

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: P484079

Luminaire Tested: **IFLD-S-SA2A-760-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484079
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

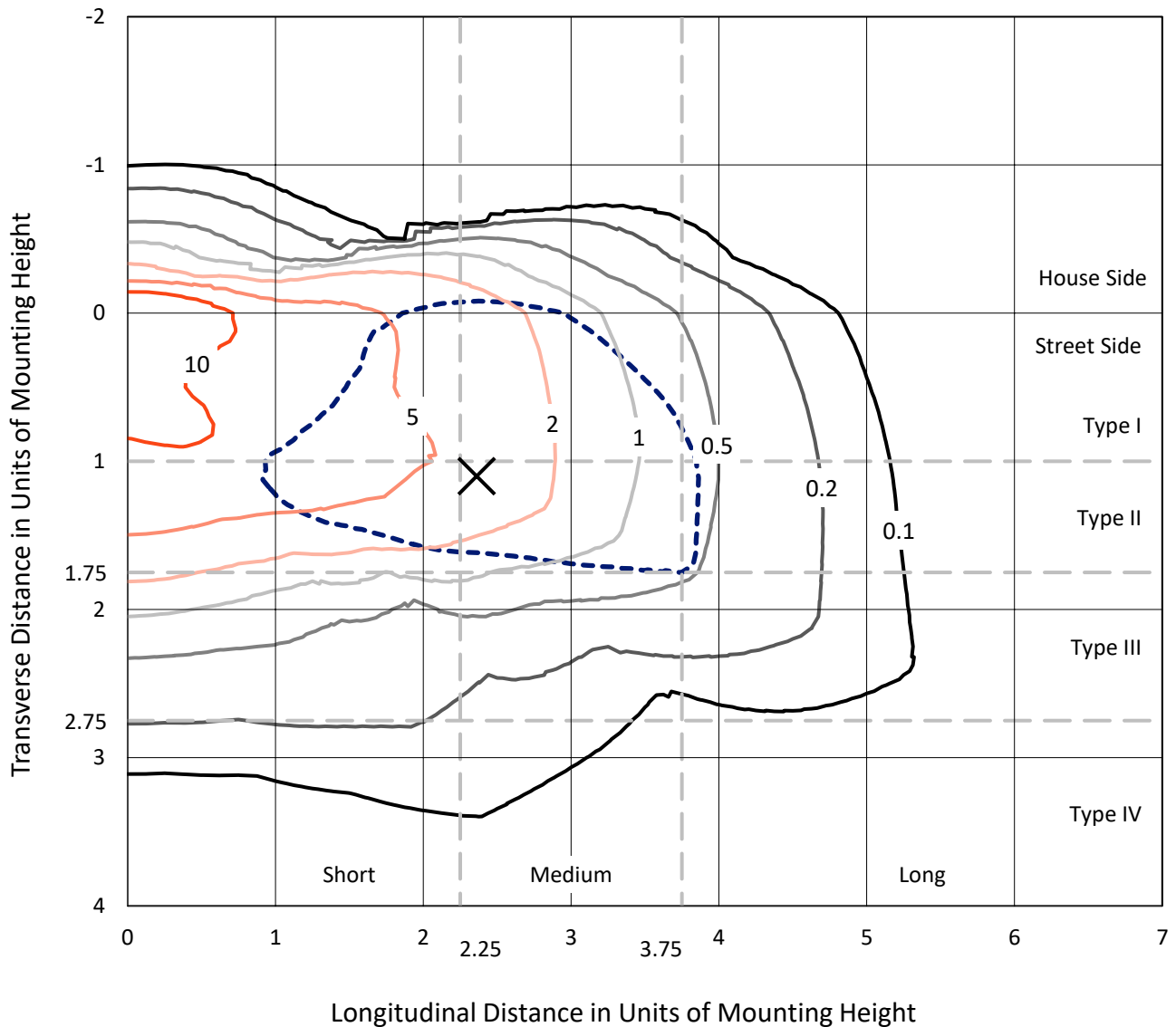
Lumens per Lamp: N/A
Luminaire Lumens: 7772.6 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

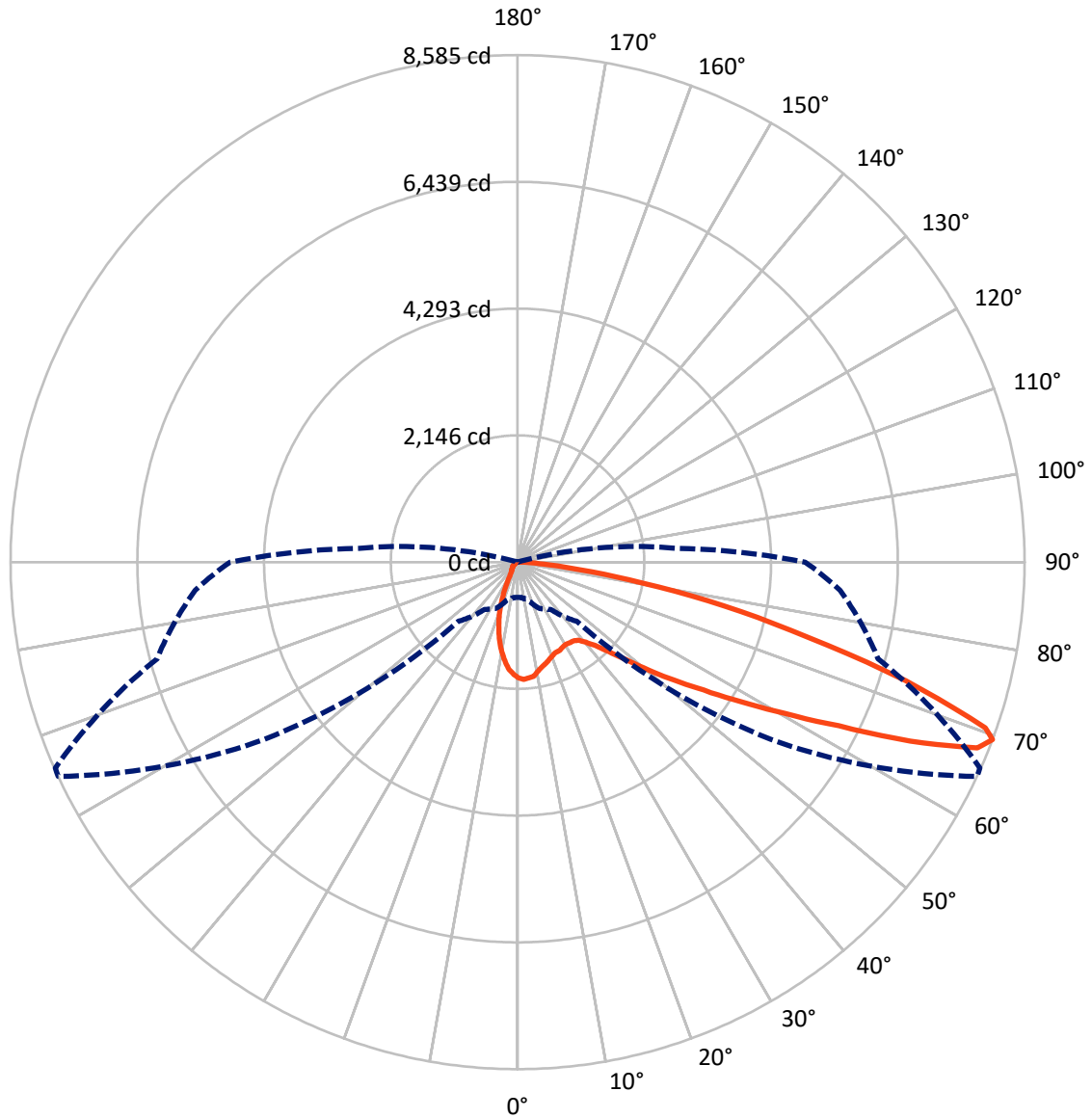
× Max cd
 - - - 1/2 Max cd



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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 942.8 | 0.0 | 942.8 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 6829.7 | 0.0 | 6829.7 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 7772.6 | 0.0 | 7772.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

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 |

Coefficient of Utilization



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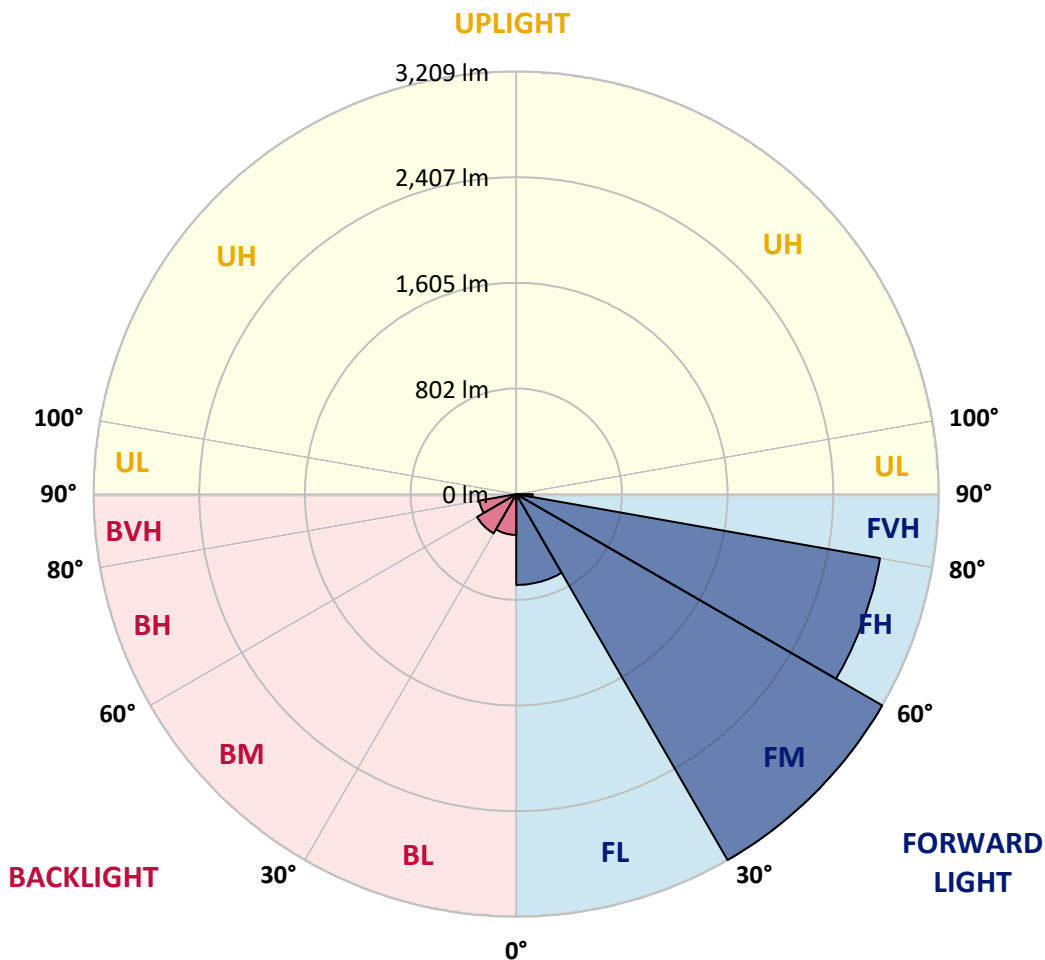
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 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)