

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: P478546

Luminaire Tested: **IFLD-S-SA3A-740-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478546  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

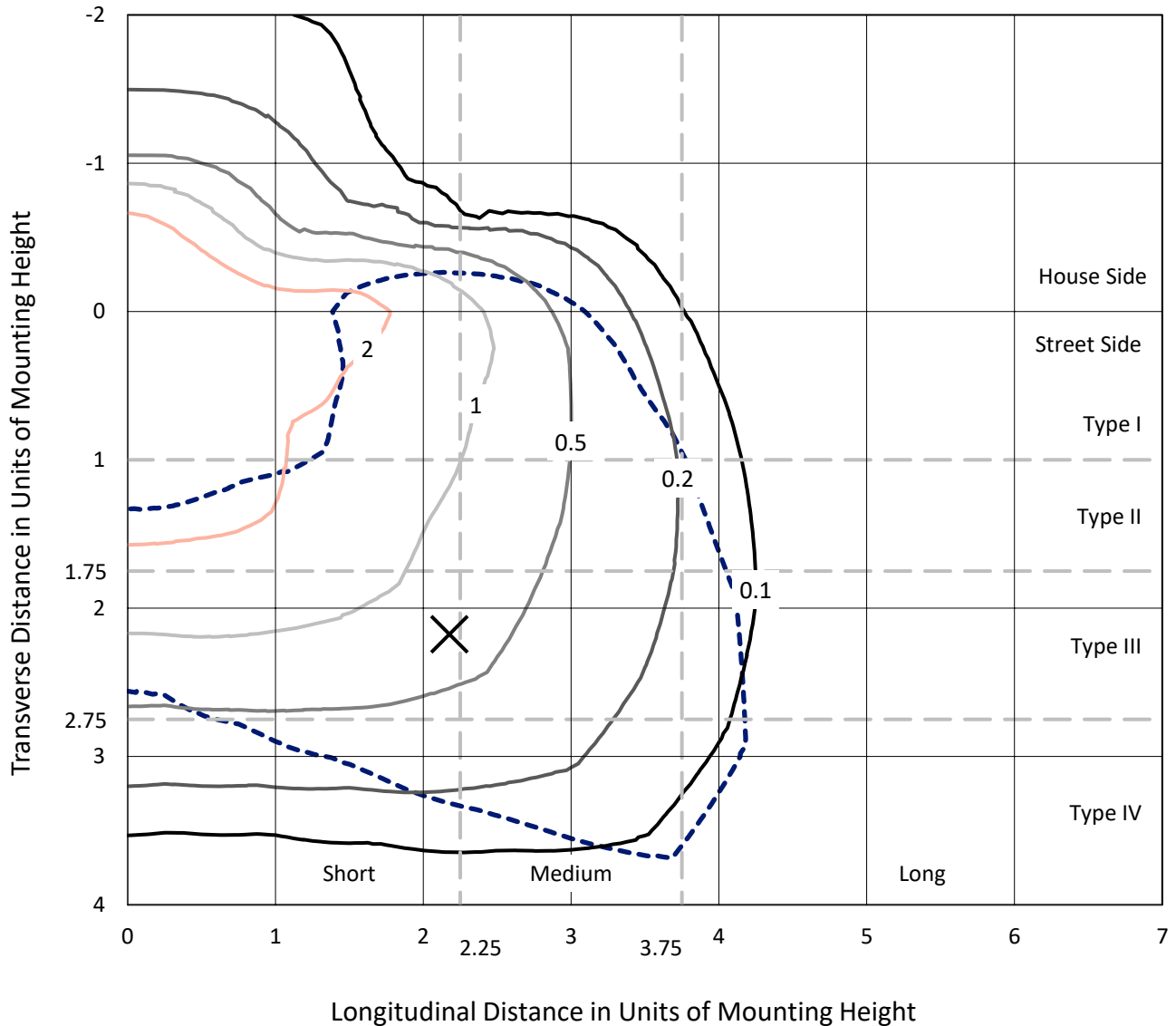
Lumens per Lamp: N/A  
Luminaire Lumens: 13906.9 lumens  
Efficiency: N/A  
Efficacy: 146.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
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

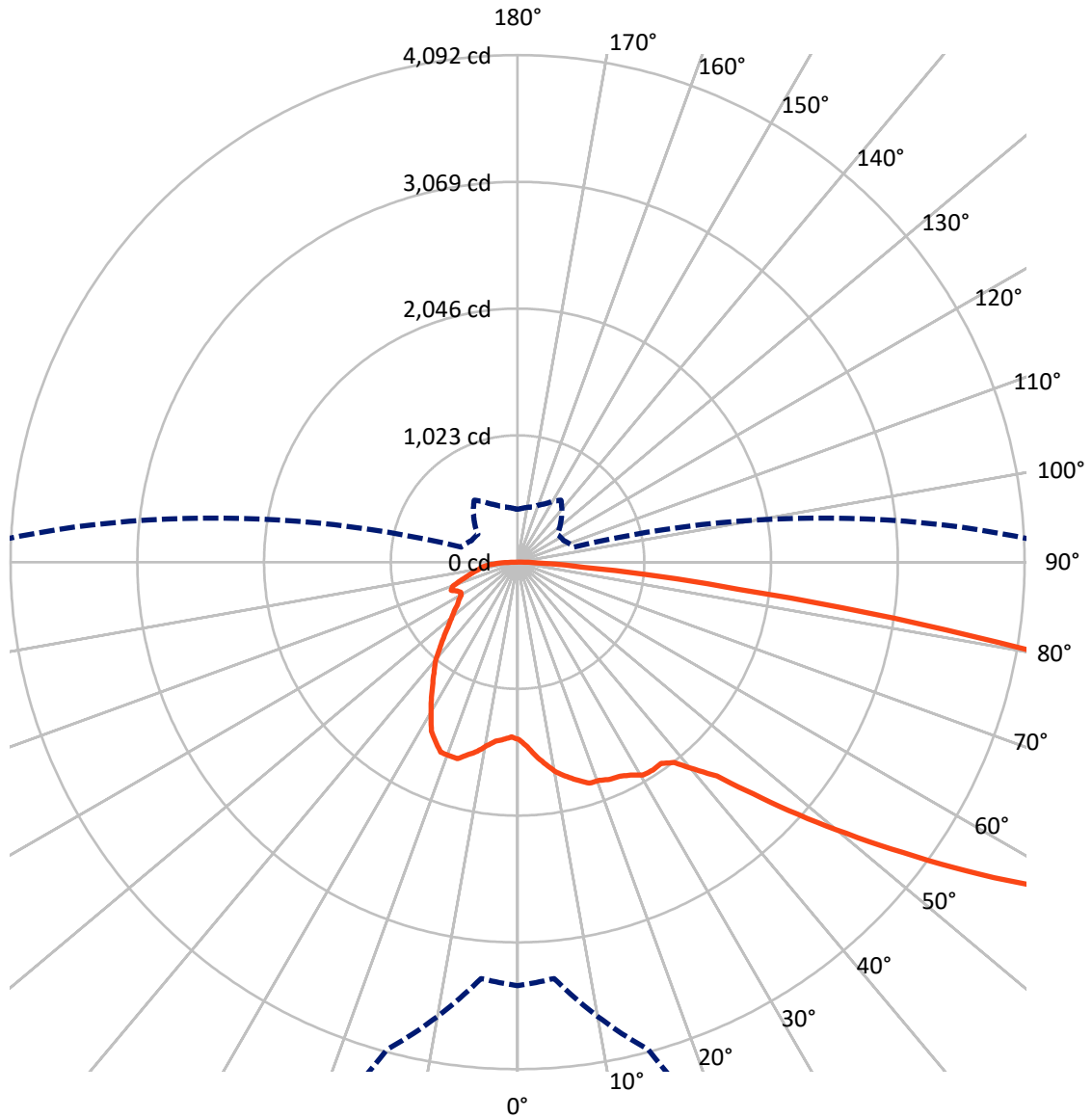
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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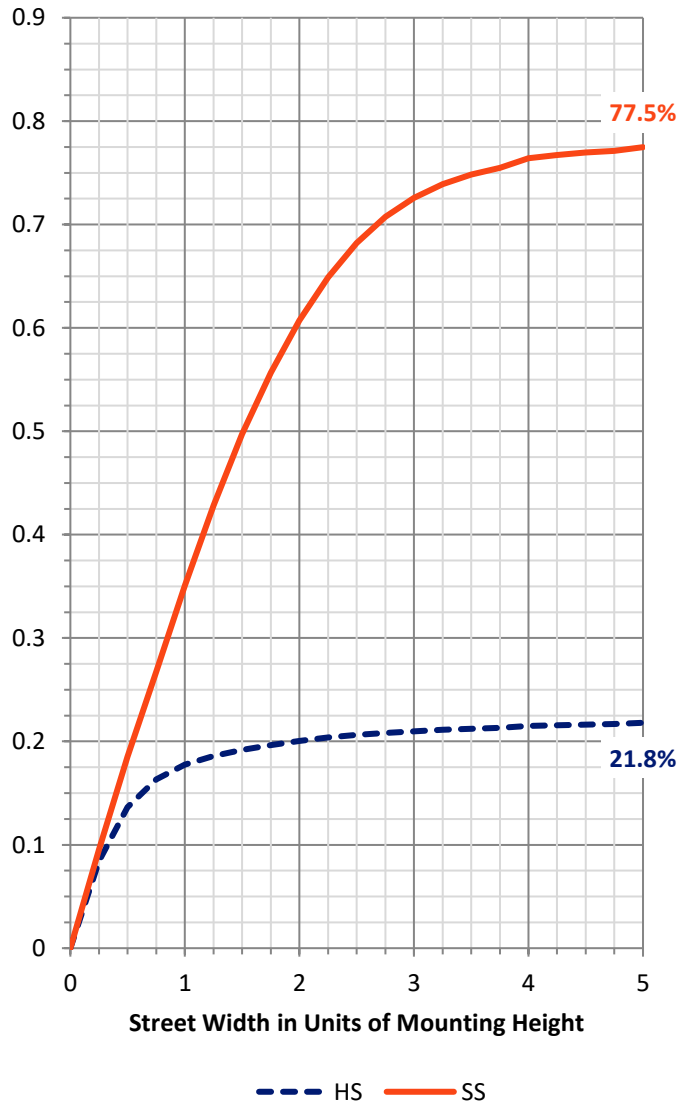
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3095.8   | 0.0    | 3095.8  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 10811.1  | 0.0    | 10811.1 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 13906.9  | 0.0    | 13906.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 146.5   | 1.1       |
| 10°-20°   | 487.6   | 3.5       |
| 20°-30°   | 823.4   | 5.9       |
| 30°-40°   | 1139.4  | 8.2       |
| 40°-50°   | 1629.8  | 11.7      |
| 50°-60°   | 2628.8  | 18.9      |
| 60°-70°   | 3877.0  | 27.9      |
| 70°-80°   | 2815.4  | 20.2      |
| 80°-90°   | 358.9   | 2.6       |
| 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°    | 13906.9 | 100.0     |
| 0°-180°   | 13906.9 | 100.0     |

**Coefficient of Utilization**



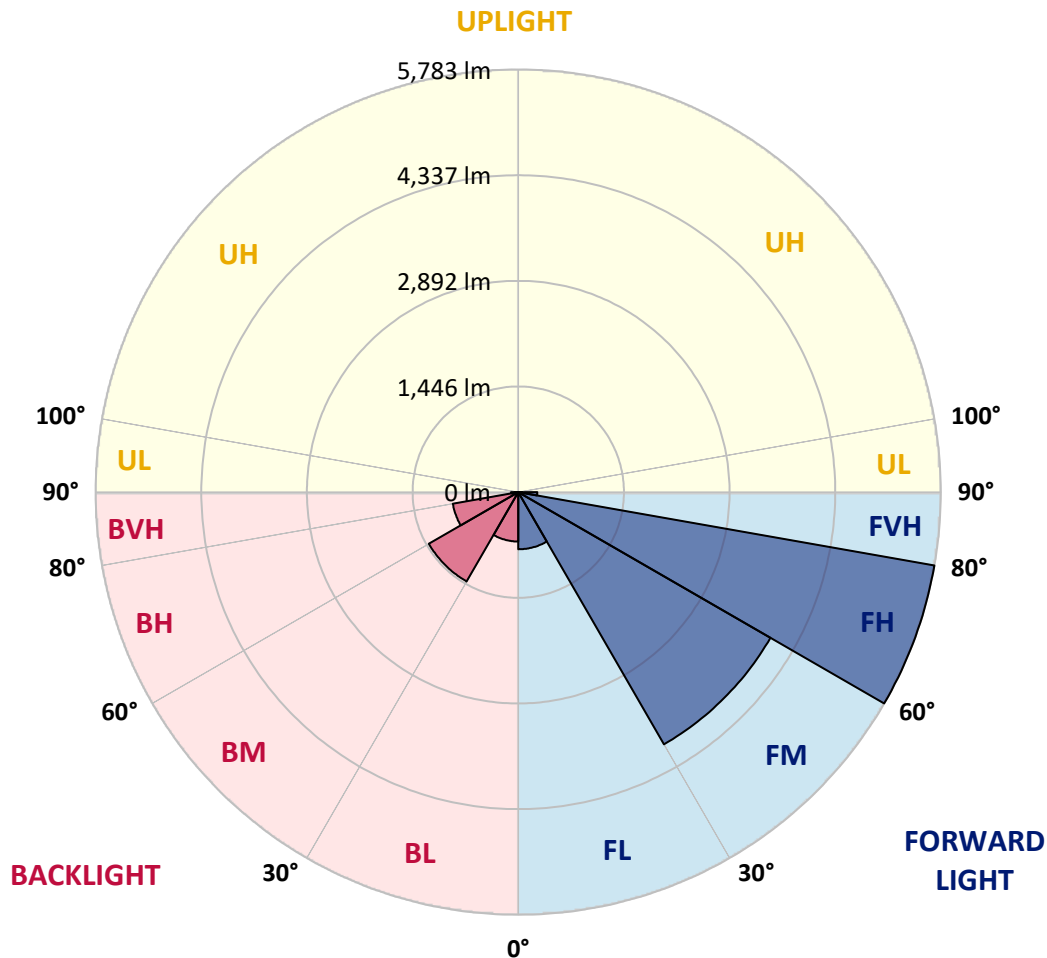
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 781.6  | 5.6       |                         |      |         |
| FM (30°-60°)   | 3985.2 | 28.7      |                         |      |         |
| FH (60°-80°)   | 5783.1 | 41.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 261.2  | 1.9       |                         |      | G3/500  |
| BL (0°-30°)    | 675.9  | 4.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1412.8 | 10.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 909.3  | 6.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 97.7   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 44°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 |
| 2.5°  | 1508.6 | 1517.6 | 1508.6 | 1507.1 | 1492.1 | 1481.6 | 1490.6 | 1477.1 | 1462.1 | 1456.1 | 1442.7 |
| 5°    | 1646.6 | 1648.1 | 1631.6 | 1633.1 | 1601.6 | 1568.6 | 1574.6 | 1534.1 | 1490.6 | 1474.1 | 1447.1 |
| 7.5°  | 1787.6 | 1771.1 | 1747.1 | 1739.6 | 1690.1 | 1654.1 | 1649.6 | 1613.6 | 1546.1 | 1508.6 | 1471.1 |
| 10°   | 1879.0 | 1885.0 | 1846.1 | 1813.1 | 1771.1 | 1727.6 | 1726.1 | 1658.6 | 1619.6 | 1564.1 | 1516.1 |
| 12.5° | 1960.0 | 1961.5 | 1928.5 | 1876.0 | 1823.6 | 1769.6 | 1777.1 | 1747.1 | 1681.1 | 1628.6 | 1580.6 |
| 15°   | 2023.0 | 2014.0 | 1978.0 | 1930.0 | 1874.5 | 1832.6 | 1828.1 | 1802.6 | 1747.1 | 1703.6 | 1624.1 |
| 17.5° | 2041.0 | 2036.5 | 2000.5 | 1949.5 | 1895.5 | 1864.0 | 1876.0 | 1834.1 | 1811.6 | 1772.6 | 1696.1 |
| 20°   | 2006.5 | 1996.0 | 1990.0 | 1933.0 | 1894.0 | 1891.0 | 1880.5 | 1889.5 | 1852.1 | 1816.1 | 1760.6 |
| 22.5° | 1943.5 | 1939.0 | 1936.0 | 1891.0 | 1873.0 | 1886.5 | 1904.5 | 1918.0 | 1912.0 | 1877.5 | 1814.6 |
| 25°   | 1879.0 | 1900.0 | 1880.5 | 1859.5 | 1885.0 | 1919.5 | 1915.0 | 1958.5 | 1958.5 | 1948.0 | 1895.5 |
| 27.5° | 1924.0 | 1910.5 | 1895.5 | 1885.0 | 1894.0 | 1948.0 | 1945.0 | 1997.5 | 2017.0 | 1997.5 | 1937.5 |
| 30°   | 2036.5 | 2023.0 | 1979.5 | 1933.0 | 1921.0 | 1979.5 | 1994.5 | 2041.0 | 2050.0 | 2002.0 | 1951.0 |
| 32.5° | 2248.0 | 2240.5 | 2171.5 | 2035.0 | 1961.5 | 1994.5 | 2002.0 | 2054.5 | 2047.0 | 2017.0 | 1996.0 |
| 35°   | 2561.4 | 2535.9 | 2439.9 | 2209.0 | 2047.0 | 2014.0 | 1994.5 | 2036.5 | 2065.0 | 2050.0 | 2030.5 |
| 37.5° | 2904.8 | 2876.3 | 2757.8 | 2465.4 | 2201.5 | 2066.5 | 2051.5 | 2086.0 | 2119.0 | 2111.5 | 2071.0 |
| 40°   | 3233.2 | 3233.2 | 3126.7 | 2786.3 | 2430.9 | 2194.0 | 2197.0 | 2158.0 | 2188.0 | 2174.5 | 2182.0 |
| 42.5° | 3557.1 | 3545.1 | 3501.7 | 3162.7 | 2676.9 | 2406.9 | 2358.9 | 2261.5 | 2315.4 | 2310.9 | 2321.4 |
| 45°   | 3885.6 | 3876.6 | 3864.6 | 3513.6 | 3029.3 | 2694.8 | 2669.4 | 2493.9 | 2543.4 | 2522.4 | 2567.4 |
| 47.5° | 4148.0 | 4158.5 | 4158.5 | 3905.1 | 3405.7 | 3078.8 | 3041.3 | 2763.8 | 2858.3 | 2868.8 | 2879.3 |
| 50°   | 4371.4 | 4375.9 | 4371.4 | 4278.5 | 3825.6 | 3518.1 | 3441.7 | 3159.7 | 3254.2 | 3336.7 | 3432.7 |
| 52.5° | 4680.4 | 4686.4 | 4665.4 | 4629.4 | 4395.4 | 3980.0 | 3894.6 | 3581.1 | 3774.6 | 3861.6 | 4034.0 |
| 55°   | 5061.3 | 5016.3 | 4977.3 | 5004.3 | 4942.8 | 4488.4 | 4399.9 | 4016.0 | 4307.0 | 4422.4 | 4767.3 |
| 57.5° | 5131.8 | 5170.7 | 5269.7 | 5484.2 | 5572.6 | 4983.3 | 4932.3 | 4549.9 | 4908.3 | 5008.8 | 5584.6 |
| 60°   | 5380.7 | 5316.2 | 5559.2 | 6024.0 | 6123.0 | 5628.1 | 5575.6 | 5134.8 | 5506.7 | 5611.6 | 6339.0 |
| 62.5° | 5544.2 | 5541.2 | 5901.1 | 6452.9 | 6677.9 | 6297.0 | 6190.5 | 5895.1 | 6153.0 | 6255.0 | 7160.8 |
| 65°   | 5496.2 | 5539.7 | 6178.5 | 6704.9 | 7141.3 | 7057.3 | 6995.8 | 6548.9 | 6889.3 | 6880.3 | 7696.1 |
| 67.5° | 5058.3 | 5181.2 | 6003.0 | 6886.3 | 7831.1 | 7984.1 | 7964.6 | 7468.2 | 7487.7 | 7297.2 | 7934.6 |
| 70°   | 4450.9 | 4408.9 | 5260.7 | 6697.4 | 8176.0 | 9083.3 | 9078.8 | 8152.0 | 8026.1 | 7388.7 | 7250.7 |
| 72°   | 3419.2 | 3372.7 | 4073.0 | 5751.1 | 7994.6 | 9522.7 | 9657.7 | 8625.9 | 8020.1 | 7009.3 | 5989.5 |
| 72.5° | 3104.2 | 3063.8 | 3761.1 | 5413.7 | 7793.6 | 9636.7 | 9573.7 | 8643.9 | 7957.1 | 6830.8 | 5595.1 |
| 75°   | 1429.2 | 1382.7 | 1879.0 | 3314.2 | 6079.5 | 8538.9 | 8753.4 | 8089.0 | 6949.3 | 5437.7 | 3351.7 |
| 77.5° | 425.9  | 412.4  | 604.4  | 1337.7 | 3533.1 | 6291.0 | 6373.5 | 6103.5 | 4851.3 | 2978.3 | 1243.2 |
| 80°   | 236.9  | 238.4  | 311.9  | 500.9  | 1553.6 | 3636.6 | 3933.5 | 3770.1 | 2379.9 | 983.8  | 413.9  |
| 82.5° | 132.0  | 139.5  | 195.0  | 296.9  | 713.8  | 1669.1 | 1796.6 | 1732.1 | 860.8  | 461.9  | 226.4  |
| 85°   | 69.0   | 72.0   | 102.0  | 159.0  | 404.9  | 527.9  | 542.9  | 581.9  | 446.9  | 314.9  | 121.5  |
| 87.5° | 27.0   | 27.0   | 37.5   | 66.0   | 150.0  | 163.5  | 147.0  | 178.5  | 256.4  | 204.0  | 60.0   |
| 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°    | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 | 1432.2 |
| 2.5°  | 1454.6 | 1442.7 | 1441.2 | 1421.7 | 1427.7 | 1411.2 | 1412.7 | 1409.7 | 1411.2 | 1408.2 | 1400.7 |
| 5°    | 1447.1 | 1438.2 | 1412.7 | 1429.2 | 1414.2 | 1435.2 | 1451.6 | 1445.6 | 1450.1 | 1448.6 | 1450.1 |
| 7.5°  | 1457.6 | 1445.6 | 1442.7 | 1433.7 | 1447.1 | 1456.1 | 1469.6 | 1507.1 | 1504.1 | 1508.6 | 1517.6 |
| 10°   | 1489.1 | 1475.6 | 1466.6 | 1480.1 | 1472.6 | 1501.1 | 1516.1 | 1535.6 | 1570.1 | 1571.6 | 1553.6 |
| 12.5° | 1550.6 | 1541.6 | 1523.6 | 1526.6 | 1552.1 | 1561.1 | 1570.1 | 1582.1 | 1604.6 | 1600.1 | 1616.6 |
| 15°   | 1621.1 | 1601.6 | 1591.1 | 1588.1 | 1594.1 | 1604.6 | 1603.1 | 1615.1 | 1627.1 | 1637.6 | 1633.1 |
| 17.5° | 1672.1 | 1646.6 | 1649.6 | 1664.6 | 1663.1 | 1660.1 | 1640.6 | 1634.6 | 1640.6 | 1646.6 | 1643.6 |
| 20°   | 1724.6 | 1727.6 | 1705.1 | 1691.6 | 1685.6 | 1655.6 | 1640.6 | 1622.6 | 1604.6 | 1613.6 | 1627.1 |
| 22.5° | 1790.6 | 1777.1 | 1744.1 | 1703.6 | 1673.6 | 1655.6 | 1609.1 | 1577.6 | 1577.6 | 1586.6 | 1582.1 |
| 25°   | 1865.5 | 1837.1 | 1780.1 | 1706.6 | 1669.1 | 1592.6 | 1559.6 | 1555.1 | 1543.1 | 1556.6 | 1562.6 |
| 27.5° | 1924.0 | 1898.5 | 1820.6 | 1696.1 | 1592.6 | 1531.1 | 1511.6 | 1505.6 | 1525.1 | 1526.6 | 1550.6 |
| 30°   | 1948.0 | 1940.5 | 1826.6 | 1669.1 | 1514.6 | 1415.7 | 1403.7 | 1430.7 | 1451.6 | 1483.1 | 1484.6 |
| 32.5° | 1979.5 | 1982.5 | 1835.6 | 1606.1 | 1412.7 | 1313.7 | 1295.7 | 1328.7 | 1388.7 | 1414.2 | 1433.7 |
| 35°   | 2032.0 | 2047.0 | 1828.1 | 1528.1 | 1304.7 | 1210.2 | 1207.2 | 1216.2 | 1274.7 | 1319.7 | 1345.2 |
| 37.5° | 2123.5 | 2120.5 | 1826.6 | 1435.2 | 1219.2 | 1120.2 | 1096.2 | 1099.2 | 1138.2 | 1175.7 | 1171.2 |
| 40°   | 2246.5 | 2234.5 | 1822.1 | 1313.7 | 1108.2 | 1043.7 | 1003.3 | 988.3  | 985.3  | 974.8  | 977.8  |
| 42.5° | 2414.4 | 2390.4 | 1820.6 | 1190.7 | 1007.8 | 938.8  | 910.3  | 871.3  | 842.8  | 788.8  | 791.8  |
| 45°   | 2648.4 | 2606.4 | 1781.6 | 1075.2 | 908.8  | 851.8  | 808.3  | 779.8  | 718.3  | 650.8  | 650.8  |
| 47.5° | 3009.8 | 2873.3 | 1783.1 | 947.8  | 812.8  | 766.3  | 736.3  | 686.8  | 620.8  | 566.9  | 560.9  |
| 50°   | 3542.1 | 3230.2 | 1732.1 | 847.3  | 734.8  | 703.3  | 671.8  | 614.9  | 551.9  | 514.4  | 518.9  |
| 52.5° | 4229.0 | 3762.6 | 1730.6 | 757.3  | 673.3  | 650.8  | 616.4  | 565.4  | 518.9  | 494.9  | 485.9  |
| 55°   | 5047.8 | 4467.4 | 1784.6 | 683.8  | 610.4  | 598.4  | 583.4  | 541.4  | 496.4  | 475.4  | 473.9  |
| 57.5° | 5886.1 | 5155.7 | 1871.5 | 631.3  | 556.4  | 565.4  | 554.9  | 521.9  | 485.9  | 461.9  | 458.9  |
| 60°   | 6631.4 | 5701.6 | 1696.1 | 568.4  | 508.4  | 527.9  | 542.9  | 514.4  | 494.9  | 493.4  | 482.9  |
| 62.5° | 7193.8 | 5935.6 | 1289.7 | 520.4  | 482.9  | 518.9  | 559.4  | 577.4  | 568.4  | 580.4  | 581.9  |
| 65°   | 7399.2 | 5794.6 | 887.8  | 494.9  | 463.4  | 539.9  | 629.8  | 623.8  | 571.4  | 548.9  | 560.9  |
| 67.5° | 7111.3 | 5223.2 | 658.3  | 464.9  | 449.9  | 583.4  | 670.3  | 595.4  | 515.9  | 512.9  | 503.9  |
| 70°   | 6115.5 | 4426.9 | 536.9  | 433.4  | 427.4  | 559.4  | 652.3  | 551.9  | 485.9  | 466.4  | 457.4  |
| 72°   | 4872.3 | 3447.7 | 470.9  | 410.9  | 391.4  | 499.4  | 610.4  | 517.4  | 460.4  | 436.4  | 425.9  |
| 72.5° | 4447.9 | 3195.7 | 461.9  | 400.4  | 383.9  | 485.9  | 589.4  | 506.9  | 454.4  | 433.4  | 416.9  |
| 75°   | 2439.9 | 1636.1 | 406.4  | 367.4  | 323.9  | 419.9  | 545.9  | 475.4  | 428.9  | 398.9  | 395.9  |
| 77.5° | 907.3  | 634.3  | 350.9  | 325.4  | 280.4  | 362.9  | 496.4  | 451.4  | 389.9  | 352.4  | 344.9  |
| 80°   | 347.9  | 334.4  | 286.4  | 274.4  | 235.4  | 317.9  | 457.4  | 404.9  | 331.4  | 293.9  | 281.9  |
| 82.5° | 211.4  | 195.0  | 217.4  | 214.4  | 180.0  | 289.4  | 430.4  | 379.4  | 293.9  | 238.4  | 230.9  |
| 85°   | 115.5  | 115.5  | 151.5  | 145.5  | 126.0  | 230.9  | 325.4  | 251.9  | 186.0  | 153.0  | 156.0  |
| 87.5° | 51.0   | 60.0   | 81.0   | 76.5   | 69.0   | 130.5  | 159.0  | 133.5  | 93.0   | 63.0   | 67.5   |
| 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)