

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: P323466

Luminaire Tested: **GAN-SA2A-730-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7419 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

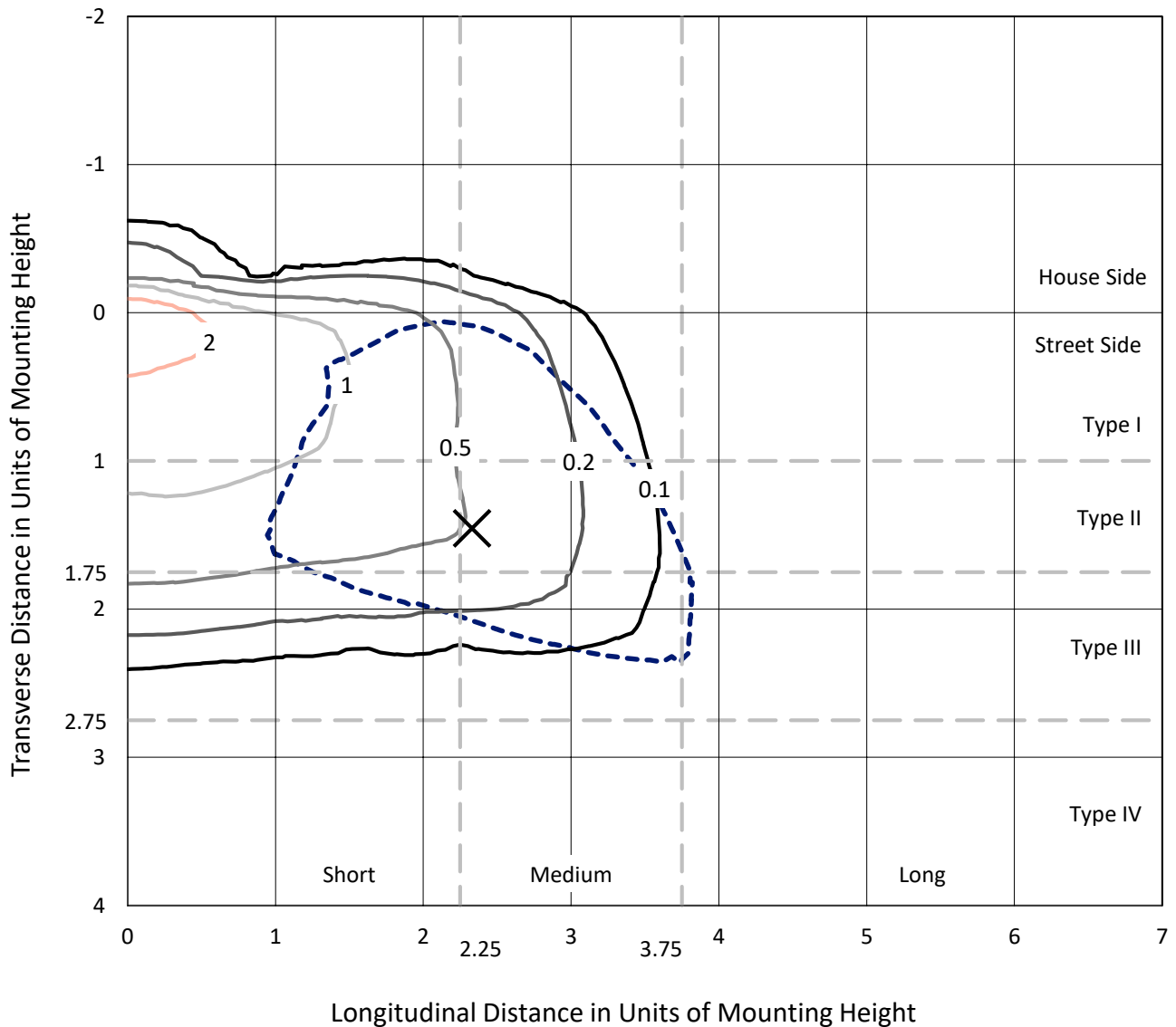
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

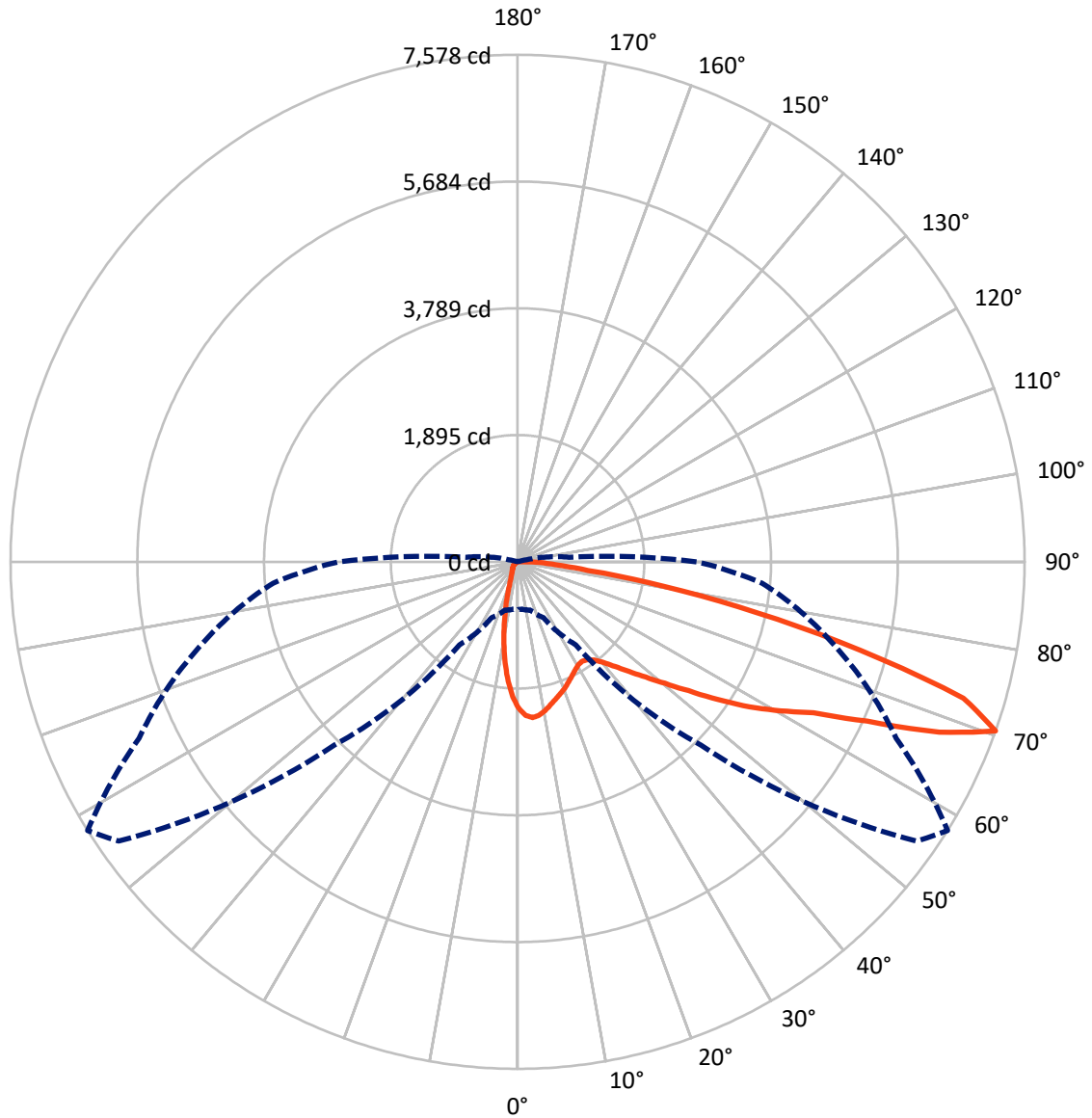
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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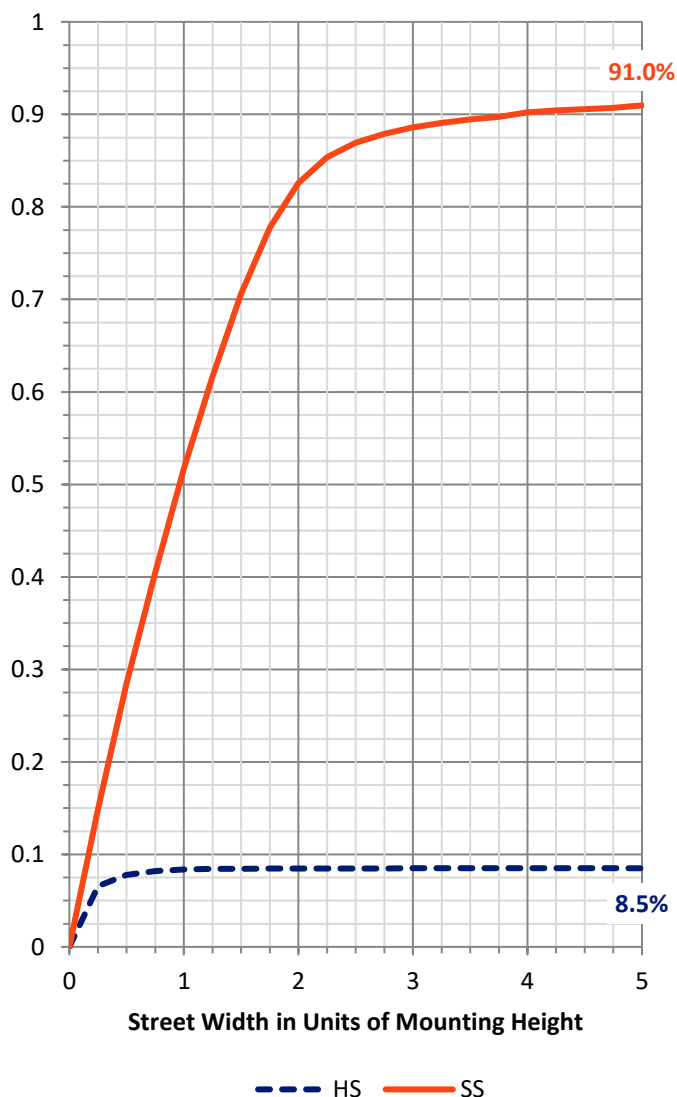
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 634.9 | 0.0 | 634.9 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 6784.1 | 0.0 | 6784.1 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 7419.0 | 0.0 | 7419.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.2 | 2.4 |
| 10°-20° | 376.1 | 5.1 |
| 20°-30° | 494.5 | 6.7 |
| 30°-40° | 654.9 | 8.8 |
| 40°-50° | 978.8 | 13.2 |
| 50°-60° | 1568.1 | 21.1 |
| 60°-70° | 1976.5 | 26.6 |
| 70°-80° | 1066.1 | 14.4 |
| 80°-90° | 124.8 | 1.7 |
| 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° | 7419.0 | 100.0 |
| 0°-180° | 7419.0 | 100.0 |

Coefficient of Utilization

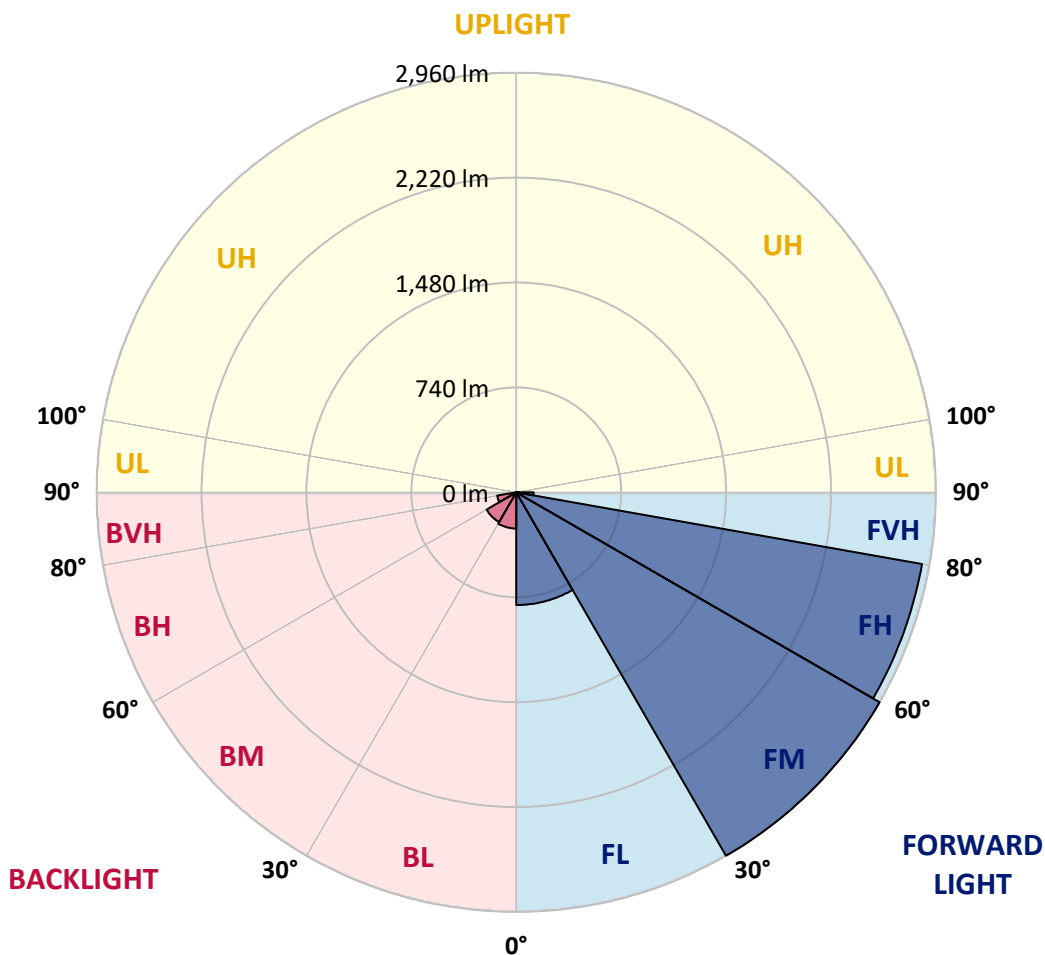


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 794.7 | 10.7 | | | |
| FM (30°-60°) | 2959.6 | 39.9 | | | |
| FH (60°-80°) | 2906.1 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 123.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 255.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 242.2 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 136.5 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 |
| 2.5° | 2373.2 | 2367.4 | 2365.2 | 2361.5 | 2347.3 | 2333.4 | 2306.0 | 2298.3 | 2281.0 | 2240.0 | 2196.5 |
| 5° | 2375.1 | 2374.8 | 2381.3 | 2379.7 | 2374.8 | 2368.3 | 2348.6 | 2338.4 | 2309.1 | 2250.5 | 2170.9 |
| 7.5° | 2260.6 | 2266.5 | 2281.0 | 2292.7 | 2306.3 | 2323.9 | 2326.3 | 2316.5 | 2292.4 | 2229.2 | 2123.7 |
| 10° | 2107.0 | 2116.3 | 2136.6 | 2159.8 | 2195.2 | 2230.4 | 2261.9 | 2260.6 | 2252.3 | 2190.0 | 2066.9 |
| 12.5° | 1953.1 | 1963.9 | 1987.3 | 2021.6 | 2071.8 | 2129.2 | 2185.4 | 2193.1 | 2207.0 | 2154.8 | 2014.5 |
| 15° | 1818.3 | 1827.5 | 1850.7 | 1892.6 | 1954.9 | 2032.0 | 2114.4 | 2128.6 | 2164.4 | 2127.4 | 1970.7 |
| 17.5° | 1703.8 | 1709.7 | 1726.6 | 1773.2 | 1845.4 | 1938.9 | 2045.9 | 2073.7 | 2127.1 | 2105.8 | 1932.7 |
| 20° | 1623.9 | 1624.8 | 1635.9 | 1668.6 | 1740.8 | 1845.4 | 1975.0 | 2014.8 | 2087.6 | 2087.3 | 1893.5 |
| 22.5° | 1584.4 | 1581.3 | 1583.5 | 1602.3 | 1655.4 | 1756.3 | 1904.0 | 1951.2 | 2052.1 | 2071.5 | 1853.7 |
| 25° | 1577.0 | 1574.6 | 1568.4 | 1570.8 | 1602.9 | 1678.2 | 1832.5 | 1887.1 | 2020.9 | 2062.0 | 1819.2 |
| 27.5° | 1600.2 | 1602.6 | 1592.1 | 1581.0 | 1583.5 | 1627.6 | 1768.9 | 1832.1 | 1995.6 | 2062.0 | 1794.8 |
| 30° | 1646.7 | 1648.0 | 1640.3 | 1625.8 | 1606.3 | 1613.4 | 1724.8 | 1788.0 | 1983.0 | 2076.2 | 1779.4 |
| 32.5° | 1698.3 | 1705.0 | 1704.1 | 1692.4 | 1664.6 | 1635.9 | 1714.3 | 1772.0 | 1982.1 | 2107.6 | 1777.8 |
| 35° | 1762.1 | 1769.8 | 1782.8 | 1780.3 | 1751.3 | 1704.1 | 1750.1 | 1795.4 | 2000.3 | 2159.5 | 1794.5 |
| 37.5° | 1830.0 | 1841.7 | 1869.5 | 1882.7 | 1863.9 | 1810.5 | 1830.3 | 1862.7 | 2049.0 | 2243.4 | 1836.8 |
| 40° | 1895.7 | 1909.0 | 1959.6 | 2011.7 | 1997.5 | 1942.6 | 1951.8 | 1977.8 | 2135.7 | 2364.0 | 1917.0 |
| 42.5° | 1960.2 | 1979.9 | 2054.3 | 2140.0 | 2157.0 | 2113.2 | 2118.1 | 2138.8 | 2264.3 | 2530.0 | 2048.1 |
| 45° | 2037.3 | 2059.5 | 2169.6 | 2275.4 | 2320.8 | 2301.7 | 2322.6 | 2336.2 | 2432.5 | 2749.3 | 2224.9 |
| 47.5° | 2150.5 | 2176.1 | 2311.2 | 2431.9 | 2511.4 | 2523.8 | 2566.0 | 2575.0 | 2645.0 | 3004.7 | 2455.3 |
| 50° | 2371.4 | 2378.5 | 2500.6 | 2610.2 | 2724.9 | 2799.0 | 2847.1 | 2853.9 | 2902.3 | 3283.9 | 2743.1 |
| 52.5° | 2649.3 | 2654.0 | 2723.1 | 2796.5 | 2927.0 | 3078.1 | 3190.7 | 3200.3 | 3210.5 | 3556.0 | 3027.2 |
| 55° | 2925.4 | 2924.8 | 2970.5 | 3013.7 | 3163.0 | 3382.6 | 3627.0 | 3632.8 | 3559.7 | 3814.2 | 3244.4 |
| 57.5° | 3097.9 | 3114.5 | 3184.0 | 3239.5 | 3448.0 | 3729.7 | 4068.7 | 4090.3 | 3926.5 | 4005.5 | 3459.1 |
| 60° | 3043.0 | 3051.0 | 3204.9 | 3410.4 | 3803.1 | 4223.0 | 4515.7 | 4521.3 | 4202.3 | 4196.4 | 3730.6 |
| 62.5° | 2592.6 | 2596.9 | 2838.8 | 3262.3 | 3983.0 | 4862.8 | 5055.0 | 4964.6 | 4519.4 | 4461.4 | 4055.5 |
| 65° | 1776.9 | 1805.0 | 2007.1 | 2530.6 | 3652.6 | 5264.1 | 5889.8 | 5740.1 | 5002.8 | 4843.3 | 4349.1 |
| 67.5° | 1046.4 | 1040.5 | 1140.5 | 1526.1 | 2682.7 | 4997.6 | 6945.7 | 6797.0 | 5662.1 | 5099.1 | 4263.1 |
| 70° | 714.8 | 710.8 | 749.0 | 923.9 | 1514.4 | 3876.8 | 7278.0 | 7578.1 | 6244.2 | 4926.9 | 3668.9 |
| 72.5° | 510.2 | 512.4 | 568.9 | 717.9 | 950.8 | 2258.8 | 6258.7 | 6969.2 | 6061.9 | 4295.2 | 2788.8 |
| 75° | 346.4 | 352.3 | 433.1 | 588.9 | 833.5 | 1149.1 | 4441.4 | 5297.8 | 4936.2 | 3121.6 | 1602.9 |
| 77.5° | 186.3 | 192.8 | 288.1 | 474.5 | 753.6 | 798.4 | 2857.0 | 3646.1 | 3100.7 | 1403.3 | 464.6 |
| 80° | 77.7 | 81.4 | 134.8 | 344.9 | 651.2 | 701.2 | 1681.0 | 2211.0 | 1321.3 | 276.7 | 103.7 |
| 82.5° | 33.6 | 35.5 | 56.1 | 205.8 | 486.8 | 592.0 | 890.0 | 1063.7 | 400.4 | 60.8 | 52.1 |
| 85° | 6.5 | 6.8 | 23.1 | 108.9 | 310.7 | 334.1 | 576.9 | 565.5 | 179.9 | 26.2 | 37.9 |
| 87.5° | 0.0 | 0.0 | 5.6 | 34.2 | 91.3 | 182.0 | 352.0 | 347.7 | 61.1 | 12.6 | 14.2 |
| 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° | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 | 2191.5 |
| 2.5° | 2174.3 | 2153.0 | 2108.2 | 2053.0 | 2010.8 | 1964.2 | 1927.2 | 1880.3 | 1859.9 | 1860.8 | 1849.7 |
| 5° | 2125.5 | 2081.7 | 1982.7 | 1857.7 | 1761.5 | 1662.2 | 1576.7 | 1491.6 | 1441.3 | 1424.9 | 1409.5 |
| 7.5° | 2055.8 | 1986.4 | 1828.4 | 1635.9 | 1473.1 | 1313.9 | 1175.4 | 1053.5 | 976.4 | 938.7 | 924.9 |
| 10° | 1977.1 | 1879.7 | 1651.1 | 1397.5 | 1164.9 | 949.5 | 770.0 | 613.9 | 551.6 | 509.3 | 498.5 |
| 12.5° | 1908.0 | 1776.0 | 1477.7 | 1152.8 | 876.7 | 617.0 | 445.8 | 348.6 | 306.3 | 289.7 | 286.9 |
| 15° | 1842.9 | 1679.1 | 1310.8 | 931.3 | 607.1 | 379.8 | 283.5 | 250.5 | 240.6 | 237.8 | 237.8 |
| 17.5° | 1781.5 | 1586.9 | 1147.6 | 713.2 | 401.7 | 266.2 | 234.8 | 227.4 | 224.3 | 224.0 | 224.3 |
| 20° | 1717.4 | 1494.7 | 987.2 | 522.6 | 280.4 | 225.5 | 216.9 | 212.9 | 211.9 | 211.9 | 211.9 |
| 22.5° | 1656.0 | 1402.4 | 831.1 | 373.3 | 224.9 | 205.8 | 201.4 | 198.7 | 197.7 | 197.4 | 196.8 |
| 25° | 1597.1 | 1314.8 | 678.7 | 263.8 | 197.4 | 188.5 | 184.8 | 181.1 | 178.3 | 176.8 | 175.8 |
| 27.5° | 1548.6 | 1236.8 | 536.8 | 211.6 | 178.3 | 170.6 | 166.0 | 160.4 | 153.6 | 150.5 | 149.3 |
| 30° | 1510.1 | 1165.5 | 413.7 | 178.6 | 160.4 | 152.7 | 145.6 | 136.0 | 126.2 | 120.9 | 120.6 |
| 32.5° | 1479.8 | 1095.5 | 314.0 | 157.9 | 144.4 | 134.8 | 124.6 | 112.6 | 101.2 | 95.3 | 95.0 |
| 35° | 1465.0 | 1033.8 | 240.0 | 142.8 | 130.2 | 118.2 | 105.5 | 92.2 | 81.1 | 75.6 | 75.0 |
| 37.5° | 1474.9 | 981.6 | 187.3 | 130.2 | 118.2 | 104.3 | 89.5 | 75.6 | 65.7 | 60.8 | 60.5 |
| 40° | 1511.0 | 948.3 | 152.1 | 119.4 | 108.0 | 91.0 | 75.0 | 62.0 | 53.7 | 49.7 | 49.4 |
| 42.5° | 1587.8 | 936.0 | 129.9 | 110.4 | 98.1 | 78.7 | 62.3 | 51.2 | 43.5 | 40.7 | 40.1 |
| 45° | 1716.1 | 954.2 | 114.8 | 101.8 | 87.9 | 66.9 | 51.5 | 42.0 | 35.2 | 33.0 | 32.7 |
| 47.5° | 1887.1 | 1002.0 | 104.0 | 93.5 | 78.7 | 56.5 | 42.9 | 33.9 | 28.7 | 26.5 | 26.2 |
| 50° | 2107.3 | 1077.9 | 95.0 | 85.1 | 70.0 | 47.8 | 35.5 | 26.8 | 22.2 | 20.7 | 20.7 |
| 52.5° | 2347.0 | 1168.3 | 87.0 | 77.4 | 61.4 | 39.8 | 28.7 | 20.7 | 17.6 | 15.7 | 15.7 |
| 55° | 2545.1 | 1247.2 | 78.4 | 71.6 | 50.9 | 33.0 | 21.9 | 15.7 | 13.0 | 12.0 | 12.0 |
| 57.5° | 2742.8 | 1331.5 | 68.5 | 61.4 | 40.7 | 26.8 | 16.7 | 11.7 | 9.6 | 8.9 | 8.9 |
| 60° | 2999.2 | 1434.5 | 58.9 | 50.0 | 32.1 | 20.4 | 12.3 | 8.3 | 7.1 | 6.8 | 6.8 |
| 62.5° | 3281.1 | 1495.0 | 50.3 | 40.1 | 25.0 | 15.1 | 8.9 | 5.6 | 5.2 | 5.2 | 4.9 |
| 65° | 3453.6 | 1409.5 | 42.3 | 32.1 | 19.4 | 11.4 | 5.9 | 4.0 | 4.6 | 4.3 | 3.7 |
| 67.5° | 3233.6 | 1103.5 | 34.6 | 25.0 | 15.1 | 8.6 | 3.7 | 2.8 | 4.9 | 4.0 | 3.1 |
| 70° | 2677.4 | 772.5 | 26.8 | 17.6 | 12.0 | 7.4 | 2.5 | 1.9 | 5.2 | 4.0 | 2.5 |
| 72.5° | 2003.7 | 517.0 | 21.3 | 11.7 | 8.9 | 6.5 | 2.2 | 0.9 | 4.6 | 3.4 | 2.2 |
| 75° | 1094.8 | 208.2 | 17.0 | 7.4 | 5.6 | 4.6 | 1.5 | 0.6 | 3.1 | 2.5 | 1.5 |
| 77.5° | 288.1 | 54.9 | 12.3 | 4.9 | 3.1 | 1.9 | 0.9 | 0.3 | 1.5 | 1.2 | 0.6 |
| 80° | 73.4 | 21.3 | 8.0 | 3.4 | 2.2 | 0.9 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| 82.5° | 39.2 | 8.9 | 4.9 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.6 | 5.9 | 2.8 | 1.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.4 | 1.9 | 0.9 | 0.0 | 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)