

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: P676837

Luminaire Tested: **CCW-SA-2D-730-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676837
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-730-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

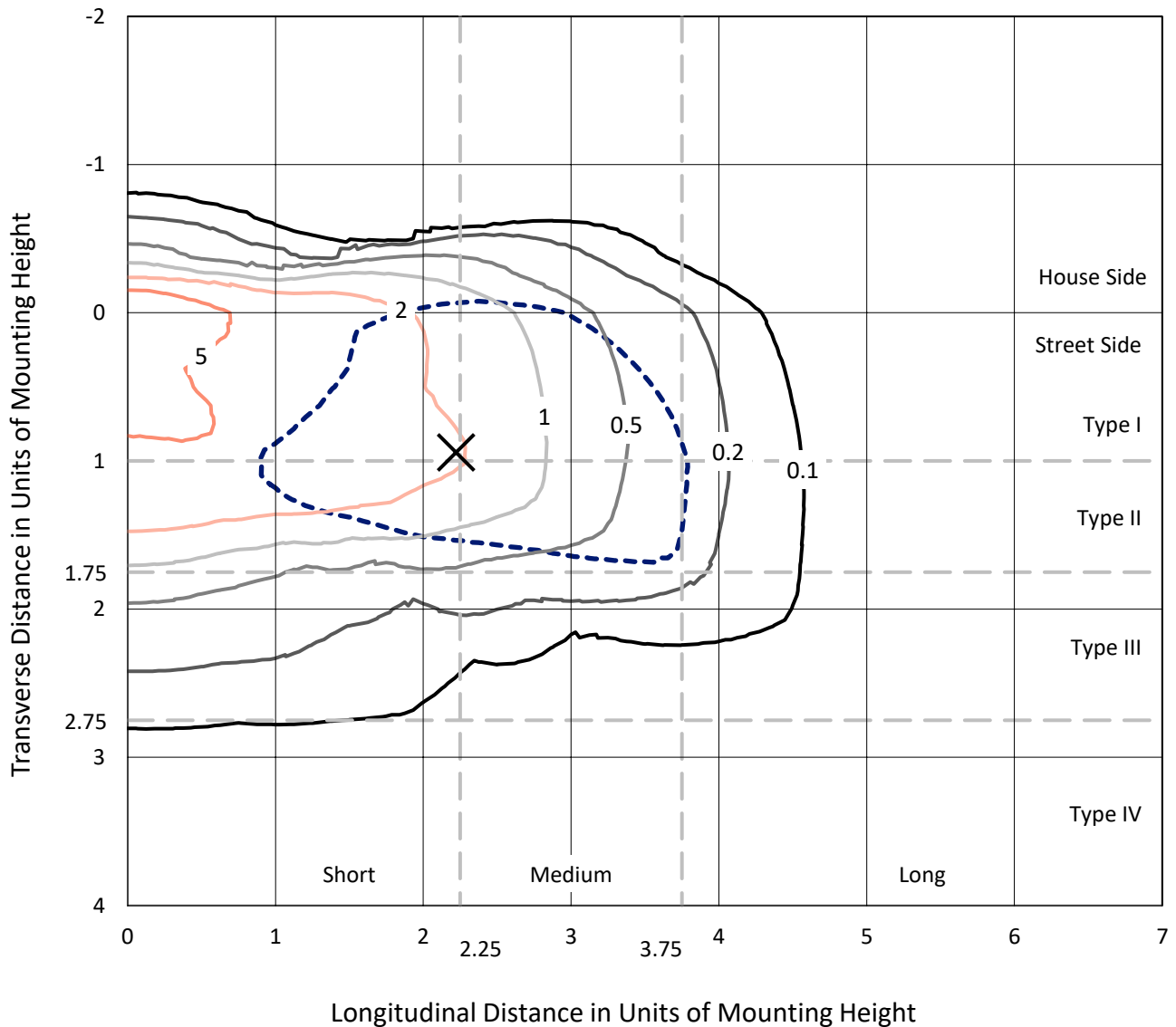
Lumens per Lamp: N/A
Luminaire Lumens: 8166.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

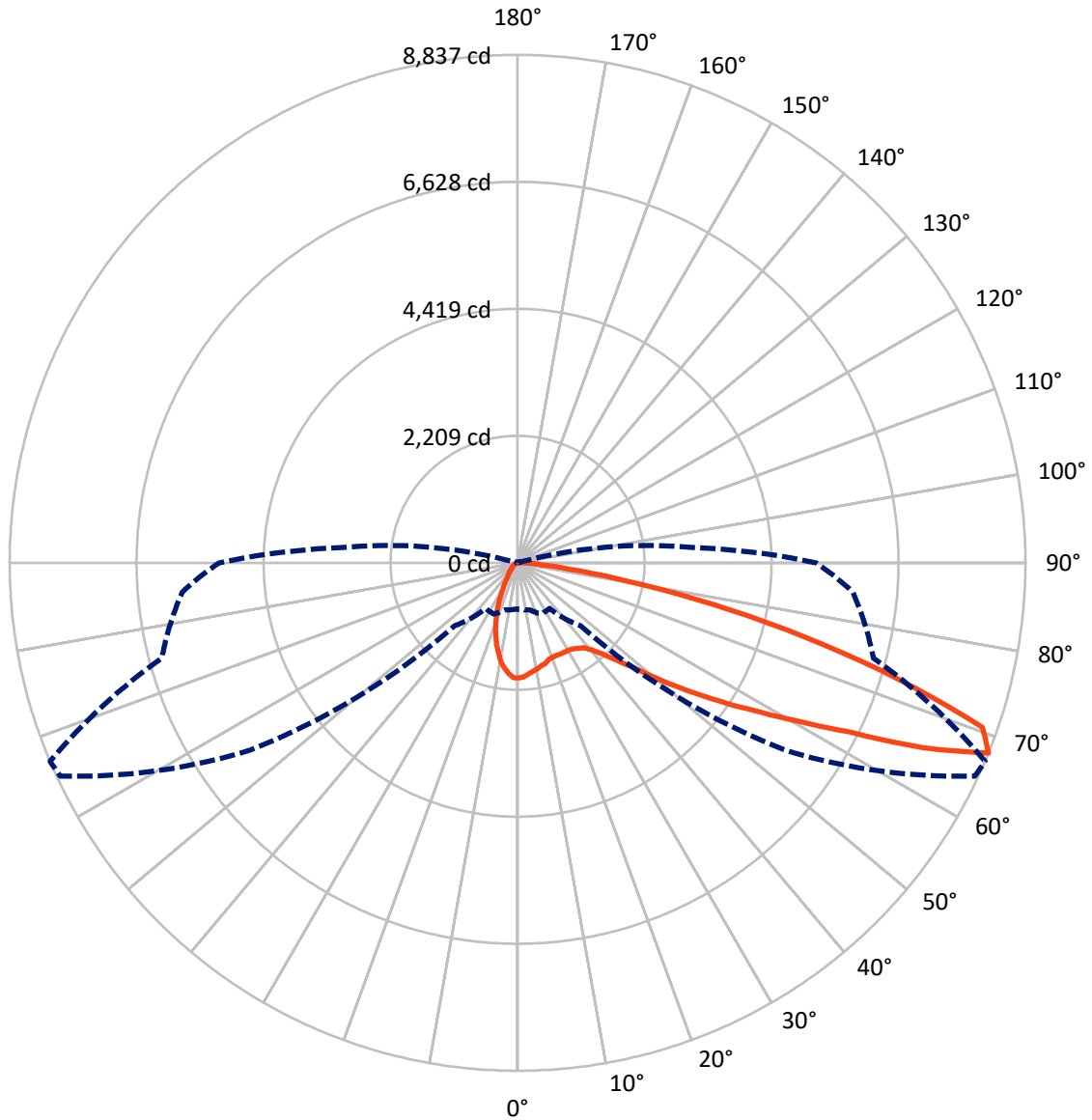
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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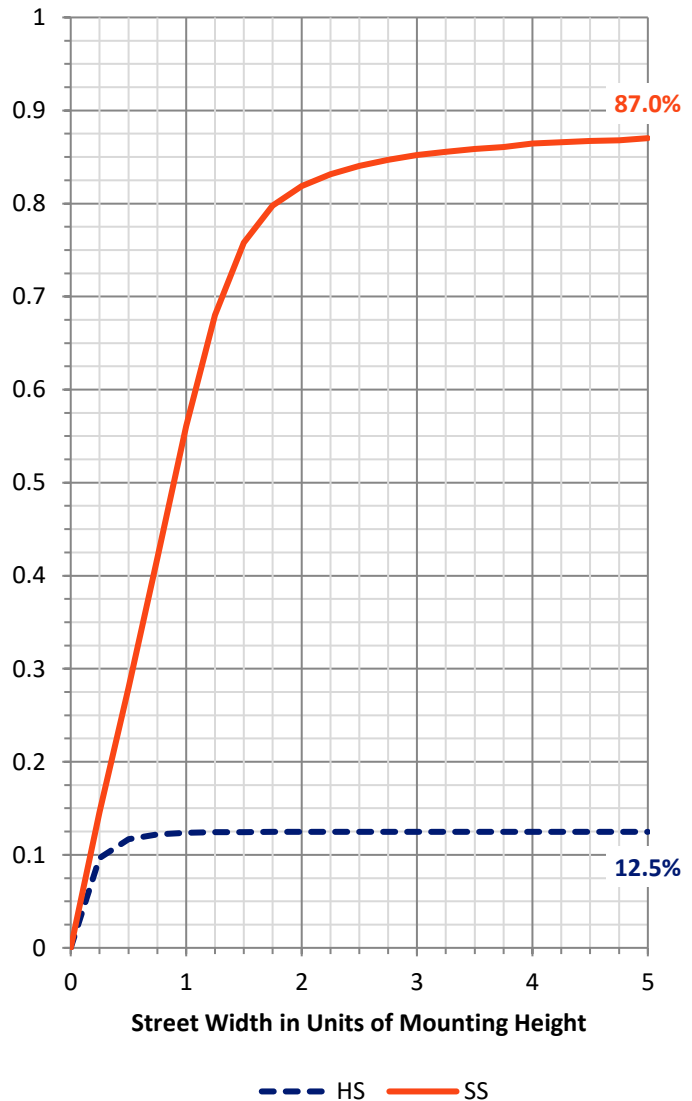
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1027.8 | 0.0 | 1027.8 |
| | % Fixture | 12.6 | 0.0 | 12.6 |
| Street Side | Lumens | 7139.0 | 0.0 | 7139.0 |
| | % Fixture | 87.4 | 0.0 | 87.4 |
| Total | Lumens | 8166.8 | 0.0 | 8166.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.8 | 2.1 |
| 10°-20° | 374.9 | 4.6 |
| 20°-30° | 533.1 | 6.5 |
| 30°-40° | 776.3 | 9.5 |
| 40°-50° | 1201.5 | 14.7 |
| 50°-60° | 1843.9 | 22.6 |
| 60°-70° | 1998.8 | 24.5 |
| 70°-80° | 1127.7 | 13.8 |
| 80°-90° | 141.7 | 1.7 |
| 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° | 8166.8 | 100.0 |
| 0°-180° | 8166.8 | 100.0 |

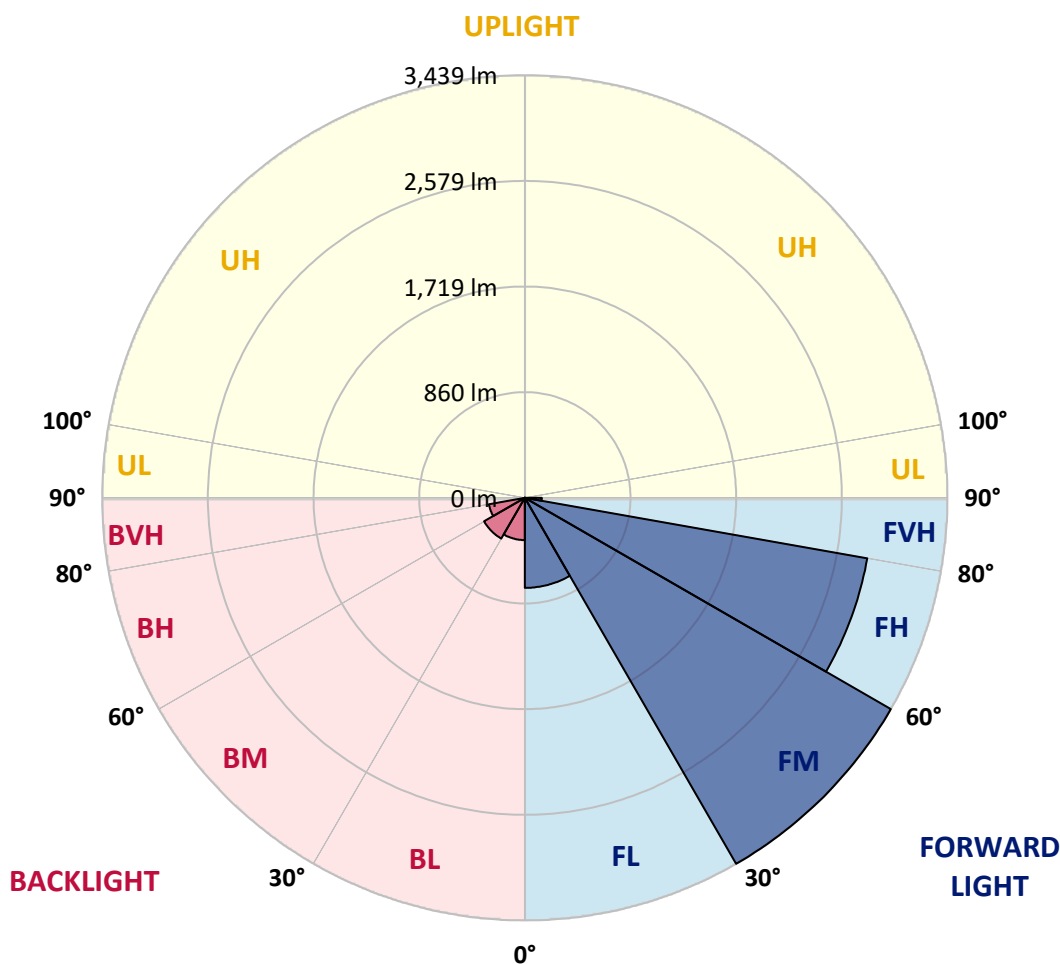


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 732.8 | 9.0 | | | |
| FM (30°-60°) | 3438.9 | 42.1 | | | |
| FH (60°-80°) | 2829.6 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 137.6 | 1.7 | | | G2/225 |
| BL (0°-30°) | 344.0 | 4.2 | B1/500 | | |
| BM (30°-60°) | 382.8 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 296.9 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.1 | 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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 |
| 2.5° | 1916.6 | 1926.4 | 1940.2 | 1959.9 | 1973.6 | 1965.8 | 1971.7 | 2005.1 | 1987.4 | 2003.2 | 1995.3 |
| 5° | 1810.3 | 1820.2 | 1839.8 | 1837.9 | 1853.6 | 1883.1 | 1922.5 | 1965.8 | 1946.1 | 1993.3 | 2011.0 |
| 7.5° | 1700.1 | 1696.2 | 1696.2 | 1737.5 | 1771.0 | 1812.3 | 1833.9 | 1904.8 | 1906.7 | 1948.1 | 1991.4 |
| 10° | 1599.8 | 1611.6 | 1631.3 | 1647.0 | 1678.5 | 1737.5 | 1800.5 | 1855.6 | 1877.2 | 1959.9 | 1971.7 |
| 12.5° | 1538.8 | 1544.7 | 1568.3 | 1582.1 | 1623.4 | 1680.5 | 1747.4 | 1818.2 | 1835.9 | 1920.5 | 1977.6 |
| 15° | 1513.2 | 1527.0 | 1534.8 | 1560.4 | 1582.1 | 1635.2 | 1684.4 | 1765.1 | 1816.2 | 1883.1 | 1954.0 |
| 17.5° | 1532.9 | 1527.0 | 1530.9 | 1538.8 | 1564.4 | 1611.6 | 1664.7 | 1745.4 | 1763.1 | 1875.3 | 1981.5 |
| 20° | 1558.5 | 1560.4 | 1548.6 | 1544.7 | 1538.8 | 1584.0 | 1627.3 | 1731.6 | 1751.3 | 1875.3 | 1999.2 |
| 22.5° | 1627.3 | 1605.7 | 1627.3 | 1595.8 | 1564.4 | 1584.0 | 1625.4 | 1733.6 | 1747.4 | 1873.3 | 2016.9 |
| 25° | 1711.9 | 1715.9 | 1721.8 | 1654.9 | 1609.6 | 1595.8 | 1639.1 | 1739.5 | 1751.3 | 1889.0 | 2024.8 |
| 27.5° | 1832.0 | 1849.7 | 1820.2 | 1786.7 | 1696.2 | 1627.3 | 1637.2 | 1735.5 | 1757.2 | 1881.2 | 2044.5 |
| 30° | 1993.3 | 1979.5 | 1983.5 | 1906.7 | 1818.2 | 1710.0 | 1682.4 | 1745.4 | 1761.1 | 1891.0 | 2081.9 |
| 32.5° | 2133.0 | 2117.3 | 2144.8 | 2117.3 | 1977.6 | 1828.0 | 1735.5 | 1765.1 | 1782.8 | 1914.6 | 2113.4 |
| 35° | 2219.6 | 2239.3 | 2282.6 | 2312.1 | 2194.0 | 1981.5 | 1824.1 | 1818.2 | 1826.1 | 1926.4 | 2137.0 |
| 37.5° | 2353.4 | 2388.8 | 2424.3 | 2499.0 | 2396.7 | 2170.4 | 1963.8 | 1887.1 | 1873.3 | 1983.5 | 2148.8 |
| 40° | 2499.0 | 2489.2 | 2593.5 | 2682.0 | 2678.1 | 2436.1 | 2158.6 | 2009.1 | 1989.4 | 2074.0 | 2227.5 |
| 42.5° | 2621.0 | 2611.2 | 2727.3 | 2872.9 | 2888.6 | 2691.9 | 2381.0 | 2182.2 | 2164.5 | 2213.7 | 2323.9 |
| 45° | 2780.4 | 2788.3 | 2926.0 | 3099.2 | 3156.3 | 3030.3 | 2682.0 | 2430.2 | 2420.3 | 2404.6 | 2506.9 |
| 47.5° | 2922.1 | 2965.4 | 3083.5 | 3288.1 | 3494.7 | 3380.6 | 3036.2 | 2792.2 | 2723.4 | 2687.9 | 2790.3 |
| 50° | 3020.5 | 3059.8 | 3203.5 | 3421.9 | 3799.7 | 3872.5 | 3433.7 | 3177.9 | 3179.9 | 3093.3 | 3148.4 |
| 52.5° | 3020.5 | 3018.5 | 3134.6 | 3421.9 | 4012.2 | 4386.1 | 3965.0 | 3663.9 | 3679.7 | 3589.2 | 3593.1 |
| 55° | 2729.3 | 2723.4 | 2865.0 | 3170.0 | 3988.6 | 4880.0 | 4769.8 | 4279.8 | 4240.5 | 4065.4 | 4083.1 |
| 57.5° | 2198.0 | 2211.7 | 2320.0 | 2686.0 | 3681.6 | 5110.2 | 5728.1 | 4972.5 | 4838.7 | 4476.6 | 4476.6 |
| 60° | 1603.7 | 1591.9 | 1672.6 | 1928.4 | 2949.6 | 5023.6 | 6515.2 | 5789.1 | 5578.6 | 4817.0 | 4765.9 |
| 62.5° | 1220.0 | 1218.0 | 1239.7 | 1326.3 | 1871.3 | 4380.2 | 6853.7 | 6828.1 | 6485.7 | 5151.6 | 5078.7 |
| 65° | 985.8 | 989.8 | 1019.3 | 1080.3 | 1143.3 | 2987.0 | 6674.6 | 8067.7 | 7754.9 | 5649.4 | 5411.3 |
| 67.5° | 804.8 | 814.6 | 850.1 | 981.9 | 968.1 | 1546.6 | 5684.8 | 8778.1 | 8837.1 | 6408.9 | 5858.0 |
| 70° | 619.8 | 635.6 | 676.9 | 863.8 | 932.7 | 1029.1 | 3941.4 | 8423.9 | 8581.3 | 6881.2 | 5588.4 |
| 72.5° | 421.1 | 419.1 | 507.7 | 700.5 | 942.5 | 942.5 | 2194.0 | 6784.8 | 6934.3 | 6344.0 | 4854.4 |
| 75° | 228.3 | 242.0 | 336.5 | 529.3 | 863.8 | 911.1 | 1249.5 | 4964.6 | 5175.2 | 4933.1 | 3754.5 |
| 77.5° | 124.0 | 125.9 | 186.9 | 346.3 | 718.2 | 869.7 | 834.3 | 3376.6 | 3459.3 | 2975.2 | 2056.3 |
| 80° | 64.9 | 66.9 | 98.4 | 226.3 | 495.9 | 806.8 | 694.6 | 2013.0 | 1934.3 | 1141.3 | 678.9 |
| 82.5° | 29.5 | 31.5 | 49.2 | 141.7 | 316.8 | 635.6 | 600.2 | 972.1 | 897.3 | 318.8 | 206.6 |
| 85° | 11.8 | 11.8 | 21.6 | 84.6 | 185.0 | 312.9 | 513.6 | 488.0 | 407.3 | 96.4 | 102.3 |
| 87.5° | 3.9 | 3.9 | 5.9 | 33.5 | 74.8 | 186.9 | 273.5 | 257.8 | 177.1 | 35.4 | 55.1 |
| 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° | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 | 2003.2 |
| 2.5° | 1987.4 | 2009.1 | 2003.2 | 1999.2 | 1961.8 | 1957.9 | 1954.0 | 1918.5 | 1930.4 | 1900.8 | 1920.5 |
| 5° | 1999.2 | 2011.0 | 1979.5 | 1920.5 | 1867.4 | 1808.4 | 1763.1 | 1731.6 | 1674.5 | 1652.9 | 1649.0 |
| 7.5° | 1987.4 | 1987.4 | 1922.5 | 1828.0 | 1723.7 | 1627.3 | 1505.3 | 1418.7 | 1353.8 | 1304.6 | 1322.3 |
| 10° | 1971.7 | 1948.1 | 1881.2 | 1713.9 | 1525.0 | 1379.4 | 1204.3 | 1076.4 | 979.9 | 948.5 | 928.8 |
| 12.5° | 1971.7 | 1930.4 | 1780.8 | 1552.5 | 1308.5 | 1088.2 | 879.6 | 712.3 | 619.8 | 564.7 | 556.9 |
| 15° | 1954.0 | 1893.0 | 1708.0 | 1401.0 | 1098.0 | 798.9 | 560.8 | 417.2 | 338.5 | 316.8 | 308.9 |
| 17.5° | 1957.9 | 1885.1 | 1599.8 | 1222.0 | 852.0 | 531.3 | 342.4 | 263.7 | 244.0 | 234.2 | 236.1 |
| 20° | 1965.8 | 1885.1 | 1503.4 | 1046.8 | 613.9 | 330.6 | 236.1 | 222.4 | 212.5 | 208.6 | 210.5 |
| 22.5° | 1991.4 | 1847.7 | 1405.0 | 867.8 | 415.2 | 238.1 | 208.6 | 194.8 | 186.9 | 181.0 | 179.1 |
| 25° | 1995.3 | 1841.8 | 1310.5 | 690.7 | 285.3 | 200.7 | 183.0 | 167.3 | 157.4 | 149.5 | 147.6 |
| 27.5° | 1989.4 | 1816.2 | 1178.7 | 513.6 | 214.5 | 179.1 | 155.5 | 139.7 | 125.9 | 120.0 | 118.1 |
| 30° | 2011.0 | 1769.0 | 1066.5 | 369.9 | 181.0 | 155.5 | 131.8 | 114.1 | 102.3 | 94.5 | 94.5 |
| 32.5° | 2013.0 | 1727.7 | 942.5 | 263.7 | 165.3 | 137.7 | 112.2 | 92.5 | 80.7 | 76.7 | 76.7 |
| 35° | 2015.0 | 1690.3 | 804.8 | 200.7 | 147.6 | 118.1 | 92.5 | 76.7 | 68.9 | 63.0 | 63.0 |
| 37.5° | 2020.9 | 1662.7 | 678.9 | 169.2 | 131.8 | 100.4 | 76.7 | 63.0 | 55.1 | 53.1 | 53.1 |
| 40° | 2032.7 | 1625.4 | 547.0 | 149.5 | 114.1 | 84.6 | 64.9 | 53.1 | 45.3 | 43.3 | 41.3 |
| 42.5° | 2064.2 | 1615.5 | 436.8 | 133.8 | 102.3 | 70.8 | 53.1 | 43.3 | 37.4 | 33.5 | 31.5 |
| 45° | 2194.0 | 1641.1 | 338.5 | 124.0 | 86.6 | 59.0 | 45.3 | 35.4 | 27.5 | 25.6 | 23.6 |
| 47.5° | 2406.6 | 1725.7 | 267.6 | 110.2 | 72.8 | 49.2 | 37.4 | 27.5 | 21.6 | 19.7 | 17.7 |
| 50° | 2729.3 | 1918.5 | 218.4 | 98.4 | 61.0 | 41.3 | 29.5 | 21.6 | 15.7 | 13.8 | 13.8 |
| 52.5° | 3152.3 | 2178.3 | 188.9 | 86.6 | 49.2 | 35.4 | 23.6 | 15.7 | 11.8 | 9.8 | 9.8 |
| 55° | 3585.2 | 2485.3 | 177.1 | 74.8 | 41.3 | 29.5 | 17.7 | 11.8 | 7.9 | 5.9 | 5.9 |
| 57.5° | 3982.7 | 2684.0 | 171.2 | 61.0 | 35.4 | 21.6 | 13.8 | 7.9 | 3.9 | 2.0 | 2.0 |
| 60° | 4230.6 | 2829.6 | 153.5 | 49.2 | 27.5 | 17.7 | 9.8 | 3.9 | 2.0 | 0.0 | 0.0 |
| 62.5° | 4557.3 | 2977.2 | 125.9 | 37.4 | 19.7 | 11.8 | 5.9 | 2.0 | 0.0 | 0.0 | 0.0 |
| 65° | 4988.2 | 3142.5 | 98.4 | 29.5 | 15.7 | 7.9 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5194.8 | 3055.9 | 66.9 | 21.6 | 9.8 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4781.6 | 2573.8 | 47.2 | 15.7 | 5.9 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4020.1 | 2016.9 | 35.4 | 9.8 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2963.4 | 1261.3 | 27.5 | 7.9 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1572.2 | 470.3 | 19.7 | 5.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 464.4 | 137.7 | 13.8 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 153.5 | 41.3 | 7.9 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 78.7 | 15.7 | 3.9 | 3.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 45.3 | 5.9 | 3.9 | 3.9 | 2.0 | 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)