

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: P674499

Luminaire Tested: **CCP-SA-2C-850-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674499  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-850-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

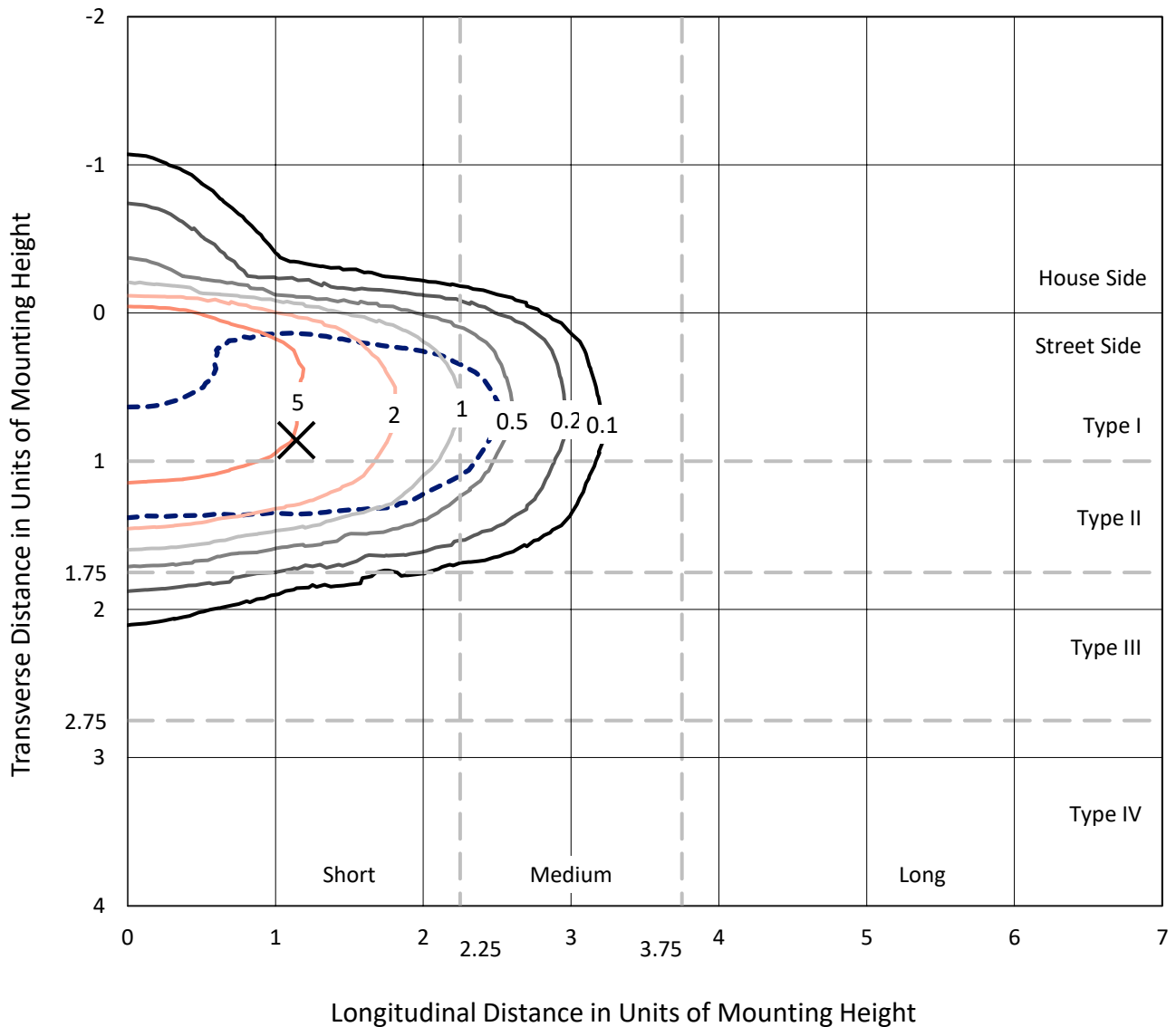
Lumens per Lamp: N/A  
Luminaire Lumens: 6542.5 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1  
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: 25 FT

REPORT NUMBER: P674499  
 CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

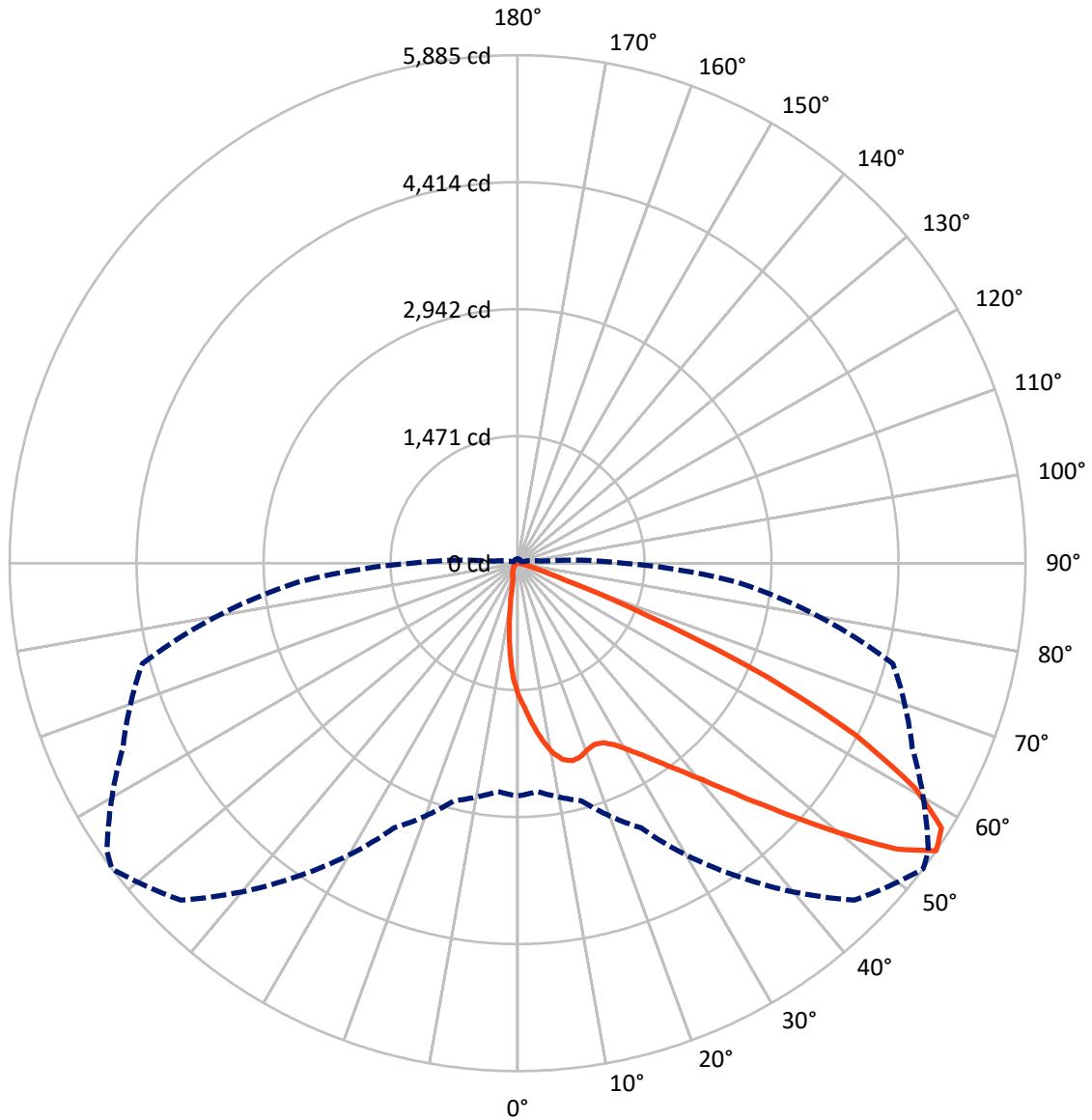
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P674499  
CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P674499

CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

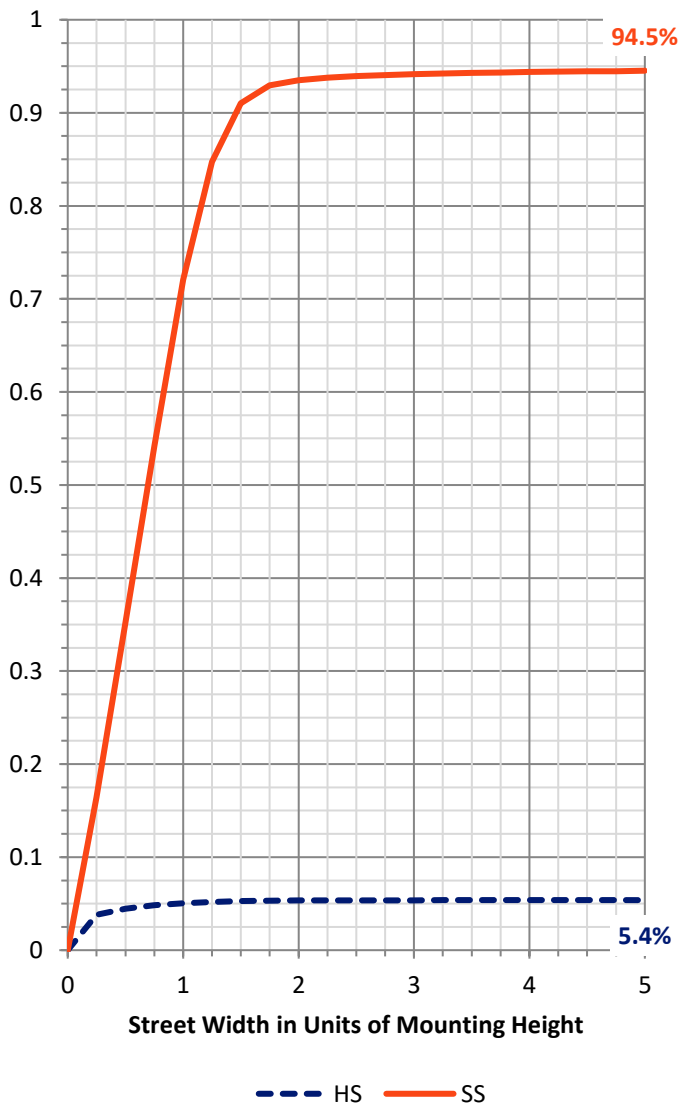
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 353.7    | 0.0    | 353.7  |
|                    | % Fixture | 5.4      | 0.0    | 5.4    |
| <b>Street Side</b> | Lumens    | 6188.9   | 0.0    | 6188.9 |
|                    | % Fixture | 94.6     | 0.0    | 94.6   |
| <b>Total</b>       | Lumens    | 6542.5   | 0.0    | 6542.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.9  | 2.1       |
| 10°-20°   | 357.7  | 5.5       |
| 20°-30°   | 598.7  | 9.2       |
| 30°-40°   | 979.4  | 15.0      |
| 40°-50°   | 1574.4 | 24.1      |
| 50°-60°   | 1777.5 | 27.2      |
| 60°-70°   | 948.2  | 14.5      |
| 70°-80°   | 155.8  | 2.4       |
| 80°-90°   | 13.9   | 0.2       |
| 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°    | 6542.5 | 100.0     |
| 0°-180°   | 6542.5 | 100.0     |



REPORT NUMBER: P674499

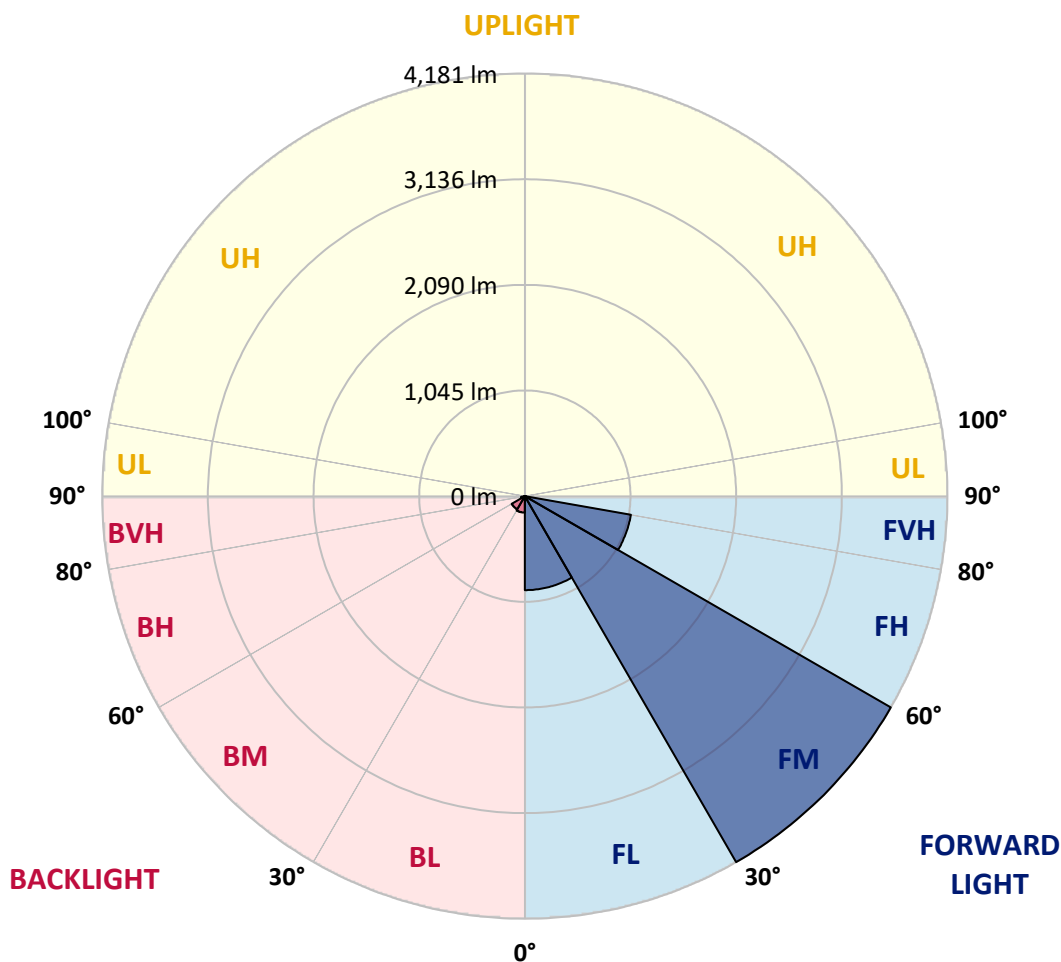
CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 930.1  | 14.2      |                         |      |         |
| FM (30°-60°)   | 4180.7 | 63.9      |                         |      |         |
| FH (60°-80°)   | 1065.3 | 16.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.8   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 163.2  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 150.7  | 2.3       | B0/220                  |      |         |
| BH (60°-80°)   | 38.7   | 0.6       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.1    | 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-G1**

Type II Short





REPORT NUMBER: P674499

CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 |
| 2.5°  | 1836.1 | 1825.2 | 1831.5 | 1814.9 | 1784.5 | 1746.6 | 1689.9 | 1692.8 | 1648.0 | 1609.1 | 1555.2 |
| 5°    | 2139.3 | 2127.8 | 2124.4 | 2082.0 | 2039.6 | 1971.3 | 1887.1 | 1873.3 | 1791.4 | 1692.2 | 1579.3 |
| 7.5°  | 2299.2 | 2289.5 | 2296.9 | 2281.5 | 2239.6 | 2177.7 | 2071.1 | 2060.8 | 1934.1 | 1783.9 | 1617.7 |
| 10°   | 2225.9 | 2222.4 | 2254.0 | 2290.6 | 2324.5 | 2317.0 | 2231.6 | 2215.5 | 2073.4 | 1884.8 | 1657.2 |
| 12.5° | 2028.7 | 2039.6 | 2079.7 | 2147.3 | 2251.7 | 2349.7 | 2335.9 | 2338.8 | 2215.5 | 1994.3 | 1700.8 |
| 15°   | 1912.9 | 1926.1 | 1949.0 | 1984.0 | 2112.4 | 2286.6 | 2375.5 | 2404.1 | 2352.0 | 2116.4 | 1752.4 |
| 17.5° | 1903.1 | 1914.0 | 1917.5 | 1930.7 | 2005.7 | 2185.2 | 2359.4 | 2413.9 | 2473.5 | 2231.6 | 1810.3 |
| 20°   | 1978.2 | 1982.8 | 1979.9 | 1970.2 | 1997.1 | 2130.1 | 2309.0 | 2386.9 | 2573.8 | 2354.3 | 1861.3 |
| 22.5° | 2119.8 | 2112.9 | 2104.3 | 2068.2 | 2066.5 | 2145.6 | 2281.5 | 2362.9 | 2633.4 | 2455.7 | 1895.1 |
| 25°   | 2295.2 | 2280.9 | 2268.9 | 2217.8 | 2193.8 | 2226.4 | 2306.1 | 2371.5 | 2687.3 | 2554.3 | 1919.2 |
| 27.5° | 2486.7 | 2491.3 | 2461.5 | 2392.7 | 2354.8 | 2348.0 | 2382.4 | 2431.1 | 2739.5 | 2642.6 | 1932.4 |
| 30°   | 2691.3 | 2693.6 | 2654.6 | 2583.6 | 2549.2 | 2505.0 | 2502.7 | 2532.0 | 2795.7 | 2744.1 | 1945.0 |
| 32.5° | 2924.6 | 2930.9 | 2867.3 | 2793.4 | 2733.2 | 2675.9 | 2647.8 | 2672.4 | 2896.5 | 2876.5 | 1970.8 |
| 35°   | 3261.7 | 3234.2 | 3148.2 | 3036.4 | 2951.0 | 2875.9 | 2832.9 | 2849.0 | 3030.7 | 3035.3 | 2022.4 |
| 37.5° | 3609.1 | 3606.2 | 3511.1 | 3350.0 | 3210.1 | 3116.7 | 3043.3 | 3069.7 | 3219.3 | 3247.9 | 2104.9 |
| 40°   | 3933.0 | 3940.4 | 3857.9 | 3717.4 | 3537.4 | 3376.9 | 3298.4 | 3316.2 | 3469.8 | 3505.9 | 2205.2 |
| 42.5° | 4144.5 | 4140.5 | 4146.8 | 4106.6 | 3926.1 | 3736.9 | 3618.8 | 3628.6 | 3761.0 | 3779.9 | 2330.8 |
| 45°   | 4241.9 | 4226.5 | 4280.3 | 4407.6 | 4335.9 | 4137.0 | 4002.3 | 3990.3 | 4063.1 | 4057.9 | 2444.8 |
| 47.5° | 4157.7 | 4129.0 | 4252.8 | 4559.5 | 4698.2 | 4638.0 | 4445.4 | 4423.6 | 4361.7 | 4320.5 | 2563.5 |
| 50°   | 3738.6 | 3726.0 | 3990.9 | 4487.3 | 4925.8 | 5101.2 | 4959.6 | 4878.8 | 4628.3 | 4514.2 | 2626.0 |
| 52.5° | 3340.2 | 3305.3 | 3484.1 | 4118.7 | 4824.3 | 5473.8 | 5503.0 | 5359.2 | 4849.6 | 4569.8 | 2604.8 |
| 55°   | 2698.2 | 2655.2 | 2850.1 | 3383.8 | 4422.5 | 5521.4 | 5884.8 | 5809.7 | 5043.3 | 4501.0 | 2561.8 |
| 57.5° | 1638.9 | 1596.5 | 1883.1 | 2423.6 | 3536.9 | 5125.9 | 5790.8 | 5867.0 | 5192.3 | 4425.4 | 2533.7 |
| 60°   | 689.0  | 662.1  | 774.4  | 1156.8 | 2258.5 | 4212.7 | 5292.1 | 5482.4 | 5220.4 | 4321.6 | 2545.2 |
| 62.5° | 358.3  | 346.2  | 352.5  | 463.2  | 913.2  | 2773.9 | 4404.7 | 4736.1 | 4937.3 | 4275.7 | 2556.6 |
| 65°   | 268.8  | 259.7  | 239.6  | 254.5  | 354.8  | 1199.2 | 3165.4 | 3609.1 | 4323.3 | 4159.4 | 2479.2 |
| 67.5° | 220.7  | 212.1  | 197.8  | 193.2  | 209.2  | 416.2  | 1615.9 | 2192.6 | 3387.8 | 3663.5 | 2201.8 |
| 70°   | 176.0  | 173.1  | 168.5  | 159.9  | 157.1  | 201.8  | 579.5  | 893.7  | 2240.2 | 2583.6 | 1595.9 |
| 72.5° | 146.7  | 147.3  | 142.2  | 134.7  | 124.4  | 130.1  | 231.0  | 305.5  | 1084.0 | 1238.8 | 668.4  |
| 75°   | 122.7  | 122.7  | 124.4  | 114.1  | 103.8  | 89.4   | 128.4  | 149.0  | 348.0  | 286.0  | 142.7  |
| 77.5° | 96.3   | 97.4   | 104.9  | 96.3   | 83.1   | 56.2   | 69.9   | 79.7   | 103.2  | 82.5   | 52.2   |
| 80°   | 76.8   | 75.7   | 72.8   | 86.6   | 74.5   | 39.6   | 33.2   | 36.7   | 48.2   | 39.6   | 25.8   |
| 82.5° | 53.9   | 53.3   | 51.0   | 58.5   | 57.9   | 29.2   | 21.8   | 22.4   | 29.2   | 25.2   | 16.1   |
| 85°   | 13.2   | 15.5   | 32.7   | 27.5   | 24.1   | 17.2   | 13.2   | 14.3   | 18.9   | 16.6   | 8.6    |
| 87.5° | 5.7    | 5.7    | 14.9   | 17.8   | 11.5   | 7.5    | 5.7    | 6.3    | 9.7    | 9.7    | 5.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P674499  
 CATALOG NUMBER: CCP-SA-2C-850-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 | 1531.1 |
| 2.5°  | 1536.3 | 1499.0 | 1452.0 | 1402.1 | 1351.1 | 1289.8 | 1250.8 | 1218.7 | 1193.5 | 1174.0 | 1167.1 |
| 5°    | 1542.0 | 1470.3 | 1363.7 | 1231.3 | 1096.6 | 970.5  | 873.0  | 800.8  | 741.2  | 708.5  | 694.2  |
| 7.5°  | 1541.4 | 1446.3 | 1253.7 | 1031.8 | 812.8  | 631.1  | 502.2  | 422.5  | 369.2  | 347.4  | 334.2  |
| 10°   | 1540.9 | 1414.7 | 1128.1 | 810.6  | 543.4  | 365.7  | 269.4  | 224.7  | 205.2  | 197.8  | 196.6  |
| 12.5° | 1557.5 | 1378.6 | 987.7  | 596.7  | 341.1  | 227.6  | 187.4  | 177.1  | 172.5  | 170.3  | 169.7  |
| 15°   | 1566.6 | 1345.4 | 839.8  | 421.3  | 229.9  | 180.0  | 167.4  | 162.8  | 161.1  | 159.9  | 159.4  |
| 17.5° | 1576.4 | 1293.8 | 699.3  | 305.0  | 184.0  | 163.4  | 155.9  | 153.1  | 151.9  | 151.9  | 151.9  |
| 20°   | 1578.1 | 1238.2 | 560.0  | 224.7  | 163.4  | 152.5  | 145.0  | 142.2  | 140.4  | 139.3  | 139.3  |
| 22.5° | 1565.5 | 1172.3 | 440.2  | 182.3  | 151.3  | 142.2  | 134.1  | 129.6  | 126.7  | 126.1  | 126.1  |
| 25°   | 1534.0 | 1078.8 | 337.6  | 159.9  | 141.6  | 131.8  | 122.1  | 116.9  | 114.6  | 114.6  | 114.6  |
| 27.5° | 1488.7 | 968.8  | 260.8  | 142.2  | 129.0  | 119.2  | 110.6  | 106.0  | 105.5  | 104.9  | 105.5  |
| 30°   | 1437.1 | 862.7  | 199.5  | 126.1  | 114.1  | 106.0  | 99.2   | 96.9   | 98.0   | 98.0   | 98.6   |
| 32.5° | 1385.5 | 756.7  | 155.9  | 113.5  | 100.9  | 94.0   | 90.6   | 90.6   | 92.3   | 92.3   | 92.3   |
| 35°   | 1341.4 | 652.9  | 130.7  | 103.2  | 91.7   | 86.0   | 84.3   | 86.0   | 87.1   | 87.7   | 87.7   |
| 37.5° | 1316.7 | 563.5  | 115.2  | 94.0   | 84.3   | 79.7   | 79.1   | 80.8   | 83.1   | 84.8   | 85.4   |
| 40°   | 1307.5 | 494.7  | 106.0  | 87.1   | 77.4   | 74.5   | 73.9   | 76.2   | 80.3   | 83.1   | 83.7   |
| 42.5° | 1308.1 | 433.9  | 98.0   | 80.3   | 72.8   | 68.8   | 68.8   | 72.2   | 76.2   | 79.1   | 79.1   |
| 45°   | 1312.1 | 381.8  | 90.0   | 73.4   | 68.8   | 61.9   | 62.5   | 67.1   | 69.9   | 72.8   | 72.8   |
| 47.5° | 1315.6 | 339.9  | 81.4   | 65.9   | 59.6   | 56.2   | 57.3   | 60.8   | 64.8   | 69.4   | 69.4   |
| 50°   | 1295.5 | 310.1  | 72.8   | 57.9   | 52.2   | 51.0   | 53.3   | 56.2   | 61.9   | 66.5   | 67.1   |
| 52.5° | 1247.4 | 283.2  | 65.3   | 51.6   | 47.0   | 47.6   | 50.4   | 52.2   | 56.8   | 57.3   | 57.9   |
| 55°   | 1226.1 | 269.4  | 59.6   | 47.0   | 43.0   | 44.7   | 46.4   | 47.0   | 45.9   | 43.0   | 43.0   |
| 57.5° | 1221.6 | 260.2  | 53.9   | 42.4   | 39.6   | 41.8   | 41.3   | 37.8   | 34.4   | 31.0   | 30.4   |
| 60°   | 1226.1 | 247.6  | 49.3   | 36.7   | 36.1   | 36.7   | 35.0   | 28.7   | 24.1   | 21.8   | 20.6   |
| 62.5° | 1199.8 | 229.3  | 45.3   | 31.5   | 31.5   | 31.0   | 26.4   | 19.5   | 15.5   | 13.8   | 13.2   |
| 65°   | 1112.6 | 193.2  | 41.3   | 26.4   | 25.8   | 24.6   | 17.8   | 13.2   | 10.3   | 8.6    | 8.0    |
| 67.5° | 941.2  | 149.6  | 37.3   | 21.8   | 20.6   | 17.2   | 11.5   | 8.6    | 5.7    | 5.2    | 4.6    |
| 70°   | 642.0  | 92.9   | 31.5   | 17.2   | 15.5   | 10.9   | 6.9    | 5.2    | 3.4    | 2.9    | 2.3    |
| 72.5° | 232.7  | 53.9   | 26.4   | 13.2   | 10.3   | 6.9    | 4.0    | 2.3    | 1.7    | 1.7    | 1.1    |
| 75°   | 55.0   | 37.8   | 20.1   | 9.7    | 6.9    | 4.0    | 2.3    | 1.7    | 1.1    | 1.1    | 0.6    |
| 77.5° | 25.2   | 29.2   | 13.2   | 5.7    | 4.6    | 2.9    | 1.7    | 1.1    | 0.6    | 0.6    | 0.0    |
| 80°   | 14.3   | 20.6   | 6.3    | 4.0    | 3.4    | 2.3    | 1.1    | 0.6    | 0.6    | 0.0    | 0.0    |
| 82.5° | 7.5    | 11.5   | 4.6    | 3.4    | 2.9    | 1.7    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 5.2    | 5.7    | 3.4    | 2.9    | 2.3    | 1.7    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.0    | 4.0    | 3.4    | 2.9    | 2.3    | 1.7    | 0.6    | 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)