 | 7126.8 | 7009.0 | 6945.3 | 6924.0 | 6919.3 |
| 10°   | 7428.6  | 7553.6  | 7591.3 | 7466.3 | 7258.9 | 7009.0 | 6742.6 | 6549.2 | 6438.5 | 6407.8 | 6398.4 |
| 12.5° | 7617.2  | 7735.0  | 7683.2 | 7419.2 | 7034.9 | 6631.8 | 6263.9 | 5955.1 | 5724.1 | 5651.0 | 5646.3 |
| 15°   | 7824.7  | 7916.6  | 7735.0 | 7273.0 | 6700.1 | 6106.0 | 5450.6 | 4917.8 | 4630.2 | 4538.2 | 4531.2 |
| 17.5° | 8018.0  | 8065.1  | 7704.5 | 7018.4 | 6207.4 | 5245.5 | 4375.6 | 3965.4 | 3866.3 | 3890.0 | 3894.7 |
| 20°   | 8183.0  | 8183.0  | 7600.7 | 6653.0 | 5431.8 | 4111.5 | 3562.2 | 3555.2 | 3625.8 | 3696.6 | 3710.8 |
| 22.5° | 8364.6  | 8256.1  | 7419.2 | 6136.7 | 4333.1 | 3364.2 | 3284.1 | 3350.1 | 3430.3 | 3508.0 | 3519.8 |
| 25°   | 8588.5  | 8315.1  | 7166.9 | 5354.0 | 3406.6 | 3055.3 | 3086.0 | 3140.3 | 3180.4 | 3229.9 | 3236.9 |
| 27.5° | 8838.4  | 8390.4  | 6834.5 | 4276.5 | 2956.3 | 2862.0 | 2885.6 | 2904.5 | 2899.8 | 2918.7 | 2923.4 |
| 30°   | 9137.8  | 8477.7  | 6379.5 | 3343.0 | 2770.2 | 2697.0 | 2654.6 | 2638.1 | 2638.1 | 2668.8 | 2680.5 |
| 32.5° | 9538.6  | 8607.4  | 5726.5 | 2864.4 | 2680.5 | 2579.2 | 2442.4 | 2381.1 | 2404.7 | 2508.4 | 2532.0 |
| 35°   | 9979.5  | 8746.4  | 4842.3 | 2701.7 | 2661.6 | 2524.9 | 2312.8 | 2199.5 | 2201.9 | 2298.6 | 2329.3 |
| 37.5° | 10460.4 | 8923.3  | 3873.4 | 2671.1 | 2704.1 | 2527.3 | 2244.4 | 2088.8 | 2025.1 | 2025.1 | 2036.9 |
| 40°   | 11075.7 | 9104.8  | 3135.5 | 2692.3 | 2793.7 | 2555.5 | 2209.1 | 2001.5 | 1822.4 | 1827.1 | 1836.5 |
| 42.5° | 11877.3 | 9260.4  | 2739.5 | 2737.1 | 2902.1 | 2593.3 | 2206.6 | 1886.0 | 1730.4 | 1836.5 | 1933.2 |
| 45°   | 12768.5 | 9338.2  | 2565.0 | 2777.2 | 2989.4 | 2616.9 | 2169.0 | 1867.2 | 1742.2 | 2058.2 | 2242.0 |
| 47.5° | 13794.0 | 9293.4  | 2468.4 | 2791.3 | 3010.5 | 2616.9 | 2126.5 | 1912.0 | 1824.7 | 2383.5 | 2598.0 |
| 50°   | 14918.5 | 9163.8  | 2374.1 | 2763.0 | 3003.5 | 2612.1 | 2166.6 | 1956.8 | 1855.4 | 2440.0 | 2588.6 |
| 52.5° | 16241.1 | 9055.3  | 2275.0 | 2701.7 | 2954.0 | 2586.2 | 2213.8 | 1937.9 | 1758.8 | 2218.5 | 2322.2 |
| 55°   | 17749.9 | 9086.0  | 2164.3 | 2614.6 | 2876.2 | 2536.7 | 2197.2 | 1862.5 | 1657.4 | 1954.4 | 2018.1 |
| 57.5° | 19678.4 | 9451.3  | 2032.2 | 2503.7 | 2770.2 | 2454.2 | 2138.3 | 1827.1 | 1626.7 | 1772.9 | 1810.6 |
| 60°   | 21830.8 | 10087.9 | 1867.2 | 2392.9 | 2638.1 | 2322.2 | 2093.5 | 1843.6 | 1640.8 | 1758.8 | 1777.6 |
| 62.5° | 23410.3 | 10458.0 | 1725.7 | 2230.2 | 2458.9 | 2176.0 | 2036.9 | 1864.8 | 1678.6 | 1808.3 | 1803.6 |
| 65°   | 23839.5 | 9849.8  | 1549.0 | 1992.1 | 2216.1 | 2022.8 | 1966.2 | 1888.4 | 1695.0 | 1848.3 | 1827.1 |
| 66°   | 23238.3 | 9194.4  | 1471.1 | 1881.3 | 2093.5 | 1947.3 | 1930.8 | 1886.0 | 1688.0 | 1853.1 | 1817.7 |
| 67.5° | 21778.9 | 7850.6  | 1336.7 | 1718.7 | 1897.8 | 1834.2 | 1874.3 | 1864.8 | 1669.1 | 1848.3 | 1798.8 |
| 70°   | 17761.7 | 5356.4  | 1143.5 | 1431.0 | 1579.5 | 1614.9 | 1765.8 | 1789.3 | 1607.9 | 1765.8 | 1657.4 |
| 72.5° | 12410.1 | 3262.8  | 1011.4 | 1110.4 | 1277.8 | 1376.8 | 1617.3 | 1685.6 | 1525.3 | 1541.8 | 1438.1 |
| 75°   | 5997.6  | 1732.8  | 917.1  | 860.5  | 992.6  | 1150.5 | 1438.1 | 1544.1 | 1395.7 | 1289.5 | 1251.9 |
| 77.5° | 1869.5  | 1058.5  | 778.0  | 693.2  | 778.0  | 928.8  | 1202.4 | 1353.3 | 1242.4 | 1079.7 | 1065.6 |
| 80°   | 1004.3  | 778.0   | 598.8  | 556.4  | 615.3  | 728.4  | 945.4  | 1129.2 | 1068.0 | 968.9  | 865.2  |
| 82.5° | 662.5   | 504.5   | 443.2  | 431.5  | 469.1  | 556.4  | 702.6  | 935.9  | 935.9  | 829.8  | 603.5  |
| 85°   | 341.9   | 308.8   | 304.1  | 304.1  | 327.7  | 370.1  | 478.5  | 721.4  | 768.5  | 438.5  | 363.0  |
| 87.5° | 169.7   | 176.8   | 165.0  | 172.1  | 183.9  | 181.6  | 228.7  | 363.0  | 433.8  | 266.4  | 221.6  |
| 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)