

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: P691862

Luminaire Tested: **CRTK2-C01H-D-U-T2-7050-U0**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C01H-D-U-T2-7050-U0  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND U0 SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9500 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

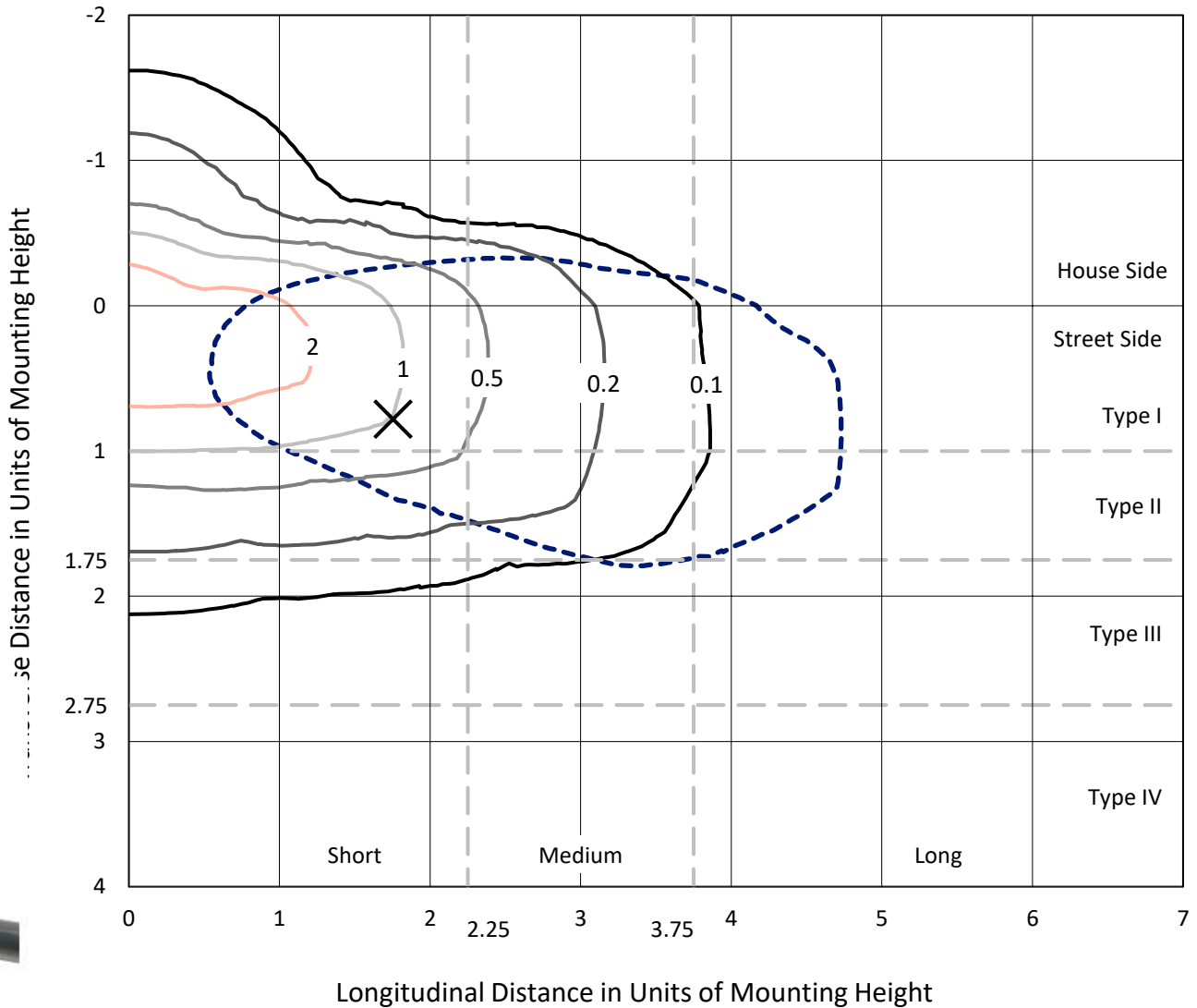
Input Watts (W): 70.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

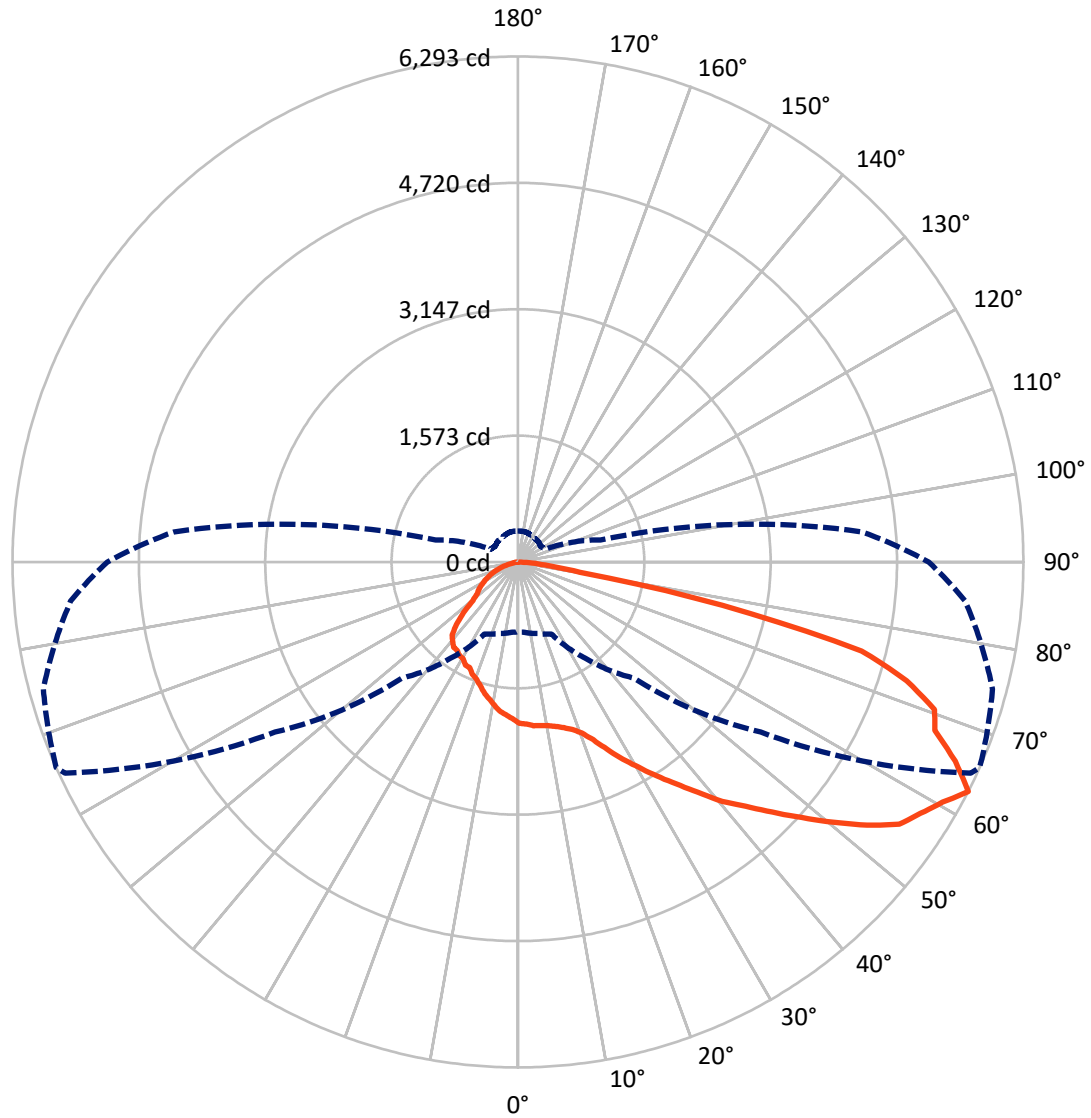
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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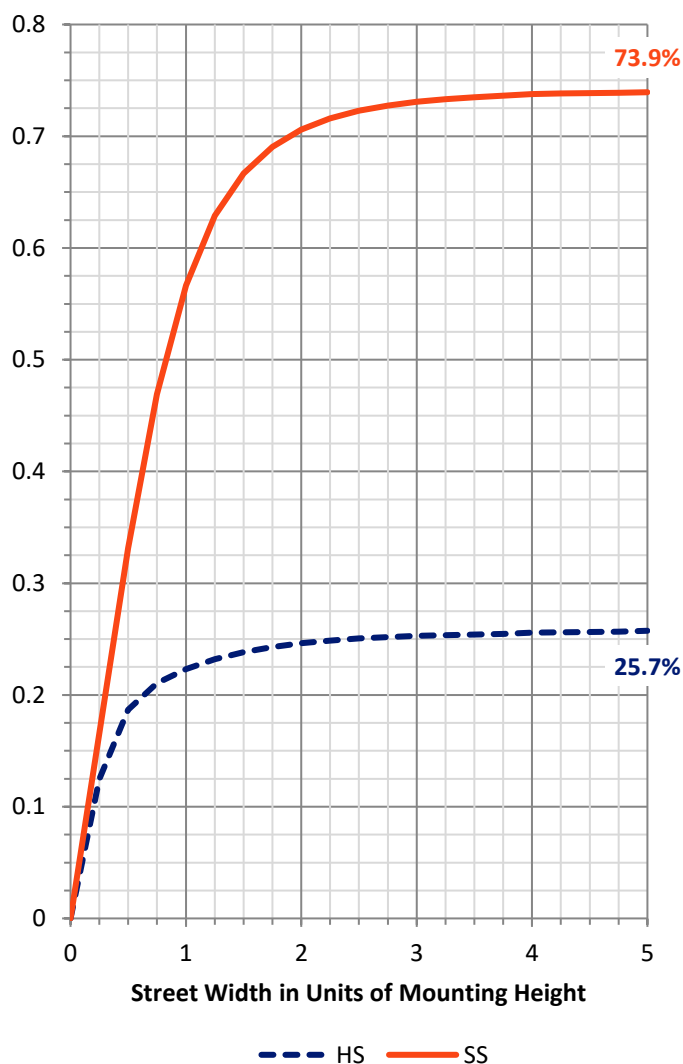
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2482.3   | 0.0    | 2482.3 |
|                    | % Fixture | 26.1     | 0.0    | 26.1   |
| <b>Street Side</b> | Lumens    | 7017.7   | 0.0    | 7017.7 |
|                    | % Fixture | 73.9     | 0.0    | 73.9   |
| <b>Total</b>       | Lumens    | 9500.0   | 0.0    | 9500.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.0  | 2.0       |
| 10°-20°   | 533.5  | 5.6       |
| 20°-30°   | 866.3  | 9.1       |
| 30°-40°   | 1249.4 | 13.2      |
| 40°-50°   | 1625.2 | 17.1      |
| 50°-60°   | 1887.6 | 19.9      |
| 60°-70°   | 1867.6 | 19.7      |
| 70°-80°   | 1156.8 | 12.2      |
| 80°-90°   | 125.6  | 1.3       |
| 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°    | 9500.0 | 100.0     |
| 0°-180°   | 9500.0 | 100.0     |

**Coefficient of Utilization**

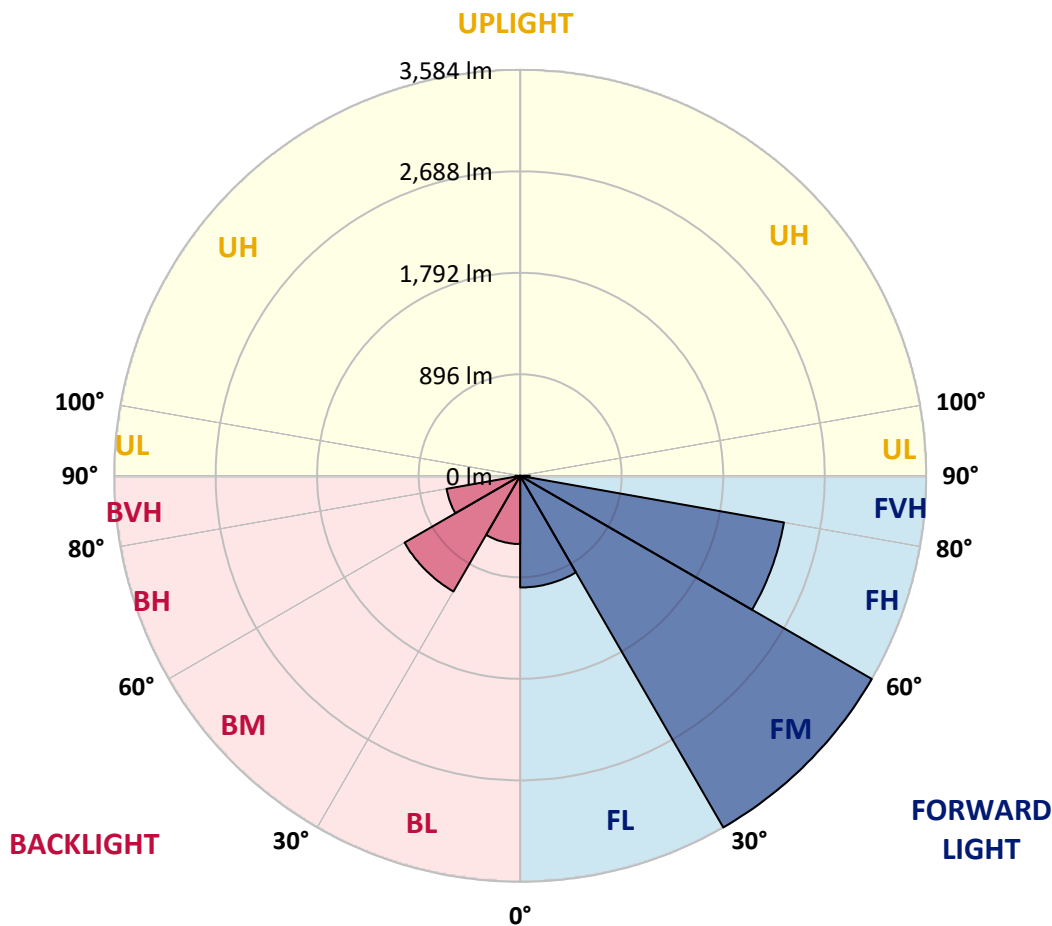


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 985.6  | 10.4      |                         |      |         |
| FM (30°-60°)   | 3583.6 | 37.7      |                         |      |         |
| FH (60°-80°)   | 2364.3 | 24.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 84.2   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 602.1  | 6.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 1178.7 | 12.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 660.1  | 6.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 41.4   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 |
| 2.5°  | 2081.4 | 2081.4 | 2087.9 | 2065.0 | 2052.0 | 2042.2 | 2032.4 | 2022.6 | 2019.3 | 2009.5 | 1996.4 |
| 5°    | 2172.9 | 2172.9 | 2176.1 | 2153.2 | 2127.1 | 2097.7 | 2068.3 | 2048.7 | 2048.7 | 2025.8 | 1993.1 |
| 7.5°  | 2221.9 | 2221.9 | 2221.9 | 2195.7 | 2179.4 | 2159.8 | 2114.0 | 2058.5 | 2055.2 | 2032.4 | 1986.6 |
| 10°   | 2221.9 | 2221.9 | 2234.9 | 2195.7 | 2182.7 | 2163.1 | 2136.9 | 2078.1 | 2071.6 | 2019.3 | 1957.2 |
| 12.5° | 2261.1 | 2267.6 | 2261.1 | 2218.6 | 2205.5 | 2189.2 | 2153.2 | 2104.2 | 2101.0 | 2032.4 | 1944.1 |
| 15°   | 2316.6 | 2319.9 | 2310.1 | 2280.7 | 2267.6 | 2241.5 | 2199.0 | 2146.7 | 2140.2 | 2058.5 | 1953.9 |
| 17.5° | 2329.7 | 2333.0 | 2339.5 | 2303.6 | 2303.6 | 2293.7 | 2270.9 | 2208.8 | 2192.5 | 2120.6 | 1983.3 |
| 20°   | 2323.2 | 2326.4 | 2336.2 | 2329.7 | 2333.0 | 2326.4 | 2342.8 | 2290.5 | 2270.9 | 2192.5 | 2029.1 |
| 22.5° | 2352.6 | 2359.1 | 2378.7 | 2382.0 | 2395.0 | 2408.1 | 2414.6 | 2417.9 | 2404.8 | 2313.4 | 2123.8 |
| 25°   | 2362.4 | 2382.0 | 2408.1 | 2444.1 | 2489.8 | 2515.9 | 2551.9 | 2587.8 | 2584.6 | 2493.1 | 2280.7 |
| 27.5° | 2316.6 | 2339.5 | 2421.2 | 2476.7 | 2578.0 | 2649.9 | 2731.6 | 2780.6 | 2780.6 | 2705.4 | 2460.4 |
| 30°   | 2359.1 | 2368.9 | 2411.4 | 2489.8 | 2607.4 | 2770.8 | 2898.2 | 2960.3 | 2966.8 | 2917.8 | 2636.8 |
| 32.5° | 2270.9 | 2293.7 | 2398.3 | 2548.6 | 2728.3 | 2908.0 | 3035.5 | 3169.4 | 3176.0 | 3159.6 | 2895.0 |
| 35°   | 2261.1 | 2274.1 | 2333.0 | 2493.1 | 2725.1 | 3035.5 | 3205.4 | 3375.3 | 3391.6 | 3411.2 | 3146.6 |
| 37.5° | 2159.8 | 2185.9 | 2300.3 | 2499.6 | 2816.5 | 3120.4 | 3349.1 | 3610.5 | 3636.7 | 3698.8 | 3362.2 |
| 40°   | 2052.0 | 2071.6 | 2166.3 | 2382.0 | 2787.1 | 3228.2 | 3489.6 | 3888.3 | 3920.9 | 3973.2 | 3659.5 |
| 42.5° | 1904.9 | 1944.1 | 2107.5 | 2333.0 | 2774.1 | 3260.9 | 3646.5 | 4143.1 | 4156.2 | 4247.7 | 3894.8 |
| 45°   | 1767.7 | 1780.8 | 1904.9 | 2163.1 | 2659.7 | 3309.9 | 3764.1 | 4430.7 | 4440.5 | 4499.3 | 4090.8 |
| 47.5° | 1656.6 | 1672.9 | 1800.4 | 2019.3 | 2555.1 | 3296.9 | 3881.7 | 4708.4 | 4754.1 | 4819.5 | 4329.4 |
| 50°   | 1313.5 | 1349.5 | 1686.0 | 1895.1 | 2375.4 | 3274.0 | 3976.5 | 5041.7 | 5094.0 | 5156.0 | 4584.2 |
| 52.5° | 1133.8 | 1150.1 | 1320.0 | 1771.0 | 2199.0 | 3176.0 | 4064.7 | 5381.5 | 5443.6 | 5410.9 | 4907.7 |
| 55°   | 1055.4 | 1065.2 | 1143.6 | 1525.9 | 2042.2 | 2989.7 | 4130.1 | 5698.4 | 5763.8 | 5606.9 | 5162.6 |
| 57.5° | 999.8  | 1012.9 | 1058.7 | 1248.2 | 1865.7 | 2663.0 | 4136.6 | 5884.7 | 5907.5 | 5770.3 | 5267.1 |
| 60°   | 924.7  | 934.5  | 999.8  | 1091.3 | 1659.9 | 2319.9 | 4019.0 | 5966.4 | 6074.2 | 5943.5 | 5502.4 |
| 62.5° | 869.1  | 878.9  | 921.4  | 990.0  | 1460.5 | 2045.4 | 3692.2 | 6221.2 | 6293.1 | 6116.7 | 5590.6 |
| 65°   | 803.8  | 803.8  | 846.3  | 914.9  | 1333.1 | 1878.8 | 3522.3 | 6139.5 | 5982.7 | 6067.7 | 5698.4 |
| 67.5° | 709.0  | 715.6  | 758.0  | 813.6  | 1117.5 | 1718.7 | 3104.1 | 5760.5 | 5597.1 | 5832.4 | 5414.2 |
| 70°   | 630.6  | 624.1  | 669.8  | 712.3  | 914.9  | 1516.1 | 2571.5 | 5368.4 | 5502.4 | 5476.2 | 5152.8 |
| 72.5° | 526.1  | 519.5  | 558.7  | 604.5  | 738.4  | 1258.0 | 2032.4 | 4982.9 | 5061.3 | 4897.9 | 4571.2 |
| 75°   | 408.4  | 369.2  | 424.8  | 483.6  | 581.6  | 996.6  | 1440.9 | 4126.8 | 4420.9 | 4616.9 | 3898.1 |
| 77.5° | 65.3   | 65.3   | 81.7   | 114.4  | 189.5  | 506.5  | 643.7  | 2267.6 | 2600.9 | 3930.7 | 3417.8 |
| 80°   | 52.3   | 52.3   | 58.8   | 78.4   | 114.4  | 277.7  | 215.7  | 702.5  | 784.2  | 1695.8 | 1967.0 |
| 82.5° | 29.4   | 29.4   | 42.5   | 52.3   | 71.9   | 85.0   | 94.8   | 343.1  | 382.3  | 601.2  | 761.3  |
| 85°   | 16.3   | 16.3   | 22.9   | 26.1   | 29.4   | 29.4   | 29.4   | 156.8  | 176.4  | 320.2  | 346.3  |
| 87.5° | 9.8    | 9.8    | 9.8    | 9.8    | 9.8    | 6.5    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    |
| 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°    | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 | 2009.5 |
| 2.5°  | 1989.9 | 1980.1 | 1963.7 | 1950.7 | 1940.9 | 1931.1 | 1914.7 | 1904.9 | 1904.9 | 1921.3 | 1924.5 |
| 5°    | 1973.5 | 1950.7 | 1921.3 | 1908.2 | 1891.9 | 1875.5 | 1849.4 | 1836.3 | 1833.0 | 1842.8 | 1849.4 |
| 7.5°  | 1960.5 | 1927.8 | 1898.4 | 1865.7 | 1816.7 | 1774.2 | 1751.4 | 1735.0 | 1741.6 | 1757.9 | 1751.4 |
| 10°   | 1921.3 | 1891.9 | 1846.1 | 1797.1 | 1738.3 | 1702.3 | 1666.4 | 1646.8 | 1650.1 | 1659.9 | 1650.1 |
| 12.5° | 1904.9 | 1865.7 | 1790.6 | 1731.7 | 1679.5 | 1610.9 | 1565.1 | 1535.7 | 1535.7 | 1552.0 | 1552.0 |
| 15°   | 1904.9 | 1846.1 | 1744.8 | 1672.9 | 1591.2 | 1522.6 | 1470.4 | 1444.2 | 1460.5 | 1450.7 | 1444.2 |
| 17.5° | 1921.3 | 1829.8 | 1715.4 | 1594.5 | 1496.5 | 1427.9 | 1365.8 | 1329.9 | 1339.7 | 1346.2 | 1339.7 |
| 20°   | 1940.9 | 1829.8 | 1679.5 | 1532.4 | 1418.1 | 1320.0 | 1251.4 | 1212.2 | 1209.0 | 1212.2 | 1218.8 |
| 22.5° | 2006.2 | 1872.2 | 1656.6 | 1493.2 | 1320.0 | 1225.3 | 1156.7 | 1088.1 | 1084.8 | 1081.5 | 1088.1 |
| 25°   | 2117.3 | 1950.7 | 1672.9 | 1421.3 | 1264.5 | 1124.0 | 1039.0 | 980.2  | 960.6  | 957.4  | 963.9  |
| 27.5° | 2300.3 | 2087.9 | 1699.1 | 1411.5 | 1163.2 | 1035.8 | 931.2  | 865.9  | 846.3  | 852.8  | 849.5  |
| 30°   | 2499.6 | 2264.3 | 1774.2 | 1342.9 | 1104.4 | 905.1  | 807.1  | 751.5  | 731.9  | 718.8  | 722.1  |
| 32.5° | 2646.6 | 2440.8 | 1869.0 | 1320.0 | 990.0  | 764.6  | 692.7  | 660.0  | 637.2  | 620.8  | 617.5  |
| 35°   | 2878.6 | 2591.1 | 1953.9 | 1267.8 | 888.7  | 673.1  | 614.3  | 578.3  | 565.3  | 555.5  | 555.5  |
| 37.5° | 3100.8 | 2774.1 | 2038.9 | 1251.4 | 758.0  | 611.0  | 539.1  | 516.3  | 509.7  | 503.2  | 503.2  |
| 40°   | 3323.0 | 2960.3 | 2087.9 | 1186.1 | 653.5  | 535.9  | 467.2  | 464.0  | 473.8  | 467.2  | 470.5  |
| 42.5° | 3597.5 | 3153.1 | 2136.9 | 1124.0 | 578.3  | 457.4  | 418.2  | 444.4  | 464.0  | 467.2  | 467.2  |
| 45°   | 3787.0 | 3283.8 | 2156.5 | 973.7  | 499.9  | 398.6  | 408.4  | 437.8  | 460.7  | 470.5  | 467.2  |
| 47.5° | 3960.1 | 3460.2 | 2127.1 | 790.7  | 434.6  | 388.8  | 405.2  | 424.8  | 457.4  | 470.5  | 470.5  |
| 50°   | 4130.1 | 3607.3 | 2101.0 | 584.9  | 411.7  | 392.1  | 405.2  | 415.0  | 450.9  | 464.0  | 464.0  |
| 52.5° | 4368.6 | 3724.9 | 2012.7 | 490.1  | 392.1  | 395.4  | 415.0  | 411.7  | 441.1  | 460.7  | 467.2  |
| 55°   | 4698.6 | 3999.4 | 1842.8 | 464.0  | 388.8  | 392.1  | 415.0  | 415.0  | 434.6  | 450.9  | 460.7  |
| 57.5° | 4845.6 | 4117.0 | 1555.3 | 437.8  | 379.0  | 388.8  | 405.2  | 408.4  | 431.3  | 441.1  | 437.8  |
| 60°   | 5012.3 | 4264.0 | 1274.3 | 408.4  | 362.7  | 382.3  | 388.8  | 401.9  | 418.2  | 418.2  | 415.0  |
| 62.5° | 5113.6 | 4300.0 | 1061.9 | 375.8  | 343.1  | 359.4  | 359.4  | 372.5  | 385.6  | 385.6  | 385.6  |
| 65°   | 5162.6 | 4264.0 | 794.0  | 346.3  | 320.2  | 333.3  | 330.0  | 336.5  | 346.3  | 330.0  | 330.0  |
| 67.5° | 4969.8 | 4130.1 | 548.9  | 307.1  | 294.1  | 307.1  | 303.9  | 307.1  | 303.9  | 290.8  | 294.1  |
| 70°   | 4639.8 | 3754.3 | 379.0  | 261.4  | 258.1  | 281.0  | 284.3  | 277.7  | 258.1  | 248.3  | 248.3  |
| 72.5° | 4224.8 | 3012.6 | 261.4  | 209.1  | 218.9  | 248.3  | 254.9  | 241.8  | 222.2  | 212.4  | 212.4  |
| 75°   | 3832.7 | 2604.2 | 186.2  | 143.8  | 147.0  | 189.5  | 202.6  | 202.6  | 196.0  | 261.4  | 277.7  |
| 77.5° | 2666.2 | 1686.0 | 107.8  | 75.2   | 71.9   | 107.8  | 124.2  | 127.4  | 245.1  | 264.7  | 258.1  |
| 80°   | 1581.4 | 794.0  | 78.4   | 45.7   | 45.7   | 62.1   | 85.0   | 166.6  | 281.0  | 189.5  | 169.9  |
| 82.5° | 604.5  | 303.9  | 49.0   | 29.4   | 26.1   | 32.7   | 49.0   | 258.1  | 163.4  | 107.8  | 98.0   |
| 85°   | 218.9  | 75.2   | 22.9   | 16.3   | 16.3   | 19.6   | 29.4   | 218.9  | 114.4  | 81.7   | 78.4   |
| 87.5° | 3.3    | 3.3    | 6.5    | 6.5    | 6.5    | 3.3    | 3.3    | 6.5    | 6.5    | 6.5    | 3.3    |
| 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)