

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: P192790

Luminaire Tested: **GAN-AF-02-LED-U-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9755.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

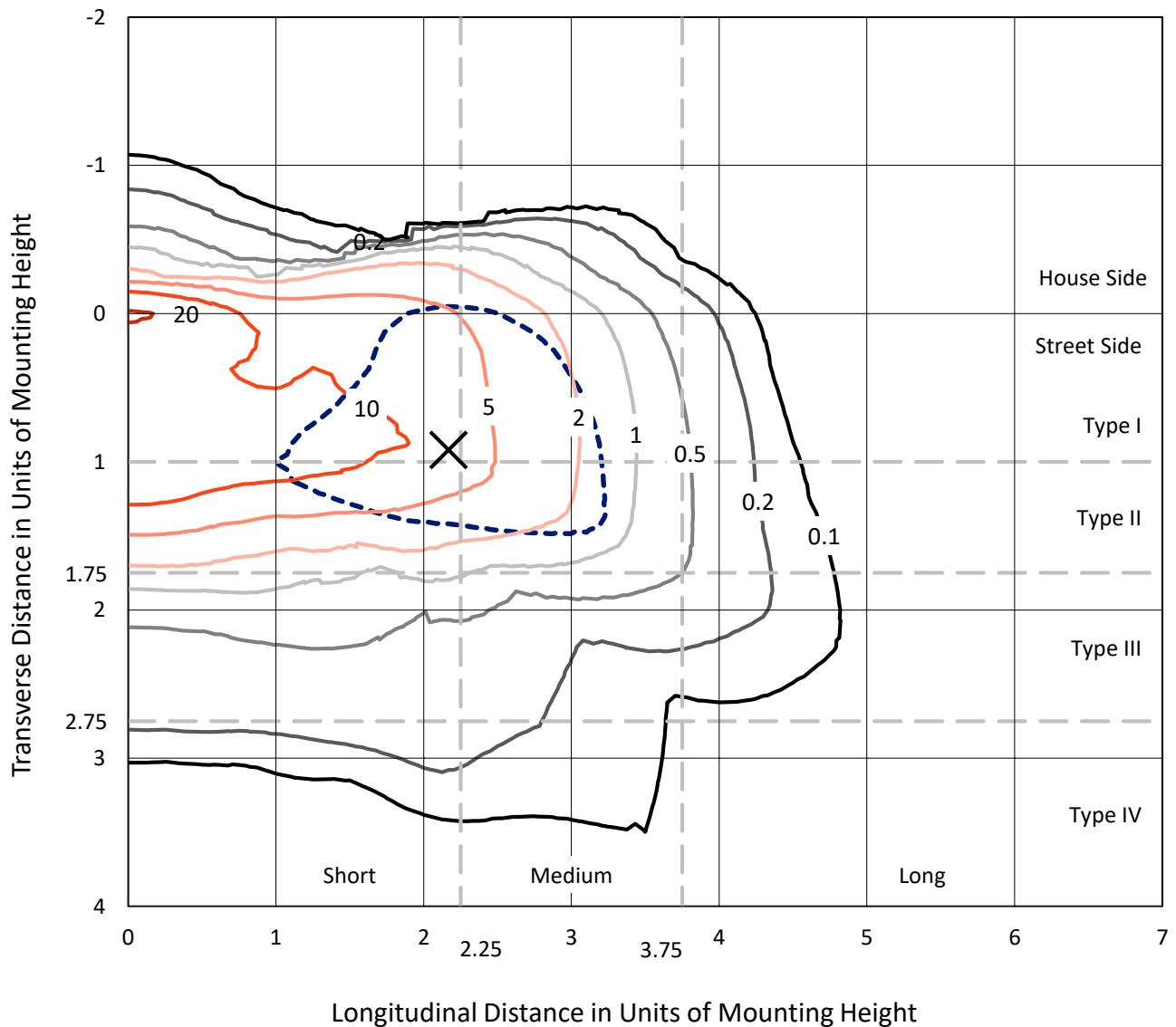
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

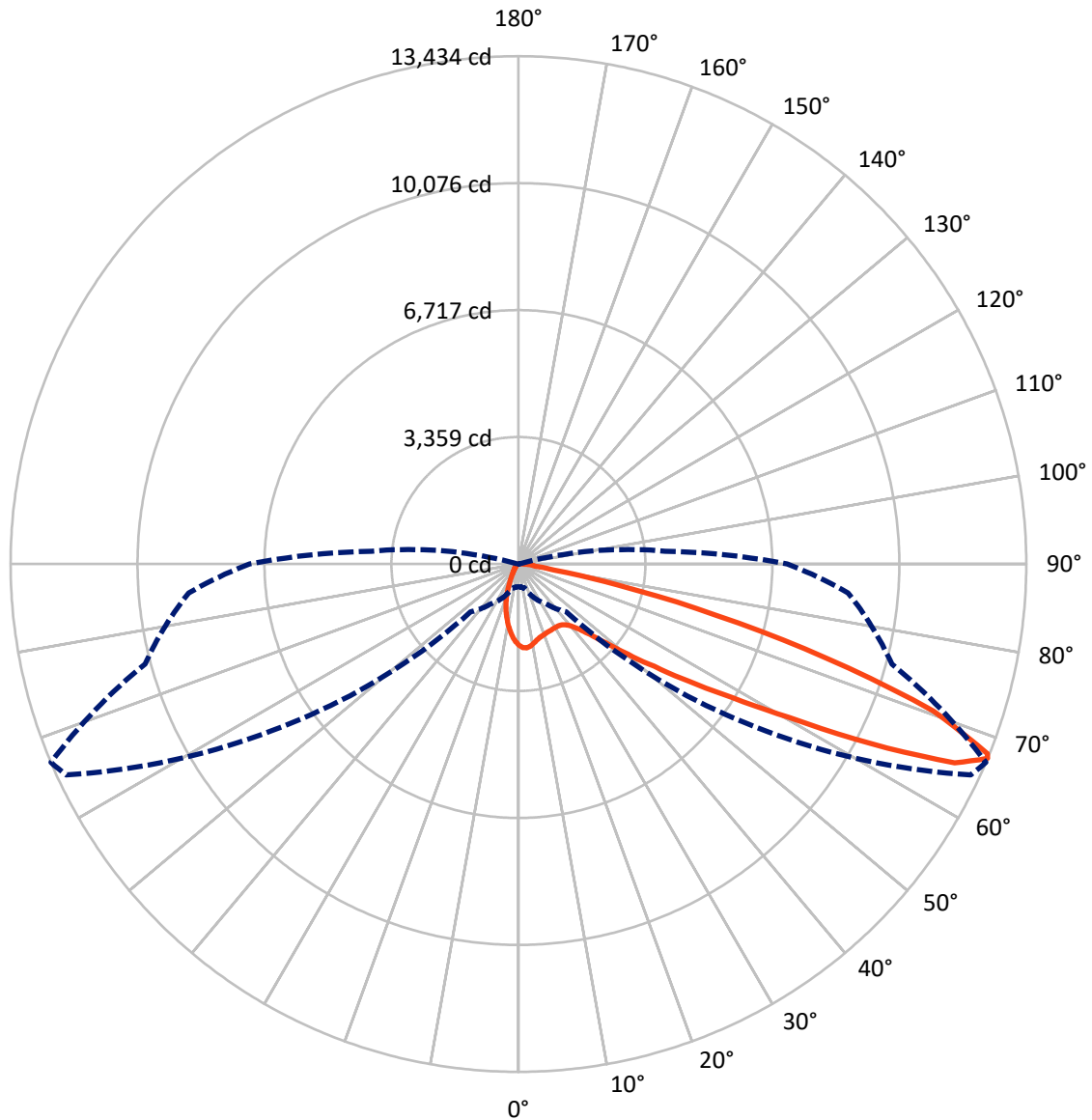
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1012.9 | 0.0 | 1012.9 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 8742.8 | 0.0 | 8742.8 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 9755.8 | 0.0 | 9755.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.1 | 1.8 |
| 10°-20° | 372.6 | 3.8 |
| 20°-30° | 541.7 | 5.6 |
| 30°-40° | 845.1 | 8.7 |
| 40°-50° | 1497.1 | 15.3 |
| 50°-60° | 2369.0 | 24.3 |
| 60°-70° | 2713.4 | 27.8 |
| 70°-80° | 1125.5 | 11.5 |
| 80°-90° | 116.3 | 1.2 |
| 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° | 9755.8 | 100.0 |
| 0°-180° | 9755.8 | 100.0 |

Coefficient of Utilization



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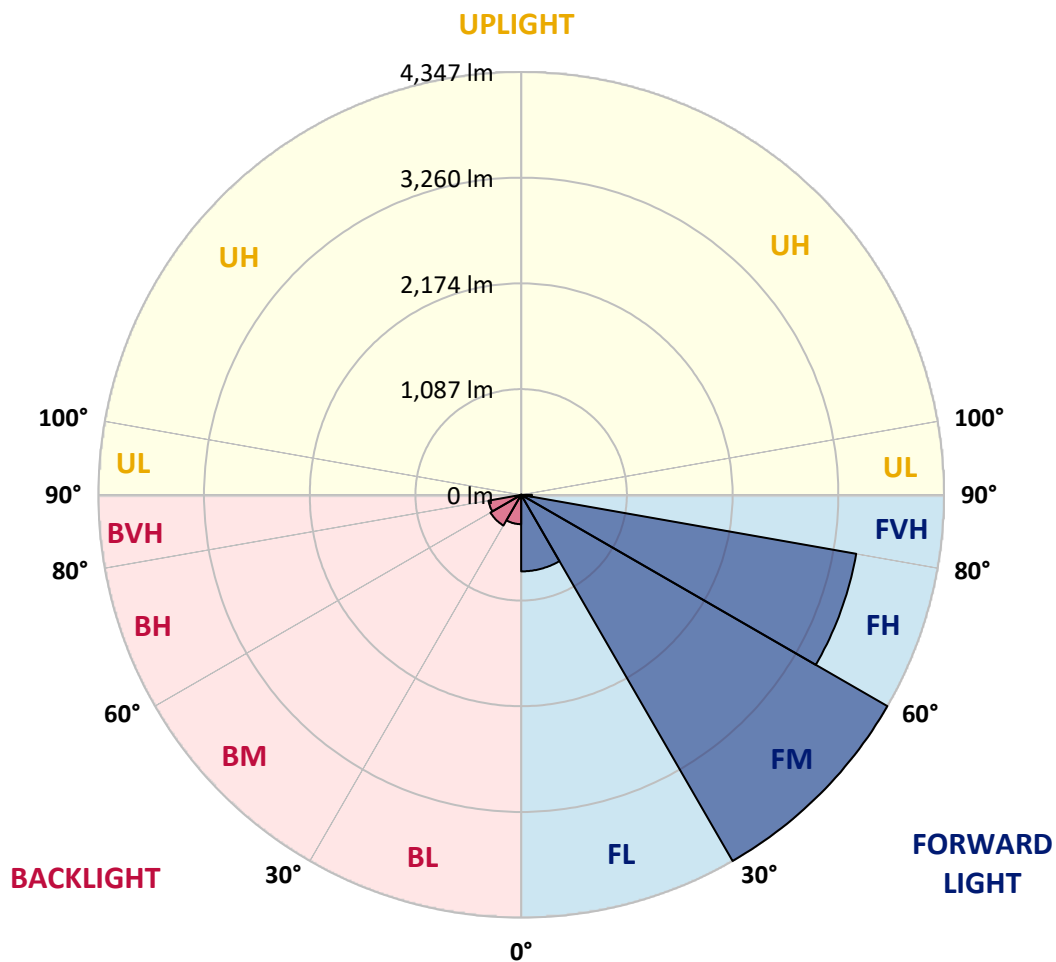
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 787.1 | 8.1 | | | |
| FM | (30°-60°) | 4347.2 | 44.6 | | | |
| FH | (60°-80°) | 3497.5 | 35.9 | | | G2/5000 |
| FVH | (80°-90°) | 111.0 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 302.3 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 364.0 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 341.4 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.2 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 |
| 2.5° | 2224.3 | 2228.9 | 2228.4 | 2231.7 | 2239.7 | 2240.3 | 2232.2 | 2217.0 | 2213.5 | 2193.6 | 2158.9 |
| 5° | 2051.4 | 2064.5 | 2072.4 | 2104.9 | 2141.3 | 2185.0 | 2218.1 | 2230.0 | 2228.4 | 2214.1 | 2161.7 |
| 7.5° | 1853.9 | 1867.0 | 1876.1 | 1914.2 | 1962.7 | 2037.6 | 2123.7 | 2194.2 | 2200.5 | 2215.8 | 2159.5 |
| 10° | 1722.5 | 1724.7 | 1737.2 | 1773.8 | 1824.3 | 1901.1 | 2003.6 | 2127.1 | 2145.9 | 2202.1 | 2153.8 |
| 12.5° | 1614.3 | 1616.1 | 1632.6 | 1671.7 | 1725.9 | 1803.3 | 1910.8 | 2053.6 | 2082.7 | 2185.0 | 2152.6 |
| 15° | 1537.5 | 1543.9 | 1558.6 | 1599.5 | 1657.0 | 1733.8 | 1844.2 | 1999.6 | 2034.3 | 2178.8 | 2162.9 |
| 17.5° | 1511.9 | 1518.7 | 1523.3 | 1552.9 | 1605.2 | 1680.3 | 1793.6 | 1964.3 | 2003.6 | 2182.2 | 2182.8 |
| 20° | 1538.7 | 1543.9 | 1533.6 | 1540.9 | 1573.4 | 1640.5 | 1750.9 | 1934.1 | 1980.8 | 2186.2 | 2208.4 |
| 22.5° | 1638.3 | 1640.5 | 1612.6 | 1580.2 | 1574.5 | 1611.5 | 1717.3 | 1910.3 | 1960.3 | 2196.9 | 2238.6 |
| 25° | 1808.9 | 1805.0 | 1759.4 | 1689.4 | 1623.5 | 1606.3 | 1697.5 | 1895.4 | 1950.1 | 2208.4 | 2269.9 |
| 27.5° | 2015.0 | 2020.6 | 1958.0 | 1856.2 | 1730.4 | 1640.5 | 1694.6 | 1889.2 | 1945.5 | 2216.4 | 2297.1 |
| 30° | 2265.3 | 2273.2 | 2201.6 | 2073.5 | 1893.1 | 1724.7 | 1720.8 | 1888.0 | 1942.6 | 2211.3 | 2299.5 |
| 32.5° | 2520.8 | 2530.5 | 2474.1 | 2342.1 | 2110.6 | 1865.8 | 1780.0 | 1900.6 | 1948.3 | 2193.6 | 2286.4 |
| 35° | 2788.3 | 2802.0 | 2764.4 | 2651.0 | 2405.4 | 2069.6 | 1884.0 | 1938.7 | 1975.1 | 2192.0 | 2273.2 |
| 37.5° | 3157.6 | 3170.0 | 3099.4 | 2979.4 | 2762.1 | 2342.7 | 2051.4 | 2010.4 | 2038.2 | 2219.3 | 2276.8 |
| 40° | 3709.0 | 3707.2 | 3525.1 | 3341.3 | 3154.1 | 2689.9 | 2286.4 | 2140.2 | 2154.4 | 2301.8 | 2318.8 |
| 42.5° | 4309.8 | 4307.0 | 4037.9 | 3758.4 | 3589.5 | 3117.1 | 2595.4 | 2364.4 | 2354.6 | 2453.6 | 2428.1 |
| 45° | 4773.0 | 4772.5 | 4552.9 | 4238.1 | 4113.5 | 3607.6 | 2994.8 | 2676.2 | 2661.3 | 2700.7 | 2629.6 |
| 47.5° | 4970.5 | 4973.9 | 4863.4 | 4642.1 | 4694.6 | 4271.2 | 3498.4 | 3128.0 | 3105.8 | 3089.9 | 2981.6 |
| 50° | 4816.8 | 4823.7 | 4832.7 | 4789.5 | 5120.7 | 5162.8 | 4173.8 | 3764.7 | 3753.9 | 3682.8 | 3513.8 |
| 52.5° | 4314.9 | 4349.7 | 4456.6 | 4593.8 | 5268.7 | 6018.6 | 5232.8 | 4555.7 | 4497.6 | 4421.9 | 4235.9 |
| 55° | 3469.4 | 3507.6 | 3710.7 | 4043.5 | 5048.5 | 6580.8 | 6716.8 | 5575.4 | 5478.6 | 5252.7 | 4984.2 |
| 57.5° | 2296.1 | 2355.2 | 2650.0 | 3073.4 | 4408.8 | 6671.4 | 8197.5 | 6990.5 | 6653.7 | 6035.2 | 5732.4 |
| 60° | 1265.0 | 1321.8 | 1641.6 | 2025.2 | 3184.3 | 6224.1 | 9193.3 | 8833.1 | 8237.8 | 6909.8 | 6641.1 |
| 62.5° | 779.0 | 809.7 | 1045.8 | 1402.7 | 1909.7 | 4912.4 | 9399.2 | 11148.5 | 10459.4 | 8035.8 | 7738.9 |
| 65° | 620.3 | 633.3 | 748.9 | 1146.5 | 1369.1 | 2921.9 | 8734.0 | 12913.6 | 12683.7 | 9399.2 | 8721.5 |
| 67° | 602.0 | 607.2 | 661.8 | 984.4 | 1290.6 | 1791.3 | 7317.2 | 13200.9 | 13434.3 | 10224.4 | 8752.2 |
| 67.5° | 606.1 | 611.8 | 663.5 | 939.5 | 1288.2 | 1646.2 | 6828.9 | 13087.7 | 13382.5 | 10289.8 | 8616.3 |
| 70° | 584.4 | 602.0 | 759.7 | 938.9 | 1225.2 | 1367.9 | 4089.6 | 11339.7 | 11646.4 | 9560.8 | 7310.9 |
| 72.5° | 207.1 | 208.2 | 328.4 | 759.7 | 1332.1 | 1382.7 | 2053.6 | 8313.0 | 8540.0 | 7313.7 | 5270.8 |
| 75° | 122.9 | 104.7 | 109.3 | 216.3 | 1272.9 | 1342.9 | 1184.7 | 5311.8 | 5396.7 | 4190.8 | 2669.3 |
| 77.5° | 84.7 | 74.0 | 76.3 | 95.6 | 484.8 | 1324.1 | 941.2 | 2770.0 | 2679.6 | 1469.7 | 568.4 |
| 80° | 48.4 | 42.7 | 45.6 | 83.7 | 176.5 | 1235.4 | 887.7 | 1123.3 | 957.6 | 249.2 | 157.0 |
| 82.5° | 25.5 | 21.7 | 26.2 | 68.9 | 122.9 | 769.9 | 889.4 | 542.9 | 430.2 | 84.2 | 107.0 |
| 85° | 9.1 | 7.4 | 12.6 | 47.2 | 82.0 | 236.1 | 824.6 | 456.3 | 358.5 | 41.0 | 81.4 |
| 87.5° | 1.7 | 1.7 | 5.1 | 19.3 | 33.0 | 72.2 | 487.7 | 270.9 | 181.5 | 24.5 | 55.7 |
| 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° | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 | 2151.6 |
| 2.5° | 2144.6 | 2120.1 | 2087.2 | 2046.8 | 1999.0 | 1957.0 | 1925.5 | 1893.1 | 1886.4 | 1875.0 | 1873.2 |
| 5° | 2130.4 | 2088.4 | 2006.4 | 1912.5 | 1812.4 | 1721.9 | 1648.5 | 1583.0 | 1554.0 | 1529.0 | 1526.2 |
| 7.5° | 2109.4 | 2046.2 | 1906.8 | 1755.5 | 1599.0 | 1456.8 | 1336.1 | 1250.7 | 1172.3 | 1134.6 | 1128.9 |
| 10° | 2084.8 | 1994.4 | 1794.7 | 1584.7 | 1368.5 | 1167.7 | 988.4 | 838.1 | 747.2 | 693.0 | 686.2 |
| 12.5° | 2062.2 | 1943.8 | 1680.3 | 1407.8 | 1120.5 | 851.7 | 621.3 | 478.0 | 382.4 | 343.7 | 339.1 |
| 15° | 2051.4 | 1902.9 | 1573.4 | 1226.9 | 861.0 | 542.3 | 339.7 | 262.9 | 231.6 | 222.5 | 221.9 |
| 17.5° | 2050.2 | 1868.2 | 1468.7 | 1039.6 | 603.2 | 315.2 | 221.4 | 202.0 | 195.8 | 193.5 | 193.5 |
| 20° | 2049.6 | 1835.1 | 1364.0 | 845.5 | 383.0 | 210.0 | 184.3 | 179.8 | 175.3 | 172.4 | 172.4 |
| 22.5° | 2055.9 | 1805.5 | 1254.8 | 647.6 | 241.3 | 170.1 | 162.1 | 157.7 | 152.0 | 147.9 | 147.4 |
| 25° | 2062.2 | 1782.8 | 1143.2 | 461.0 | 174.7 | 147.9 | 140.0 | 133.8 | 125.7 | 120.6 | 120.0 |
| 27.5° | 2063.3 | 1754.3 | 1023.6 | 308.4 | 146.2 | 129.2 | 118.9 | 109.3 | 100.2 | 95.0 | 94.5 |
| 30° | 2046.2 | 1706.5 | 891.1 | 208.2 | 129.2 | 112.1 | 98.5 | 88.2 | 79.6 | 75.7 | 75.7 |
| 32.5° | 2012.7 | 1647.3 | 745.4 | 157.0 | 114.9 | 96.1 | 81.4 | 71.7 | 66.0 | 64.4 | 63.7 |
| 35° | 1982.5 | 1583.6 | 595.8 | 133.2 | 103.0 | 81.4 | 66.5 | 60.3 | 57.0 | 56.4 | 55.7 |
| 37.5° | 1964.8 | 1532.4 | 455.2 | 120.6 | 91.7 | 68.3 | 56.4 | 51.8 | 50.0 | 48.9 | 49.5 |
| 40° | 1978.4 | 1489.8 | 336.3 | 110.4 | 80.2 | 57.0 | 47.7 | 45.6 | 43.8 | 43.2 | 43.2 |
| 42.5° | 2038.2 | 1482.3 | 249.7 | 101.3 | 69.4 | 47.2 | 41.5 | 39.9 | 38.7 | 38.1 | 38.7 |
| 45° | 2195.3 | 1527.9 | 194.1 | 92.8 | 58.6 | 39.9 | 35.3 | 34.8 | 34.1 | 34.1 | 34.1 |
| 47.5° | 2431.4 | 1621.7 | 161.6 | 83.0 | 48.9 | 34.1 | 30.7 | 30.1 | 29.6 | 30.1 | 30.1 |
| 50° | 2831.5 | 1793.6 | 144.5 | 73.4 | 40.4 | 29.1 | 26.2 | 26.2 | 26.2 | 26.2 | 26.8 |
| 52.5° | 3439.8 | 2131.5 | 133.2 | 63.7 | 33.0 | 24.5 | 22.2 | 22.2 | 22.7 | 22.7 | 23.4 |
| 55° | 4117.6 | 2579.9 | 122.9 | 54.1 | 27.9 | 20.4 | 18.2 | 18.8 | 19.3 | 19.8 | 19.8 |
| 57.5° | 4852.6 | 3076.7 | 114.4 | 44.4 | 23.9 | 16.5 | 15.4 | 16.0 | 16.5 | 17.6 | 17.6 |
| 60° | 5739.8 | 3614.6 | 101.8 | 34.8 | 19.8 | 13.1 | 11.9 | 13.1 | 14.7 | 16.0 | 16.5 |
| 62.5° | 6714.0 | 4134.6 | 85.9 | 27.4 | 16.5 | 10.3 | 9.8 | 11.9 | 14.2 | 15.4 | 16.0 |
| 65° | 7379.8 | 4297.9 | 66.0 | 22.2 | 12.6 | 7.4 | 7.9 | 10.8 | 13.6 | 15.4 | 15.4 |
| 67° | 7110.0 | 3896.7 | 54.1 | 18.8 | 10.3 | 5.7 | 7.4 | 10.8 | 13.6 | 14.7 | 15.4 |
| 67.5° | 6922.7 | 3739.6 | 51.8 | 18.2 | 9.8 | 5.7 | 7.4 | 10.8 | 13.6 | 15.4 | 15.4 |
| 70° | 5632.9 | 2809.3 | 43.2 | 13.6 | 7.9 | 5.1 | 6.2 | 10.3 | 13.1 | 14.7 | 14.7 |
| 72.5° | 3913.7 | 1732.1 | 38.7 | 9.8 | 6.8 | 4.6 | 5.7 | 9.8 | 12.6 | 14.2 | 14.7 |
| 75° | 1860.6 | 627.0 | 33.0 | 7.4 | 6.2 | 4.0 | 5.1 | 9.8 | 12.6 | 14.2 | 14.2 |
| 77.5° | 379.5 | 145.7 | 26.8 | 6.2 | 5.1 | 4.0 | 4.6 | 9.1 | 11.9 | 13.6 | 13.6 |
| 80° | 124.7 | 56.4 | 19.8 | 5.7 | 5.1 | 4.0 | 4.6 | 8.5 | 11.9 | 13.1 | 13.6 |
| 82.5° | 89.9 | 28.4 | 13.1 | 5.7 | 5.1 | 4.0 | 4.0 | 8.5 | 11.4 | 13.1 | 13.1 |
| 85° | 68.9 | 19.8 | 8.5 | 5.7 | 5.1 | 4.0 | 4.0 | 7.9 | 10.8 | 12.6 | 12.6 |
| 87.5° | 45.6 | 7.9 | 6.8 | 5.7 | 5.1 | 4.0 | 4.0 | 7.9 | 10.3 | 11.9 | 12.6 |
| 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)