

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: P193326

Luminaire Tested: **GAN-AF-08-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193326
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-08-LED-U-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 50260.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

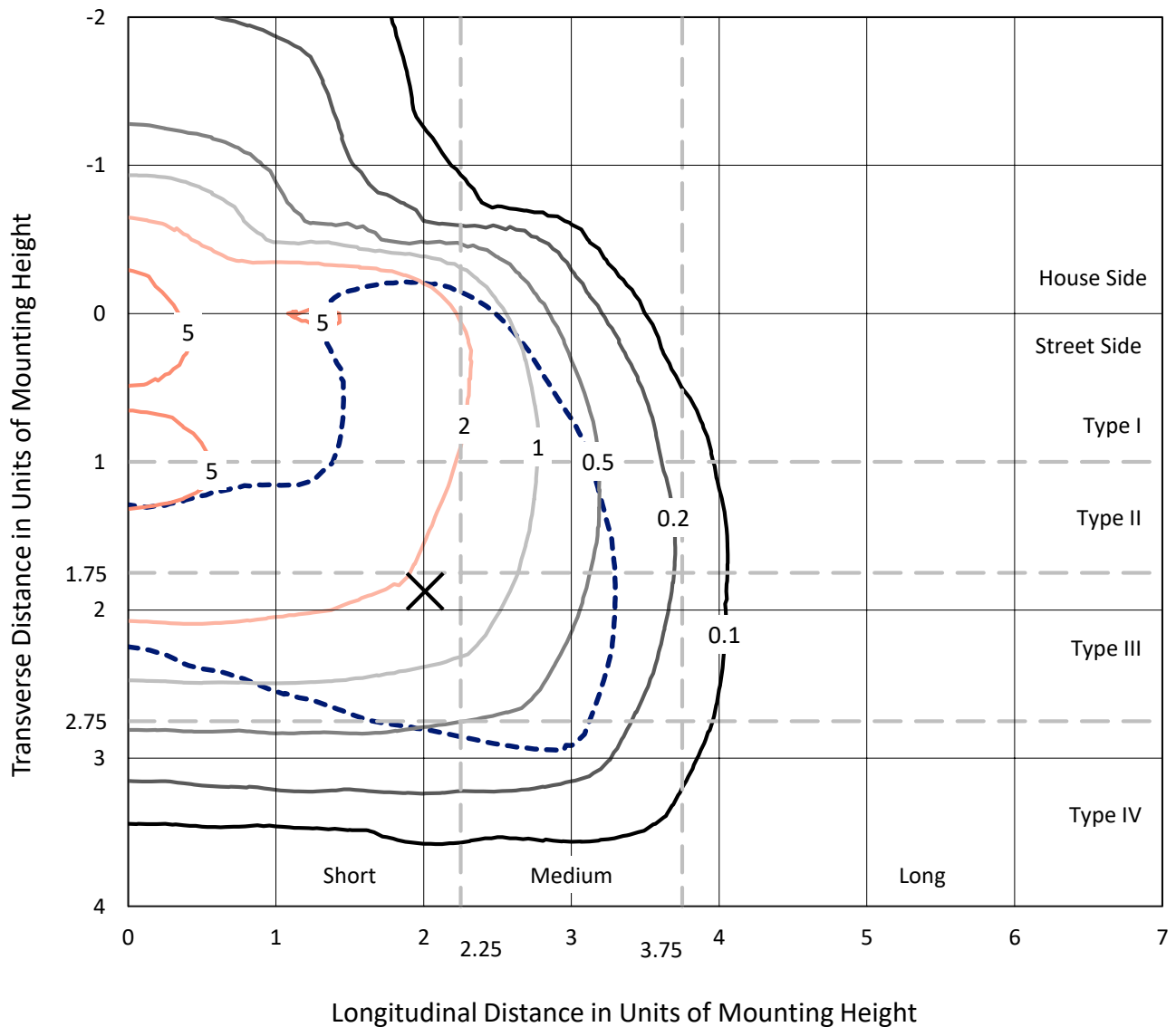
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

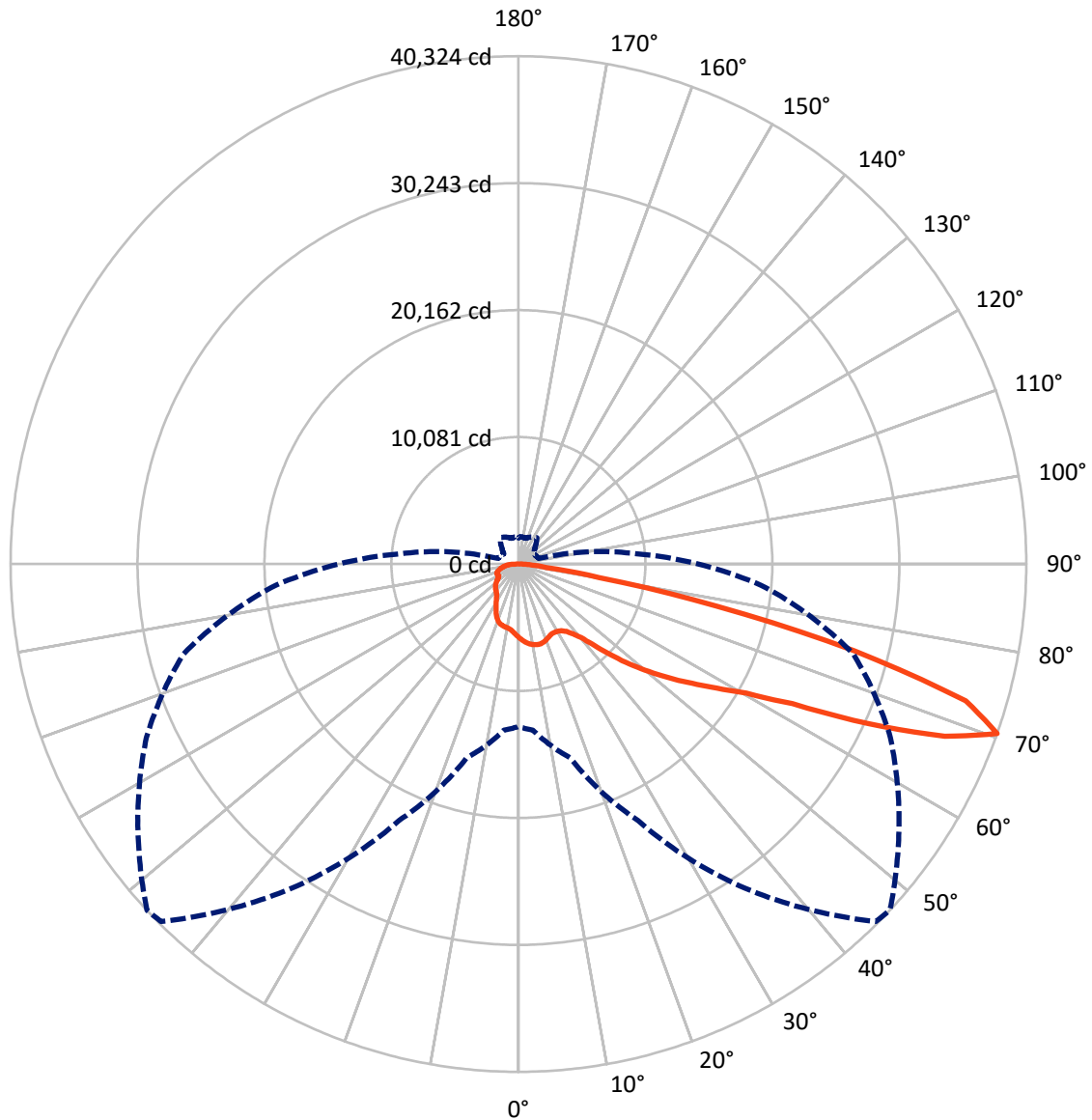
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10485.3 | 0.0 | 10485.3 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 39775.1 | 0.0 | 39775.1 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 50260.4 | 0.0 | 50260.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 558.8 | 1.1 |
| 10°-20° | 1639.3 | 3.3 |
| 20°-30° | 2420.8 | 4.8 |
| 30°-40° | 3518.6 | 7.0 |
| 40°-50° | 6332.3 | 12.6 |
| 50°-60° | 10970.1 | 21.8 |
| 60°-70° | 15657.4 | 31.2 |
| 70°-80° | 8037.7 | 16.0 |
| 80°-90° | 1125.3 | 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° | 50260.4 | 100.0 |
| 0°-180° | 50260.4 | 100.0 |

Coefficient of Utilization



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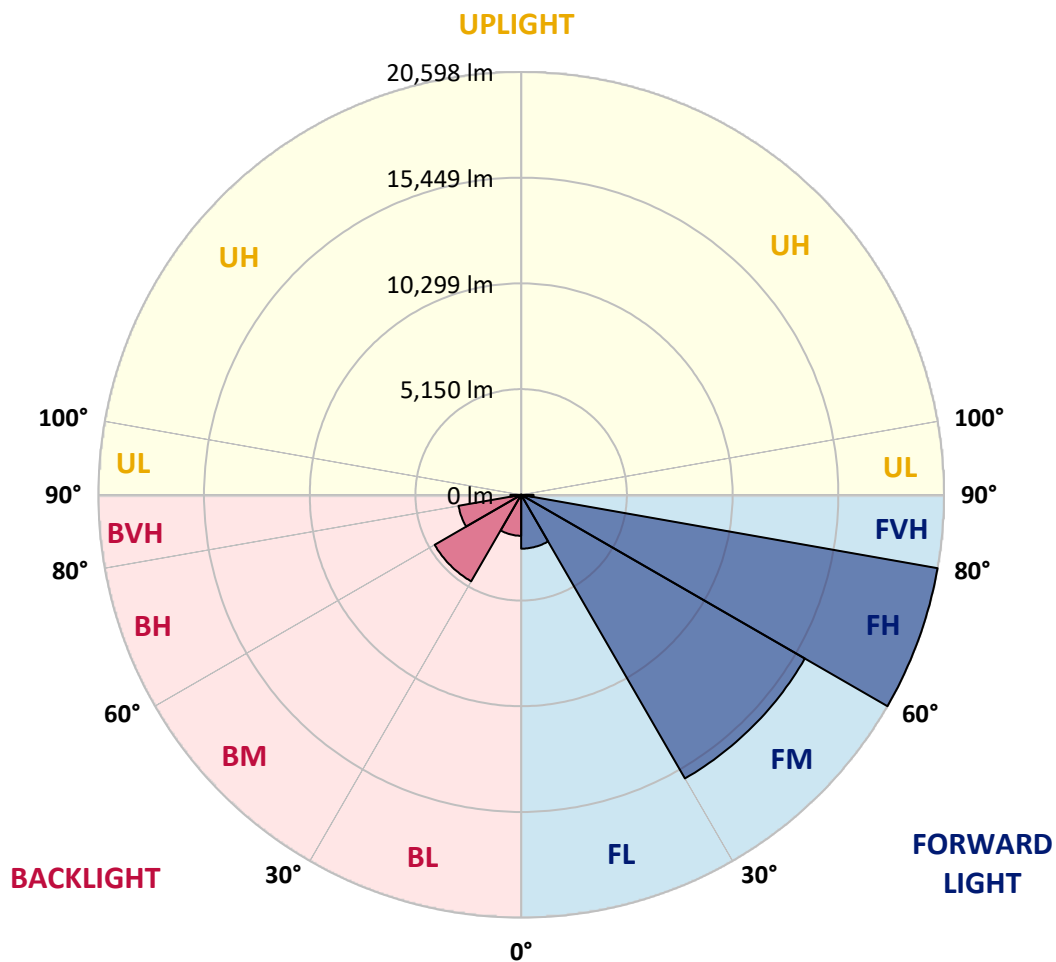
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2622.5 | 5.2 | | | |
| FM (30°-60°) | 15954.0 | 31.7 | | | |
| FH (60°-80°) | 20598.1 | 41.0 | | | G5 |
| FVH (80°-90°) | 600.5 | 1.2 | | | G4/750 |
| BL (0°-30°) | 1996.5 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 4867.0 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 3097.0 | 6.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 524.8 | 1.0 | | | G4/750 |
| 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° | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 |
| 2.5° | 6174.1 | 6161.9 | 6157.0 | 6147.2 | 6135.0 | 6073.8 | 6061.6 | 6017.6 | 5956.5 | 5892.9 | 5826.9 |
| 5° | 6580.0 | 6577.5 | 6550.6 | 6501.8 | 6423.5 | 6289.0 | 6257.3 | 6149.6 | 6005.3 | 5866.0 | 5726.6 |
| 7.5° | 6937.0 | 6915.0 | 6863.6 | 6765.9 | 6628.9 | 6445.5 | 6401.5 | 6252.4 | 6054.3 | 5863.5 | 5675.3 |
| 10° | 7198.6 | 7186.4 | 7073.9 | 6939.4 | 6761.0 | 6558.0 | 6506.6 | 6340.4 | 6122.8 | 5880.7 | 5646.0 |
| 12.5° | 7347.8 | 7323.3 | 7193.7 | 7032.4 | 6819.6 | 6621.5 | 6570.2 | 6401.5 | 6157.0 | 5880.7 | 5604.4 |
| 15° | 7338.0 | 7320.9 | 7191.3 | 7015.2 | 6800.1 | 6626.5 | 6580.0 | 6411.3 | 6149.6 | 5856.2 | 5550.6 |
| 17.5° | 7142.4 | 7149.7 | 7039.7 | 6866.1 | 6690.1 | 6558.0 | 6516.4 | 6359.9 | 6100.7 | 5807.3 | 5487.0 |
| 20° | 6800.1 | 6834.2 | 6761.0 | 6606.9 | 6509.1 | 6418.7 | 6391.6 | 6259.7 | 6024.9 | 5736.4 | 5418.5 |
| 22.5° | 6457.8 | 6489.6 | 6460.2 | 6330.6 | 6315.9 | 6262.0 | 6247.5 | 6152.1 | 5958.9 | 5692.4 | 5376.9 |
| 25° | 6205.9 | 6235.2 | 6230.3 | 6117.9 | 6161.9 | 6159.4 | 6147.2 | 6100.7 | 5944.2 | 5692.4 | 5384.3 |
| 27.5° | 6137.4 | 6147.2 | 6137.4 | 6034.7 | 6095.8 | 6144.7 | 6135.0 | 6127.6 | 5988.3 | 5763.3 | 5477.1 |
| 30° | 6372.1 | 6357.5 | 6281.7 | 6073.8 | 6130.1 | 6198.5 | 6188.8 | 6193.7 | 6120.2 | 5949.1 | 5685.1 |
| 32.5° | 7308.7 | 7242.7 | 7003.0 | 6418.7 | 6269.4 | 6306.1 | 6311.1 | 6391.6 | 6403.9 | 6235.2 | 6007.8 |
| 35° | 8709.7 | 8636.4 | 8325.9 | 7342.9 | 6702.3 | 6575.1 | 6575.1 | 6697.4 | 6770.7 | 6646.0 | 6509.1 |
| 37.5° | 10194.0 | 10113.2 | 9947.0 | 8624.2 | 7611.9 | 7042.1 | 7030.0 | 7115.5 | 7220.6 | 7250.0 | 7284.2 |
| 40° | 11881.2 | 11795.5 | 11842.1 | 10061.9 | 8880.9 | 7851.5 | 7677.8 | 7616.8 | 7900.4 | 8088.7 | 8362.4 |
| 42.5° | 13727.3 | 13688.1 | 13705.3 | 11663.5 | 10326.0 | 9061.9 | 8814.9 | 8499.5 | 8841.8 | 9176.8 | 9751.4 |
| 45° | 15436.4 | 15470.7 | 15453.5 | 13377.6 | 11934.9 | 10538.7 | 10277.2 | 9665.8 | 10000.8 | 10575.4 | 11511.9 |
| 47.5° | 16932.9 | 16791.1 | 17011.1 | 15250.6 | 13737.0 | 12191.7 | 11869.0 | 11049.8 | 11389.6 | 12098.9 | 13683.3 |
| 50° | 18749.7 | 18730.1 | 18407.4 | 17749.6 | 15915.7 | 13852.0 | 13428.9 | 12480.2 | 13008.4 | 13993.8 | 16419.4 |
| 52.5° | 20659.4 | 20304.8 | 20008.9 | 19693.6 | 18226.4 | 15553.8 | 15035.5 | 13905.8 | 14910.7 | 16150.4 | 19754.6 |
| 55° | 21050.6 | 20891.7 | 21258.5 | 21789.0 | 20454.0 | 17321.6 | 16717.8 | 15693.2 | 17052.7 | 18615.1 | 23600.9 |
| 57.5° | 21886.9 | 21884.4 | 22642.5 | 23588.7 | 22747.6 | 19197.2 | 18588.3 | 17852.3 | 19461.3 | 21439.4 | 27684.3 |
| 60° | 22451.6 | 22610.6 | 24019.0 | 25855.3 | 24999.6 | 21363.6 | 20803.6 | 20344.0 | 22199.9 | 24596.1 | 31489.1 |
| 62.5° | 22747.6 | 22962.7 | 24884.7 | 26774.7 | 28183.2 | 24970.2 | 24410.2 | 23747.6 | 25823.7 | 28058.6 | 33714.2 |
| 65° | 21517.6 | 21940.7 | 24750.2 | 27569.5 | 30970.7 | 30816.7 | 30564.8 | 29400.9 | 30354.5 | 30794.6 | 32909.8 |
| 67.5° | 18113.9 | 18546.8 | 21818.4 | 26828.6 | 32961.2 | 36455.2 | 36509.1 | 34521.1 | 33142.0 | 31029.4 | 27669.7 |
| 70° | 12905.7 | 13245.6 | 15952.4 | 22493.2 | 31445.1 | 40140.1 | 40323.5 | 36880.7 | 32587.0 | 27518.1 | 19331.7 |
| 72.5° | 6127.6 | 6335.5 | 8898.1 | 14639.3 | 24953.0 | 36778.0 | 37132.6 | 33868.3 | 27708.8 | 20373.2 | 10546.0 |
| 75° | 2252.1 | 2315.6 | 3007.6 | 6227.9 | 14473.0 | 27122.0 | 27540.1 | 24278.3 | 18368.2 | 10142.6 | 4017.5 |
| 77.5° | 1349.8 | 1391.3 | 1687.2 | 2628.6 | 5692.4 | 15502.5 | 16121.1 | 13204.0 | 8027.5 | 3775.4 | 1975.7 |
| 80° | 943.9 | 973.2 | 1210.4 | 1635.8 | 2689.8 | 5907.5 | 6457.8 | 5389.2 | 3198.3 | 2389.0 | 1437.8 |
| 82.5° | 638.2 | 652.9 | 850.9 | 1105.2 | 1787.5 | 2110.3 | 2276.4 | 2396.3 | 2156.7 | 1777.6 | 912.1 |
| 85° | 418.1 | 432.7 | 577.1 | 728.6 | 1137.1 | 1090.5 | 1115.0 | 1410.9 | 1574.7 | 1208.0 | 506.2 |
| 87.5° | 239.6 | 249.4 | 347.2 | 388.8 | 557.6 | 462.1 | 467.1 | 743.3 | 1007.4 | 814.2 | 308.1 |
| 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° | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 | 5831.7 |
| 2.5° | 5809.8 | 5777.9 | 5707.0 | 5663.0 | 5621.5 | 5611.7 | 5594.6 | 5592.1 | 5589.7 | 5589.7 | 5582.4 |
| 5° | 5680.2 | 5626.5 | 5516.4 | 5455.2 | 5403.9 | 5398.9 | 5396.6 | 5408.8 | 5413.7 | 5418.5 | 5411.2 |
| 7.5° | 5597.1 | 5523.7 | 5386.7 | 5298.7 | 5237.6 | 5222.9 | 5247.4 | 5303.6 | 5340.3 | 5354.9 | 5347.5 |
| 10° | 5545.7 | 5455.2 | 5296.3 | 5201.0 | 5149.6 | 5142.2 | 5174.0 | 5240.1 | 5315.8 | 5345.2 | 5342.8 |
| 12.5° | 5487.0 | 5384.3 | 5215.6 | 5115.3 | 5086.0 | 5100.7 | 5142.2 | 5203.4 | 5281.6 | 5328.0 | 5330.5 |
| 15° | 5428.3 | 5308.5 | 5134.8 | 5046.9 | 5034.6 | 5054.3 | 5093.3 | 5139.8 | 5201.0 | 5247.4 | 5252.3 |
| 17.5° | 5357.4 | 5232.7 | 5059.1 | 4968.6 | 4958.8 | 4968.6 | 4971.1 | 4995.6 | 5034.6 | 5078.7 | 5090.8 |
| 20° | 5281.6 | 5154.5 | 4973.5 | 4883.1 | 4839.0 | 4799.9 | 4755.8 | 4760.8 | 4773.0 | 4817.0 | 4826.7 |
| 22.5° | 5227.8 | 5100.7 | 4907.5 | 4782.9 | 4665.4 | 4548.0 | 4460.0 | 4447.8 | 4452.7 | 4489.4 | 4501.6 |
| 25° | 5232.7 | 5098.2 | 4890.3 | 4675.2 | 4418.5 | 4230.2 | 4112.8 | 4093.3 | 4090.7 | 4117.7 | 4134.8 |
| 27.5° | 5328.0 | 5193.5 | 4954.0 | 4565.2 | 4149.4 | 3870.7 | 3746.1 | 3731.3 | 3711.7 | 3719.0 | 3738.7 |
| 30° | 5540.7 | 5416.1 | 5108.0 | 4452.7 | 3858.5 | 3518.5 | 3389.0 | 3374.4 | 3347.4 | 3335.2 | 3349.9 |
| 32.5° | 5888.0 | 5785.3 | 5333.0 | 4345.1 | 3567.6 | 3217.9 | 3085.8 | 3054.1 | 3037.0 | 3022.2 | 3034.4 |
| 35° | 6465.1 | 6421.0 | 5633.7 | 4227.7 | 3310.8 | 2985.6 | 2865.8 | 2816.8 | 2792.4 | 2819.3 | 2838.9 |
| 37.5° | 7369.7 | 7394.2 | 6027.4 | 4044.3 | 3112.7 | 2831.6 | 2731.3 | 2675.0 | 2638.4 | 2660.4 | 2682.4 |
| 40° | 8651.0 | 8668.2 | 6462.5 | 3785.2 | 2941.6 | 2741.1 | 2633.4 | 2582.2 | 2530.8 | 2491.6 | 2489.2 |
| 42.5° | 10333.3 | 10159.7 | 6890.6 | 3504.0 | 2743.5 | 2684.8 | 2565.0 | 2501.4 | 2423.2 | 2315.6 | 2293.6 |
| 45° | 12328.6 | 11719.8 | 7215.7 | 3181.2 | 2520.9 | 2616.3 | 2489.2 | 2401.2 | 2278.9 | 2161.5 | 2149.3 |
| 47.5° | 14627.1 | 13394.7 | 7374.7 | 2846.2 | 2313.1 | 2516.1 | 2396.3 | 2256.9 | 2102.9 | 2044.1 | 2036.8 |
| 50° | 17434.2 | 15382.6 | 7450.5 | 2520.9 | 2132.2 | 2384.0 | 2261.7 | 2098.0 | 1968.5 | 1956.2 | 1948.8 |
| 52.5° | 20630.0 | 17774.1 | 7475.0 | 2254.4 | 1983.0 | 2212.9 | 2151.8 | 1992.8 | 1890.0 | 1899.9 | 1899.9 |
| 55° | 23975.1 | 20243.7 | 7142.4 | 2061.2 | 1846.2 | 2036.8 | 2078.4 | 1951.3 | 1865.7 | 1904.8 | 1919.4 |
| 57.5° | 27046.1 | 22432.1 | 6095.8 | 1912.1 | 1716.6 | 1902.3 | 2051.6 | 1990.3 | 1931.7 | 2090.6 | 2100.4 |
| 60° | 29403.3 | 23725.6 | 4553.0 | 1777.6 | 1621.2 | 1855.9 | 2122.5 | 2139.6 | 2154.1 | 2533.1 | 2584.5 |
| 62.5° | 29897.2 | 23295.2 | 3129.8 | 1672.5 | 1577.1 | 1895.0 | 2252.1 | 2254.4 | 2237.3 | 2501.4 | 2533.1 |
| 65° | 27630.6 | 20573.7 | 2276.4 | 1613.9 | 1540.4 | 1965.9 | 2362.0 | 2310.8 | 2198.2 | 2398.7 | 2340.0 |
| 67.5° | 21943.1 | 15500.1 | 1895.0 | 1569.8 | 1486.7 | 1960.9 | 2479.4 | 2362.0 | 2176.2 | 2349.8 | 2254.4 |
| 70° | 14243.1 | 9372.4 | 1687.2 | 1533.1 | 1423.1 | 1868.2 | 2547.9 | 2357.2 | 2112.6 | 2186.0 | 2073.5 |
| 72.5° | 6949.2 | 4191.0 | 1547.7 | 1479.4 | 1357.1 | 1738.6 | 2545.4 | 2313.1 | 2046.7 | 2041.7 | 1980.7 |
| 75° | 2719.0 | 1919.4 | 1420.7 | 1398.6 | 1244.6 | 1591.8 | 2477.0 | 2249.5 | 1968.5 | 1890.0 | 1868.2 |
| 77.5° | 1591.8 | 1369.3 | 1259.3 | 1278.9 | 1110.1 | 1445.1 | 2376.7 | 2139.6 | 1860.8 | 1767.9 | 1743.4 |
| 80° | 1159.0 | 1024.6 | 1073.5 | 1105.2 | 948.7 | 1298.4 | 2242.2 | 2005.0 | 1740.9 | 1787.5 | 1753.2 |
| 82.5° | 743.3 | 660.3 | 870.5 | 902.3 | 789.8 | 1149.2 | 2095.5 | 1863.2 | 1572.2 | 1428.0 | 1393.7 |
| 85° | 379.0 | 418.1 | 648.0 | 687.1 | 608.9 | 943.9 | 1917.1 | 1675.0 | 1381.6 | 1188.4 | 1208.0 |
| 87.5° | 212.7 | 286.0 | 413.2 | 462.1 | 430.4 | 726.2 | 1555.1 | 1381.6 | 1127.2 | 916.9 | 806.9 |
| 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)