

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: P482756

Luminaire Tested: **IFLD-S-SA2D-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482756  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

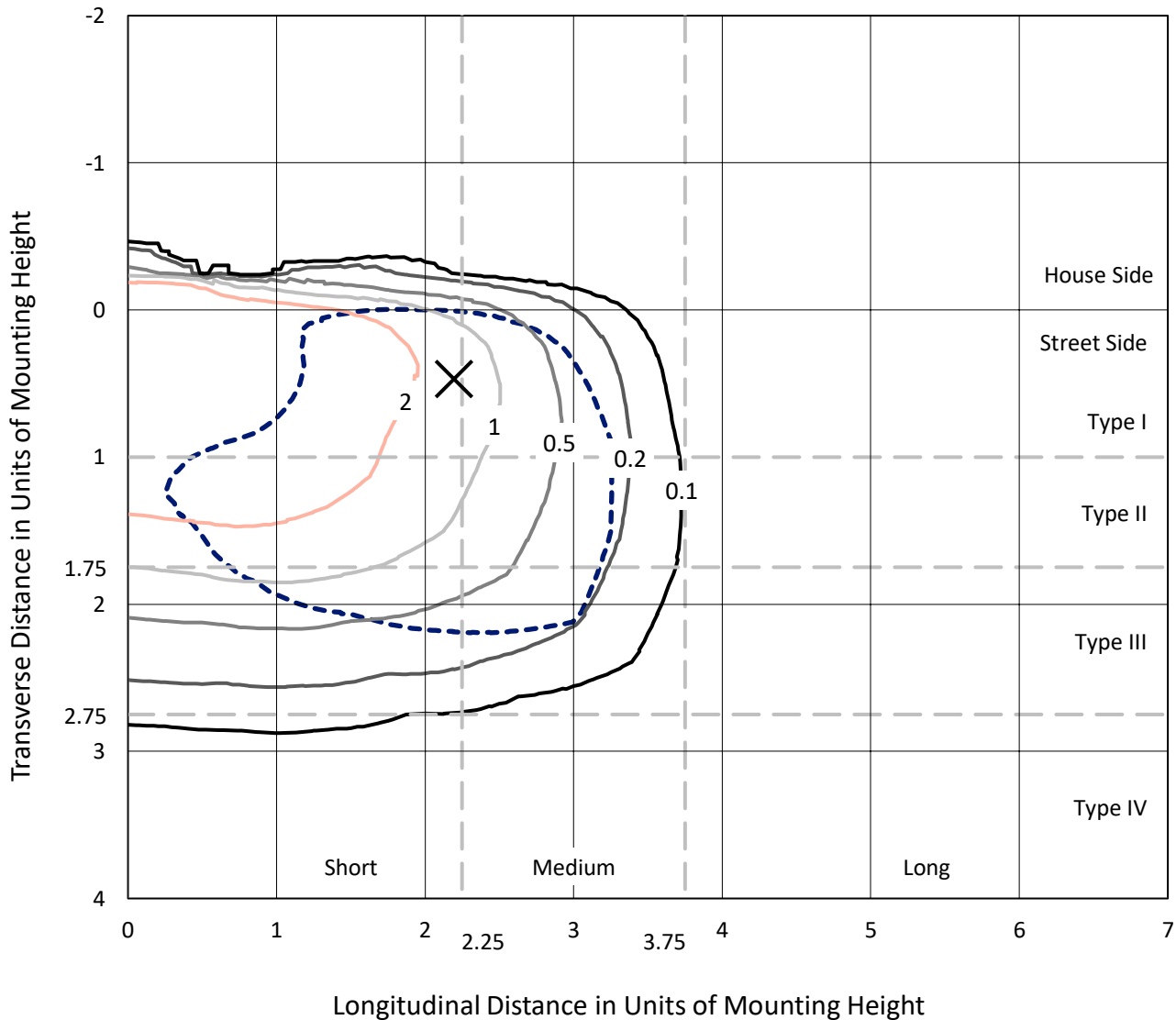
Lumens per Lamp: N/A  
Luminaire Lumens: 10208.5 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

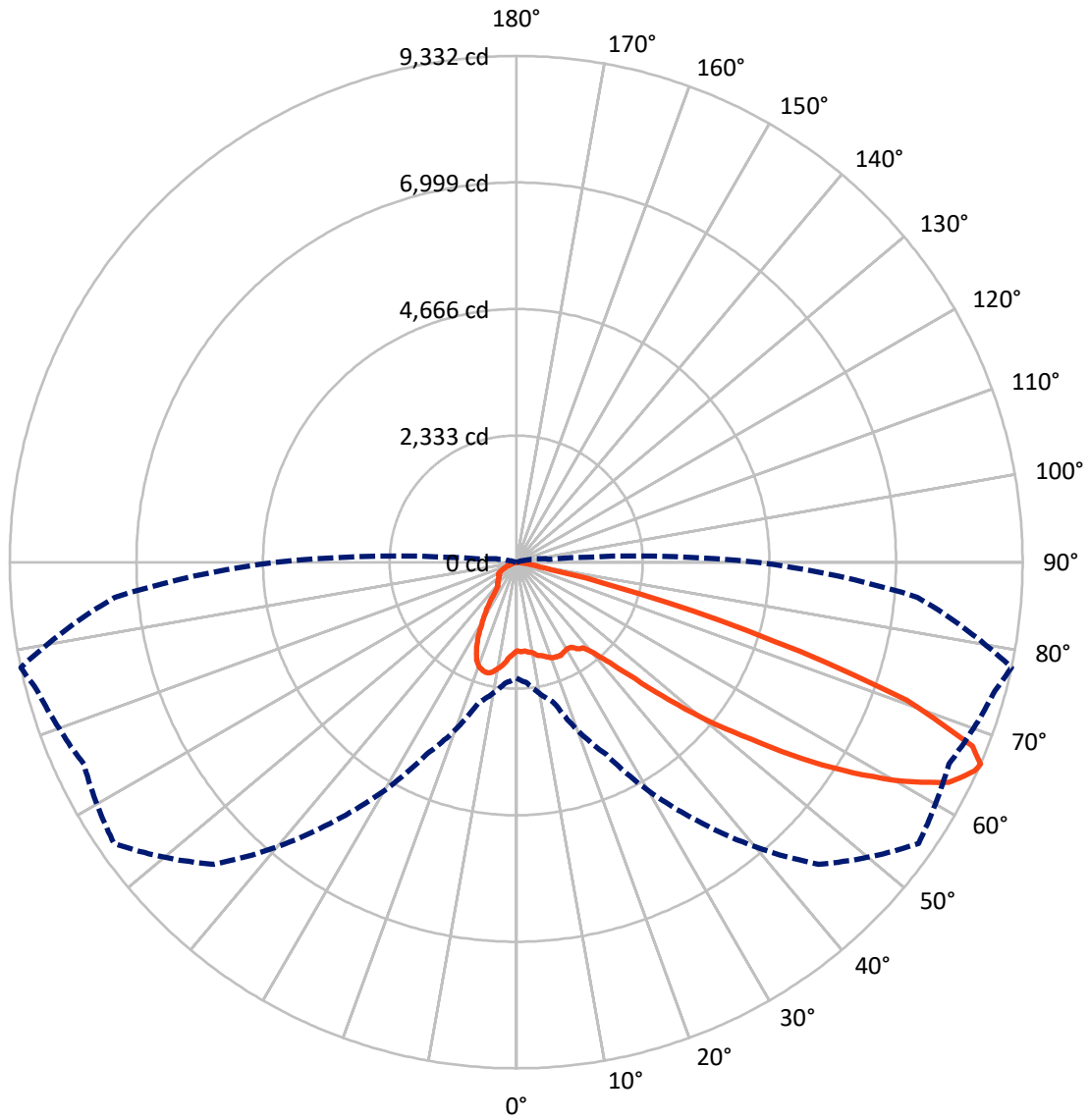
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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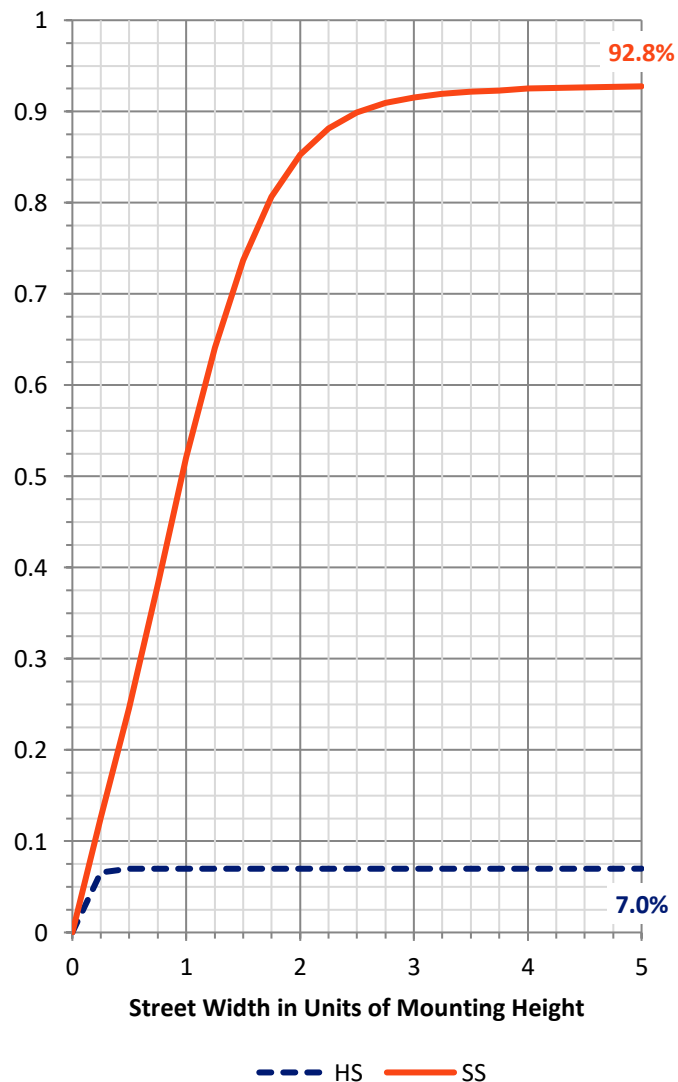
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 717.7    | 0.0    | 717.7   |
|                    | % Fixture | 7.0      | 0.0    | 7.0     |
| <b>Street Side</b> | Lumens    | 9490.8   | 0.0    | 9490.8  |
|                    | % Fixture | 93.0     | 0.0    | 93.0    |
| <b>Total</b>       | Lumens    | 10208.5  | 0.0    | 10208.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 149.6   | 1.5       |
| 10°-20°   | 337.7   | 3.3       |
| 20°-30°   | 482.6   | 4.7       |
| 30°-40°   | 826.1   | 8.1       |
| 40°-50°   | 1491.1  | 14.6      |
| 50°-60°   | 2549.9  | 25.0      |
| 60°-70°   | 3138.5  | 30.7      |
| 70°-80°   | 1186.5  | 11.6      |
| 80°-90°   | 46.3    | 0.5       |
| 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°    | 10208.5 | 100.0     |
| 0°-180°   | 10208.5 | 100.0     |

**Coefficient of Utilization**

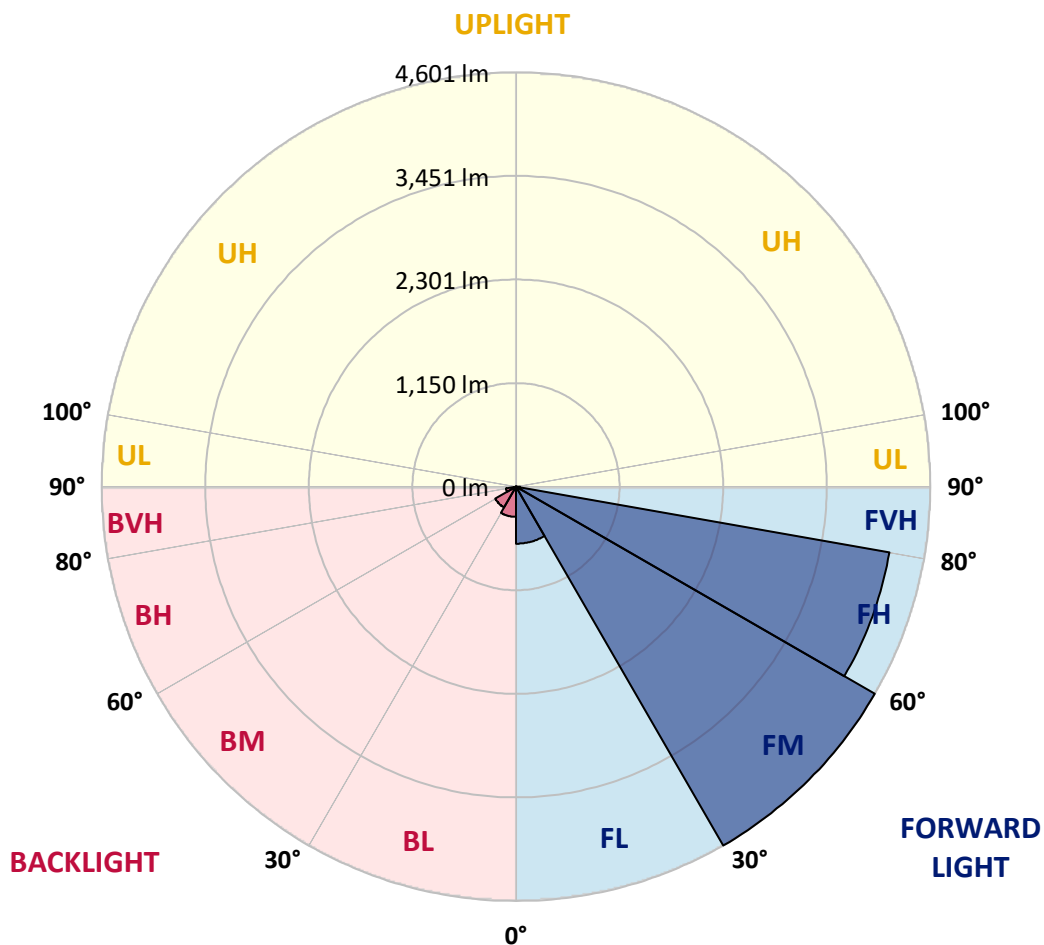


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 633.7  | 6.2       |                         |      |         |
| FM (30°-60°)   | 4601.2 | 45.1      |                         |      |         |
| FH (60°-80°)   | 4211.4 | 41.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 44.5   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 336.1  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 266.0  | 2.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 113.7  | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.9    | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 |
| 2.5°  | 1504.0 | 1490.1 | 1504.0 | 1524.0 | 1534.8 | 1544.1 | 1576.5 | 1604.2 | 1633.5 | 1653.6 | 1647.4 |
| 5°    | 1394.4 | 1420.7 | 1423.7 | 1429.9 | 1446.9 | 1502.4 | 1520.9 | 1568.7 | 1641.2 | 1647.4 | 1675.2 |
| 7.5°  | 1308.1 | 1300.3 | 1320.4 | 1360.5 | 1403.7 | 1436.1 | 1490.1 | 1573.4 | 1648.9 | 1675.2 | 1729.2 |
| 10°   | 1183.1 | 1198.5 | 1220.1 | 1260.2 | 1312.7 | 1392.9 | 1488.5 | 1581.1 | 1689.1 | 1698.3 | 1798.6 |
| 12.5° | 1115.2 | 1099.8 | 1133.7 | 1175.4 | 1264.9 | 1338.9 | 1456.1 | 1567.2 | 1713.7 | 1764.6 | 1880.3 |
| 15°   | 1059.7 | 1067.4 | 1099.8 | 1127.6 | 1201.6 | 1295.7 | 1433.0 | 1601.1 | 1755.4 | 1790.9 | 1966.7 |
| 17.5° | 1036.6 | 1031.9 | 1056.6 | 1084.4 | 1175.4 | 1281.8 | 1423.7 | 1602.7 | 1792.4 | 1838.7 | 2025.3 |
| 20°   | 1047.4 | 1056.6 | 1048.9 | 1075.1 | 1132.2 | 1240.2 | 1437.6 | 1632.0 | 1820.2 | 1883.4 | 2088.6 |
| 22.5° | 1217.0 | 1204.7 | 1143.0 | 1093.6 | 1096.7 | 1223.2 | 1426.8 | 1650.5 | 1844.8 | 1895.8 | 2131.8 |
| 25°   | 1659.7 | 1593.4 | 1440.7 | 1251.0 | 1126.0 | 1176.9 | 1414.5 | 1644.3 | 1840.2 | 1903.5 | 2158.0 |
| 27.5° | 2105.5 | 2048.5 | 1898.8 | 1604.2 | 1244.8 | 1158.4 | 1371.3 | 1648.9 | 1817.1 | 1875.7 | 2114.8 |
| 30°   | 2576.0 | 2606.9 | 2384.7 | 2034.6 | 1556.4 | 1260.2 | 1343.5 | 1624.3 | 1801.7 | 1851.0 | 2124.0 |
| 32.5° | 3058.8 | 3046.5 | 2912.3 | 2532.8 | 2002.2 | 1485.4 | 1388.3 | 1648.9 | 1821.7 | 1869.5 | 2178.0 |
| 35°   | 3436.7 | 3393.5 | 3257.8 | 2915.4 | 2370.8 | 1824.8 | 1542.5 | 1766.2 | 1909.6 | 1966.7 | 2255.2 |
| 37.5° | 3623.4 | 3641.9 | 3563.2 | 3265.5 | 2775.0 | 2139.5 | 1735.3 | 1766.2 | 1937.4 | 2003.7 | 2380.1 |
| 40°   | 3768.4 | 3823.9 | 3794.6 | 3699.0 | 3176.0 | 2494.2 | 1948.2 | 1875.7 | 2077.8 | 2202.7 | 2614.6 |
| 42.5° | 3942.7 | 3916.4 | 4089.2 | 4001.3 | 3700.5 | 2941.6 | 2321.5 | 2136.4 | 2409.4 | 2529.7 | 2966.3 |
| 45°   | 4035.2 | 4135.5 | 4266.6 | 4379.2 | 4186.4 | 3500.0 | 2808.9 | 2597.6 | 2916.9 | 3069.6 | 3489.2 |
| 47.5° | 4272.8 | 4312.9 | 4525.7 | 4667.7 | 4581.3 | 4138.6 | 3549.3 | 3271.7 | 3555.5 | 3796.1 | 4087.7 |
| 50°   | 4411.6 | 4357.6 | 4655.3 | 4871.3 | 4920.6 | 4667.7 | 4212.6 | 3996.7 | 4314.4 | 4621.4 | 4647.6 |
| 52.5° | 4289.7 | 4444.0 | 4741.7 | 5128.9 | 5266.1 | 5139.7 | 4991.6 | 4897.5 | 5121.2 | 5405.0 | 5278.5 |
| 55°   | 3862.5 | 3967.3 | 4692.3 | 5411.1 | 5853.8 | 5795.2 | 5932.5 | 5870.8 | 6096.0 | 6396.8 | 6015.8 |
| 57.5° | 3518.5 | 3649.6 | 4286.7 | 5557.7 | 6401.4 | 6574.2 | 6747.0 | 6708.4 | 6979.9 | 7326.9 | 6640.5 |
| 60°   | 3304.1 | 3379.7 | 3993.6 | 5520.7 | 6725.4 | 7379.4 | 7769.6 | 7498.2 | 7940.9 | 8206.2 | 7129.5 |
| 62.5° | 2932.3 | 2980.1 | 3566.3 | 5030.1 | 6822.5 | 7948.6 | 8610.3 | 8241.7 | 8625.7 | 8949.7 | 7481.2 |
| 65°   | 2350.8 | 2480.4 | 2964.7 | 4295.9 | 6180.9 | 8053.5 | 9134.8 | 8701.3 | 9073.1 | 9285.9 | 7587.6 |
| 66°   | 2139.5 | 2233.6 | 2677.8 | 3907.2 | 5815.3 | 7879.2 | 9046.9 | 8797.0 | 9137.9 | 9332.2 | 7424.1 |
| 67.5° | 1775.4 | 1857.2 | 2210.4 | 3353.4 | 5067.2 | 7495.1 | 9108.6 | 8732.2 | 9187.2 | 9068.4 | 7205.1 |
| 70°   | 1175.4 | 1227.8 | 1511.7 | 2267.5 | 3529.3 | 6131.5 | 8448.4 | 8226.2 | 8076.6 | 7630.8 | 5633.3 |
| 72.5° | 549.1  | 624.7  | 944.0  | 1374.4 | 2070.1 | 4289.7 | 6888.9 | 6591.2 | 5664.1 | 4951.5 | 3554.0 |
| 75°   | 248.3  | 282.3  | 518.3  | 788.2  | 928.6  | 2222.8 | 4444.0 | 4013.6 | 2819.7 | 2341.5 | 1556.4 |
| 77.5° | 134.2  | 152.7  | 253.0  | 374.8  | 337.8  | 779.0  | 2199.6 | 1829.4 | 888.5  | 650.9  | 452.0  |
| 80°   | 103.3  | 121.9  | 211.3  | 214.4  | 124.9  | 202.1  | 817.5  | 566.1  | 222.1  | 168.1  | 108.0  |
| 82.5° | 54.0   | 77.1   | 166.6  | 138.8  | 63.2   | 81.8   | 253.0  | 157.3  | 69.4   | 55.5   | 46.3   |
| 85°   | 21.6   | 33.9   | 94.1   | 92.6   | 37.0   | 27.8   | 71.0   | 47.8   | 27.8   | 23.1   | 21.6   |
| 87.5° | 1.5    | 1.5    | 50.9   | 35.5   | 23.1   | 7.7    | 10.8   | 10.8   | 13.9   | 12.3   | 15.4   |
| 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°    | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 | 1635.1 |
| 2.5°  | 1675.2 | 1693.7 | 1696.8 | 1747.7 | 1758.5 | 1747.7 | 1775.4 | 1770.8 | 1783.1 | 1773.9 | 1756.9 |
| 5°    | 1713.7 | 1740.0 | 1790.9 | 1829.4 | 1829.4 | 1798.6 | 1773.9 | 1741.5 | 1693.7 | 1681.3 | 1672.1 |
| 7.5°  | 1780.1 | 1863.4 | 1909.6 | 1885.0 | 1835.6 | 1719.9 | 1559.5 | 1442.3 | 1343.5 | 1306.5 | 1289.5 |
| 10°   | 1897.3 | 1943.6 | 1997.6 | 1897.3 | 1692.1 | 1446.9 | 1176.9 | 999.5  | 860.7  | 829.9  | 806.7  |
| 12.5° | 1972.9 | 2046.9 | 2077.8 | 1829.4 | 1426.8 | 1061.3 | 768.2  | 567.6  | 470.5  | 396.4  | 384.1  |
| 15°   | 2071.6 | 2156.4 | 2093.2 | 1645.9 | 1124.5 | 695.7  | 398.0  | 248.3  | 202.1  | 189.7  | 189.7  |
| 17.5° | 2139.5 | 2232.0 | 2030.0 | 1417.6 | 797.5  | 370.2  | 197.4  | 171.2  | 168.1  | 169.7  | 166.6  |
| 20°   | 2258.2 | 2313.8 | 1934.3 | 1152.3 | 476.6  | 189.7  | 158.9  | 152.7  | 149.6  | 154.3  | 151.2  |
| 22.5° | 2303.0 | 2353.9 | 1778.5 | 834.5  | 214.4  | 126.5  | 118.8  | 114.1  | 117.2  | 115.7  | 114.1  |
| 25°   | 2299.9 | 2326.1 | 1522.5 | 478.2  | 63.2   | 49.4   | 44.7   | 44.7   | 41.6   | 43.2   | 41.6   |
| 27.5° | 2323.0 | 2258.2 | 1235.6 | 141.9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 30°   | 2335.4 | 2148.7 | 879.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 2341.5 | 2091.7 | 566.1  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 2389.4 | 1977.5 | 242.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 2421.7 | 1831.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 2555.9 | 1784.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 2730.3 | 1698.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 2972.4 | 1570.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 3293.3 | 1494.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 3532.4 | 1375.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 3836.2 | 1305.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 4197.2 | 1308.1 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 4525.7 | 1286.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 4693.9 | 1099.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 4658.4 | 890.0  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 4535.0 | 698.8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 4450.2 | 618.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4192.6 | 495.1  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3336.5 | 339.4  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2122.5 | 208.2  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 978.0  | 95.6   | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 307.0  | 58.6   | 12.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 80.2   | 37.0   | 12.3   | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 41.6   | 26.2   | 10.8   | 4.6    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 26.2   | 10.8   | 4.6    | 3.1    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 23.1   | 6.2    | 3.1    | 3.1    | 1.5    | 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)