

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: P193127

Luminaire Tested: **GAN-AF-09-LED-U-T2-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193127  
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-09-LED-U-T2-7030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 55405.4 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

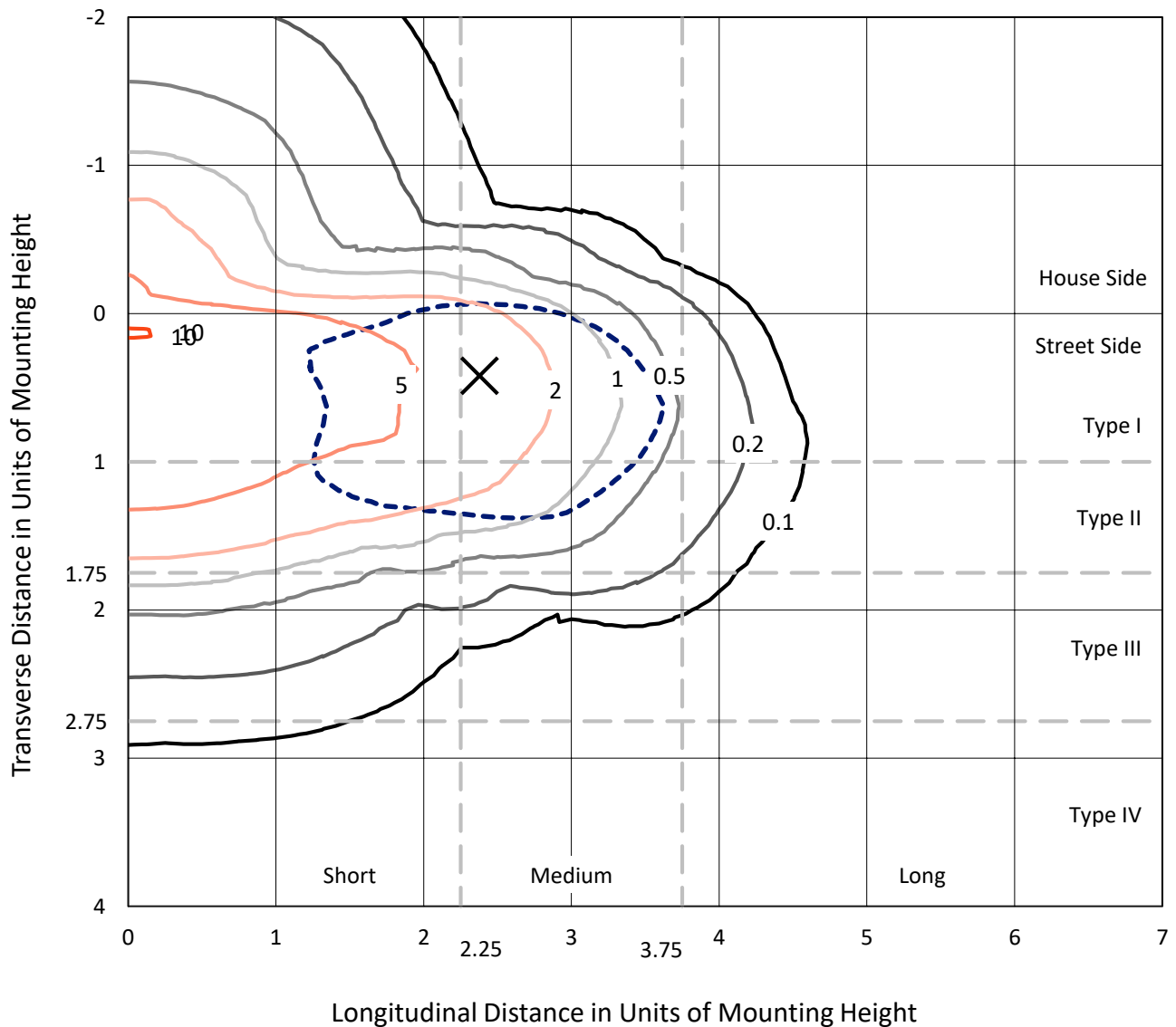
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

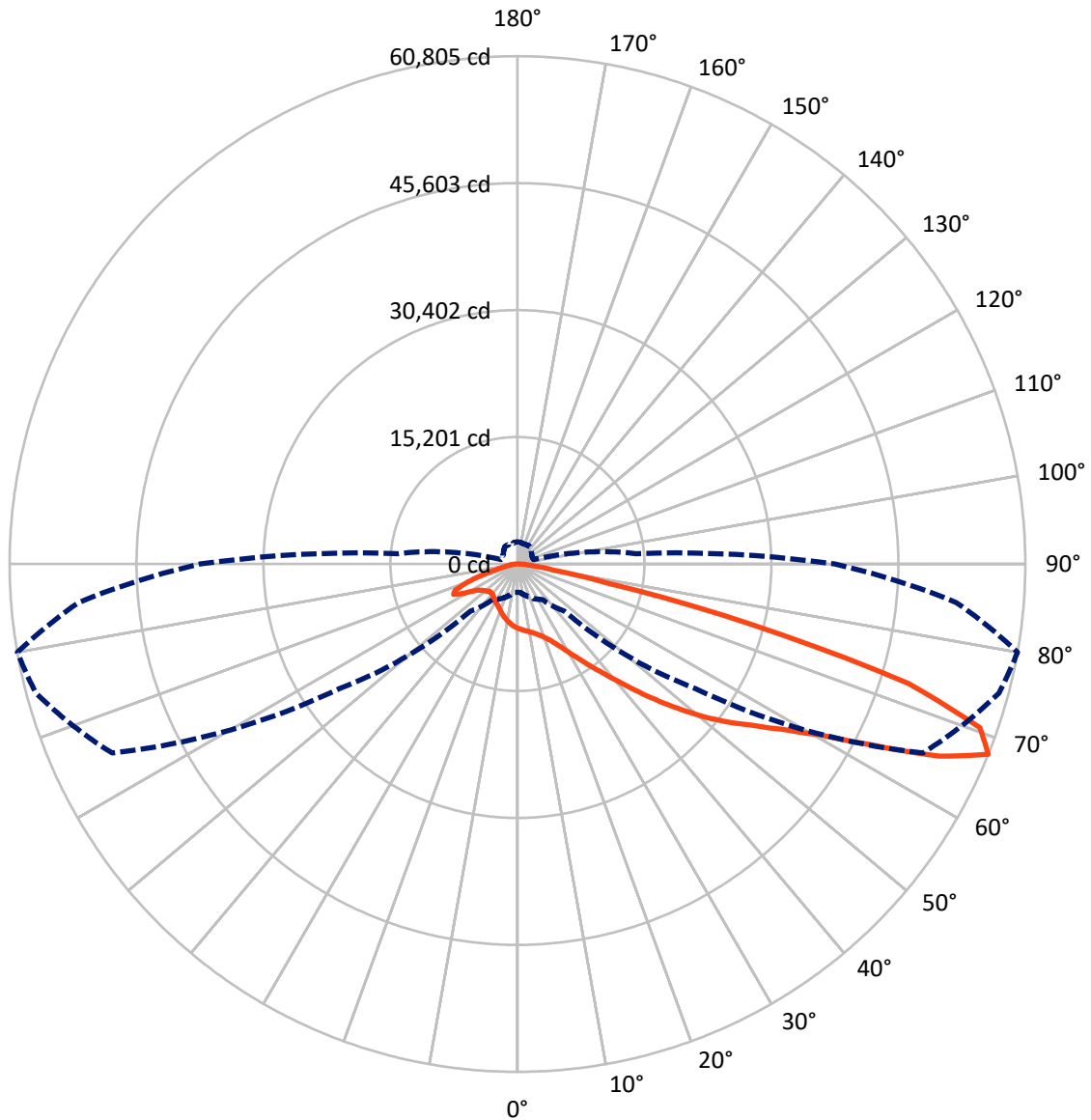
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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    | 10203.6  | 0.0    | 10203.6 |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 45201.8  | 0.0    | 45201.8 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 55405.4  | 0.0    | 55405.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 710.1   | 1.3       |
| 10°-20°   | 2045.5  | 3.7       |
| 20°-30°   | 3385.7  | 6.1       |
| 30°-40°   | 5538.1  | 10.0      |
| 40°-50°   | 8941.8  | 16.1      |
| 50°-60°   | 12909.3 | 23.3      |
| 60°-70°   | 14246.2 | 25.7      |
| 70°-80°   | 6566.6  | 11.9      |
| 80°-90°   | 1062.1  | 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°    | 55405.4 | 100.0     |
| 0°-180°   | 55405.4 | 100.0     |

**Coefficient of Utilization**



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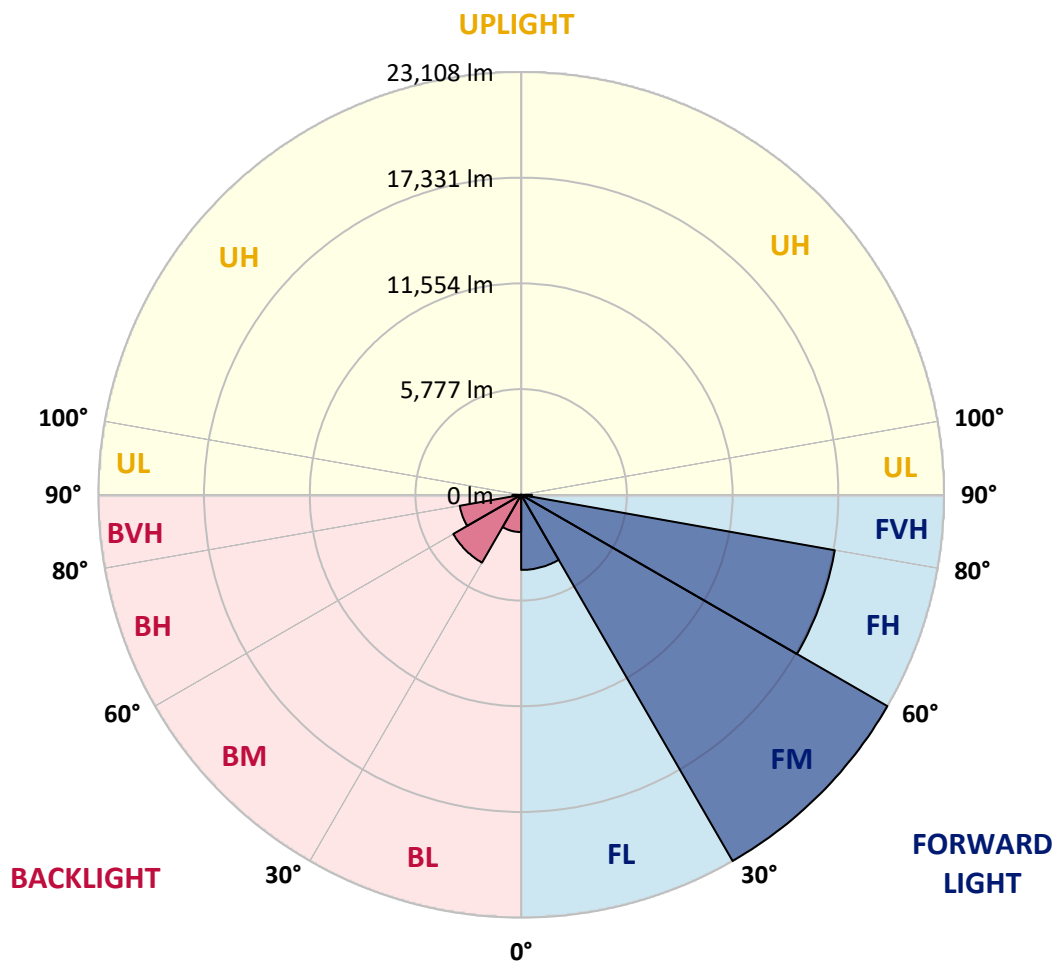
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4105.4  | 7.4       |                         |      |         |
| FM (30°-60°)   | 23108.2 | 41.7      |                         |      |         |
| FH (60°-80°)   | 17404.3 | 31.4      |                         |      | G5      |
| FVH (80°-90°)  | 583.9   | 1.1       |                         |      | G4/750  |
| BL (0°-30°)    | 2035.8  | 3.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 4281.1  | 7.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 3408.6  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 478.2   | 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°    | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  | 7697.5  |
| 2.5°  | 8420.3  | 8371.1  | 8379.3  | 8365.7  | 8324.8  | 8253.9  | 8177.5  | 8038.4  | 7893.8  | 7817.4  | 7757.4  |
| 5°    | 9124.0  | 9110.4  | 9091.3  | 9047.6  | 8944.0  | 8796.7  | 8613.9  | 8368.3  | 8103.9  | 7964.7  | 7831.0  |
| 7.5°  | 9650.5  | 9642.2  | 9617.6  | 9590.4  | 9489.5  | 9312.1  | 9036.8  | 8687.5  | 8302.9  | 8112.1  | 7904.7  |
| 10°   | 9694.0  | 9707.6  | 9726.8  | 9800.4  | 9814.1  | 9718.6  | 9437.7  | 9014.9  | 8510.2  | 8264.8  | 8000.2  |
| 12.5° | 9323.1  | 9353.1  | 9426.8  | 9615.0  | 9814.1  | 9931.3  | 9786.8  | 9358.6  | 8753.0  | 8455.7  | 8120.1  |
| 15°   | 8832.1  | 8848.5  | 8938.5  | 9197.7  | 9554.9  | 9917.7  | 10054.1 | 9737.7  | 9066.7  | 8701.2  | 8300.2  |
| 17.5° | 8622.0  | 8630.3  | 8693.0  | 8864.9  | 9197.7  | 9715.9  | 10204.2 | 10149.5 | 9451.3  | 9006.7  | 8521.1  |
| 20°   | 8515.6  | 8534.8  | 8624.8  | 8793.9  | 9003.9  | 9456.7  | 10225.9 | 10594.3 | 9909.5  | 9388.5  | 8799.4  |
| 22.5° | 8818.6  | 8810.3  | 8843.0  | 8927.6  | 9104.9  | 9377.6  | 10209.6 | 11052.4 | 10493.3 | 9879.6  | 9162.2  |
| 25°   | 9524.9  | 9554.9  | 9497.7  | 9402.2  | 9459.4  | 9650.5  | 10296.8 | 11548.8 | 11224.3 | 10509.6 | 9636.7  |
| 27.5° | 10531.4 | 10501.5 | 10416.9 | 10193.3 | 10075.9 | 10157.8 | 10586.0 | 12083.4 | 12132.5 | 11338.8 | 10264.2 |
| 30°   | 11535.3 | 11510.7 | 11428.8 | 11156.0 | 10916.1 | 10847.8 | 11147.9 | 12697.2 | 13215.5 | 12334.4 | 11033.3 |
| 32.5° | 12577.2 | 12549.8 | 12473.5 | 12200.8 | 11911.7 | 11753.4 | 11947.1 | 13406.3 | 14491.9 | 13523.7 | 11938.9 |
| 35°   | 13861.9 | 13810.1 | 13649.1 | 13270.0 | 12986.3 | 12863.5 | 12953.6 | 14298.3 | 15965.0 | 14931.2 | 13038.1 |
| 37.5° | 15070.2 | 15149.4 | 14985.7 | 14462.0 | 14093.8 | 14050.0 | 14151.0 | 15386.7 | 17552.4 | 16505.0 | 14301.1 |
| 40°   | 16284.0 | 16297.6 | 16150.3 | 15722.2 | 15343.1 | 15272.0 | 15525.7 | 16706.9 | 19426.3 | 18387.0 | 15836.7 |
| 42.5° | 17538.8 | 17566.0 | 17317.8 | 16922.3 | 16644.1 | 16657.7 | 16946.8 | 18253.4 | 21575.7 | 20604.6 | 17604.2 |
| 45°   | 19025.4 | 19066.3 | 18793.4 | 18275.2 | 18021.5 | 18531.7 | 18411.6 | 19988.2 | 23932.3 | 23124.9 | 19633.6 |
| 47.5° | 20580.1 | 20642.8 | 20435.6 | 19949.9 | 19633.6 | 20334.6 | 19876.3 | 21911.2 | 26469.0 | 25828.2 | 21862.1 |
| 50°   | 21428.4 | 21518.4 | 21720.2 | 21684.8 | 21616.6 | 21499.3 | 21510.2 | 23973.2 | 29085.0 | 28643.0 | 24153.3 |
| 52.5° | 20972.9 | 20970.1 | 21706.6 | 22601.3 | 23556.0 | 23626.9 | 23501.4 | 26147.3 | 31528.8 | 31395.2 | 26310.8 |
| 55°   | 18889.0 | 19030.8 | 20146.5 | 21878.4 | 24486.1 | 26114.5 | 26485.4 | 28637.5 | 33929.2 | 34084.6 | 28501.2 |
| 57.5° | 15419.4 | 15536.6 | 17042.4 | 19456.4 | 23231.4 | 27592.9 | 30729.7 | 32257.1 | 36613.3 | 37338.7 | 31417.1 |
| 60°   | 10457.8 | 10599.7 | 12195.3 | 15094.8 | 19854.5 | 26769.1 | 34769.3 | 38716.2 | 39826.3 | 41476.6 | 35508.5 |
| 62.5° | 6145.4  | 6273.5  | 7574.7  | 9522.2  | 13979.1 | 22942.3 | 36542.3 | 47905.6 | 44929.8 | 47720.2 | 41749.4 |
| 65°   | 4230.6  | 4317.8  | 4950.6  | 5927.2  | 8033.0  | 15452.1 | 34343.8 | 54250.2 | 52782.7 | 55455.7 | 48985.9 |
| 67.5° | 3404.1  | 3393.1  | 3895.1  | 4560.6  | 5171.6  | 7967.4  | 25970.0 | 53532.7 | 59689.1 | 60804.6 | 52741.7 |
| 70°   | 2804.0  | 2793.1  | 3134.1  | 3685.1  | 4132.4  | 4486.9  | 14145.6 | 45175.3 | 58281.6 | 58734.4 | 49283.1 |
| 72.5° | 2345.8  | 2356.7  | 2574.9  | 2984.1  | 3390.5  | 3379.6  | 6216.3  | 31779.8 | 45849.0 | 48980.4 | 39286.3 |
| 75°   | 1980.4  | 1985.7  | 2130.3  | 2419.4  | 2752.2  | 2722.2  | 3371.4  | 17216.8 | 26651.8 | 28831.3 | 21777.5 |
| 77.5° | 1685.7  | 1691.2  | 1783.8  | 1944.9  | 2182.1  | 2171.2  | 2460.3  | 7438.3  | 11117.9 | 10981.5 | 7449.2  |
| 80°   | 1503.0  | 1503.0  | 1546.6  | 1576.6  | 1707.5  | 1658.4  | 1824.8  | 3573.3  | 4699.8  | 4339.7  | 2973.2  |
| 82.5° | 1178.4  | 1183.9  | 1451.1  | 1440.1  | 1344.8  | 1282.0  | 1282.0  | 2105.8  | 2490.3  | 2302.1  | 1740.3  |
| 85°   | 662.7   | 660.2   | 935.6   | 1129.2  | 1183.9  | 902.8   | 894.7   | 1178.4  | 1355.7  | 1194.8  | 842.8   |
| 87.5° | 283.6   | 289.1   | 433.6   | 501.9   | 671.0   | 561.9   | 553.7   | 608.2   | 690.1   | 597.3   | 390.0   |
| 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°    | 7697.5  | 7697.5  | 7697.5 | 7697.5 | 7697.5 | 7697.5 | 7697.5 | 7697.5 | 7697.5 | 7697.5 | 7697.5 |
| 2.5°  | 7700.1  | 7629.2  | 7473.8 | 7280.1 | 7105.5 | 6991.0 | 6887.2 | 6737.3 | 6745.4 | 6641.9 | 6565.5 |
| 5°    | 7694.7  | 7547.4  | 7187.4 | 6759.1 | 6347.2 | 6049.9 | 5826.2 | 5624.4 | 5575.3 | 5479.8 | 5422.5 |
| 7.5°  | 7700.1  | 7460.1  | 6854.6 | 6170.0 | 5659.8 | 5283.4 | 5092.5 | 4986.1 | 4961.6 | 4928.9 | 4931.6 |
| 10°   | 7719.2  | 7381.0  | 6489.0 | 5618.9 | 5084.4 | 4836.2 | 4789.7 | 4822.4 | 4860.6 | 4871.6 | 4874.3 |
| 12.5° | 7762.9  | 7310.1  | 6088.2 | 5128.0 | 4724.3 | 4647.9 | 4727.0 | 4838.9 | 4912.6 | 4948.0 | 4945.2 |
| 15°   | 7861.1  | 7255.6  | 5703.6 | 4743.4 | 4525.2 | 4566.1 | 4713.3 | 4871.6 | 4978.0 | 5027.0 | 5029.8 |
| 17.5° | 7967.4  | 7176.4  | 5308.1 | 4448.8 | 4377.9 | 4481.5 | 4664.3 | 4849.8 | 4980.7 | 5035.2 | 5046.1 |
| 20°   | 8106.6  | 7078.3  | 4893.4 | 4227.9 | 4238.7 | 4356.0 | 4527.9 | 4713.3 | 4857.8 | 4904.3 | 4926.2 |
| 22.5° | 8289.3  | 6971.9  | 4530.7 | 4047.8 | 4080.5 | 4170.5 | 4304.3 | 4465.2 | 4590.6 | 4612.5 | 4631.5 |
| 25°   | 8534.8  | 6857.3  | 4241.5 | 3884.1 | 3897.9 | 3949.6 | 4039.7 | 4135.1 | 4222.5 | 4197.8 | 4217.0 |
| 27.5° | 8864.9  | 6759.1  | 4025.9 | 3734.2 | 3709.6 | 3720.5 | 3766.9 | 3796.9 | 3843.3 | 3775.0 | 3783.2 |
| 30°   | 9252.2  | 6652.7  | 3859.6 | 3603.3 | 3535.1 | 3516.0 | 3526.9 | 3543.2 | 3578.7 | 3485.9 | 3472.3 |
| 32.5° | 9702.2  | 6524.5  | 3704.1 | 3488.6 | 3393.1 | 3355.1 | 3360.5 | 3404.1 | 3540.4 | 3483.1 | 3453.2 |
| 35°   | 10225.9 | 6379.9  | 3540.4 | 3363.2 | 3297.8 | 3243.2 | 3237.7 | 3374.2 | 3780.5 | 3745.1 | 3717.8 |
| 37.5° | 10839.6 | 6235.4  | 3376.8 | 3221.4 | 3226.8 | 3166.8 | 3147.6 | 3303.1 | 3827.0 | 3687.8 | 3668.7 |
| 40°   | 11619.7 | 6159.1  | 3237.7 | 3071.3 | 3139.6 | 3131.4 | 3093.1 | 3172.3 | 3521.4 | 3267.7 | 3234.9 |
| 42.5° | 12585.3 | 6170.0  | 3134.1 | 2910.4 | 3035.9 | 3123.1 | 3063.2 | 3066.0 | 3191.4 | 3000.4 | 2970.4 |
| 45°   | 13777.4 | 6298.1  | 3060.5 | 2782.2 | 2918.6 | 3115.0 | 3052.2 | 3008.6 | 3019.5 | 2918.6 | 2902.3 |
| 47.5° | 15168.5 | 6562.7  | 3008.6 | 2675.9 | 2806.8 | 3084.9 | 3049.5 | 2992.2 | 2967.7 | 2913.2 | 2899.5 |
| 50°   | 16715.0 | 6947.4  | 2970.4 | 2574.9 | 2705.8 | 3035.9 | 3052.2 | 2975.9 | 2948.6 | 2926.7 | 2918.6 |
| 52.5° | 18234.3 | 7386.5  | 2913.2 | 2487.7 | 2626.7 | 2975.9 | 3060.5 | 2959.5 | 2929.5 | 2913.2 | 2904.9 |
| 55°   | 19928.3 | 7934.7  | 2825.9 | 2414.0 | 2561.2 | 2899.5 | 3060.5 | 2934.9 | 2902.3 | 2904.9 | 2902.3 |
| 57.5° | 22216.7 | 8821.1  | 2722.2 | 2351.3 | 2482.2 | 2806.8 | 3008.6 | 2907.7 | 2866.8 | 2869.4 | 2872.2 |
| 60°   | 25792.7 | 10384.1 | 2596.8 | 2288.6 | 2383.9 | 2697.6 | 2937.7 | 2847.7 | 2806.8 | 2817.7 | 2820.4 |
| 62.5° | 31051.5 | 12678.1 | 2433.1 | 2195.8 | 2280.3 | 2580.3 | 2839.4 | 2771.3 | 2730.4 | 2757.7 | 2757.7 |
| 65°   | 36517.7 | 14702.0 | 2231.2 | 2078.4 | 2171.2 | 2452.1 | 2716.7 | 2675.9 | 2634.9 | 2697.6 | 2694.9 |
| 67.5° | 37988.0 | 14249.3 | 2029.4 | 1950.3 | 2062.0 | 2310.3 | 2569.4 | 2547.6 | 2525.7 | 2634.9 | 2629.5 |
| 70°   | 33746.5 | 11439.8 | 1843.9 | 1819.3 | 1942.1 | 2157.6 | 2411.3 | 2411.3 | 2397.5 | 2479.4 | 2460.3 |
| 72.5° | 25710.8 | 8112.1  | 1666.6 | 1680.2 | 1805.7 | 1991.1 | 2239.4 | 2258.5 | 2236.6 | 2277.6 | 2261.2 |
| 75°   | 13763.7 | 4642.4  | 1489.3 | 1527.5 | 1636.6 | 1822.1 | 2048.5 | 2067.5 | 2054.0 | 2051.3 | 2059.3 |
| 77.5° | 4574.2  | 2269.5  | 1303.8 | 1363.8 | 1459.2 | 1647.5 | 1849.3 | 1879.4 | 1846.6 | 1841.1 | 1838.4 |
| 80°   | 2037.5  | 1426.6  | 1099.2 | 1178.4 | 1262.9 | 1448.3 | 1639.3 | 1663.9 | 1628.4 | 1677.4 | 1614.8 |
| 82.5° | 1309.3  | 938.3   | 881.0  | 968.4  | 1050.1 | 1249.3 | 1429.3 | 1434.8 | 1402.1 | 1628.4 | 1388.3 |
| 85°   | 635.6   | 581.0   | 662.7  | 741.9  | 812.9  | 981.9  | 1183.9 | 1186.5 | 1104.7 | 1006.5 | 971.1  |
| 87.5° | 316.5   | 338.2   | 441.9  | 512.8  | 548.3  | 673.7  | 861.9  | 845.5  | 810.1  | 736.5  | 679.1  |
| 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)