

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: P191478

Luminaire Tested: **GAN-AF-10-LED-U-T3R-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191478
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-10-LED-U-T3R-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40599.9 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

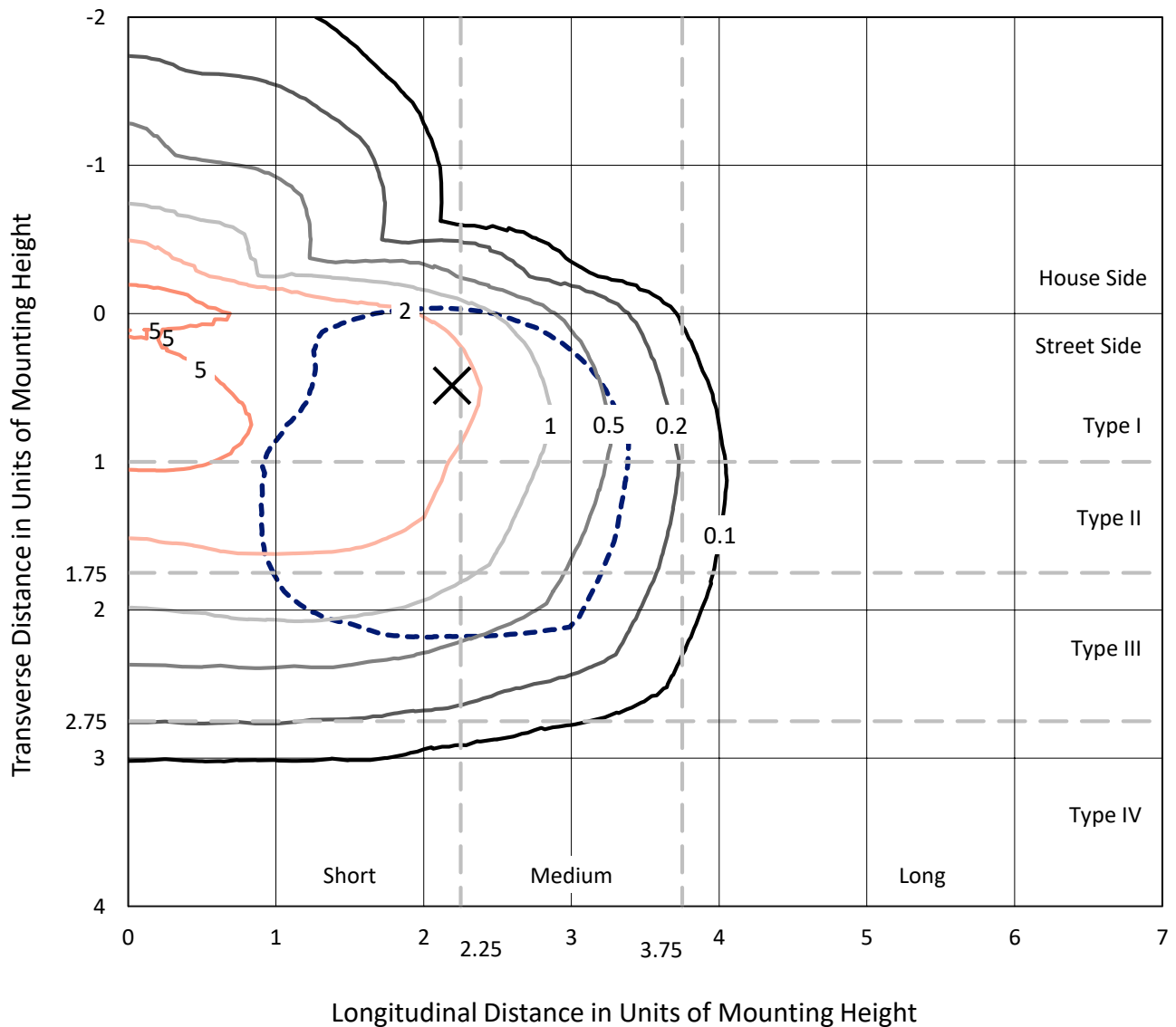
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

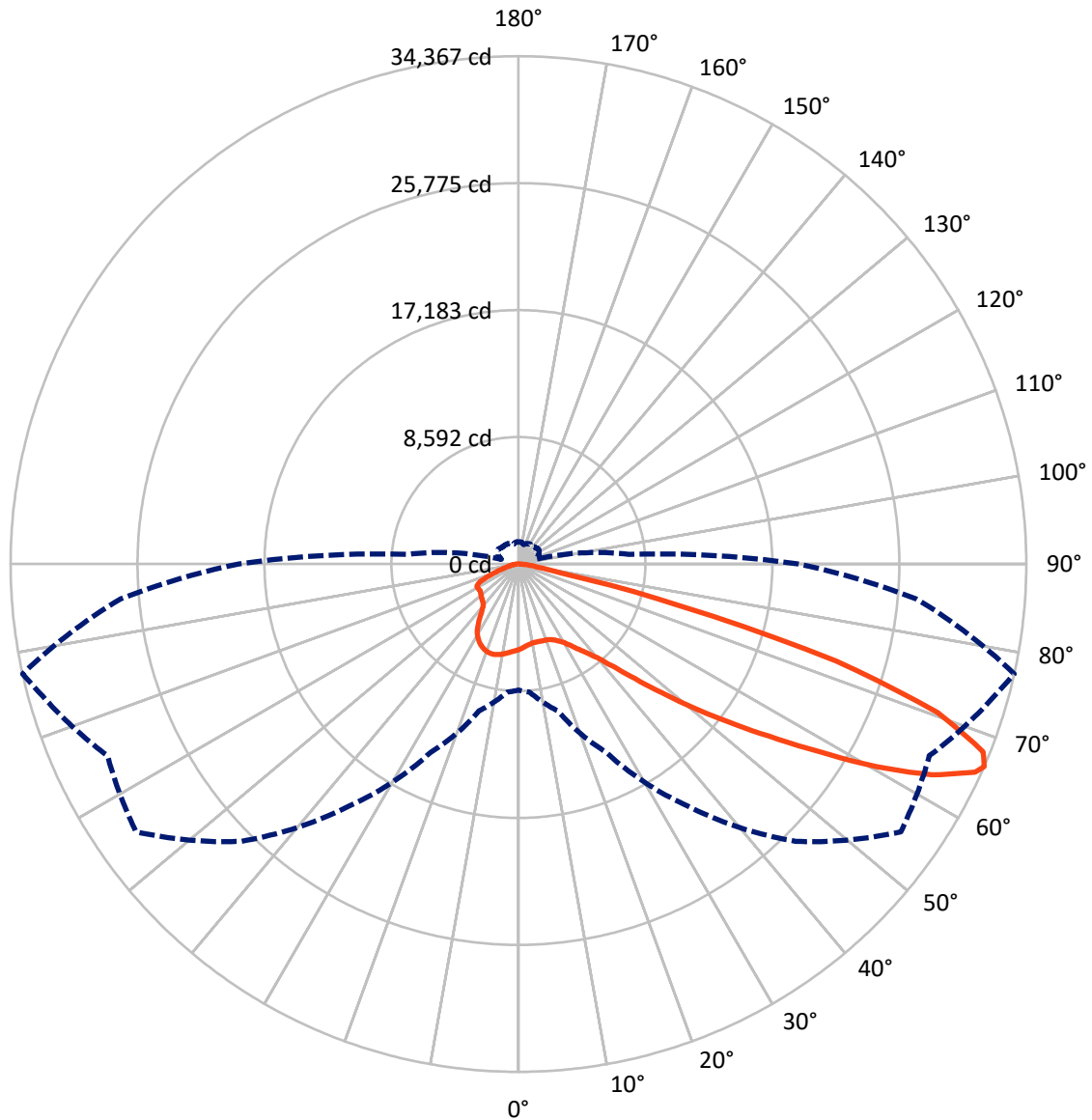
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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 | 6936.2 | 0.0 | 6936.2 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 33663.7 | 0.0 | 33663.7 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 40599.9 | 0.0 | 40599.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 516.9 | 1.3 |
| 10°-20° | 1458.3 | 3.6 |
| 20°-30° | 2488.8 | 6.1 |
| 30°-40° | 3984.1 | 9.8 |
| 40°-50° | 6155.0 | 15.2 |
| 50°-60° | 8729.9 | 21.5 |
| 60°-70° | 11678.2 | 28.8 |
| 70°-80° | 5071.6 | 12.5 |
| 80°-90° | 517.1 | 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° | 40599.9 | 100.0 |
| 0°-180° | 40599.9 | 100.0 |



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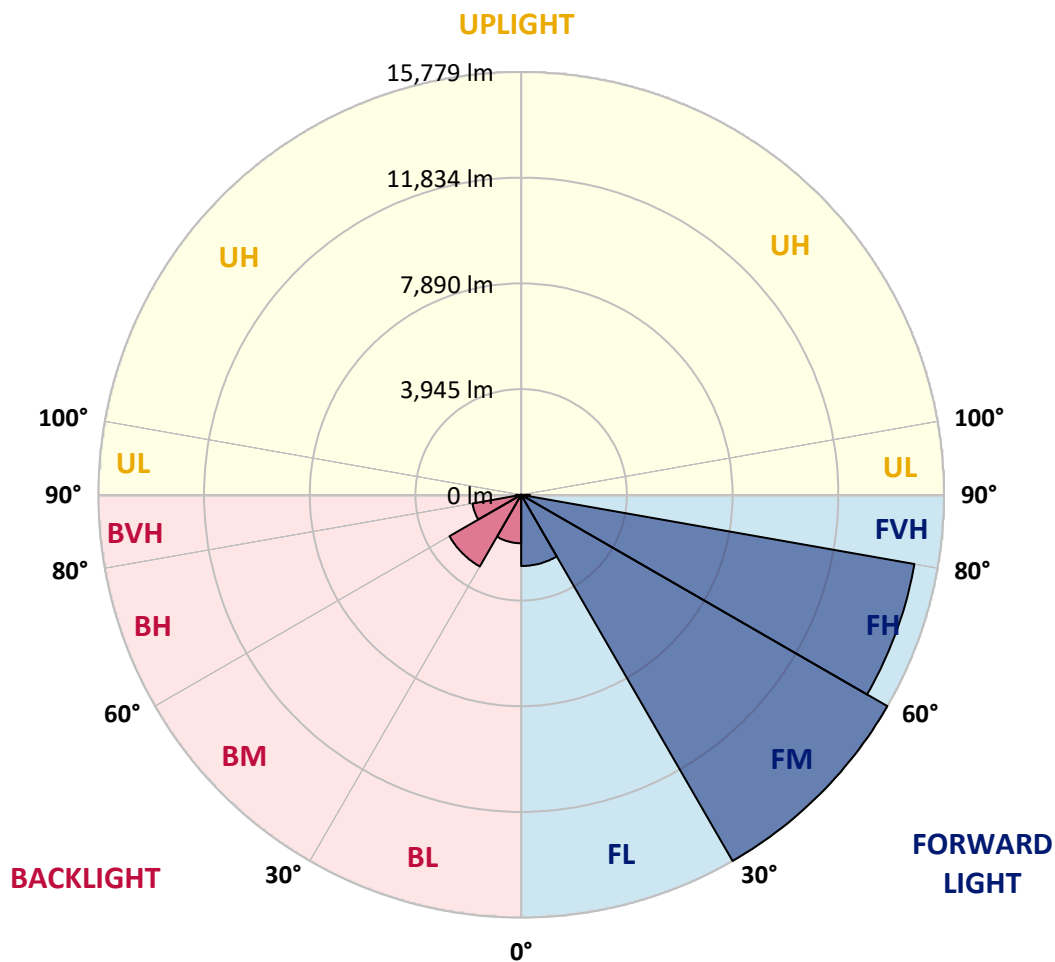
CATALOG NUMBER: GAN-AF-10-LED-U-T3R-600-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2657.4 | 6.5 | | | |
| FM | (30°-60°) | 15779.2 | 38.9 | | | |
| FH | (60°-80°) | 14902.6 | 36.7 | | | G5 |
| FVH | (80°-90°) | 324.3 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1806.5 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 3089.7 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1847.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 192.8 | 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° | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 |
| 2.5° | 5118.1 | 5152.6 | 5181.5 | 5208.3 | 5262.0 | 5350.2 | 5451.9 | 5534.4 | 5653.3 | 5676.4 | 5739.7 |
| 5° | 4648.1 | 4648.1 | 4671.1 | 4711.4 | 4784.3 | 4916.7 | 5054.8 | 5238.9 | 5498.0 | 5559.3 | 5728.1 |
| 7.5° | 4419.9 | 4421.7 | 4435.2 | 4469.7 | 4533.0 | 4653.9 | 4805.4 | 5022.2 | 5373.3 | 5474.9 | 5762.7 |
| 10° | 4504.3 | 4485.0 | 4456.3 | 4439.0 | 4448.6 | 4519.6 | 4663.4 | 4905.2 | 5296.5 | 5427.0 | 5839.4 |
| 12.5° | 4976.1 | 4939.7 | 4840.0 | 4707.6 | 4581.0 | 4529.2 | 4613.6 | 4849.5 | 5263.9 | 5415.4 | 5941.1 |
| 15° | 5747.3 | 5732.0 | 5545.9 | 5271.6 | 4964.6 | 4707.6 | 4650.0 | 4828.4 | 5267.7 | 5428.9 | 6061.9 |
| 17.5° | 6714.1 | 6693.1 | 6447.5 | 6048.5 | 5547.8 | 5047.1 | 4778.5 | 4845.7 | 5281.2 | 5451.9 | 6178.9 |
| 20° | 7690.5 | 7625.4 | 7360.6 | 6884.9 | 6242.3 | 5509.4 | 4991.5 | 4889.8 | 5298.4 | 5476.8 | 6301.7 |
| 22.5° | 8419.5 | 8365.8 | 8128.0 | 7665.7 | 6925.2 | 6044.6 | 5277.3 | 4966.5 | 5354.0 | 5549.7 | 6453.3 |
| 25° | 9060.3 | 9064.1 | 8828.2 | 8381.1 | 7615.8 | 6612.5 | 5645.7 | 5171.8 | 5496.0 | 5699.4 | 6660.4 |
| 27.5° | 9852.6 | 9806.5 | 9585.9 | 9142.7 | 8298.7 | 7186.0 | 6090.6 | 5453.8 | 5707.0 | 5912.2 | 6932.8 |
| 30° | 10800.2 | 10767.6 | 10512.5 | 10009.9 | 9056.4 | 7801.8 | 6599.1 | 5781.8 | 5979.5 | 6192.3 | 7289.6 |
| 32.5° | 11914.7 | 11899.4 | 11634.6 | 10988.2 | 9931.2 | 8527.0 | 7195.6 | 6215.3 | 6386.1 | 6606.7 | 7801.8 |
| 35° | 13223.1 | 13224.9 | 12912.3 | 12135.4 | 10888.4 | 9371.0 | 7872.8 | 6773.6 | 6881.1 | 7111.2 | 8411.8 |
| 37.5° | 14028.7 | 14126.5 | 14009.5 | 13217.2 | 11972.3 | 10314.8 | 8751.4 | 7514.1 | 7445.0 | 7677.1 | 9066.0 |
| 40° | 14201.4 | 14320.3 | 14690.6 | 14287.8 | 13184.7 | 11354.5 | 9530.2 | 8225.8 | 8139.5 | 8423.4 | 9908.2 |
| 42.5° | 13959.7 | 14124.7 | 14907.4 | 15191.2 | 14471.9 | 12636.0 | 10577.6 | 9282.8 | 9173.4 | 9555.2 | 10955.6 |
| 45° | 13815.8 | 13938.5 | 14844.0 | 15661.3 | 15588.3 | 14084.4 | 11910.9 | 10610.3 | 10569.9 | 11070.7 | 12164.1 |
| 47.5° | 13566.4 | 13677.7 | 14548.6 | 15770.5 | 16244.4 | 15411.9 | 13512.7 | 12233.2 | 12311.8 | 12967.9 | 13528.0 |
| 50° | 13700.7 | 13746.7 | 14218.6 | 15492.4 | 16434.3 | 16384.4 | 15302.5 | 14113.1 | 14381.7 | 15200.8 | 15072.3 |
| 52.5° | 13681.6 | 13800.4 | 14180.2 | 15035.8 | 16459.3 | 16984.9 | 17065.5 | 16209.9 | 16775.8 | 17715.8 | 16785.4 |
| 55° | 11061.1 | 11279.8 | 13729.4 | 14920.8 | 16547.5 | 17573.8 | 18634.7 | 18419.8 | 19474.8 | 20570.2 | 18719.1 |
| 57.5° | 10562.3 | 10700.5 | 12058.6 | 15162.5 | 17015.6 | 18697.9 | 20380.4 | 20852.2 | 22617.1 | 23889.0 | 21074.7 |
| 60° | 10464.5 | 10635.2 | 12041.4 | 15457.9 | 17965.2 | 20529.9 | 22968.1 | 23796.9 | 26440.3 | 27833.1 | 23806.4 |
| 62.5° | 10159.4 | 10343.7 | 11928.1 | 15419.6 | 19313.7 | 23064.1 | 26281.1 | 26927.5 | 30066.0 | 31420.3 | 26091.2 |
| 65° | 9192.6 | 9365.3 | 11005.4 | 14800.0 | 20223.0 | 25768.9 | 30202.1 | 29797.4 | 32928.1 | 33946.7 | 27230.6 |
| 66° | 8530.8 | 8699.6 | 10278.4 | 14070.9 | 20012.0 | 26536.3 | 31591.1 | 30685.6 | 33568.8 | 34366.9 | 27008.2 |
| 67.5° | 7320.3 | 7452.7 | 8866.5 | 12438.5 | 18889.8 | 26751.1 | 32759.3 | 31353.1 | 33636.0 | 33918.0 | 25736.3 |
| 70° | 4625.1 | 4663.4 | 5762.7 | 8586.4 | 14299.2 | 23200.2 | 30981.0 | 29695.8 | 30862.0 | 30098.6 | 21575.5 |
| 72.5° | 2006.6 | 1993.1 | 2766.3 | 4368.0 | 8095.3 | 15567.3 | 25061.1 | 24502.8 | 24209.3 | 22467.5 | 15102.9 |
| 75° | 1116.4 | 1131.8 | 1436.8 | 2027.7 | 3289.9 | 7646.5 | 16394.0 | 15688.1 | 13246.1 | 11302.8 | 6848.5 |
| 77.5° | 895.9 | 917.0 | 1191.3 | 1438.8 | 1477.1 | 2666.5 | 7671.4 | 6242.3 | 3758.0 | 3015.7 | 1903.0 |
| 80° | 707.9 | 746.2 | 1039.7 | 1120.3 | 995.6 | 1099.2 | 2478.5 | 1981.7 | 1486.7 | 1363.9 | 986.0 |
| 82.5° | 560.2 | 587.0 | 892.0 | 847.9 | 696.3 | 740.5 | 1187.4 | 1156.8 | 966.8 | 880.6 | 569.8 |
| 85° | 402.8 | 452.8 | 732.8 | 638.8 | 456.5 | 498.8 | 788.4 | 755.9 | 554.4 | 452.8 | 251.3 |
| 87.5° | 165.0 | 214.8 | 517.9 | 423.9 | 255.1 | 232.1 | 393.2 | 370.2 | 262.8 | 191.8 | 124.7 |
| 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° | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 | 5785.7 |
| 2.5° | 5779.9 | 5826.0 | 5885.4 | 5921.9 | 5941.1 | 5954.5 | 5975.6 | 5973.6 | 5979.5 | 5981.4 | 5989.1 |
| 5° | 5818.3 | 5895.1 | 5981.4 | 6004.4 | 6004.4 | 5983.2 | 5962.2 | 5927.6 | 5914.2 | 5910.4 | 5914.2 |
| 7.5° | 5918.1 | 6002.5 | 6077.2 | 6050.4 | 5992.9 | 5908.5 | 5799.1 | 5703.2 | 5651.4 | 5634.1 | 5630.3 |
| 10° | 6044.6 | 6146.3 | 6177.0 | 6075.3 | 5906.5 | 5703.2 | 5486.4 | 5329.2 | 5238.9 | 5214.0 | 5206.3 |
| 12.5° | 6198.2 | 6294.0 | 6251.9 | 6036.9 | 5724.3 | 5396.3 | 5097.0 | 4845.7 | 4657.7 | 4598.3 | 4594.4 |
| 15° | 6366.9 | 6441.7 | 6294.0 | 5918.1 | 5451.9 | 4968.5 | 4435.2 | 4001.7 | 3767.6 | 3692.8 | 3687.0 |
| 17.5° | 6524.3 | 6562.6 | 6269.1 | 5710.8 | 5050.9 | 4268.3 | 3560.4 | 3226.6 | 3146.1 | 3165.2 | 3169.1 |
| 20° | 6658.5 | 6658.5 | 6184.7 | 5413.6 | 4419.9 | 3345.6 | 2898.6 | 2892.8 | 2950.4 | 3008.0 | 3019.4 |
| 22.5° | 6806.2 | 6718.0 | 6036.9 | 4993.4 | 3525.9 | 2737.4 | 2672.3 | 2726.0 | 2791.1 | 2854.4 | 2864.1 |
| 25° | 6988.5 | 6765.9 | 5831.7 | 4356.5 | 2772.0 | 2486.2 | 2511.1 | 2555.2 | 2587.9 | 2628.1 | 2633.9 |
| 27.5° | 7191.9 | 6827.4 | 5561.3 | 3479.9 | 2405.6 | 2328.8 | 2348.1 | 2363.4 | 2359.5 | 2374.9 | 2378.8 |
| 30° | 7435.4 | 6898.3 | 5191.0 | 2720.2 | 2254.1 | 2194.5 | 2160.1 | 2146.6 | 2146.6 | 2171.5 | 2181.1 |
| 32.5° | 7761.5 | 7003.8 | 4659.6 | 2330.8 | 2181.1 | 2098.7 | 1987.4 | 1937.5 | 1956.7 | 2041.1 | 2060.3 |
| 35° | 8120.3 | 7117.0 | 3940.2 | 2198.4 | 2165.8 | 2054.5 | 1881.9 | 1789.8 | 1791.7 | 1870.4 | 1895.3 |
| 37.5° | 8511.7 | 7260.9 | 3151.8 | 2173.5 | 2200.4 | 2056.4 | 1826.3 | 1699.6 | 1647.9 | 1647.9 | 1657.4 |
| 40° | 9012.3 | 7408.6 | 2551.3 | 2190.8 | 2273.2 | 2079.5 | 1797.4 | 1628.6 | 1482.9 | 1486.7 | 1494.4 |
| 42.5° | 9664.5 | 7535.2 | 2229.1 | 2227.2 | 2361.5 | 2110.1 | 1795.6 | 1534.6 | 1408.1 | 1494.4 | 1573.0 |
| 45° | 10389.7 | 7598.5 | 2087.1 | 2259.8 | 2432.5 | 2129.4 | 1764.9 | 1519.3 | 1417.6 | 1674.7 | 1824.3 |
| 47.5° | 11224.1 | 7562.1 | 2008.5 | 2271.3 | 2449.7 | 2129.4 | 1730.3 | 1555.8 | 1484.8 | 1939.4 | 2114.0 |
| 50° | 12139.2 | 7456.5 | 1931.7 | 2248.2 | 2443.9 | 2125.5 | 1763.0 | 1592.2 | 1509.8 | 1985.4 | 2106.4 |
| 52.5° | 13215.4 | 7368.3 | 1851.2 | 2198.4 | 2403.6 | 2104.4 | 1801.3 | 1576.9 | 1431.1 | 1805.1 | 1889.6 |
| 55° | 14443.0 | 7393.3 | 1761.0 | 2127.4 | 2340.4 | 2064.1 | 1787.9 | 1515.5 | 1348.6 | 1590.3 | 1642.0 |
| 57.5° | 16012.2 | 7690.5 | 1653.6 | 2037.3 | 2254.1 | 1997.0 | 1739.9 | 1486.7 | 1323.6 | 1442.6 | 1473.3 |
| 60° | 17763.7 | 8208.6 | 1519.3 | 1947.1 | 2146.6 | 1889.6 | 1703.5 | 1500.2 | 1335.2 | 1431.1 | 1446.5 |
| 62.5° | 19049.0 | 8509.7 | 1404.2 | 1814.7 | 2000.8 | 1770.6 | 1657.4 | 1517.4 | 1365.8 | 1471.3 | 1467.5 |
| 65° | 19398.1 | 8014.8 | 1260.4 | 1621.0 | 1803.3 | 1645.9 | 1599.9 | 1536.6 | 1379.2 | 1503.9 | 1486.7 |
| 66° | 18908.9 | 7481.5 | 1197.1 | 1530.8 | 1703.5 | 1584.6 | 1571.2 | 1534.6 | 1373.5 | 1507.8 | 1479.0 |
| 67.5° | 17721.5 | 6388.0 | 1087.7 | 1398.5 | 1544.2 | 1492.5 | 1525.1 | 1517.4 | 1358.2 | 1503.9 | 1463.6 |
| 70° | 14452.7 | 4358.5 | 930.4 | 1164.4 | 1285.2 | 1314.1 | 1436.8 | 1456.0 | 1308.3 | 1436.8 | 1348.6 |
| 72.5° | 10098.1 | 2655.0 | 823.0 | 903.6 | 1039.7 | 1120.3 | 1315.9 | 1371.6 | 1241.1 | 1254.5 | 1170.2 |
| 75° | 4880.2 | 1409.9 | 746.2 | 700.2 | 807.6 | 936.1 | 1170.2 | 1256.5 | 1135.7 | 1049.3 | 1018.7 |
| 77.5° | 1521.2 | 861.3 | 633.0 | 564.0 | 633.0 | 755.9 | 978.4 | 1101.1 | 1011.0 | 878.6 | 867.1 |
| 80° | 817.2 | 633.0 | 487.2 | 452.8 | 500.7 | 592.8 | 769.3 | 918.9 | 869.0 | 788.4 | 704.0 |
| 82.5° | 539.1 | 410.5 | 360.7 | 351.1 | 381.8 | 452.8 | 571.6 | 761.6 | 761.6 | 675.2 | 491.1 |
| 85° | 278.1 | 251.3 | 247.5 | 247.5 | 266.7 | 301.2 | 389.4 | 587.0 | 625.3 | 356.8 | 295.4 |
| 87.5° | 138.1 | 143.8 | 134.3 | 140.0 | 149.7 | 147.7 | 186.1 | 295.4 | 353.0 | 216.8 | 180.3 |
| 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)