

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: INVUE

Report Number: P677058

Luminaire Tested: **CCW-SA-2D-835-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677058  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-835-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

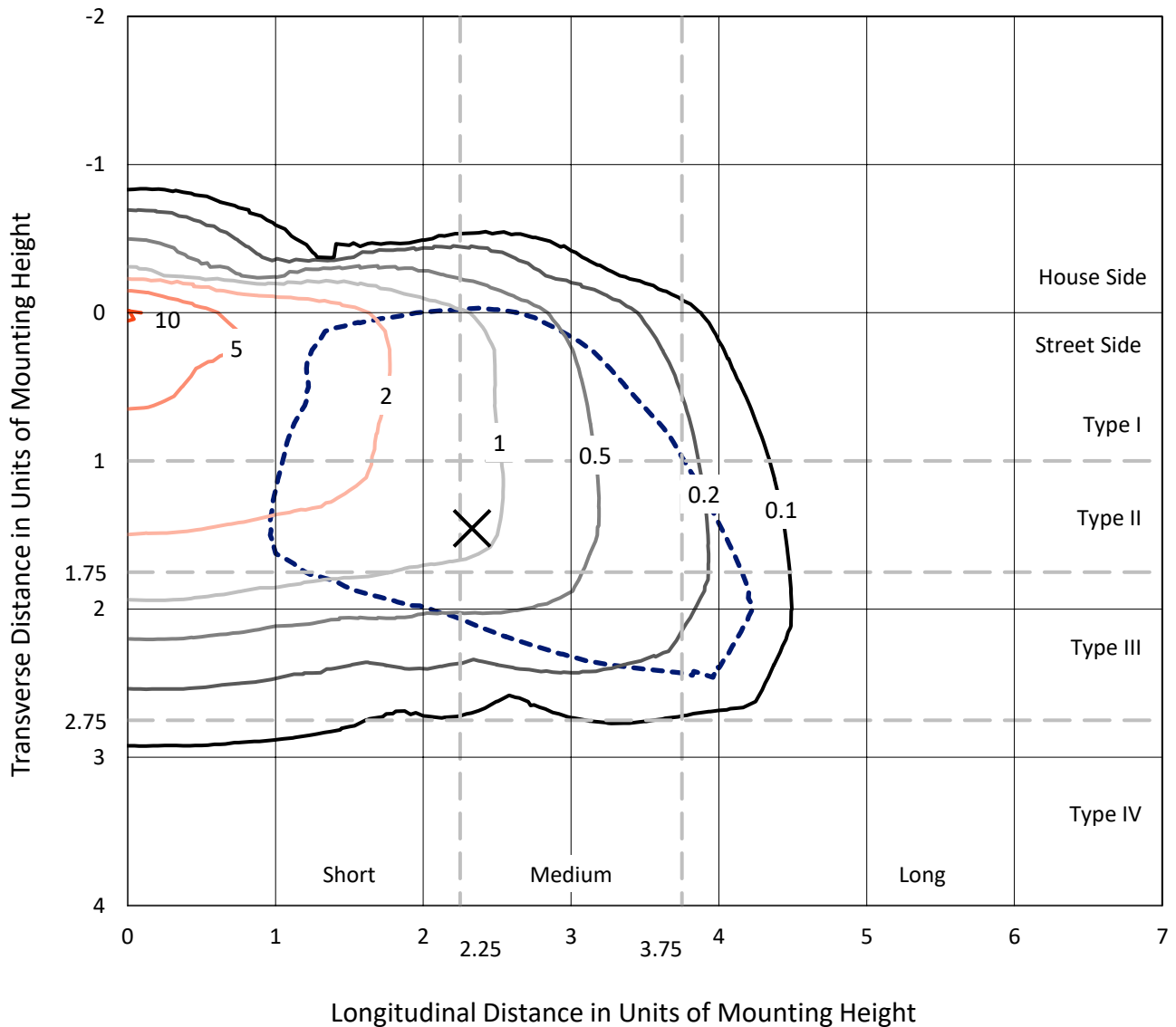
Lumens per Lamp: N/A  
Luminaire Lumens: 7594 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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: 25 FT

REPORT NUMBER: P677058  
 CATALOG NUMBER: CCW-SA-2D-835-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

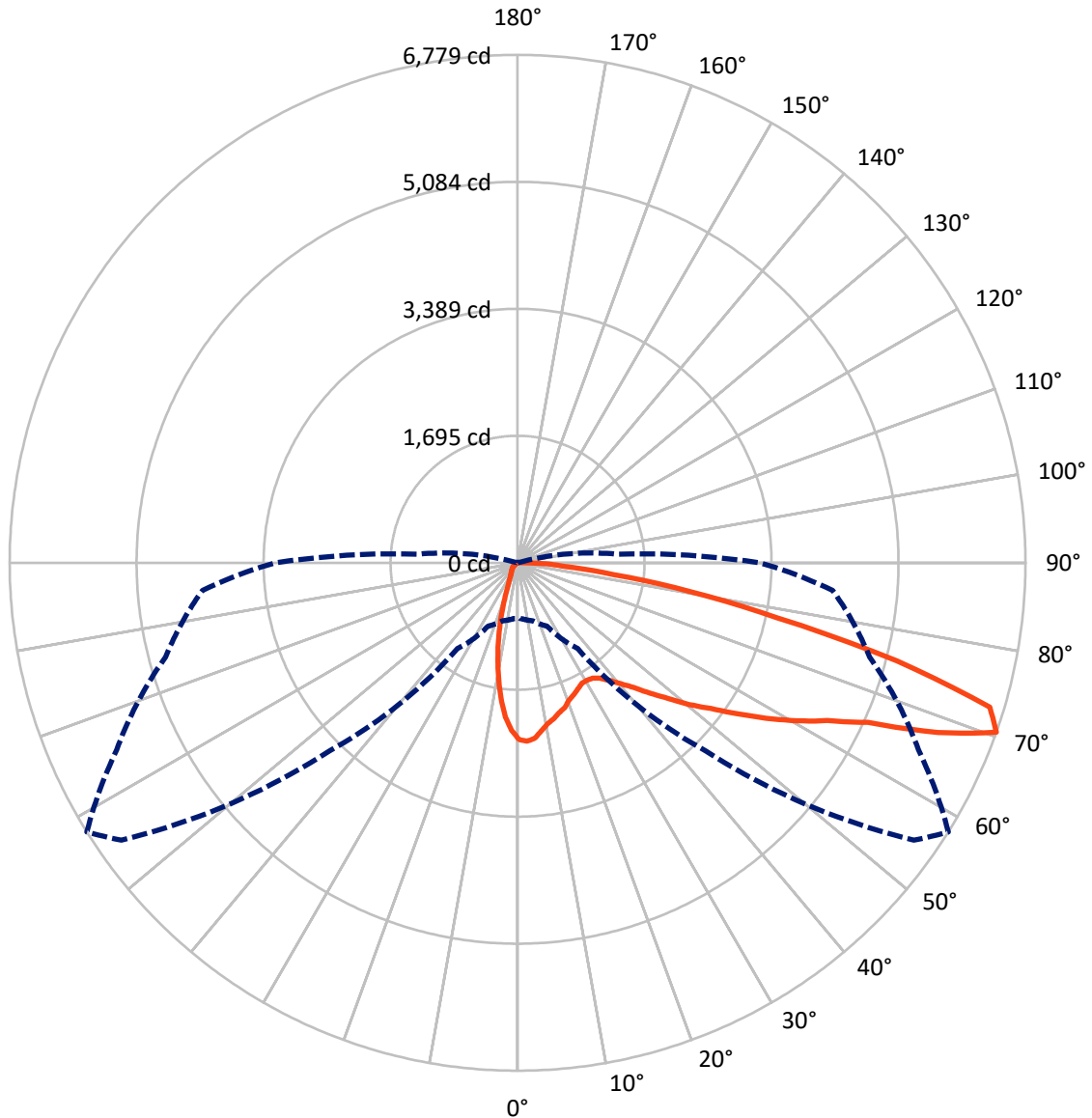
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677058  
CATALOG NUMBER: CCW-SA-2D-835-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P677058  
 CATALOG NUMBER: CCW-SA-2D-835-U-SL3-HSS

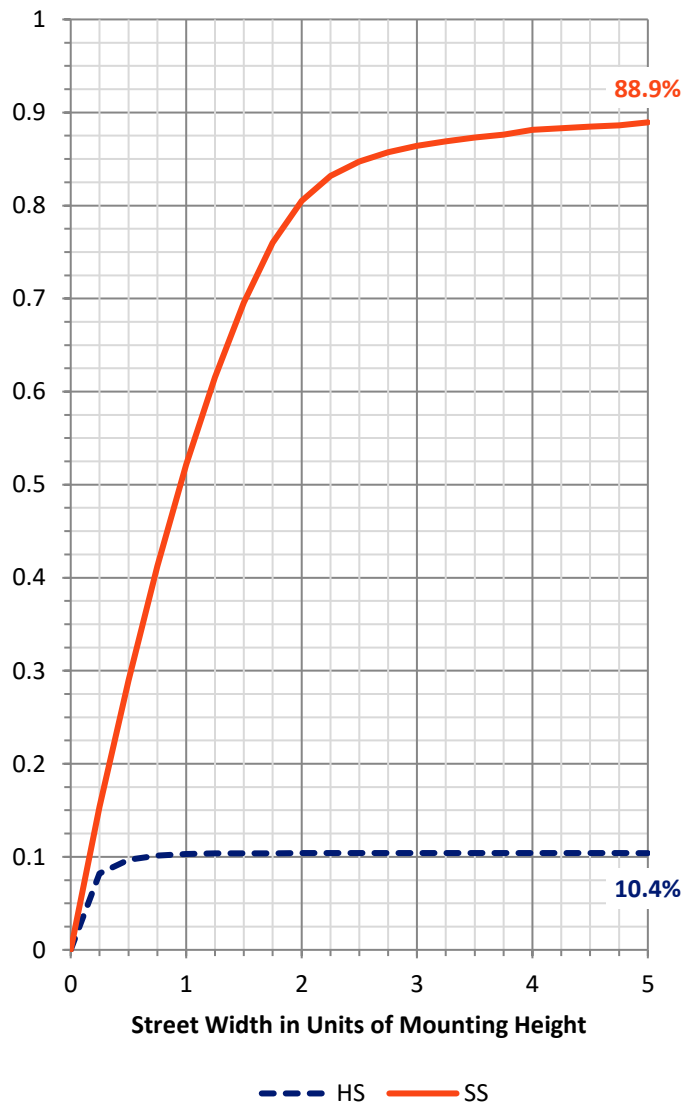
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 795.2    | 0.0    | 795.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 6798.8   | 0.0    | 6798.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 7594.0   | 0.0    | 7594.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 192.4  | 2.5       |
| 10°-20°   | 400.5  | 5.3       |
| 20°-30°   | 536.2  | 7.1       |
| 30°-40°   | 724.8  | 9.5       |
| 40°-50°   | 1040.3 | 13.7      |
| 50°-60°   | 1533.0 | 20.2      |
| 60°-70°   | 1869.9 | 24.6      |
| 70°-80°   | 1141.9 | 15.0      |
| 80°-90°   | 155.1  | 2.0       |
| 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°    | 7594.0 | 100.0     |
| 0°-180°   | 7594.0 | 100.0     |

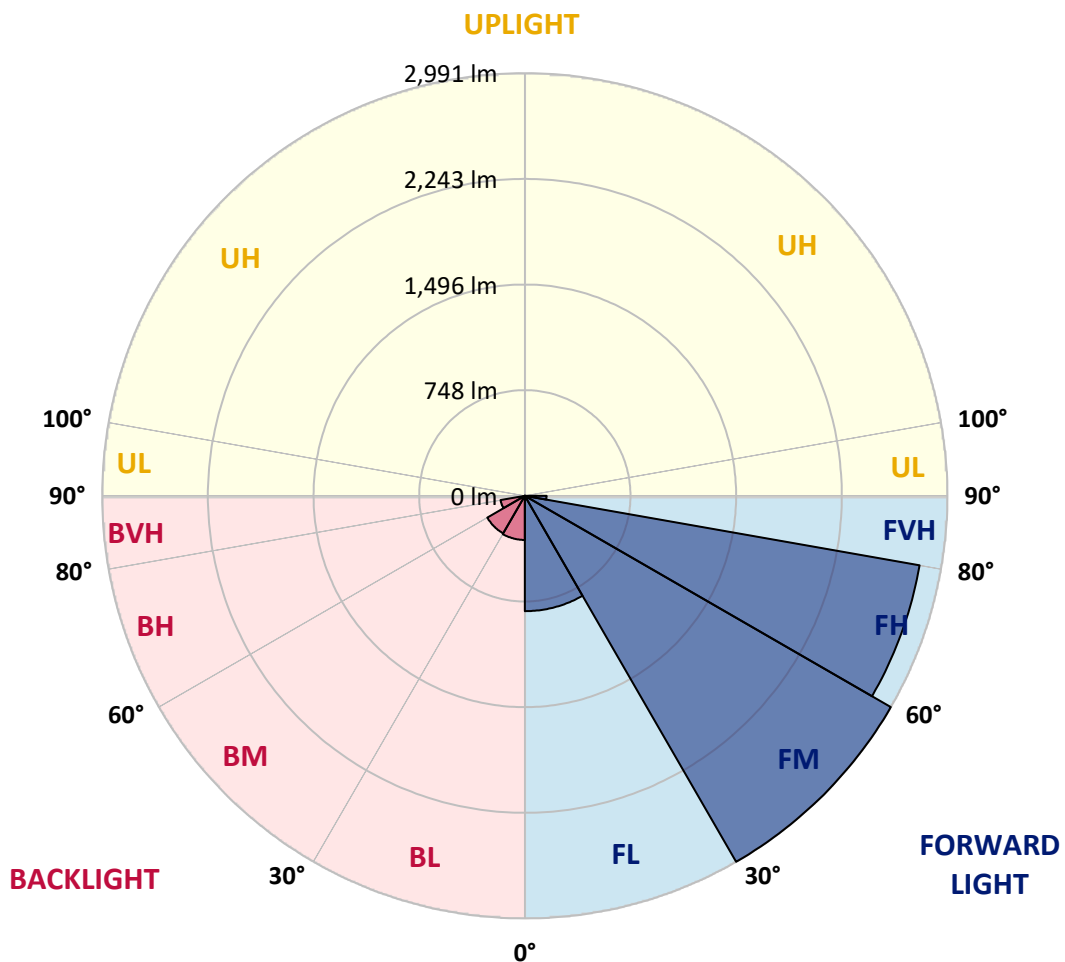


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 816.5  | 10.8      |                         |      |         |
| FM (30°-60°)   | 2991.2 | 39.4      |                         |      |         |
| FH (60°-80°)   | 2837.5 | 37.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 153.6  | 2.0       |                         |      | G2/225  |
| BL (0°-30°)    | 312.5  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 306.9  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 174.3  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.5    | 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 Medium





REPORT NUMBER: P677058

CATALOG NUMBER: CCW-SA-2D-835-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 |
| 2.5°  | 2400.1 | 2409.1 | 2387.7 | 2412.6 | 2389.5 | 2400.1 | 2387.7 | 2384.1 | 2385.9 | 2387.7 | 2373.4 |
| 5°    | 2288.0 | 2309.3 | 2318.2 | 2304.0 | 2337.8 | 2332.5 | 2353.9 | 2355.6 | 2346.7 | 2337.8 | 2339.6 |
| 7.5°  | 2140.2 | 2161.6 | 2170.5 | 2179.4 | 2213.2 | 2257.7 | 2286.2 | 2268.4 | 2282.6 | 2314.7 | 2266.6 |
| 10°   | 2033.4 | 2028.0 | 2026.2 | 2044.0 | 2108.1 | 2145.5 | 2193.6 | 2188.3 | 2223.9 | 2254.1 | 2215.0 |
| 12.5° | 1901.6 | 1890.9 | 1923.0 | 1937.2 | 1994.2 | 2060.1 | 2097.5 | 2136.6 | 2172.2 | 2204.3 | 2159.8 |
| 15°   | 1803.7 | 1812.6 | 1825.0 | 1855.3 | 1896.3 | 1983.5 | 2038.7 | 2076.1 | 2140.2 | 2156.2 | 2138.4 |
| 17.5° | 1725.3 | 1732.5 | 1750.3 | 1766.3 | 1817.9 | 1901.6 | 1988.8 | 2033.4 | 2101.0 | 2143.8 | 2088.6 |
| 20°   | 1727.1 | 1705.7 | 1705.7 | 1721.8 | 1750.3 | 1850.0 | 1942.6 | 1956.8 | 2049.4 | 2122.4 | 2085.0 |
| 22.5° | 1728.9 | 1721.8 | 1705.7 | 1704.0 | 1716.4 | 1787.6 | 1882.0 | 1914.1 | 2013.8 | 2099.2 | 2054.7 |
| 25°   | 1753.8 | 1727.1 | 1728.9 | 1704.0 | 1709.3 | 1744.9 | 1819.7 | 1867.8 | 1981.7 | 2111.7 | 2038.7 |
| 27.5° | 1775.2 | 1787.6 | 1762.7 | 1752.0 | 1721.8 | 1720.0 | 1782.3 | 1823.3 | 1965.7 | 2140.2 | 2049.4 |
| 30°   | 1823.3 | 1832.2 | 1832.2 | 1825.0 | 1796.6 | 1755.6 | 1769.8 | 1821.5 | 1933.7 | 2134.9 | 2031.6 |
| 32.5° | 1903.4 | 1887.4 | 1908.7 | 1898.0 | 1860.6 | 1796.6 | 1809.0 | 1835.7 | 1953.2 | 2202.5 | 2060.1 |
| 35°   | 1930.1 | 1942.6 | 1971.0 | 1947.9 | 1935.4 | 1898.0 | 1873.1 | 1892.7 | 1981.7 | 2270.2 | 2102.8 |
| 37.5° | 2012.0 | 1994.2 | 2013.8 | 2065.4 | 2077.9 | 2010.2 | 1962.1 | 1990.6 | 2088.6 | 2350.3 | 2142.0 |
| 40°   | 2019.1 | 2033.4 | 2069.0 | 2170.5 | 2182.9 | 2154.4 | 2115.3 | 2122.4 | 2195.4 | 2453.6 | 2239.9 |
| 42.5° | 2054.7 | 2070.8 | 2143.8 | 2229.2 | 2296.9 | 2302.2 | 2273.7 | 2273.7 | 2336.0 | 2619.2 | 2348.5 |
| 45°   | 2124.2 | 2097.5 | 2191.8 | 2336.0 | 2434.0 | 2453.6 | 2491.0 | 2482.1 | 2531.9 | 2793.6 | 2551.5 |
| 47.5° | 2150.9 | 2159.8 | 2263.0 | 2437.5 | 2549.7 | 2640.5 | 2702.8 | 2704.6 | 2729.5 | 3016.2 | 2815.0 |
| 50°   | 2238.1 | 2236.3 | 2361.0 | 2523.0 | 2688.6 | 2854.2 | 2975.3 | 2975.3 | 2973.5 | 3233.4 | 3041.1 |
| 52.5° | 2353.9 | 2350.3 | 2446.4 | 2638.7 | 2854.2 | 3062.5 | 3222.8 | 3228.1 | 3269.0 | 3500.5 | 3301.1 |
| 55°   | 2542.6 | 2526.6 | 2619.2 | 2761.6 | 3019.8 | 3272.6 | 3550.4 | 3552.1 | 3520.1 | 3691.0 | 3488.1 |
| 57.5° | 2701.1 | 2699.3 | 2775.8 | 2912.9 | 3204.9 | 3543.2 | 3865.5 | 3913.6 | 3812.1 | 3886.9 | 3637.6 |
| 60°   | 2660.1 | 2683.3 | 2841.7 | 3044.7 | 3400.8 | 3881.5 | 4205.6 | 4280.4 | 4118.4 | 4020.4 | 3749.8 |
| 62.5° | 2405.5 | 2458.9 | 2631.6 | 2955.7 | 3566.4 | 4373.0 | 4673.9 | 4640.1 | 4278.6 | 4134.4 | 3886.9 |
| 65°   | 1730.7 | 1784.1 | 1997.8 | 2483.8 | 3374.1 | 4720.2 | 5289.9 | 5136.8 | 4563.5 | 4303.5 | 4070.3 |
| 67.5° | 1018.5 | 1039.8 | 1173.4 | 1584.7 | 2523.0 | 4531.4 | 6037.8 | 6050.2 | 5124.4 | 4563.5 | 4387.2 |
| 70°   | 735.4  | 751.4  | 803.0  | 934.8  | 1397.7 | 3552.1 | 6454.4 | 6778.5 | 5902.4 | 4862.6 | 4219.8 |
| 72.5° | 564.4  | 564.4  | 651.7  | 778.1  | 890.3  | 2127.7 | 5939.8 | 6589.7 | 6071.6 | 4576.0 | 3400.8 |
| 75°   | 406.0  | 416.6  | 511.0  | 669.5  | 820.8  | 1068.3 | 4376.5 | 5229.4 | 5145.7 | 3708.8 | 2375.2 |
| 77.5° | 233.2  | 238.6  | 359.7  | 560.9  | 771.0  | 733.6  | 2704.6 | 3545.0 | 3644.7 | 2321.8 | 1029.1 |
| 80°   | 119.3  | 122.9  | 201.2  | 443.4  | 698.0  | 639.2  | 1613.2 | 2334.3 | 1979.9 | 674.8  | 238.6  |
| 82.5° | 58.8   | 58.8   | 90.8   | 283.1  | 592.9  | 566.2  | 949.0  | 1289.1 | 701.5  | 154.9  | 99.7   |
| 85°   | 19.6   | 21.4   | 41.0   | 160.2  | 429.1  | 341.9  | 580.5  | 612.5  | 235.0  | 58.8   | 55.2   |
| 87.5° | 5.3    | 7.1    | 10.7   | 58.8   | 187.0  | 224.3  | 345.4  | 391.7  | 96.1   | 23.1   | 26.7   |
| 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°    | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 | 2357.4 |
| 2.5°  | 2320.0 | 2307.6 | 2293.3 | 2257.7 | 2229.2 | 2191.8 | 2166.9 | 2147.3 | 2109.9 | 2117.0 | 2101.0 |
| 5°    | 2296.9 | 2273.7 | 2191.8 | 2113.5 | 2042.3 | 1933.7 | 1858.9 | 1810.8 | 1771.6 | 1732.5 | 1760.9 |
| 7.5°  | 2255.9 | 2200.7 | 2072.5 | 1926.5 | 1775.2 | 1632.7 | 1490.3 | 1404.8 | 1342.5 | 1285.5 | 1283.8 |
| 10°   | 2186.5 | 2097.5 | 1896.3 | 1705.7 | 1472.5 | 1285.5 | 1103.9 | 961.5  | 868.9  | 801.2  | 799.5  |
| 12.5° | 2108.1 | 2015.6 | 1762.7 | 1452.9 | 1184.0 | 920.5  | 703.3  | 552.0  | 464.7  | 411.3  | 404.2  |
| 15°   | 2058.3 | 1923.0 | 1595.4 | 1228.6 | 895.6  | 600.0  | 389.9  | 295.6  | 261.7  | 249.3  | 249.3  |
| 17.5° | 1994.2 | 1839.3 | 1429.8 | 995.3  | 621.4  | 347.2  | 252.8  | 227.9  | 226.1  | 222.6  | 219.0  |
| 20°   | 1967.5 | 1775.2 | 1282.0 | 794.1  | 393.5  | 245.7  | 217.2  | 211.9  | 211.9  | 208.3  | 204.8  |
| 22.5° | 1896.3 | 1682.6 | 1125.3 | 582.2  | 261.7  | 215.4  | 204.8  | 197.6  | 194.1  | 190.5  | 194.1  |
| 25°   | 1864.2 | 1616.7 | 977.5  | 402.4  | 213.7  | 192.3  | 187.0  | 179.8  | 174.5  | 172.7  | 172.7  |
| 27.5° | 1842.8 | 1550.8 | 833.3  | 279.5  | 188.7  | 176.3  | 165.6  | 160.2  | 153.1  | 146.0  | 146.0  |
| 30°   | 1826.8 | 1499.2 | 694.4  | 206.5  | 169.1  | 156.7  | 147.8  | 135.3  | 126.4  | 119.3  | 119.3  |
| 32.5° | 1805.5 | 1438.7 | 555.5  | 176.3  | 153.1  | 140.7  | 124.6  | 114.0  | 101.5  | 96.1   | 96.1   |
| 35°   | 1812.6 | 1397.7 | 436.2  | 156.7  | 137.1  | 121.1  | 106.8  | 92.6   | 80.1   | 74.8   | 73.0   |
| 37.5° | 1826.8 | 1367.4 | 331.2  | 140.7  | 122.9  | 105.1  | 89.0   | 73.0   | 65.9   | 58.8   | 58.8   |
| 40°   | 1887.4 | 1358.5 | 243.9  | 130.0  | 112.2  | 92.6   | 74.8   | 60.5   | 53.4   | 48.1   | 46.3   |
| 42.5° | 1988.8 | 1371.0 | 188.7  | 117.5  | 101.5  | 78.3   | 62.3   | 49.9   | 42.7   | 37.4   | 35.6   |
| 45°   | 2118.8 | 1419.1 | 154.9  | 110.4  | 89.0   | 65.9   | 49.9   | 41.0   | 32.0   | 28.5   | 28.5   |
| 47.5° | 2307.6 | 1493.9 | 135.3  | 101.5  | 78.3   | 55.2   | 42.7   | 32.0   | 24.9   | 21.4   | 21.4   |
| 50°   | 2521.2 | 1579.3 | 119.3  | 90.8   | 67.7   | 46.3   | 33.8   | 24.9   | 17.8   | 16.0   | 16.0   |
| 52.5° | 2734.9 | 1687.9 | 110.4  | 83.7   | 58.8   | 37.4   | 26.7   | 17.8   | 12.5   | 10.7   | 10.7   |
| 55°   | 2959.2 | 1784.1 | 99.7   | 78.3   | 48.1   | 30.3   | 19.6   | 10.7   | 7.1    | 5.3    | 5.3    |
| 57.5° | 3115.9 | 1821.5 | 87.2   | 67.7   | 37.4   | 23.1   | 14.2   | 7.1    | 3.6    | 1.8    | 1.8    |
| 60°   | 3228.1 | 1826.8 | 74.8   | 55.2   | 28.5   | 17.8   | 8.9    | 3.6    | 1.8    | 0.0    | 0.0    |
| 62.5° | 3322.5 | 1837.5 | 64.1   | 42.7   | 21.4   | 12.5   | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    |
| 65°   | 3509.4 | 1828.6 | 51.6   | 33.8   | 14.2   | 7.1    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3657.2 | 1739.6 | 41.0   | 23.1   | 8.9    | 3.6    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3235.2 | 1326.5 | 32.0   | 16.0   | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2540.8 | 884.9  | 21.4   | 8.9    | 3.6    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1666.6 | 439.8  | 16.0   | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 648.1  | 115.7  | 10.7   | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 156.7  | 39.2   | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 67.7   | 14.2   | 3.6    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 41.0   | 7.1    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 21.4   | 3.6    | 1.8    | 1.8    | 0.0    | 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)