

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: P675475

Luminaire Tested: **CCW-SA-2E-835-U-SL2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675475
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL2 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

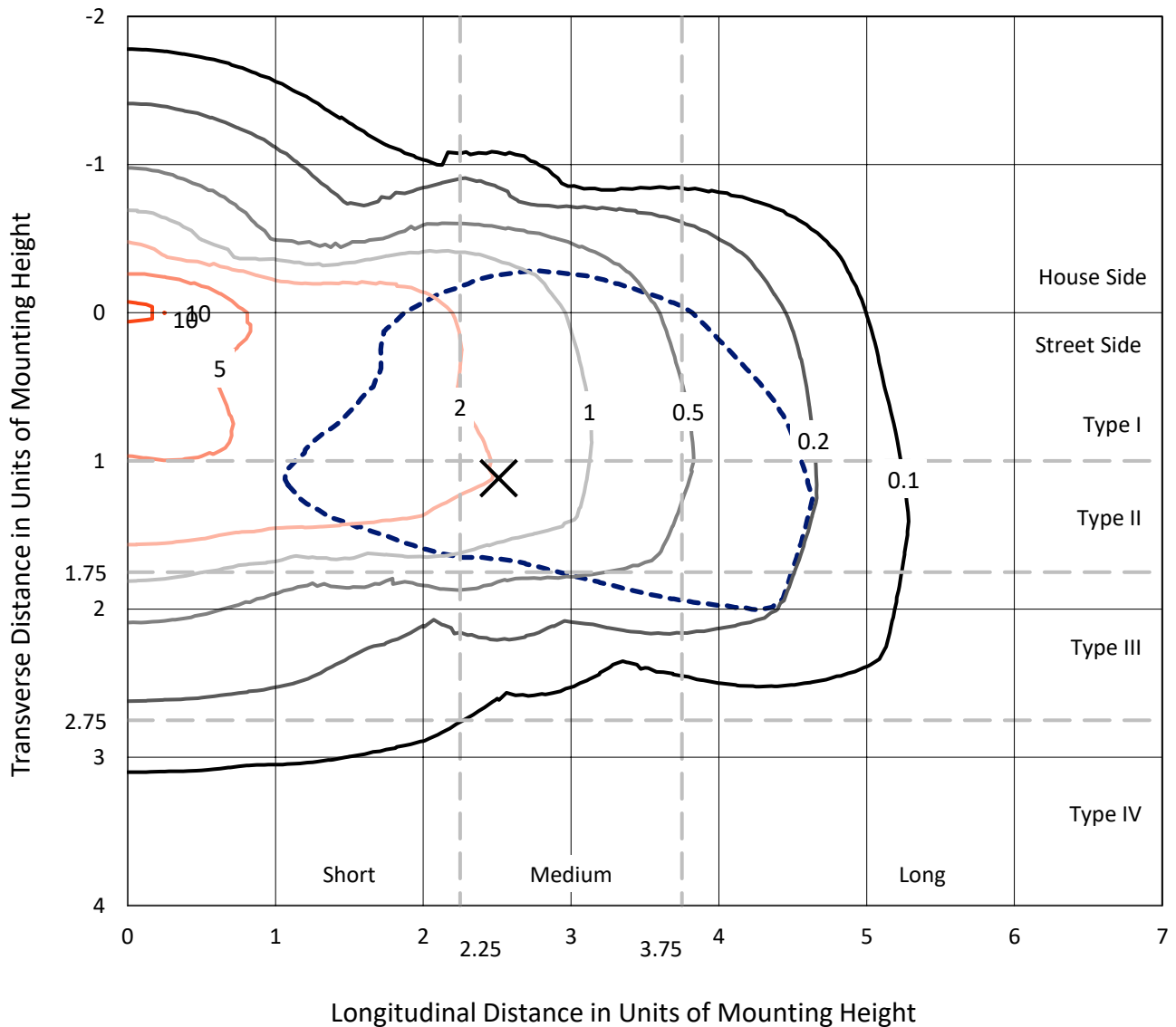
Lumens per Lamp: N/A
Luminaire Lumens: 11150.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
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: P675475
 CATALOG NUMBER: CCW-SA-2E-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

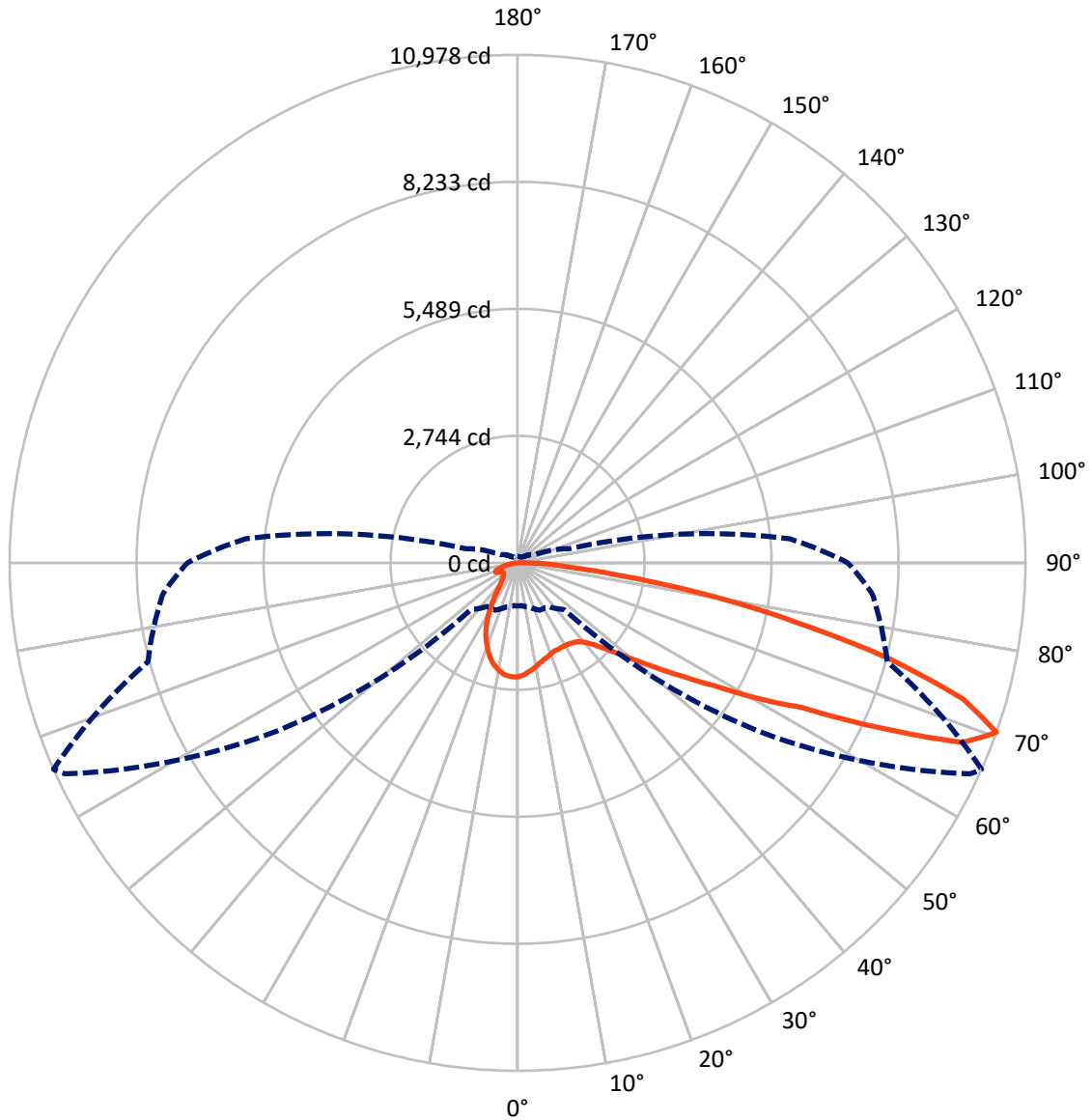
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P675475
CATALOG NUMBER: CCW-SA-2E-835-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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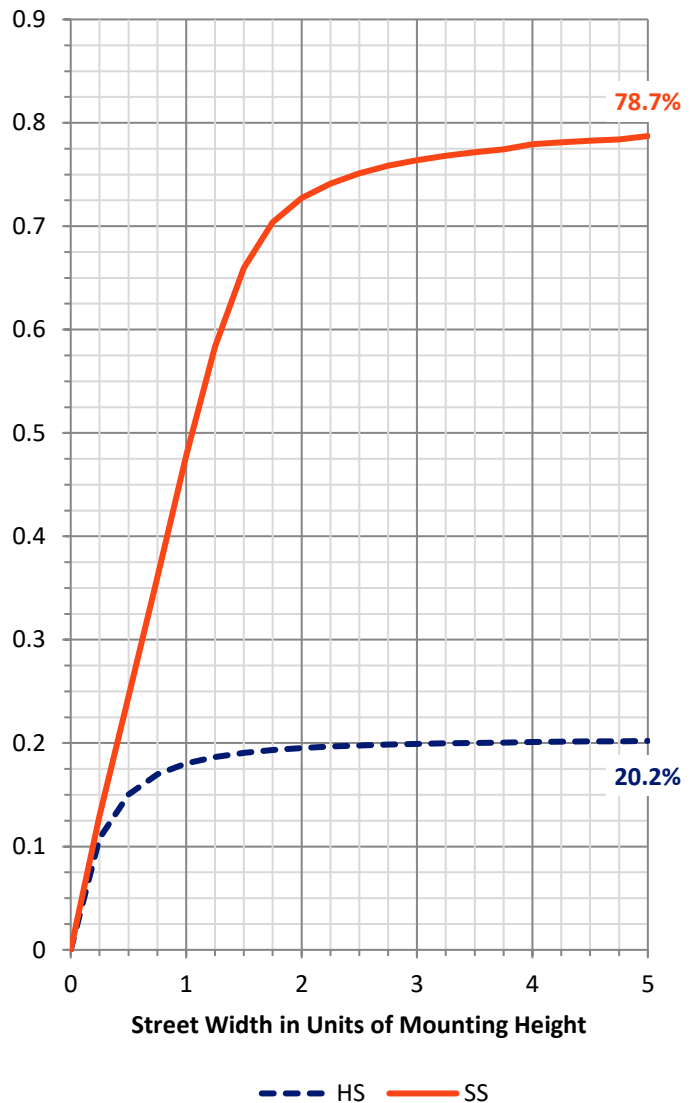
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2282.4 | 0.0 | 2282.4 |
| | % Fixture | 20.5 | 0.0 | 20.5 |
| Street Side | Lumens | 8868.1 | 0.0 | 8868.1 |
| | % Fixture | 79.5 | 0.0 | 79.5 |
| Total | Lumens | 11150.4 | 0.0 | 11150.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 217.8 | 2.0 |
| 10°-20° | 536.2 | 4.8 |
| 20°-30° | 736.4 | 6.6 |
| 30°-40° | 987.4 | 8.9 |
| 40°-50° | 1432.6 | 12.8 |
| 50°-60° | 2177.6 | 19.5 |
| 60°-70° | 2689.4 | 24.1 |
| 70°-80° | 2000.0 | 17.9 |
| 80°-90° | 373.0 | 3.3 |
| 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° | 11150.4 | 100.0 |
| 0°-180° | 11150.4 | 100.0 |

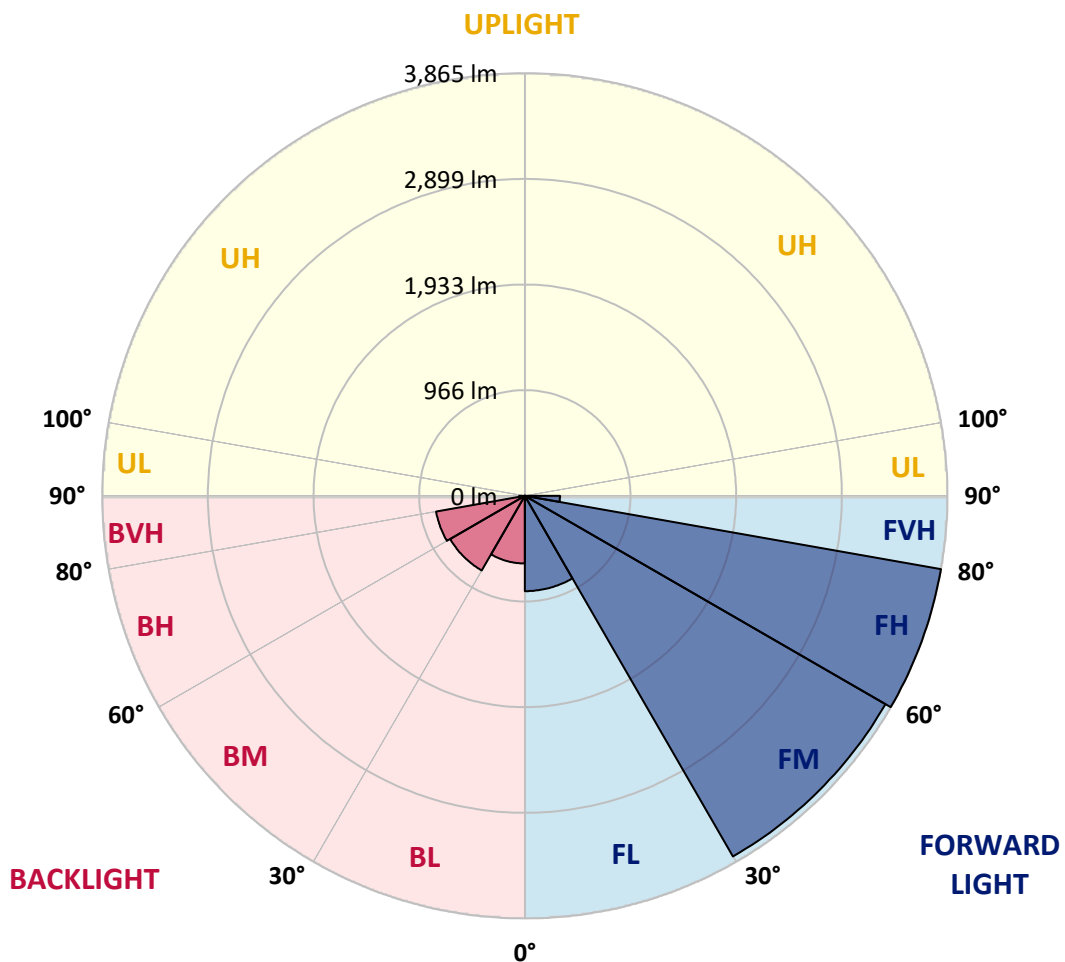


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 871.9 | 7.8 | | | |
| FM (30°-60°) | 3809.1 | 34.2 | | | |
| FH (60°-80°) | 3865.5 | 34.7 | | | G2/5000 |
| FVH (80°-90°) | 321.6 | 2.9 | | | G3/500 |
| BL (0°-30°) | 618.6 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 788.4 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 823.9 | 7.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 51.5 | 0.5 | | | 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 III Medium





REPORT NUMBER: P675475

CATALOG NUMBER: CCW-SA-2E-835-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 |
| 2.5° | 2343.2 | 2355.6 | 2359.8 | 2368.1 | 2388.8 | 2405.4 | 2430.3 | 2442.7 | 2430.3 | 2446.9 | 2446.9 |
| 5° | 2181.5 | 2164.9 | 2206.3 | 2222.9 | 2247.8 | 2281.0 | 2339.1 | 2384.7 | 2372.2 | 2422.0 | 2463.5 |
| 7.5° | 2044.6 | 2044.6 | 2057.0 | 2094.4 | 2123.4 | 2173.2 | 2235.4 | 2305.9 | 2326.6 | 2393.0 | 2455.2 |
| 10° | 1920.2 | 1936.8 | 1936.8 | 1994.8 | 2011.4 | 2069.5 | 2173.2 | 2260.3 | 2264.4 | 2376.4 | 2463.5 |
| 12.5° | 1853.8 | 1845.5 | 1887.0 | 1903.6 | 1953.4 | 2011.4 | 2094.4 | 2202.2 | 2206.3 | 2326.6 | 2446.9 |
| 15° | 1799.9 | 1808.2 | 1828.9 | 1870.4 | 1916.0 | 1961.7 | 2040.5 | 2140.0 | 2160.7 | 2301.7 | 2438.6 |
| 17.5° | 1804.1 | 1808.2 | 1808.2 | 1837.2 | 1874.6 | 1928.5 | 2003.1 | 2119.3 | 2131.7 | 2268.6 | 2426.2 |
| 20° | 1828.9 | 1812.4 | 1824.8 | 1837.2 | 1862.1 | 1911.9 | 1974.1 | 2073.6 | 2086.1 | 2264.4 | 2455.2 |
| 22.5° | 1882.9 | 1870.4 | 1866.3 | 1862.1 | 1858.0 | 1887.0 | 1965.8 | 2048.7 | 2061.2 | 2243.7 | 2467.6 |
| 25° | 1970.0 | 1965.8 | 1936.8 | 1907.7 | 1887.0 | 1887.0 | 1949.2 | 2069.5 | 2065.3 | 2243.7 | 2475.9 |
| 27.5° | 2073.6 | 2073.6 | 2069.5 | 2015.6 | 1953.4 | 1920.2 | 1961.7 | 2061.2 | 2057.0 | 2243.7 | 2496.7 |
| 30° | 2214.6 | 2214.6 | 2202.2 | 2152.4 | 2040.5 | 1945.1 | 1970.0 | 2052.9 | 2065.3 | 2227.1 | 2480.1 |
| 32.5° | 2368.1 | 2363.9 | 2376.4 | 2330.8 | 2214.6 | 2061.2 | 2019.7 | 2069.5 | 2081.9 | 2243.7 | 2484.2 |
| 35° | 2480.1 | 2504.9 | 2546.4 | 2504.9 | 2388.8 | 2181.5 | 2090.2 | 2102.7 | 2111.0 | 2247.8 | 2500.8 |
| 37.5° | 2608.6 | 2637.7 | 2695.7 | 2728.9 | 2604.5 | 2363.9 | 2202.2 | 2156.6 | 2156.6 | 2301.7 | 2504.9 |
| 40° | 2795.3 | 2766.2 | 2865.8 | 2923.8 | 2874.1 | 2587.9 | 2376.4 | 2256.1 | 2260.3 | 2372.2 | 2558.9 |
| 42.5° | 2932.1 | 2961.1 | 3064.8 | 3168.5 | 3106.3 | 2861.6 | 2567.2 | 2417.9 | 2417.9 | 2475.9 | 2641.8 |
| 45° | 3085.6 | 3118.7 | 3263.9 | 3388.3 | 3433.9 | 3189.2 | 2828.4 | 2650.1 | 2641.8 | 2679.1 | 2791.1 |
| 47.5° | 3255.6 | 3301.2 | 3467.1 | 3612.3 | 3732.5 | 3529.3 | 3164.4 | 2932.1 | 2928.0 | 2957.0 | 3039.9 |
| 50° | 3450.5 | 3467.1 | 3604.0 | 3869.4 | 4109.9 | 3981.4 | 3574.9 | 3330.3 | 3309.5 | 3322.0 | 3433.9 |
| 52.5° | 3508.6 | 3496.1 | 3653.7 | 3939.9 | 4379.5 | 4533.0 | 4134.8 | 3782.3 | 3774.0 | 3745.0 | 3890.1 |
| 55° | 3297.1 | 3338.5 | 3492.0 | 3857.0 | 4599.3 | 5184.1 | 4748.6 | 4400.2 | 4325.6 | 4246.8 | 4421.0 |
| 57.5° | 2874.1 | 2878.2 | 3052.4 | 3483.7 | 4429.3 | 5723.2 | 5789.6 | 5005.8 | 5009.9 | 4798.4 | 4997.5 |
| 60° | 2235.4 | 2222.9 | 2359.8 | 2749.6 | 3944.1 | 5889.1 | 6925.9 | 5972.1 | 5930.6 | 5350.0 | 5532.5 |
| 62.5° | 1613.3 | 1588.4 | 1617.4 | 1845.5 | 2948.7 | 5636.1 | 8041.5 | 7054.5 | 6880.3 | 5914.0 | 6055.0 |
| 65° | 1327.1 | 1339.6 | 1352.0 | 1364.5 | 1654.8 | 4649.1 | 8385.8 | 8821.2 | 8589.0 | 6573.4 | 6631.5 |
| 67.5° | 1099.0 | 1107.3 | 1161.2 | 1235.9 | 1227.6 | 2745.5 | 7987.6 | 10455.3 | 10368.2 | 7390.4 | 7129.2 |
| 70° | 933.1 | 929.0 | 991.2 | 1128.1 | 1148.8 | 1426.7 | 6324.6 | 10791.2 | 10977.8 | 8269.6 | 7693.2 |
| 72.5° | 746.5 | 754.8 | 808.7 | 991.2 | 1128.1 | 1202.7 | 3641.3 | 10069.6 | 10065.4 | 8945.7 | 7390.4 |
| 75° | 535.0 | 535.0 | 609.6 | 821.2 | 1090.7 | 1190.3 | 2015.6 | 8174.3 | 8327.7 | 8406.5 | 6411.7 |
| 77.5° | 352.5 | 369.1 | 427.2 | 613.8 | 1024.4 | 1165.4 | 1277.4 | 5943.0 | 6133.8 | 6287.3 | 4906.2 |
| 80° | 240.5 | 248.8 | 286.2 | 427.2 | 866.8 | 1173.7 | 1045.1 | 3998.0 | 4072.6 | 3471.3 | 1990.7 |
| 82.5° | 145.2 | 149.3 | 190.8 | 298.6 | 622.1 | 1115.6 | 982.9 | 2206.3 | 2160.7 | 1049.3 | 572.3 |
| 85° | 78.8 | 82.9 | 120.3 | 199.1 | 410.6 | 974.6 | 966.3 | 1082.4 | 1007.8 | 385.7 | 240.5 |
| 87.5° | 29.0 | 29.0 | 53.9 | 99.5 | 236.4 | 667.7 | 841.9 | 642.8 | 601.4 | 194.9 | 112.0 |
| 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° | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 | 2463.5 |
| 2.5° | 2467.6 | 2467.6 | 2467.6 | 2467.6 | 2463.5 | 2446.9 | 2459.3 | 2455.2 | 2430.3 | 2434.4 | 2417.9 |
| 5° | 2459.3 | 2480.1 | 2467.6 | 2451.0 | 2430.3 | 2380.5 | 2363.9 | 2351.5 | 2318.3 | 2305.9 | 2318.3 |
| 7.5° | 2480.1 | 2463.5 | 2455.2 | 2426.2 | 2343.2 | 2297.6 | 2239.5 | 2169.0 | 2119.3 | 2106.8 | 2119.3 |
| 10° | 2475.9 | 2475.9 | 2438.6 | 2355.6 | 2276.8 | 2144.1 | 2069.5 | 1945.1 | 1874.6 | 1853.8 | 1858.0 |
| 12.5° | 2459.3 | 2471.8 | 2413.7 | 2281.0 | 2131.7 | 1970.0 | 1833.1 | 1700.4 | 1576.0 | 1526.2 | 1517.9 |
| 15° | 2475.9 | 2463.5 | 2359.8 | 2189.8 | 1982.4 | 1758.4 | 1559.4 | 1364.5 | 1248.3 | 1173.7 | 1157.1 |
| 17.5° | 2451.0 | 2438.6 | 2289.3 | 2065.3 | 1787.5 | 1501.3 | 1252.5 | 1041.0 | 924.8 | 895.8 | 895.8 |
| 20° | 2480.1 | 2401.3 | 2206.3 | 1916.0 | 1584.3 | 1219.3 | 937.3 | 779.7 | 750.7 | 750.7 | 758.9 |
| 22.5° | 2475.9 | 2393.0 | 2135.8 | 1770.9 | 1339.6 | 920.7 | 696.7 | 651.1 | 655.3 | 688.4 | 684.3 |
| 25° | 2451.0 | 2376.4 | 2036.3 | 1609.1 | 1082.4 | 692.6 | 576.5 | 564.0 | 593.1 | 630.4 | 626.2 |
| 27.5° | 2446.9 | 2330.8 | 1945.1 | 1418.4 | 825.3 | 547.4 | 501.8 | 501.8 | 530.9 | 564.0 | 559.9 |
| 30° | 2422.0 | 2293.4 | 1833.1 | 1202.7 | 622.1 | 476.9 | 460.3 | 460.3 | 472.8 | 489.4 | 489.4 |
| 32.5° | 2417.9 | 2243.7 | 1708.7 | 978.8 | 497.7 | 431.3 | 423.0 | 427.2 | 427.2 | 435.5 | 431.3 |
| 35° | 2384.7 | 2177.3 | 1580.1 | 758.9 | 431.3 | 406.4 | 398.1 | 394.0 | 394.0 | 389.8 | 389.8 |
| 37.5° | 2372.2 | 2135.8 | 1447.4 | 588.9 | 402.3 | 385.7 | 377.4 | 365.0 | 360.8 | 360.8 | 356.7 |
| 40° | 2384.7 | 2094.4 | 1318.8 | 476.9 | 377.4 | 369.1 | 356.7 | 340.1 | 335.9 | 335.9 | 335.9 |
| 42.5° | 2430.3 | 2090.2 | 1186.1 | 414.7 | 365.0 | 352.5 | 335.9 | 319.3 | 315.2 | 319.3 | 315.2 |
| 45° | 2534.0 | 2123.4 | 1057.6 | 385.7 | 348.4 | 335.9 | 315.2 | 302.8 | 298.6 | 302.8 | 302.8 |
| 47.5° | 2704.0 | 2214.6 | 941.4 | 369.1 | 335.9 | 319.3 | 298.6 | 286.2 | 286.2 | 286.2 | 286.2 |
| 50° | 2986.0 | 2388.8 | 829.5 | 356.7 | 327.6 | 306.9 | 286.2 | 269.6 | 265.4 | 265.4 | 269.6 |
| 52.5° | 3409.1 | 2687.4 | 738.2 | 348.4 | 315.2 | 290.3 | 269.6 | 257.1 | 248.8 | 244.7 | 248.8 |
| 55° | 3919.2 | 3122.9 | 709.2 | 340.1 | 298.6 | 277.9 | 257.1 | 240.5 | 232.2 | 232.2 | 228.1 |
| 57.5° | 4466.6 | 3604.0 | 758.9 | 331.8 | 286.2 | 261.3 | 240.5 | 224.0 | 215.7 | 211.5 | 211.5 |
| 60° | 5059.7 | 4172.1 | 941.4 | 327.6 | 273.7 | 244.7 | 224.0 | 211.5 | 199.1 | 194.9 | 194.9 |
| 62.5° | 5598.8 | 4686.4 | 1269.1 | 323.5 | 265.4 | 228.1 | 207.4 | 190.8 | 182.5 | 178.3 | 178.3 |
| 65° | 6212.6 | 5258.7 | 1588.4 | 340.1 | 261.3 | 215.7 | 190.8 | 174.2 | 165.9 | 161.7 | 161.7 |
| 67.5° | 6747.6 | 5756.4 | 1775.0 | 381.5 | 273.7 | 199.1 | 170.0 | 157.6 | 153.4 | 149.3 | 149.3 |
| 70° | 7137.4 | 5909.9 | 1190.3 | 418.9 | 294.5 | 186.6 | 153.4 | 145.2 | 136.9 | 136.9 | 136.9 |
| 72.5° | 6614.9 | 5275.3 | 705.0 | 394.0 | 277.9 | 174.2 | 136.9 | 128.6 | 124.4 | 124.4 | 120.3 |
| 75° | 5656.9 | 4491.5 | 543.3 | 319.3 | 224.0 | 149.3 | 120.3 | 112.0 | 107.8 | 107.8 | 103.7 |
| 77.5° | 4176.3 | 3218.3 | 402.3 | 253.0 | 174.2 | 120.3 | 103.7 | 99.5 | 95.4 | 91.2 | 91.2 |
| 80° | 1634.0 | 1410.1 | 273.7 | 186.6 | 128.6 | 95.4 | 87.1 | 82.9 | 78.8 | 74.7 | 74.7 |
| 82.5° | 506.0 | 427.2 | 157.6 | 124.4 | 91.2 | 74.7 | 70.5 | 66.4 | 62.2 | 58.1 | 58.1 |
| 85° | 219.8 | 211.5 | 103.7 | 78.8 | 62.2 | 49.8 | 49.8 | 45.6 | 41.5 | 37.3 | 37.3 |
| 87.5° | 107.8 | 103.7 | 58.1 | 37.3 | 33.2 | 24.9 | 24.9 | 20.7 | 16.6 | 16.6 | 16.6 |
| 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)