

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: P268709

Luminaire Tested: **GAN-AF-07-LED-U-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37400.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

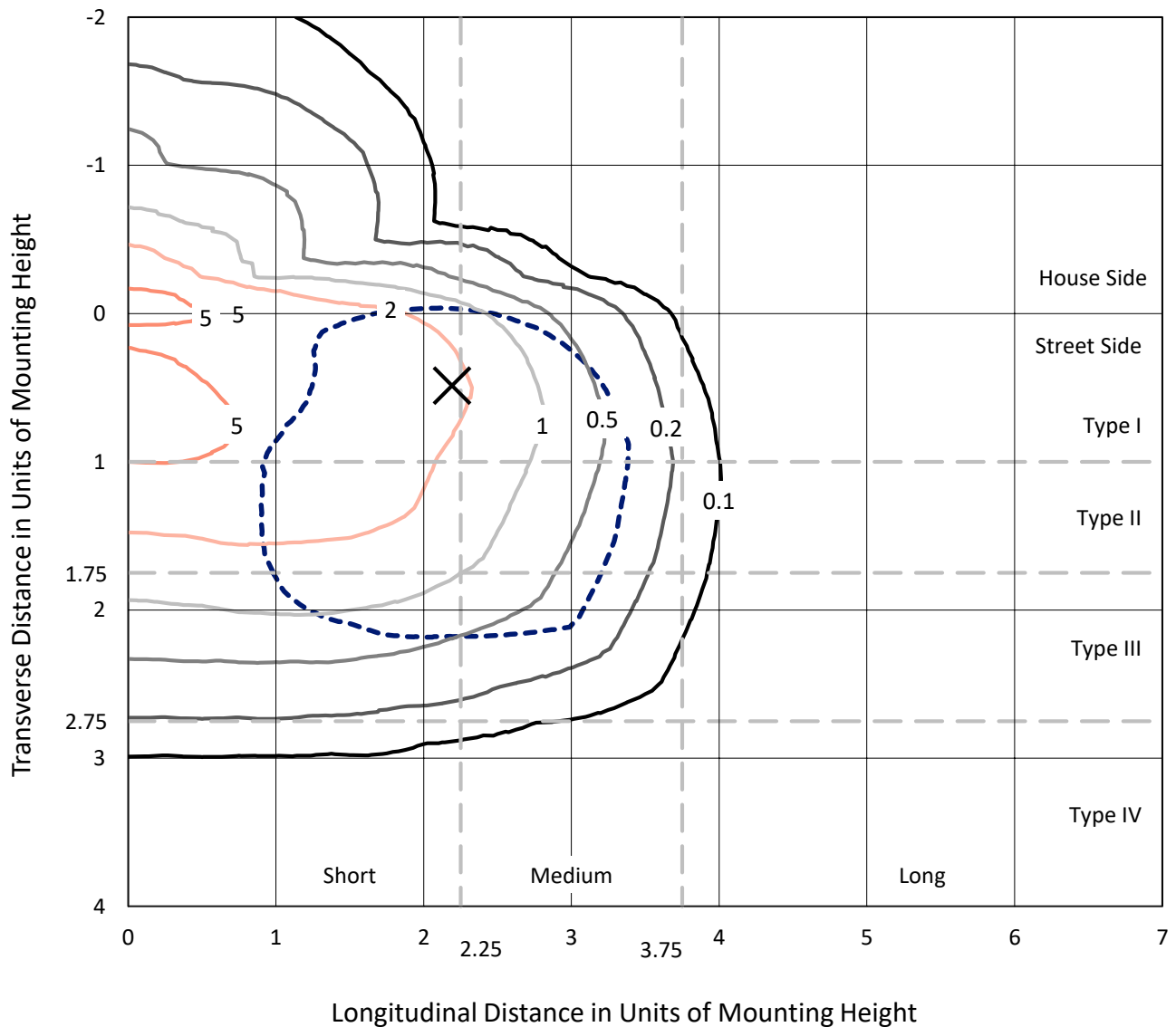
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

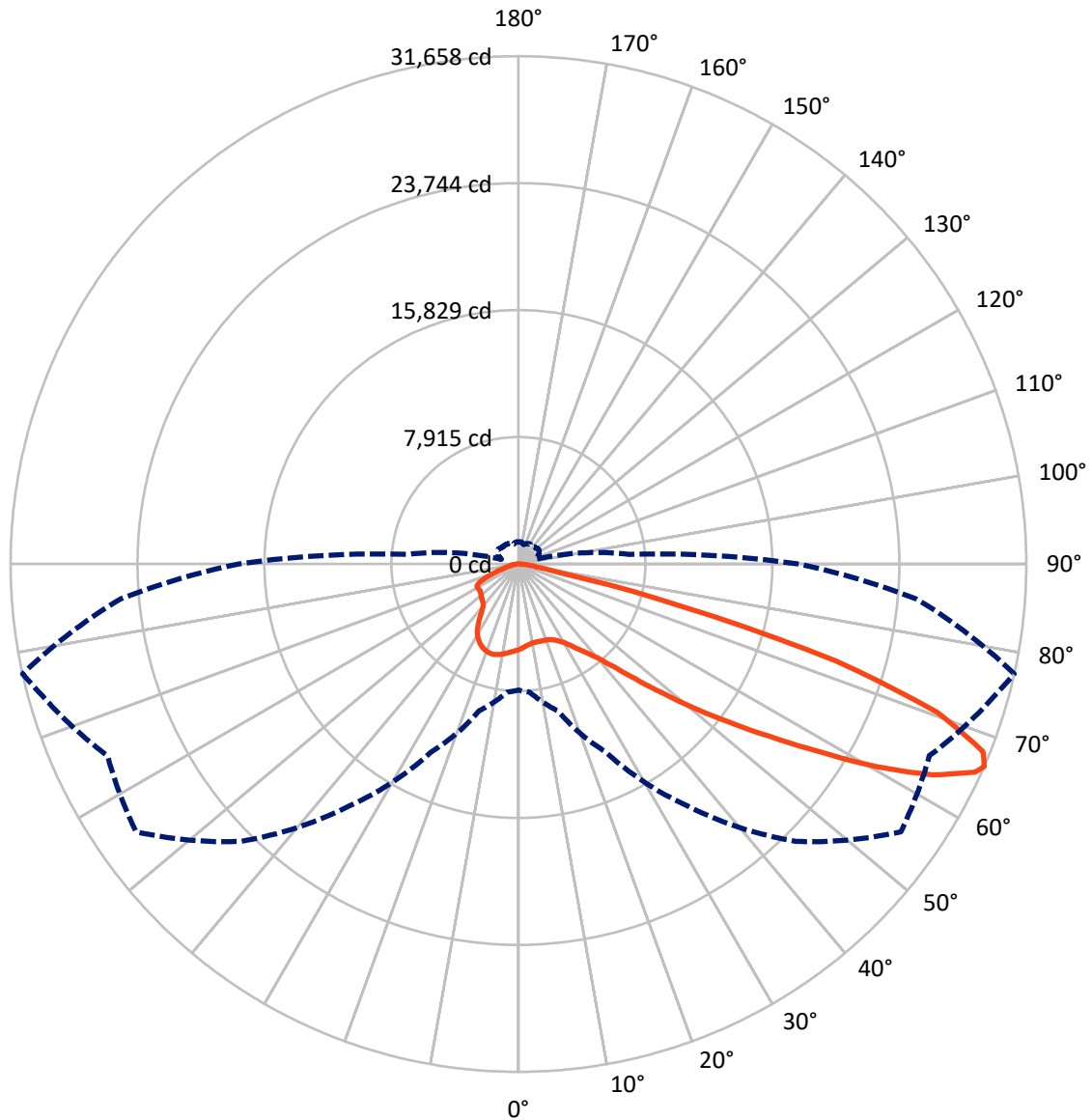
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6389.6 | 0.0 | 6389.6 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 31010.7 | 0.0 | 31010.7 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 37400.3 | 0.0 | 37400.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.2 | 1.3 |
| 10°-20° | 1343.3 | 3.6 |
| 20°-30° | 2292.6 | 6.1 |
| 30°-40° | 3670.1 | 9.8 |
| 40°-50° | 5669.9 | 15.2 |
| 50°-60° | 8041.9 | 21.5 |
| 60°-70° | 10757.9 | 28.8 |
| 70°-80° | 4672.0 | 12.5 |
| 80°-90° | 476.4 | 1.3 |
| 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° | 37400.3 | 100.0 |
| 0°-180° | 37400.3 | 100.0 |

Coefficient of Utilization



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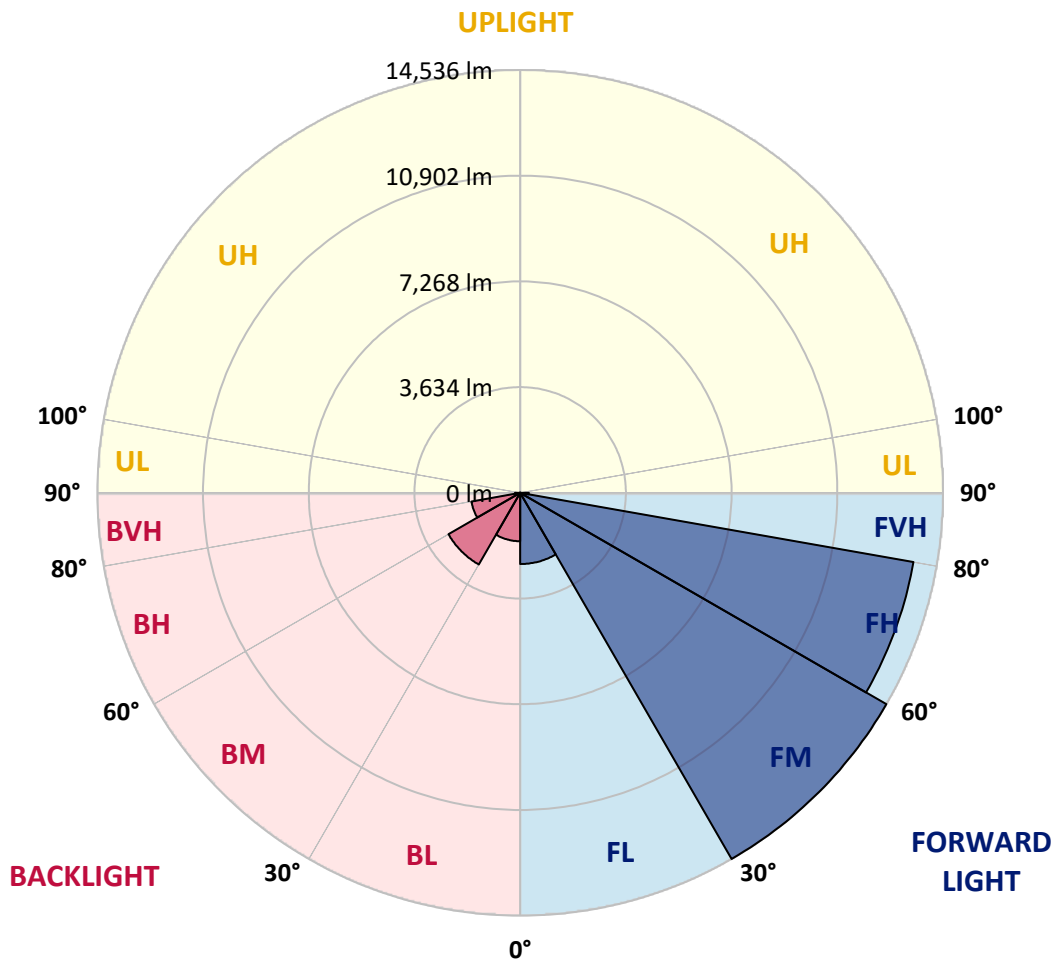
CATALOG NUMBER: GAN-AF-07-LED-U-T3R-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2448.0 | 6.5 | | | |
| FM | (30°-60°) | 14535.7 | 38.9 | | | |
| FH | (60°-80°) | 13728.2 | 36.7 | | | G5 |
| FVH | (80°-90°) | 298.8 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1664.1 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2846.2 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1701.7 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 177.6 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 |
| 2.5° | 4714.8 | 4746.6 | 4773.1 | 4797.8 | 4847.3 | 4928.6 | 5022.2 | 5098.2 | 5207.8 | 5229.0 | 5287.3 |
| 5° | 4281.9 | 4281.9 | 4303.1 | 4340.2 | 4407.3 | 4529.3 | 4656.5 | 4826.1 | 5064.6 | 5121.1 | 5276.7 |
| 7.5° | 4071.5 | 4073.3 | 4085.6 | 4117.4 | 4175.9 | 4287.2 | 4426.7 | 4626.5 | 4949.8 | 5043.4 | 5308.5 |
| 10° | 4149.4 | 4131.7 | 4105.1 | 4089.2 | 4098.0 | 4163.5 | 4296.0 | 4518.7 | 4879.1 | 4999.2 | 5379.2 |
| 12.5° | 4584.1 | 4550.5 | 4458.5 | 4336.6 | 4220.0 | 4172.3 | 4250.1 | 4467.4 | 4849.1 | 4988.6 | 5472.8 |
| 15° | 5294.4 | 5280.2 | 5108.8 | 4856.1 | 4573.5 | 4336.6 | 4283.6 | 4447.9 | 4852.6 | 5001.0 | 5584.3 |
| 17.5° | 6185.0 | 6165.5 | 5939.5 | 5571.8 | 5110.5 | 4649.4 | 4402.0 | 4463.8 | 4865.0 | 5022.2 | 5692.0 |
| 20° | 7084.6 | 7024.4 | 6780.5 | 6342.4 | 5750.3 | 5075.2 | 4598.2 | 4504.6 | 4880.9 | 5045.2 | 5805.0 |
| 22.5° | 7756.1 | 7706.5 | 7487.5 | 7061.5 | 6379.5 | 5568.4 | 4861.4 | 4575.2 | 4932.1 | 5112.3 | 5944.8 |
| 25° | 8346.2 | 8349.7 | 8132.4 | 7720.8 | 7015.7 | 6091.3 | 5200.7 | 4764.3 | 5062.8 | 5250.2 | 6135.6 |
| 27.5° | 9076.0 | 9033.6 | 8830.5 | 8422.1 | 7644.7 | 6619.7 | 5610.8 | 5024.0 | 5257.3 | 5446.3 | 6386.5 |
| 30° | 9949.1 | 9919.1 | 9684.0 | 9221.0 | 8342.6 | 7187.0 | 6079.0 | 5326.2 | 5508.1 | 5704.3 | 6715.2 |
| 32.5° | 10975.9 | 10961.7 | 10717.8 | 10122.2 | 9148.6 | 7855.0 | 6628.6 | 5725.5 | 5882.8 | 6086.0 | 7187.0 |
| 35° | 12180.9 | 12182.8 | 11894.6 | 11179.0 | 10030.4 | 8632.5 | 7252.3 | 6239.7 | 6338.8 | 6550.8 | 7749.0 |
| 37.5° | 12923.1 | 13013.2 | 12905.5 | 12175.6 | 11028.9 | 9501.9 | 8061.7 | 6921.9 | 6858.3 | 7072.1 | 8351.5 |
| 40° | 13082.1 | 13191.8 | 13532.8 | 13161.7 | 12145.7 | 10459.8 | 8779.1 | 7577.6 | 7498.1 | 7759.6 | 9127.3 |
| 42.5° | 12859.5 | 13011.5 | 13732.5 | 13994.1 | 13331.3 | 11640.1 | 9744.0 | 8551.2 | 8450.5 | 8802.2 | 10092.2 |
| 45° | 12726.9 | 12840.2 | 13674.2 | 14427.0 | 14359.9 | 12974.4 | 10972.3 | 9774.1 | 9737.0 | 10198.2 | 11205.5 |
| 47.5° | 12497.3 | 12599.7 | 13402.1 | 14527.7 | 14964.2 | 14197.4 | 12447.9 | 11269.1 | 11341.6 | 11945.9 | 12461.9 |
| 50° | 12620.9 | 12663.3 | 13098.1 | 14271.6 | 15139.1 | 15093.2 | 14096.6 | 13000.9 | 13248.4 | 14002.9 | 13884.6 |
| 52.5° | 12603.3 | 12712.9 | 13062.8 | 13851.0 | 15162.1 | 15646.4 | 15720.6 | 14932.4 | 15453.7 | 16319.7 | 15462.5 |
| 55° | 10189.4 | 10390.9 | 12647.4 | 13744.8 | 15243.5 | 16188.8 | 17166.2 | 16968.2 | 17940.1 | 18949.1 | 17243.9 |
| 57.5° | 9729.9 | 9857.1 | 11108.4 | 13967.6 | 15674.6 | 17224.5 | 18774.1 | 19208.9 | 20834.7 | 22006.3 | 19413.9 |
| 60° | 9639.8 | 9797.0 | 11092.5 | 14239.8 | 16549.4 | 18912.0 | 21158.0 | 21921.5 | 24356.6 | 25639.6 | 21930.3 |
| 62.5° | 9358.8 | 9528.5 | 10988.2 | 14204.4 | 17791.7 | 21246.4 | 24210.0 | 24805.4 | 27696.5 | 28944.2 | 24035.1 |
| 65° | 8468.2 | 8627.2 | 10138.1 | 13633.5 | 18629.3 | 23738.2 | 27822.0 | 27449.1 | 30333.2 | 31271.4 | 25084.7 |
| 66° | 7858.6 | 8014.0 | 9468.3 | 12962.1 | 18434.8 | 24444.9 | 29101.4 | 28267.3 | 30923.3 | 31658.4 | 24879.6 |
| 67.5° | 6743.4 | 6865.3 | 8167.7 | 11458.2 | 17401.2 | 24642.9 | 30177.7 | 28882.3 | 30985.1 | 31244.9 | 23708.1 |
| 70° | 4260.7 | 4296.0 | 5308.5 | 7909.8 | 13172.3 | 21371.9 | 28539.5 | 27355.5 | 28429.9 | 27726.5 | 19875.1 |
| 72.5° | 1848.4 | 1836.0 | 2548.2 | 4023.8 | 7457.4 | 14340.5 | 23086.0 | 22571.8 | 22301.4 | 20696.9 | 13912.8 |
| 75° | 1028.5 | 1042.7 | 1323.7 | 1867.8 | 3030.6 | 7043.9 | 15102.0 | 14451.8 | 12202.1 | 10412.1 | 6308.7 |
| 77.5° | 825.3 | 844.6 | 1097.4 | 1325.4 | 1360.8 | 2456.3 | 7066.8 | 5750.3 | 3461.9 | 2778.0 | 1753.0 |
| 80° | 652.1 | 687.5 | 957.9 | 1032.1 | 917.2 | 1012.6 | 2283.1 | 1825.4 | 1369.6 | 1256.5 | 908.4 |
| 82.5° | 515.9 | 540.8 | 821.7 | 781.0 | 641.5 | 682.2 | 1093.9 | 1065.6 | 890.6 | 811.1 | 524.8 |
| 85° | 371.1 | 417.1 | 675.0 | 588.5 | 420.5 | 459.5 | 726.3 | 696.2 | 510.6 | 417.1 | 231.6 |
| 87.5° | 152.0 | 197.9 | 477.1 | 390.6 | 235.0 | 213.8 | 362.2 | 341.0 | 242.2 | 176.6 | 114.9 |
| 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° | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 | 5329.7 |
| 2.5° | 5324.4 | 5366.8 | 5421.6 | 5455.1 | 5472.8 | 5485.2 | 5504.6 | 5502.8 | 5508.1 | 5509.9 | 5517.0 |
| 5° | 5359.7 | 5430.4 | 5509.9 | 5531.1 | 5531.1 | 5511.7 | 5492.2 | 5460.4 | 5448.1 | 5444.5 | 5448.1 |
| 7.5° | 5451.6 | 5529.3 | 5598.3 | 5573.7 | 5520.5 | 5442.8 | 5342.1 | 5253.7 | 5206.0 | 5190.0 | 5186.5 |
| 10° | 5568.4 | 5661.9 | 5690.3 | 5596.6 | 5441.0 | 5253.7 | 5054.0 | 4909.1 | 4826.1 | 4803.1 | 4796.1 |
| 12.5° | 5709.6 | 5798.0 | 5759.2 | 5561.2 | 5273.2 | 4971.0 | 4695.4 | 4463.8 | 4290.7 | 4235.9 | 4232.4 |
| 15° | 5865.2 | 5934.2 | 5798.0 | 5451.6 | 5022.2 | 4577.0 | 4085.6 | 3686.3 | 3470.7 | 3401.7 | 3396.4 |
| 17.5° | 6010.1 | 6045.5 | 5775.1 | 5260.8 | 4653.0 | 3931.9 | 3279.8 | 2972.3 | 2898.1 | 2915.8 | 2919.3 |
| 20° | 6133.7 | 6133.7 | 5697.3 | 4986.9 | 4071.5 | 3081.9 | 2670.1 | 2664.8 | 2717.9 | 2770.9 | 2781.5 |
| 22.5° | 6269.8 | 6188.6 | 5561.2 | 4600.0 | 3248.0 | 2521.7 | 2461.6 | 2511.1 | 2571.2 | 2629.5 | 2638.3 |
| 25° | 6437.8 | 6232.7 | 5372.1 | 4013.2 | 2553.5 | 2290.1 | 2313.1 | 2353.9 | 2383.9 | 2421.0 | 2426.3 |
| 27.5° | 6625.0 | 6289.4 | 5122.9 | 3205.6 | 2215.9 | 2145.3 | 2162.9 | 2177.1 | 2173.5 | 2187.7 | 2191.2 |
| 30° | 6849.4 | 6354.7 | 4781.9 | 2505.8 | 2076.4 | 2021.6 | 1989.8 | 1977.4 | 1977.4 | 2000.4 | 2009.2 |
| 32.5° | 7149.9 | 6451.8 | 4292.5 | 2147.0 | 2009.2 | 1933.2 | 1830.7 | 1784.8 | 1802.4 | 1880.2 | 1897.8 |
| 35° | 7480.4 | 6556.1 | 3629.7 | 2025.1 | 1995.1 | 1892.5 | 1733.5 | 1648.7 | 1650.5 | 1722.9 | 1745.9 |
| 37.5° | 7840.9 | 6688.7 | 2903.4 | 2002.2 | 2026.9 | 1894.3 | 1682.3 | 1565.7 | 1518.0 | 1518.0 | 1526.8 |
| 40° | 8302.0 | 6824.8 | 2350.3 | 2018.1 | 2094.0 | 1915.5 | 1655.8 | 1500.3 | 1366.1 | 1369.6 | 1376.7 |
| 42.5° | 8902.9 | 6941.4 | 2053.4 | 2051.6 | 2175.3 | 1943.8 | 1654.0 | 1413.8 | 1297.2 | 1376.7 | 1449.1 |
| 45° | 9570.9 | 6999.8 | 1922.6 | 2081.7 | 2240.7 | 1961.4 | 1625.8 | 1399.6 | 1306.0 | 1542.7 | 1680.5 |
| 47.5° | 10339.6 | 6966.0 | 1850.1 | 2092.3 | 2256.6 | 1961.4 | 1594.0 | 1433.2 | 1367.8 | 1786.5 | 1947.3 |
| 50° | 11182.6 | 6868.9 | 1779.5 | 2071.1 | 2251.3 | 1957.9 | 1624.0 | 1466.8 | 1390.8 | 1828.9 | 1940.2 |
| 52.5° | 12173.9 | 6787.7 | 1705.3 | 2025.1 | 2214.2 | 1938.5 | 1659.3 | 1452.6 | 1318.4 | 1662.9 | 1740.6 |
| 55° | 13304.8 | 6810.6 | 1622.2 | 1959.7 | 2155.9 | 1901.4 | 1647.0 | 1396.1 | 1242.3 | 1465.0 | 1512.7 |
| 57.5° | 14750.3 | 7084.6 | 1523.3 | 1876.6 | 2076.4 | 1839.5 | 1602.8 | 1369.6 | 1219.3 | 1329.0 | 1357.2 |
| 60° | 16363.9 | 7561.7 | 1399.6 | 1793.6 | 1977.4 | 1740.6 | 1569.2 | 1382.0 | 1229.9 | 1318.4 | 1332.5 |
| 62.5° | 17547.9 | 7839.1 | 1293.6 | 1671.7 | 1843.1 | 1631.1 | 1526.8 | 1397.9 | 1258.3 | 1355.5 | 1351.9 |
| 65° | 17869.4 | 7383.2 | 1161.0 | 1493.3 | 1661.1 | 1516.2 | 1473.8 | 1415.5 | 1270.7 | 1385.5 | 1369.6 |
| 66° | 17418.9 | 6891.8 | 1102.7 | 1410.2 | 1569.2 | 1459.7 | 1447.3 | 1413.8 | 1265.4 | 1389.0 | 1362.5 |
| 67.5° | 16325.0 | 5884.5 | 1002.0 | 1288.3 | 1422.6 | 1374.9 | 1404.9 | 1397.9 | 1251.1 | 1385.5 | 1348.4 |
| 70° | 13313.7 | 4015.0 | 857.1 | 1072.7 | 1184.0 | 1210.5 | 1323.7 | 1341.3 | 1205.2 | 1323.7 | 1242.3 |
| 72.5° | 9302.3 | 2445.7 | 758.1 | 832.3 | 957.9 | 1032.1 | 1212.3 | 1263.6 | 1143.4 | 1155.7 | 1078.0 |
| 75° | 4495.7 | 1298.9 | 687.5 | 645.1 | 743.9 | 862.4 | 1078.0 | 1157.5 | 1046.2 | 966.7 | 938.4 |
| 77.5° | 1401.4 | 793.5 | 583.2 | 519.5 | 583.2 | 696.2 | 901.3 | 1014.4 | 931.4 | 809.4 | 798.8 |
| 80° | 752.8 | 583.2 | 448.9 | 417.1 | 461.2 | 546.1 | 708.7 | 846.5 | 800.5 | 726.3 | 648.5 |
| 82.5° | 496.6 | 378.1 | 332.3 | 323.4 | 351.6 | 417.1 | 526.5 | 701.5 | 701.5 | 622.0 | 452.3 |
| 85° | 256.2 | 231.6 | 228.0 | 228.0 | 245.6 | 277.4 | 358.8 | 540.8 | 576.2 | 328.7 | 272.1 |
| 87.5° | 127.2 | 132.5 | 123.6 | 128.9 | 137.8 | 136.1 | 171.3 | 272.1 | 325.1 | 199.8 | 166.0 |
| 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)