

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: P484040

Luminaire Tested: **IFLD-S-SA2A-750-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484040  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

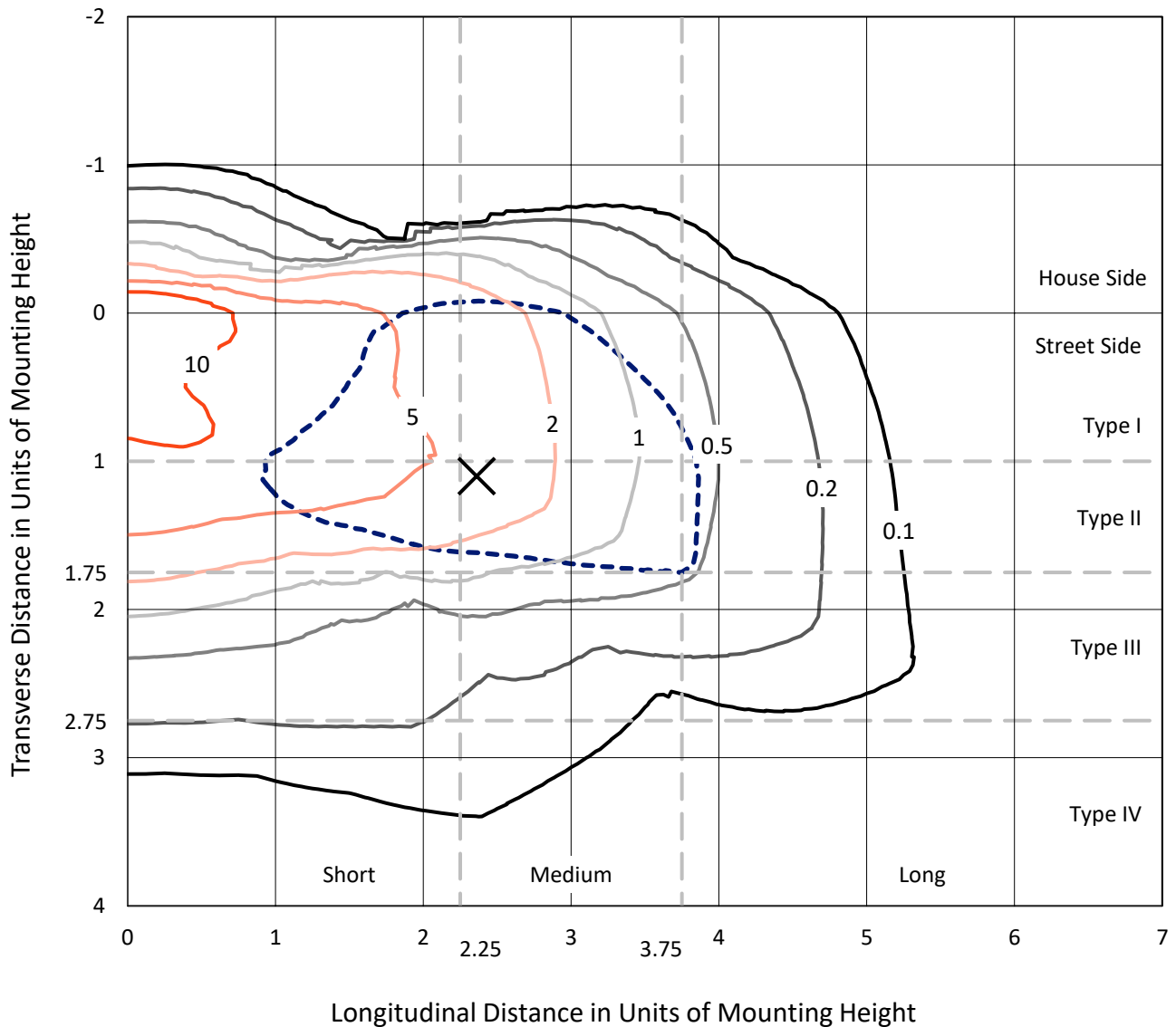
Lumens per Lamp: N/A  
Luminaire Lumens: 7772.6 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

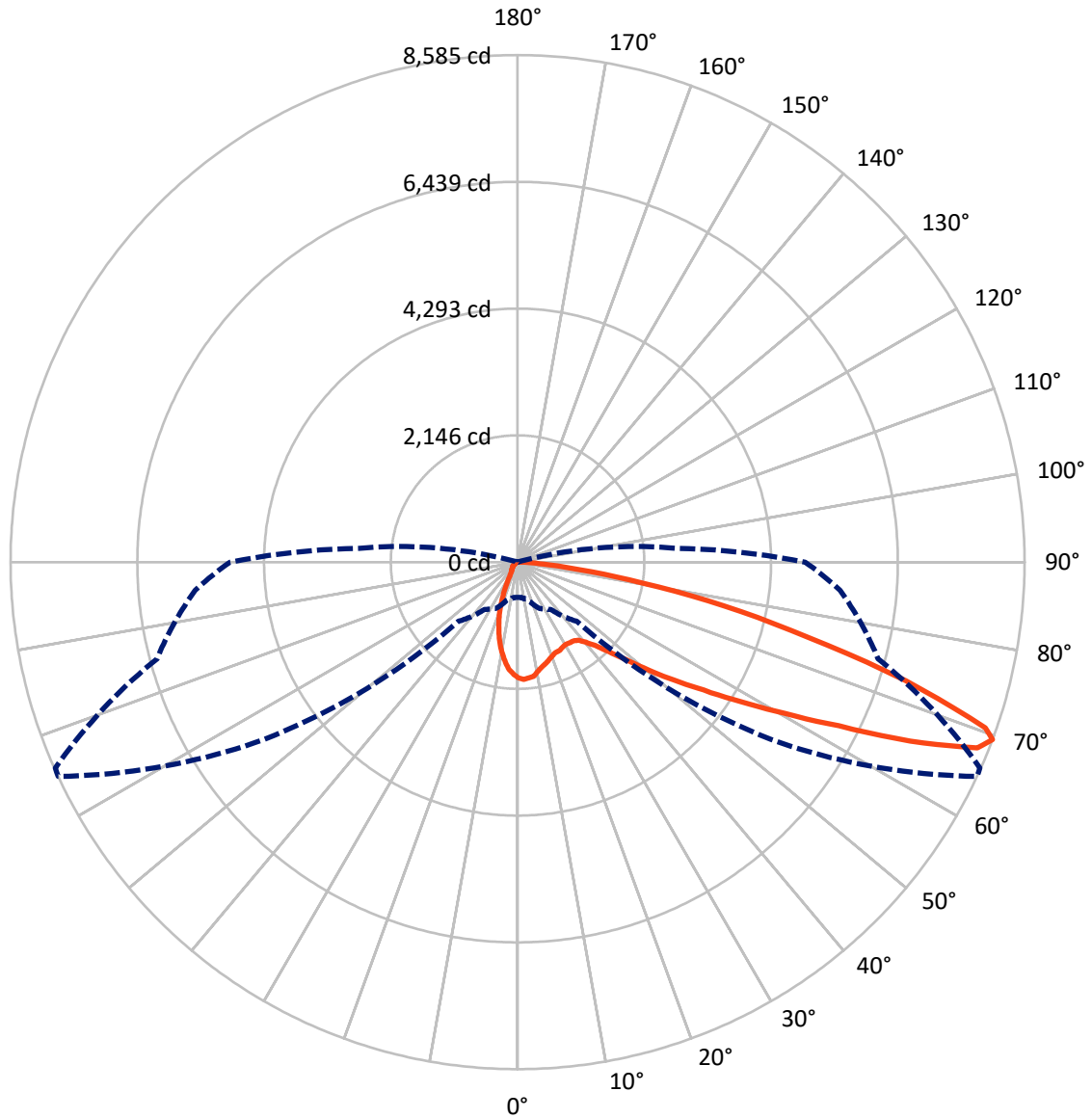
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 942.8    | 0.0    | 942.8  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 6829.7   | 0.0    | 6829.7 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 7772.6   | 0.0    | 7772.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.4  | 2.1       |
| 10°-20°   | 350.9  | 4.5       |
| 20°-30°   | 488.5  | 6.3       |
| 30°-40°   | 692.2  | 8.9       |
| 40°-50°   | 1090.9 | 14.0      |
| 50°-60°   | 1770.2 | 22.8      |
| 60°-70°   | 1977.0 | 25.4      |
| 70°-80°   | 1113.3 | 14.3      |
| 80°-90°   | 129.2  | 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°    | 7772.6 | 100.0     |
| 0°-180°   | 7772.6 | 100.0     |

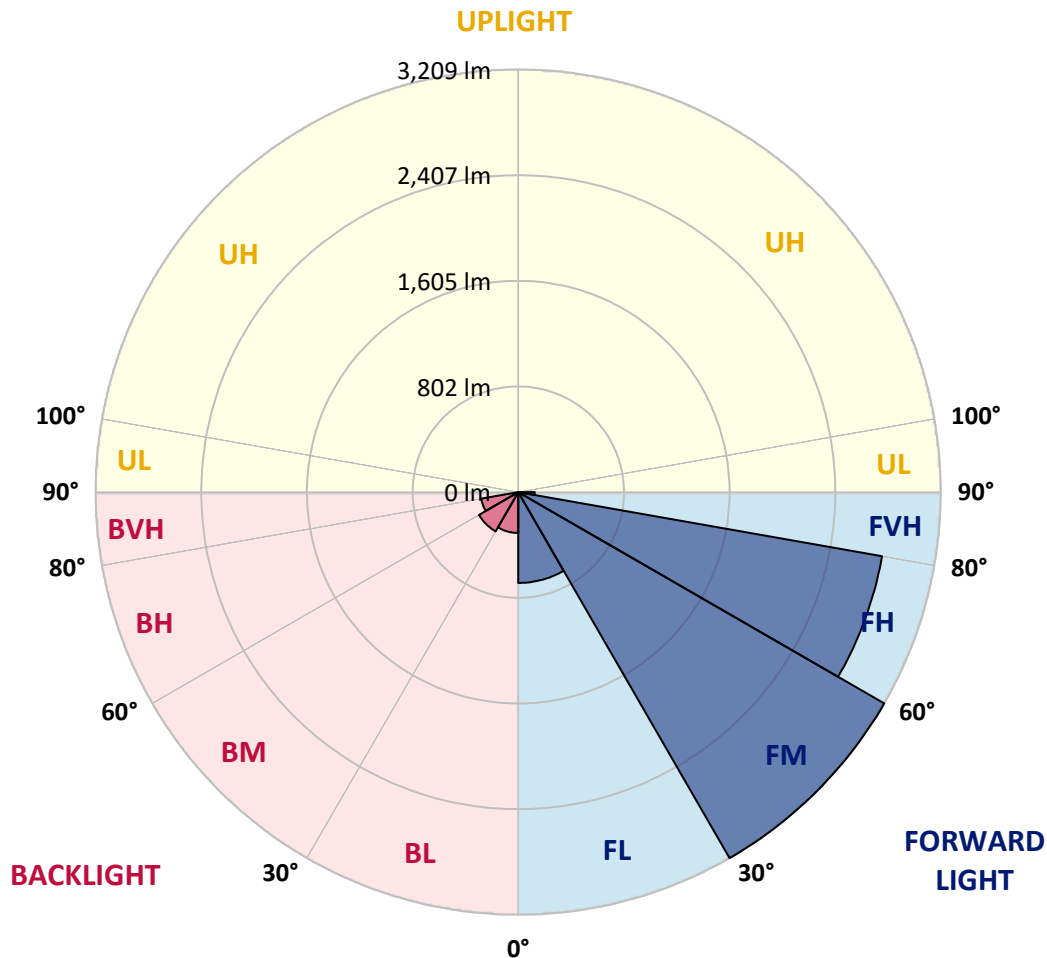


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 689.7  | 8.9       |                         |      |         |
| FM (30°-60°)   | 3209.4 | 41.3      |                         |      |         |
| FH (60°-80°)   | 2805.0 | 36.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 125.6  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 310.0  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 344.0  | 4.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 285.3  | 3.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.6    | 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°    | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 |
| 2.5°  | 1887.3 | 1902.0 | 1906.2 | 1920.9 | 1928.2 | 1959.7 | 1977.5 | 1988.0 | 1982.7 | 1994.3 | 1995.3 |
| 5°    | 1753.1 | 1744.7 | 1766.7 | 1782.5 | 1816.0 | 1870.5 | 1926.1 | 1969.1 | 1989.0 | 2007.9 | 2004.7 |
| 7.5°  | 1609.5 | 1605.3 | 1627.3 | 1662.9 | 1693.3 | 1759.4 | 1848.5 | 1954.4 | 1950.2 | 1996.4 | 2010.0 |
| 10°   | 1510.9 | 1515.1 | 1522.4 | 1558.1 | 1603.2 | 1670.3 | 1781.4 | 1880.0 | 1902.0 | 1999.5 | 2026.8 |
| 12.5° | 1420.7 | 1428.1 | 1441.7 | 1478.4 | 1530.8 | 1600.0 | 1708.0 | 1823.3 | 1856.9 | 1981.7 | 2036.2 |
| 15°   | 1391.4 | 1374.6 | 1401.9 | 1429.1 | 1483.6 | 1545.5 | 1636.7 | 1780.4 | 1795.0 | 1960.7 | 2051.9 |
| 17.5° | 1367.2 | 1356.8 | 1369.3 | 1391.4 | 1449.0 | 1499.4 | 1585.3 | 1734.2 | 1761.5 | 1952.3 | 2049.8 |
| 20°   | 1374.6 | 1365.2 | 1370.4 | 1387.2 | 1413.4 | 1460.6 | 1540.3 | 1690.2 | 1719.5 | 1913.5 | 2046.7 |
| 22.5° | 1395.6 | 1402.9 | 1393.5 | 1397.7 | 1406.0 | 1430.2 | 1516.1 | 1658.7 | 1683.9 | 1906.2 | 2064.5 |
| 25°   | 1489.9 | 1477.3 | 1464.8 | 1459.5 | 1410.2 | 1420.7 | 1508.8 | 1656.6 | 1674.5 | 1880.0 | 2049.8 |
| 27.5° | 1588.5 | 1578.0 | 1572.8 | 1542.4 | 1475.2 | 1443.8 | 1509.8 | 1627.3 | 1651.4 | 1869.5 | 2032.0 |
| 30°   | 1708.0 | 1721.6 | 1700.7 | 1664.0 | 1570.7 | 1493.1 | 1521.4 | 1612.6 | 1646.2 | 1829.6 | 2020.5 |
| 32.5° | 1833.8 | 1841.2 | 1851.7 | 1824.4 | 1703.8 | 1567.5 | 1556.0 | 1626.2 | 1628.3 | 1829.6 | 1994.3 |
| 35°   | 1976.4 | 1965.9 | 1993.2 | 1995.3 | 1889.4 | 1699.6 | 1622.0 | 1635.7 | 1657.7 | 1821.3 | 1984.8 |
| 37.5° | 2099.1 | 2116.9 | 2148.4 | 2198.7 | 2089.7 | 1886.3 | 1724.8 | 1679.7 | 1689.1 | 1860.0 | 1992.2 |
| 40°   | 2233.3 | 2251.1 | 2322.4 | 2372.8 | 2310.9 | 2096.0 | 1881.0 | 1782.5 | 1789.8 | 1917.7 | 2029.9 |
| 42.5° | 2381.2 | 2415.8 | 2500.7 | 2588.8 | 2572.0 | 2362.3 | 2082.3 | 1933.4 | 1930.3 | 2061.4 | 2107.5 |
| 45°   | 2581.4 | 2627.6 | 2719.8 | 2821.5 | 2836.2 | 2667.4 | 2350.7 | 2158.9 | 2169.4 | 2249.0 | 2267.9 |
| 47.5° | 2860.3 | 2858.2 | 2948.4 | 3061.6 | 3146.6 | 2984.0 | 2671.6 | 2461.9 | 2460.8 | 2545.8 | 2505.9 |
| 50°   | 3129.8 | 3130.8 | 3155.0 | 3286.0 | 3506.2 | 3423.4 | 3069.0 | 2864.5 | 2853.0 | 2894.9 | 2831.0 |
| 52.5° | 3254.6 | 3239.9 | 3222.1 | 3380.4 | 3783.0 | 3977.0 | 3572.3 | 3320.6 | 3311.2 | 3286.0 | 3269.2 |
| 55°   | 3123.5 | 3128.7 | 3127.7 | 3292.3 | 3928.7 | 4561.0 | 4218.1 | 3822.8 | 3807.1 | 3728.5 | 3751.5 |
| 57.5° | 2703.0 | 2686.3 | 2723.0 | 2979.8 | 3762.0 | 4959.4 | 5141.9 | 4456.1 | 4415.3 | 4154.2 | 4101.7 |
| 60°   | 2012.1 | 2017.3 | 2047.7 | 2350.7 | 3347.9 | 5043.3 | 6025.8 | 5199.5 | 5023.4 | 4454.0 | 4381.7 |
| 62.5° | 1405.0 | 1394.5 | 1406.0 | 1575.9 | 2393.7 | 4707.8 | 6623.4 | 6103.3 | 5933.5 | 4794.8 | 4752.9 |
| 65°   | 1005.5 | 991.9  | 1038.0 | 1141.8 | 1437.5 | 3599.5 | 6708.3 | 7307.0 | 7155.0 | 5339.0 | 5238.3 |
| 67.5° | 723.5  | 721.4  | 774.8  | 963.6  | 1021.2 | 2072.9 | 6079.2 | 8397.5 | 8305.2 | 5984.9 | 5534.0 |
| 69°   | 598.7  | 599.7  | 651.1  | 862.9  | 975.1  | 1415.5 | 5231.0 | 8585.2 | 8568.4 | 6318.3 | 5478.4 |
| 70°   | 522.2  | 526.3  | 586.1  | 803.2  | 956.2  | 1163.8 | 4509.6 | 8400.6 | 8383.8 | 6383.3 | 5294.9 |
| 72.5° | 321.9  | 325.0  | 403.7  | 643.8  | 909.1  | 949.9  | 2696.8 | 6872.9 | 6930.6 | 6085.5 | 4562.0 |
| 75°   | 154.1  | 155.2  | 211.8  | 465.5  | 876.5  | 900.7  | 1444.8 | 5071.6 | 5193.2 | 4913.3 | 3564.9 |
| 77.5° | 81.8   | 81.8   | 101.7  | 247.4  | 709.8  | 847.2  | 857.7  | 3577.5 | 3678.2 | 3106.7 | 2026.8 |
| 80°   | 40.9   | 41.9   | 61.9   | 129.0  | 440.4  | 830.4  | 670.0  | 2133.7 | 2188.2 | 1267.6 | 631.2  |
| 82.5° | 15.7   | 16.8   | 29.4   | 77.6   | 228.6  | 701.4  | 588.2  | 1049.6 | 1035.9 | 296.7  | 154.1  |
| 85°   | 2.1    | 2.1    | 10.5   | 46.1   | 97.5   | 309.3  | 485.5  | 438.3  | 423.6  | 65.0   | 74.4   |
| 87.5° | 0.0    | 0.0    | 2.1    | 13.6   | 29.4   | 90.2   | 187.7  | 120.6  | 134.2  | 17.8   | 36.7   |
| 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°    | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 | 1959.7 |
| 2.5°  | 1990.1 | 1968.0 | 1934.5 | 1902.0 | 1867.4 | 1825.4 | 1779.3 | 1762.5 | 1733.2 | 1731.1 | 1747.9 |
| 5°    | 1988.0 | 1952.3 | 1893.6 | 1824.4 | 1725.8 | 1651.4 | 1570.7 | 1511.9 | 1466.9 | 1437.5 | 1444.8 |
| 7.5°  | 1998.4 | 1955.5 | 1853.8 | 1704.9 | 1578.0 | 1430.2 | 1305.4 | 1219.4 | 1140.8 | 1102.0 | 1097.8 |
| 10°   | 1981.7 | 1924.0 | 1775.1 | 1566.5 | 1379.8 | 1173.3 | 990.8  | 875.5  | 758.1  | 715.1  | 717.2  |
| 12.5° | 1991.1 | 1910.4 | 1690.2 | 1423.9 | 1167.0 | 898.6  | 680.5  | 523.2  | 413.1  | 377.5  | 373.3  |
| 15°   | 1997.4 | 1881.0 | 1608.4 | 1253.0 | 931.1  | 612.3  | 394.2  | 296.7  | 262.1  | 255.8  | 254.8  |
| 17.5° | 1973.3 | 1845.4 | 1493.1 | 1084.2 | 689.9  | 372.2  | 262.1  | 242.2  | 235.9  | 231.7  | 229.6  |
| 20°   | 1972.2 | 1824.4 | 1393.5 | 911.2  | 460.3  | 253.7  | 226.5  | 219.1  | 209.7  | 206.6  | 206.6  |
| 22.5° | 1954.4 | 1780.4 | 1273.9 | 721.4  | 293.6  | 218.1  | 203.4  | 191.9  | 181.4  | 177.2  | 176.1  |
| 25°   | 1949.2 | 1729.0 | 1161.7 | 542.1  | 223.3  | 195.0  | 180.3  | 163.6  | 151.0  | 144.7  | 141.5  |
| 27.5° | 1934.5 | 1684.9 | 1048.5 | 381.7  | 195.0  | 174.1  | 155.2  | 137.4  | 122.7  | 113.2  | 112.2  |
| 30°   | 1882.1 | 1638.8 | 922.7  | 264.2  | 177.2  | 154.1  | 133.2  | 112.2  | 97.5   | 91.2   | 89.1   |
| 32.5° | 1860.0 | 1595.8 | 785.3  | 203.4  | 161.5  | 136.3  | 112.2  | 93.3   | 81.8   | 75.5   | 74.4   |
| 35°   | 1833.8 | 1532.9 | 652.2  | 177.2  | 146.8  | 118.5  | 94.4   | 78.6   | 69.2   | 64.0   | 64.0   |
| 37.5° | 1837.0 | 1482.6 | 527.4  | 160.4  | 131.1  | 101.7  | 80.7   | 67.1   | 58.7   | 53.5   | 53.5   |
| 40°   | 1827.5 | 1442.7 | 410.0  | 145.7  | 116.4  | 87.0   | 68.2   | 56.6   | 49.3   | 44.0   | 43.0   |
| 42.5° | 1870.5 | 1432.3 | 309.3  | 133.2  | 101.7  | 74.4   | 58.7   | 48.2   | 40.9   | 34.6   | 34.6   |
| 45°   | 1942.9 | 1449.0 | 241.2  | 121.6  | 87.0   | 64.0   | 50.3   | 39.8   | 32.5   | 28.3   | 27.3   |
| 47.5° | 2135.8 | 1515.1 | 188.7  | 112.2  | 74.4   | 55.6   | 41.9   | 32.5   | 26.2   | 22.0   | 21.0   |
| 50°   | 2415.8 | 1662.9 | 160.4  | 98.6   | 62.9   | 47.2   | 34.6   | 25.2   | 21.0   | 16.8   | 15.7   |
| 52.5° | 2814.2 | 1911.4 | 145.7  | 87.0   | 52.4   | 38.8   | 27.3   | 19.9   | 15.7   | 12.6   | 11.5   |
| 55°   | 3248.3 | 2221.8 | 132.1  | 73.4   | 44.0   | 31.5   | 22.0   | 15.7   | 11.5   | 8.4    | 7.3    |
| 57.5° | 3586.9 | 2490.2 | 120.6  | 60.8   | 35.6   | 25.2   | 16.8   | 11.5   | 8.4    | 5.2    | 4.2    |
| 60°   | 3957.1 | 2678.9 | 105.9  | 48.2   | 29.4   | 18.9   | 12.6   | 8.4    | 6.3    | 3.1    | 3.1    |
| 62.5° | 4338.7 | 2900.2 | 87.0   | 37.7   | 23.1   | 14.7   | 9.4    | 6.3    | 4.2    | 1.0    | 1.0    |
| 65°   | 4869.3 | 3073.2 | 67.1   | 29.4   | 17.8   | 10.5   | 7.3    | 5.2    | 2.1    | 0.0    | 0.0    |
| 67.5° | 5019.2 | 2988.2 | 49.3   | 23.1   | 12.6   | 7.3    | 5.2    | 3.1    | 1.0    | 0.0    | 0.0    |
| 69°   | 4869.3 | 2691.5 | 43.0   | 19.9   | 10.5   | 6.3    | 4.2    | 2.1    | 1.0    | 0.0    | 0.0    |
| 70°   | 4595.6 | 2460.8 | 37.7   | 16.8   | 9.4    | 6.3    | 3.1    | 2.1    | 1.0    | 0.0    | 0.0    |
| 72.5° | 3843.8 | 1887.3 | 29.4   | 12.6   | 7.3    | 5.2    | 3.1    | 2.1    | 0.0    | 0.0    | 0.0    |
| 75°   | 2819.4 | 1165.9 | 22.0   | 9.4    | 6.3    | 4.2    | 3.1    | 2.1    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1510.9 | 425.7  | 15.7   | 6.3    | 4.2    | 3.1    | 3.1    | 2.1    | 0.0    | 0.0    | 0.0    |
| 80°   | 414.2  | 125.8  | 11.5   | 4.2    | 3.1    | 2.1    | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 113.2  | 32.5   | 7.3    | 4.2    | 3.1    | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 60.8   | 12.6   | 4.2    | 3.1    | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 31.5   | 4.2    | 3.1    | 2.1    | 2.1    | 1.0    | 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)