

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: P193126

Luminaire Tested: **GAN-AF-08-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49668.2 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

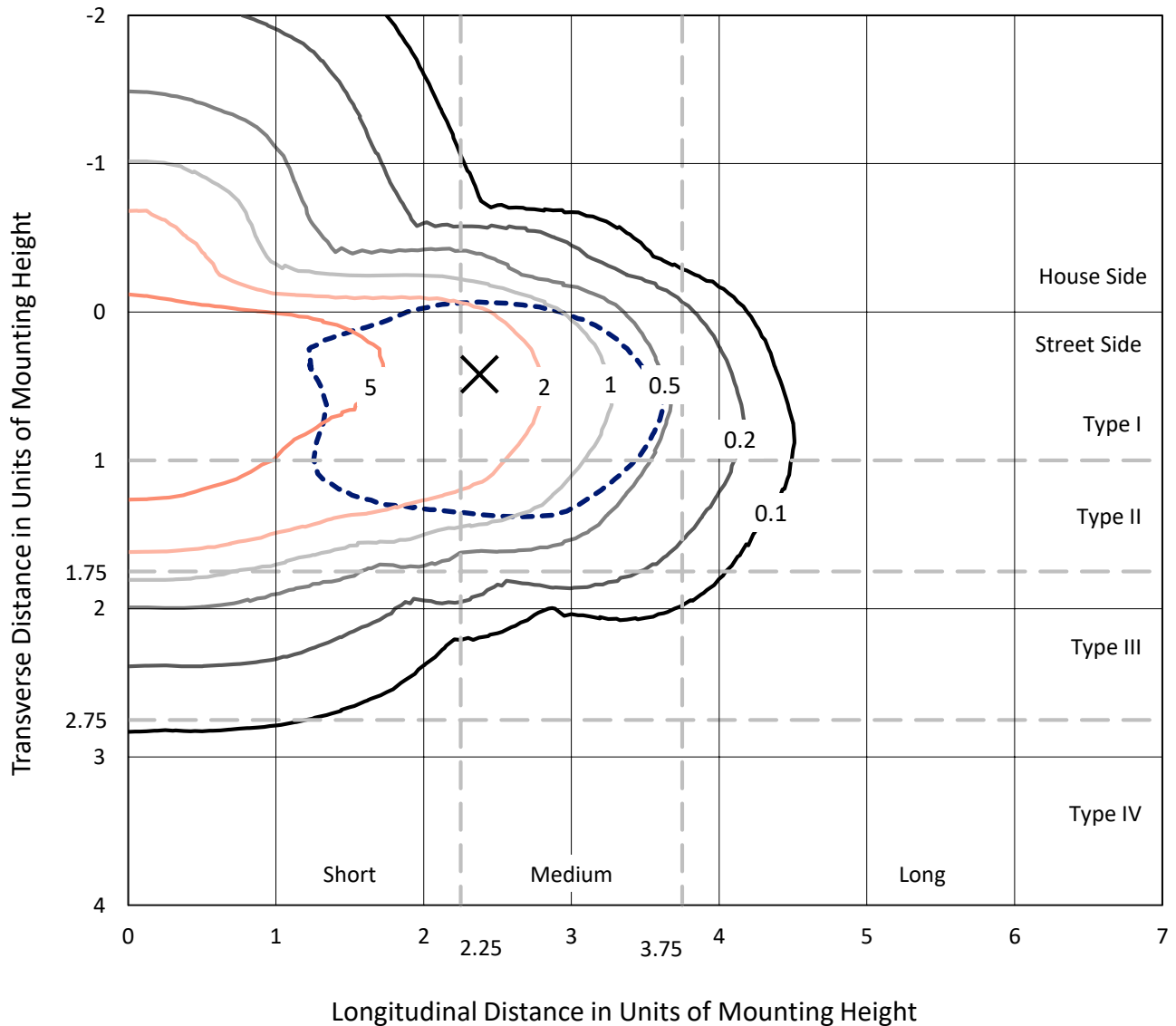
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

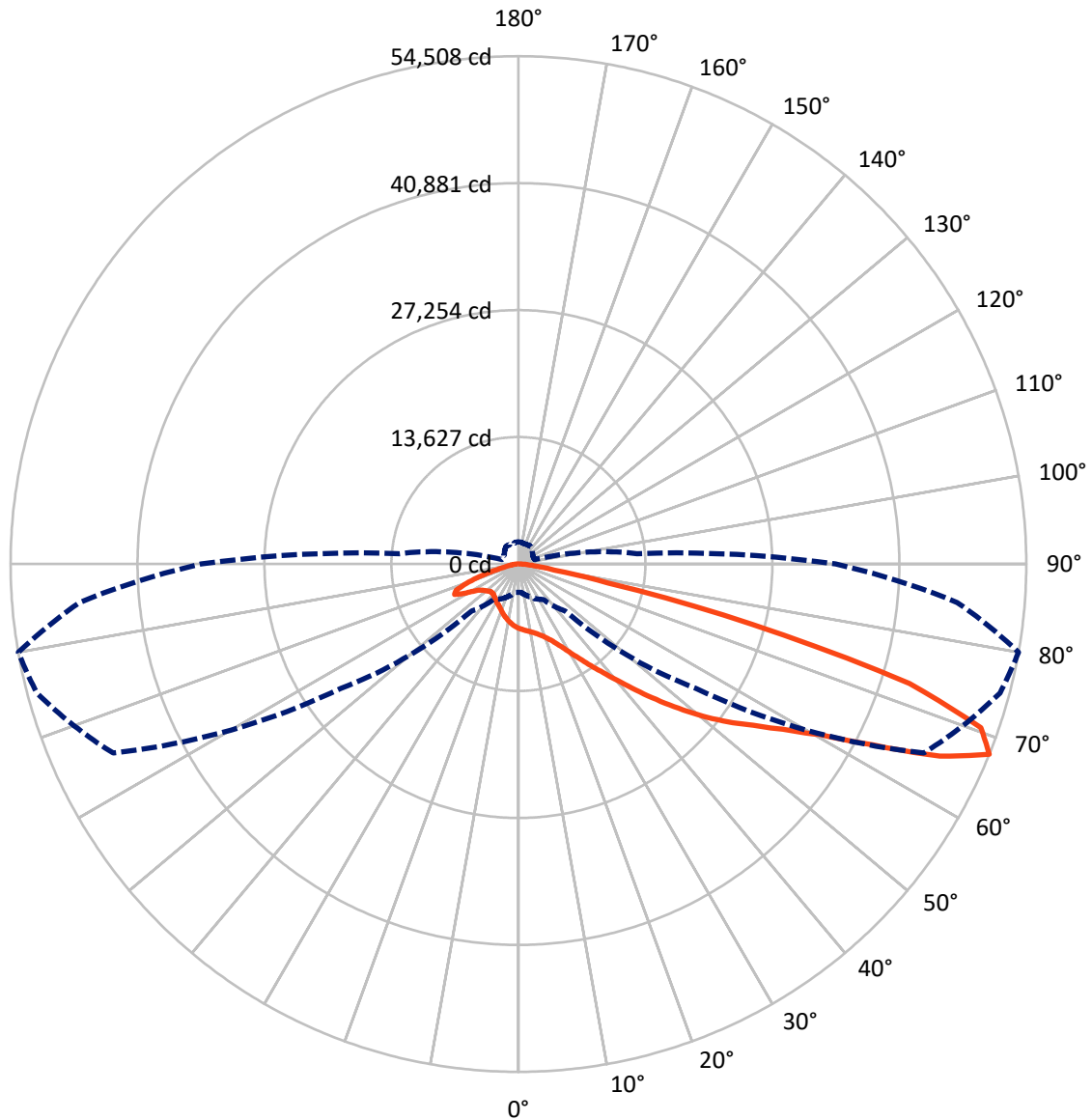
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9147.0   | 0.0    | 9147.0  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 40521.2  | 0.0    | 40521.2 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 49668.2  | 0.0    | 49668.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 636.5   | 1.3       |
| 10°-20°   | 1833.6  | 3.7       |
| 20°-30°   | 3035.1  | 6.1       |
| 30°-40°   | 4964.6  | 10.0      |
| 40°-50°   | 8015.9  | 16.1      |
| 50°-60°   | 11572.6 | 23.3      |
| 60°-70°   | 12771.0 | 25.7      |
| 70°-80°   | 5886.6  | 11.9      |
| 80°-90°   | 952.1   | 1.9       |
| 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°    | 49668.2 | 100.0     |
| 0°-180°   | 49668.2 | 100.0     |



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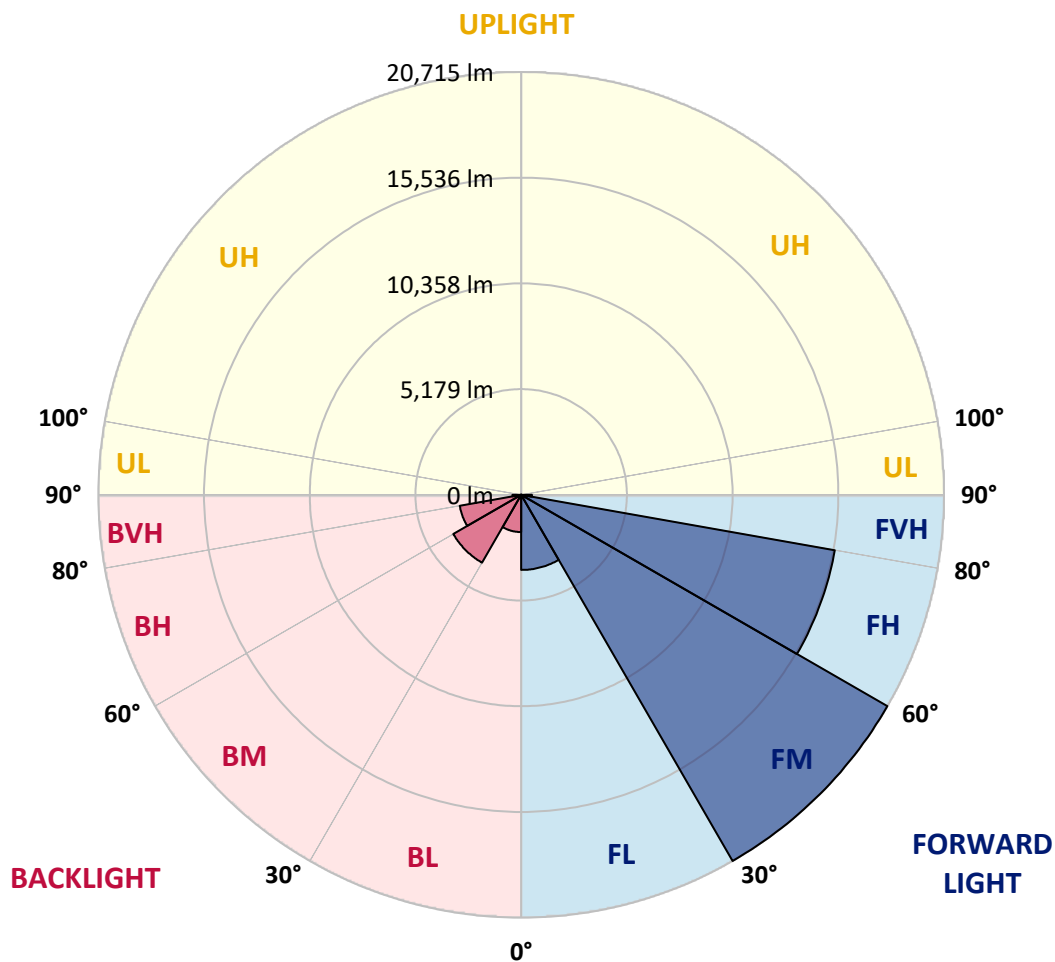
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3680.3  | 7.4       |                         |      |         |
| FM (30°-60°)   | 20715.3 | 41.7      |                         |      |         |
| FH (60°-80°)   | 15602.1 | 31.4      |                         |      | G5      |
| FVH (80°-90°)  | 523.5   | 1.1       |                         |      | G4/750  |
| BL (0°-30°)    | 1824.9  | 3.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 3837.7  | 7.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 3055.6  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 428.7   | 0.9       |                         |      | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  | 6900.4  |
| 2.5°  | 7548.2  | 7504.4  | 7511.7  | 7499.4  | 7462.7  | 7399.1  | 7330.7  | 7205.9  | 7076.4  | 7007.9  | 6954.2  |
| 5°    | 8179.1  | 8167.0  | 8149.8  | 8110.8  | 8017.8  | 7885.8  | 7721.9  | 7501.8  | 7264.6  | 7140.0  | 7020.1  |
| 7.5°  | 8651.1  | 8643.8  | 8621.7  | 8597.3  | 8506.8  | 8348.0  | 8100.9  | 7788.0  | 7443.2  | 7272.1  | 7086.2  |
| 10°   | 8690.3  | 8702.5  | 8719.6  | 8785.6  | 8797.8  | 8712.3  | 8460.4  | 8081.4  | 7629.0  | 7409.0  | 7171.8  |
| 12.5° | 8357.7  | 8384.5  | 8450.6  | 8619.4  | 8797.8  | 8903.0  | 8773.4  | 8389.5  | 7846.7  | 7580.1  | 7279.4  |
| 15°   | 7917.6  | 7932.2  | 8013.0  | 8245.2  | 8565.5  | 8890.8  | 9013.1  | 8729.4  | 8127.8  | 7800.2  | 7440.8  |
| 17.5° | 7729.3  | 7736.6  | 7792.8  | 7946.9  | 8245.2  | 8709.8  | 9147.5  | 9098.6  | 8472.6  | 8074.0  | 7638.8  |
| 20°   | 7634.0  | 7651.0  | 7731.7  | 7883.3  | 8071.6  | 8477.5  | 9167.1  | 9497.2  | 8883.5  | 8416.4  | 7888.2  |
| 22.5° | 7905.4  | 7898.1  | 7927.3  | 8003.1  | 8162.1  | 8406.6  | 9152.4  | 9907.9  | 9406.6  | 8856.5  | 8213.4  |
| 25°   | 8538.6  | 8565.5  | 8514.1  | 8428.6  | 8479.9  | 8651.1  | 9230.7  | 10353.0 | 10062.0 | 9421.3  | 8638.9  |
| 27.5° | 9440.9  | 9414.0  | 9338.2  | 9137.7  | 9032.6  | 9105.8  | 9489.8  | 10832.2 | 10876.2 | 10164.7 | 9201.3  |
| 30°   | 10340.8 | 10318.8 | 10245.4 | 10000.8 | 9785.7  | 9724.5  | 9993.5  | 11382.4 | 11847.0 | 11057.1 | 9890.8  |
| 32.5° | 11274.8 | 11250.3 | 11181.9 | 10937.4 | 10678.2 | 10536.4 | 10709.9 | 12018.2 | 12991.4 | 12123.3 | 10702.6 |
| 35°   | 12426.5 | 12380.0 | 12235.7 | 11895.9 | 11641.6 | 11531.6 | 11612.3 | 12817.7 | 14311.8 | 13385.1 | 11688.0 |
| 37.5° | 13509.7 | 13580.6 | 13434.0 | 12964.4 | 12634.3 | 12595.2 | 12685.6 | 13793.3 | 15734.9 | 14795.9 | 12820.2 |
| 40°   | 14597.8 | 14610.0 | 14478.1 | 14094.1 | 13754.2 | 13690.6 | 13918.1 | 14976.8 | 17414.8 | 16483.1 | 14196.8 |
| 42.5° | 15722.6 | 15747.1 | 15524.5 | 15170.0 | 14920.6 | 14932.8 | 15192.1 | 16363.3 | 19341.5 | 18471.1 | 15781.3 |
| 45°   | 17055.3 | 17092.0 | 16847.4 | 16382.9 | 16155.4 | 16612.7 | 16505.1 | 17918.4 | 21454.1 | 20730.5 | 17600.6 |
| 47.5° | 18449.1 | 18505.2 | 18319.4 | 17884.2 | 17600.6 | 18229.0 | 17818.2 | 19642.3 | 23728.2 | 23153.5 | 19598.3 |
| 50°   | 19209.5 | 19290.2 | 19471.1 | 19439.3 | 19378.2 | 19273.2 | 19282.8 | 21490.9 | 26073.2 | 25677.0 | 21652.2 |
| 52.5° | 18801.2 | 18798.7 | 19458.8 | 20260.9 | 21116.7 | 21180.4 | 21067.8 | 23439.7 | 28264.1 | 28144.2 | 23586.4 |
| 55°   | 16933.0 | 17060.2 | 18060.2 | 19612.9 | 21950.5 | 23410.3 | 23742.9 | 25672.1 | 30415.8 | 30555.2 | 25549.8 |
| 57.5° | 13822.7 | 13927.9 | 15277.6 | 17441.6 | 20825.8 | 24735.6 | 27547.6 | 28916.9 | 32821.9 | 33472.3 | 28163.8 |
| 60°   | 9374.9  | 9502.1  | 10932.5 | 13531.8 | 17798.7 | 23997.1 | 31168.9 | 34707.2 | 35702.3 | 37181.7 | 31831.6 |
| 62.5° | 5509.1  | 5624.0  | 6790.4  | 8536.2  | 12531.6 | 20566.5 | 32758.3 | 42945.0 | 40277.4 | 42778.8 | 37426.2 |
| 65°   | 3792.5  | 3870.7  | 4438.0  | 5313.4  | 7201.1  | 13852.1 | 30787.5 | 48632.6 | 47317.0 | 49713.4 | 43913.4 |
| 67.5° | 3051.6  | 3041.8  | 3491.7  | 4088.4  | 4636.1  | 7142.4  | 23280.8 | 47989.5 | 53508.3 | 54508.4 | 47280.5 |
| 70°   | 2513.6  | 2503.9  | 2809.5  | 3303.5  | 3704.4  | 4022.4  | 12680.8 | 40497.4 | 52246.5 | 52652.5 | 44179.8 |
| 72.5° | 2102.9  | 2112.6  | 2308.3  | 2675.0  | 3039.4  | 3029.6  | 5572.7  | 28489.1 | 41101.3 | 43908.4 | 35218.2 |
| 75°   | 1775.3  | 1780.1  | 1909.8  | 2168.9  | 2467.2  | 2440.3  | 3022.2  | 15434.1 | 23892.0 | 25845.8 | 19522.5 |
| 77.5° | 1511.2  | 1516.0  | 1599.1  | 1743.4  | 1956.2  | 1946.4  | 2205.6  | 6668.1  | 9966.6  | 9844.4  | 6677.8  |
| 80°   | 1347.2  | 1347.2  | 1386.4  | 1413.4  | 1530.7  | 1486.7  | 1635.8  | 3203.3  | 4213.0  | 3890.2  | 2665.3  |
| 82.5° | 1056.3  | 1061.2  | 1300.8  | 1291.1  | 1205.4  | 1149.3  | 1149.3  | 1887.7  | 2232.5  | 2063.8  | 1560.0  |
| 85°   | 594.2   | 591.7   | 838.7   | 1012.3  | 1061.2  | 809.4   | 802.1   | 1056.3  | 1215.3  | 1071.0  | 755.5   |
| 87.5° | 254.2   | 259.2   | 388.8   | 449.9   | 601.5   | 503.6   | 496.4   | 545.3   | 618.6   | 535.5   | 349.6   |
| 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°    | 6900.4  | 6900.4  | 6900.4 | 6900.4 | 6900.4 | 6900.4 | 6900.4 | 6900.4 | 6900.4 | 6900.4 | 6900.4 |
| 2.5°  | 6902.8  | 6839.2  | 6699.9 | 6526.3 | 6369.7 | 6267.0 | 6174.1 | 6039.7 | 6047.0 | 5954.1 | 5885.6 |
| 5°    | 6897.9  | 6765.9  | 6443.1 | 6059.2 | 5690.0 | 5423.4 | 5222.9 | 5042.0 | 4997.9 | 4912.4 | 4861.1 |
| 7.5°  | 6902.8  | 6687.6  | 6144.7 | 5531.0 | 5073.8 | 4736.4 | 4565.2 | 4469.8 | 4447.8 | 4418.5 | 4420.9 |
| 10°   | 6919.9  | 6616.7  | 5817.2 | 5037.1 | 4557.9 | 4335.3 | 4293.8 | 4323.1 | 4357.4 | 4367.1 | 4369.6 |
| 12.5° | 6959.0  | 6553.2  | 5457.7 | 4597.0 | 4235.1 | 4166.6 | 4237.5 | 4337.8 | 4403.8 | 4435.6 | 4433.2 |
| 15°   | 7047.1  | 6504.2  | 5112.9 | 4252.2 | 4056.6 | 4093.3 | 4225.3 | 4367.1 | 4462.4 | 4506.5 | 4508.9 |
| 17.5° | 7142.4  | 6433.3  | 4758.3 | 3988.1 | 3924.6 | 4017.5 | 4181.3 | 4347.5 | 4464.9 | 4513.8 | 4523.7 |
| 20°   | 7267.2  | 6345.3  | 4386.6 | 3790.1 | 3799.8 | 3905.0 | 4059.0 | 4225.3 | 4354.8 | 4396.5 | 4416.0 |
| 22.5° | 7430.9  | 6249.9  | 4061.5 | 3628.7 | 3658.0 | 3738.8 | 3858.5 | 4002.8 | 4115.2 | 4134.8 | 4152.0 |
| 25°   | 7651.0  | 6147.3  | 3802.3 | 3482.0 | 3494.2 | 3540.6 | 3621.3 | 3706.9 | 3785.2 | 3763.1 | 3780.3 |
| 27.5° | 7946.9  | 6059.2  | 3609.2 | 3347.4 | 3325.6 | 3335.2 | 3376.7 | 3403.8 | 3445.3 | 3384.2 | 3391.5 |
| 30°   | 8294.1  | 5963.8  | 3459.9 | 3230.1 | 3168.9 | 3151.9 | 3161.6 | 3176.2 | 3208.1 | 3125.0 | 3112.7 |
| 32.5° | 8697.6  | 5848.8  | 3320.6 | 3127.4 | 3041.8 | 3007.6 | 3012.5 | 3051.6 | 3173.9 | 3122.5 | 3095.7 |
| 35°   | 9167.1  | 5719.2  | 3173.9 | 3014.9 | 2956.2 | 2907.4 | 2902.5 | 3024.8 | 3389.0 | 3357.2 | 3332.9 |
| 37.5° | 9717.2  | 5589.7  | 3027.1 | 2887.8 | 2892.6 | 2838.9 | 2821.7 | 2961.2 | 3430.6 | 3305.8 | 3288.8 |
| 40°   | 10416.6 | 5521.3  | 2902.5 | 2753.4 | 2814.4 | 2807.1 | 2772.9 | 2843.8 | 3156.7 | 2929.3 | 2900.0 |
| 42.5° | 11282.1 | 5531.0  | 2809.5 | 2609.0 | 2721.5 | 2799.8 | 2746.0 | 2748.4 | 2860.9 | 2689.8 | 2662.8 |
| 45°   | 12350.6 | 5646.0  | 2743.5 | 2494.1 | 2616.3 | 2792.4 | 2736.2 | 2697.1 | 2706.8 | 2616.3 | 2601.7 |
| 47.5° | 13597.8 | 5883.2  | 2697.1 | 2398.8 | 2516.1 | 2765.6 | 2733.7 | 2682.5 | 2660.4 | 2611.6 | 2599.3 |
| 50°   | 14984.2 | 6227.9  | 2662.8 | 2308.3 | 2425.7 | 2721.5 | 2736.2 | 2667.7 | 2643.3 | 2623.8 | 2616.3 |
| 52.5° | 16346.2 | 6621.5  | 2611.6 | 2230.0 | 2354.7 | 2667.7 | 2743.5 | 2653.1 | 2626.1 | 2611.6 | 2604.0 |
| 55°   | 17864.7 | 7113.1  | 2533.1 | 2164.0 | 2296.1 | 2599.3 | 2743.5 | 2631.1 | 2601.7 | 2604.0 | 2601.7 |
| 57.5° | 19916.1 | 7907.7  | 2440.3 | 2107.7 | 2225.2 | 2516.1 | 2697.1 | 2606.6 | 2569.9 | 2572.4 | 2574.8 |
| 60°   | 23121.8 | 9308.9  | 2327.9 | 2051.6 | 2137.1 | 2418.4 | 2633.4 | 2552.9 | 2516.1 | 2525.8 | 2528.4 |
| 62.5° | 27836.2 | 11365.2 | 2181.2 | 1968.5 | 2044.2 | 2313.1 | 2545.4 | 2484.3 | 2447.6 | 2472.1 | 2472.1 |
| 65°   | 32736.4 | 13179.6 | 2000.2 | 1863.2 | 1946.4 | 2198.2 | 2435.4 | 2398.8 | 2362.0 | 2418.4 | 2415.8 |
| 67.5° | 34054.3 | 12773.7 | 1819.2 | 1748.3 | 1848.5 | 2071.1 | 2303.4 | 2283.8 | 2264.3 | 2362.0 | 2357.2 |
| 70°   | 30252.0 | 10255.2 | 1653.0 | 1630.9 | 1740.9 | 1934.1 | 2161.5 | 2161.5 | 2149.3 | 2222.7 | 2205.6 |
| 72.5° | 23048.5 | 7272.1  | 1494.0 | 1506.2 | 1618.6 | 1785.0 | 2007.5 | 2024.6 | 2005.0 | 2041.7 | 2027.1 |
| 75°   | 12338.4 | 4161.6  | 1335.0 | 1369.3 | 1467.2 | 1633.4 | 1836.3 | 1853.5 | 1841.2 | 1838.9 | 1846.2 |
| 77.5° | 4100.6  | 2034.4  | 1168.8 | 1222.6 | 1308.2 | 1476.8 | 1657.8 | 1684.8 | 1655.4 | 1650.5 | 1648.0 |
| 80°   | 1826.6  | 1278.9  | 985.4  | 1056.3 | 1132.2 | 1298.4 | 1469.5 | 1491.6 | 1459.8 | 1503.9 | 1447.5 |
| 82.5° | 1173.7  | 841.2   | 789.8  | 868.1  | 941.4  | 1119.9 | 1281.3 | 1286.2 | 1256.8 | 1459.8 | 1244.6 |
| 85°   | 569.7   | 520.8   | 594.2  | 665.1  | 728.6  | 880.3  | 1061.2 | 1063.6 | 990.3  | 902.3  | 870.5  |
| 87.5° | 283.6   | 303.2   | 396.2  | 459.7  | 491.4  | 603.9  | 772.7  | 758.0  | 726.2  | 660.3  | 608.9  |
| 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)