

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: P675675

Luminaire Tested: **CCW-SA-2E-727-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675675
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

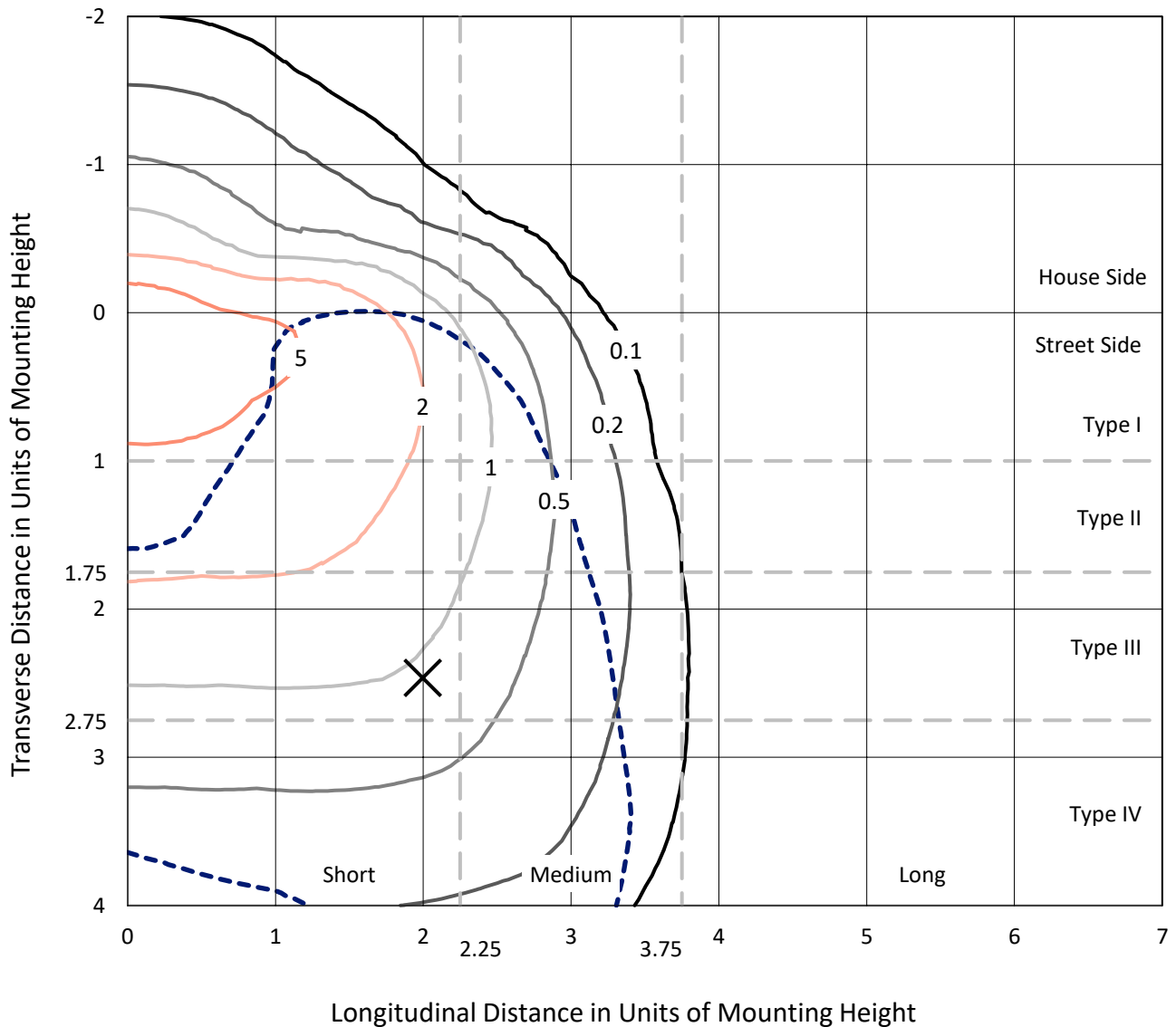
Lumens per Lamp: N/A
Luminaire Lumens: 11205.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

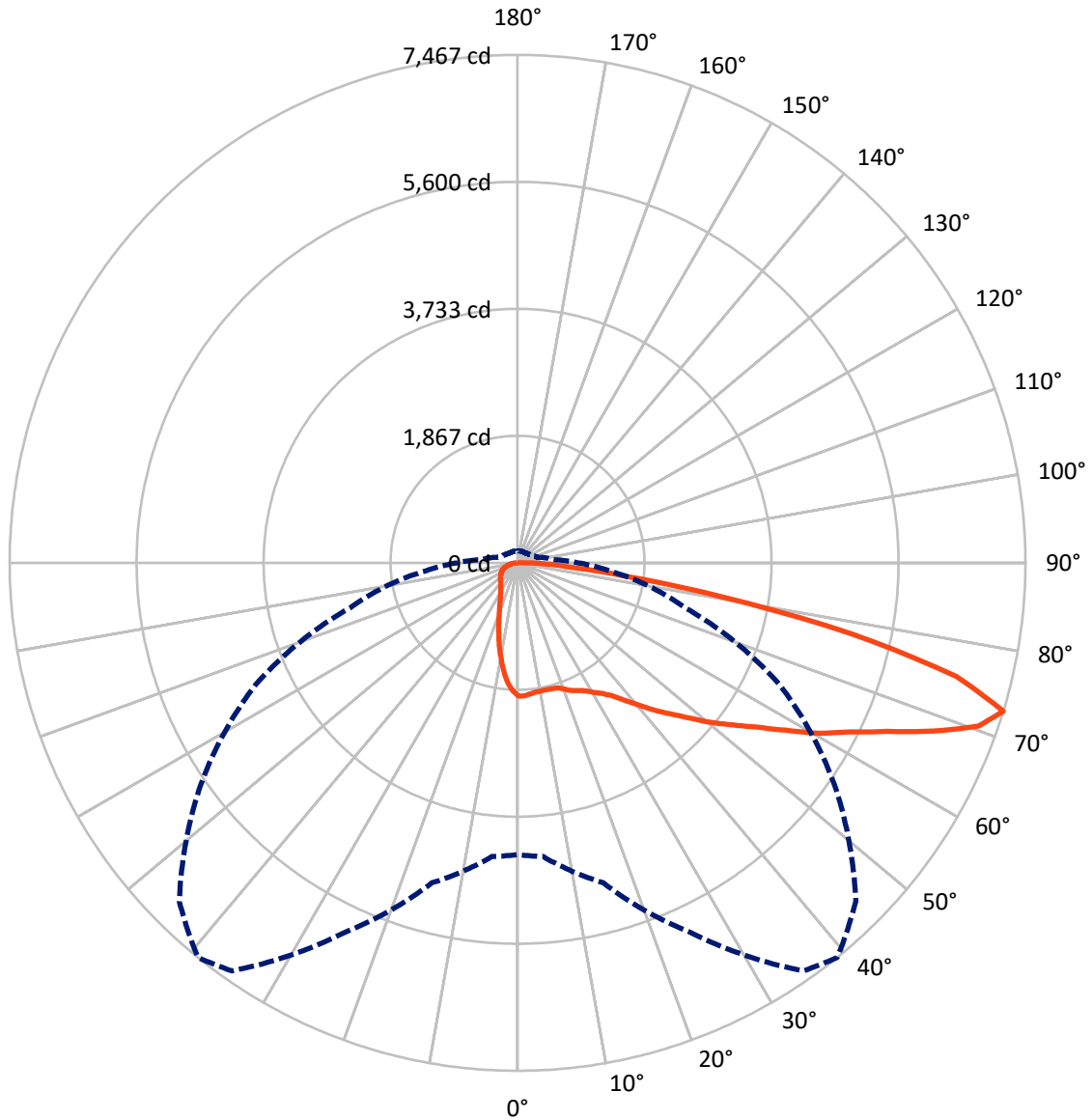
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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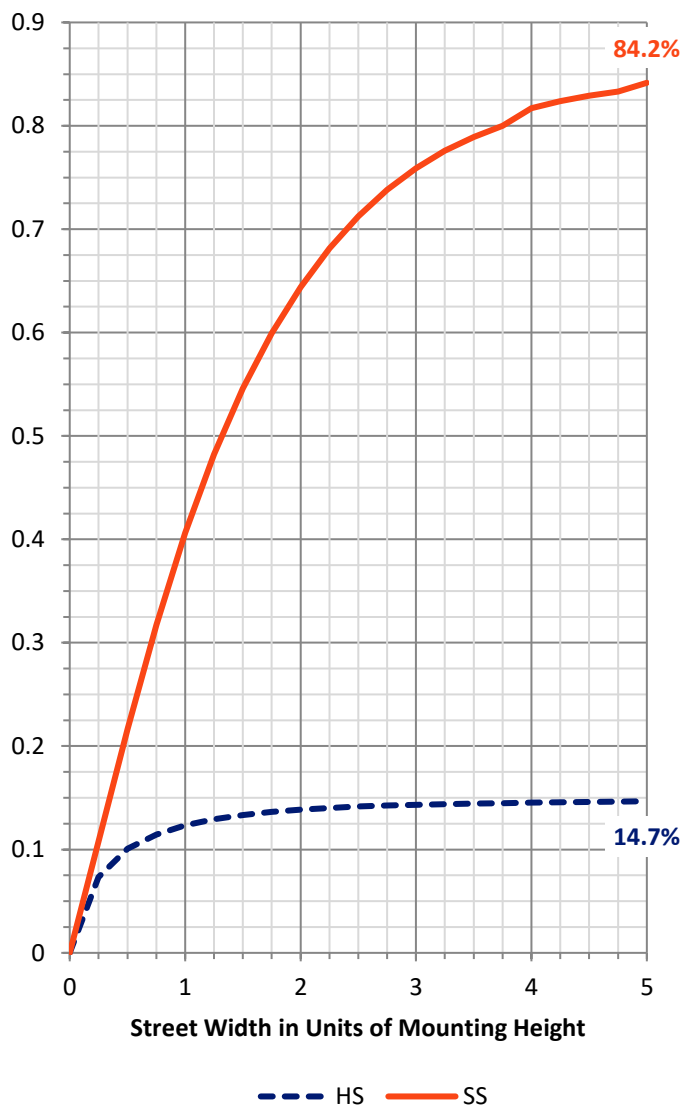
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1665.3 | 0.0 | 1665.3 |
| | % Fixture | 14.9 | 0.0 | 14.9 |
| Street Side | Lumens | 9539.9 | 0.0 | 9539.9 |
| | % Fixture | 85.1 | 0.0 | 85.1 |
| Total | Lumens | 11205.2 | 0.0 | 11205.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.3 | 1.5 |
| 10°-20° | 442.4 | 3.9 |
| 20°-30° | 673.9 | 6.0 |
| 30°-40° | 985.8 | 8.8 |
| 40°-50° | 1509.3 | 13.5 |
| 50°-60° | 2213.6 | 19.8 |
| 60°-70° | 2823.1 | 25.2 |
| 70°-80° | 2039.7 | 18.2 |
| 80°-90° | 344.1 | 3.1 |
| 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° | 11205.2 | 100.0 |
| 0°-180° | 11205.2 | 100.0 |



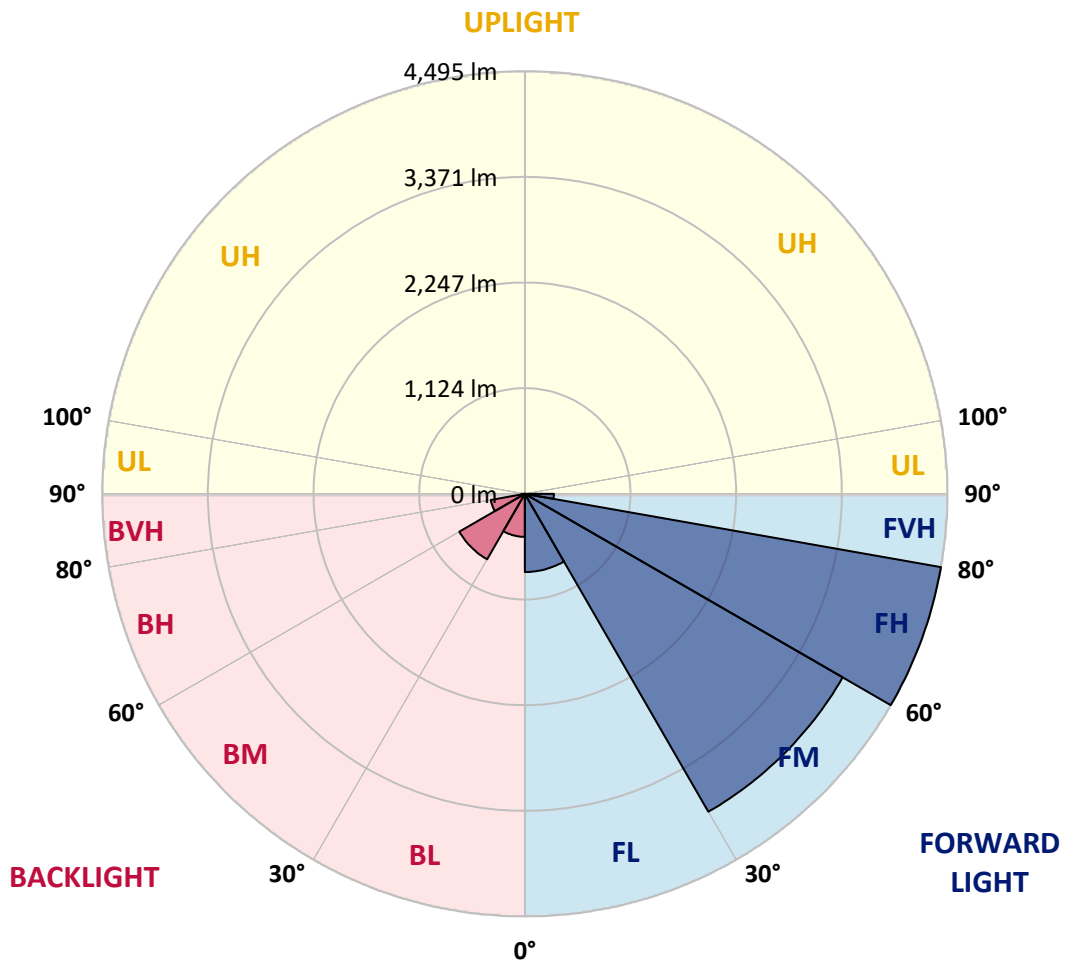
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 831.6 | 7.4 | | | |
| FM (30°-60°) | 3904.2 | 34.8 | | | |
| FH (60°-80°) | 4494.9 | 40.1 | | | G2/5000 |
| FVH (80°-90°) | 309.2 | 2.8 | | | G3/500 |
| BL (0°-30°) | 458.0 | 4.1 | B1/500 | | |
| BM (30°-60°) | 804.5 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 368.0 | 3.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 34.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 |
| 2.5° | 1990.9 | 1995.1 | 1986.7 | 1978.2 | 1974.0 | 1957.2 | 1974.0 | 1965.6 | 1957.2 | 1957.2 | 1957.2 |
| 5° | 1965.6 | 1969.8 | 1969.8 | 1961.4 | 1965.6 | 1936.1 | 1931.9 | 1936.1 | 1923.5 | 1915.1 | 1910.9 |
| 7.5° | 1927.7 | 1936.1 | 1953.0 | 1948.8 | 1931.9 | 1919.3 | 1923.5 | 1919.3 | 1898.3 | 1885.6 | 1852.0 |
| 10° | 1898.3 | 1906.7 | 1915.1 | 1923.5 | 1919.3 | 1915.1 | 1910.9 | 1894.1 | 1889.8 | 1860.4 | 1826.7 |
| 12.5° | 1868.8 | 1868.8 | 1873.0 | 1906.7 | 1910.9 | 1910.9 | 1885.6 | 1885.6 | 1873.0 | 1868.8 | 1818.3 |
| 15° | 1839.3 | 1852.0 | 1885.6 | 1894.1 | 1910.9 | 1919.3 | 1906.7 | 1906.7 | 1885.6 | 1856.2 | 1818.3 |
| 17.5° | 1847.8 | 1868.8 | 1902.5 | 1923.5 | 1931.9 | 1931.9 | 1948.8 | 1936.1 | 1906.7 | 1889.8 | 1852.0 |
| 20° | 1889.8 | 1894.1 | 1936.1 | 1974.0 | 1982.4 | 1982.4 | 1965.6 | 1953.0 | 1931.9 | 1902.5 | 1852.0 |
| 22.5° | 1915.1 | 1944.6 | 1995.1 | 2016.1 | 2041.4 | 2041.4 | 2020.3 | 1990.9 | 1961.4 | 1931.9 | 1877.2 |
| 25° | 2024.5 | 2028.7 | 2049.8 | 2083.5 | 2096.1 | 2079.3 | 2058.2 | 2024.5 | 1986.7 | 1957.2 | 1906.7 |
| 27.5° | 2100.3 | 2121.3 | 2146.6 | 2163.4 | 2142.4 | 2129.8 | 2112.9 | 2075.0 | 2045.6 | 2020.3 | 1948.8 |
| 30° | 2239.2 | 2213.9 | 2230.8 | 2239.2 | 2201.3 | 2209.7 | 2163.4 | 2129.8 | 2096.1 | 2096.1 | 2016.1 |
| 32.5° | 2323.4 | 2344.4 | 2327.6 | 2323.4 | 2293.9 | 2289.7 | 2260.2 | 2222.4 | 2201.3 | 2226.6 | 2117.1 |
| 35° | 2470.7 | 2458.1 | 2458.1 | 2453.9 | 2420.2 | 2399.1 | 2399.1 | 2331.8 | 2352.8 | 2407.6 | 2272.9 |
| 37.5° | 2546.5 | 2542.2 | 2567.5 | 2588.5 | 2554.9 | 2567.5 | 2554.9 | 2525.4 | 2533.8 | 2630.6 | 2466.5 |
| 40° | 2622.2 | 2651.7 | 2702.2 | 2710.6 | 2731.7 | 2748.5 | 2740.1 | 2735.9 | 2769.5 | 2925.3 | 2727.4 |
| 42.5° | 2693.8 | 2719.0 | 2794.8 | 2862.1 | 2912.6 | 2967.4 | 2971.6 | 2971.6 | 3081.0 | 3304.1 | 3043.1 |
| 45° | 2786.4 | 2807.4 | 2912.6 | 3047.3 | 3131.5 | 3169.4 | 3203.1 | 3240.9 | 3388.3 | 3653.4 | 3379.8 |
| 47.5° | 2912.6 | 2929.5 | 3055.7 | 3224.1 | 3388.3 | 3409.3 | 3476.6 | 3518.7 | 3741.8 | 4011.2 | 3725.0 |
| 50° | 3093.6 | 3081.0 | 3182.0 | 3426.1 | 3586.1 | 3687.1 | 3783.9 | 3859.7 | 4078.5 | 4373.2 | 3994.4 |
| 52.5° | 3240.9 | 3240.9 | 3316.7 | 3640.8 | 3859.7 | 3956.5 | 4057.5 | 4162.7 | 4415.3 | 4735.1 | 4213.2 |
| 55° | 3493.5 | 3468.2 | 3514.5 | 3851.3 | 4166.9 | 4259.5 | 4453.1 | 4541.5 | 4785.7 | 5004.5 | 4398.4 |
| 57.5° | 3666.1 | 3678.7 | 3733.4 | 4129.0 | 4528.9 | 4642.5 | 4836.2 | 4899.3 | 5114.0 | 5286.5 | 4533.1 |
| 60° | 3893.3 | 3851.3 | 3969.1 | 4436.3 | 4928.8 | 5088.7 | 5248.6 | 5286.5 | 5446.5 | 5467.5 | 4596.2 |
| 62.5° | 4112.2 | 4103.8 | 4204.8 | 4743.6 | 5358.1 | 5471.7 | 5635.9 | 5678.0 | 5745.3 | 5610.6 | 4507.9 |
| 65° | 4246.9 | 4301.6 | 4491.0 | 5080.3 | 5846.3 | 5972.6 | 6136.7 | 6052.6 | 5976.8 | 5484.3 | 4074.3 |
| 67.5° | 4432.1 | 4457.3 | 4747.8 | 5446.5 | 6410.3 | 6599.7 | 6742.8 | 6410.3 | 5846.3 | 4966.6 | 3430.3 |
| 70° | 4474.2 | 4541.5 | 4920.3 | 5829.5 | 6991.2 | 7184.8 | 7193.2 | 6288.3 | 5370.7 | 4040.7 | 2487.5 |
| 72.5° | 4289.0 | 4335.3 | 4869.8 | 5989.4 | 7323.7 | 7466.8 | 7033.3 | 5686.4 | 4255.3 | 2546.5 | 1355.3 |
| 75° | 3607.1 | 3737.6 | 4238.5 | 5497.0 | 6713.4 | 6658.7 | 5960.0 | 4339.5 | 2554.9 | 1128.0 | 572.4 |
| 77.5° | 2512.8 | 2517.0 | 3038.9 | 3998.6 | 5025.6 | 5012.9 | 4251.1 | 2517.0 | 1094.3 | 454.6 | 336.7 |
| 80° | 1115.4 | 1195.4 | 1511.0 | 2155.0 | 3051.5 | 3051.5 | 2479.1 | 1250.1 | 547.2 | 294.6 | 231.5 |
| 82.5° | 656.6 | 681.9 | 808.1 | 1006.0 | 1485.8 | 1565.8 | 1186.9 | 833.4 | 374.6 | 185.2 | 143.1 |
| 85° | 484.0 | 526.1 | 601.9 | 606.1 | 702.9 | 715.5 | 656.6 | 724.0 | 256.8 | 101.0 | 117.9 |
| 87.5° | 362.0 | 387.2 | 479.8 | 399.9 | 374.6 | 353.6 | 404.1 | 740.8 | 96.8 | 50.5 | 37.9 |
| 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° | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 | 1961.4 |
| 2.5° | 1940.4 | 1940.4 | 1931.9 | 1915.1 | 1915.1 | 1881.4 | 1889.8 | 1898.3 | 1877.2 | 1877.2 | 1881.4 |
| 5° | 1910.9 | 1894.1 | 1873.0 | 1847.8 | 1830.9 | 1784.6 | 1776.2 | 1746.7 | 1742.5 | 1734.1 | 1721.5 |
| 7.5° | 1852.0 | 1826.7 | 1788.8 | 1751.0 | 1696.2 | 1654.1 | 1603.6 | 1561.5 | 1544.7 | 1532.1 | 1527.9 |
| 10° | 1797.3 | 1793.0 | 1729.9 | 1654.1 | 1570.0 | 1490.0 | 1414.2 | 1359.5 | 1325.8 | 1304.8 | 1300.6 |
| 12.5° | 1797.3 | 1763.6 | 1675.2 | 1570.0 | 1447.9 | 1330.0 | 1233.2 | 1157.5 | 1111.2 | 1077.5 | 1064.9 |
| 15° | 1788.8 | 1755.2 | 1637.3 | 1477.4 | 1338.5 | 1178.5 | 1043.8 | 963.9 | 896.5 | 862.8 | 867.1 |
| 17.5° | 1797.3 | 1746.7 | 1582.6 | 1410.0 | 1216.4 | 1043.8 | 883.9 | 787.1 | 719.7 | 694.5 | 690.3 |
| 20° | 1801.5 | 1738.3 | 1540.5 | 1317.4 | 1090.1 | 896.5 | 745.0 | 652.4 | 601.9 | 585.1 | 585.1 |
| 22.5° | 1793.0 | 1713.1 | 1477.4 | 1208.0 | 980.7 | 774.5 | 648.2 | 568.2 | 534.5 | 513.5 | 521.9 |
| 25° | 1830.9 | 1708.9 | 1418.4 | 1115.4 | 854.4 | 673.4 | 576.6 | 517.7 | 496.7 | 484.0 | 488.2 |
| 27.5° | 1839.3 | 1708.9 | 1372.1 | 1010.2 | 745.0 | 597.7 | 521.9 | 484.0 | 467.2 | 458.8 | 454.6 |
| 30° | 1873.0 | 1717.3 | 1317.4 | 904.9 | 656.6 | 538.8 | 479.8 | 458.8 | 446.2 | 441.9 | 441.9 |
| 32.5° | 1965.6 | 1742.5 | 1258.5 | 816.5 | 580.8 | 488.2 | 450.4 | 433.5 | 425.1 | 420.9 | 425.1 |
| 35° | 2075.0 | 1809.9 | 1195.4 | 724.0 | 526.1 | 454.6 | 425.1 | 412.5 | 408.3 | 408.3 | 408.3 |
| 37.5° | 2243.4 | 1910.9 | 1140.6 | 648.2 | 479.8 | 420.9 | 399.9 | 395.6 | 391.4 | 395.6 | 395.6 |
| 40° | 2437.0 | 2020.3 | 1090.1 | 589.3 | 446.2 | 399.9 | 378.8 | 378.8 | 374.6 | 378.8 | 383.0 |
| 42.5° | 2660.1 | 2155.0 | 1039.6 | 530.3 | 416.7 | 383.0 | 366.2 | 362.0 | 357.8 | 366.2 | 370.4 |
| 45° | 2967.4 | 2340.2 | 1006.0 | 496.7 | 395.6 | 366.2 | 349.3 | 349.3 | 345.1 | 345.1 | 353.6 |
| 47.5° | 3224.1 | 2517.0 | 1006.0 | 463.0 | 383.0 | 353.6 | 336.7 | 336.7 | 328.3 | 332.5 | 332.5 |
| 50° | 3438.8 | 2668.5 | 1027.0 | 454.6 | 366.2 | 340.9 | 328.3 | 319.9 | 315.7 | 315.7 | 315.7 |
| 52.5° | 3581.9 | 2761.1 | 1043.8 | 446.2 | 357.8 | 324.1 | 315.7 | 311.5 | 303.0 | 298.8 | 303.0 |
| 55° | 3725.0 | 2824.3 | 1048.0 | 446.2 | 345.1 | 307.3 | 298.8 | 298.8 | 290.4 | 286.2 | 286.2 |
| 57.5° | 3779.7 | 2799.0 | 989.1 | 437.7 | 336.7 | 294.6 | 286.2 | 282.0 | 277.8 | 273.6 | 273.6 |
| 60° | 3754.4 | 2706.4 | 858.6 | 416.7 | 328.3 | 286.2 | 269.4 | 269.4 | 269.4 | 261.0 | 265.2 |
| 62.5° | 3581.9 | 2390.7 | 690.3 | 383.0 | 315.7 | 269.4 | 252.5 | 261.0 | 261.0 | 256.8 | 256.8 |
| 65° | 3127.3 | 1974.0 | 559.8 | 353.6 | 298.8 | 256.8 | 239.9 | 252.5 | 256.8 | 252.5 | 248.3 |
| 67.5° | 2500.2 | 1519.5 | 463.0 | 319.9 | 277.8 | 235.7 | 223.1 | 235.7 | 239.9 | 235.7 | 235.7 |
| 70° | 1717.3 | 980.7 | 374.6 | 286.2 | 248.3 | 214.7 | 202.0 | 210.5 | 210.5 | 214.7 | 214.7 |
| 72.5° | 888.1 | 530.3 | 307.3 | 244.1 | 214.7 | 193.6 | 181.0 | 181.0 | 176.8 | 176.8 | 176.8 |
| 75° | 441.9 | 362.0 | 256.8 | 206.2 | 181.0 | 164.2 | 155.7 | 147.3 | 147.3 | 147.3 | 147.3 |
| 77.5° | 307.3 | 277.8 | 210.5 | 164.2 | 147.3 | 134.7 | 134.7 | 122.1 | 122.1 | 122.1 | 122.1 |
| 80° | 231.5 | 218.9 | 159.9 | 126.3 | 113.6 | 105.2 | 105.2 | 101.0 | 101.0 | 96.8 | 96.8 |
| 82.5° | 164.2 | 176.8 | 122.1 | 92.6 | 84.2 | 80.0 | 80.0 | 75.8 | 75.8 | 67.3 | 67.3 |
| 85° | 130.5 | 147.3 | 92.6 | 67.3 | 63.1 | 54.7 | 54.7 | 50.5 | 50.5 | 46.3 | 42.1 |
| 87.5° | 37.9 | 80.0 | 37.9 | 25.3 | 25.3 | 25.3 | 25.3 | 21.0 | 21.0 | 16.8 | 16.8 |
| 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)