

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: P674025

Luminaire Tested: **CCP-SA-2E-827-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674025
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-827-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

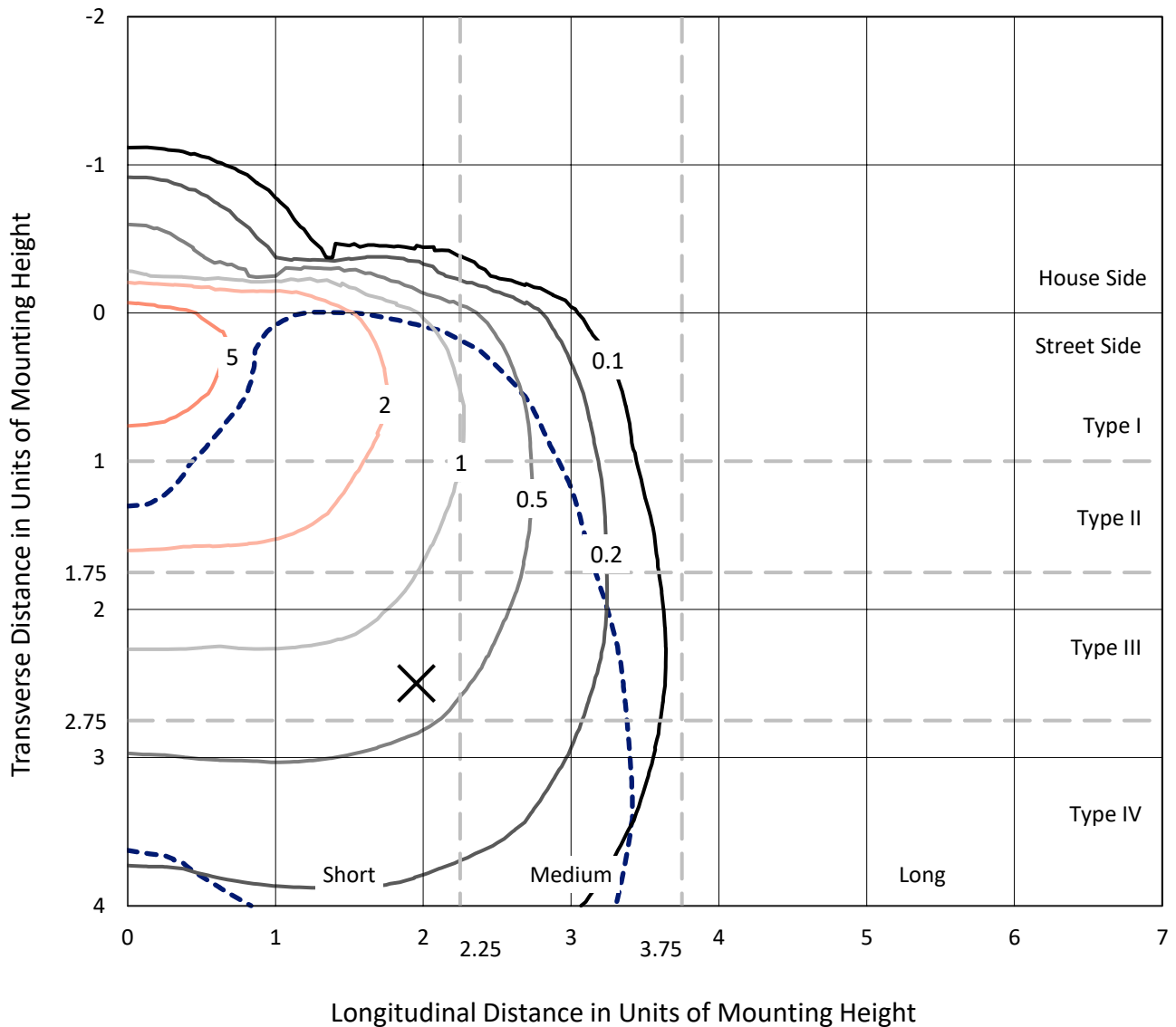
Lumens per Lamp: N/A
Luminaire Lumens: 8302.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: CCP-SA-2E-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

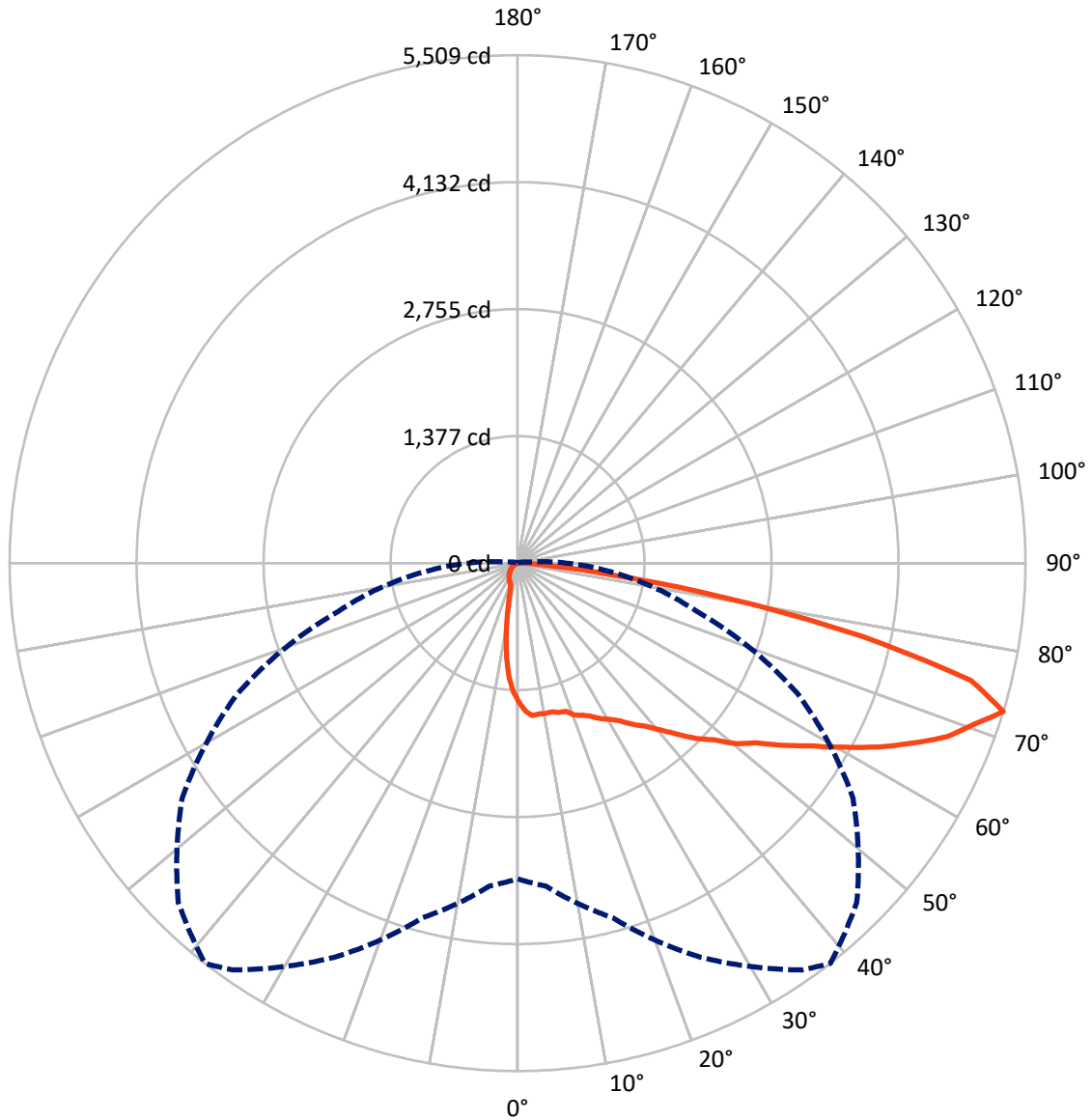
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P674025
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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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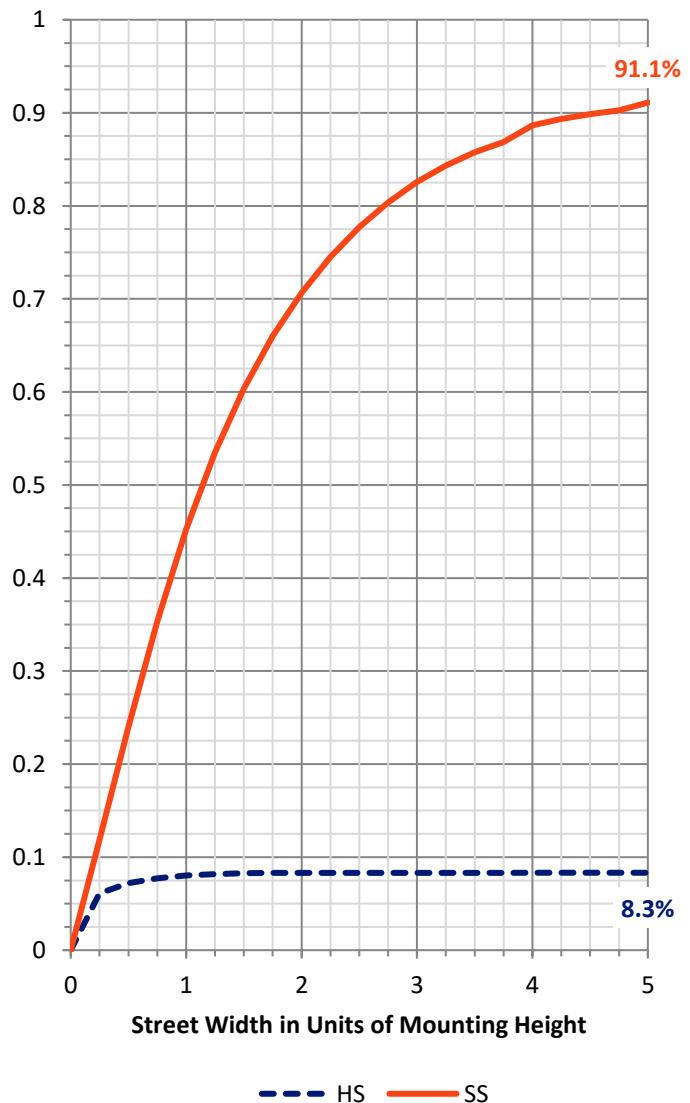
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 695.3 | 0.0 | 695.3 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 7607.1 | 0.0 | 7607.1 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 8302.4 | 0.0 | 8302.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 131.4 | 1.6 |
| 10°-20° | 321.8 | 3.9 |
| 20°-30° | 515.8 | 6.2 |
| 30°-40° | 778.8 | 9.4 |
| 40°-50° | 1185.3 | 14.3 |
| 50°-60° | 1668.7 | 20.1 |
| 60°-70° | 2038.3 | 24.6 |
| 70°-80° | 1480.1 | 17.8 |
| 80°-90° | 182.3 | 2.2 |
| 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° | 8302.4 | 100.0 |
| 0°-180° | 8302.4 | 100.0 |



REPORT NUMBER: P674025

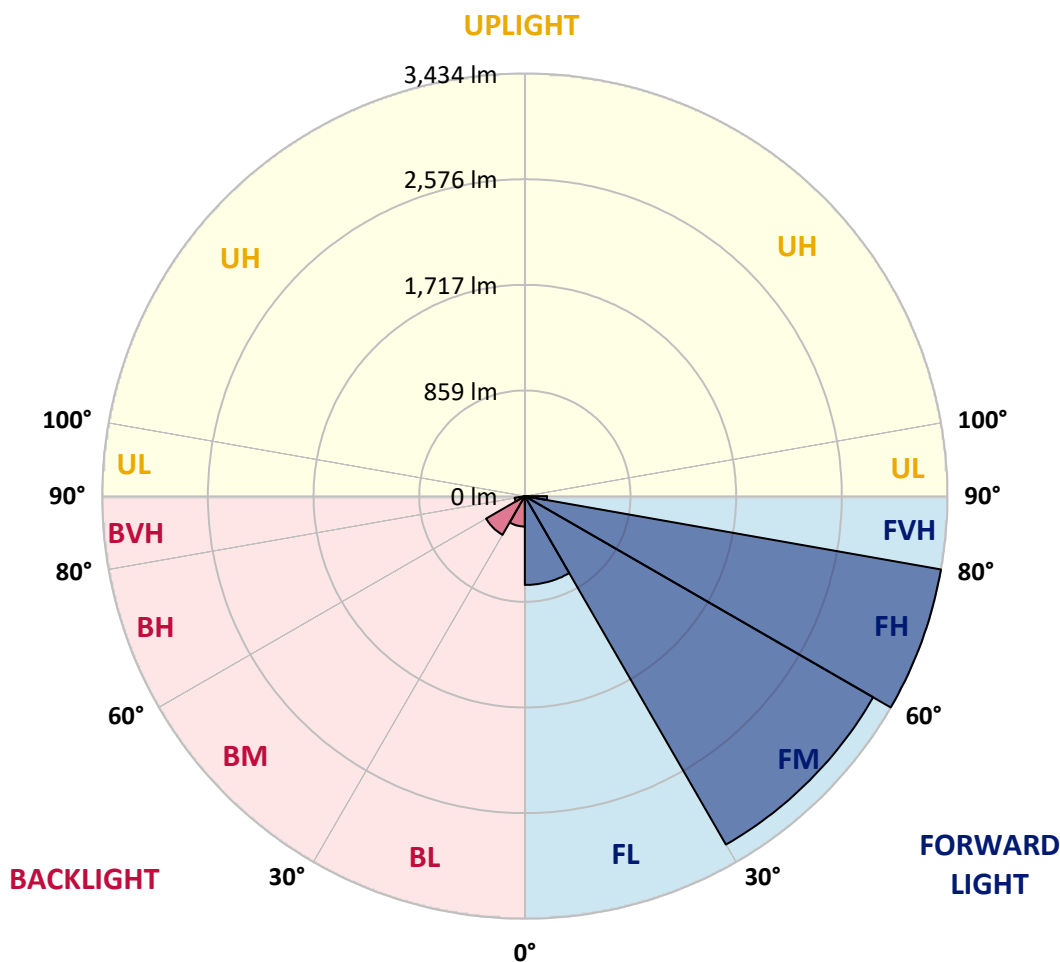
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 722.1 | 8.7 | | | |
| FM (30°-60°) | 3269.5 | 39.4 | | | |
| FH (60°-80°) | 3434.1 | 41.4 | | | G2/5000 |
| FVH (80°-90°) | 181.3 | 2.2 | | | G2/225 |
| BL (0°-30°) | 246.9 | 3.0 | B1/500 | | |
| BM (30°-60°) | 363.2 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 84.3 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.9 | 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 IV Short





REPORT NUMBER: P674025

CATALOG NUMBER: CCP-SA-2E-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 |
| 2.5° | 1649.4 | 1649.4 | 1665.0 | 1649.4 | 1643.6 | 1606.6 | 1608.5 | 1589.0 | 1569.6 | 1542.3 | 1517.0 |
| 5° | 1668.9 | 1682.5 | 1692.2 | 1678.6 | 1657.2 | 1661.1 | 1674.7 | 1637.7 | 1585.1 | 1552.0 | 1495.6 |
| 7.5° | 1661.1 | 1690.3 | 1682.5 | 1674.7 | 1661.1 | 1651.4 | 1631.9 | 1616.3 | 1591.0 | 1559.8 | 1493.6 |
| 10° | 1655.2 | 1665.0 | 1666.9 | 1661.1 | 1631.9 | 1659.1 | 1637.7 | 1612.4 | 1581.2 | 1544.2 | 1462.5 |
| 12.5° | 1633.8 | 1633.8 | 1651.4 | 1637.7 | 1641.6 | 1655.2 | 1645.5 | 1639.7 | 1606.6 | 1575.4 | 1503.4 |
| 15° | 1610.5 | 1618.2 | 1645.5 | 1666.9 | 1686.4 | 1680.6 | 1674.7 | 1657.2 | 1628.0 | 1592.9 | 1517.0 |
| 17.5° | 1616.3 | 1620.2 | 1663.0 | 1702.0 | 1692.2 | 1688.4 | 1719.5 | 1682.5 | 1653.3 | 1614.4 | 1528.7 |
| 20° | 1637.7 | 1649.4 | 1698.1 | 1748.7 | 1758.5 | 1758.5 | 1746.8 | 1725.4 | 1684.5 | 1631.9 | 1550.1 |
| 22.5° | 1659.1 | 1663.0 | 1742.9 | 1807.1 | 1816.9 | 1791.6 | 1801.3 | 1739.0 | 1700.0 | 1670.8 | 1571.5 |
| 25° | 1740.9 | 1733.1 | 1818.8 | 1869.5 | 1863.6 | 1838.3 | 1828.6 | 1774.0 | 1758.5 | 1705.9 | 1618.2 |
| 27.5° | 1851.9 | 1818.8 | 1902.6 | 1933.7 | 1902.6 | 1910.4 | 1883.1 | 1824.7 | 1791.6 | 1760.4 | 1639.7 |
| 30° | 1920.1 | 1939.6 | 1984.3 | 2015.5 | 1962.9 | 1964.9 | 1951.2 | 1887.0 | 1836.4 | 1844.1 | 1711.7 |
| 32.5° | 2025.2 | 2038.9 | 2072.0 | 2085.6 | 2044.7 | 2040.8 | 2027.2 | 1976.6 | 1939.6 | 1931.8 | 1809.1 |
| 35° | 2138.2 | 2163.5 | 2165.5 | 2169.3 | 2132.3 | 2147.9 | 2128.5 | 2056.4 | 2075.9 | 2089.5 | 1925.9 |
| 37.5° | 2249.2 | 2225.8 | 2264.8 | 2282.3 | 2241.4 | 2241.4 | 2247.2 | 2198.6 | 2233.6 | 2274.5 | 2091.5 |
| 40° | 2292.0 | 2301.8 | 2369.9 | 2356.3 | 2405.0 | 2375.8 | 2397.2 | 2385.5 | 2414.7 | 2508.2 | 2325.1 |
| 42.5° | 2336.8 | 2348.5 | 2440.0 | 2465.3 | 2523.8 | 2533.5 | 2564.7 | 2566.6 | 2652.3 | 2806.1 | 2549.1 |
| 45° | 2422.5 | 2403.0 | 2527.7 | 2590.0 | 2685.4 | 2712.7 | 2749.7 | 2780.8 | 2915.2 | 3096.3 | 2804.2 |
| 47.5° | 2500.4 | 2473.1 | 2615.3 | 2739.9 | 2856.8 | 2862.6 | 2963.9 | 2997.0 | 3156.7 | 3363.1 | 3057.3 |
| 50° | 2609.4 | 2619.2 | 2679.6 | 2893.8 | 3012.6 | 3080.7 | 3150.8 | 3259.9 | 3437.1 | 3657.1 | 3240.4 |
| 52.5° | 2722.4 | 2712.7 | 2813.9 | 3024.2 | 3211.2 | 3236.5 | 3394.2 | 3516.9 | 3709.7 | 3875.2 | 3322.2 |
| 55° | 2860.7 | 2872.3 | 2911.3 | 3187.8 | 3425.4 | 3485.8 | 3663.0 | 3791.5 | 4001.8 | 3968.7 | 3349.4 |
| 57.5° | 2998.9 | 2987.2 | 3074.9 | 3370.9 | 3694.1 | 3738.9 | 3974.5 | 4050.5 | 4192.6 | 4031.0 | 3281.3 |
| 60° | 3135.2 | 3156.7 | 3193.7 | 3577.3 | 3988.2 | 4054.4 | 4241.3 | 4280.3 | 4311.4 | 4060.2 | 3228.7 |
| 62.5° | 3291.0 | 3240.4 | 3355.3 | 3795.4 | 4253.0 | 4391.3 | 4539.3 | 4385.4 | 4358.2 | 4007.6 | 3108.0 |
| 65° | 3368.9 | 3384.5 | 3534.4 | 4044.6 | 4605.5 | 4706.7 | 4726.2 | 4527.6 | 4387.4 | 3890.8 | 2995.0 |
| 67.5° | 3489.7 | 3511.1 | 3701.9 | 4299.7 | 4967.7 | 5024.2 | 4954.1 | 4656.1 | 4362.1 | 3738.9 | 2588.0 |
| 70° | 3505.2 | 3557.8 | 3925.9 | 4566.5 | 5195.5 | 5244.2 | 5189.7 | 4741.8 | 4157.6 | 3141.1 | 1916.2 |
| 72.5° | 3423.4 | 3516.9 | 3980.4 | 4718.4 | 5386.4 | 5509.1 | 5203.3 | 4440.0 | 3351.4 | 2003.8 | 981.5 |
| 75° | 2586.1 | 2664.0 | 3643.5 | 4492.5 | 5047.5 | 5076.7 | 4568.5 | 3388.4 | 1908.4 | 683.5 | 251.2 |
| 77.5° | 1339.8 | 1474.1 | 2432.2 | 3433.2 | 3846.0 | 3814.9 | 3180.0 | 1996.0 | 656.3 | 179.2 | 101.3 |
| 80° | 769.2 | 802.3 | 1063.3 | 1927.9 | 2418.6 | 2299.8 | 1758.5 | 860.7 | 288.2 | 89.6 | 66.2 |
| 82.5° | 379.7 | 426.5 | 572.5 | 862.7 | 1209.3 | 995.1 | 660.2 | 516.0 | 161.6 | 48.7 | 58.4 |
| 85° | 81.8 | 85.7 | 292.1 | 412.8 | 490.7 | 323.3 | 225.9 | 434.3 | 58.4 | 29.2 | 56.5 |
| 87.5° | 58.4 | 56.5 | 81.8 | 185.0 | 136.3 | 83.7 | 134.4 | 227.8 | 13.6 | 13.6 | 11.7 |
| 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° | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 | 1501.4 |
| 2.5° | 1501.4 | 1483.9 | 1464.4 | 1427.4 | 1417.7 | 1411.8 | 1378.7 | 1376.8 | 1370.9 | 1357.3 | 1351.5 |
| 5° | 1460.5 | 1431.3 | 1394.3 | 1355.4 | 1324.2 | 1267.7 | 1199.6 | 1164.5 | 1121.7 | 1123.6 | 1110.0 |
| 7.5° | 1454.7 | 1400.1 | 1347.6 | 1265.8 | 1166.5 | 1061.3 | 956.1 | 888.0 | 839.3 | 810.1 | 815.9 |
| 10° | 1427.4 | 1386.5 | 1300.8 | 1148.9 | 989.3 | 829.6 | 695.2 | 593.9 | 535.5 | 490.7 | 504.4 |
| 12.5° | 1439.1 | 1359.3 | 1238.5 | 1036.0 | 808.2 | 611.5 | 444.0 | 346.6 | 303.8 | 288.2 | 292.1 |
| 15° | 1431.3 | 1359.3 | 1201.5 | 913.3 | 634.8 | 414.8 | 288.2 | 257.1 | 249.3 | 249.3 | 245.4 |
| 17.5° | 1454.7 | 1374.8 | 1139.2 | 792.6 | 455.7 | 276.5 | 247.3 | 241.5 | 235.6 | 235.6 | 235.6 |
| 20° | 1487.8 | 1382.6 | 1096.4 | 658.2 | 321.3 | 243.4 | 231.7 | 227.8 | 225.9 | 225.9 | 223.9 |
| 22.5° | 1489.7 | 1374.8 | 1016.5 | 510.2 | 247.3 | 229.8 | 220.1 | 218.1 | 218.1 | 214.2 | 214.2 |
| 25° | 1501.4 | 1382.6 | 930.8 | 383.6 | 229.8 | 216.2 | 208.4 | 206.4 | 208.4 | 206.4 | 204.5 |
| 27.5° | 1530.6 | 1396.2 | 845.1 | 280.4 | 216.2 | 204.5 | 198.6 | 196.7 | 196.7 | 196.7 | 192.8 |
| 30° | 1567.6 | 1396.2 | 749.7 | 231.7 | 204.5 | 192.8 | 186.9 | 185.0 | 183.1 | 183.1 | 183.1 |
| 32.5° | 1645.5 | 1441.0 | 632.9 | 206.4 | 188.9 | 179.2 | 173.3 | 173.3 | 171.4 | 171.4 | 169.4 |
| 35° | 1742.9 | 1472.2 | 514.1 | 190.8 | 175.3 | 165.5 | 159.7 | 159.7 | 157.7 | 157.7 | 155.8 |
| 37.5° | 1863.6 | 1550.1 | 393.4 | 179.2 | 161.6 | 151.9 | 146.1 | 146.1 | 146.1 | 144.1 | 144.1 |
| 40° | 2035.0 | 1629.9 | 292.1 | 163.6 | 148.0 | 138.3 | 134.4 | 132.4 | 130.5 | 130.5 | 126.6 |
| 42.5° | 2218.0 | 1752.6 | 218.1 | 151.9 | 136.3 | 128.5 | 122.7 | 116.8 | 116.8 | 111.0 | 111.0 |
| 45° | 2416.7 | 1859.7 | 177.2 | 138.3 | 124.6 | 114.9 | 109.1 | 105.2 | 99.3 | 95.4 | 95.4 |
| 47.5° | 2611.4 | 1925.9 | 155.8 | 122.7 | 112.9 | 105.2 | 99.3 | 91.5 | 83.7 | 81.8 | 79.8 |
| 50° | 2769.1 | 1945.4 | 138.3 | 111.0 | 103.2 | 95.4 | 87.6 | 77.9 | 70.1 | 66.2 | 64.3 |
| 52.5° | 2769.1 | 1838.3 | 124.6 | 99.3 | 93.5 | 85.7 | 75.9 | 64.3 | 54.5 | 50.6 | 48.7 |
| 55° | 2769.1 | 1668.9 | 111.0 | 91.5 | 83.7 | 77.9 | 64.3 | 52.6 | 42.8 | 37.0 | 35.1 |
| 57.5° | 2728.2 | 1464.4 | 99.3 | 81.8 | 74.0 | 66.2 | 54.5 | 40.9 | 31.2 | 25.3 | 25.3 |
| 60° | 2615.3 | 1250.2 | 85.7 | 72.1 | 64.3 | 54.5 | 42.8 | 29.2 | 19.5 | 13.6 | 13.6 |
| 62.5° | 2471.2 | 995.1 | 74.0 | 60.4 | 52.6 | 44.8 | 33.1 | 19.5 | 7.8 | 3.9 | 3.9 |
| 65° | 2220.0 | 734.2 | 64.3 | 50.6 | 40.9 | 33.1 | 21.4 | 7.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1832.5 | 490.7 | 50.6 | 40.9 | 35.1 | 23.4 | 13.6 | 1.9 | 0.0 | 0.0 | 0.0 |
| 70° | 1289.1 | 278.5 | 38.9 | 29.2 | 25.3 | 15.6 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 529.7 | 122.7 | 27.3 | 21.4 | 17.5 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 144.1 | 54.5 | 17.5 | 11.7 | 9.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 83.7 | 37.0 | 7.8 | 3.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 66.2 | 17.5 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 66.2 | 9.7 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 56.5 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.8 | 0.0 | 0.0 | 0.0 | 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)