

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: P483848

Luminaire Tested: **IFLD-S-SA2D-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483848
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

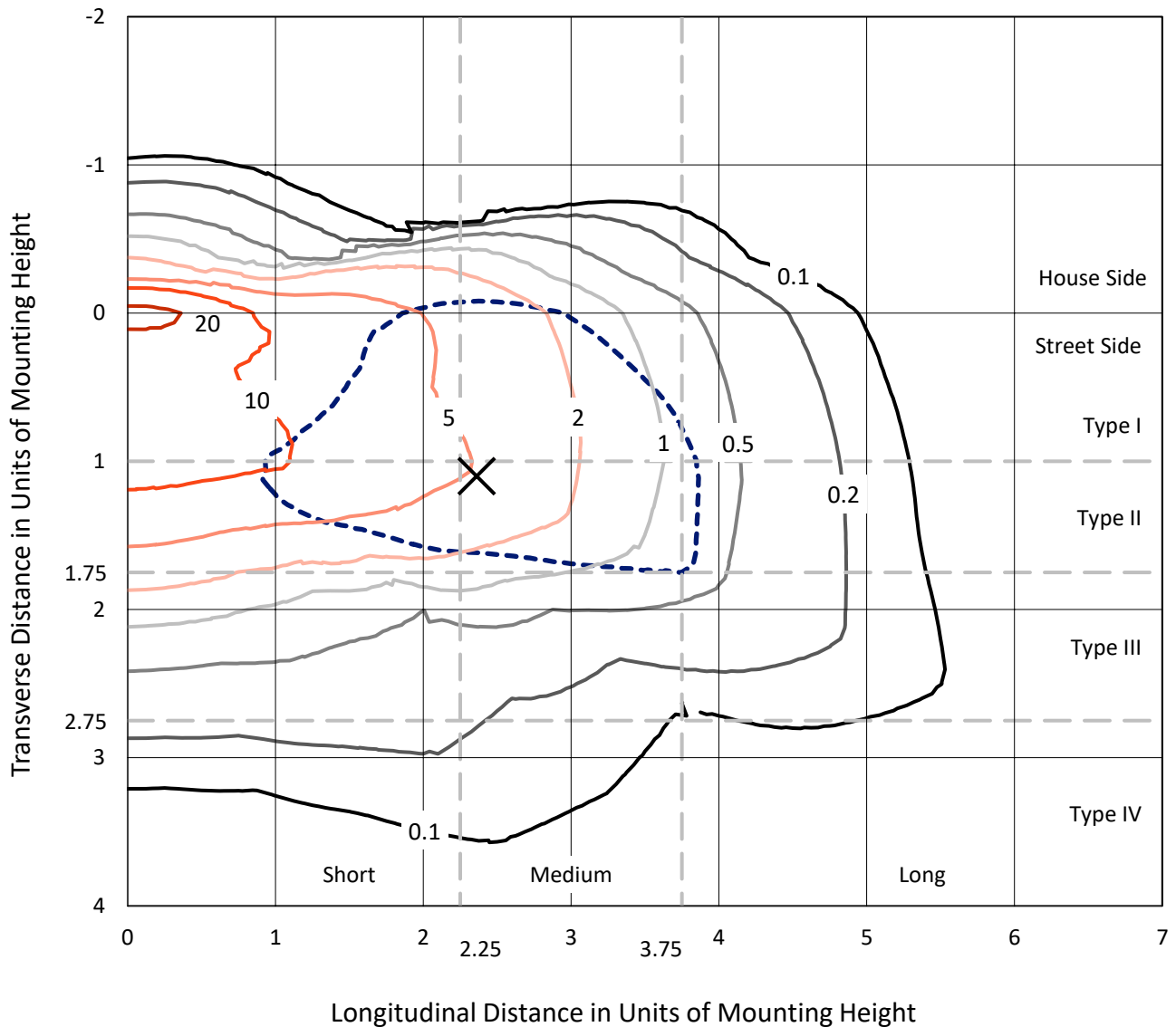
Lumens per Lamp: N/A
Luminaire Lumens: 9481.6 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
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

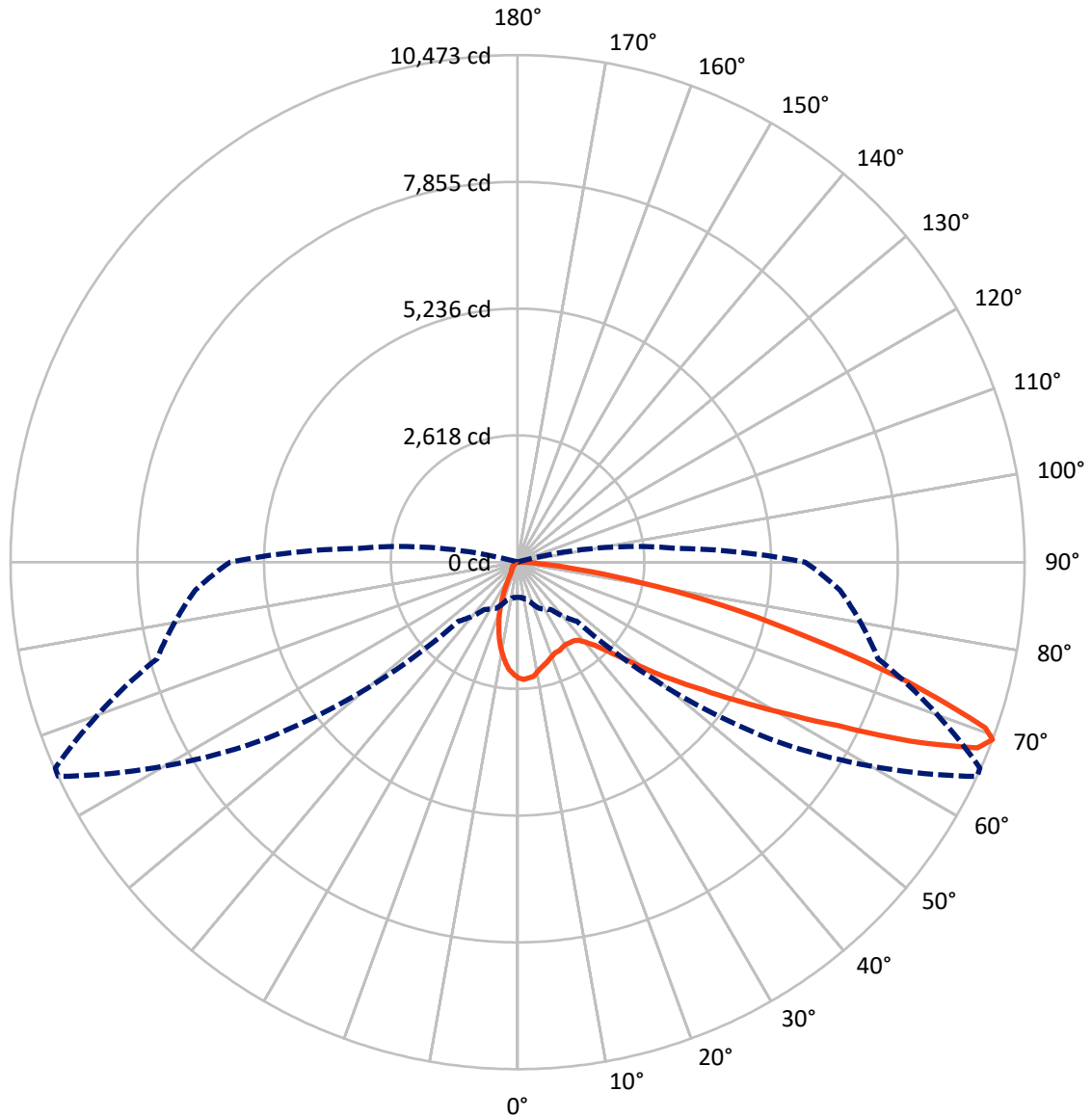
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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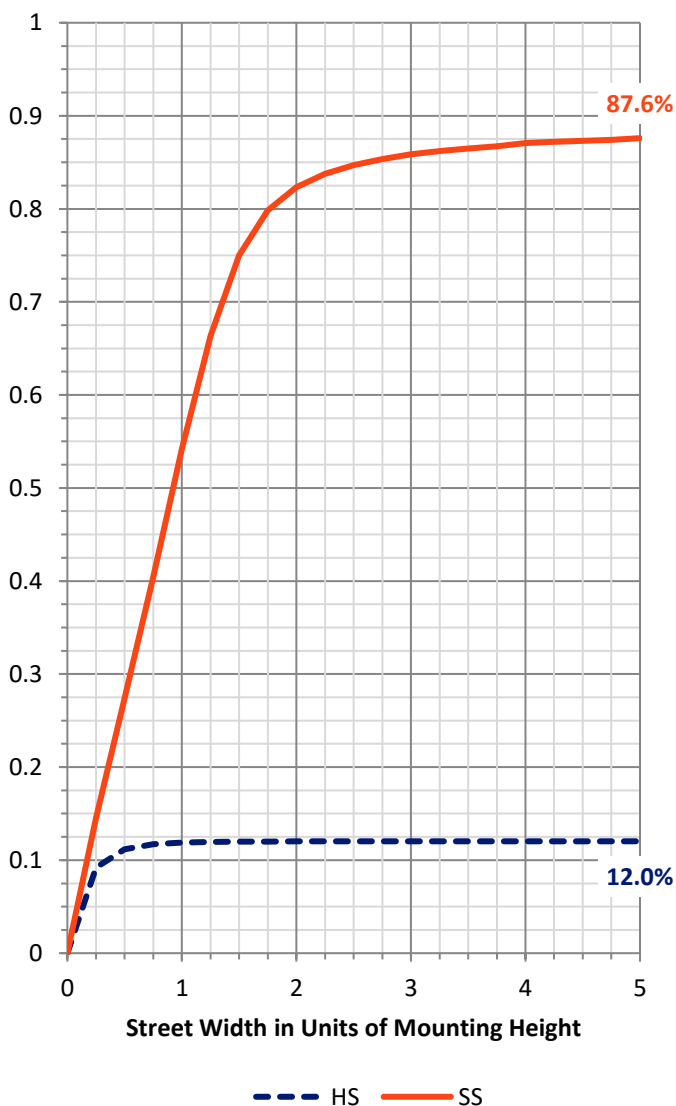
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1150.2 | 0.0 | 1150.2 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 8331.4 | 0.0 | 8331.4 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 9481.6 | 0.0 | 9481.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 195.6 | 2.1 |
| 10°-20° | 428.0 | 4.5 |
| 20°-30° | 595.9 | 6.3 |
| 30°-40° | 844.5 | 8.9 |
| 40°-50° | 1330.8 | 14.0 |
| 50°-60° | 2159.5 | 22.8 |
| 60°-70° | 2411.7 | 25.4 |
| 70°-80° | 1358.1 | 14.3 |
| 80°-90° | 157.6 | 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° | 9481.6 | 100.0 |
| 0°-180° | 9481.6 | 100.0 |

Coefficient of Utilization

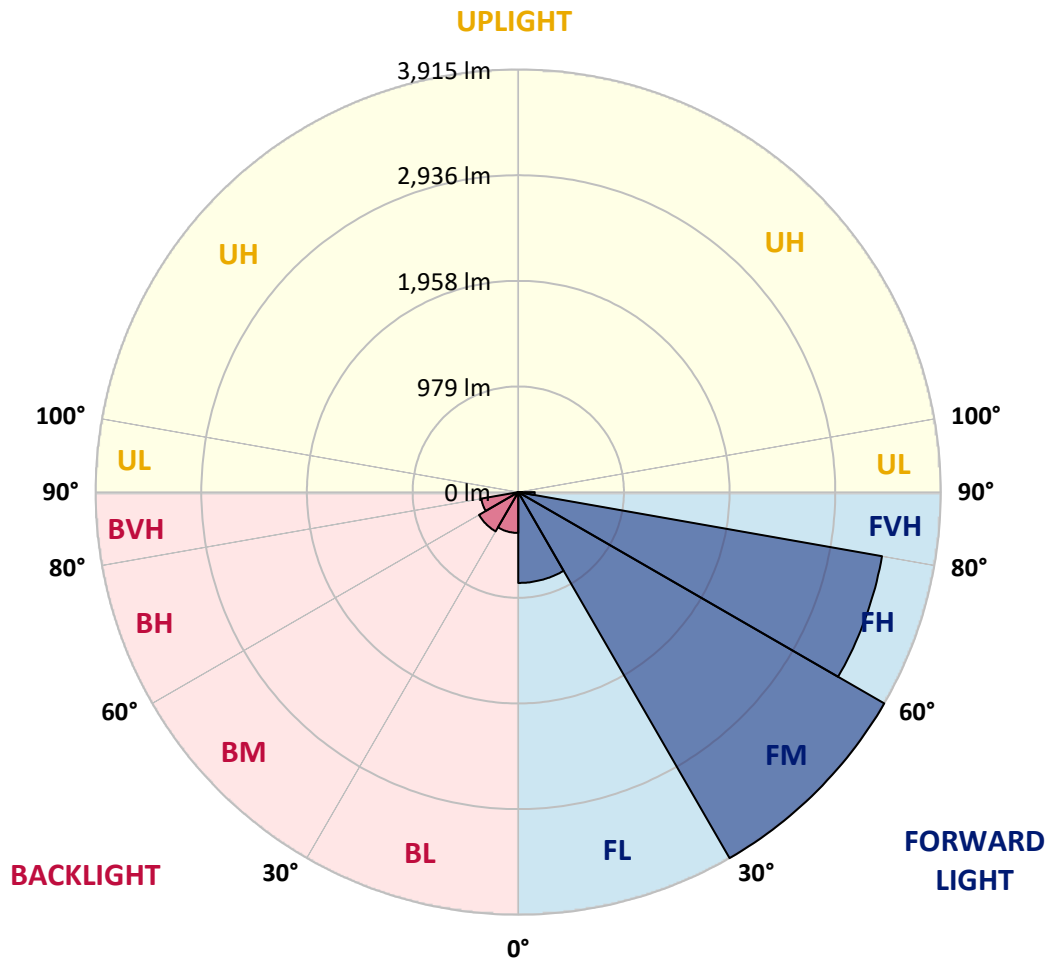


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 841.4 | 8.9 | | | |
| FM (30°-60°) | 3915.0 | 41.3 | | | |
| FH (60°-80°) | 3421.8 | 36.1 | | | G2/5000 |
| FVH (80°-90°) | 153.2 | 1.6 | | | G2/225 |
| BL (0°-30°) | 378.1 | 4.0 | B1/500 | | |
| BM (30°-60°) | 419.7 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 348.0 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.3 | 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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 |
| 2.5° | 2302.3 | 2320.2 | 2325.3 | 2343.2 | 2352.2 | 2390.5 | 2412.3 | 2425.1 | 2418.7 | 2432.7 | 2434.0 |
| 5° | 2138.6 | 2128.3 | 2155.2 | 2174.4 | 2215.3 | 2281.8 | 2349.6 | 2402.0 | 2426.4 | 2449.4 | 2445.5 |
| 7.5° | 1963.3 | 1958.2 | 1985.1 | 2028.6 | 2065.7 | 2146.2 | 2255.0 | 2384.1 | 2379.0 | 2435.3 | 2451.9 |
| 10° | 1843.1 | 1848.2 | 1857.2 | 1900.7 | 1955.7 | 2037.5 | 2173.1 | 2293.3 | 2320.2 | 2439.1 | 2472.4 |
| 12.5° | 1733.1 | 1742.1 | 1758.7 | 1803.5 | 1867.4 | 1951.8 | 2083.6 | 2224.3 | 2265.2 | 2417.4 | 2483.9 |
| 15° | 1697.3 | 1676.8 | 1710.1 | 1743.3 | 1809.9 | 1885.3 | 1996.6 | 2171.8 | 2189.7 | 2391.8 | 2503.1 |
| 17.5° | 1667.9 | 1655.1 | 1670.4 | 1697.3 | 1767.6 | 1829.0 | 1933.9 | 2115.5 | 2148.8 | 2381.6 | 2500.5 |
| 20° | 1676.8 | 1665.3 | 1671.7 | 1692.2 | 1724.2 | 1781.7 | 1878.9 | 2061.8 | 2097.6 | 2334.3 | 2496.7 |
| 22.5° | 1702.4 | 1711.4 | 1699.9 | 1705.0 | 1715.2 | 1744.6 | 1849.5 | 2023.5 | 2054.1 | 2325.3 | 2518.4 |
| 25° | 1817.5 | 1802.2 | 1786.8 | 1780.4 | 1720.3 | 1733.1 | 1840.5 | 2020.9 | 2042.6 | 2293.3 | 2500.5 |
| 27.5° | 1937.8 | 1925.0 | 1918.6 | 1881.5 | 1799.6 | 1761.2 | 1841.8 | 1985.1 | 2014.5 | 2280.5 | 2478.8 |
| 30° | 2083.6 | 2100.2 | 2074.6 | 2029.8 | 1916.0 | 1821.4 | 1855.9 | 1967.2 | 2008.1 | 2231.9 | 2464.7 |
| 32.5° | 2237.1 | 2246.0 | 2258.8 | 2225.5 | 2078.5 | 1912.2 | 1898.1 | 1983.8 | 1986.4 | 2231.9 | 2432.7 |
| 35° | 2411.0 | 2398.2 | 2431.5 | 2434.0 | 2304.8 | 2073.3 | 1978.7 | 1995.3 | 2022.2 | 2221.7 | 2421.2 |
| 37.5° | 2560.7 | 2582.4 | 2620.8 | 2682.2 | 2549.1 | 2301.0 | 2104.0 | 2049.0 | 2060.5 | 2269.0 | 2430.2 |
| 40° | 2724.4 | 2746.1 | 2833.1 | 2894.5 | 2819.0 | 2556.8 | 2294.6 | 2174.4 | 2183.3 | 2339.4 | 2476.2 |
| 42.5° | 2904.7 | 2946.9 | 3050.5 | 3158.0 | 3137.5 | 2881.7 | 2540.2 | 2358.6 | 2354.7 | 2514.6 | 2570.9 |
| 45° | 3149.0 | 3205.3 | 3317.8 | 3441.9 | 3459.8 | 3253.9 | 2867.6 | 2633.6 | 2646.3 | 2743.6 | 2766.6 |
| 47.5° | 3489.2 | 3486.7 | 3596.7 | 3734.8 | 3838.4 | 3640.2 | 3259.0 | 3003.2 | 3001.9 | 3105.5 | 3056.9 |
| 50° | 3818.0 | 3819.2 | 3848.7 | 4008.5 | 4277.1 | 4176.1 | 3743.8 | 3494.4 | 3480.3 | 3531.4 | 3453.4 |
| 52.5° | 3970.2 | 3952.3 | 3930.5 | 4123.6 | 4614.8 | 4851.4 | 4357.7 | 4050.7 | 4039.2 | 4008.5 | 3988.1 |
| 55° | 3810.3 | 3816.7 | 3815.4 | 4016.2 | 4792.6 | 5563.9 | 5145.6 | 4663.4 | 4644.2 | 4548.3 | 4576.4 |
| 57.5° | 3297.4 | 3276.9 | 3321.7 | 3635.0 | 4589.2 | 6049.9 | 6272.4 | 5435.9 | 5386.1 | 5067.6 | 5003.6 |
| 60° | 2454.5 | 2460.9 | 2498.0 | 2867.6 | 4084.0 | 6152.2 | 7350.7 | 6342.8 | 6127.9 | 5433.4 | 5345.1 |
| 62.5° | 1713.9 | 1701.1 | 1715.2 | 1922.4 | 2920.1 | 5742.9 | 8079.7 | 7445.3 | 7238.1 | 5849.1 | 5797.9 |
| 65° | 1226.6 | 1210.0 | 1266.3 | 1392.9 | 1753.6 | 4391.0 | 8183.3 | 8913.7 | 8728.2 | 6512.9 | 6390.1 |
| 67.5° | 882.5 | 880.0 | 945.2 | 1175.4 | 1245.8 | 2528.7 | 7415.9 | 10243.9 | 10131.3 | 7300.8 | 6750.8 |
| 69° | 730.3 | 731.6 | 794.3 | 1052.7 | 1189.5 | 1726.7 | 6381.2 | 10472.8 | 10452.4 | 7707.5 | 6683.0 |
| 70° | 637.0 | 642.1 | 715.0 | 979.7 | 1166.5 | 1419.7 | 5501.2 | 10247.7 | 10227.3 | 7786.8 | 6459.2 |
| 72.5° | 392.7 | 396.5 | 492.4 | 785.3 | 1108.9 | 1158.8 | 3289.7 | 8384.1 | 8454.5 | 7423.6 | 5565.1 |
| 75° | 188.0 | 189.3 | 258.4 | 567.9 | 1069.3 | 1098.7 | 1762.5 | 6186.7 | 6335.1 | 5993.6 | 4348.8 |
| 77.5° | 99.8 | 99.8 | 124.1 | 301.9 | 865.9 | 1033.5 | 1046.3 | 4364.1 | 4486.9 | 3789.8 | 2472.4 |
| 80° | 49.9 | 51.2 | 75.5 | 157.3 | 537.2 | 1013.0 | 817.3 | 2602.9 | 2669.4 | 1546.4 | 770.0 |
| 82.5° | 19.2 | 20.5 | 35.8 | 94.6 | 278.8 | 855.7 | 717.5 | 1280.3 | 1263.7 | 362.0 | 188.0 |
| 85° | 2.6 | 2.6 | 12.8 | 56.3 | 119.0 | 377.3 | 592.2 | 534.6 | 516.7 | 79.3 | 90.8 |
| 87.5° | 0.0 | 0.0 | 2.6 | 16.6 | 35.8 | 110.0 | 228.9 | 147.1 | 163.7 | 21.7 | 44.8 |
| 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° | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 | 2390.5 |
| 2.5° | 2427.6 | 2400.8 | 2359.8 | 2320.2 | 2278.0 | 2226.8 | 2170.5 | 2150.1 | 2114.3 | 2111.7 | 2132.2 |
| 5° | 2425.1 | 2381.6 | 2310.0 | 2225.5 | 2105.3 | 2014.5 | 1916.0 | 1844.4 | 1789.4 | 1753.6 | 1762.5 |
| 7.5° | 2437.9 | 2385.4 | 2261.4 | 2079.7 | 1925.0 | 1744.6 | 1592.4 | 1487.5 | 1391.6 | 1344.3 | 1339.2 |
| 10° | 2417.4 | 2347.0 | 2165.4 | 1910.9 | 1683.2 | 1431.3 | 1208.7 | 1068.0 | 924.8 | 872.3 | 874.9 |
| 12.5° | 2428.9 | 2330.4 | 2061.8 | 1736.9 | 1423.6 | 1096.1 | 830.1 | 638.2 | 503.9 | 460.5 | 455.3 |
| 15° | 2436.6 | 2294.6 | 1962.1 | 1528.5 | 1135.8 | 747.0 | 480.9 | 362.0 | 319.8 | 312.1 | 310.8 |
| 17.5° | 2407.2 | 2251.1 | 1821.4 | 1322.5 | 841.6 | 454.1 | 319.8 | 295.5 | 287.8 | 282.7 | 280.1 |
| 20° | 2405.9 | 2225.5 | 1699.9 | 1111.5 | 561.5 | 309.5 | 276.3 | 267.3 | 255.8 | 252.0 | 252.0 |
| 22.5° | 2384.1 | 2171.8 | 1554.0 | 880.0 | 358.1 | 266.0 | 248.1 | 234.1 | 221.3 | 216.2 | 214.9 |
| 25° | 2377.7 | 2109.1 | 1417.2 | 661.3 | 272.4 | 237.9 | 220.0 | 199.5 | 184.2 | 176.5 | 172.7 |
| 27.5° | 2359.8 | 2055.4 | 1279.0 | 465.6 | 237.9 | 212.3 | 189.3 | 167.6 | 149.6 | 138.1 | 136.9 |
| 30° | 2295.9 | 1999.1 | 1125.6 | 322.3 | 216.2 | 188.0 | 162.4 | 136.9 | 119.0 | 111.3 | 108.7 |
| 32.5° | 2269.0 | 1946.7 | 958.0 | 248.1 | 197.0 | 166.3 | 136.9 | 113.8 | 99.8 | 92.1 | 90.8 |
| 35° | 2237.1 | 1870.0 | 795.6 | 216.2 | 179.1 | 144.5 | 115.1 | 95.9 | 84.4 | 78.0 | 78.0 |
| 37.5° | 2240.9 | 1808.6 | 643.4 | 195.7 | 159.9 | 124.1 | 98.5 | 81.9 | 71.6 | 65.2 | 65.2 |
| 40° | 2229.4 | 1760.0 | 500.1 | 177.8 | 142.0 | 106.2 | 83.1 | 69.1 | 60.1 | 53.7 | 52.4 |
| 42.5° | 2281.8 | 1747.2 | 377.3 | 162.4 | 124.1 | 90.8 | 71.6 | 58.8 | 49.9 | 42.2 | 42.2 |
| 45° | 2370.1 | 1767.6 | 294.2 | 148.4 | 106.2 | 78.0 | 61.4 | 48.6 | 39.7 | 34.5 | 33.3 |
| 47.5° | 2605.4 | 1848.2 | 230.2 | 136.9 | 90.8 | 67.8 | 51.2 | 39.7 | 32.0 | 26.9 | 25.6 |
| 50° | 2946.9 | 2028.6 | 195.7 | 120.2 | 76.7 | 57.6 | 42.2 | 30.7 | 25.6 | 20.5 | 19.2 |
| 52.5° | 3433.0 | 2331.7 | 177.8 | 106.2 | 64.0 | 47.3 | 33.3 | 24.3 | 19.2 | 15.3 | 14.1 |
| 55° | 3962.5 | 2710.3 | 161.2 | 89.5 | 53.7 | 38.4 | 26.9 | 19.2 | 14.1 | 10.2 | 9.0 |
| 57.5° | 4375.6 | 3037.7 | 147.1 | 74.2 | 43.5 | 30.7 | 20.5 | 14.1 | 10.2 | 6.4 | 5.1 |
| 60° | 4827.1 | 3268.0 | 129.2 | 58.8 | 35.8 | 23.0 | 15.3 | 10.2 | 7.7 | 3.8 | 3.8 |
| 62.5° | 5292.7 | 3537.8 | 106.2 | 46.0 | 28.1 | 17.9 | 11.5 | 7.7 | 5.1 | 1.3 | 1.3 |
| 65° | 5939.9 | 3748.9 | 81.9 | 35.8 | 21.7 | 12.8 | 9.0 | 6.4 | 2.6 | 0.0 | 0.0 |
| 67.5° | 6122.8 | 3645.3 | 60.1 | 28.1 | 15.3 | 9.0 | 6.4 | 3.8 | 1.3 | 0.0 | 0.0 |
| 69° | 5939.9 | 3283.3 | 52.4 | 24.3 | 12.8 | 7.7 | 5.1 | 2.6 | 1.3 | 0.0 | 0.0 |
| 70° | 5606.1 | 3001.9 | 46.0 | 20.5 | 11.5 | 7.7 | 3.8 | 2.6 | 1.3 | 0.0 | 0.0 |
| 72.5° | 4689.0 | 2302.3 | 35.8 | 15.3 | 9.0 | 6.4 | 3.8 | 2.6 | 0.0 | 0.0 | 0.0 |
| 75° | 3439.4 | 1422.3 | 26.9 | 11.5 | 7.7 | 5.1 | 3.8 | 2.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1843.1 | 519.3 | 19.2 | 7.7 | 5.1 | 3.8 | 3.8 | 2.6 | 0.0 | 0.0 | 0.0 |
| 80° | 505.2 | 153.5 | 14.1 | 5.1 | 3.8 | 2.6 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 138.1 | 39.7 | 9.0 | 5.1 | 3.8 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 74.2 | 15.3 | 5.1 | 3.8 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 38.4 | 5.1 | 3.8 | 2.6 | 2.6 | 1.3 | 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)