

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: P382769

Luminaire Tested: **GAN-SA1C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5647 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

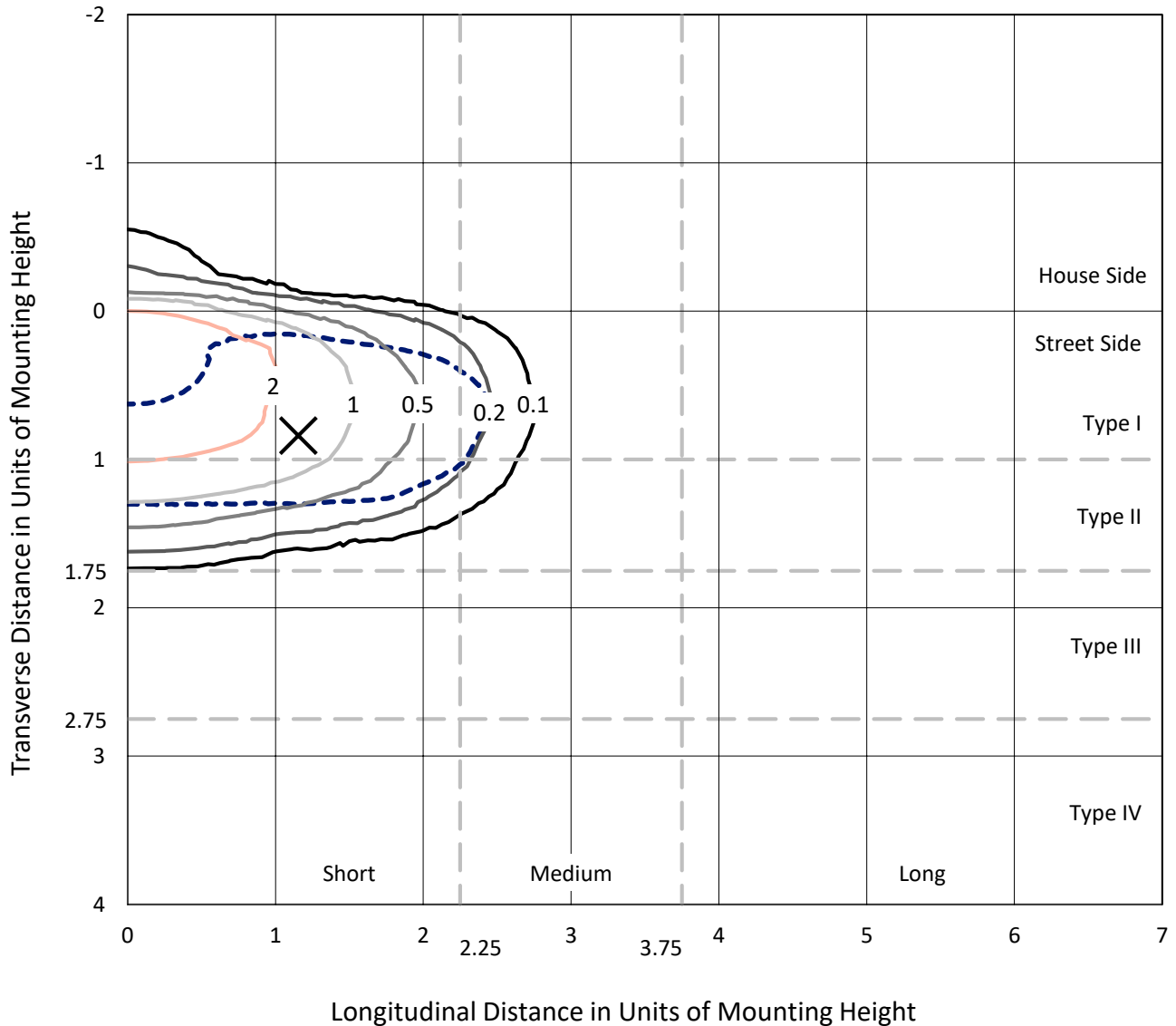
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

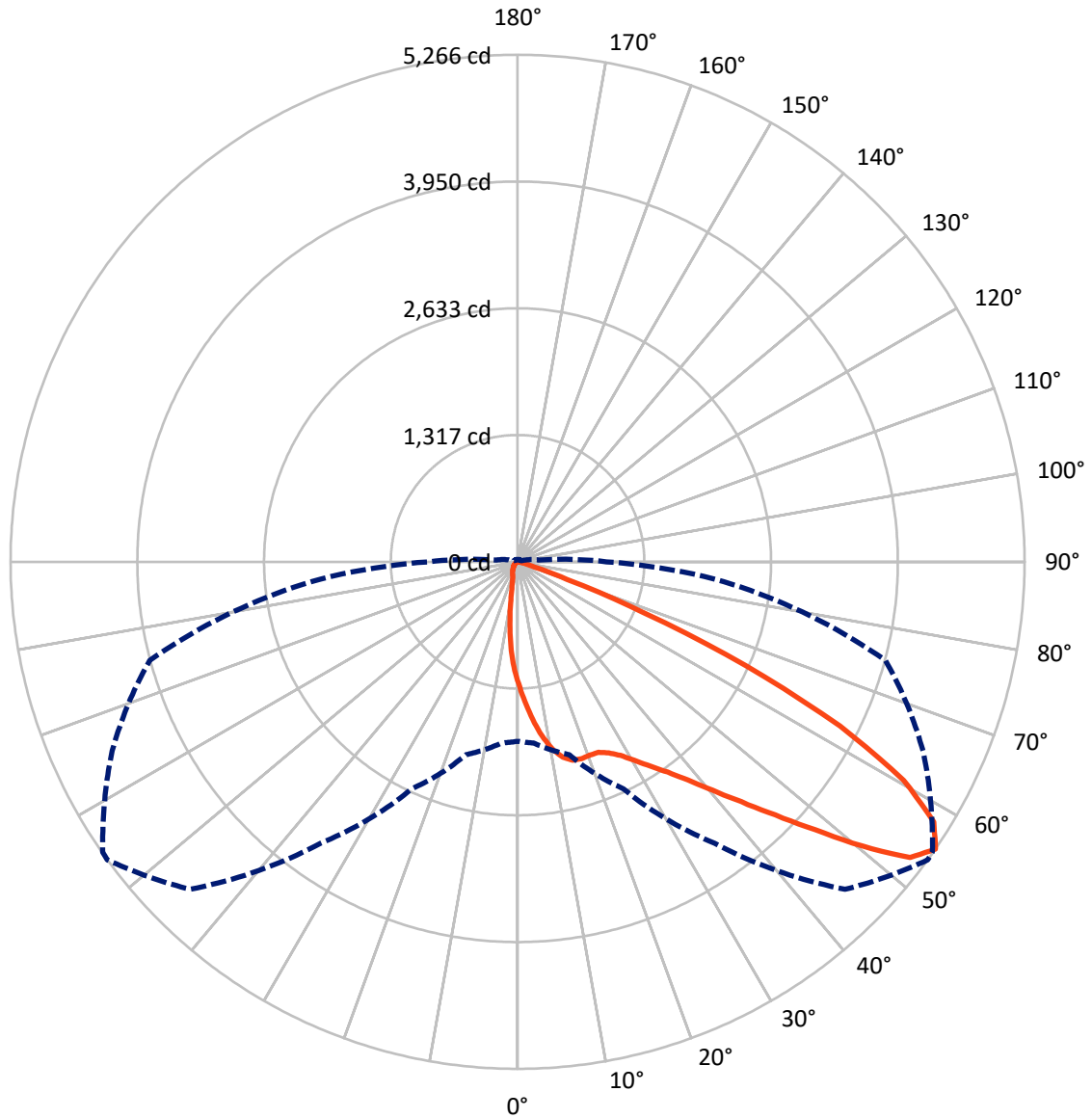
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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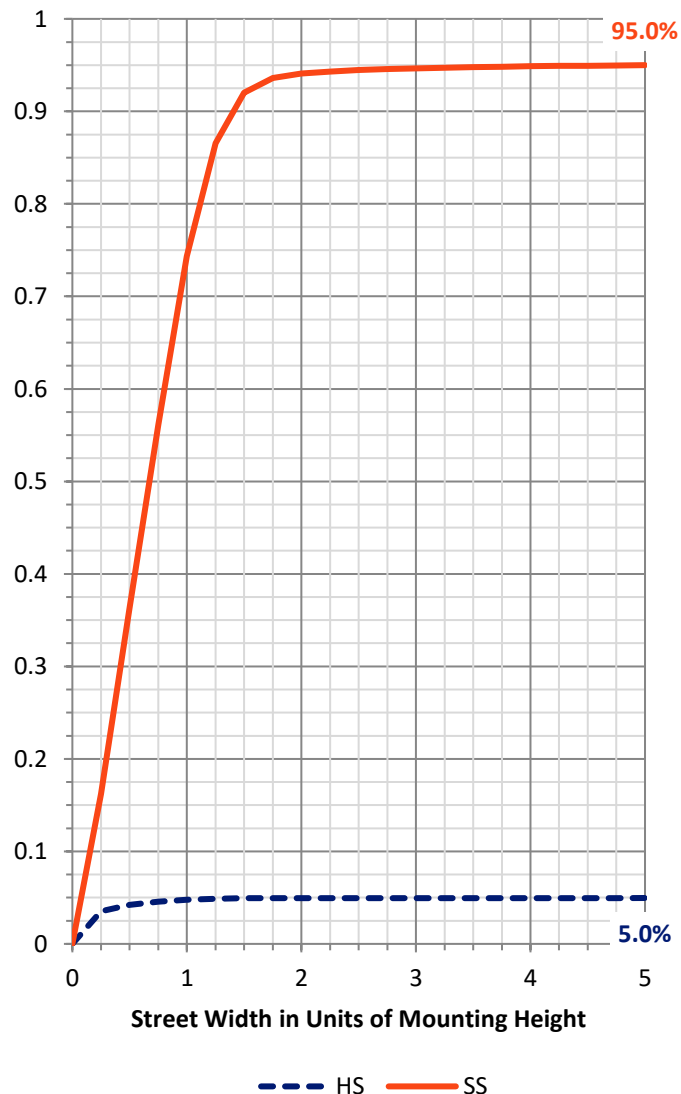
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 281.7 | 0.0 | 281.7 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 5365.3 | 0.0 | 5365.3 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 5647.0 | 0.0 | 5647.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.5 | 2.1 |
| 10°-20° | 319.4 | 5.7 |
| 20°-30° | 545.3 | 9.7 |
| 30°-40° | 875.2 | 15.5 |
| 40°-50° | 1398.5 | 24.8 |
| 50°-60° | 1498.6 | 26.5 |
| 60°-70° | 769.4 | 13.6 |
| 70°-80° | 116.6 | 2.1 |
| 80°-90° | 7.6 | 0.1 |
| 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° | 5647.0 | 100.0 |
| 0°-180° | 5647.0 | 100.0 |

Coefficient of Utilization



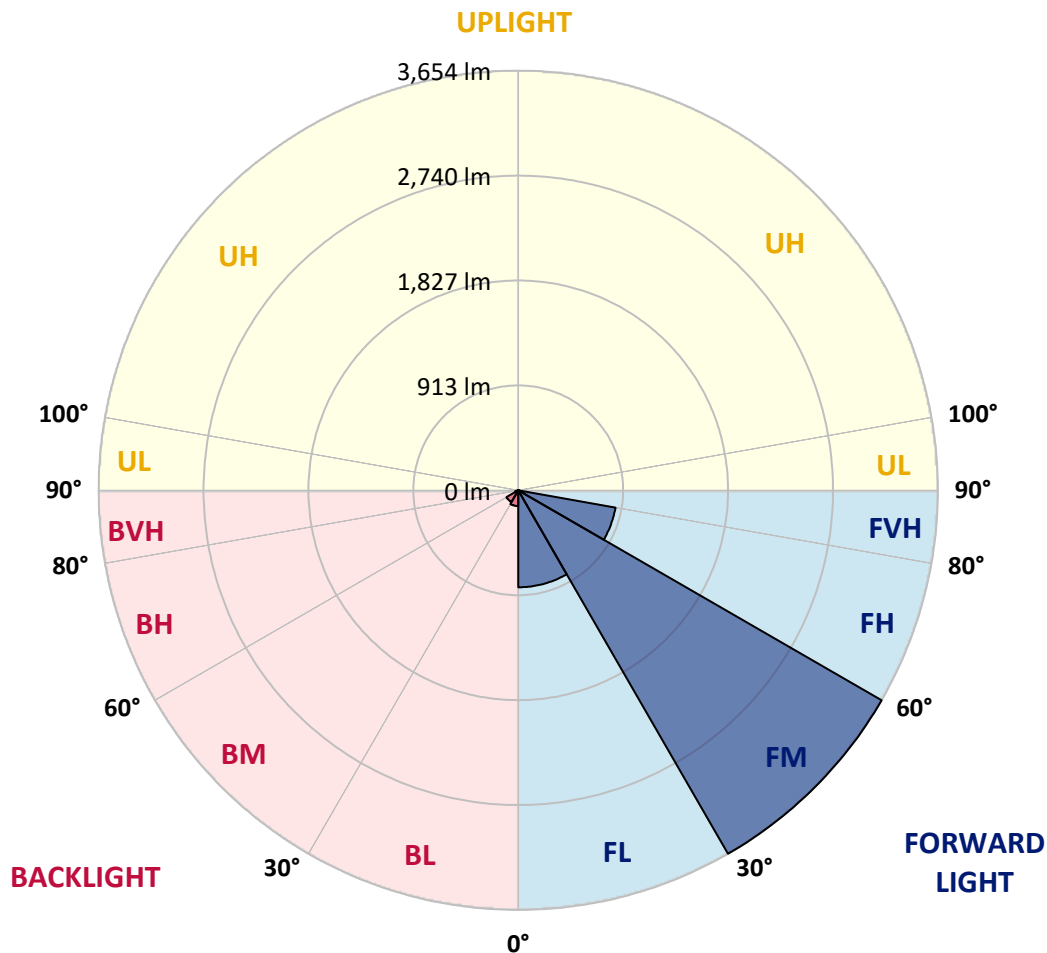
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 844.1 | 14.9 | | | |
| FM (30°-60°) | 3653.9 | 64.7 | | | |
| FH (60°-80°) | 860.0 | 15.2 | | | G1/1800 |
| FVH (80°-90°) | 7.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 137.1 | 2.4 | B1/500 | | |
| BM (30°-60°) | 118.4 | 2.1 | B0/220 | | |
| BH (60°-80°) | 26.0 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 |
| 2.5° | 1587.1 | 1563.4 | 1564.2 | 1553.4 | 1514.2 | 1483.5 | 1451.5 | 1444.0 | 1394.2 | 1342.0 | 1291.8 |
| 5° | 1861.4 | 1844.2 | 1840.0 | 1819.3 | 1764.6 | 1706.9 | 1644.9 | 1630.5 | 1533.2 | 1426.4 | 1321.3 |
| 7.5° | 2002.5 | 2002.6 | 1999.3 | 1991.6 | 1957.6 | 1901.5 | 1825.8 | 1810.7 | 1678.3 | 1518.0 | 1352.0 |
| 10° | 1961.5 | 1970.7 | 1989.7 | 2014.8 | 2040.9 | 2033.8 | 1977.0 | 1963.4 | 1819.5 | 1615.1 | 1386.1 |
| 12.5° | 1865.9 | 1867.1 | 1888.2 | 1929.5 | 2004.6 | 2081.6 | 2082.7 | 2078.0 | 1954.4 | 1716.6 | 1423.7 |
| 15° | 1818.3 | 1822.9 | 1830.8 | 1857.3 | 1928.5 | 2051.9 | 2140.2 | 2146.8 | 2078.0 | 1824.4 | 1463.7 |
| 17.5° | 1849.5 | 1856.1 | 1849.5 | 1852.7 | 1893.9 | 2004.9 | 2150.2 | 2167.1 | 2186.1 | 1931.0 | 1501.5 |
| 20° | 1934.2 | 1940.2 | 1928.5 | 1915.6 | 1923.6 | 1991.2 | 2143.1 | 2165.8 | 2270.6 | 2025.6 | 1533.2 |
| 22.5° | 2048.3 | 2050.7 | 2032.9 | 2011.7 | 2005.8 | 2037.6 | 2149.0 | 2172.4 | 2338.5 | 2111.2 | 1553.2 |
| 25° | 2173.9 | 2176.1 | 2153.8 | 2129.5 | 2115.5 | 2128.5 | 2197.1 | 2214.6 | 2398.2 | 2192.9 | 1564.6 |
| 27.5° | 2310.7 | 2312.7 | 2284.8 | 2254.8 | 2238.7 | 2239.3 | 2276.3 | 2295.1 | 2461.9 | 2286.0 | 1573.9 |
| 30° | 2455.3 | 2454.3 | 2428.7 | 2387.0 | 2366.5 | 2366.0 | 2390.4 | 2409.4 | 2554.0 | 2405.5 | 1586.6 |
| 32.5° | 2617.7 | 2615.8 | 2579.5 | 2527.8 | 2504.6 | 2508.0 | 2529.7 | 2540.6 | 2668.4 | 2532.9 | 1609.3 |
| 35° | 2831.5 | 2825.9 | 2771.1 | 2707.0 | 2664.3 | 2663.1 | 2681.4 | 2690.1 | 2814.3 | 2687.0 | 1647.1 |
| 37.5° | 3109.1 | 3104.0 | 3029.6 | 2936.4 | 2876.4 | 2854.0 | 2875.7 | 2887.0 | 3022.3 | 2884.7 | 1707.8 |
| 40° | 3382.7 | 3377.6 | 3333.4 | 3248.1 | 3155.7 | 3101.8 | 3118.8 | 3130.8 | 3282.0 | 3124.7 | 1784.4 |
| 42.5° | 3571.5 | 3575.8 | 3591.2 | 3598.3 | 3511.7 | 3398.6 | 3406.4 | 3418.8 | 3554.9 | 3381.2 | 1871.9 |
| 45° | 3621.2 | 3630.7 | 3717.5 | 3888.0 | 3920.4 | 3832.2 | 3750.5 | 3757.3 | 3832.2 | 3637.8 | 1959.5 |
| 47.5° | 3471.7 | 3489.3 | 3656.8 | 3973.9 | 4248.4 | 4310.9 | 4156.3 | 4147.2 | 4098.3 | 3845.3 | 2021.6 |
| 50° | 3132.0 | 3148.2 | 3365.1 | 3834.2 | 4348.0 | 4767.9 | 4642.6 | 4616.0 | 4331.6 | 3969.5 | 2043.6 |
| 52.5° | 2640.4 | 2659.8 | 2836.2 | 3394.2 | 4160.4 | 4971.8 | 5103.0 | 5080.8 | 4502.8 | 3979.2 | 2047.3 |
| 55° | 1864.6 | 1888.2 | 2074.8 | 2601.3 | 3566.2 | 4809.6 | 5266.1 | 5259.5 | 4645.0 | 3953.4 | 2055.1 |
| 57.5° | 1047.9 | 1064.9 | 1266.2 | 1667.6 | 2611.9 | 4189.2 | 5095.7 | 5139.3 | 4730.9 | 3908.5 | 2066.8 |
| 60° | 465.3 | 470.0 | 574.1 | 830.1 | 1529.0 | 3201.5 | 4607.7 | 4681.3 | 4657.2 | 3848.5 | 2086.6 |
| 62.5° | 258.0 | 254.1 | 254.1 | 345.0 | 664.6 | 1982.0 | 3757.3 | 3879.0 | 4342.9 | 3777.5 | 2087.5 |
| 65° | 202.1 | 198.5 | 188.0 | 189.5 | 253.1 | 879.7 | 2601.8 | 2818.1 | 3745.8 | 3569.5 | 2017.3 |
| 67.5° | 171.4 | 168.2 | 157.8 | 153.6 | 157.3 | 290.2 | 1429.6 | 1654.1 | 2842.3 | 3028.8 | 1747.3 |
| 70° | 144.9 | 142.6 | 137.3 | 132.2 | 122.9 | 143.4 | 547.0 | 699.7 | 1751.5 | 2014.8 | 1192.8 |
| 72.5° | 116.5 | 115.6 | 117.6 | 113.2 | 101.9 | 95.6 | 187.1 | 226.6 | 786.7 | 899.1 | 491.4 |
| 75° | 100.5 | 100.0 | 101.0 | 96.6 | 83.9 | 66.6 | 95.1 | 103.9 | 221.9 | 219.9 | 99.5 |
| 77.5° | 65.4 | 66.0 | 83.7 | 81.7 | 72.2 | 44.3 | 49.3 | 53.2 | 67.4 | 50.5 | 30.3 |
| 80° | 41.7 | 41.2 | 42.5 | 67.8 | 64.8 | 33.9 | 24.6 | 25.8 | 32.4 | 24.9 | 14.6 |
| 82.5° | 25.3 | 24.9 | 27.8 | 31.7 | 32.7 | 23.7 | 15.1 | 15.4 | 20.2 | 16.1 | 7.8 |
| 85° | 2.2 | 2.9 | 16.9 | 15.6 | 11.2 | 7.4 | 7.4 | 7.8 | 10.7 | 9.5 | 4.4 |
| 87.5° | 0.0 | 0.0 | 2.9 | 4.4 | 2.4 | 2.7 | 2.7 | 2.9 | 4.2 | 4.2 | 2.2 |
| 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° | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 | 1264.7 |
| 2.5° | 1265.7 | 1240.4 | 1189.1 | 1139.8 | 1098.1 | 1057.9 | 1012.0 | 966.7 | 945.5 | 937.0 | 928.2 |
| 5° | 1267.8 | 1215.7 | 1110.1 | 1003.7 | 893.5 | 794.3 | 709.7 | 622.8 | 579.4 | 560.4 | 551.7 |
| 7.5° | 1270.8 | 1191.3 | 1020.6 | 842.1 | 664.6 | 530.0 | 412.4 | 336.8 | 304.2 | 299.0 | 286.3 |
| 10° | 1271.3 | 1161.8 | 916.7 | 663.5 | 445.6 | 319.4 | 245.8 | 206.8 | 192.5 | 189.9 | 185.8 |
| 12.5° | 1272.3 | 1126.9 | 801.3 | 491.4 | 297.1 | 213.6 | 177.7 | 164.9 | 161.0 | 160.7 | 160.7 |
| 15° | 1275.2 | 1090.4 | 681.6 | 354.1 | 213.4 | 169.3 | 156.0 | 150.9 | 149.5 | 150.3 | 150.0 |
| 17.5° | 1275.2 | 1047.2 | 564.1 | 263.9 | 172.4 | 152.2 | 144.9 | 141.4 | 140.9 | 141.7 | 142.0 |
| 20° | 1266.0 | 994.7 | 456.3 | 205.3 | 152.9 | 141.2 | 134.6 | 131.4 | 130.2 | 130.7 | 131.0 |
| 22.5° | 1243.7 | 930.3 | 368.5 | 170.0 | 140.0 | 131.2 | 124.2 | 119.2 | 117.3 | 117.6 | 117.6 |
| 25° | 1209.1 | 854.0 | 288.2 | 147.1 | 129.5 | 120.4 | 112.2 | 106.6 | 105.4 | 105.1 | 105.6 |
| 27.5° | 1164.7 | 769.6 | 229.4 | 129.5 | 117.1 | 108.5 | 100.2 | 95.6 | 94.6 | 94.8 | 95.1 |
| 30° | 1121.1 | 682.1 | 180.9 | 114.6 | 103.1 | 95.1 | 88.8 | 86.5 | 86.5 | 87.3 | 87.6 |
| 32.5° | 1081.1 | 598.0 | 143.2 | 101.7 | 90.7 | 83.4 | 79.7 | 79.5 | 80.8 | 81.2 | 81.4 |
| 35° | 1046.7 | 520.2 | 118.5 | 91.7 | 81.0 | 74.6 | 73.4 | 74.3 | 75.8 | 76.9 | 77.0 |
| 37.5° | 1022.3 | 450.7 | 103.7 | 83.4 | 73.4 | 68.3 | 68.0 | 70.0 | 71.9 | 74.2 | 74.6 |
| 40° | 1012.0 | 391.9 | 93.4 | 76.1 | 67.4 | 63.4 | 62.7 | 65.4 | 69.0 | 72.2 | 72.7 |
| 42.5° | 1003.6 | 343.8 | 84.6 | 69.0 | 62.4 | 56.8 | 56.5 | 60.0 | 64.4 | 67.5 | 68.3 |
| 45° | 996.2 | 305.4 | 76.6 | 61.5 | 56.1 | 48.8 | 49.5 | 53.9 | 57.3 | 60.7 | 61.5 |
| 47.5° | 981.1 | 273.6 | 67.8 | 53.4 | 46.3 | 41.7 | 43.1 | 47.0 | 49.7 | 54.9 | 55.6 |
| 50° | 954.0 | 247.8 | 58.8 | 43.7 | 37.8 | 36.1 | 38.3 | 41.0 | 44.3 | 48.8 | 49.3 |
| 52.5° | 935.7 | 228.2 | 51.0 | 36.6 | 31.2 | 31.7 | 33.9 | 34.8 | 36.8 | 38.6 | 38.0 |
| 55° | 925.2 | 217.5 | 44.6 | 31.7 | 26.5 | 28.0 | 28.5 | 27.3 | 26.4 | 24.6 | 23.9 |
| 57.5° | 924.0 | 207.7 | 39.8 | 27.6 | 23.4 | 24.1 | 22.5 | 18.3 | 14.9 | 12.9 | 12.5 |
| 60° | 922.0 | 195.8 | 35.9 | 23.2 | 20.8 | 19.7 | 16.1 | 10.0 | 7.1 | 6.6 | 6.6 |
| 62.5° | 900.9 | 177.3 | 32.9 | 19.5 | 17.5 | 14.9 | 9.2 | 4.7 | 3.9 | 4.2 | 4.2 |
| 65° | 833.3 | 151.5 | 30.0 | 15.8 | 13.9 | 10.7 | 4.7 | 2.7 | 1.5 | 1.7 | 1.7 |
| 67.5° | 708.4 | 120.7 | 26.8 | 12.2 | 10.5 | 6.8 | 2.7 | 1.2 | 0.0 | 0.0 | 0.0 |
| 70° | 474.3 | 74.9 | 22.6 | 8.6 | 6.8 | 4.2 | 2.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 181.9 | 40.5 | 18.3 | 5.1 | 4.4 | 2.9 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 41.0 | 26.5 | 12.7 | 3.6 | 3.2 | 2.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 15.6 | 19.3 | 7.4 | 2.4 | 2.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 7.5 | 11.5 | 3.4 | 1.5 | 1.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.9 | 4.4 | 1.5 | 0.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.2 | 2.2 | 0.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.2 | 0.7 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)