

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: P191776

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191776
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-08-LED-U-AFL-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48942 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

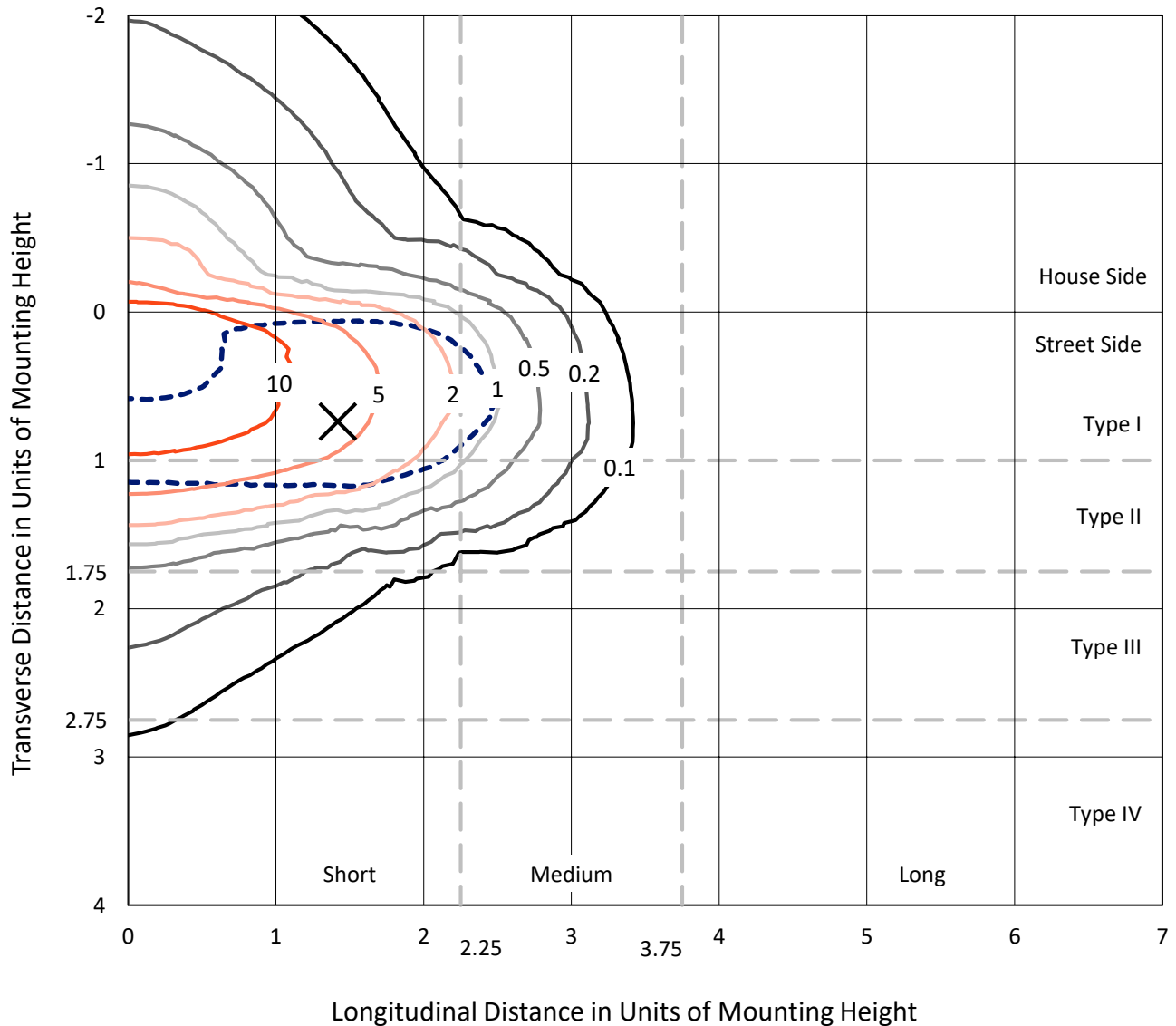
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

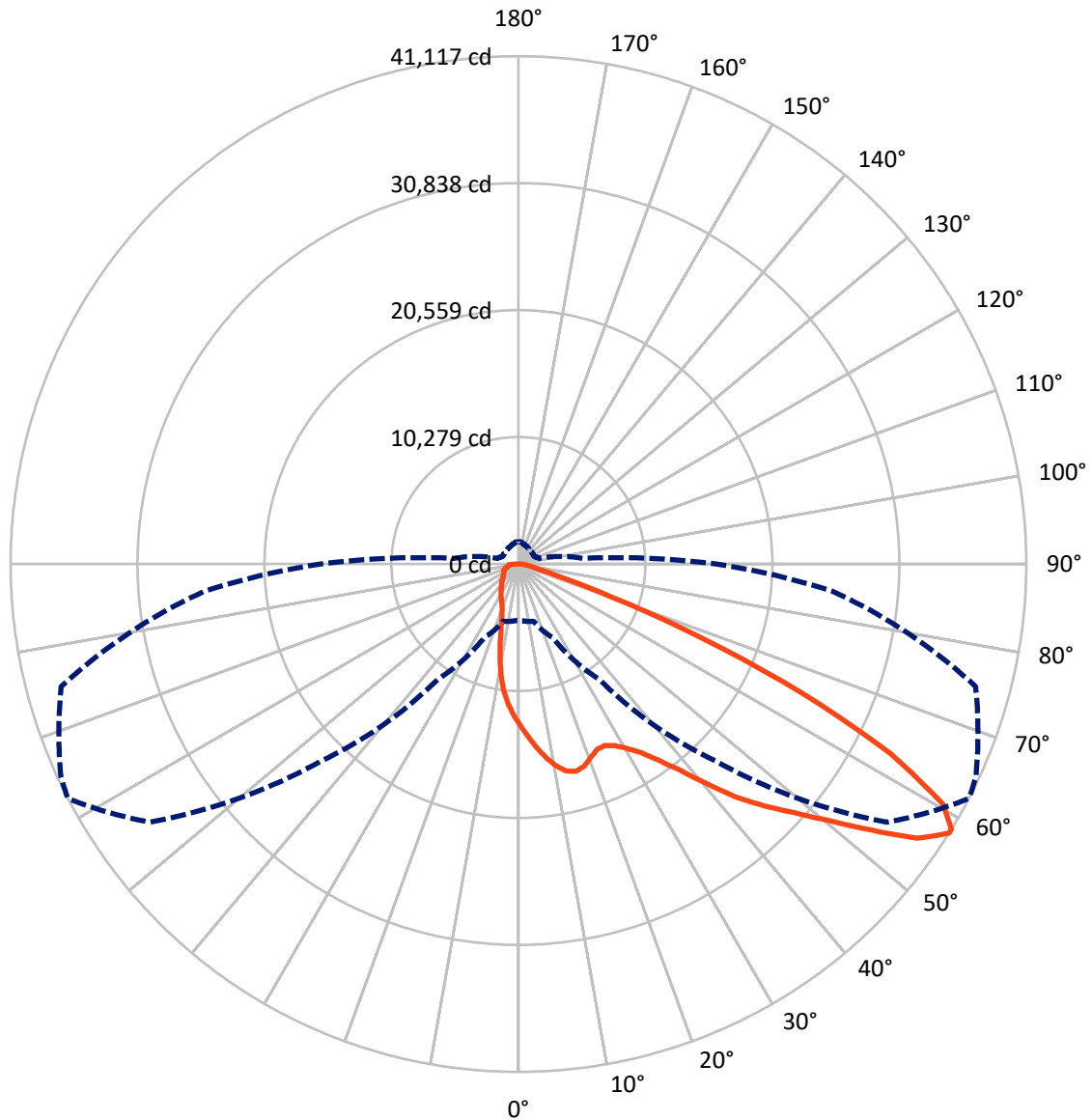
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.6 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 | 7463.9 | 0.0 | 7463.9 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 41478.2 | 0.0 | 41478.2 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 48942.0 | 0.0 | 48942.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1162.7 | 2.4 |
| 10°-20° | 2972.0 | 6.1 |
| 20°-30° | 4804.4 | 9.8 |
| 30°-40° | 7627.0 | 15.6 |
| 40°-50° | 11159.8 | 22.8 |
| 50°-60° | 11672.2 | 23.8 |
| 60°-70° | 6896.0 | 14.1 |
| 70°-80° | 1942.6 | 4.0 |
| 80°-90° | 705.3 | 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° | 48942.0 | 100.0 |
| 0°-180° | 48942.0 | 100.0 |

Coefficient of Utilization



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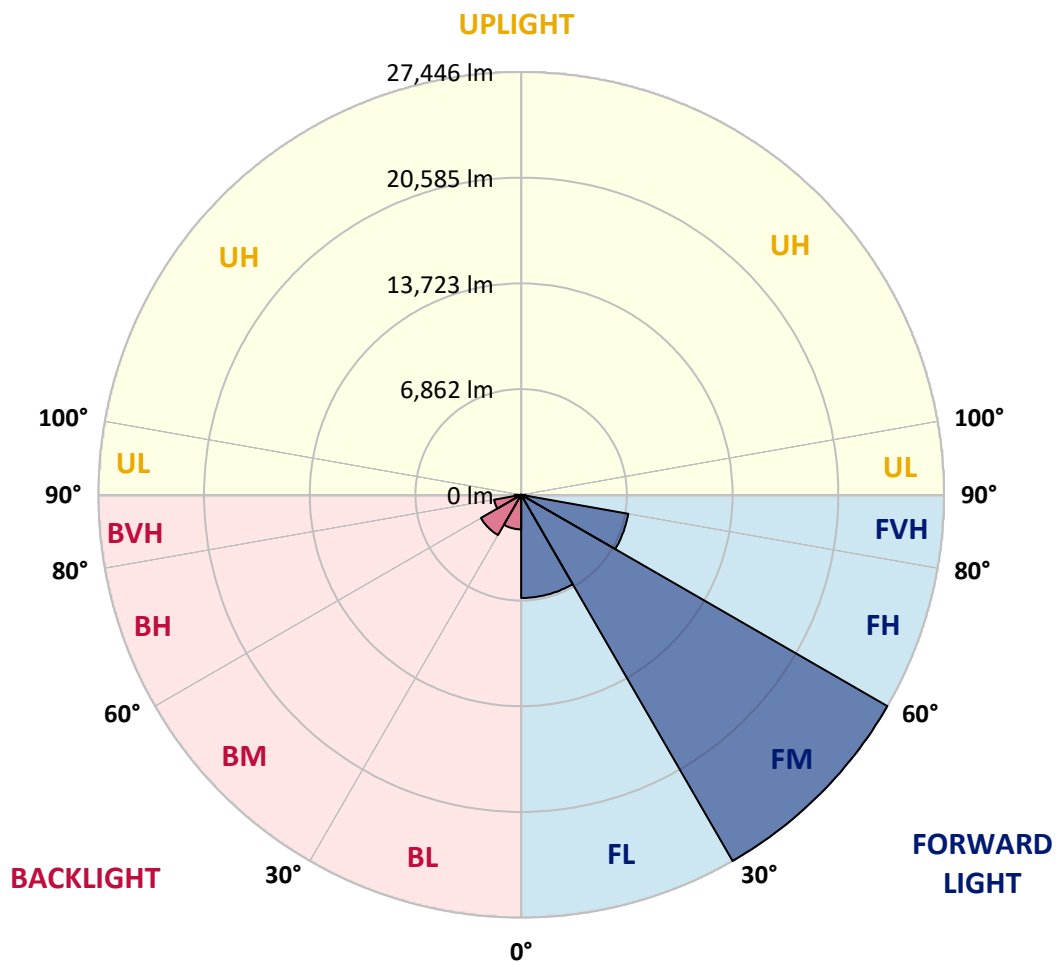
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6695.9 | 13.7 | | | |
| FM (30°-60°) | 27446.4 | 56.1 | | | |
| FH (60°-80°) | 7057.6 | 14.4 | | | G3/7500 |
| FVH (80°-90°) | 278.2 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2243.3 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 3012.6 | 6.2 | B3/5000 | | |
| BH (60°-80°) | 1781.0 | 3.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 427.0 | 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° | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 |
| 2.5° | 14855.7 | 14735.8 | 14659.8 | 14592.9 | 14505.4 | 14318.7 | 14067.5 | 13908.5 | 13827.8 | 13553.6 | 13228.6 |
| 5° | 16312.2 | 16206.2 | 16127.8 | 16038.0 | 15881.2 | 15588.6 | 15182.9 | 14860.3 | 14701.3 | 14152.8 | 13502.9 |
| 7.5° | 15971.1 | 16014.9 | 16150.9 | 16388.3 | 16591.1 | 16551.9 | 16190.1 | 15779.8 | 15570.1 | 14807.3 | 13820.9 |
| 10° | 13915.4 | 13991.4 | 14226.5 | 14781.9 | 15680.7 | 16602.6 | 16883.8 | 16600.3 | 16388.3 | 15454.9 | 14148.2 |
| 12.5° | 13502.9 | 13500.6 | 13519.0 | 13666.5 | 14201.2 | 15498.7 | 16906.8 | 17192.6 | 17065.8 | 16072.5 | 14482.3 |
| 15° | 13671.1 | 13675.7 | 13661.9 | 13724.1 | 13890.0 | 14404.0 | 16201.6 | 17420.7 | 17510.6 | 16694.8 | 14828.0 |
| 17.5° | 14113.6 | 14102.1 | 14049.1 | 14049.1 | 14109.0 | 14309.5 | 15371.9 | 17208.7 | 17623.5 | 17245.6 | 15132.2 |
| 20° | 14855.7 | 14802.7 | 14662.1 | 14533.0 | 14468.5 | 14576.8 | 15030.8 | 16720.1 | 17427.6 | 17727.3 | 15383.4 |
| 22.5° | 15754.5 | 15713.0 | 15484.8 | 15208.3 | 14984.7 | 14982.4 | 15206.0 | 16293.8 | 17088.9 | 18181.3 | 15595.5 |
| 25° | 16916.0 | 16849.2 | 16510.4 | 16067.9 | 15676.1 | 15526.3 | 15588.6 | 16273.0 | 16904.5 | 18674.5 | 15784.4 |
| 27.5° | 18280.4 | 18158.2 | 17757.2 | 17118.8 | 16542.7 | 16240.8 | 16150.9 | 16648.7 | 17072.7 | 19285.2 | 16047.2 |
| 30° | 19935.1 | 19794.5 | 19280.6 | 18448.6 | 17635.1 | 17139.6 | 16948.3 | 17314.7 | 17630.5 | 20029.6 | 16468.9 |
| 32.5° | 21818.0 | 21615.2 | 21020.6 | 20103.3 | 19034.0 | 18278.1 | 17966.9 | 18195.1 | 18446.3 | 20926.1 | 16996.7 |
| 35° | 24419.9 | 24177.9 | 23318.3 | 22053.1 | 20845.4 | 19806.0 | 19308.2 | 19474.2 | 19718.5 | 22262.8 | 17759.5 |
| 37.5° | 26194.5 | 26086.2 | 25514.6 | 24325.4 | 23011.8 | 21815.7 | 21045.9 | 21142.7 | 21281.0 | 23933.6 | 18736.7 |
| 40° | 26178.3 | 26222.1 | 26233.7 | 26245.2 | 25351.0 | 24205.6 | 23378.2 | 23276.8 | 23249.2 | 25768.1 | 19847.5 |
| 42.5° | 24867.0 | 25046.8 | 25627.5 | 26805.2 | 27349.1 | 26823.6 | 26065.4 | 25772.7 | 25627.5 | 27929.9 | 21025.2 |
| 45° | 22859.7 | 22956.5 | 24044.3 | 26344.3 | 28372.4 | 29416.4 | 28842.5 | 27920.7 | 27657.9 | 29916.5 | 22002.3 |
| 47.5° | 21824.9 | 21930.9 | 22615.4 | 25122.8 | 28360.8 | 31511.3 | 31843.1 | 30087.0 | 29616.9 | 31644.9 | 22845.8 |
| 50° | 19361.2 | 19582.5 | 20444.4 | 22998.0 | 27326.1 | 32474.6 | 34979.7 | 32668.2 | 31695.6 | 33327.3 | 23691.6 |
| 52.5° | 14837.2 | 15178.3 | 16144.0 | 19504.1 | 24701.1 | 31997.6 | 37489.5 | 35797.9 | 34424.3 | 35069.6 | 24417.6 |
| 55° | 9359.1 | 9612.6 | 10423.9 | 13774.8 | 19759.9 | 29515.5 | 38441.3 | 39183.4 | 37961.9 | 36719.7 | 25046.8 |
| 57.5° | 5088.6 | 5201.6 | 5505.8 | 7605.3 | 12852.9 | 24028.1 | 37053.9 | 41110.1 | 40603.1 | 38121.0 | 25521.5 |
| 58° | 4554.0 | 4630.0 | 4819.0 | 6591.3 | 11398.7 | 22527.8 | 36438.6 | 41117.0 | 40863.5 | 38326.1 | 25558.4 |
| 60° | 3378.6 | 3339.4 | 3171.2 | 3761.2 | 6344.7 | 15563.2 | 32718.9 | 39471.5 | 40215.9 | 38577.3 | 25378.6 |
| 62.5° | 2968.4 | 2873.9 | 2530.5 | 2491.3 | 3085.9 | 7169.7 | 25035.2 | 33811.3 | 35569.7 | 37143.8 | 24286.2 |
| 65° | 2788.6 | 2687.2 | 2244.7 | 2101.8 | 2226.3 | 3032.9 | 14747.4 | 25357.9 | 27563.4 | 32797.3 | 21493.0 |
| 67.5° | 2654.9 | 2523.6 | 2062.6 | 1866.8 | 1876.0 | 2005.0 | 5911.4 | 15971.1 | 18453.2 | 24901.6 | 16717.8 |
| 70° | 2525.9 | 2383.0 | 1908.2 | 1682.4 | 1629.4 | 1585.6 | 2350.7 | 7994.8 | 10246.4 | 15729.1 | 10658.9 |
| 72.5° | 2387.6 | 2247.0 | 1772.3 | 1537.2 | 1433.5 | 1288.3 | 1534.9 | 3270.3 | 4567.8 | 7441.7 | 4835.1 |
| 75° | 2187.1 | 2060.3 | 1636.3 | 1408.1 | 1260.6 | 1067.0 | 1159.2 | 1707.7 | 2048.8 | 2963.8 | 2330.0 |
| 77.5° | 1940.5 | 1836.8 | 1484.2 | 1302.1 | 1117.7 | 866.5 | 891.9 | 1184.6 | 1313.6 | 1696.2 | 1385.1 |
| 80° | 1394.3 | 1431.2 | 1320.6 | 1170.8 | 995.6 | 702.9 | 684.5 | 864.2 | 933.4 | 1090.1 | 901.1 |
| 82.5° | 979.5 | 1000.2 | 1092.4 | 956.4 | 822.8 | 553.1 | 504.7 | 608.4 | 649.9 | 716.7 | 486.3 |
| 85° | 675.3 | 652.2 | 749.0 | 666.0 | 594.6 | 368.7 | 345.7 | 412.5 | 437.9 | 444.8 | 251.2 |
| 87.5° | 405.6 | 405.6 | 433.3 | 357.2 | 320.3 | 191.3 | 186.7 | 235.1 | 251.2 | 239.7 | 138.3 |
| 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° | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 | 13000.4 |
| 2.5° | 13035.0 | 12871.4 | 12523.4 | 12244.5 | 11891.9 | 11525.5 | 11320.4 | 11101.4 | 10951.6 | 10843.3 | 11016.2 |
| 5° | 13134.1 | 12799.9 | 12080.9 | 11398.7 | 10645.1 | 9861.5 | 9266.9 | 8713.8 | 8329.0 | 8089.3 | 8315.1 |
| 7.5° | 13290.8 | 12776.9 | 11631.5 | 10465.3 | 9112.5 | 7808.1 | 6642.0 | 5911.4 | 5485.0 | 5275.3 | 5406.7 |
| 10° | 13470.6 | 12740.0 | 11103.7 | 9200.1 | 7264.2 | 5621.0 | 4749.9 | 4454.9 | 4358.1 | 4318.9 | 4337.3 |
| 12.5° | 13620.4 | 12661.7 | 10456.1 | 7669.8 | 5455.1 | 4438.7 | 4187.5 | 4180.6 | 4201.3 | 4206.0 | 4212.9 |
| 15° | 13726.4 | 12546.4 | 9495.1 | 6075.0 | 4362.7 | 4044.6 | 4030.8 | 4072.3 | 4111.5 | 4127.6 | 4136.8 |
| 17.5° | 13797.8 | 12309.1 | 8409.6 | 4802.9 | 3908.7 | 3853.3 | 3885.6 | 3938.6 | 3980.1 | 3991.6 | 4000.8 |
| 20° | 13790.9 | 11961.1 | 7116.7 | 4005.5 | 3662.1 | 3662.1 | 3717.4 | 3758.9 | 3761.2 | 3747.3 | 3754.3 |
| 22.5° | 13719.5 | 11484.0 | 5863.0 | 3581.4 | 3443.1 | 3482.3 | 3537.6 | 3498.4 | 3337.1 | 3231.1 | 3238.0 |
| 25° | 13599.7 | 10914.8 | 4789.0 | 3311.8 | 3240.3 | 3309.5 | 3293.3 | 2998.3 | 2767.9 | 2664.2 | 2664.2 |
| 27.5° | 13493.6 | 10241.8 | 3964.0 | 3076.7 | 3037.5 | 3122.8 | 2837.0 | 2569.7 | 2472.9 | 2424.5 | 2408.3 |
| 30° | 13417.6 | 9515.8 | 3413.2 | 2850.8 | 2846.2 | 2784.0 | 2461.4 | 2387.6 | 2371.5 | 2332.3 | 2318.5 |
| 32.5° | 13436.0 | 8780.7 | 3060.6 | 2652.6 | 2668.8 | 2383.0 | 2281.6 | 2297.7 | 2283.9 | 2242.4 | 2224.0 |
| 35° | 13588.1 | 8082.4 | 2830.1 | 2472.9 | 2424.5 | 2152.5 | 2175.6 | 2205.5 | 2200.9 | 2143.3 | 2124.9 |
| 37.5° | 13860.1 | 7420.9 | 2678.0 | 2323.1 | 2115.7 | 2037.3 | 2074.2 | 2120.3 | 2108.7 | 2069.6 | 2055.7 |
| 40° | 14145.8 | 6798.7 | 2553.5 | 2205.5 | 1933.6 | 1958.9 | 1991.2 | 2016.6 | 2028.1 | 2039.6 | 2030.4 |
| 42.5° | 14424.7 | 6148.8 | 2401.4 | 2085.7 | 1857.5 | 1885.2 | 1899.0 | 1924.4 | 1986.6 | 2030.4 | 2028.1 |
| 45° | 14590.6 | 5538.0 | 2244.7 | 1915.2 | 1797.6 | 1813.7 | 1804.5 | 1855.2 | 1931.3 | 2002.7 | 2005.0 |
| 47.5° | 14775.0 | 5063.3 | 2120.3 | 1758.4 | 1740.0 | 1751.5 | 1723.9 | 1774.6 | 1843.7 | 1931.3 | 1940.5 |
| 50° | 14998.6 | 4779.8 | 2021.2 | 1634.0 | 1661.6 | 1661.6 | 1654.7 | 1700.8 | 1797.6 | 1899.0 | 1917.5 |
| 52.5° | 15252.1 | 4724.5 | 1938.2 | 1544.1 | 1583.3 | 1581.0 | 1587.9 | 1657.0 | 1763.0 | 1862.1 | 1878.3 |
| 55° | 15560.9 | 4874.3 | 1848.3 | 1477.3 | 1507.2 | 1516.4 | 1539.5 | 1617.9 | 1707.7 | 1820.7 | 1827.6 |
| 57.5° | 15920.4 | 5178.5 | 1776.9 | 1424.3 | 1438.1 | 1468.1 | 1504.9 | 1576.4 | 1673.2 | 1797.6 | 1804.5 |
| 58° | 15980.3 | 5243.0 | 1765.4 | 1419.7 | 1424.3 | 1458.8 | 1500.3 | 1569.5 | 1666.3 | 1802.2 | 1809.1 |
| 60° | 15982.6 | 5457.4 | 1740.0 | 1398.9 | 1371.3 | 1428.9 | 1475.0 | 1544.1 | 1654.7 | 1818.4 | 1834.5 |
| 62.5° | 15415.7 | 5455.1 | 1721.6 | 1369.0 | 1315.9 | 1387.4 | 1440.4 | 1521.1 | 1643.2 | 1857.5 | 1889.8 |
| 65° | 13574.3 | 4957.3 | 1634.0 | 1322.9 | 1272.2 | 1350.5 | 1410.4 | 1504.9 | 1675.5 | 2028.1 | 2048.8 |
| 67.5° | 10617.5 | 4063.1 | 1470.4 | 1258.3 | 1214.5 | 1313.6 | 1392.0 | 1502.6 | 1710.0 | 2067.3 | 2081.1 |
| 70° | 7019.9 | 3039.8 | 1290.6 | 1184.6 | 1154.6 | 1269.9 | 1401.2 | 1581.0 | 1670.9 | 1984.3 | 1947.4 |
| 72.5° | 3643.6 | 2134.1 | 1145.4 | 1092.4 | 1085.5 | 1230.7 | 1534.9 | 1571.8 | 1631.7 | 1866.8 | 1820.7 |
| 75° | 1912.8 | 1481.9 | 1018.6 | 991.0 | 1002.5 | 1221.5 | 1811.4 | 1530.3 | 1581.0 | 1786.1 | 1873.7 |
| 77.5° | 1170.8 | 1196.1 | 910.3 | 898.8 | 921.9 | 1193.8 | 1809.1 | 1477.3 | 1507.2 | 1643.2 | 1740.0 |
| 80° | 783.6 | 970.3 | 827.4 | 829.7 | 845.8 | 1092.4 | 1624.8 | 1394.3 | 1417.4 | 1553.3 | 1652.4 |
| 82.5° | 495.5 | 573.9 | 751.3 | 790.5 | 769.7 | 901.1 | 1380.5 | 1269.9 | 1302.1 | 1776.9 | 1878.3 |
| 85° | 251.2 | 359.5 | 652.2 | 760.5 | 693.7 | 631.5 | 1120.1 | 1113.1 | 1129.3 | 1281.4 | 1339.0 |
| 87.5° | 115.2 | 198.2 | 509.3 | 663.7 | 523.2 | 394.1 | 813.5 | 825.1 | 889.6 | 910.3 | 910.3 |
| 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)