

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: P267268

Luminaire Tested: **GAN-AF-09-LED-U-T3-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267268
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-09-LED-U-T3-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46242.5 lumens
Efficiency: N/A
Efficacy: 92.3 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

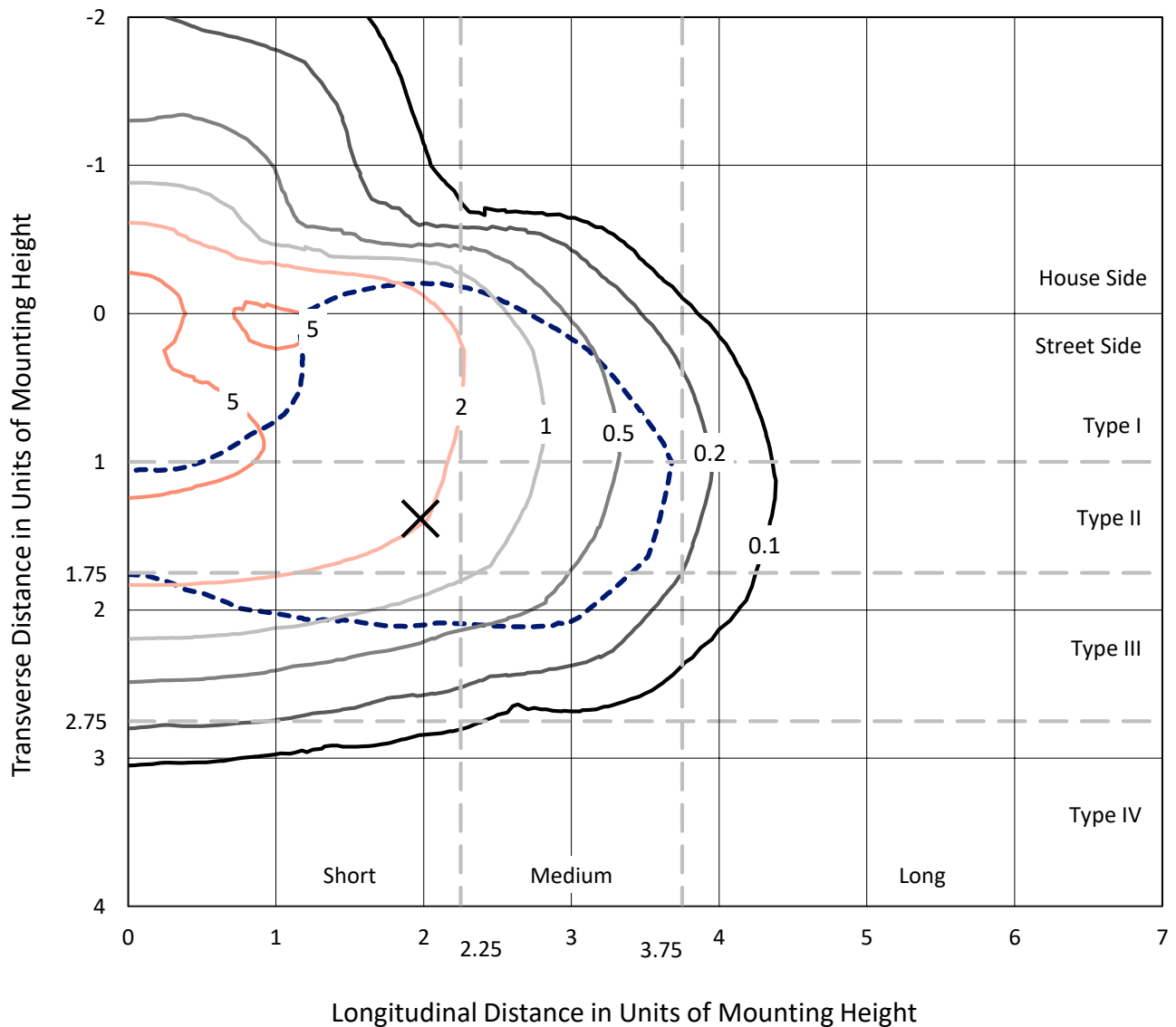
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

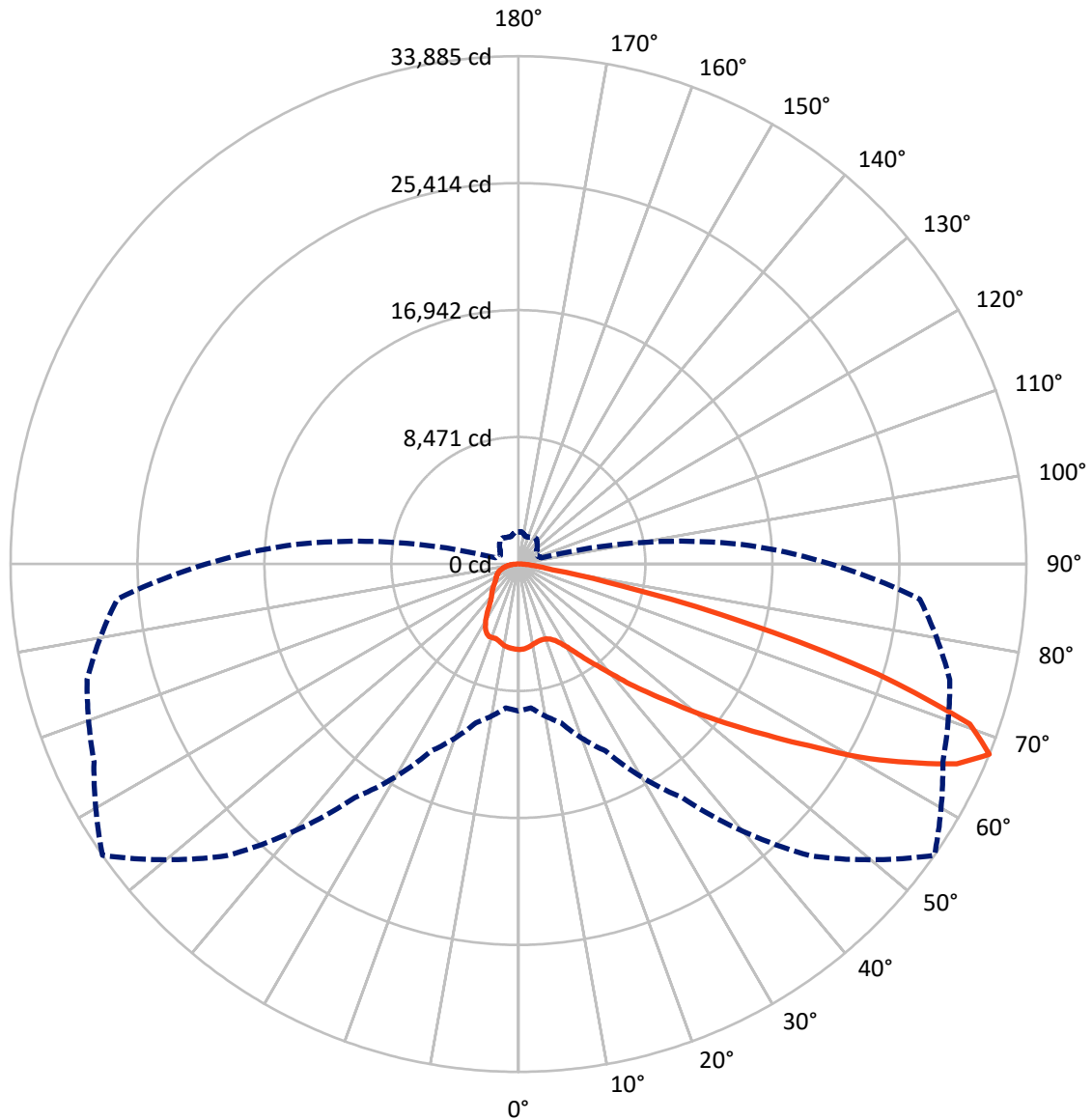
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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 | 9989.4 | 0.0 | 9989.4 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 36253.1 | 0.0 | 36253.1 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 46242.5 | 0.0 | 46242.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 532.2 | 1.2 |
| 10°-20° | 1507.4 | 3.3 |
| 20°-30° | 2525.1 | 5.5 |
| 30°-40° | 4152.3 | 9.0 |
| 40°-50° | 6989.6 | 15.1 |
| 50°-60° | 11001.1 | 23.8 |
| 60°-70° | 13128.6 | 28.4 |
| 70°-80° | 5637.7 | 12.2 |
| 80°-90° | 768.6 | 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° | 46242.5 | 100.0 |
| 0°-180° | 46242.5 | 100.0 |



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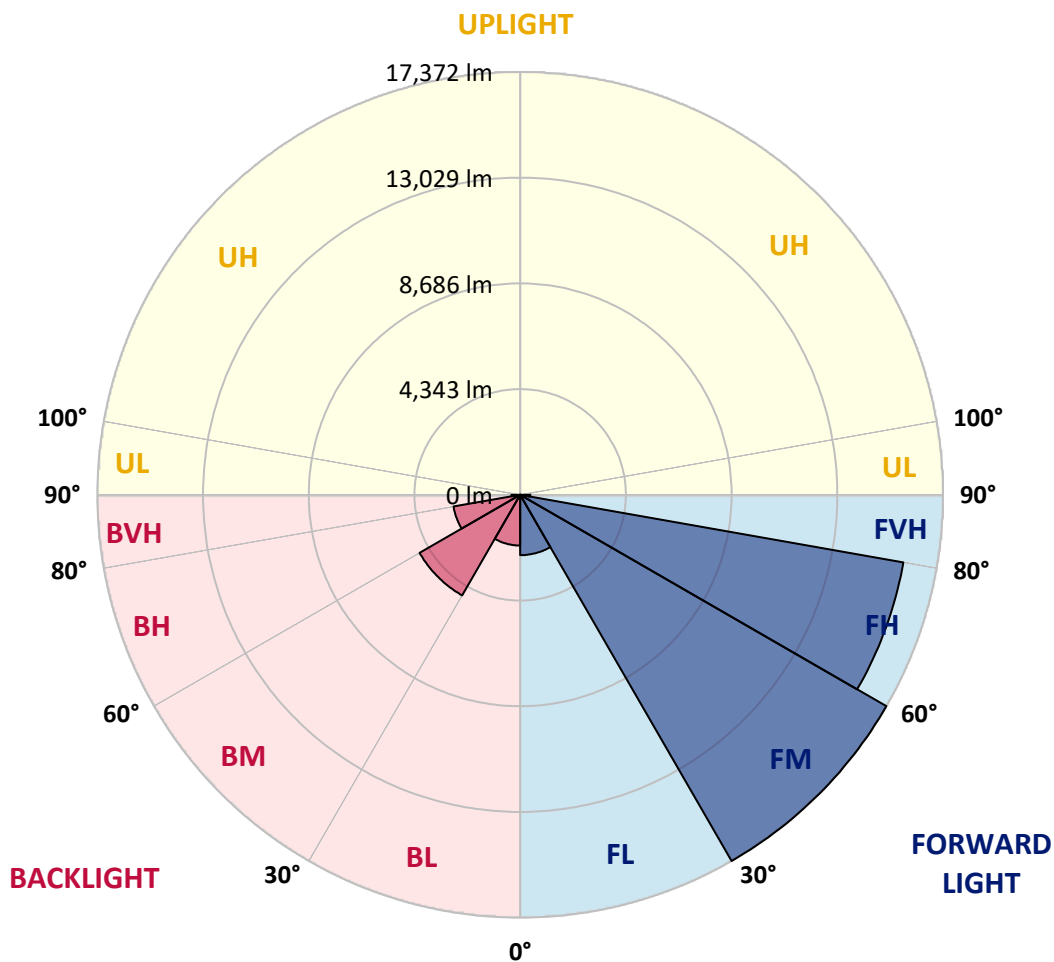
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2478.7 | 5.4 | | | |
| FM | (30°-60°) | 17372.1 | 37.6 | | | |
| FH | (60°-80°) | 15986.3 | 34.6 | | | G5 |
| FVH | (80°-90°) | 416.1 | 0.9 | | | G3/500 |
| BL | (0°-30°) | 2086.0 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 4770.8 | 10.3 | B3/5000 | | |
| BH | (60°-80°) | 2780.0 | 6.0 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 352.6 | 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° | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 |
| 2.5° | 5653.0 | 5655.3 | 5659.9 | 5677.6 | 5693.3 | 5688.7 | 5691.0 | 5682.0 | 5679.9 | 5666.5 | 5679.9 |
| 5° | 5581.6 | 5588.3 | 5590.5 | 5619.5 | 5637.5 | 5642.0 | 5635.2 | 5624.0 | 5610.6 | 5597.2 | 5603.9 |
| 7.5° | 5418.5 | 5436.5 | 5438.7 | 5478.9 | 5507.9 | 5545.9 | 5548.1 | 5550.3 | 5543.6 | 5534.6 | 5548.1 |
| 10° | 5315.8 | 5320.3 | 5318.1 | 5347.2 | 5369.3 | 5411.8 | 5436.5 | 5478.9 | 5496.6 | 5501.2 | 5510.2 |
| 12.5° | 5309.2 | 5304.6 | 5297.9 | 5297.9 | 5291.2 | 5309.2 | 5353.8 | 5414.1 | 5456.6 | 5469.9 | 5481.1 |
| 15° | 5380.6 | 5378.3 | 5356.1 | 5322.5 | 5280.1 | 5266.7 | 5304.6 | 5371.7 | 5427.5 | 5456.6 | 5467.7 |
| 17.5° | 5541.4 | 5528.0 | 5492.2 | 5416.3 | 5324.8 | 5289.0 | 5293.4 | 5349.2 | 5414.1 | 5452.1 | 5463.2 |
| 20° | 5836.2 | 5836.2 | 5760.3 | 5617.3 | 5454.2 | 5369.3 | 5329.3 | 5362.7 | 5425.3 | 5476.6 | 5492.2 |
| 22.5° | 6345.4 | 6349.8 | 6222.6 | 5988.1 | 5713.4 | 5532.4 | 5432.0 | 5425.3 | 5499.0 | 5557.1 | 5574.9 |
| 25° | 7066.8 | 7049.0 | 6870.3 | 6535.3 | 6117.6 | 5818.3 | 5644.1 | 5603.9 | 5666.5 | 5731.2 | 5753.6 |
| 27.5° | 7906.7 | 7841.9 | 7629.8 | 7225.4 | 6684.9 | 6247.3 | 5979.2 | 5914.4 | 5974.6 | 6048.4 | 6070.7 |
| 30° | 8737.5 | 8670.6 | 8418.1 | 7976.0 | 7375.2 | 6821.2 | 6437.1 | 6332.1 | 6417.0 | 6522.0 | 6535.3 |
| 32.5° | 9568.4 | 9568.4 | 9286.9 | 8771.1 | 8116.6 | 7506.9 | 7046.8 | 6921.7 | 7062.5 | 7189.8 | 7218.8 |
| 35° | 10562.5 | 10566.9 | 10294.3 | 9673.4 | 8969.8 | 8324.4 | 7817.4 | 7725.9 | 7938.0 | 8027.3 | 8096.6 |
| 37.5° | 11784.1 | 11808.7 | 11458.1 | 10707.5 | 9937.1 | 9258.0 | 8654.9 | 8529.9 | 8742.0 | 8985.4 | 9208.9 |
| 40° | 13104.1 | 13135.3 | 12748.9 | 11824.3 | 11053.7 | 10343.4 | 9691.3 | 9465.7 | 9818.7 | 10283.2 | 10571.3 |
| 42.5° | 14363.9 | 14524.7 | 14151.7 | 13200.1 | 12371.5 | 11636.7 | 10975.6 | 10647.3 | 11089.4 | 11790.9 | 12041.1 |
| 45° | 16184.1 | 16300.4 | 15650.4 | 14788.2 | 14008.7 | 13186.8 | 12311.2 | 11965.1 | 12583.6 | 13468.2 | 13519.6 |
| 47.5° | 17396.9 | 17309.9 | 16979.4 | 16443.3 | 15949.6 | 15181.4 | 13863.5 | 13483.7 | 14305.8 | 15346.6 | 15058.5 |
| 50° | 18042.5 | 18069.2 | 18024.6 | 18055.8 | 18073.7 | 17591.2 | 15766.5 | 15246.0 | 16226.7 | 17484.2 | 16820.8 |
| 52.5° | 18645.5 | 18466.8 | 18614.3 | 19346.8 | 20231.3 | 20052.7 | 17836.9 | 17294.2 | 18285.9 | 19856.0 | 18683.5 |
| 55° | 18632.1 | 18359.6 | 18839.9 | 20133.1 | 22051.7 | 22257.1 | 20162.1 | 19536.7 | 20463.6 | 22400.0 | 20658.0 |
| 57.5° | 17973.2 | 17986.7 | 18725.9 | 20419.0 | 23320.3 | 24329.9 | 22860.2 | 21922.1 | 22773.1 | 24977.6 | 22460.4 |
| 60° | 17066.4 | 17189.2 | 18254.6 | 20372.0 | 24336.5 | 26029.6 | 26170.3 | 24492.8 | 25035.7 | 27320.5 | 23952.3 |
| 62.5° | 15603.5 | 15732.9 | 17202.6 | 19885.2 | 24182.5 | 27666.8 | 29163.2 | 27410.0 | 27401.0 | 28741.1 | 24390.2 |
| 65° | 13296.3 | 13258.3 | 14801.6 | 18064.7 | 22889.3 | 28877.4 | 32136.1 | 29931.5 | 29183.2 | 28763.4 | 23510.1 |
| 67.5° | 9805.2 | 9635.5 | 10960.0 | 13758.5 | 19025.3 | 27521.6 | 33884.8 | 31244.8 | 29790.9 | 26871.5 | 20820.9 |
| 70° | 5088.0 | 4918.2 | 5990.3 | 8034.0 | 12512.2 | 21479.9 | 31948.4 | 30565.9 | 28448.6 | 22525.2 | 16311.5 |
| 72.5° | 2175.4 | 2146.4 | 2582.0 | 3524.5 | 6052.9 | 12389.5 | 25051.4 | 26456.3 | 24410.3 | 16782.8 | 11214.6 |
| 75° | 1463.0 | 1454.0 | 1617.0 | 1920.8 | 2722.7 | 5027.6 | 15677.2 | 18779.5 | 17859.4 | 10406.1 | 6307.4 |
| 77.5° | 1148.0 | 1136.8 | 1233.0 | 1380.3 | 1764.5 | 1983.4 | 6957.5 | 10082.1 | 9331.8 | 4529.7 | 2760.6 |
| 80° | 897.9 | 889.0 | 949.2 | 1029.6 | 1268.6 | 1250.8 | 2289.4 | 4011.4 | 3104.6 | 1735.4 | 1342.3 |
| 82.5° | 708.0 | 708.0 | 757.2 | 759.3 | 900.1 | 853.2 | 1194.9 | 1766.7 | 1550.0 | 1011.9 | 821.9 |
| 85° | 647.7 | 647.7 | 699.2 | 567.3 | 587.4 | 538.3 | 741.6 | 1047.6 | 982.7 | 415.5 | 357.3 |
| 87.5° | 326.1 | 317.1 | 587.4 | 502.5 | 319.3 | 285.9 | 361.8 | 507.1 | 545.0 | 230.1 | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 | 5702.3 |
| 2.5° | 5675.4 | 5673.2 | 5677.6 | 5679.9 | 5697.7 | 5722.4 | 5733.5 | 5749.2 | 5758.0 | 5753.6 |
| 5° | 5608.4 | 5612.9 | 5630.8 | 5644.1 | 5675.4 | 5715.6 | 5738.0 | 5755.8 | 5771.4 | 5764.8 |
| 7.5° | 5552.6 | 5563.7 | 5590.5 | 5601.7 | 5619.5 | 5630.8 | 5628.5 | 5635.2 | 5648.6 | 5632.9 |
| 10° | 5521.3 | 5534.6 | 5554.8 | 5539.2 | 5496.6 | 5436.5 | 5380.6 | 5351.6 | 5360.5 | 5349.2 |
| 12.5° | 5490.0 | 5507.9 | 5492.2 | 5418.5 | 5300.2 | 5221.9 | 5179.5 | 5183.9 | 5204.2 | 5208.6 |
| 15° | 5472.1 | 5478.9 | 5411.8 | 5273.4 | 5152.8 | 5141.5 | 5163.9 | 5159.4 | 5161.8 | 5161.8 |
| 17.5° | 5472.1 | 5454.2 | 5329.3 | 5190.8 | 5139.4 | 5119.3 | 5050.0 | 4962.9 | 4925.0 | 4911.6 |
| 20° | 5501.2 | 5454.2 | 5302.3 | 5210.8 | 5099.1 | 4927.2 | 4743.9 | 4583.2 | 4511.7 | 4491.6 |
| 22.5° | 5588.3 | 5507.9 | 5378.3 | 5219.7 | 4902.6 | 4614.5 | 4324.1 | 4132.1 | 4002.5 | 3980.1 |
| 25° | 5764.8 | 5675.4 | 5528.0 | 5101.4 | 4589.9 | 4178.9 | 3848.3 | 3634.0 | 3504.4 | 3486.5 |
| 27.5° | 6073.0 | 6015.0 | 5608.4 | 4840.1 | 4174.5 | 3734.4 | 3428.6 | 3263.3 | 3167.2 | 3160.4 |
| 30° | 6537.5 | 6508.5 | 5568.2 | 4453.6 | 3663.0 | 3303.3 | 3155.9 | 3059.9 | 2988.5 | 2986.2 |
| 32.5° | 7279.1 | 7044.6 | 5436.5 | 3982.4 | 3196.2 | 2997.5 | 2937.1 | 2879.0 | 2823.3 | 2823.3 |
| 35° | 8232.7 | 7477.9 | 5186.3 | 3477.6 | 2912.6 | 2827.7 | 2751.7 | 2660.2 | 2586.4 | 2582.0 |
| 37.5° | 9354.1 | 7745.8 | 4737.3 | 3071.1 | 2778.5 | 2713.7 | 2602.1 | 2465.8 | 2336.3 | 2313.9 |
| 40° | 10486.5 | 7826.4 | 4105.3 | 2820.9 | 2693.7 | 2599.9 | 2463.6 | 2302.7 | 2177.8 | 2171.1 |
| 42.5° | 11525.1 | 7672.2 | 3435.2 | 2648.9 | 2608.8 | 2483.6 | 2340.8 | 2197.9 | 2099.5 | 2097.4 |
| 45° | 12396.2 | 7272.4 | 2872.3 | 2485.9 | 2519.4 | 2378.7 | 2251.4 | 2135.2 | 2059.4 | 2043.6 |
| 47.5° | 13215.9 | 6707.3 | 2476.9 | 2313.9 | 2430.1 | 2320.6 | 2213.5 | 2104.0 | 2030.3 | 2019.1 |
| 50° | 14167.3 | 6097.5 | 2199.9 | 2146.4 | 2351.9 | 2300.5 | 2244.8 | 2130.8 | 2007.9 | 1994.5 |
| 52.5° | 15319.8 | 5570.4 | 1983.4 | 1999.0 | 2291.5 | 2327.4 | 2325.2 | 2206.7 | 1992.4 | 1974.5 |
| 55° | 16606.2 | 4985.2 | 1820.3 | 1878.4 | 2267.1 | 2376.5 | 2345.3 | 2278.2 | 2005.7 | 1978.8 |
| 57.5° | 17872.7 | 4301.8 | 1706.4 | 1786.8 | 2231.3 | 2372.1 | 2249.1 | 2153.1 | 2036.9 | 1999.0 |
| 60° | 18821.9 | 3383.7 | 1619.4 | 1706.4 | 2153.1 | 2298.4 | 2144.2 | 2016.9 | 2030.3 | 2001.2 |
| 62.5° | 18884.4 | 2615.4 | 1514.4 | 1637.3 | 2034.8 | 2224.7 | 2074.9 | 1956.6 | 2059.4 | 2032.5 |
| 65° | 17774.5 | 1976.7 | 1413.8 | 1554.5 | 1907.5 | 2177.8 | 2007.9 | 1923.1 | 2119.6 | 2090.5 |
| 67.5° | 14964.7 | 1590.3 | 1329.0 | 1469.6 | 1780.1 | 2079.4 | 1947.6 | 1891.8 | 2173.2 | 2121.8 |
| 70° | 10803.6 | 1355.7 | 1246.3 | 1367.0 | 1666.3 | 1967.7 | 1894.0 | 1836.0 | 2028.1 | 1947.6 |
| 72.5° | 6651.5 | 1174.9 | 1152.4 | 1230.7 | 1579.1 | 1851.5 | 1813.6 | 1730.9 | 1827.1 | 1762.2 |
| 75° | 3321.3 | 1018.5 | 1047.6 | 1096.7 | 1456.2 | 1719.8 | 1679.7 | 1596.9 | 1610.4 | 1596.9 |
| 77.5° | 1590.3 | 871.0 | 924.6 | 962.7 | 1297.7 | 1570.1 | 1527.7 | 1442.9 | 1427.2 | 1429.5 |
| 80° | 1007.3 | 728.2 | 779.5 | 806.3 | 1159.3 | 1396.0 | 1353.6 | 1268.6 | 1447.3 | 1342.3 |
| 82.5° | 629.8 | 592.0 | 605.3 | 654.4 | 1009.5 | 1215.0 | 1159.3 | 1083.3 | 1304.3 | 1032.0 |
| 85° | 348.5 | 413.2 | 431.0 | 473.4 | 777.3 | 1016.3 | 960.4 | 864.3 | 775.1 | 761.7 |
| 87.5° | 207.7 | 245.6 | 252.5 | 283.7 | 522.6 | 734.9 | 650.0 | 616.4 | 511.5 | 509.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)