

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: P478344

Luminaire Tested: **IFLD-L-SA8C-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

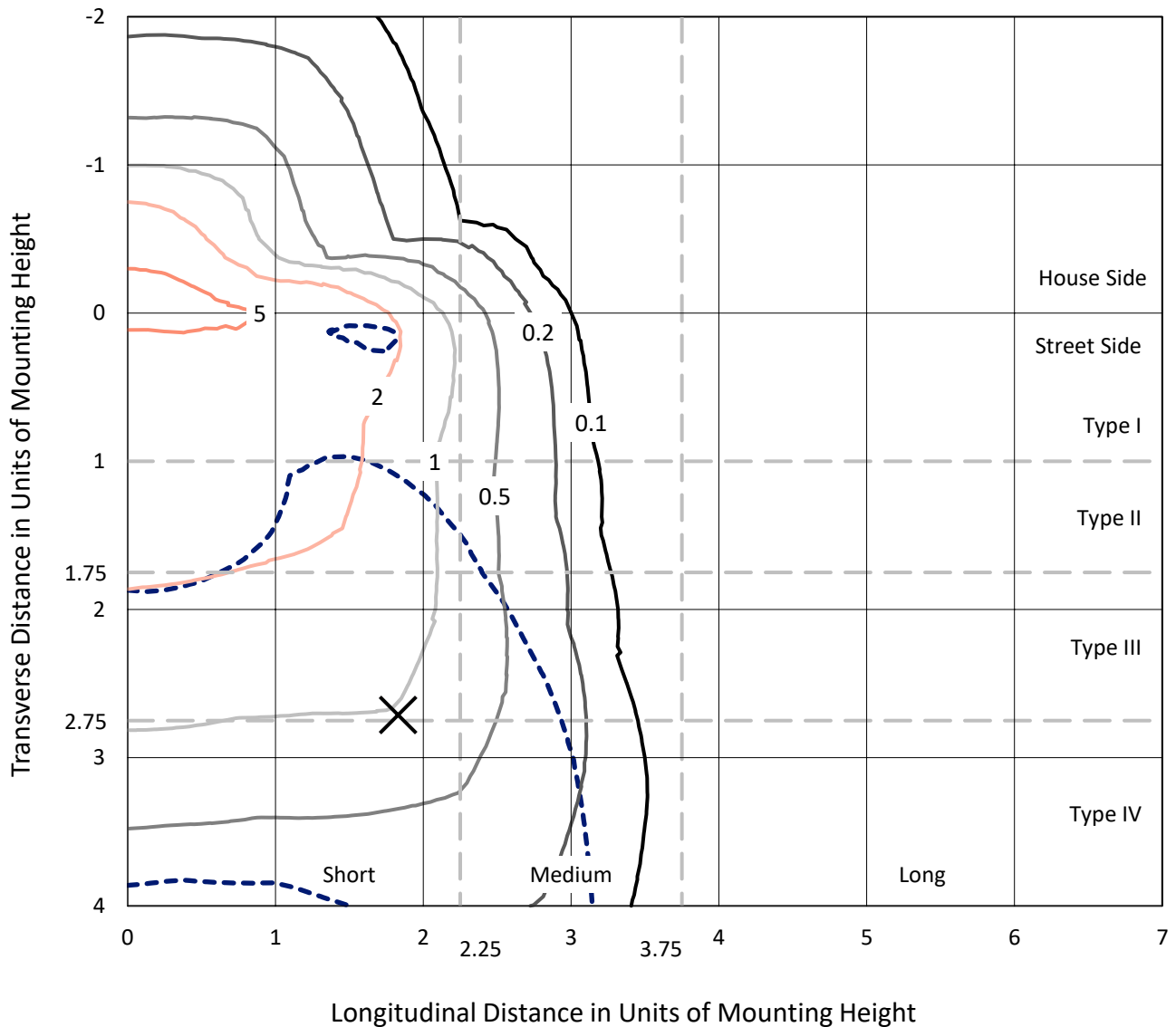
Lumens per Lamp: N/A
Luminaire Lumens: 41243.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
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

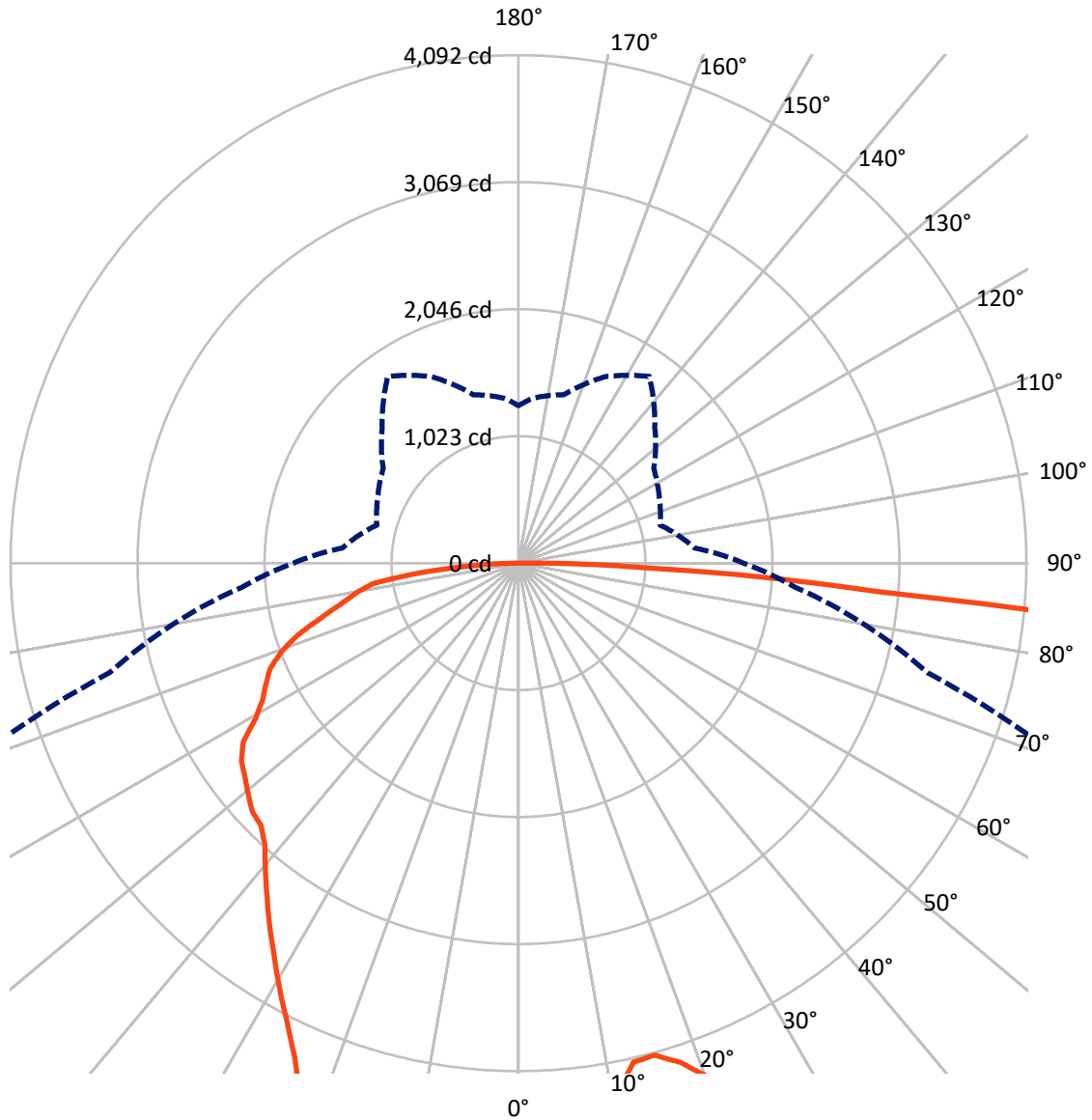
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8909.1 | 0.0 | 8909.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 32334.4 | 0.0 | 32334.4 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 41243.5 | 0.0 | 41243.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 545.7 | 1.3 |
| 10°-20° | 1527.3 | 3.7 |
| 20°-30° | 2513.7 | 6.1 |
| 30°-40° | 3759.2 | 9.1 |
| 40°-50° | 5572.8 | 13.5 |
| 50°-60° | 8031.0 | 19.5 |
| 60°-70° | 10248.7 | 24.8 |
| 70°-80° | 7975.2 | 19.3 |
| 80°-90° | 1069.9 | 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° | 41243.5 | 100.0 |
| 0°-180° | 41243.5 | 100.0 |

Coefficient of Utilization



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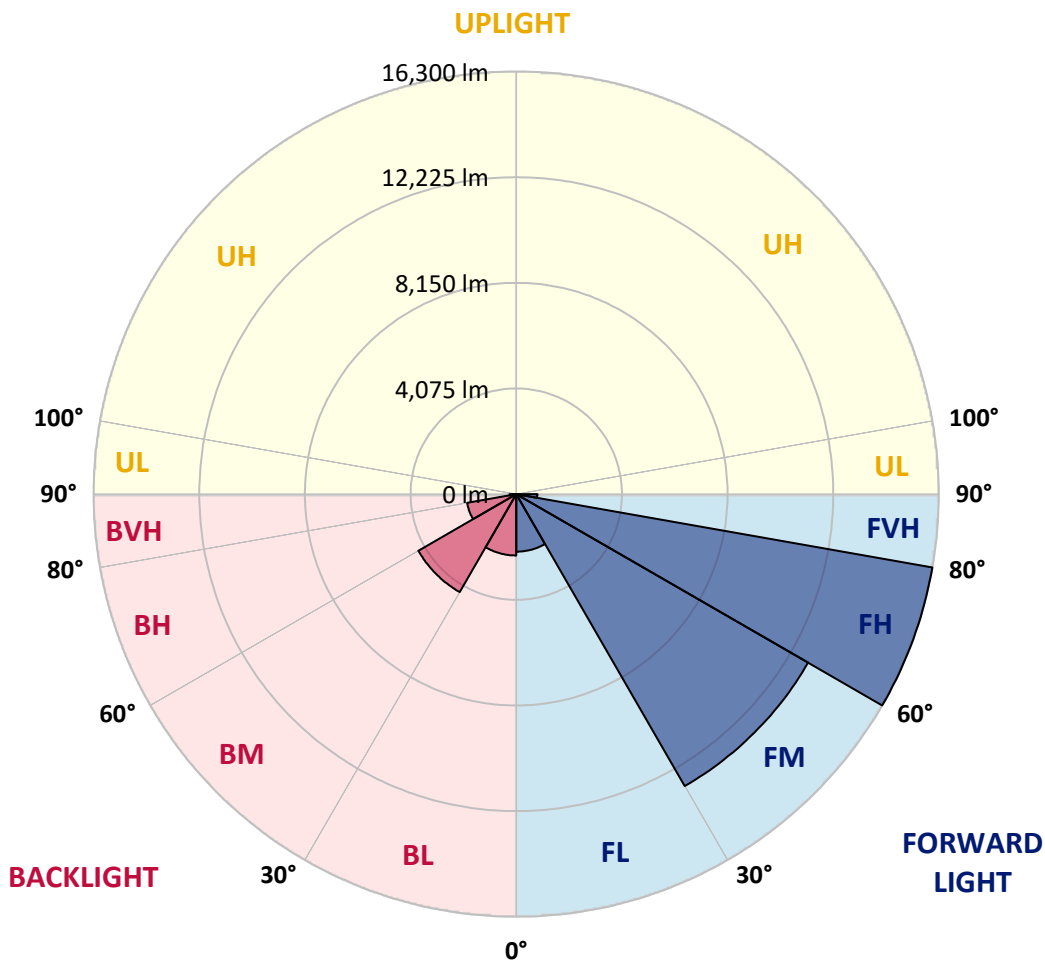
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2219.6 | 5.4 | | | |
| FM (30°-60°) | 13000.2 | 31.5 | | | |
| FH (60°-80°) | 16300.2 | 39.5 | | | G5 |
| FVH (80°-90°) | 814.4 | 2.0 | | | G5 |
| BL (0°-30°) | 2367.1 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 4362.8 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1923.7 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 255.5 | 0.6 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 |
| 2.5° | 5298.1 | 5315.5 | 5372.2 | 5385.3 | 5446.3 | 5411.4 | 5485.6 | 5616.4 | 5690.5 | 5799.5 | 5930.4 |
| 5° | 4879.5 | 4805.3 | 4840.2 | 4975.4 | 5045.2 | 5062.6 | 5141.1 | 5363.5 | 5503.0 | 5664.4 | 5908.6 |
| 7.5° | 4386.7 | 4373.6 | 4443.4 | 4530.6 | 4670.2 | 4683.2 | 4857.7 | 5053.9 | 5341.7 | 5699.2 | 5987.0 |
| 10° | 4051.0 | 4107.6 | 4146.9 | 4238.5 | 4334.4 | 4334.4 | 4556.8 | 4896.9 | 5223.9 | 5568.4 | 6004.5 |
| 12.5° | 4033.5 | 3998.6 | 4007.3 | 4055.3 | 4125.1 | 4212.3 | 4421.6 | 4726.8 | 5141.1 | 5542.3 | 6078.6 |
| 15° | 4090.2 | 4103.3 | 4024.8 | 4085.8 | 4112.0 | 4142.5 | 4373.6 | 4718.1 | 5088.8 | 5633.8 | 6205.1 |
| 17.5° | 4391.1 | 4316.9 | 4194.9 | 4138.2 | 4229.7 | 4229.7 | 4386.7 | 4657.1 | 5097.5 | 5681.8 | 6388.2 |
| 20° | 4626.5 | 4626.5 | 4426.0 | 4364.9 | 4430.3 | 4417.2 | 4526.3 | 4726.8 | 5141.1 | 5777.7 | 6593.2 |
| 22.5° | 5023.4 | 5080.0 | 4748.6 | 4622.2 | 4617.8 | 4652.7 | 4748.6 | 4918.7 | 5263.2 | 5912.9 | 6789.4 |
| 25° | 5594.6 | 5607.7 | 5223.9 | 5093.1 | 4953.6 | 5010.3 | 5027.7 | 5197.8 | 5372.2 | 6069.9 | 7011.8 |
| 27.5° | 6231.2 | 6222.5 | 5869.3 | 5542.3 | 5450.7 | 5463.8 | 5367.8 | 5481.2 | 5533.5 | 6117.9 | 7330.1 |
| 30° | 6937.6 | 6859.2 | 6593.2 | 6130.9 | 6056.8 | 5974.0 | 5764.7 | 5760.3 | 5869.3 | 6388.2 | 7770.5 |
| 32.5° | 7399.9 | 7299.6 | 7116.4 | 6785.0 | 6580.1 | 6588.8 | 6257.4 | 6253.0 | 6157.1 | 6684.7 | 8154.2 |
| 35° | 7853.4 | 7700.7 | 7652.8 | 7312.6 | 7107.7 | 7129.5 | 6863.5 | 6828.6 | 6654.2 | 7133.9 | 8786.5 |
| 37.5° | 8398.4 | 8263.3 | 8337.4 | 8080.1 | 7827.2 | 7722.5 | 7600.4 | 7556.8 | 7330.1 | 7766.1 | 9649.9 |
| 40° | 9000.2 | 8956.6 | 8908.6 | 8782.2 | 8629.5 | 8638.3 | 8507.4 | 8463.8 | 8128.1 | 8529.2 | 10478.4 |
| 42.5° | 9811.2 | 9645.5 | 9397.0 | 9479.8 | 9558.3 | 9641.2 | 9597.6 | 9484.2 | 9135.4 | 9305.4 | 11402.8 |
| 45° | 10565.6 | 10347.6 | 9889.7 | 9915.9 | 10238.6 | 10304.0 | 10831.6 | 10818.5 | 10116.5 | 10290.9 | 12453.7 |
| 47.5° | 11075.8 | 10975.5 | 10700.8 | 10670.3 | 11132.5 | 11128.1 | 12078.7 | 12078.7 | 11149.9 | 11272.0 | 13583.1 |
| 50° | 11834.5 | 11572.9 | 11455.2 | 11607.8 | 11843.3 | 12004.6 | 13352.0 | 13434.9 | 12165.9 | 12296.8 | 15061.4 |
| 52.5° | 12724.1 | 12397.1 | 12100.5 | 12493.0 | 12911.6 | 13016.3 | 14612.2 | 14577.3 | 12946.5 | 13487.2 | 16792.5 |
| 55° | 13461.0 | 13295.3 | 13090.4 | 13317.1 | 14001.7 | 14132.6 | 15876.8 | 15554.1 | 13727.0 | 14472.7 | 17625.4 |
| 57.5° | 14320.1 | 14420.4 | 14464.0 | 14407.3 | 15222.7 | 15427.6 | 17320.1 | 16395.7 | 14398.6 | 15135.5 | 18113.7 |
| 60° | 15615.1 | 15676.2 | 15732.9 | 15868.1 | 16731.4 | 17019.2 | 18462.6 | 17450.9 | 14821.5 | 15519.2 | 18153.0 |
| 62.5° | 17586.1 | 17350.6 | 17477.1 | 17943.7 | 18637.0 | 18964.1 | 20145.8 | 18192.2 | 15144.2 | 15750.3 | 16871.0 |
| 65° | 19840.5 | 19522.2 | 19391.4 | 19993.1 | 21789.7 | 21528.1 | 22247.5 | 18746.0 | 14677.6 | 14886.9 | 14307.0 |
| 67.5° | 22125.5 | 22160.3 | 21824.6 | 23032.4 | 25234.5 | 25234.5 | 24201.1 | 19012.0 | 13413.1 | 12065.7 | 10033.6 |
| 70° | 23939.4 | 24048.5 | 24231.6 | 26573.2 | 30061.7 | 30589.3 | 26621.2 | 17921.9 | 10836.0 | 8032.1 | 5485.6 |
| 72.5° | 23913.3 | 23586.2 | 24523.8 | 28836.3 | 34448.4 | 34008.0 | 27127.0 | 14171.8 | 6763.2 | 3933.2 | 2516.0 |
| 73° | 23376.9 | 23102.2 | 24126.9 | 28814.5 | 34627.2 | 34212.9 | 26756.4 | 13064.2 | 5965.2 | 3410.0 | 2237.0 |
| 75° | 19090.5 | 18593.4 | 20337.6 | 26097.9 | 32037.0 | 32355.3 | 22731.6 | 8520.5 | 3270.4 | 2101.8 | 1574.2 |
| 77.5° | 8703.7 | 8921.7 | 11193.5 | 17507.6 | 24689.5 | 25064.5 | 14943.6 | 3684.7 | 1792.2 | 1473.9 | 1159.9 |
| 80° | 2795.1 | 2934.7 | 4356.2 | 8703.7 | 15475.6 | 16151.5 | 6907.1 | 1674.5 | 1277.6 | 1129.4 | 867.8 |
| 82.5° | 1068.3 | 1064.0 | 1827.1 | 3619.3 | 7334.5 | 7766.1 | 2524.8 | 1020.4 | 950.6 | 832.9 | 614.8 |
| 85° | 375.0 | 392.4 | 689.0 | 1430.3 | 2886.7 | 3021.9 | 876.5 | 566.9 | 658.4 | 558.2 | 353.2 |
| 87.5° | 130.8 | 135.2 | 244.2 | 518.9 | 994.2 | 1050.9 | 244.2 | 226.7 | 327.0 | 322.7 | 178.8 |
| 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° | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 | 5912.9 |
| 2.5° | 5974.0 | 6013.2 | 6026.3 | 6183.3 | 6183.3 | 6183.3 | 6244.3 | 6244.3 | 6226.9 | 6183.3 | 6287.9 |
| 5° | 6000.1 | 6069.9 | 6205.1 | 6340.2 | 6375.1 | 6405.7 | 6488.5 | 6418.7 | 6444.9 | 6401.3 | 6440.5 |
| 7.5° | 6074.3 | 6170.2 | 6423.1 | 6505.9 | 6449.3 | 6514.7 | 6427.5 | 6379.5 | 6331.5 | 6349.0 | 6287.9 |
| 10° | 6200.7 | 6322.8 | 6440.5 | 6593.2 | 6484.1 | 6418.7 | 6240.0 | 6196.3 | 6043.7 | 5991.4 | 6039.4 |
| 12.5° | 6357.7 | 6505.9 | 6706.5 | 6649.8 | 6440.5 | 6253.0 | 6061.2 | 5878.0 | 5786.5 | 5655.6 | 5690.5 |
| 15° | 6514.7 | 6684.7 | 6715.3 | 6619.3 | 6357.7 | 6122.2 | 5773.4 | 5516.1 | 5424.5 | 5306.8 | 5367.8 |
| 17.5° | 6684.7 | 6846.1 | 6793.7 | 6545.2 | 6192.0 | 5834.4 | 5437.6 | 5184.7 | 4992.8 | 4918.7 | 4918.7 |
| 20° | 6937.6 | 7016.1 | 6933.3 | 6423.1 | 5991.4 | 5520.5 | 5136.7 | 4848.9 | 4657.1 | 4626.5 | 4578.6 |
| 22.5° | 7133.9 | 7260.3 | 6889.7 | 6244.3 | 5699.2 | 5110.6 | 4670.2 | 4561.1 | 4504.5 | 4456.5 | 4395.4 |
| 25° | 7386.8 | 7382.4 | 6811.2 | 6078.6 | 5197.8 | 4622.2 | 4356.2 | 4347.5 | 4321.3 | 4303.9 | 4386.7 |
| 27.5° | 7626.6 | 7526.3 | 6719.6 | 5668.7 | 4678.9 | 4251.5 | 4107.6 | 4203.6 | 4242.8 | 4216.7 | 4251.5 |
| 30° | 8006.0 | 7840.3 | 6588.8 | 5232.7 | 4221.0 | 3876.5 | 3902.7 | 4033.5 | 4098.9 | 4138.2 | 4085.8 |
| 32.5° | 8407.1 | 8154.2 | 6318.4 | 4779.2 | 3815.5 | 3641.1 | 3702.1 | 3837.3 | 3915.8 | 3959.4 | 4007.3 |
| 35° | 8987.1 | 8398.4 | 6043.7 | 4186.1 | 3523.3 | 3497.2 | 3532.0 | 3606.2 | 3719.6 | 3750.1 | 3763.2 |
| 37.5° | 9702.2 | 8769.1 | 5673.1 | 3710.8 | 3296.6 | 3327.1 | 3362.0 | 3388.2 | 3392.5 | 3449.2 | 3427.4 |
| 40° | 10417.4 | 9083.0 | 5132.4 | 3257.3 | 3061.1 | 3226.8 | 3209.4 | 3161.4 | 3122.2 | 3069.8 | 3056.7 |
| 42.5° | 11045.3 | 9357.7 | 4530.6 | 2873.6 | 2851.8 | 3122.2 | 3065.5 | 2943.4 | 2851.8 | 2812.6 | 2747.1 |
| 45° | 11751.7 | 9745.8 | 3924.5 | 2633.8 | 2690.5 | 2995.7 | 2978.3 | 2790.8 | 2673.0 | 2533.5 | 2516.0 |
| 47.5° | 12667.4 | 10151.4 | 3344.5 | 2385.2 | 2537.8 | 2947.7 | 2956.5 | 2716.6 | 2546.6 | 2359.1 | 2332.9 |
| 50° | 13840.4 | 10735.7 | 2904.1 | 2280.6 | 2446.3 | 2878.0 | 2891.0 | 2616.3 | 2393.9 | 2202.1 | 2184.6 |
| 52.5° | 14965.4 | 11333.1 | 2537.8 | 2119.2 | 2385.2 | 2795.1 | 2825.6 | 2524.8 | 2267.5 | 2027.7 | 2040.7 |
| 55° | 15532.3 | 11115.1 | 2223.9 | 2001.5 | 2245.7 | 2659.9 | 2773.3 | 2459.4 | 2075.6 | 1909.9 | 1905.6 |
| 57.5° | 15658.8 | 10578.7 | 1975.3 | 1879.4 | 2128.0 | 2516.0 | 2686.1 | 2263.1 | 1988.4 | 1848.9 | 1831.4 |
| 60° | 15244.5 | 9641.2 | 1779.1 | 1748.6 | 1979.7 | 2367.8 | 2485.5 | 2158.5 | 1901.2 | 1787.8 | 1761.7 |
| 62.5° | 14224.1 | 8668.8 | 1643.9 | 1687.5 | 1853.2 | 2206.4 | 2359.1 | 2084.3 | 1818.4 | 1739.9 | 1683.2 |
| 65° | 11664.5 | 7129.5 | 1534.9 | 1569.8 | 1722.4 | 2049.5 | 2280.6 | 2001.5 | 1744.2 | 1670.1 | 1665.7 |
| 67.5° | 8080.1 | 4914.3 | 1447.7 | 1513.1 | 1617.8 | 1936.1 | 2202.1 | 1909.9 | 1648.3 | 1622.1 | 1587.2 |
| 70° | 4138.2 | 2620.7 | 1334.3 | 1386.7 | 1504.4 | 1792.2 | 2062.5 | 1814.0 | 1548.0 | 1543.6 | 1500.0 |
| 72.5° | 2097.4 | 1534.9 | 1203.5 | 1282.0 | 1364.9 | 1604.7 | 1888.1 | 1687.5 | 1421.5 | 1373.6 | 1303.8 |
| 73° | 1814.0 | 1421.5 | 1181.7 | 1251.5 | 1330.0 | 1552.4 | 1835.8 | 1657.0 | 1404.1 | 1334.3 | 1268.9 |
| 75° | 1321.2 | 1120.7 | 1059.6 | 1129.4 | 1190.4 | 1399.7 | 1661.4 | 1517.5 | 1290.7 | 1216.6 | 1155.5 |
| 77.5° | 989.8 | 863.4 | 880.8 | 959.3 | 1011.6 | 1207.9 | 1478.2 | 1373.6 | 1168.6 | 1068.3 | 1042.2 |
| 80° | 728.2 | 658.4 | 728.2 | 802.3 | 841.6 | 1064.0 | 1347.4 | 1190.4 | 985.5 | 872.1 | 850.3 |
| 82.5° | 518.9 | 479.7 | 562.5 | 610.5 | 627.9 | 880.8 | 1212.2 | 950.6 | 745.7 | 597.4 | 549.4 |
| 85° | 296.5 | 292.2 | 379.4 | 375.0 | 388.1 | 514.5 | 798.0 | 632.3 | 479.7 | 366.3 | 357.6 |
| 87.5° | 130.8 | 143.9 | 191.9 | 152.6 | 161.3 | 244.2 | 340.1 | 235.5 | 196.2 | 109.0 | 82.9 |
| 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)