

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: P194818

Luminaire Tested: **GAN-AF-10-LED-U-T3R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194818
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 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: 39689 lumens
Efficiency: N/A
Efficacy: 122.9 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

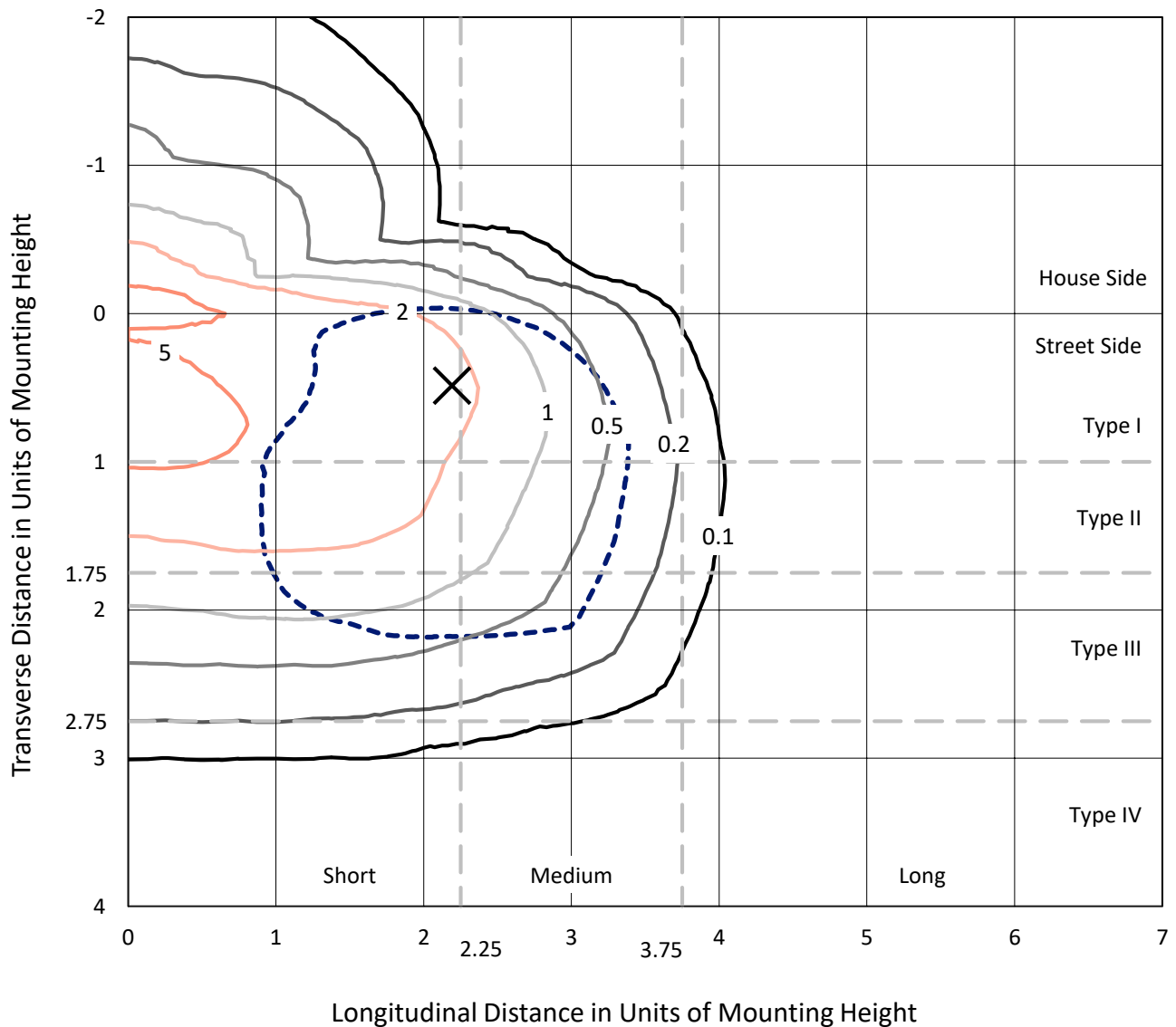
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

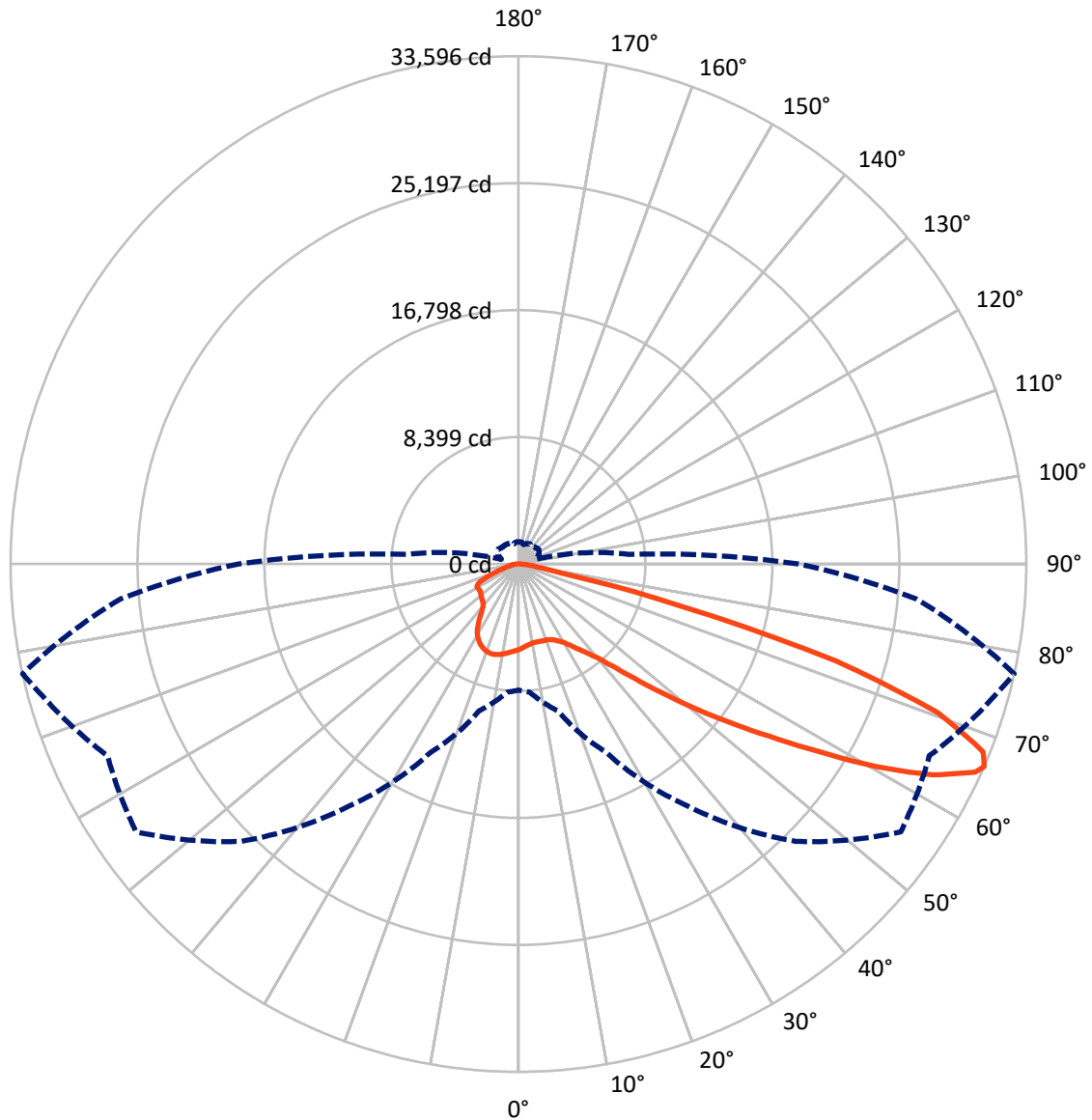
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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 | 6780.6 | 0.0 | 6780.6 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 32908.4 | 0.0 | 32908.4 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 39689.0 | 0.0 | 39689.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 505.3 | 1.3 |
| 10°-20° | 1425.5 | 3.6 |
| 20°-30° | 2432.9 | 6.1 |
| 30°-40° | 3894.7 | 9.8 |
| 40°-50° | 6016.9 | 15.2 |
| 50°-60° | 8534.0 | 21.5 |
| 60°-70° | 11416.2 | 28.8 |
| 70°-80° | 4957.9 | 12.5 |
| 80°-90° | 505.5 | 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° | 39689.0 | 100.0 |
| 0°-180° | 39689.0 | 100.0 |

Coefficient of Utilization



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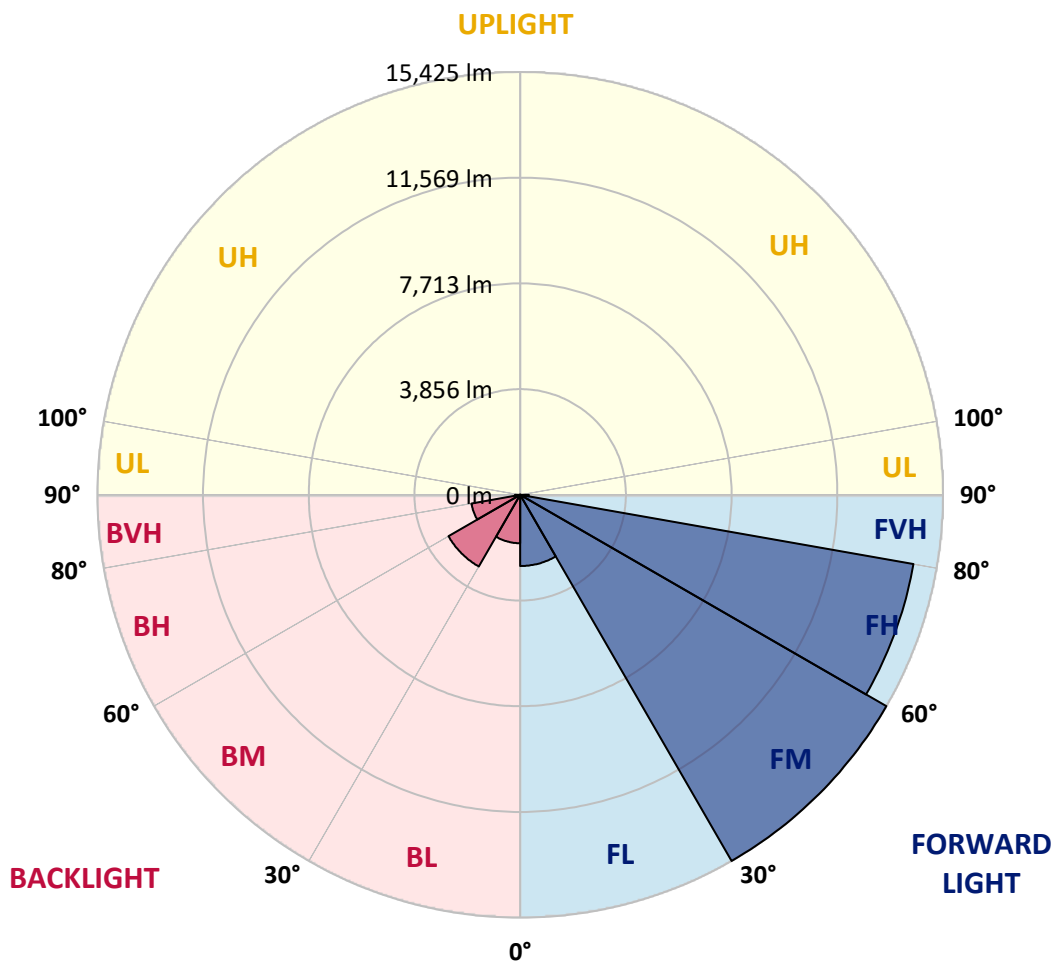
CATALOG NUMBER: GAN-AF-10-LED-U-T3R-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2597.8 | 6.5 | | | |
| FM | (30°-60°) | 15425.2 | 38.9 | | | |
| FH | (60°-80°) | 14568.3 | 36.7 | | | G5 |
| FVH | (80°-90°) | 317.1 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 1766.0 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 3020.4 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 1805.8 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 188.5 | 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° | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 |
| 2.5° | 5003.3 | 5037.0 | 5065.2 | 5091.4 | 5143.9 | 5230.2 | 5329.6 | 5410.2 | 5526.5 | 5549.0 | 5610.9 |
| 5° | 4543.8 | 4543.8 | 4566.3 | 4605.7 | 4677.0 | 4806.4 | 4941.4 | 5121.4 | 5374.6 | 5434.6 | 5599.6 |
| 7.5° | 4320.7 | 4322.5 | 4335.7 | 4369.4 | 4431.3 | 4549.5 | 4697.6 | 4909.5 | 5252.7 | 5352.1 | 5633.4 |
| 10° | 4403.2 | 4384.4 | 4356.3 | 4339.4 | 4348.8 | 4418.2 | 4558.8 | 4795.1 | 5177.7 | 5305.2 | 5708.4 |
| 12.5° | 4864.5 | 4828.9 | 4731.4 | 4602.0 | 4478.2 | 4427.6 | 4510.1 | 4740.7 | 5145.8 | 5293.9 | 5807.8 |
| 15° | 5618.4 | 5603.4 | 5421.5 | 5153.3 | 4853.2 | 4602.0 | 4545.7 | 4720.1 | 5149.5 | 5307.1 | 5925.9 |
| 17.5° | 6563.5 | 6542.9 | 6302.8 | 5912.8 | 5423.3 | 4933.9 | 4671.3 | 4737.0 | 5162.7 | 5329.6 | 6040.3 |
| 20° | 7518.0 | 7454.3 | 7195.5 | 6730.4 | 6102.2 | 5385.8 | 4879.5 | 4780.1 | 5179.5 | 5353.9 | 6160.3 |
| 22.5° | 8230.6 | 8178.1 | 7945.6 | 7493.7 | 6769.8 | 5909.0 | 5158.9 | 4855.1 | 5233.9 | 5425.2 | 6308.5 |
| 25° | 8857.0 | 8860.7 | 8630.1 | 8193.1 | 7444.9 | 6464.1 | 5519.0 | 5055.8 | 5372.7 | 5571.5 | 6511.0 |
| 27.5° | 9631.5 | 9586.5 | 9370.8 | 8937.6 | 8112.5 | 7024.8 | 5954.0 | 5331.4 | 5579.0 | 5779.6 | 6777.3 |
| 30° | 10557.9 | 10526.0 | 10276.6 | 9785.3 | 8853.2 | 7626.8 | 6451.0 | 5652.1 | 5845.3 | 6053.4 | 7126.1 |
| 32.5° | 11647.4 | 11632.4 | 11373.6 | 10741.7 | 9708.4 | 8335.7 | 7034.2 | 6075.9 | 6242.8 | 6458.5 | 7626.8 |
| 35° | 12926.4 | 12928.2 | 12622.6 | 11863.1 | 10644.1 | 9160.8 | 7696.2 | 6621.6 | 6726.7 | 6951.7 | 8223.1 |
| 37.5° | 13714.0 | 13809.6 | 13695.2 | 12920.7 | 11703.7 | 10083.4 | 8555.1 | 7345.5 | 7278.0 | 7504.9 | 8862.6 |
| 40° | 13882.8 | 13999.0 | 14361.0 | 13967.2 | 12888.9 | 11099.8 | 9316.4 | 8041.2 | 7956.9 | 8234.4 | 9685.9 |
| 42.5° | 13646.5 | 13807.8 | 14572.9 | 14850.4 | 14147.2 | 12352.5 | 10340.3 | 9074.5 | 8967.6 | 9340.8 | 10709.8 |
| 45° | 13505.8 | 13625.8 | 14511.0 | 15309.9 | 15238.6 | 13768.4 | 11643.7 | 10372.2 | 10332.8 | 10822.3 | 11891.2 |
| 47.5° | 13262.0 | 13370.8 | 14222.2 | 15416.7 | 15879.9 | 15066.1 | 13209.5 | 11958.7 | 12035.6 | 12677.0 | 13224.5 |
| 50° | 13393.3 | 13438.3 | 13899.6 | 15144.8 | 16065.6 | 16016.8 | 14959.2 | 13796.5 | 14059.0 | 14859.8 | 14734.1 |
| 52.5° | 13374.6 | 13490.8 | 13862.1 | 14698.5 | 16090.0 | 16603.8 | 16682.6 | 15846.2 | 16399.4 | 17318.3 | 16408.8 |
| 55° | 10812.9 | 11026.7 | 13421.4 | 14586.0 | 16176.2 | 17179.5 | 18216.6 | 18006.5 | 19037.9 | 20108.7 | 18299.1 |
| 57.5° | 10325.3 | 10460.4 | 11788.1 | 14822.3 | 16633.8 | 18278.4 | 19923.1 | 20384.4 | 22109.7 | 23353.0 | 20601.9 |
| 60° | 10229.7 | 10396.6 | 11771.2 | 15111.1 | 17562.1 | 20069.3 | 22452.8 | 23263.0 | 25847.1 | 27208.6 | 23272.3 |
| 62.5° | 9931.5 | 10111.6 | 11660.5 | 15073.6 | 18880.4 | 22546.6 | 25691.5 | 26323.4 | 29391.4 | 30715.4 | 25505.8 |
| 65° | 8986.4 | 9155.2 | 10758.5 | 14467.9 | 19769.3 | 25190.8 | 29524.5 | 29128.9 | 32189.3 | 33185.1 | 26619.7 |
| 66° | 8339.4 | 8504.4 | 10047.8 | 13755.2 | 19563.0 | 25940.9 | 30882.3 | 29997.1 | 32815.7 | 33595.8 | 26402.2 |
| 67.5° | 7156.1 | 7285.5 | 8667.6 | 12159.4 | 18466.0 | 26150.9 | 32024.3 | 30649.7 | 32881.3 | 33157.0 | 25158.9 |
| 70° | 4521.3 | 4558.8 | 5633.4 | 8393.8 | 13978.4 | 22679.7 | 30285.9 | 29029.5 | 30169.6 | 29423.3 | 21091.4 |
| 72.5° | 1961.6 | 1948.4 | 2704.2 | 4270.0 | 7913.7 | 15218.0 | 24498.8 | 23953.1 | 23666.1 | 21963.4 | 14764.1 |
| 75° | 1091.4 | 1106.4 | 1404.6 | 1982.2 | 3216.1 | 7474.9 | 16026.2 | 15336.1 | 12948.9 | 11049.2 | 6694.8 |
| 77.5° | 875.8 | 896.4 | 1164.6 | 1406.5 | 1444.0 | 2606.7 | 7499.3 | 6102.2 | 3673.7 | 2948.0 | 1860.3 |
| 80° | 692.0 | 729.5 | 1016.4 | 1095.2 | 973.3 | 1074.5 | 2422.9 | 1937.2 | 1453.3 | 1333.3 | 963.9 |
| 82.5° | 547.6 | 573.8 | 872.0 | 828.9 | 680.7 | 723.9 | 1160.8 | 1130.8 | 945.1 | 860.8 | 557.0 |
| 85° | 393.8 | 442.6 | 716.4 | 624.5 | 446.3 | 487.6 | 770.7 | 738.9 | 542.0 | 442.6 | 245.7 |
| 87.5° | 161.3 | 210.0 | 506.3 | 414.4 | 249.4 | 226.9 | 384.4 | 361.9 | 256.9 | 187.5 | 121.9 |
| 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° | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 | 5655.9 |
| 2.5° | 5650.2 | 5695.3 | 5753.4 | 5789.0 | 5807.8 | 5820.9 | 5841.5 | 5839.6 | 5845.3 | 5847.2 | 5854.7 |
| 5° | 5687.8 | 5762.8 | 5847.2 | 5869.7 | 5869.7 | 5849.0 | 5828.4 | 5794.6 | 5781.5 | 5777.8 | 5781.5 |
| 7.5° | 5785.3 | 5867.8 | 5940.9 | 5914.7 | 5858.4 | 5775.9 | 5669.0 | 5575.2 | 5524.6 | 5507.7 | 5504.0 |
| 10° | 5909.0 | 6008.4 | 6038.4 | 5939.0 | 5774.0 | 5575.2 | 5363.3 | 5209.6 | 5121.4 | 5097.0 | 5089.5 |
| 12.5° | 6059.1 | 6152.8 | 6111.6 | 5901.5 | 5595.9 | 5275.2 | 4982.6 | 4737.0 | 4553.2 | 4495.1 | 4491.3 |
| 15° | 6224.1 | 6297.2 | 6152.8 | 5785.3 | 5329.6 | 4857.0 | 4335.7 | 3911.9 | 3683.1 | 3609.9 | 3604.3 |
| 17.5° | 6377.9 | 6415.4 | 6128.4 | 5582.7 | 4937.6 | 4172.5 | 3480.5 | 3154.2 | 3075.5 | 3094.2 | 3098.0 |
| 20° | 6509.1 | 6509.1 | 6045.9 | 5292.1 | 4320.7 | 3270.5 | 2833.6 | 2827.9 | 2884.2 | 2940.5 | 2951.7 |
| 22.5° | 6653.5 | 6567.3 | 5901.5 | 4881.4 | 3446.8 | 2676.0 | 2612.3 | 2664.8 | 2728.5 | 2790.4 | 2799.8 |
| 25° | 6831.7 | 6614.1 | 5700.9 | 4258.8 | 2709.8 | 2430.4 | 2454.8 | 2497.9 | 2529.8 | 2569.1 | 2574.8 |
| 27.5° | 7030.5 | 6674.2 | 5436.5 | 3401.8 | 2351.6 | 2276.6 | 2295.4 | 2310.4 | 2306.6 | 2321.6 | 2325.4 |
| 30° | 7268.6 | 6743.5 | 5074.5 | 2659.2 | 2203.5 | 2145.3 | 2111.6 | 2098.4 | 2098.4 | 2122.8 | 2132.2 |
| 32.5° | 7587.4 | 6846.7 | 4555.1 | 2278.5 | 2132.2 | 2051.6 | 1942.8 | 1894.0 | 1912.8 | 1995.3 | 2014.1 |
| 35° | 7938.1 | 6957.3 | 3851.8 | 2149.1 | 2117.2 | 2008.4 | 1839.7 | 1749.6 | 1751.5 | 1828.4 | 1852.8 |
| 37.5° | 8320.7 | 7098.0 | 3081.1 | 2124.7 | 2151.0 | 2010.3 | 1785.3 | 1661.5 | 1610.9 | 1610.9 | 1620.2 |
| 40° | 8810.1 | 7242.4 | 2494.1 | 2141.6 | 2222.2 | 2032.8 | 1757.1 | 1592.1 | 1449.6 | 1453.3 | 1460.9 |
| 42.5° | 9447.7 | 7366.1 | 2179.1 | 2177.2 | 2308.5 | 2062.8 | 1755.3 | 1500.2 | 1376.5 | 1460.9 | 1537.7 |
| 45° | 10156.6 | 7428.0 | 2040.3 | 2209.1 | 2377.9 | 2081.6 | 1725.3 | 1485.2 | 1385.8 | 1637.1 | 1783.4 |
| 47.5° | 10972.3 | 7392.4 | 1963.4 | 2220.3 | 2394.7 | 2081.6 | 1691.5 | 1520.9 | 1451.5 | 1895.9 | 2066.6 |
| 50° | 11866.8 | 7289.2 | 1888.4 | 2197.8 | 2389.1 | 2077.8 | 1723.4 | 1556.5 | 1475.9 | 1940.9 | 2059.1 |
| 52.5° | 12918.9 | 7203.0 | 1809.7 | 2149.1 | 2349.7 | 2057.2 | 1760.9 | 1541.5 | 1399.0 | 1764.6 | 1847.2 |
| 55° | 14119.0 | 7227.4 | 1721.5 | 2079.7 | 2287.9 | 2017.8 | 1747.8 | 1481.5 | 1318.3 | 1554.6 | 1605.2 |
| 57.5° | 15653.0 | 7518.0 | 1616.5 | 1991.6 | 2203.5 | 1952.2 | 1700.9 | 1453.3 | 1293.9 | 1410.2 | 1440.2 |
| 60° | 17365.2 | 8024.4 | 1485.2 | 1903.4 | 2098.4 | 1847.2 | 1665.3 | 1466.5 | 1305.2 | 1399.0 | 1414.0 |
| 62.5° | 18621.6 | 8318.8 | 1372.7 | 1774.0 | 1955.9 | 1730.9 | 1620.2 | 1483.4 | 1335.2 | 1438.3 | 1434.6 |
| 65° | 18962.9 | 7835.0 | 1232.1 | 1584.6 | 1762.8 | 1609.0 | 1564.0 | 1502.1 | 1348.3 | 1470.2 | 1453.3 |
| 66° | 18484.7 | 7313.6 | 1170.2 | 1496.5 | 1665.3 | 1549.0 | 1535.9 | 1500.2 | 1342.7 | 1474.0 | 1445.8 |
| 67.5° | 17323.9 | 6244.7 | 1063.3 | 1367.1 | 1509.6 | 1459.0 | 1490.9 | 1483.4 | 1327.7 | 1470.2 | 1430.8 |
| 70° | 14128.4 | 4260.7 | 909.5 | 1138.3 | 1256.4 | 1284.6 | 1404.6 | 1423.3 | 1278.9 | 1404.6 | 1318.3 |
| 72.5° | 9871.5 | 2595.4 | 804.5 | 883.3 | 1016.4 | 1095.2 | 1286.4 | 1340.8 | 1213.3 | 1226.4 | 1143.9 |
| 75° | 4770.7 | 1378.3 | 729.5 | 684.5 | 789.5 | 915.1 | 1143.9 | 1228.3 | 1110.2 | 1025.8 | 995.8 |
| 77.5° | 1487.1 | 842.0 | 618.8 | 551.3 | 618.8 | 738.9 | 956.4 | 1076.4 | 988.3 | 858.9 | 847.6 |
| 80° | 798.9 | 618.8 | 476.3 | 442.6 | 489.5 | 579.5 | 752.0 | 898.3 | 849.5 | 770.7 | 688.2 |
| 82.5° | 527.0 | 401.3 | 352.6 | 343.2 | 373.2 | 442.6 | 558.8 | 744.5 | 744.5 | 660.1 | 480.1 |
| 85° | 271.9 | 245.7 | 241.9 | 241.9 | 260.7 | 294.4 | 380.7 | 573.8 | 611.3 | 348.8 | 288.8 |
| 87.5° | 135.0 | 140.6 | 131.3 | 136.9 | 146.3 | 144.4 | 181.9 | 288.8 | 345.1 | 211.9 | 176.3 |
| 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)