

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386694

Luminaire Tested: GAW-SA2B-827-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386694
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-827-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 7491 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

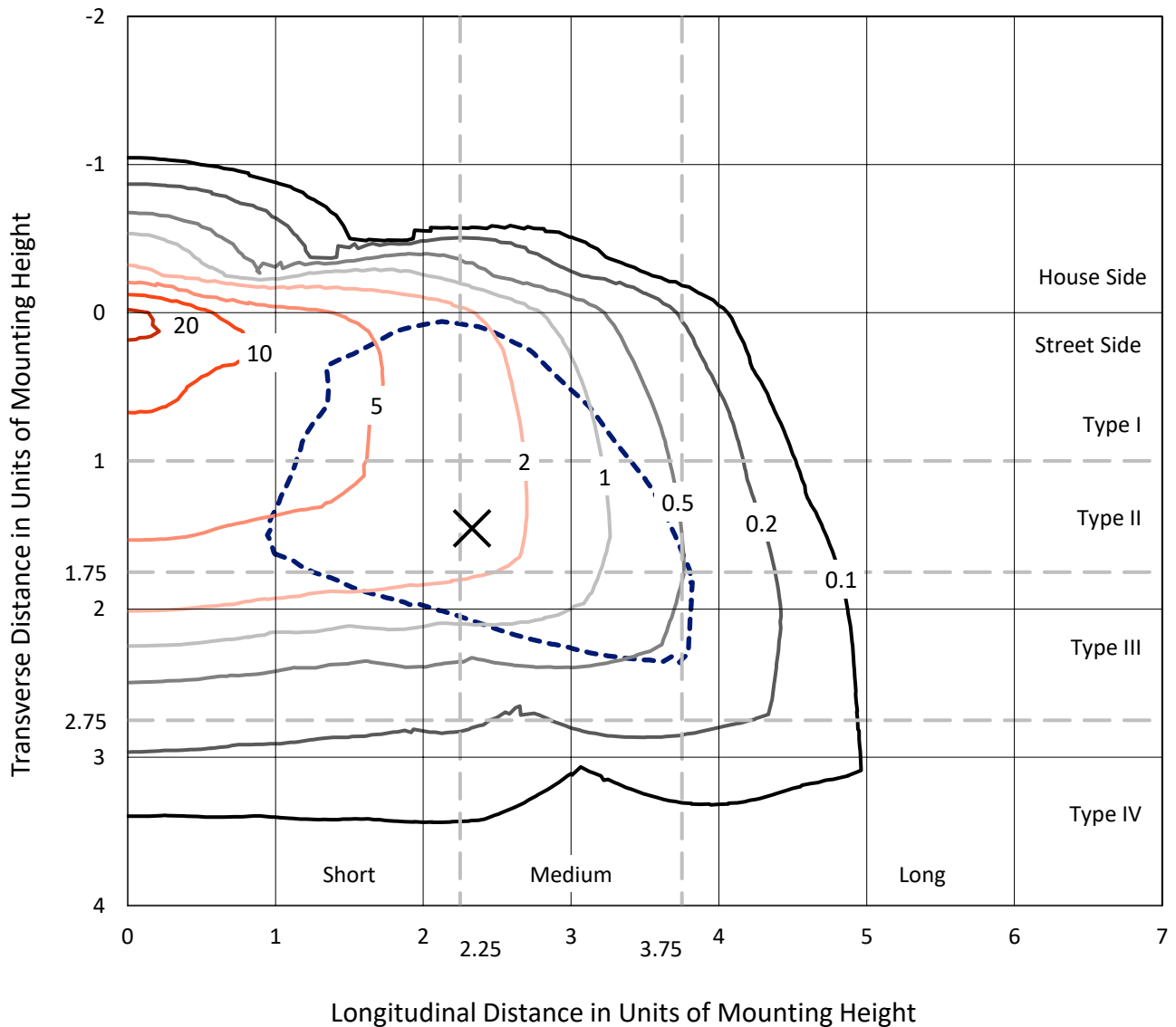
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

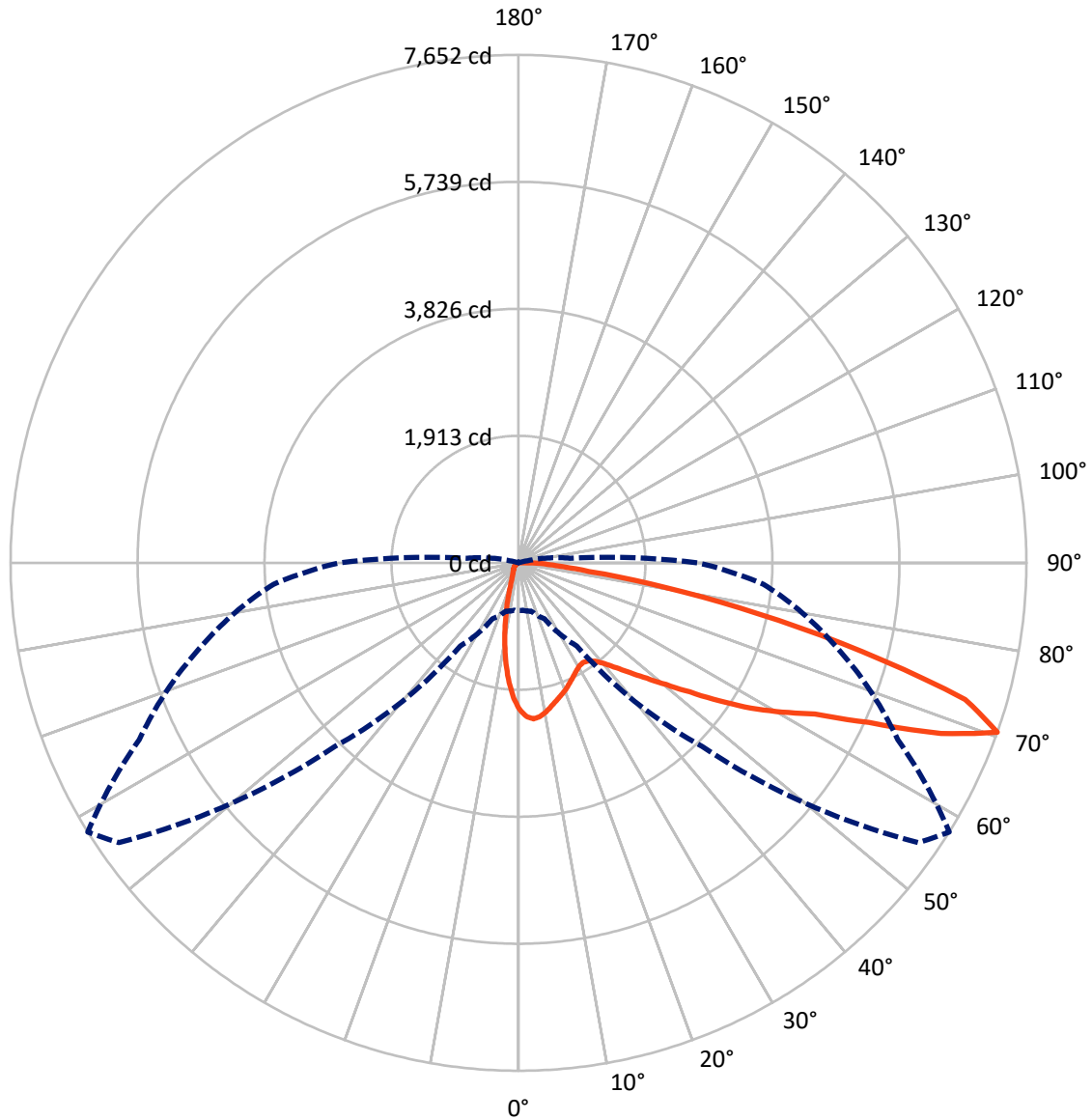
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 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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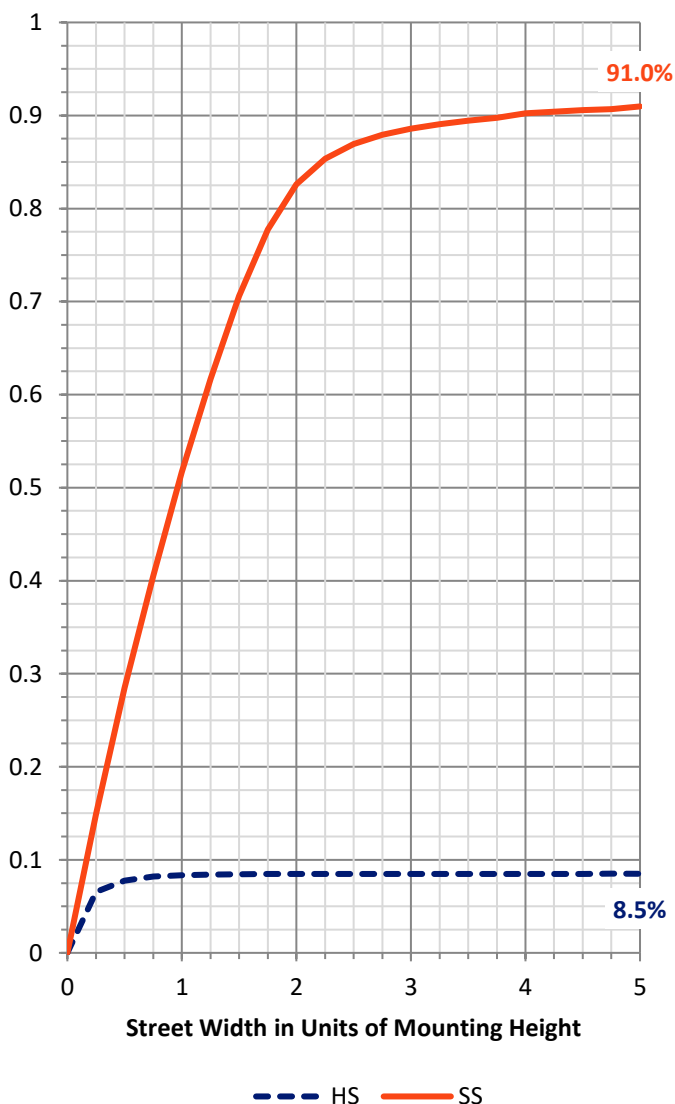
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 641.1 | 0.0 | 641.1 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 6849.9 | 0.0 | 6849.9 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 7491.0 | 0.0 | 7491.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.0 | 2.4 |
| 10°-20° | 379.8 | 5.1 |
| 20°-30° | 499.3 | 6.7 |
| 30°-40° | 661.2 | 8.8 |
| 40°-50° | 988.3 | 13.2 |
| 50°-60° | 1583.3 | 21.1 |
| 60°-70° | 1995.7 | 26.6 |
| 70°-80° | 1076.5 | 14.4 |
| 80°-90° | 126.0 | 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° | 7491.0 | 100.0 |
| 0°-180° | 7491.0 | 100.0 |

Coefficient of Utilization

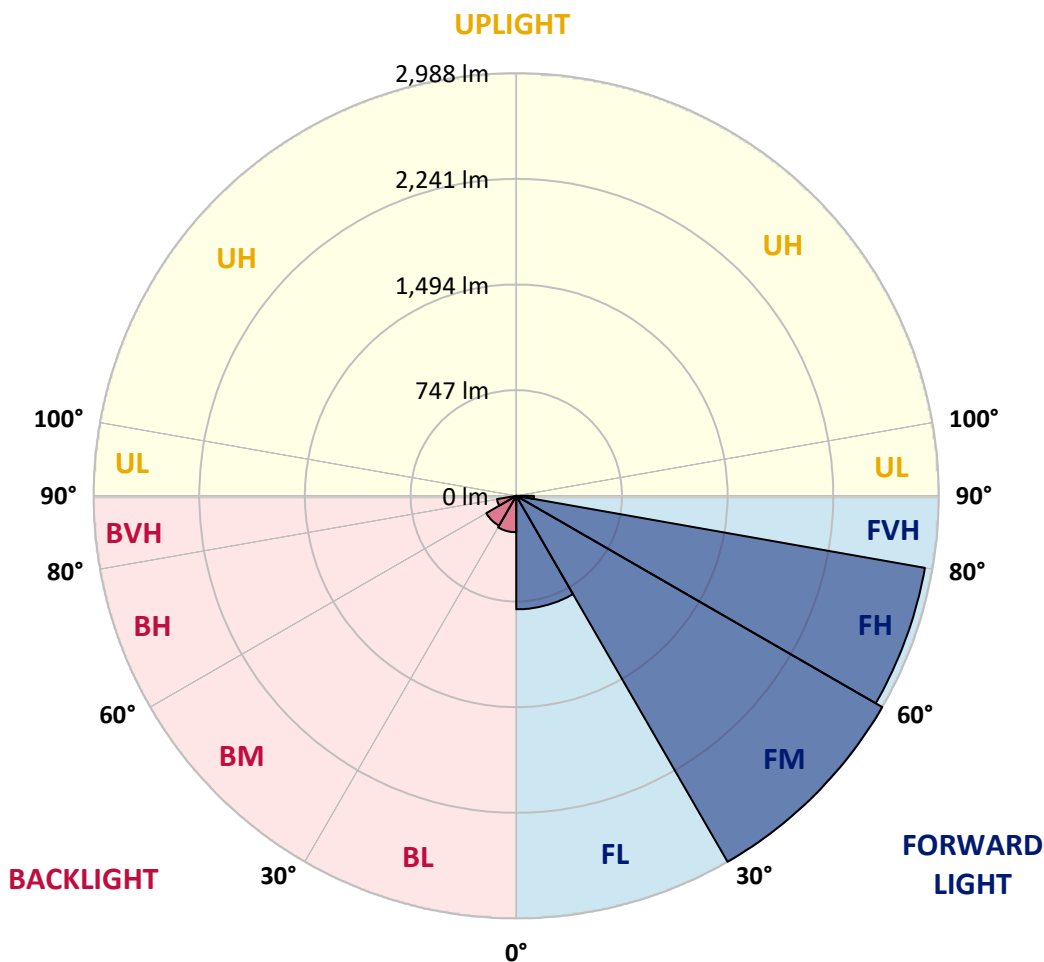


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 802.4 | 10.7 | | | |
| FM (30°-60°) | 2988.3 | 39.9 | | | |
| FH (60°-80°) | 2934.3 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 124.9 | 1.7 | | | G2/225 |
| BL (0°-30°) | 257.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 244.6 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 137.9 | 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° | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 |
| 2.5° | 2396.3 | 2390.4 | 2388.2 | 2384.4 | 2370.1 | 2356.1 | 2328.4 | 2320.6 | 2303.1 | 2261.7 | 2217.8 |
| 5° | 2398.1 | 2397.8 | 2404.4 | 2402.8 | 2397.8 | 2391.3 | 2371.4 | 2361.1 | 2331.5 | 2272.3 | 2191.9 |
| 7.5° | 2282.6 | 2288.5 | 2303.1 | 2315.0 | 2328.7 | 2346.4 | 2348.9 | 2339.0 | 2314.7 | 2250.8 | 2144.3 |
| 10° | 2127.5 | 2136.8 | 2157.4 | 2180.7 | 2216.5 | 2252.1 | 2283.8 | 2282.6 | 2274.2 | 2211.2 | 2087.0 |
| 12.5° | 1972.0 | 1982.9 | 2006.6 | 2041.2 | 2091.9 | 2149.9 | 2206.6 | 2214.4 | 2228.4 | 2175.7 | 2034.0 |
| 15° | 1835.9 | 1845.3 | 1868.6 | 1911.0 | 1973.9 | 2051.8 | 2134.9 | 2149.3 | 2185.4 | 2148.0 | 1989.8 |
| 17.5° | 1720.3 | 1726.3 | 1743.4 | 1790.4 | 1863.3 | 1957.7 | 2065.8 | 2093.8 | 2147.7 | 2126.2 | 1951.5 |
| 20° | 1639.7 | 1640.6 | 1651.8 | 1684.8 | 1757.7 | 1863.3 | 1994.1 | 2034.3 | 2107.8 | 2107.5 | 1911.9 |
| 22.5° | 1599.8 | 1596.7 | 1598.9 | 1617.9 | 1671.4 | 1773.3 | 1922.5 | 1970.2 | 2072.0 | 2091.6 | 1871.7 |
| 25° | 1592.3 | 1589.8 | 1583.6 | 1586.1 | 1618.5 | 1694.5 | 1850.2 | 1905.4 | 2040.6 | 2082.0 | 1836.8 |
| 27.5° | 1615.7 | 1618.2 | 1607.6 | 1596.4 | 1598.9 | 1643.4 | 1786.1 | 1849.9 | 2015.0 | 2082.0 | 1812.2 |
| 30° | 1662.7 | 1664.0 | 1656.2 | 1641.5 | 1621.9 | 1629.1 | 1741.5 | 1805.4 | 2002.2 | 2096.3 | 1796.7 |
| 32.5° | 1714.7 | 1721.6 | 1720.7 | 1708.8 | 1680.8 | 1651.8 | 1730.9 | 1789.2 | 2001.3 | 2128.1 | 1795.1 |
| 35° | 1779.2 | 1787.0 | 1800.1 | 1797.6 | 1768.3 | 1720.7 | 1767.1 | 1812.9 | 2019.7 | 2180.4 | 1811.9 |
| 37.5° | 1847.7 | 1859.6 | 1887.6 | 1901.0 | 1882.0 | 1828.1 | 1848.1 | 1880.8 | 2068.9 | 2265.1 | 1854.6 |
| 40° | 1914.1 | 1927.5 | 1978.6 | 2031.2 | 2016.9 | 1961.4 | 1970.8 | 1996.9 | 2156.4 | 2386.9 | 1935.6 |
| 42.5° | 1979.2 | 1999.1 | 2074.2 | 2160.8 | 2177.9 | 2133.7 | 2138.7 | 2159.5 | 2286.3 | 2554.5 | 2068.0 |
| 45° | 2057.1 | 2079.5 | 2190.7 | 2297.5 | 2343.3 | 2324.0 | 2345.2 | 2358.9 | 2456.1 | 2776.0 | 2246.4 |
| 47.5° | 2171.4 | 2197.2 | 2333.7 | 2455.5 | 2535.8 | 2548.3 | 2591.0 | 2600.0 | 2670.7 | 3033.9 | 2479.1 |
| 50° | 2394.4 | 2401.6 | 2524.9 | 2635.5 | 2751.4 | 2826.1 | 2874.7 | 2881.6 | 2930.5 | 3315.8 | 2769.7 |
| 52.5° | 2675.1 | 2679.7 | 2749.5 | 2823.6 | 2955.4 | 3108.0 | 3221.7 | 3231.4 | 3241.6 | 3590.5 | 3056.6 |
| 55° | 2953.8 | 2953.2 | 2999.3 | 3042.9 | 3193.7 | 3415.5 | 3662.2 | 3668.1 | 3594.3 | 3851.2 | 3275.9 |
| 57.5° | 3128.0 | 3144.8 | 3214.9 | 3270.9 | 3481.5 | 3765.9 | 4108.2 | 4130.0 | 3964.6 | 4044.4 | 3492.7 |
| 60° | 3072.5 | 3080.6 | 3236.0 | 3443.5 | 3840.0 | 4263.9 | 4559.6 | 4565.2 | 4243.1 | 4237.2 | 3766.8 |
| 62.5° | 2617.7 | 2622.1 | 2866.3 | 3294.0 | 4021.6 | 4910.0 | 5104.0 | 5012.8 | 4563.3 | 4504.7 | 4094.8 |
| 65° | 1794.2 | 1822.5 | 2026.5 | 2555.1 | 3688.0 | 5315.2 | 5946.9 | 5795.8 | 5051.4 | 4890.4 | 4391.3 |
| 67.5° | 1056.6 | 1050.6 | 1151.6 | 1540.9 | 2708.7 | 5046.1 | 7013.1 | 6863.0 | 5717.0 | 5148.6 | 4304.4 |
| 70° | 721.7 | 717.7 | 756.3 | 932.9 | 1529.1 | 3914.5 | 7348.6 | 7651.7 | 6304.8 | 4974.8 | 3704.5 |
| 72.5° | 515.2 | 517.4 | 574.4 | 724.8 | 960.0 | 2280.7 | 6319.5 | 7036.8 | 6120.7 | 4336.8 | 2815.8 |
| 75° | 349.8 | 355.7 | 437.3 | 594.6 | 841.6 | 1160.3 | 4484.5 | 5349.2 | 4984.1 | 3151.9 | 1618.5 |
| 77.5° | 188.1 | 194.7 | 290.9 | 479.1 | 761.0 | 806.1 | 2884.7 | 3681.5 | 3130.8 | 1417.0 | 469.1 |
| 80° | 78.5 | 82.2 | 136.1 | 348.2 | 657.5 | 708.0 | 1697.3 | 2232.4 | 1334.1 | 279.4 | 104.7 |
| 82.5° | 34.0 | 35.8 | 56.7 | 207.8 | 491.5 | 597.7 | 898.6 | 1074.0 | 404.3 | 61.4 | 52.6 |
| 85° | 6.5 | 6.9 | 23.4 | 110.0 | 313.7 | 337.3 | 582.5 | 571.0 | 181.6 | 26.5 | 38.3 |
| 87.5° | 0.0 | 0.0 | 5.6 | 34.6 | 92.2 | 183.8 | 355.4 | 351.0 | 61.7 | 12.8 | 14.3 |
| 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° | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 | 2212.8 |
| 2.5° | 2195.4 | 2173.9 | 2128.7 | 2072.9 | 2030.3 | 1983.2 | 1945.9 | 1898.5 | 1878.0 | 1878.9 | 1867.7 |
| 5° | 2146.1 | 2101.9 | 2001.9 | 1875.8 | 1778.6 | 1678.3 | 1592.0 | 1506.0 | 1455.3 | 1438.8 | 1423.2 |
| 7.5° | 2075.8 | 2005.7 | 1846.2 | 1651.8 | 1487.4 | 1326.6 | 1186.8 | 1063.7 | 985.9 | 947.9 | 933.8 |
| 10° | 1996.3 | 1897.9 | 1667.1 | 1411.0 | 1176.2 | 958.8 | 777.5 | 619.9 | 556.9 | 514.3 | 503.4 |
| 12.5° | 1926.5 | 1793.2 | 1492.0 | 1164.0 | 885.2 | 623.0 | 450.1 | 352.0 | 309.3 | 292.5 | 289.7 |
| 15° | 1860.8 | 1695.4 | 1323.5 | 940.4 | 613.0 | 383.4 | 286.3 | 252.9 | 243.0 | 240.2 | 240.2 |
| 17.5° | 1798.8 | 1602.3 | 1158.7 | 720.2 | 405.6 | 268.8 | 237.0 | 229.6 | 226.5 | 226.1 | 226.5 |
| 20° | 1734.0 | 1509.2 | 996.8 | 527.7 | 283.1 | 227.7 | 219.0 | 214.9 | 214.0 | 214.0 | 214.0 |
| 22.5° | 1672.1 | 1416.0 | 839.1 | 376.9 | 227.1 | 207.8 | 203.4 | 200.6 | 199.7 | 199.4 | 198.7 |
| 25° | 1612.6 | 1327.6 | 685.3 | 266.3 | 199.4 | 190.3 | 186.6 | 182.8 | 180.0 | 178.5 | 177.5 |
| 27.5° | 1563.7 | 1248.8 | 542.0 | 213.7 | 180.0 | 172.3 | 167.6 | 162.0 | 155.1 | 152.0 | 150.8 |
| 30° | 1524.7 | 1176.8 | 417.7 | 180.4 | 162.0 | 154.2 | 147.0 | 137.4 | 127.4 | 122.1 | 121.8 |
| 32.5° | 1494.2 | 1106.1 | 317.1 | 159.5 | 145.8 | 136.1 | 125.8 | 113.7 | 102.2 | 96.2 | 95.9 |
| 35° | 1479.3 | 1043.8 | 242.3 | 144.2 | 131.4 | 119.3 | 106.5 | 93.1 | 81.9 | 76.3 | 75.7 |
| 37.5° | 1489.2 | 991.2 | 189.1 | 131.4 | 119.3 | 105.3 | 90.3 | 76.3 | 66.3 | 61.4 | 61.1 |
| 40° | 1525.7 | 957.5 | 153.6 | 120.5 | 109.0 | 91.9 | 75.7 | 62.6 | 54.2 | 50.1 | 49.8 |
| 42.5° | 1603.2 | 945.1 | 131.1 | 111.5 | 99.1 | 79.4 | 62.9 | 51.7 | 43.9 | 41.1 | 40.5 |
| 45° | 1732.8 | 963.4 | 115.9 | 102.8 | 88.8 | 67.6 | 52.0 | 42.4 | 35.5 | 33.3 | 33.0 |
| 47.5° | 1905.4 | 1011.7 | 105.0 | 94.4 | 79.4 | 57.0 | 43.3 | 34.3 | 29.0 | 26.8 | 26.5 |
| 50° | 2127.8 | 1088.3 | 95.9 | 86.0 | 70.7 | 48.3 | 35.8 | 27.1 | 22.4 | 20.9 | 20.9 |
| 52.5° | 2369.8 | 1179.6 | 87.8 | 78.2 | 62.0 | 40.2 | 29.0 | 20.9 | 17.8 | 15.9 | 15.9 |
| 55° | 2569.8 | 1259.3 | 79.1 | 72.3 | 51.4 | 33.3 | 22.1 | 15.9 | 13.1 | 12.1 | 12.1 |
| 57.5° | 2769.4 | 1344.4 | 69.2 | 62.0 | 41.1 | 27.1 | 16.8 | 11.8 | 9.7 | 9.0 | 9.0 |
| 60° | 3028.3 | 1448.4 | 59.5 | 50.5 | 32.4 | 20.6 | 12.5 | 8.4 | 7.2 | 6.9 | 6.9 |
| 62.5° | 3313.0 | 1509.5 | 50.8 | 40.5 | 25.2 | 15.3 | 9.0 | 5.6 | 5.3 | 5.3 | 5.0 |
| 65° | 3487.1 | 1423.2 | 42.7 | 32.4 | 19.6 | 11.5 | 5.9 | 4.0 | 4.7 | 4.4 | 3.7 |
| 67.5° | 3265.0 | 1114.2 | 34.9 | 25.2 | 15.3 | 8.7 | 3.7 | 2.8 | 5.0 | 4.0 | 3.1 |
| 70° | 2703.4 | 780.0 | 27.1 | 17.8 | 12.1 | 7.5 | 2.5 | 1.9 | 5.3 | 4.0 | 2.5 |
| 72.5° | 2023.1 | 522.1 | 21.5 | 11.8 | 9.0 | 6.5 | 2.2 | 0.9 | 4.7 | 3.4 | 2.2 |
| 75° | 1105.5 | 210.3 | 17.1 | 7.5 | 5.6 | 4.7 | 1.6 | 0.6 | 3.1 | 2.5 | 1.6 |
| 77.5° | 290.9 | 55.4 | 12.5 | 5.0 | 3.1 | 1.9 | 0.9 | 0.3 | 1.6 | 1.2 | 0.6 |
| 80° | 74.1 | 21.5 | 8.1 | 3.4 | 2.2 | 0.9 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 |
| 82.5° | 39.6 | 9.0 | 5.0 | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 29.9 | 5.9 | 2.8 | 1.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.5 | 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)