

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: P318410

Luminaire Tested: **GAN-SA6C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42313 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

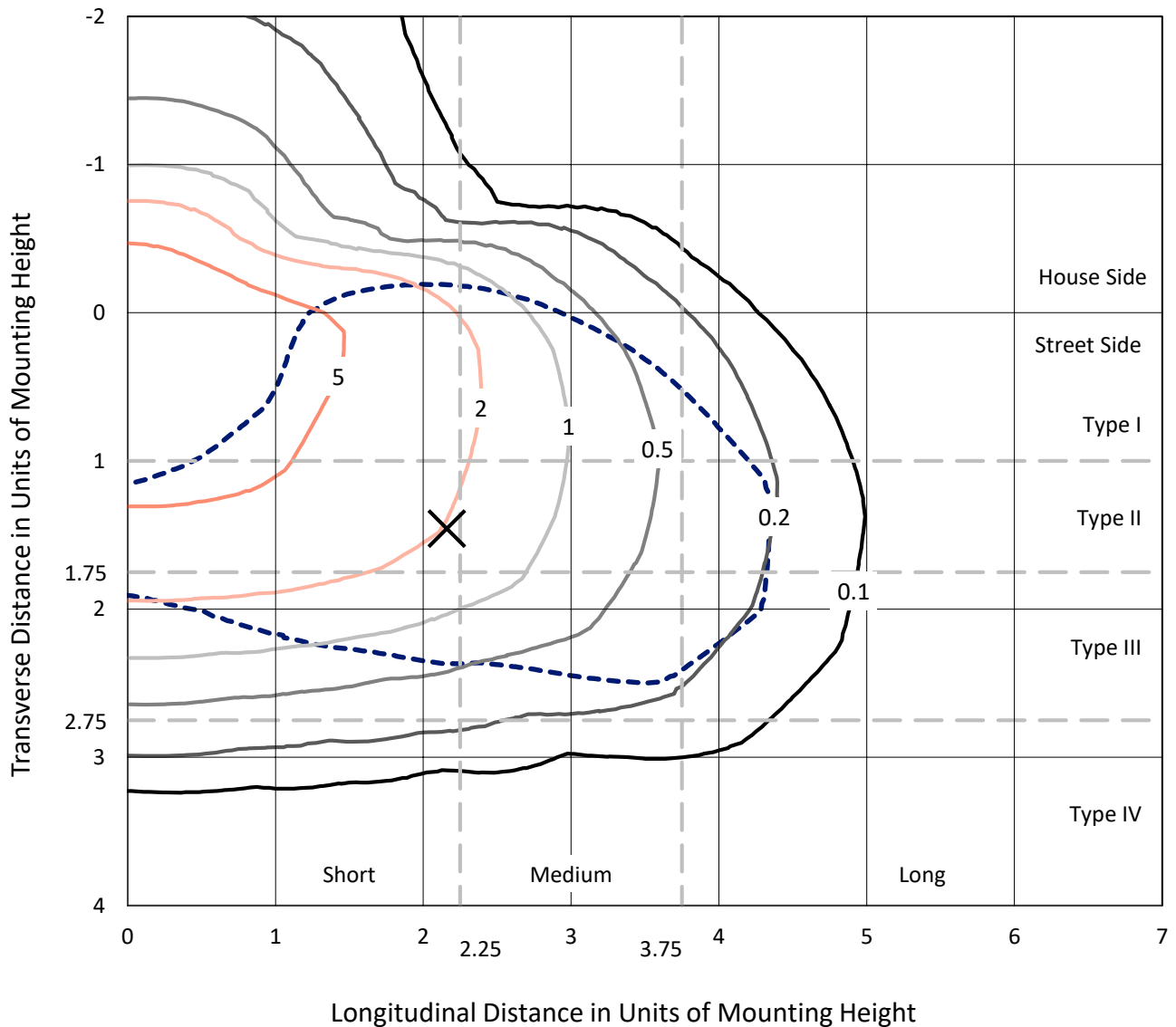
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

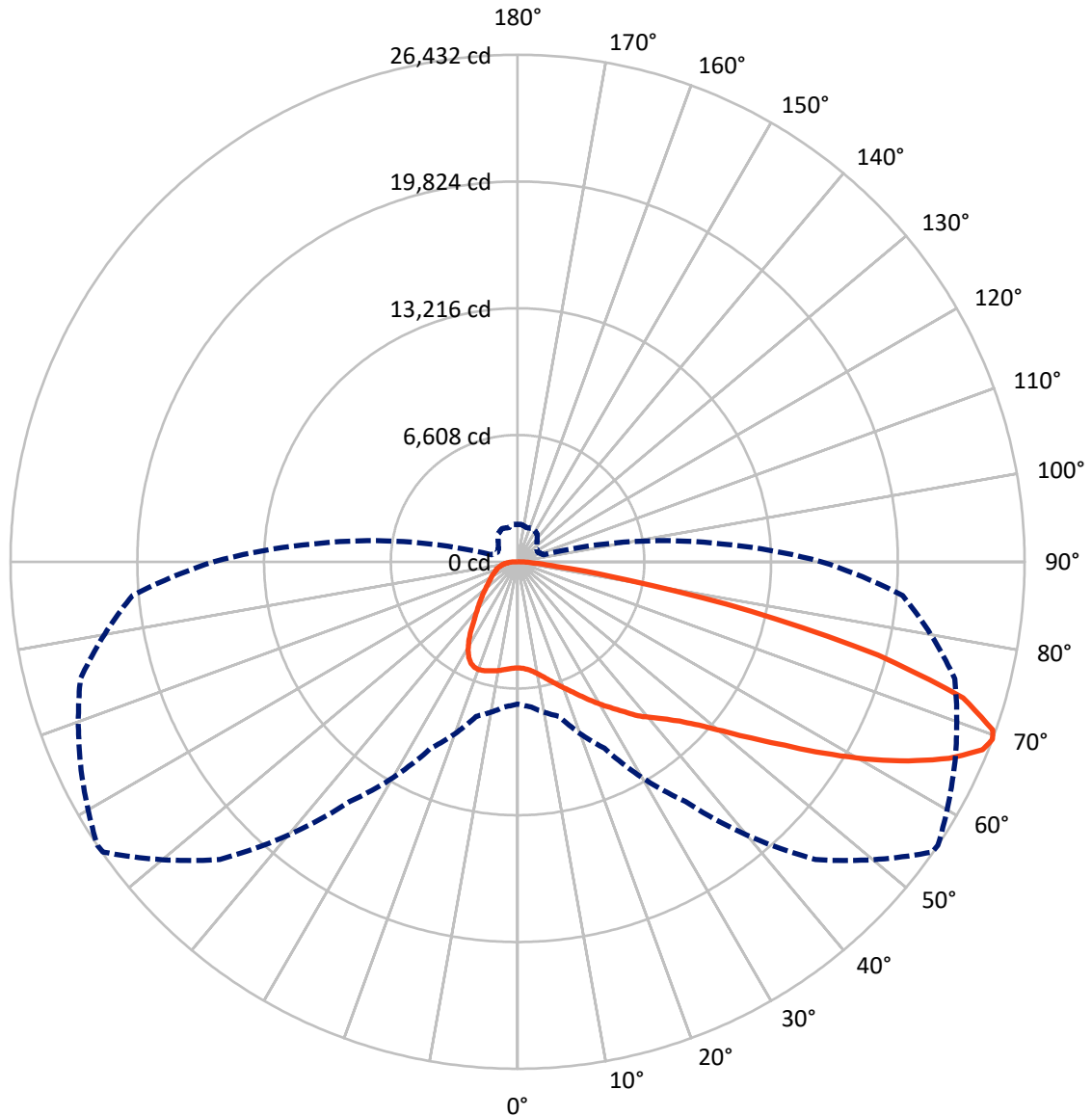
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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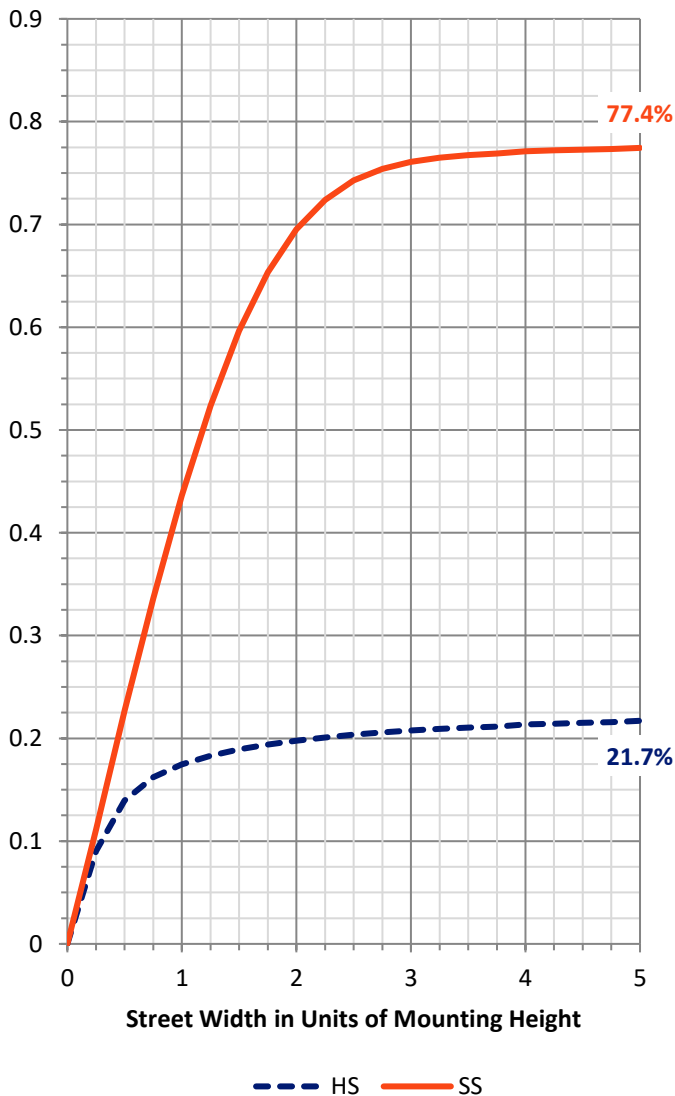
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9423.0 | 0.0 | 9423.0 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 32890.0 | 0.0 | 32890.0 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 42313.0 | 0.0 | 42313.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 543.3 | 1.3 |
| 10°-20° | 1747.1 | 4.1 |
| 20°-30° | 3049.7 | 7.2 |
| 30°-40° | 4380.8 | 10.4 |
| 40°-50° | 6062.8 | 14.3 |
| 50°-60° | 8882.8 | 21.0 |
| 60°-70° | 10829.8 | 25.6 |
| 70°-80° | 5987.4 | 14.2 |
| 80°-90° | 829.3 | 2.0 |
| 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° | 42313.0 | 100.0 |
| 0°-180° | 42313.0 | 100.0 |



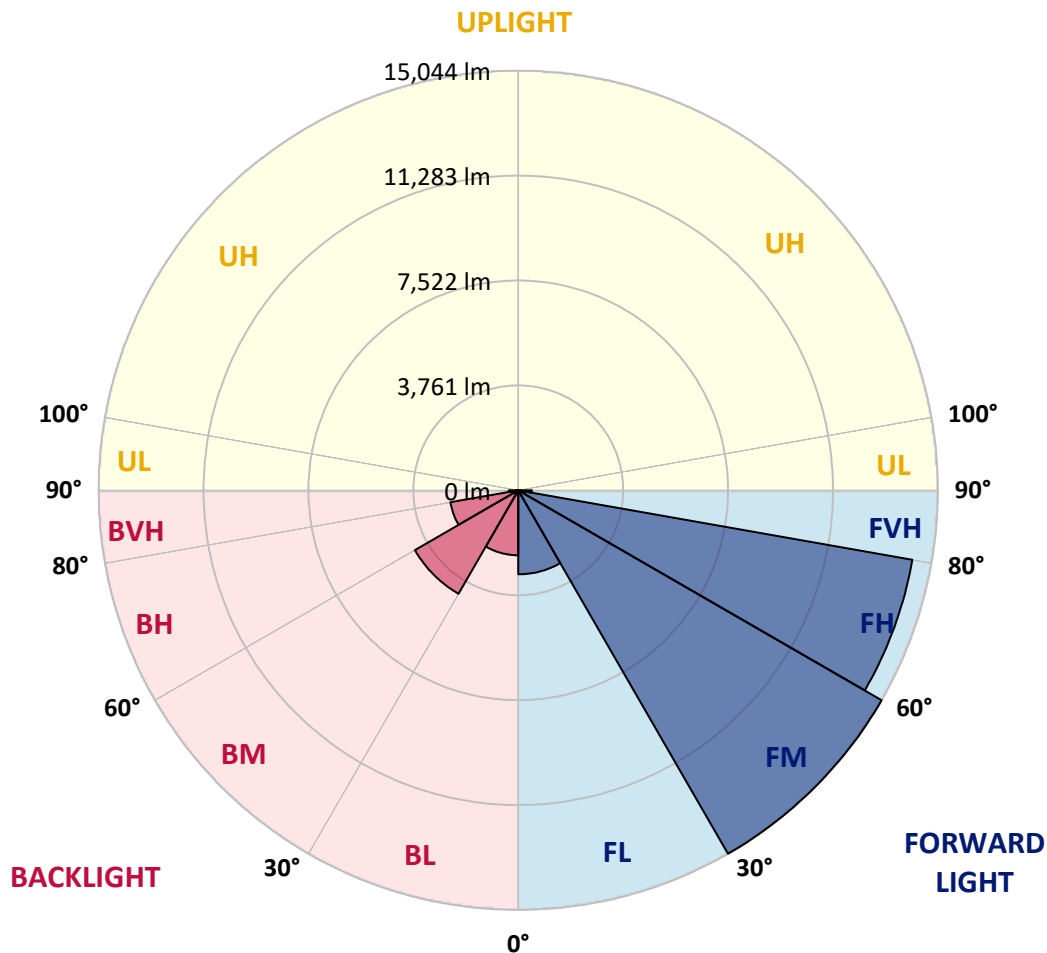
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3011.4 | 7.1 | | | |
| FM (30°-60°) | 15043.8 | 35.6 | | | |
| FH (60°-80°) | 14346.2 | 33.9 | | | G5 |
| FVH (80°-90°) | 488.5 | 1.2 | | | G3/500 |
| BL (0°-30°) | 2328.6 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 4282.6 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2471.0 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 340.8 | 0.8 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 |
| 2.5° | 5566.8 | 5572.6 | 5568.2 | 5579.9 | 5566.8 | 5575.5 | 5568.2 | 5568.2 | 5563.9 | 5550.7 | 5536.2 |
| 5° | 5654.2 | 5665.9 | 5658.6 | 5670.3 | 5654.2 | 5657.1 | 5644.0 | 5644.0 | 5630.9 | 5603.2 | 5574.1 |
| 7.5° | 5791.2 | 5804.4 | 5798.5 | 5810.2 | 5788.3 | 5788.3 | 5770.8 | 5769.4 | 5743.1 | 5698.0 | 5664.4 |
| 10° | 5954.5 | 5972.0 | 5966.2 | 5983.7 | 5966.2 | 5972.0 | 5954.5 | 5954.5 | 5919.5 | 5855.4 | 5813.1 |
| 12.5° | 6192.1 | 6214.0 | 6197.9 | 6196.5 | 6189.2 | 6200.8 | 6186.3 | 6183.4 | 6151.3 | 6063.8 | 6005.5 |
| 15° | 6509.9 | 6533.2 | 6499.7 | 6496.8 | 6455.9 | 6451.6 | 6451.6 | 6447.2 | 6426.8 | 6321.8 | 6225.6 |
| 17.5° | 6875.7 | 6883.0 | 6853.9 | 6807.2 | 6754.8 | 6721.2 | 6716.9 | 6728.5 | 6728.5 | 6606.1 | 6453.0 |
| 20° | 7234.3 | 7247.4 | 7224.1 | 7171.6 | 7104.6 | 7055.0 | 7020.1 | 7043.4 | 7041.9 | 6896.1 | 6679.0 |
| 22.5° | 7625.0 | 7655.6 | 7620.6 | 7553.6 | 7474.8 | 7419.4 | 7358.2 | 7378.6 | 7380.1 | 7200.8 | 6900.5 |
| 25° | 8130.8 | 8103.1 | 8081.2 | 7986.5 | 7874.2 | 7817.4 | 7760.5 | 7780.9 | 7775.1 | 7528.8 | 7129.4 |
| 27.5° | 8578.3 | 8584.1 | 8555.0 | 8454.4 | 8324.6 | 8199.3 | 8196.4 | 8209.5 | 8187.6 | 7869.9 | 7345.1 |
| 30° | 9098.7 | 9101.6 | 9060.8 | 8970.4 | 8829.0 | 8667.2 | 8629.3 | 8651.2 | 8604.5 | 8193.5 | 7572.5 |
| 32.5° | 9616.1 | 9630.7 | 9585.5 | 9476.2 | 9362.5 | 9165.7 | 9089.9 | 9104.5 | 8987.9 | 8524.3 | 7807.2 |
| 35° | 10069.5 | 10089.9 | 10075.3 | 10002.4 | 9878.5 | 9709.4 | 9619.0 | 9610.3 | 9466.0 | 8929.6 | 8117.7 |
| 37.5° | 10531.5 | 10550.5 | 10534.4 | 10473.2 | 10423.7 | 10244.4 | 10196.3 | 10196.3 | 9945.6 | 9343.5 | 8512.7 |
| 40° | 11006.7 | 11035.9 | 11016.9 | 10932.4 | 10890.1 | 10808.5 | 10693.3 | 10665.6 | 10394.5 | 9840.6 | 9157.0 |
| 42.5° | 11448.4 | 11486.3 | 11562.1 | 11512.5 | 11426.5 | 11438.2 | 11206.4 | 11191.8 | 10993.6 | 10575.3 | 9966.0 |
| 45° | 12075.2 | 12130.6 | 12258.8 | 12221.0 | 12203.5 | 12139.3 | 11863.8 | 11850.7 | 11774.9 | 11563.6 | 10970.3 |
| 47.5° | 12758.8 | 12834.6 | 13066.4 | 13073.7 | 13261.7 | 13140.7 | 12766.1 | 12720.9 | 12738.4 | 12747.2 | 12196.2 |
| 50° | 13388.5 | 13471.6 | 13852.1 | 14031.4 | 14474.5 | 14500.7 | 13901.6 | 13860.8 | 13929.3 | 14130.5 | 13624.7 |
| 52.5° | 13891.4 | 13996.4 | 14471.6 | 15025.5 | 15784.9 | 16000.6 | 15299.5 | 15268.9 | 15319.9 | 15666.8 | 15239.7 |
| 55° | 14260.2 | 14373.9 | 14891.4 | 15900.1 | 17112.8 | 17493.3 | 16908.8 | 16879.6 | 16911.7 | 17353.3 | 16996.2 |
| 57.5° | 14346.2 | 14373.9 | 15124.6 | 16489.0 | 18233.8 | 19147.7 | 18878.0 | 18819.7 | 18662.3 | 19047.1 | 18934.9 |
| 60° | 13942.4 | 14053.2 | 14932.2 | 16695.9 | 19101.1 | 20778.8 | 20936.2 | 20863.4 | 20421.7 | 20736.6 | 20646.2 |
| 62.5° | 13123.2 | 13321.5 | 14213.6 | 16381.1 | 19440.7 | 22111.1 | 22955.1 | 22867.6 | 22106.7 | 22310.8 | 21876.4 |
| 65° | 11785.1 | 11869.7 | 12806.9 | 15295.1 | 19009.2 | 22963.8 | 24755.3 | 24711.6 | 23753.9 | 23434.7 | 22103.8 |
| 67.5° | 9391.6 | 9550.5 | 10346.4 | 13025.6 | 17244.0 | 22863.3 | 26147.4 | 26143.0 | 24829.6 | 23851.6 | 21297.7 |
| 69° | 7419.4 | 7584.2 | 8342.1 | 10729.8 | 15258.7 | 21943.5 | 26380.6 | 26431.6 | 25132.8 | 23597.9 | 20146.2 |
| 70° | 5915.2 | 6106.1 | 6626.5 | 9037.4 | 13496.4 | 20730.7 | 26186.7 | 26278.5 | 25074.5 | 23179.6 | 19083.6 |
| 72.5° | 2517.4 | 2671.9 | 3042.1 | 4658.7 | 8225.5 | 15480.3 | 23943.4 | 24290.3 | 23723.3 | 21214.7 | 15771.8 |
| 75° | 1099.1 | 1147.2 | 1314.8 | 1899.3 | 3651.4 | 8425.2 | 18757.1 | 19398.4 | 20284.7 | 17932.0 | 11748.7 |
| 77.5° | 804.6 | 825.0 | 916.9 | 1115.1 | 1638.4 | 3182.1 | 12062.1 | 12435.2 | 14629.0 | 13048.9 | 7206.6 |
| 80° | 622.4 | 637.0 | 708.4 | 819.2 | 1069.9 | 1287.1 | 5501.2 | 5821.9 | 8225.5 | 6702.3 | 3001.3 |
| 82.5° | 495.6 | 505.8 | 555.4 | 603.5 | 739.0 | 779.8 | 1826.4 | 2026.1 | 3036.3 | 1851.2 | 794.4 |
| 85° | 460.6 | 472.3 | 489.8 | 440.2 | 473.7 | 457.7 | 790.0 | 826.5 | 916.9 | 727.4 | 332.3 |
| 87.5° | 208.4 | 246.3 | 485.4 | 342.5 | 252.2 | 201.2 | 323.6 | 338.2 | 380.4 | 381.9 | 147.2 |
| 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° | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 | 5531.8 |
| 2.5° | 5544.9 | 5540.5 | 5547.8 | 5530.3 | 5552.2 | 5550.7 | 5543.4 | 5546.4 | 5560.9 | 5559.5 | 5560.9 |
| 5° | 5578.4 | 5575.5 | 5584.3 | 5571.1 | 5597.4 | 5606.1 | 5607.6 | 5620.7 | 5636.7 | 5641.1 | 5641.1 |
| 7.5° | 5663.0 | 5663.0 | 5667.3 | 5649.9 | 5667.3 | 5665.9 | 5658.6 | 5671.7 | 5687.8 | 5689.2 | 5687.8 |
| 10° | 5808.7 | 5810.2 | 5802.9 | 5757.7 | 5743.1 | 5703.8 | 5667.3 | 5668.8 | 5689.2 | 5705.2 | 5709.6 |
| 12.5° | 5992.4 | 5986.6 | 5954.5 | 5871.4 | 5810.2 | 5730.0 | 5692.1 | 5690.7 | 5711.1 | 5724.2 | 5728.6 |
| 15° | 6202.3 | 6186.3 | 6103.2 | 5967.6 | 5859.8 | 5781.0 | 5719.8 | 5705.2 | 5693.6 | 5679.0 | 5680.5 |
| 17.5° | 6400.5 | 6364.1 | 6225.6 | 6037.6 | 5923.9 | 5818.9 | 5700.9 | 5606.1 | 5540.5 | 5502.6 | 5491.0 |
| 20° | 6601.7 | 6530.3 | 6330.6 | 6103.2 | 5958.9 | 5767.9 | 5540.5 | 5348.1 | 5228.6 | 5173.2 | 5163.0 |
| 22.5° | 6785.4 | 6670.2 | 6428.2 | 6171.7 | 5931.2 | 5595.9 | 5238.8 | 4958.9 | 4792.8 | 4718.4 | 4724.2 |
| 25° | 6964.7 | 6804.3 | 6530.3 | 6219.8 | 5791.2 | 5292.7 | 4819.0 | 4475.0 | 4282.6 | 4199.5 | 4196.6 |
| 27.5° | 7122.1 | 6939.9 | 6641.1 | 6180.4 | 5530.3 | 4861.3 | 4321.9 | 3986.7 | 3826.3 | 3754.9 | 3743.2 |
| 30° | 7302.8 | 7110.4 | 6788.3 | 6030.3 | 5148.4 | 4362.8 | 3836.5 | 3600.4 | 3486.7 | 3415.3 | 3402.2 |
| 32.5° | 7522.9 | 7342.2 | 6909.3 | 5757.7 | 4660.1 | 3842.4 | 3457.5 | 3292.8 | 3189.3 | 3109.2 | 3094.6 |
| 35° | 7843.6 | 7648.3 | 6939.9 | 5367.1 | 4123.7 | 3431.3 | 3179.1 | 3010.1 | 2870.1 | 2766.6 | 2756.4 |
| 37.5° | 8245.9 | 8031.7 | 6869.9 | 4861.3 | 3603.3 | 3164.6 | 2947.4 | 2738.9 | 2556.7 | 2411.0 | 2387.6 |
| 40° | 8826.1 | 8502.5 | 6676.0 | 4278.2 | 3220.0 | 2959.0 | 2721.4 | 2483.8 | 2257.9 | 2087.4 | 2053.8 |
| 42.5° | 9522.8 | 9054.9 | 6378.7 | 3698.1 | 2938.6 | 2750.6 | 2497.0 | 2202.5 | 1986.8 | 1865.8 | 1848.3 |
| 45° | 10409.1 | 9629.2 | 5966.2 | 3190.8 | 2661.7 | 2542.1 | 2255.0 | 1983.9 | 1849.8 | 1760.8 | 1746.3 |
| 47.5° | 11420.7 | 10273.5 | 5533.2 | 2778.3 | 2427.0 | 2346.8 | 2061.1 | 1886.2 | 1779.8 | 1709.8 | 1696.7 |
| 50° | 12664.1 | 11000.9 | 5074.1 | 2440.1 | 2190.9 | 2112.1 | 1969.3 | 1832.3 | 1747.7 | 1693.8 | 1680.7 |
| 52.5° | 14066.3 | 11821.6 | 4743.2 | 2173.4 | 1995.5 | 1938.7 | 1921.2 | 1803.1 | 1734.6 | 1693.8 | 1680.7 |
| 55° | 15576.5 | 12656.8 | 4386.1 | 1948.9 | 1826.4 | 1842.5 | 1889.1 | 1806.0 | 1759.4 | 1709.8 | 1690.9 |
| 57.5° | 17088.0 | 13519.7 | 3988.1 | 1759.4 | 1692.3 | 1771.0 | 1867.3 | 1811.9 | 1772.5 | 1724.4 | 1706.9 |
| 60° | 18283.3 | 14066.3 | 3371.5 | 1600.5 | 1585.9 | 1692.3 | 1814.8 | 1768.1 | 1717.1 | 1718.6 | 1715.7 |
| 62.5° | 18841.6 | 14037.2 | 2690.8 | 1459.1 | 1479.5 | 1585.9 | 1730.2 | 1699.6 | 1657.3 | 1714.2 | 1718.6 |
| 65° | 18528.2 | 13337.5 | 2094.6 | 1330.8 | 1365.8 | 1475.1 | 1642.8 | 1666.1 | 1680.7 | 1790.0 | 1804.6 |
| 67.5° | 17213.4 | 11976.1 | 1622.4 | 1218.6 | 1262.3 | 1399.3 | 1651.5 | 1814.8 | 1833.7 | 1948.9 | 1947.4 |
| 69° | 15853.4 | 10699.2 | 1409.5 | 1160.3 | 1211.3 | 1418.3 | 1765.2 | 1909.5 | 1838.1 | 1960.5 | 1943.0 |
| 70° | 14713.5 | 9689.0 | 1295.9 | 1120.9 | 1188.0 | 1451.8 | 1841.0 | 1908.1 | 1816.2 | 1921.2 | 1892.0 |
| 72.5° | 11331.8 | 6970.5 | 1099.1 | 1048.1 | 1109.3 | 1389.1 | 1862.9 | 1865.8 | 1765.2 | 1785.6 | 1736.1 |
| 75° | 7772.2 | 4405.0 | 959.1 | 948.9 | 989.7 | 1252.1 | 1792.9 | 1782.7 | 1632.6 | 1603.4 | 1562.6 |
| 77.5° | 4285.5 | 2237.5 | 814.8 | 854.2 | 881.9 | 1109.3 | 1629.7 | 1615.1 | 1491.2 | 1430.0 | 1415.4 |
| 80° | 1653.0 | 979.5 | 688.0 | 759.4 | 776.9 | 960.6 | 1428.5 | 1415.4 | 1311.9 | 1233.2 | 1211.3 |
| 82.5° | 623.9 | 513.1 | 568.5 | 657.4 | 651.6 | 793.0 | 1209.9 | 1202.6 | 1102.0 | 986.8 | 951.8 |
| 85° | 288.6 | 307.6 | 450.4 | 542.2 | 500.0 | 587.4 | 967.9 | 981.0 | 858.6 | 721.5 | 721.5 |
| 87.5° | 122.4 | 172.0 | 319.2 | 409.6 | 336.7 | 396.5 | 709.9 | 677.8 | 622.4 | 431.5 | 405.2 |
| 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)