

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: P320012

Luminaire Tested: **GAN-SA8C-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53864 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

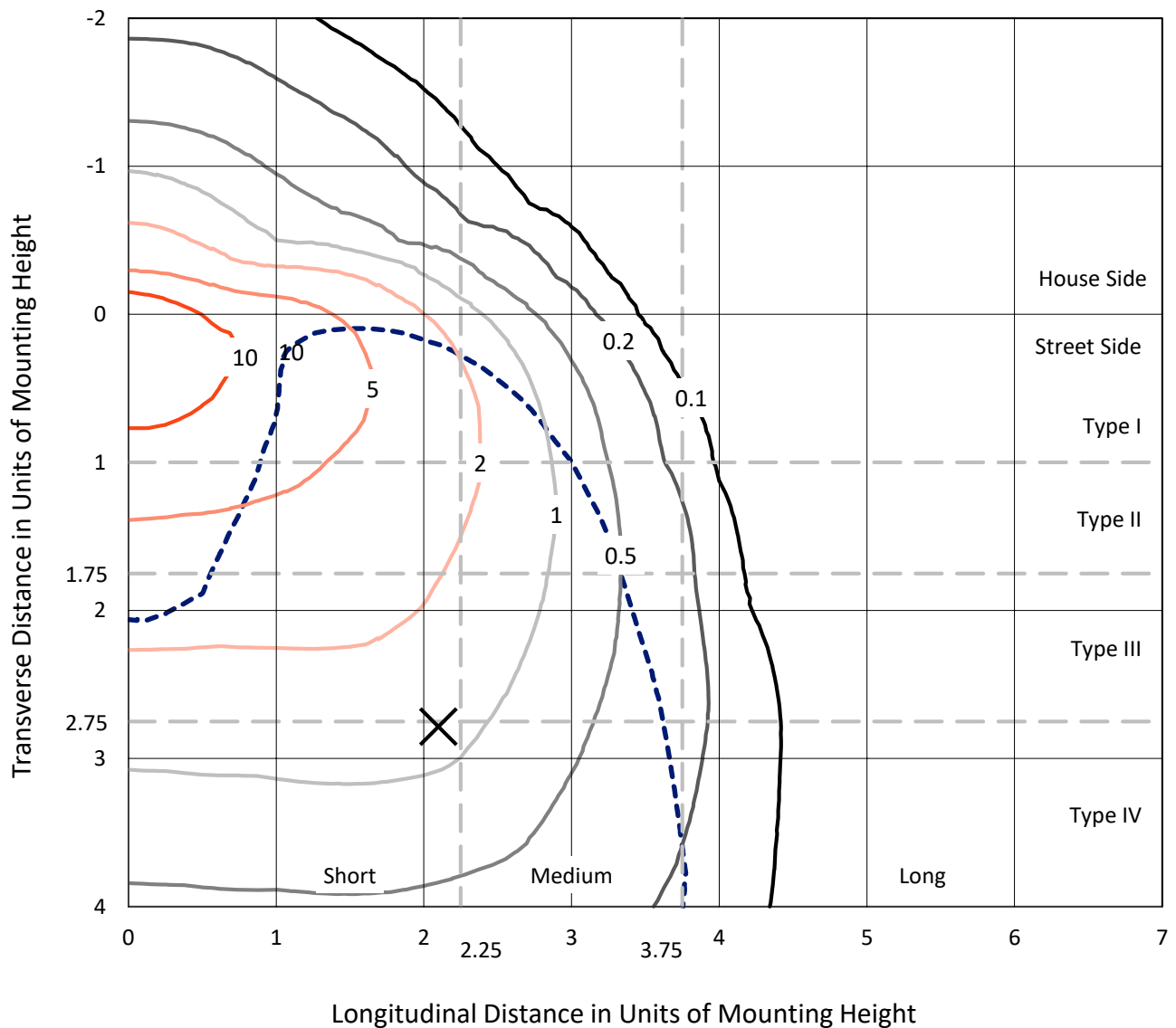
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

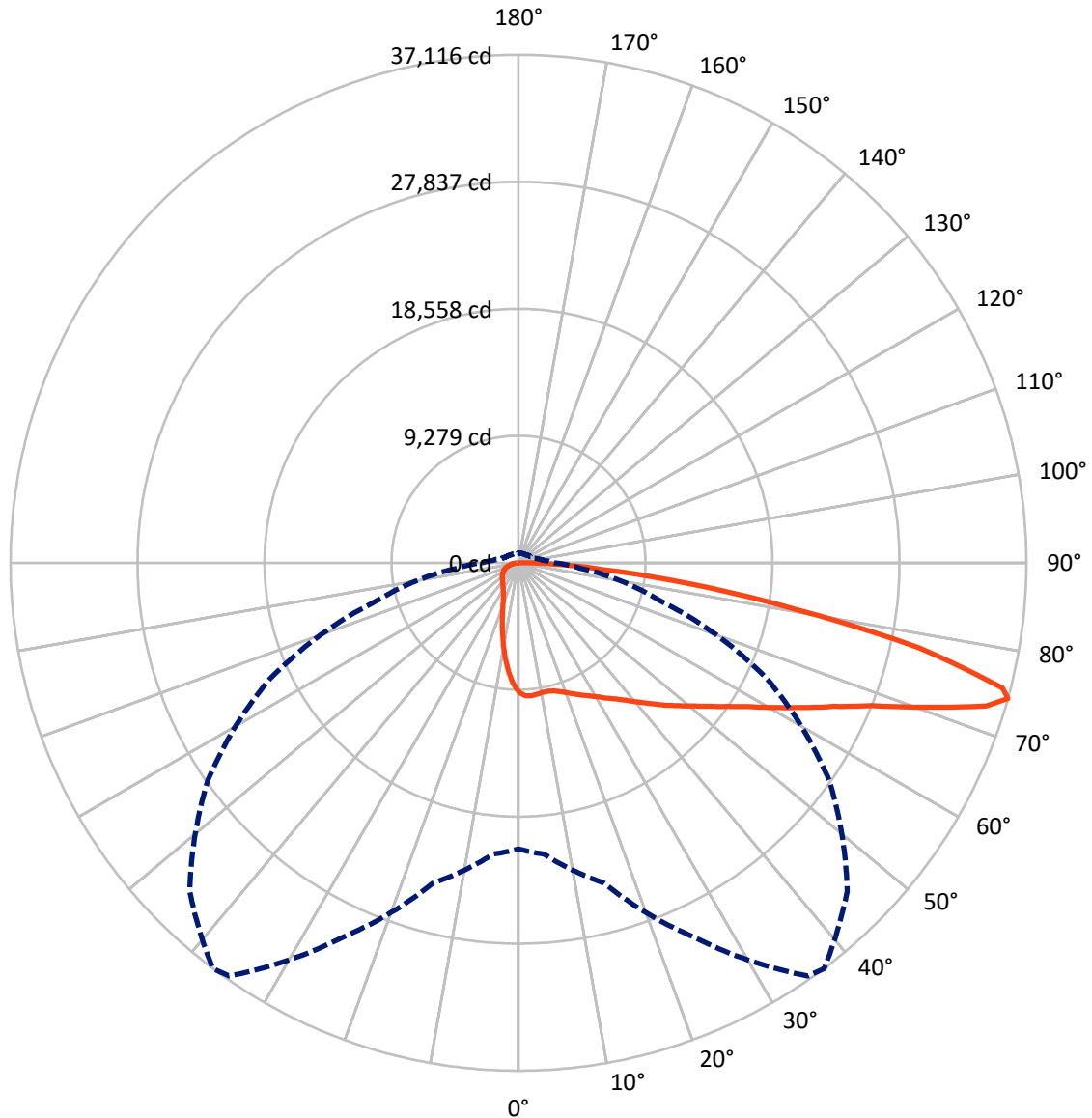
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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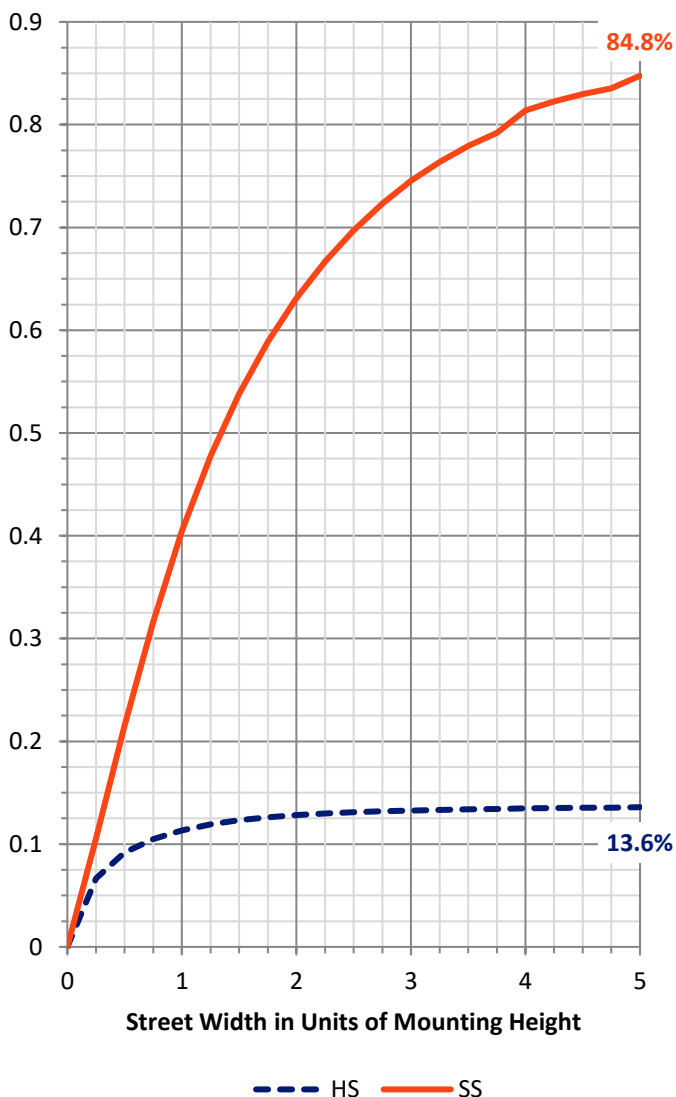
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7411.3 | 0.0 | 7411.3 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 46452.7 | 0.0 | 46452.7 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 53864.0 | 0.0 | 53864.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 835.8 | 1.6 |
| 10°-20° | 2142.3 | 4.0 |
| 20°-30° | 3300.8 | 6.1 |
| 30°-40° | 4799.9 | 8.9 |
| 40°-50° | 7064.6 | 13.1 |
| 50°-60° | 9920.9 | 18.4 |
| 60°-70° | 12556.9 | 23.3 |
| 70°-80° | 11056.8 | 20.5 |
| 80°-90° | 2186.2 | 4.1 |
| 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° | 53864.0 | 100.0 |
| 0°-180° | 53864.0 | 100.0 |

Coefficient of Utilization

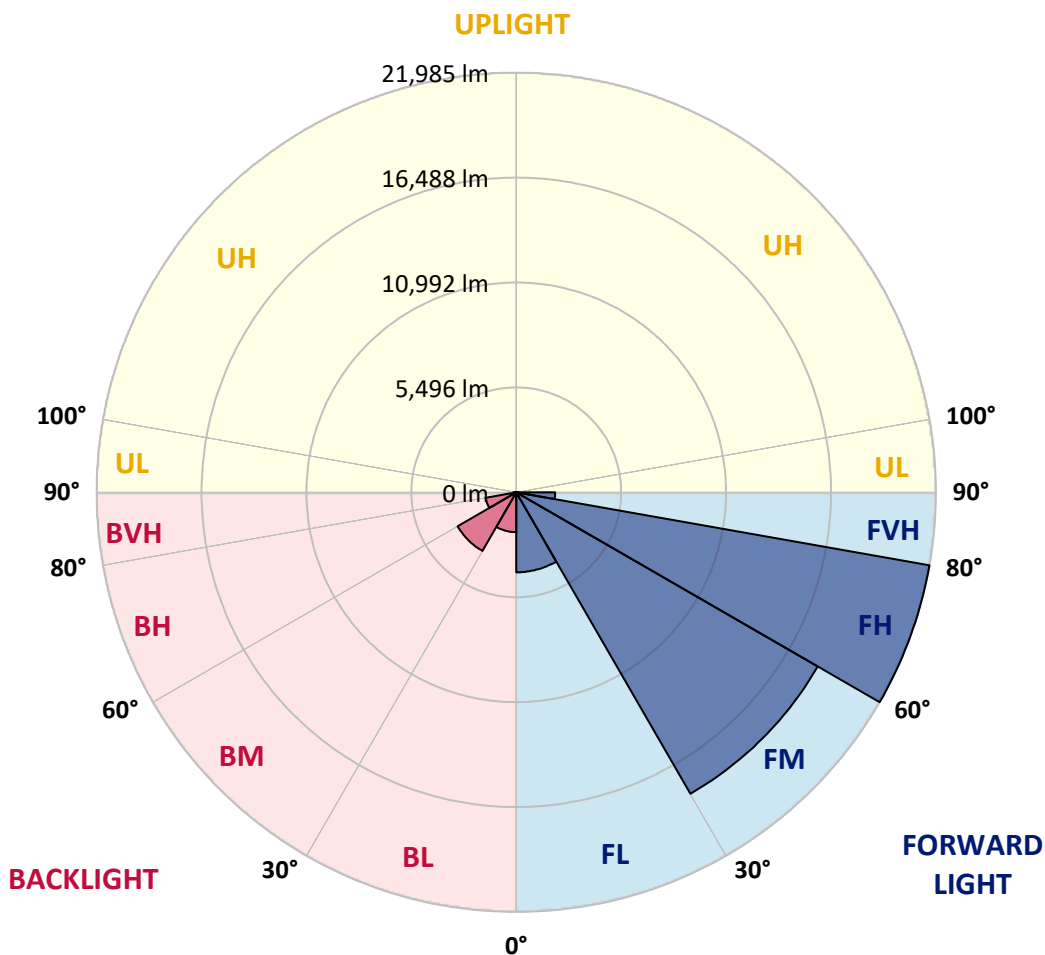


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4191.3 | 7.8 | | | |
| FM (30°-60°) | 18238.8 | 33.9 | | | |
| FH (60°-80°) | 21984.5 | 40.8 | | | G5 |
| FVH (80°-90°) | 2038.1 | 3.8 | | | G5 |
| BL (0°-30°) | 2087.6 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3546.6 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 1629.1 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 148.0 | 0.3 | | | G2/225 |
| 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° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 |
| 2.5° | 9815.1 | 9817.0 | 9815.1 | 9799.9 | 9763.8 | 9733.5 | 9708.8 | 9672.8 | 9593.1 | 9532.4 | 9441.3 |
| 5° | 9908.0 | 9896.7 | 9889.1 | 9860.6 | 9803.7 | 9769.5 | 9722.1 | 9653.8 | 9522.9 | 9401.5 | 9253.5 |
| 7.5° | 9864.4 | 9851.1 | 9834.1 | 9799.9 | 9735.4 | 9706.9 | 9640.5 | 9551.3 | 9393.9 | 9234.5 | 9022.0 |
| 10° | 9729.7 | 9725.9 | 9718.3 | 9710.7 | 9655.7 | 9632.9 | 9572.2 | 9477.3 | 9321.8 | 9128.2 | 8879.7 |
| 12.5° | 9579.8 | 9589.3 | 9619.6 | 9659.5 | 9634.8 | 9623.4 | 9585.5 | 9521.0 | 9361.6 | 9152.9 | 8853.1 |
| 15° | 9484.9 | 9511.5 | 9593.1 | 9697.4 | 9718.3 | 9714.5 | 9705.0 | 9663.3 | 9494.4 | 9262.9 | 8913.8 |
| 17.5° | 9452.7 | 9496.3 | 9651.9 | 9824.6 | 9885.3 | 9898.6 | 9902.4 | 9830.3 | 9642.4 | 9397.7 | 8976.4 |
| 20° | 9511.5 | 9566.5 | 9794.2 | 10031.4 | 10128.1 | 10135.7 | 10118.7 | 9993.4 | 9782.8 | 9513.4 | 9010.6 |
| 22.5° | 9689.9 | 9739.2 | 10023.8 | 10291.3 | 10401.4 | 10412.7 | 10361.5 | 10171.8 | 9930.8 | 9650.0 | 9058.0 |
| 25° | 10033.3 | 10094.0 | 10378.6 | 10646.1 | 10703.0 | 10704.9 | 10630.9 | 10395.7 | 10124.3 | 9841.6 | 9160.5 |
| 27.5° | 10481.1 | 10541.8 | 10797.9 | 11059.8 | 11029.4 | 11012.3 | 10911.8 | 10676.5 | 10376.7 | 10105.4 | 9342.6 |
| 30° | 10980.1 | 11046.5 | 11289.3 | 11475.3 | 11403.2 | 11369.0 | 11287.4 | 10983.9 | 10727.7 | 10465.9 | 9621.5 |
| 32.5° | 11496.1 | 11556.9 | 11769.4 | 11896.5 | 11805.4 | 11790.2 | 11666.9 | 11389.9 | 11185.0 | 11016.1 | 10073.1 |
| 35° | 12025.5 | 12069.1 | 12277.9 | 12350.0 | 12228.5 | 12224.7 | 12190.6 | 11936.3 | 11807.3 | 11887.0 | 10729.6 |
| 37.5° | 12566.3 | 12577.6 | 12756.0 | 12759.8 | 12723.7 | 12738.9 | 12775.0 | 12615.6 | 12651.6 | 12900.2 | 11583.4 |
| 40° | 13048.2 | 13078.5 | 13207.6 | 13247.4 | 13310.0 | 13363.2 | 13543.4 | 13439.0 | 13718.0 | 14158.2 | 12645.9 |
| 42.5° | 13404.9 | 13463.7 | 13670.5 | 13773.0 | 13976.0 | 14059.5 | 14313.7 | 14410.5 | 14972.1 | 15632.4 | 13909.6 |
| 45° | 13706.6 | 13797.7 | 14129.7 | 14340.3 | 14683.7 | 14829.8 | 15194.1 | 15518.6 | 16389.5 | 17231.9 | 15239.6 |
| 47.5° | 14032.9 | 14148.7 | 14564.2 | 14966.4 | 15433.2 | 15598.3 | 16260.4 | 16746.2 | 17901.7 | 18840.9 | 16493.8 |
| 50° | 14513.0 | 14602.1 | 15008.2 | 15640.0 | 16222.5 | 16435.0 | 17351.4 | 18047.8 | 19438.5 | 20373.9 | 17581.0 |
| 52.5° | 15182.7 | 15148.6 | 15492.0 | 16378.1 | 17159.8 | 17421.6 | 18516.4 | 19432.8 | 20996.3 | 21760.9 | 18499.3 |
| 55° | 15856.3 | 15799.4 | 16040.3 | 17150.3 | 18252.7 | 18527.8 | 19799.0 | 20823.6 | 22478.1 | 23009.4 | 19203.2 |
| 57.5° | 16605.8 | 16497.6 | 16700.6 | 18021.2 | 19497.3 | 19825.6 | 21235.3 | 22301.6 | 23935.3 | 24018.8 | 19651.0 |
| 60° | 17378.0 | 17231.9 | 17459.6 | 19100.8 | 21077.8 | 21464.9 | 22916.4 | 23743.6 | 25309.0 | 24827.0 | 19795.2 |
| 62.5° | 18053.4 | 17951.0 | 18302.0 | 20305.6 | 22859.5 | 23284.5 | 24567.1 | 25276.7 | 26663.7 | 25162.9 | 19275.3 |
| 65° | 18643.5 | 18660.6 | 19267.8 | 21660.3 | 24846.0 | 25299.5 | 26460.7 | 27166.5 | 27730.0 | 24963.7 | 18059.1 |
| 67.5° | 19347.4 | 19444.2 | 20480.2 | 23443.9 | 27346.7 | 27843.9 | 29215.7 | 29227.0 | 28325.8 | 23794.9 | 15664.7 |
| 70° | 20373.9 | 20573.1 | 22148.0 | 25918.0 | 30902.4 | 31585.5 | 32644.2 | 30437.6 | 27489.0 | 20626.3 | 12325.3 |
| 72.5° | 21284.7 | 21656.5 | 23922.0 | 28748.9 | 35236.0 | 35754.0 | 34649.7 | 29739.3 | 23992.2 | 15457.8 | 7678.6 |
| 74° | 20914.7 | 21375.7 | 24244.6 | 30143.5 | 36867.7 | 37116.3 | 33972.4 | 27701.6 | 20003.9 | 10704.9 | 4462.6 |
| 75° | 20117.8 | 20618.7 | 23774.0 | 30130.2 | 36660.9 | 36522.4 | 32336.8 | 25373.5 | 16474.8 | 7301.1 | 2969.4 |
| 77.5° | 16235.8 | 16765.1 | 20032.4 | 25823.2 | 30060.0 | 29929.1 | 24840.3 | 17021.3 | 7215.7 | 2394.5 | 1508.4 |
| 80° | 9439.4 | 9843.5 | 12435.3 | 16398.9 | 20269.6 | 20506.7 | 16336.3 | 8422.4 | 2838.5 | 1345.2 | 1022.7 |
| 82.5° | 4193.2 | 4472.1 | 6007.1 | 8371.2 | 12232.3 | 12537.8 | 8555.2 | 4413.3 | 1753.2 | 817.8 | 614.7 |
| 85° | 2751.2 | 2958.0 | 3646.7 | 3986.4 | 5824.9 | 6033.6 | 4187.5 | 3436.1 | 1157.4 | 449.7 | 451.6 |
| 87.5° | 1979.0 | 2178.2 | 2709.4 | 2366.0 | 2673.4 | 2531.1 | 2278.7 | 3180.0 | 464.9 | 256.1 | 151.8 |
| 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° | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 | 9490.6 |
| 2.5° | 9401.5 | 9371.1 | 9302.8 | 9173.8 | 9101.7 | 9041.0 | 8940.4 | 8881.6 | 8855.0 | 8853.1 | 8864.5 |
| 5° | 9168.1 | 9097.9 | 8921.4 | 8705.1 | 8532.5 | 8375.0 | 8179.5 | 8061.9 | 7978.4 | 7929.1 | 7942.4 |
| 7.5° | 8896.8 | 8786.7 | 8509.7 | 8164.4 | 7887.4 | 7581.9 | 7280.2 | 7099.9 | 6959.5 | 6855.2 | 6874.2 |
| 10° | 8710.8 | 8559.0 | 8154.9 | 7657.8 | 7196.7 | 6752.7 | 6337.2 | 6088.6 | 5891.3 | 5739.5 | 5750.9 |
| 12.5° | 8648.2 | 8443.3 | 7883.6 | 7219.5 | 6572.5 | 5965.3 | 5422.7 | 5041.3 | 4838.3 | 4665.6 | 4678.9 |
| 15° | 8657.7 | 8382.6 | 7655.9 | 6824.8 | 6010.9 | 5246.2 | 4587.8 | 4142.0 | 3866.8 | 3747.3 | 3749.2 |
| 17.5° | 8665.3 | 8312.4 | 7416.8 | 6401.7 | 5454.9 | 4574.6 | 3859.2 | 3407.7 | 3147.7 | 3037.7 | 3039.6 |
| 20° | 8640.6 | 8198.5 | 7120.8 | 5916.0 | 4874.3 | 3957.9 | 3265.4 | 2882.1 | 2684.8 | 2599.4 | 2599.4 |
| 22.5° | 8608.4 | 8063.8 | 6786.9 | 5428.4 | 4301.3 | 3422.8 | 2840.4 | 2548.2 | 2434.3 | 2377.4 | 2375.5 |
| 25° | 8623.5 | 7963.2 | 6445.4 | 4927.5 | 3773.9 | 2995.9 | 2557.7 | 2364.1 | 2288.2 | 2252.2 | 2250.3 |
| 27.5° | 8705.1 | 7915.8 | 6130.4 | 4428.5 | 3312.8 | 2675.3 | 2367.9 | 2231.3 | 2182.0 | 2159.2 | 2159.2 |
| 30° | 8853.1 | 7915.8 | 5802.1 | 4003.4 | 2929.5 | 2438.1 | 2221.8 | 2128.8 | 2094.7 | 2079.5 | 2079.5 |
| 32.5° | 9111.2 | 7959.5 | 5485.3 | 3582.2 | 2624.1 | 2252.2 | 2100.4 | 2037.8 | 2011.2 | 2003.6 | 2003.6 |
| 35° | 9555.1 | 8107.4 | 5176.0 | 3183.8 | 2377.4 | 2100.4 | 1984.6 | 1948.6 | 1929.6 | 1927.7 | 1933.4 |
| 37.5° | 10179.4 | 8409.1 | 4885.7 | 2889.7 | 2202.8 | 1977.1 | 1887.9 | 1859.4 | 1848.0 | 1857.5 | 1865.1 |
| 40° | 10964.9 | 8819.0 | 4622.0 | 2624.1 | 2070.0 | 1878.4 | 1798.7 | 1779.7 | 1774.0 | 1787.3 | 1798.7 |
| 42.5° | 11913.6 | 9373.0 | 4405.7 | 2432.4 | 1967.6 | 1794.9 | 1722.8 | 1700.0 | 1694.3 | 1709.5 | 1724.7 |
| 45° | 12940.0 | 9968.8 | 4253.9 | 2290.1 | 1887.9 | 1732.3 | 1656.4 | 1631.7 | 1620.4 | 1627.9 | 1645.0 |
| 47.5° | 13873.5 | 10532.3 | 4193.2 | 2189.6 | 1812.0 | 1679.2 | 1597.6 | 1567.2 | 1548.3 | 1544.5 | 1557.7 |
| 50° | 14661.0 | 10951.6 | 4221.6 | 2128.8 | 1751.3 | 1620.4 | 1540.7 | 1506.5 | 1478.0 | 1461.0 | 1470.5 |
| 52.5° | 15234.0 | 11215.3 | 4248.2 | 2102.3 | 1703.8 | 1555.8 | 1478.0 | 1445.8 | 1407.8 | 1379.4 | 1379.4 |
| 55° | 15649.5 | 11276.1 | 4189.4 | 2081.4 | 1667.8 | 1485.6 | 1407.8 | 1377.5 | 1339.5 | 1307.3 | 1303.5 |
| 57.5° | 15812.7 | 11105.3 | 3971.2 | 2051.1 | 1643.1 | 1419.2 | 1333.8 | 1311.1 | 1278.8 | 1240.9 | 1239.0 |
| 60° | 15592.6 | 10577.8 | 3550.0 | 1986.5 | 1610.9 | 1364.2 | 1259.9 | 1244.7 | 1229.5 | 1193.4 | 1191.5 |
| 62.5° | 14708.4 | 9420.4 | 3005.4 | 1855.6 | 1546.4 | 1305.4 | 1191.5 | 1199.1 | 1201.0 | 1176.4 | 1172.6 |
| 65° | 13105.1 | 7830.4 | 2474.2 | 1684.9 | 1449.6 | 1235.2 | 1121.3 | 1157.4 | 1178.3 | 1174.5 | 1168.8 |
| 67.5° | 10775.1 | 6094.3 | 2096.6 | 1504.6 | 1322.5 | 1138.4 | 1045.4 | 1087.2 | 1104.3 | 1117.5 | 1113.8 |
| 70° | 7997.4 | 4297.5 | 1734.2 | 1314.9 | 1168.8 | 1024.6 | 946.8 | 967.7 | 956.3 | 971.5 | 977.1 |
| 72.5° | 4458.8 | 2578.5 | 1413.5 | 1125.1 | 1009.4 | 891.8 | 836.7 | 832.9 | 808.3 | 808.3 | 808.3 |
| 74° | 2675.3 | 1891.7 | 1242.8 | 1007.5 | 912.6 | 804.5 | 757.0 | 740.0 | 717.2 | 719.1 | 717.2 |
| 75° | 2151.6 | 1626.0 | 1140.3 | 929.7 | 844.3 | 753.3 | 705.8 | 683.1 | 666.0 | 666.0 | 664.1 |
| 77.5° | 1358.5 | 1235.2 | 918.3 | 740.0 | 675.5 | 620.4 | 588.2 | 557.8 | 557.8 | 555.9 | 554.0 |
| 80° | 1026.5 | 982.8 | 715.3 | 559.7 | 518.0 | 476.2 | 455.4 | 442.1 | 442.1 | 447.8 | 445.9 |
| 82.5° | 703.9 | 740.0 | 502.8 | 390.9 | 370.0 | 339.6 | 335.8 | 337.7 | 332.0 | 324.4 | 322.6 |
| 85° | 514.2 | 555.9 | 339.6 | 246.7 | 225.8 | 206.8 | 222.0 | 229.6 | 220.1 | 203.0 | 195.4 |
| 87.5° | 197.3 | 364.3 | 182.1 | 102.5 | 94.9 | 81.6 | 94.9 | 98.7 | 106.3 | 83.5 | 85.4 |
| 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)