

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: P267219

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47431.1 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

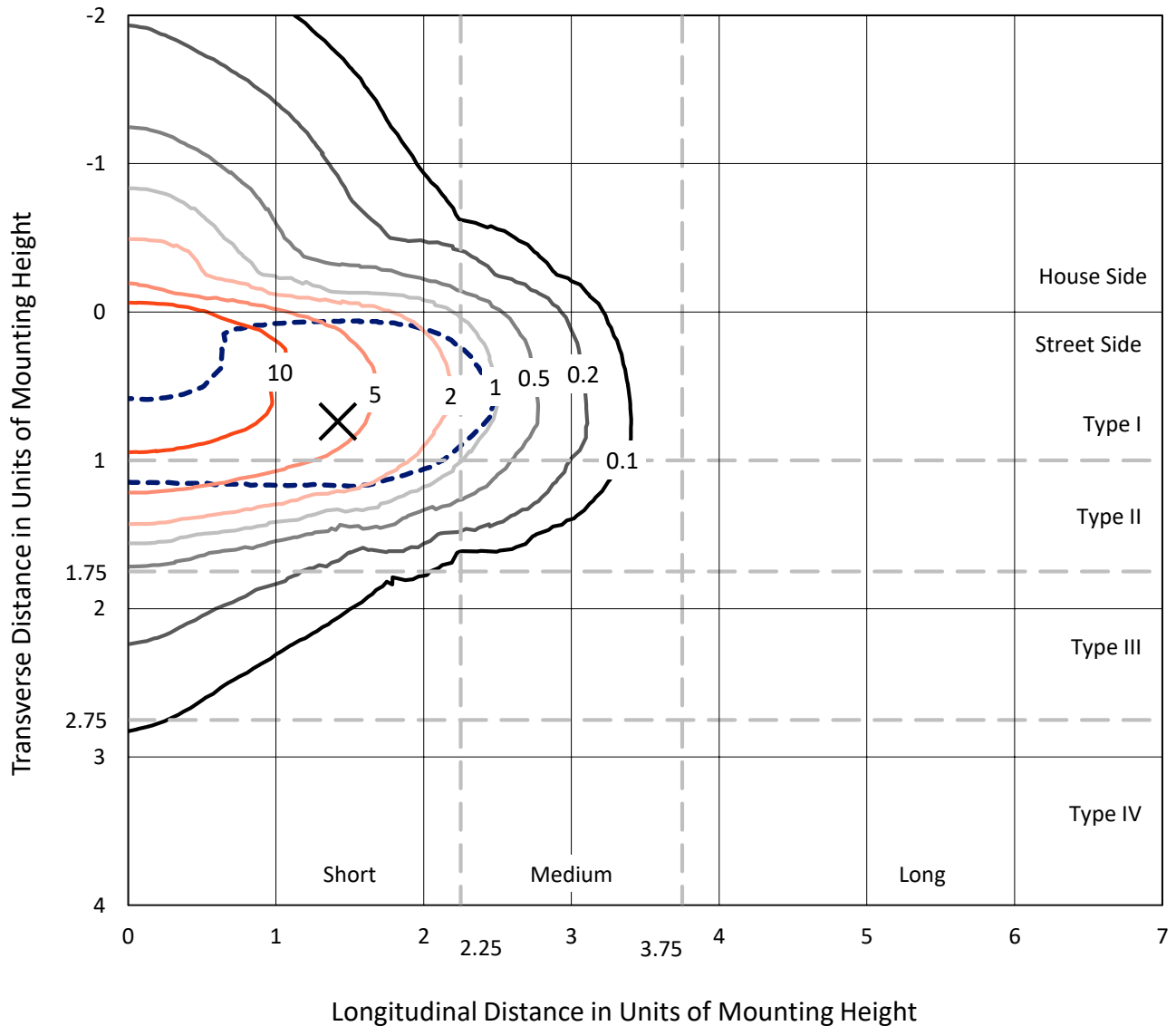
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

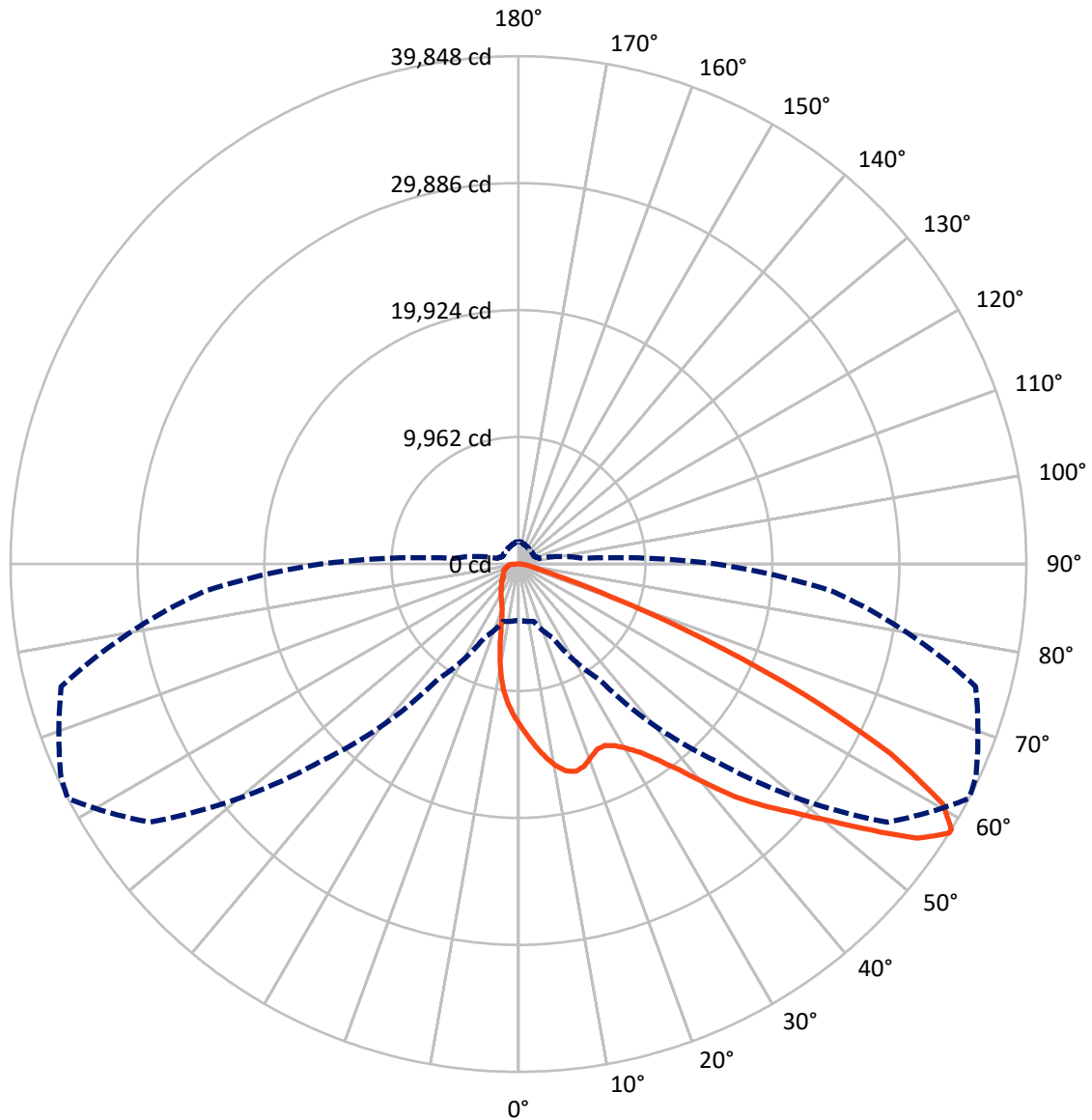
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7233.4 | 0.0 | 7233.4 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 40197.7 | 0.0 | 40197.7 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 47431.1 | 0.0 | 47431.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1126.8 | 2.4 |
| 10°-20° | 2880.3 | 6.1 |
| 20°-30° | 4656.1 | 9.8 |
| 30°-40° | 7391.5 | 15.6 |
| 40°-50° | 10815.3 | 22.8 |
| 50°-60° | 11311.9 | 23.8 |
| 60°-70° | 6683.1 | 14.1 |
| 70°-80° | 1882.7 | 4.0 |
| 80°-90° | 683.5 | 1.4 |
| 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° | 47431.1 | 100.0 |
| 0°-180° | 47431.1 | 100.0 |

Coefficient of Utilization



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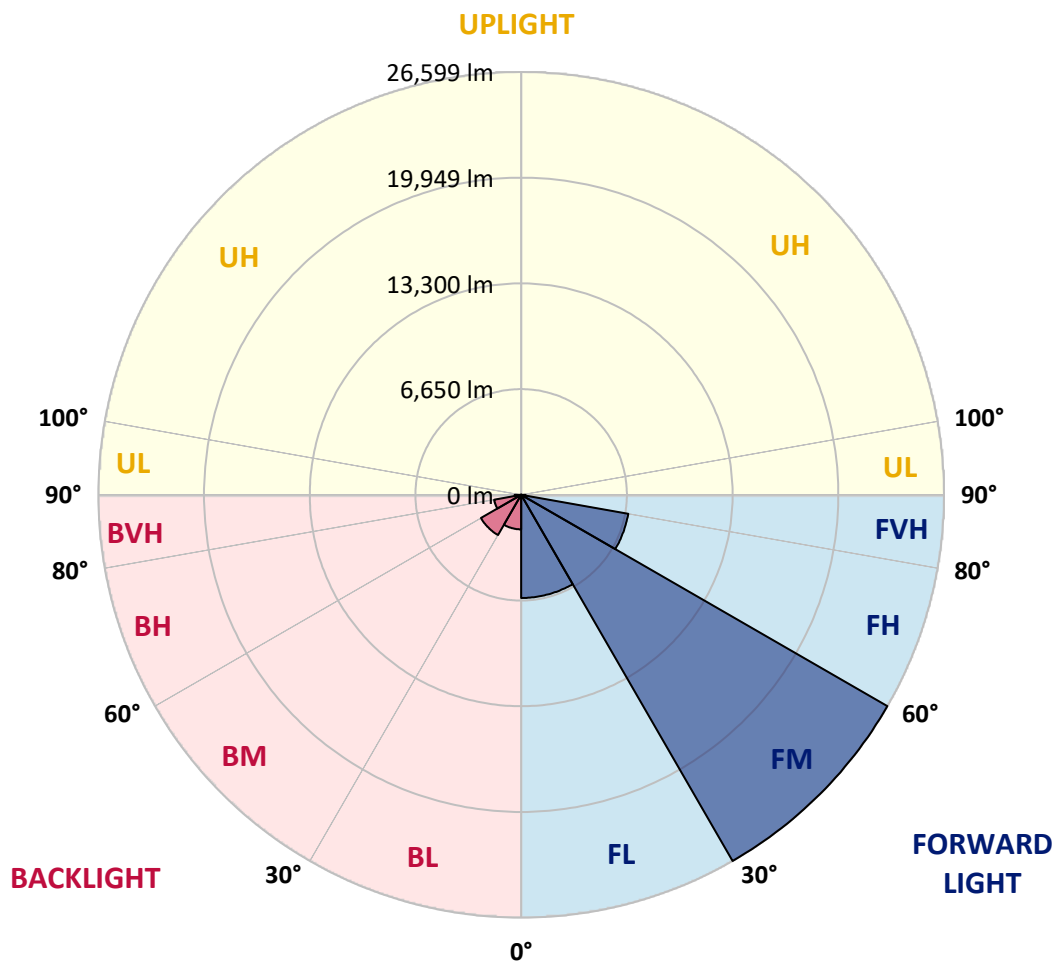
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6489.2 | 13.7 | | | |
| FM (30°-60°) | 26599.1 | 56.1 | | | |
| FH (60°-80°) | 6839.8 | 14.4 | | | G3/7500 |
| FVH (80°-90°) | 269.6 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2174.0 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 2919.6 | 6.2 | B3/5000 | | |
| BH (60°-80°) | 1726.0 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 413.9 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 |
| 2.5° | 14397.0 | 14281.0 | 14207.2 | 14142.5 | 14057.5 | 13876.7 | 13633.1 | 13479.1 | 13400.9 | 13135.1 | 12820.3 |
| 5° | 15808.6 | 15705.8 | 15629.9 | 15542.8 | 15391.0 | 15107.2 | 14714.1 | 14401.4 | 14247.4 | 13715.9 | 13086.0 |
| 7.5° | 15478.1 | 15520.5 | 15652.2 | 15882.4 | 16078.9 | 16040.9 | 15690.2 | 15292.7 | 15089.4 | 14350.2 | 13394.2 |
| 10° | 13485.7 | 13559.5 | 13787.4 | 14325.6 | 15196.6 | 16090.0 | 16362.5 | 16087.7 | 15882.4 | 14977.8 | 13711.4 |
| 12.5° | 13086.0 | 13083.8 | 13101.6 | 13244.6 | 13762.8 | 15020.2 | 16384.8 | 16661.9 | 16539.0 | 15576.3 | 14035.2 |
| 15° | 13249.0 | 13253.6 | 13240.1 | 13300.5 | 13461.2 | 13959.3 | 15701.5 | 16882.9 | 16970.1 | 16179.4 | 14370.2 |
| 17.5° | 13677.9 | 13666.8 | 13615.3 | 13615.3 | 13673.5 | 13867.8 | 14897.3 | 16677.5 | 17079.5 | 16713.1 | 14665.1 |
| 20° | 14397.0 | 14345.8 | 14209.4 | 14084.3 | 14021.9 | 14126.7 | 14566.7 | 16203.9 | 16889.7 | 17179.9 | 14908.5 |
| 22.5° | 15268.1 | 15227.9 | 15006.7 | 14738.9 | 14522.1 | 14519.9 | 14736.5 | 15790.8 | 16561.3 | 17620.0 | 15114.1 |
| 25° | 16393.8 | 16329.0 | 16000.7 | 15571.8 | 15192.1 | 15047.0 | 15107.2 | 15770.6 | 16382.6 | 18098.0 | 15297.1 |
| 27.5° | 17716.1 | 17597.6 | 17209.0 | 16590.3 | 16032.1 | 15739.5 | 15652.2 | 16134.6 | 16545.7 | 18689.9 | 15551.7 |
| 30° | 19319.7 | 19183.5 | 18685.4 | 17879.1 | 17090.7 | 16610.4 | 16425.1 | 16780.2 | 17086.2 | 19411.3 | 15960.5 |
| 32.5° | 21144.5 | 20947.8 | 20371.7 | 19482.7 | 18446.3 | 17713.8 | 17412.2 | 17633.4 | 17876.8 | 20280.0 | 16472.0 |
| 35° | 23666.0 | 23431.5 | 22598.4 | 21372.3 | 20202.0 | 19194.5 | 18712.1 | 18873.0 | 19109.7 | 21575.5 | 17211.3 |
| 37.5° | 25385.8 | 25280.8 | 24726.9 | 23574.5 | 22301.3 | 21142.1 | 20396.1 | 20490.0 | 20623.9 | 23194.7 | 18158.2 |
| 40° | 25370.2 | 25412.6 | 25423.8 | 25435.0 | 24568.4 | 23458.2 | 22656.5 | 22558.1 | 22531.4 | 24972.6 | 19234.8 |
| 42.5° | 24099.3 | 24273.6 | 24836.3 | 25977.6 | 26504.9 | 25995.5 | 25260.8 | 24977.1 | 24836.3 | 27067.5 | 20376.2 |
| 45° | 22154.0 | 22247.8 | 23301.9 | 25531.0 | 27496.5 | 28508.3 | 27952.1 | 27058.7 | 26804.0 | 28992.8 | 21323.1 |
| 47.5° | 21151.1 | 21253.9 | 21917.1 | 24347.2 | 27485.4 | 30538.5 | 30860.2 | 29158.2 | 28702.6 | 30668.0 | 22140.5 |
| 50° | 18763.5 | 18978.0 | 19813.2 | 22287.9 | 26482.5 | 31472.1 | 33899.9 | 31659.7 | 30717.2 | 32298.5 | 22960.3 |
| 52.5° | 14379.2 | 14709.7 | 15645.6 | 18902.0 | 23938.6 | 31009.8 | 36332.0 | 34692.7 | 33361.7 | 33987.0 | 23663.8 |
| 55° | 9070.1 | 9315.9 | 10102.1 | 13349.5 | 19149.9 | 28604.3 | 37254.6 | 37973.7 | 36789.9 | 35586.1 | 24273.6 |
| 57.5° | 4931.5 | 5041.0 | 5335.8 | 7370.6 | 12456.2 | 23286.4 | 35909.9 | 39841.0 | 39349.5 | 36944.1 | 24733.7 |
| 58° | 4413.4 | 4487.0 | 4670.2 | 6387.8 | 11046.8 | 21832.3 | 35313.7 | 39847.6 | 39602.0 | 37142.8 | 24769.3 |
| 60° | 3274.3 | 3236.4 | 3073.3 | 3645.1 | 6148.8 | 15082.7 | 31708.8 | 38253.0 | 38974.4 | 37386.3 | 24595.1 |
| 62.5° | 2876.7 | 2785.1 | 2452.4 | 2414.5 | 2990.6 | 6948.4 | 24262.3 | 32767.5 | 34471.6 | 35997.2 | 23536.5 |
| 65° | 2702.6 | 2604.2 | 2175.4 | 2036.9 | 2157.5 | 2939.3 | 14292.0 | 24575.0 | 26712.4 | 31784.8 | 20829.4 |
| 67.5° | 2572.9 | 2445.6 | 1999.0 | 1809.1 | 1818.1 | 1943.2 | 5728.9 | 15478.1 | 17883.5 | 24132.8 | 16201.7 |
| 70° | 2447.9 | 2309.5 | 1849.3 | 1630.5 | 1579.1 | 1536.6 | 2278.1 | 7748.1 | 9930.0 | 15243.6 | 10329.9 |
| 72.5° | 2313.9 | 2177.6 | 1717.6 | 1489.7 | 1389.1 | 1248.6 | 1487.6 | 3169.3 | 4426.8 | 7212.0 | 4685.9 |
| 75° | 2119.6 | 1996.8 | 1585.8 | 1364.6 | 1221.8 | 1034.0 | 1123.4 | 1654.9 | 1985.6 | 2872.3 | 2258.1 |
| 77.5° | 1880.6 | 1780.1 | 1438.4 | 1261.8 | 1083.3 | 839.7 | 864.3 | 1148.0 | 1273.1 | 1643.9 | 1342.3 |
| 80° | 1351.3 | 1387.1 | 1279.7 | 1134.6 | 964.9 | 681.3 | 663.4 | 837.6 | 904.6 | 1056.4 | 873.3 |
| 82.5° | 949.1 | 969.4 | 1058.7 | 927.0 | 797.3 | 536.1 | 489.1 | 589.6 | 629.8 | 694.6 | 471.3 |
| 85° | 654.4 | 632.0 | 725.9 | 645.5 | 576.3 | 357.3 | 335.0 | 399.7 | 424.4 | 431.0 | 243.4 |
| 87.5° | 393.1 | 393.1 | 419.9 | 346.1 | 310.5 | 185.4 | 180.9 | 227.8 | 243.4 | 232.3 | 133.9 |
| 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° | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 | 12599.1 |
| 2.5° | 12632.7 | 12474.0 | 12136.8 | 11866.5 | 11524.7 | 11169.6 | 10970.9 | 10758.7 | 10613.6 | 10508.6 | 10676.0 |
| 5° | 12728.7 | 12404.8 | 11707.9 | 11046.8 | 10316.5 | 9557.1 | 8980.9 | 8444.7 | 8071.8 | 7839.6 | 8058.4 |
| 7.5° | 12880.4 | 12382.4 | 11272.4 | 10142.3 | 8831.1 | 7567.1 | 6437.0 | 5728.9 | 5315.7 | 5112.4 | 5239.8 |
| 10° | 13054.7 | 12346.8 | 10760.9 | 8916.0 | 7039.9 | 5447.5 | 4603.3 | 4317.3 | 4223.6 | 4185.6 | 4203.3 |
| 12.5° | 13200.0 | 12270.8 | 10133.3 | 7433.0 | 5286.6 | 4301.8 | 4058.3 | 4051.5 | 4071.7 | 4076.1 | 4082.7 |
| 15° | 13302.6 | 12159.1 | 9202.0 | 5887.5 | 4228.1 | 3919.8 | 3906.4 | 3946.6 | 3984.5 | 4000.2 | 4009.1 |
| 17.5° | 13371.9 | 11929.0 | 8150.1 | 4654.6 | 3788.1 | 3734.4 | 3765.6 | 3817.0 | 3857.2 | 3868.5 | 3877.4 |
| 20° | 13365.3 | 11591.8 | 6896.9 | 3881.8 | 3549.1 | 3549.1 | 3602.7 | 3642.7 | 3645.1 | 3631.7 | 3638.3 |
| 22.5° | 13296.0 | 11129.6 | 5682.0 | 3470.8 | 3336.8 | 3374.8 | 3428.4 | 3390.5 | 3234.1 | 3131.3 | 3138.0 |
| 25° | 13179.8 | 10577.8 | 4641.3 | 3209.6 | 3140.2 | 3207.3 | 3191.7 | 2905.7 | 2682.3 | 2581.9 | 2581.9 |
| 27.5° | 13077.0 | 9925.6 | 3841.6 | 2981.7 | 2943.7 | 3026.4 | 2749.4 | 2490.3 | 2396.5 | 2349.6 | 2333.9 |
| 30° | 13003.3 | 9222.1 | 3307.7 | 2762.8 | 2758.3 | 2698.1 | 2385.4 | 2313.9 | 2298.3 | 2260.2 | 2246.9 |
| 32.5° | 13021.2 | 8509.6 | 2966.1 | 2570.7 | 2586.4 | 2309.5 | 2211.2 | 2226.8 | 2213.3 | 2173.2 | 2155.4 |
| 35° | 13168.7 | 7832.9 | 2742.7 | 2396.5 | 2349.6 | 2086.0 | 2108.4 | 2137.4 | 2132.9 | 2077.2 | 2059.3 |
| 37.5° | 13432.1 | 7191.8 | 2595.4 | 2251.3 | 2050.3 | 1974.5 | 2010.1 | 2054.9 | 2043.6 | 2005.6 | 1992.4 |
| 40° | 13709.2 | 6588.8 | 2474.7 | 2137.4 | 1874.0 | 1898.5 | 1929.6 | 1954.4 | 1965.5 | 1976.6 | 1967.6 |
| 42.5° | 13979.5 | 5958.9 | 2327.2 | 2021.2 | 1800.3 | 1827.1 | 1840.4 | 1864.9 | 1925.2 | 1967.6 | 1965.5 |
| 45° | 14140.2 | 5367.1 | 2175.4 | 1856.0 | 1742.2 | 1757.8 | 1748.8 | 1798.0 | 1871.7 | 1940.9 | 1943.2 |
| 47.5° | 14319.0 | 4907.0 | 2054.9 | 1704.2 | 1686.3 | 1697.4 | 1670.7 | 1719.7 | 1786.8 | 1871.7 | 1880.6 |
| 50° | 14535.6 | 4632.3 | 1958.8 | 1583.5 | 1610.3 | 1610.3 | 1603.7 | 1648.3 | 1742.2 | 1840.4 | 1858.2 |
| 52.5° | 14781.3 | 4578.7 | 1878.4 | 1496.4 | 1534.5 | 1532.1 | 1538.8 | 1605.9 | 1708.7 | 1804.7 | 1820.2 |
| 55° | 15080.4 | 4723.8 | 1791.3 | 1431.7 | 1460.7 | 1469.6 | 1491.9 | 1567.9 | 1654.9 | 1764.5 | 1771.2 |
| 57.5° | 15428.8 | 5018.7 | 1722.1 | 1380.2 | 1393.7 | 1422.7 | 1458.5 | 1527.7 | 1621.5 | 1742.2 | 1748.8 |
| 58° | 15487.0 | 5081.3 | 1710.8 | 1375.8 | 1380.2 | 1413.8 | 1453.9 | 1521.0 | 1614.9 | 1746.6 | 1753.3 |
| 60° | 15489.3 | 5289.0 | 1686.3 | 1355.7 | 1329.0 | 1384.7 | 1429.5 | 1496.4 | 1603.7 | 1762.2 | 1777.8 |
| 62.5° | 14939.8 | 5286.6 | 1668.4 | 1326.6 | 1275.4 | 1344.6 | 1396.0 | 1474.1 | 1592.4 | 1800.3 | 1831.5 |
| 65° | 13155.1 | 4804.2 | 1583.5 | 1282.1 | 1232.8 | 1308.8 | 1367.0 | 1458.5 | 1623.7 | 1965.5 | 1985.6 |
| 67.5° | 10289.6 | 3937.6 | 1425.0 | 1219.4 | 1177.0 | 1273.1 | 1349.1 | 1456.2 | 1657.3 | 2003.4 | 2016.9 |
| 70° | 6803.3 | 2946.0 | 1250.8 | 1148.0 | 1119.0 | 1230.7 | 1358.0 | 1532.1 | 1619.3 | 1923.0 | 1887.2 |
| 72.5° | 3531.1 | 2068.2 | 1110.0 | 1058.7 | 1051.9 | 1192.7 | 1487.6 | 1523.3 | 1581.2 | 1809.1 | 1764.5 |
| 75° | 1853.8 | 1436.1 | 987.1 | 960.4 | 971.5 | 1183.7 | 1755.5 | 1483.0 | 1532.1 | 1730.9 | 1815.8 |
| 77.5° | 1134.6 | 1159.3 | 882.2 | 871.0 | 893.5 | 1156.9 | 1753.3 | 1431.7 | 1460.7 | 1592.4 | 1686.3 |
| 80° | 759.3 | 940.3 | 801.8 | 804.1 | 819.8 | 1058.7 | 1574.5 | 1351.3 | 1373.6 | 1505.4 | 1601.4 |
| 82.5° | 480.2 | 556.1 | 728.2 | 766.1 | 746.0 | 873.3 | 1337.8 | 1230.7 | 1261.8 | 1722.1 | 1820.2 |
| 85° | 243.4 | 348.5 | 632.0 | 737.1 | 672.3 | 611.9 | 1085.5 | 1078.8 | 1094.5 | 1241.7 | 1297.6 |
| 87.5° | 111.7 | 192.1 | 493.6 | 643.2 | 507.1 | 381.9 | 788.4 | 799.6 | 862.2 | 882.2 | 882.2 |
| 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)