

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: P192248

Luminaire Tested: **GAN-AF-10-LED-U-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47612 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

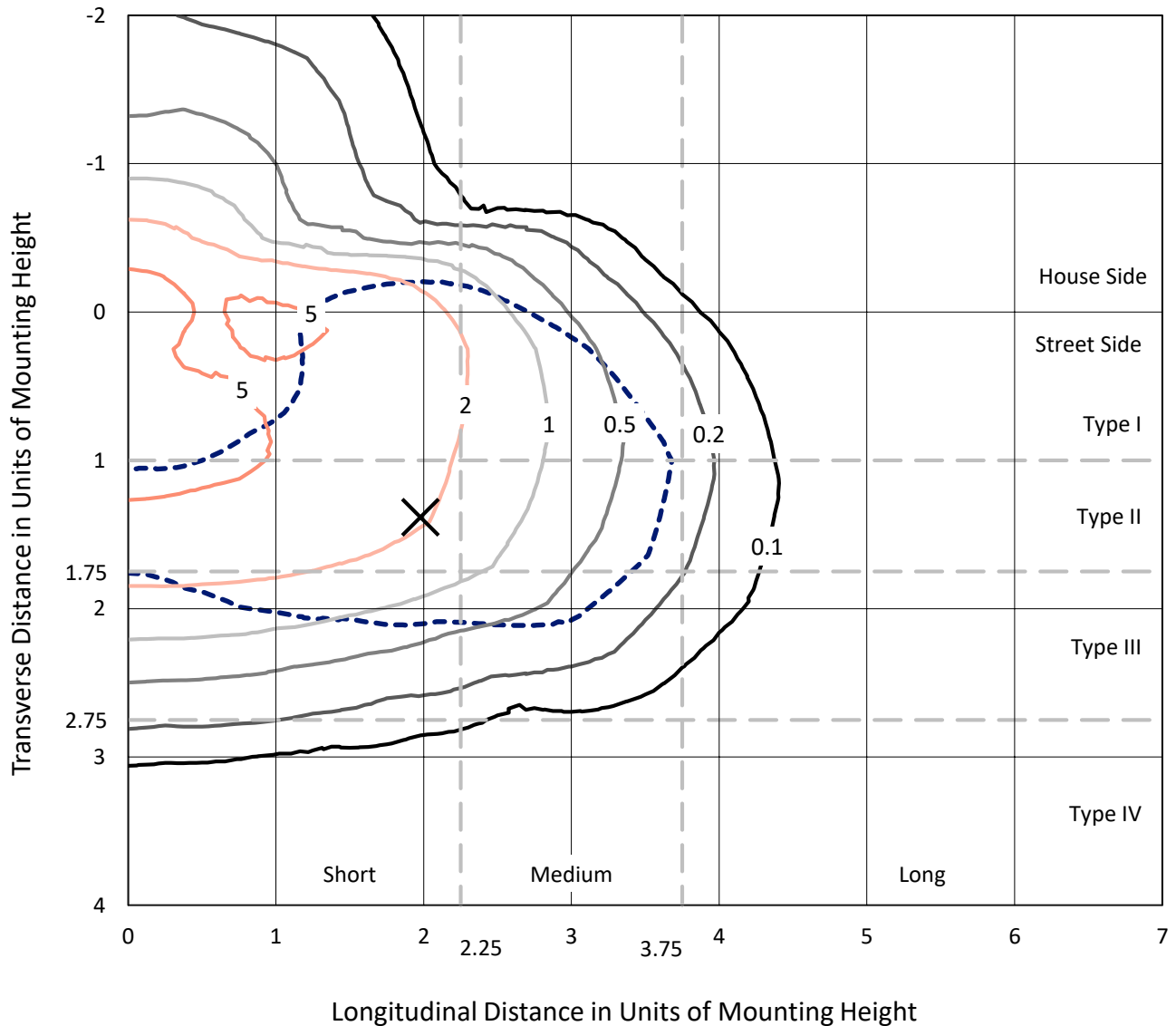
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

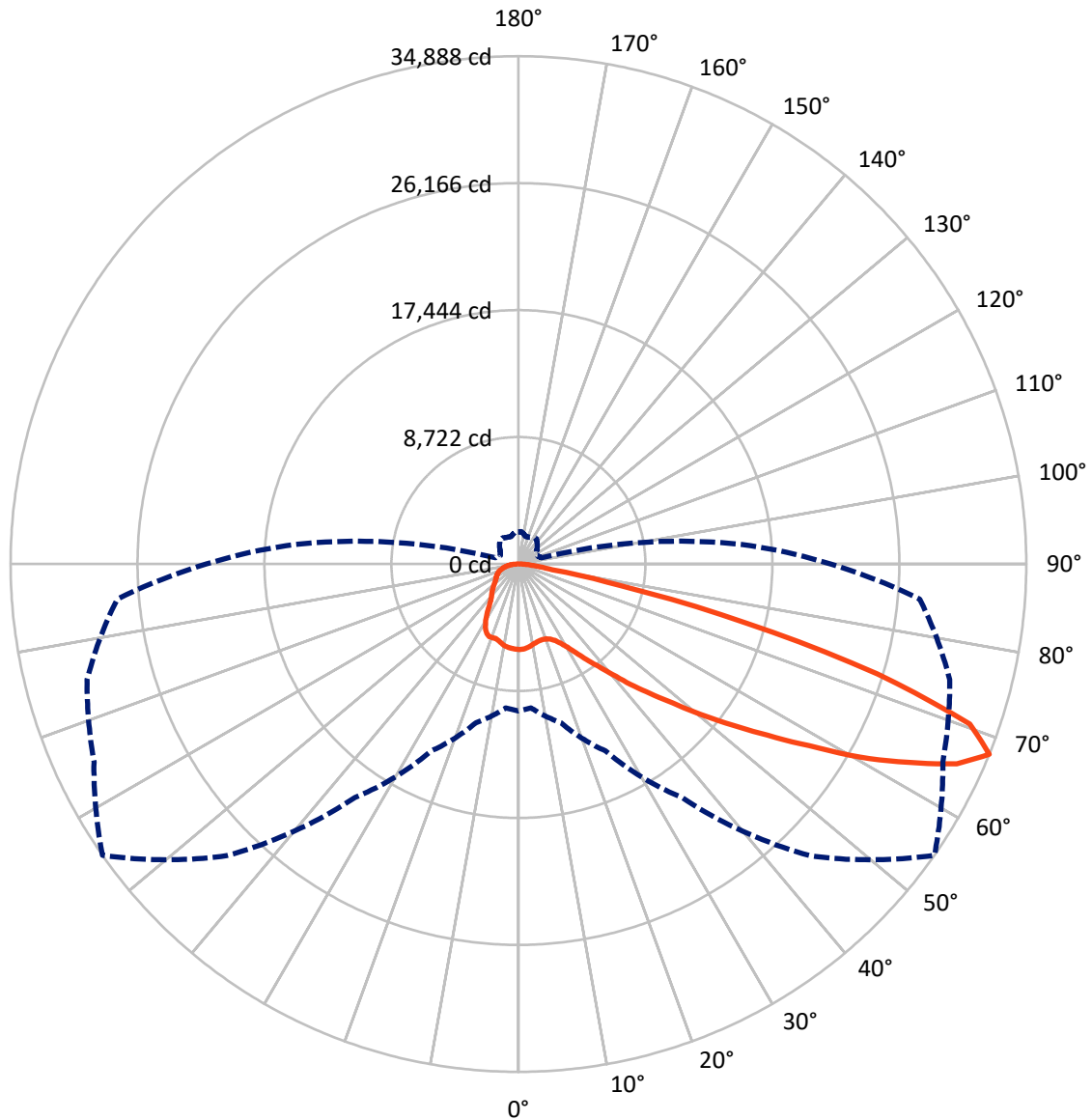
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10285.2 | 0.0 | 10285.2 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 37326.8 | 0.0 | 37326.8 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 47612.0 | 0.0 | 47612.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 548.0 | 1.2 |
| 10°-20° | 1552.0 | 3.3 |
| 20°-30° | 2599.8 | 5.5 |
| 30°-40° | 4275.3 | 9.0 |
| 40°-50° | 7196.6 | 15.1 |
| 50°-60° | 11326.9 | 23.8 |
| 60°-70° | 13517.4 | 28.4 |
| 70°-80° | 5804.6 | 12.2 |
| 80°-90° | 791.4 | 1.7 |
| 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° | 47612.0 | 100.0 |
| 0°-180° | 47612.0 | 100.0 |



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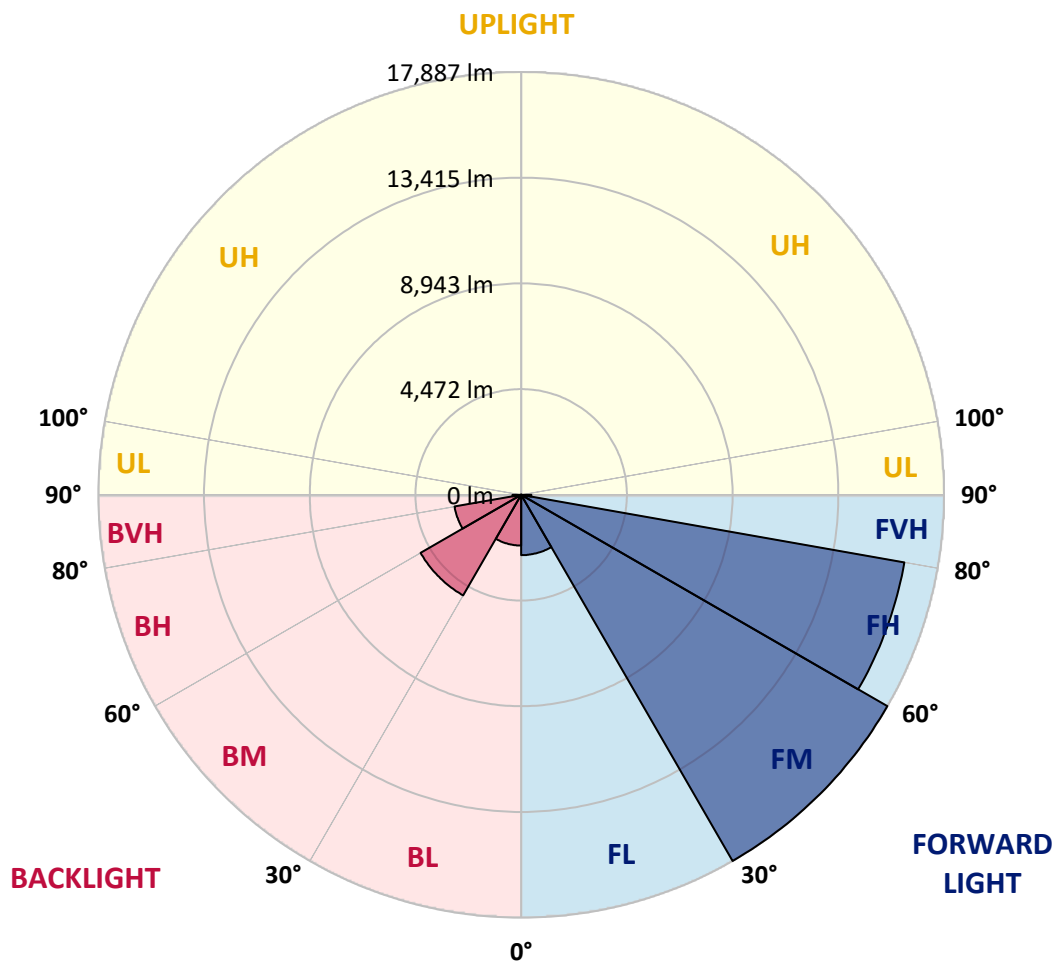
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2552.1 | 5.4 | | | |
| FM (30°-60°) | 17886.6 | 37.6 | | | |
| FH (60°-80°) | 16459.7 | 34.6 | | | G5 |
| FVH (80°-90°) | 428.4 | 0.9 | | | G3/500 |
| BL (0°-30°) | 2147.7 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 4912.1 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 2862.3 | 6.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 363.0 | 0.8 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 |
| 2.5° | 5820.5 | 5822.8 | 5827.4 | 5845.8 | 5861.9 | 5857.3 | 5859.6 | 5850.4 | 5848.1 | 5834.3 | 5848.1 |
| 5° | 5746.9 | 5753.8 | 5756.1 | 5786.0 | 5804.4 | 5809.0 | 5802.1 | 5790.6 | 5776.8 | 5763.0 | 5769.9 |
| 7.5° | 5579.0 | 5597.4 | 5599.7 | 5641.1 | 5671.0 | 5710.1 | 5712.4 | 5714.7 | 5707.8 | 5698.6 | 5712.4 |
| 10° | 5473.2 | 5477.8 | 5475.5 | 5505.4 | 5528.4 | 5572.1 | 5597.4 | 5641.1 | 5659.5 | 5664.1 | 5673.3 |
| 12.5° | 5466.3 | 5461.7 | 5454.8 | 5454.8 | 5447.9 | 5466.3 | 5512.3 | 5574.4 | 5618.1 | 5631.9 | 5643.4 |
| 15° | 5539.9 | 5537.6 | 5514.6 | 5480.1 | 5436.4 | 5422.6 | 5461.7 | 5530.7 | 5588.2 | 5618.1 | 5629.6 |
| 17.5° | 5705.5 | 5691.7 | 5654.9 | 5576.7 | 5482.4 | 5445.6 | 5450.2 | 5507.7 | 5574.4 | 5613.5 | 5625.0 |
| 20° | 6009.1 | 6009.1 | 5930.9 | 5783.7 | 5615.8 | 5528.4 | 5487.0 | 5521.5 | 5585.9 | 5638.8 | 5654.9 |
| 22.5° | 6533.4 | 6538.0 | 6406.9 | 6165.4 | 5882.6 | 5696.3 | 5592.8 | 5585.9 | 5661.8 | 5721.6 | 5740.0 |
| 25° | 7276.2 | 7257.8 | 7073.8 | 6728.9 | 6298.8 | 5990.7 | 5811.3 | 5769.9 | 5834.3 | 5901.0 | 5924.0 |
| 27.5° | 8140.9 | 8074.2 | 7855.7 | 7439.5 | 6882.9 | 6432.2 | 6156.2 | 6089.5 | 6151.6 | 6227.5 | 6250.5 |
| 30° | 8996.3 | 8927.4 | 8667.5 | 8212.2 | 7593.5 | 7023.2 | 6627.7 | 6519.6 | 6607.0 | 6715.1 | 6728.9 |
| 32.5° | 9851.8 | 9851.8 | 9562.1 | 9030.8 | 8357.0 | 7729.2 | 7255.5 | 7126.7 | 7271.6 | 7402.7 | 7432.6 |
| 35° | 10875.2 | 10879.8 | 10599.2 | 9959.9 | 9235.5 | 8570.9 | 8048.9 | 7954.6 | 8173.1 | 8265.0 | 8336.3 |
| 37.5° | 12133.1 | 12158.4 | 11797.4 | 11024.7 | 10231.3 | 9532.2 | 8911.3 | 8782.5 | 9000.9 | 9251.6 | 9481.6 |
| 40° | 13492.2 | 13524.4 | 13126.6 | 12174.5 | 11381.1 | 10649.8 | 9978.3 | 9746.0 | 10109.4 | 10587.7 | 10884.4 |
| 42.5° | 14789.2 | 14954.8 | 14570.8 | 13591.1 | 12737.9 | 11981.3 | 11300.6 | 10962.6 | 11417.9 | 12140.0 | 12397.6 |
| 45° | 16663.5 | 16783.1 | 16113.8 | 15226.2 | 14423.6 | 13577.3 | 12675.8 | 12319.4 | 12956.4 | 13867.1 | 13920.0 |
| 47.5° | 17912.2 | 17822.5 | 17482.2 | 16930.2 | 16422.0 | 15630.9 | 14274.1 | 13883.2 | 14729.4 | 15801.1 | 15504.4 |
| 50° | 18576.8 | 18604.4 | 18558.4 | 18590.6 | 18609.0 | 18112.3 | 16233.4 | 15697.6 | 16707.2 | 18001.9 | 17318.9 |
| 52.5° | 19197.7 | 19013.7 | 19165.5 | 19919.8 | 20830.5 | 20646.5 | 18365.2 | 17806.4 | 18827.5 | 20444.1 | 19236.8 |
| 55° | 19183.9 | 18903.4 | 19397.8 | 20729.3 | 22704.7 | 22916.3 | 20759.2 | 20115.3 | 21069.7 | 23063.5 | 21269.7 |
| 57.5° | 18505.5 | 18519.3 | 19280.5 | 21023.7 | 24010.9 | 25050.4 | 23537.2 | 22571.3 | 23447.5 | 25717.3 | 23125.6 |
| 60° | 17571.8 | 17698.3 | 18795.3 | 20975.4 | 25057.3 | 26800.5 | 26945.3 | 25218.3 | 25777.1 | 28129.7 | 24661.8 |
| 62.5° | 16065.6 | 16198.9 | 17712.1 | 20474.0 | 24898.6 | 28486.1 | 30026.9 | 28221.7 | 28212.5 | 29592.3 | 25112.5 |
| 65° | 13690.0 | 13650.9 | 15240.0 | 18599.8 | 23567.1 | 29732.5 | 33087.8 | 30818.0 | 30047.6 | 29615.3 | 24206.4 |
| 67.5° | 10095.6 | 9920.8 | 11284.5 | 14166.0 | 19588.7 | 28336.6 | 34888.4 | 32170.2 | 30673.1 | 27667.4 | 21437.6 |
| 70° | 5238.7 | 5063.9 | 6167.7 | 8271.9 | 12882.8 | 22116.0 | 32894.6 | 31471.1 | 29291.0 | 23192.3 | 16794.6 |
| 72.5° | 2239.9 | 2210.0 | 2658.4 | 3628.9 | 6232.1 | 12756.3 | 25793.2 | 27239.7 | 25133.2 | 17279.8 | 11546.7 |
| 75° | 1506.3 | 1497.1 | 1665.0 | 1977.7 | 2803.3 | 5176.6 | 16141.4 | 19335.7 | 18388.2 | 10714.2 | 6494.3 |
| 77.5° | 1182.0 | 1170.5 | 1269.4 | 1421.2 | 1816.7 | 2042.1 | 7163.5 | 10380.7 | 9608.1 | 4663.7 | 2842.4 |
| 80° | 924.5 | 915.3 | 977.4 | 1060.2 | 1306.2 | 1287.8 | 2357.2 | 4130.2 | 3196.6 | 1786.9 | 1382.1 |
| 82.5° | 729.0 | 729.0 | 779.6 | 781.9 | 926.8 | 878.5 | 1230.3 | 1819.0 | 1596.0 | 1041.8 | 846.3 |
| 85° | 666.9 | 666.9 | 719.8 | 584.1 | 604.8 | 554.2 | 763.5 | 1078.5 | 1011.9 | 427.7 | 367.9 |
| 87.5° | 335.8 | 326.6 | 604.8 | 517.4 | 328.9 | 294.4 | 372.5 | 522.0 | 561.1 | 236.9 | 184.0 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 | 5871.1 |
| 2.5° | 5843.5 | 5841.2 | 5845.8 | 5848.1 | 5866.5 | 5891.8 | 5903.3 | 5919.4 | 5928.6 | 5924.0 |
| 5° | 5774.5 | 5779.1 | 5797.5 | 5811.3 | 5843.5 | 5884.9 | 5907.9 | 5926.3 | 5942.4 | 5935.5 |
| 7.5° | 5717.0 | 5728.5 | 5756.1 | 5767.6 | 5786.0 | 5797.5 | 5795.2 | 5802.1 | 5815.9 | 5799.8 |
| 10° | 5684.8 | 5698.6 | 5719.3 | 5703.2 | 5659.5 | 5597.4 | 5539.9 | 5510.0 | 5519.2 | 5507.7 |
| 12.5° | 5652.6 | 5671.0 | 5654.9 | 5579.0 | 5457.1 | 5376.6 | 5333.0 | 5337.6 | 5358.3 | 5362.9 |
| 15° | 5634.2 | 5641.1 | 5572.1 | 5429.5 | 5305.4 | 5293.9 | 5316.9 | 5312.3 | 5314.6 | 5314.6 |
| 17.5° | 5634.2 | 5615.8 | 5487.0 | 5344.5 | 5291.6 | 5270.9 | 5199.6 | 5109.9 | 5070.8 | 5057.0 |
| 20° | 5664.1 | 5615.8 | 5459.4 | 5365.2 | 5250.2 | 5073.1 | 4884.5 | 4718.9 | 4645.4 | 4624.7 |
| 22.5° | 5753.8 | 5671.0 | 5537.6 | 5374.3 | 5047.8 | 4751.1 | 4452.2 | 4254.4 | 4121.0 | 4098.0 |
| 25° | 5935.5 | 5843.5 | 5691.7 | 5252.5 | 4725.8 | 4302.7 | 3962.3 | 3741.6 | 3608.2 | 3589.8 |
| 27.5° | 6252.8 | 6193.0 | 5774.5 | 4983.4 | 4298.1 | 3845.1 | 3530.0 | 3359.8 | 3260.9 | 3254.0 |
| 30° | 6731.2 | 6701.3 | 5733.1 | 4585.6 | 3771.5 | 3401.2 | 3249.4 | 3150.6 | 3077.0 | 3074.7 |
| 32.5° | 7494.7 | 7253.2 | 5597.4 | 4100.3 | 3290.8 | 3086.2 | 3024.1 | 2964.3 | 2906.8 | 2906.8 |
| 35° | 8476.6 | 7699.3 | 5339.9 | 3580.6 | 2998.8 | 2911.4 | 2833.2 | 2738.9 | 2663.0 | 2658.4 |
| 37.5° | 9631.1 | 7975.3 | 4877.6 | 3162.1 | 2860.8 | 2794.1 | 2679.1 | 2538.8 | 2405.5 | 2382.5 |
| 40° | 10797.0 | 8058.1 | 4226.8 | 2904.5 | 2773.4 | 2676.8 | 2536.5 | 2371.0 | 2242.2 | 2235.3 |
| 42.5° | 11866.3 | 7899.4 | 3536.9 | 2727.4 | 2686.0 | 2557.2 | 2410.1 | 2262.9 | 2161.7 | 2159.4 |
| 45° | 12763.2 | 7487.8 | 2957.4 | 2559.5 | 2594.0 | 2449.2 | 2318.1 | 2198.5 | 2120.3 | 2104.2 |
| 47.5° | 13607.2 | 6905.9 | 2550.3 | 2382.5 | 2502.1 | 2389.4 | 2279.0 | 2166.3 | 2090.4 | 2078.9 |
| 50° | 14586.9 | 6278.1 | 2265.2 | 2210.0 | 2421.6 | 2368.7 | 2311.2 | 2193.9 | 2067.4 | 2053.6 |
| 52.5° | 15773.5 | 5735.4 | 2042.1 | 2058.2 | 2359.5 | 2396.3 | 2394.0 | 2272.1 | 2051.3 | 2032.9 |
| 55° | 17098.1 | 5132.9 | 1874.2 | 1934.0 | 2334.2 | 2446.9 | 2414.7 | 2345.7 | 2065.1 | 2037.5 |
| 57.5° | 18402.0 | 4429.2 | 1757.0 | 1839.7 | 2297.4 | 2442.3 | 2315.8 | 2216.9 | 2097.3 | 2058.2 |
| 60° | 19379.4 | 3484.0 | 1667.3 | 1757.0 | 2216.9 | 2366.4 | 2207.7 | 2076.6 | 2090.4 | 2060.5 |
| 62.5° | 19443.8 | 2692.9 | 1559.2 | 1685.7 | 2095.0 | 2290.5 | 2136.4 | 2014.5 | 2120.3 | 2092.7 |
| 65° | 18300.8 | 2035.2 | 1455.7 | 1600.6 | 1963.9 | 2242.2 | 2067.4 | 1980.0 | 2182.4 | 2152.5 |
| 67.5° | 15407.8 | 1637.4 | 1368.3 | 1513.2 | 1832.8 | 2141.0 | 2005.3 | 1947.8 | 2237.6 | 2184.7 |
| 70° | 11123.5 | 1395.9 | 1283.2 | 1407.4 | 1715.6 | 2026.0 | 1950.1 | 1890.3 | 2088.1 | 2005.3 |
| 72.5° | 6848.4 | 1209.6 | 1186.6 | 1267.1 | 1625.9 | 1906.4 | 1867.3 | 1782.3 | 1881.1 | 1814.4 |
| 75° | 3419.6 | 1048.7 | 1078.5 | 1129.1 | 1499.4 | 1770.8 | 1729.4 | 1644.3 | 1658.1 | 1644.3 |
| 77.5° | 1637.4 | 896.9 | 952.1 | 991.2 | 1336.1 | 1616.7 | 1573.0 | 1485.6 | 1469.5 | 1471.8 |
| 80° | 1037.2 | 749.7 | 802.6 | 830.2 | 1193.5 | 1437.3 | 1393.6 | 1306.2 | 1490.2 | 1382.1 |
| 82.5° | 648.5 | 609.4 | 623.2 | 673.8 | 1039.5 | 1251.0 | 1193.5 | 1115.3 | 1343.0 | 1062.5 |
| 85° | 358.7 | 425.4 | 443.8 | 487.5 | 800.3 | 1046.4 | 988.9 | 890.0 | 798.0 | 784.2 |
| 87.5° | 213.9 | 253.0 | 259.9 | 292.1 | 538.1 | 756.6 | 669.2 | 634.7 | 526.6 | 524.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)