

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: P191364

Luminaire Tested: **GAN-AF-06-LED-U-T2-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T2-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28874.8 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

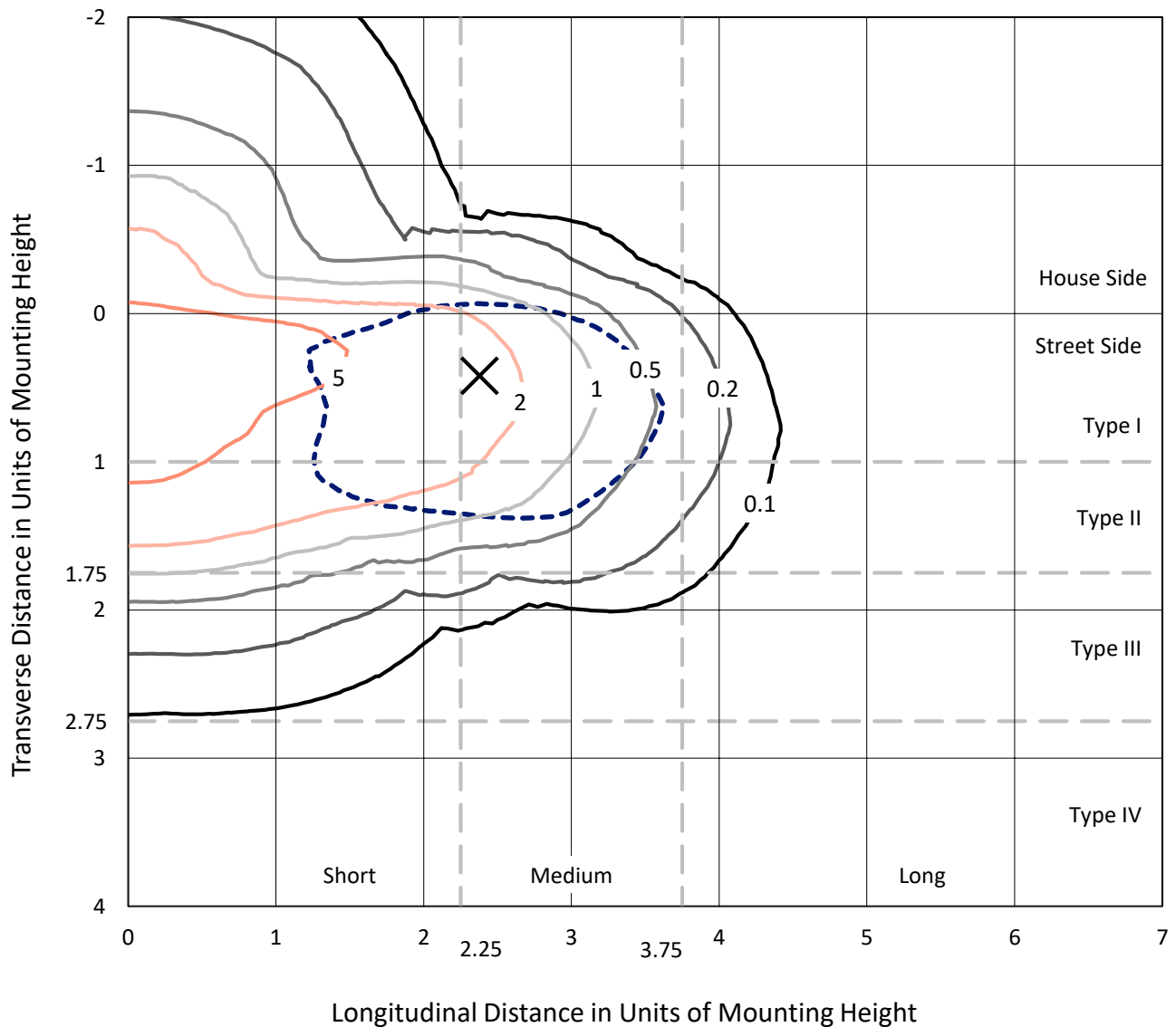
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

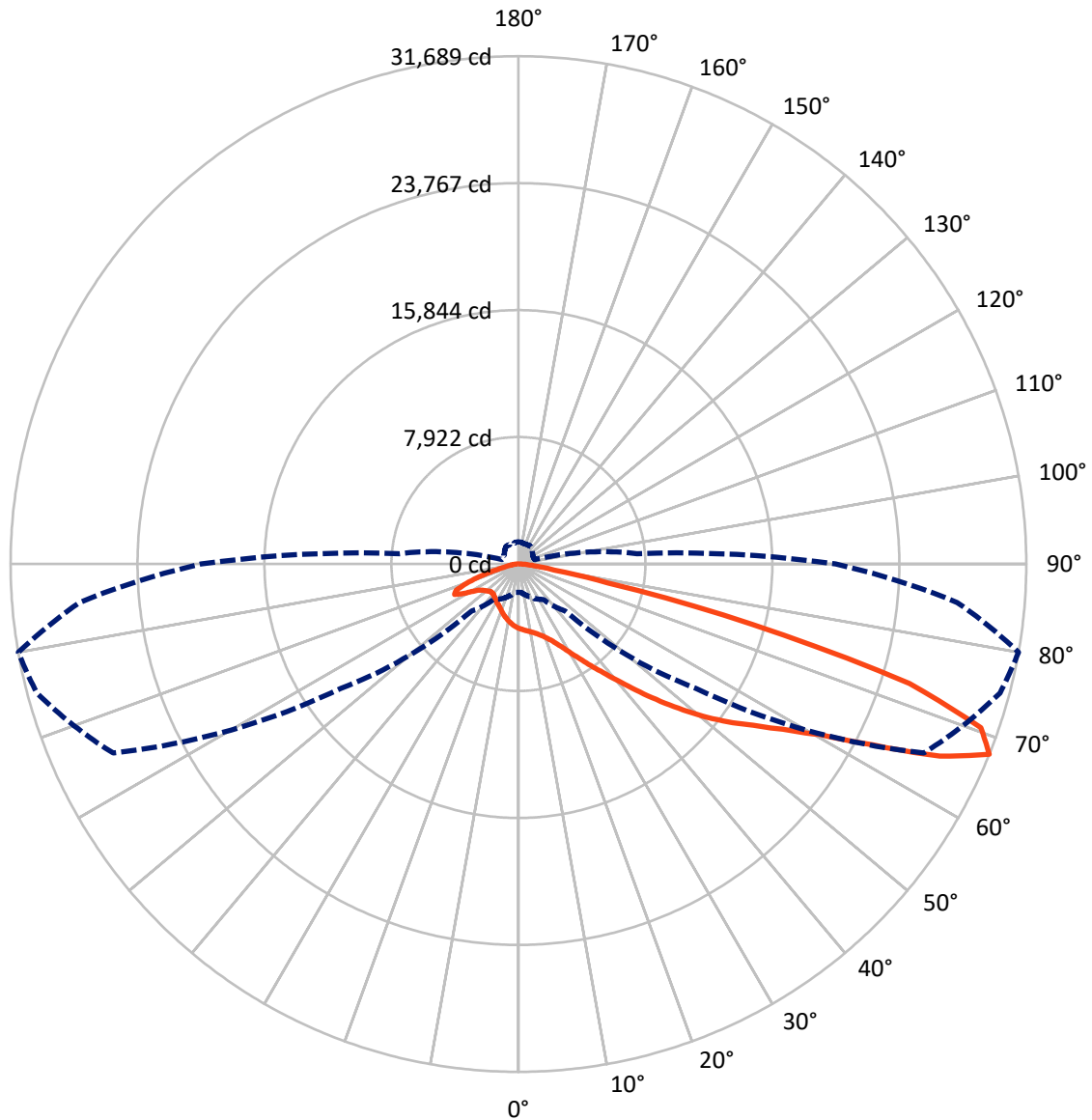


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5317.6 | 0.0 | 5317.6 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 23557.2 | 0.0 | 23557.2 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 28874.8 | 0.0 | 28874.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 370.0 | 1.3 |
| 10°-20° | 1066.0 | 3.7 |
| 20°-30° | 1764.5 | 6.1 |
| 30°-40° | 2886.2 | 10.0 |
| 40°-50° | 4660.1 | 16.1 |
| 50°-60° | 6727.8 | 23.3 |
| 60°-70° | 7424.5 | 25.7 |
| 70°-80° | 3422.2 | 11.9 |
| 80°-90° | 553.5 | 1.9 |
| 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° | 28874.8 | 100.0 |
| 0°-180° | 28874.8 | 100.0 |



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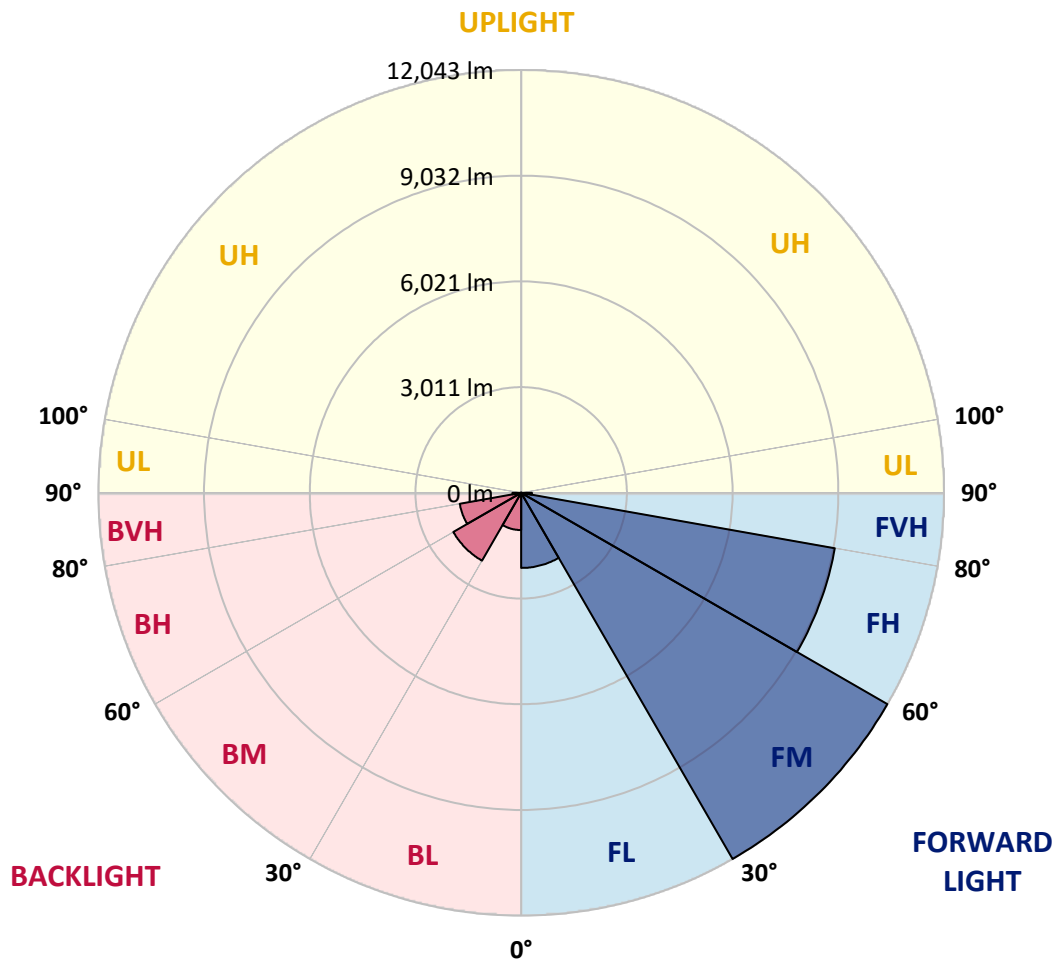
CATALOG NUMBER: GAN-AF-06-LED-U-T2-800-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2139.6 | 7.4 | | | |
| FM | (30°-60°) | 12043.0 | 41.7 | | | |
| FH | (60°-80°) | 9070.3 | 31.4 | | | G4/12000 |
| FVH | (80°-90°) | 304.3 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1060.9 | 3.7 | B3/2500 | | |
| BM | (30°-60°) | 2231.1 | 7.7 | B2/2500 | | |
| BH | (60°-80°) | 1776.4 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 249.2 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 |
| 2.5° | 4388.3 | 4362.7 | 4367.0 | 4359.8 | 4338.5 | 4301.5 | 4261.7 | 4189.3 | 4113.9 | 4074.1 | 4042.8 |
| 5° | 4755.0 | 4747.9 | 4738.0 | 4715.2 | 4661.2 | 4584.5 | 4489.2 | 4361.2 | 4223.4 | 4150.8 | 4081.2 |
| 7.5° | 5029.3 | 5025.1 | 5012.4 | 4998.1 | 4945.5 | 4853.1 | 4709.6 | 4527.6 | 4327.2 | 4227.7 | 4119.6 |
| 10° | 5052.1 | 5059.2 | 5069.1 | 5107.6 | 5114.7 | 5064.9 | 4918.4 | 4698.1 | 4435.2 | 4307.2 | 4169.3 |
| 12.5° | 4858.8 | 4874.5 | 4912.8 | 5010.9 | 5114.7 | 5175.8 | 5100.4 | 4877.2 | 4561.6 | 4406.8 | 4231.8 |
| 15° | 4602.9 | 4611.5 | 4658.3 | 4793.4 | 4979.6 | 5168.7 | 5239.8 | 5074.9 | 4725.1 | 4534.6 | 4325.8 |
| 17.5° | 4493.4 | 4497.7 | 4530.4 | 4620.0 | 4793.4 | 5063.5 | 5317.9 | 5289.5 | 4925.6 | 4693.9 | 4440.8 |
| 20° | 4438.0 | 4448.0 | 4494.8 | 4583.0 | 4692.5 | 4928.5 | 5329.3 | 5521.2 | 5164.4 | 4892.9 | 4585.9 |
| 22.5° | 4595.8 | 4591.5 | 4608.6 | 4652.7 | 4745.1 | 4887.2 | 5320.8 | 5760.0 | 5468.6 | 5148.8 | 4774.9 |
| 25° | 4964.0 | 4979.6 | 4949.8 | 4900.0 | 4929.9 | 5029.3 | 5366.3 | 6018.7 | 5849.5 | 5477.2 | 5022.3 |
| 27.5° | 5488.5 | 5472.9 | 5428.8 | 5312.3 | 5251.1 | 5293.8 | 5517.0 | 6297.4 | 6323.0 | 5909.3 | 5349.2 |
| 30° | 6011.7 | 5998.9 | 5956.2 | 5814.0 | 5688.9 | 5653.4 | 5809.7 | 6617.3 | 6887.3 | 6428.1 | 5750.1 |
| 32.5° | 6554.7 | 6540.4 | 6500.6 | 6358.5 | 6207.8 | 6125.3 | 6226.3 | 6986.9 | 7552.5 | 7047.9 | 6222.0 |
| 35° | 7224.2 | 7197.2 | 7113.3 | 6915.8 | 6767.9 | 6703.9 | 6750.9 | 7451.7 | 8320.2 | 7781.5 | 6795.0 |
| 37.5° | 7853.9 | 7895.1 | 7809.9 | 7536.9 | 7345.0 | 7322.3 | 7374.9 | 8018.8 | 9147.5 | 8601.7 | 7453.1 |
| 40° | 8486.5 | 8493.7 | 8416.8 | 8193.7 | 7996.1 | 7959.2 | 8091.3 | 8706.8 | 10124.1 | 9582.5 | 8253.4 |
| 42.5° | 9140.5 | 9154.7 | 9025.3 | 8819.2 | 8674.2 | 8681.3 | 8832.0 | 9512.8 | 11244.3 | 10738.2 | 9174.5 |
| 45° | 9915.2 | 9936.5 | 9794.3 | 9524.3 | 9392.0 | 9657.9 | 9595.3 | 10416.9 | 12472.5 | 12051.7 | 10232.2 |
| 47.5° | 10725.4 | 10758.2 | 10650.0 | 10397.1 | 10232.2 | 10597.5 | 10358.7 | 11419.1 | 13794.5 | 13460.5 | 11393.5 |
| 50° | 11167.6 | 11214.4 | 11319.7 | 11301.2 | 11265.7 | 11204.5 | 11210.2 | 12493.8 | 15157.8 | 14927.5 | 12587.6 |
| 52.5° | 10930.1 | 10928.7 | 11312.5 | 11778.8 | 12276.3 | 12313.3 | 12247.9 | 13626.7 | 16431.5 | 16361.8 | 13712.0 |
| 55° | 9844.1 | 9918.0 | 10499.4 | 11402.1 | 12761.1 | 13609.7 | 13803.1 | 14924.6 | 17682.4 | 17763.4 | 14853.6 |
| 57.5° | 8035.9 | 8097.1 | 8881.7 | 10139.8 | 12107.1 | 14380.2 | 16014.9 | 16811.0 | 19081.2 | 19459.3 | 16373.1 |
| 60° | 5450.2 | 5524.0 | 6355.7 | 7866.7 | 10347.4 | 13950.9 | 18120.2 | 20177.2 | 20755.8 | 21615.8 | 18505.5 |
| 62.5° | 3202.7 | 3269.6 | 3947.6 | 4962.5 | 7285.4 | 11956.5 | 19044.2 | 24966.3 | 23415.4 | 24869.7 | 21758.0 |
| 65° | 2204.8 | 2250.3 | 2580.1 | 3089.0 | 4186.4 | 8053.0 | 17898.5 | 28272.8 | 27508.0 | 28901.1 | 25529.3 |
| 67.5° | 1774.1 | 1768.4 | 2029.9 | 2376.8 | 2695.2 | 4152.3 | 13534.4 | 27898.9 | 31107.3 | 31688.8 | 27486.7 |
| 70° | 1461.3 | 1455.7 | 1633.3 | 1920.5 | 2153.6 | 2338.5 | 7372.0 | 23543.3 | 30373.8 | 30609.8 | 25684.1 |
| 72.5° | 1222.5 | 1228.2 | 1341.9 | 1555.2 | 1766.9 | 1761.3 | 3239.7 | 16562.2 | 23894.5 | 25526.4 | 20474.3 |
| 75° | 1032.1 | 1034.9 | 1110.2 | 1260.9 | 1434.3 | 1418.7 | 1757.0 | 8972.7 | 13889.7 | 15025.5 | 11349.4 |
| 77.5° | 878.5 | 881.4 | 929.7 | 1013.5 | 1137.2 | 1131.5 | 1282.3 | 3876.5 | 5794.2 | 5723.1 | 3882.2 |
| 80° | 783.3 | 783.3 | 806.0 | 821.6 | 889.9 | 864.3 | 951.0 | 1862.2 | 2449.3 | 2261.6 | 1549.5 |
| 82.5° | 614.1 | 616.9 | 756.3 | 750.5 | 700.8 | 668.1 | 668.1 | 1097.4 | 1297.8 | 1199.8 | 906.9 |
| 85° | 345.5 | 344.0 | 487.5 | 588.5 | 616.9 | 470.6 | 466.3 | 614.1 | 706.4 | 622.7 | 439.3 |
| 87.5° | 147.8 | 150.7 | 226.1 | 261.6 | 349.7 | 292.9 | 288.6 | 317.0 | 359.7 | 311.3 | 203.3 |
| 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° | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 | 4011.6 |
| 2.5° | 4012.9 | 3976.0 | 3895.0 | 3794.0 | 3703.1 | 3643.3 | 3589.3 | 3511.2 | 3515.5 | 3461.5 | 3421.7 |
| 5° | 4010.2 | 3933.3 | 3745.7 | 3522.5 | 3307.9 | 3152.9 | 3036.4 | 2931.2 | 2905.6 | 2855.9 | 2826.0 |
| 7.5° | 4012.9 | 3887.9 | 3572.3 | 3215.5 | 2949.7 | 2753.5 | 2653.9 | 2598.6 | 2585.7 | 2568.7 | 2570.2 |
| 10° | 4023.0 | 3846.7 | 3381.8 | 2928.3 | 2649.7 | 2520.3 | 2496.2 | 2513.3 | 2533.1 | 2538.9 | 2540.3 |
| 12.5° | 4045.7 | 3809.7 | 3172.9 | 2672.5 | 2462.0 | 2422.2 | 2463.5 | 2521.8 | 2560.1 | 2578.7 | 2577.2 |
| 15° | 4096.8 | 3781.2 | 2972.4 | 2472.1 | 2358.3 | 2379.6 | 2456.4 | 2538.9 | 2594.3 | 2619.9 | 2621.3 |
| 17.5° | 4152.3 | 3740.0 | 2766.3 | 2318.5 | 2281.6 | 2335.6 | 2430.8 | 2527.5 | 2595.7 | 2624.2 | 2629.8 |
| 20° | 4224.8 | 3688.9 | 2550.2 | 2203.3 | 2209.1 | 2270.1 | 2359.7 | 2456.4 | 2531.7 | 2555.9 | 2567.3 |
| 22.5° | 4320.0 | 3633.4 | 2361.2 | 2109.5 | 2126.6 | 2173.6 | 2243.1 | 2327.0 | 2392.5 | 2403.8 | 2413.8 |
| 25° | 4448.0 | 3573.7 | 2210.5 | 2024.2 | 2031.4 | 2058.4 | 2105.3 | 2155.1 | 2200.6 | 2187.7 | 2197.7 |
| 27.5° | 4620.0 | 3522.5 | 2098.2 | 1946.1 | 1933.3 | 1939.0 | 1963.1 | 1978.8 | 2002.9 | 1967.4 | 1971.6 |
| 30° | 4821.8 | 3467.1 | 2011.4 | 1877.8 | 1842.3 | 1832.3 | 1838.0 | 1846.5 | 1865.0 | 1816.8 | 1809.6 |
| 32.5° | 5056.3 | 3400.3 | 1930.4 | 1818.1 | 1768.4 | 1748.5 | 1751.3 | 1774.1 | 1845.1 | 1815.3 | 1799.7 |
| 35° | 5329.3 | 3325.0 | 1845.1 | 1752.7 | 1718.7 | 1690.2 | 1687.4 | 1758.5 | 1970.2 | 1951.8 | 1937.6 |
| 37.5° | 5649.1 | 3249.6 | 1759.9 | 1678.9 | 1681.6 | 1650.4 | 1640.4 | 1721.4 | 1994.4 | 1921.9 | 1912.0 |
| 40° | 6055.7 | 3209.8 | 1687.4 | 1600.6 | 1636.2 | 1631.9 | 1612.0 | 1653.2 | 1835.2 | 1703.0 | 1685.9 |
| 42.5° | 6559.0 | 3215.5 | 1633.3 | 1516.7 | 1582.2 | 1627.6 | 1596.4 | 1597.8 | 1663.2 | 1563.7 | 1548.0 |
| 45° | 7180.1 | 3282.3 | 1595.0 | 1449.9 | 1521.0 | 1623.4 | 1590.7 | 1568.0 | 1573.6 | 1521.0 | 1512.5 |
| 47.5° | 7905.2 | 3420.2 | 1568.0 | 1394.5 | 1462.7 | 1607.8 | 1589.3 | 1559.4 | 1546.6 | 1518.2 | 1511.1 |
| 50° | 8711.1 | 3620.6 | 1548.0 | 1341.9 | 1410.1 | 1582.2 | 1590.7 | 1550.9 | 1536.7 | 1525.3 | 1521.0 |
| 52.5° | 9502.9 | 3849.5 | 1518.2 | 1296.4 | 1368.9 | 1550.9 | 1595.0 | 1542.4 | 1526.8 | 1518.2 | 1514.0 |
| 55° | 10385.7 | 4135.2 | 1472.7 | 1258.0 | 1334.8 | 1511.1 | 1595.0 | 1529.5 | 1512.5 | 1514.0 | 1512.5 |
| 57.5° | 11578.4 | 4597.2 | 1418.7 | 1225.4 | 1293.6 | 1462.7 | 1568.0 | 1515.4 | 1494.0 | 1495.5 | 1496.9 |
| 60° | 13442.0 | 5411.7 | 1353.3 | 1192.7 | 1242.4 | 1405.8 | 1530.9 | 1484.1 | 1462.7 | 1468.4 | 1469.9 |
| 62.5° | 16182.7 | 6607.2 | 1268.0 | 1144.4 | 1188.4 | 1344.8 | 1479.8 | 1444.3 | 1422.9 | 1437.1 | 1437.1 |
| 65° | 19031.4 | 7662.0 | 1162.8 | 1083.2 | 1131.5 | 1278.0 | 1415.9 | 1394.5 | 1373.2 | 1405.8 | 1404.5 |
| 67.5° | 19797.7 | 7426.1 | 1057.6 | 1016.4 | 1074.7 | 1204.0 | 1339.0 | 1327.7 | 1316.3 | 1373.2 | 1370.3 |
| 70° | 17587.2 | 5961.9 | 961.0 | 948.2 | 1012.1 | 1124.4 | 1256.6 | 1256.6 | 1249.5 | 1292.2 | 1282.3 |
| 72.5° | 13399.3 | 4227.7 | 868.6 | 875.6 | 941.0 | 1037.7 | 1167.1 | 1177.0 | 1165.7 | 1186.9 | 1178.4 |
| 75° | 7173.0 | 2419.5 | 776.1 | 796.1 | 852.9 | 949.6 | 1067.6 | 1077.5 | 1070.4 | 1069.0 | 1073.3 |
| 77.5° | 2383.9 | 1182.7 | 679.4 | 710.7 | 760.6 | 858.6 | 963.8 | 979.5 | 962.4 | 959.5 | 958.1 |
| 80° | 1061.9 | 743.5 | 572.9 | 614.1 | 658.2 | 754.8 | 854.4 | 867.2 | 848.6 | 874.2 | 841.6 |
| 82.5° | 682.3 | 489.0 | 459.2 | 504.6 | 547.3 | 651.1 | 744.9 | 747.7 | 730.7 | 848.6 | 723.5 |
| 85° | 331.2 | 302.8 | 345.5 | 386.7 | 423.6 | 511.8 | 616.9 | 618.4 | 575.7 | 524.6 | 506.1 |
| 87.5° | 164.9 | 176.3 | 230.3 | 267.3 | 285.7 | 351.1 | 449.2 | 440.7 | 422.2 | 383.8 | 353.9 |
| 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)