

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: P675685

Luminaire Tested: **CCW-SA-2D-730-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675685
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-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

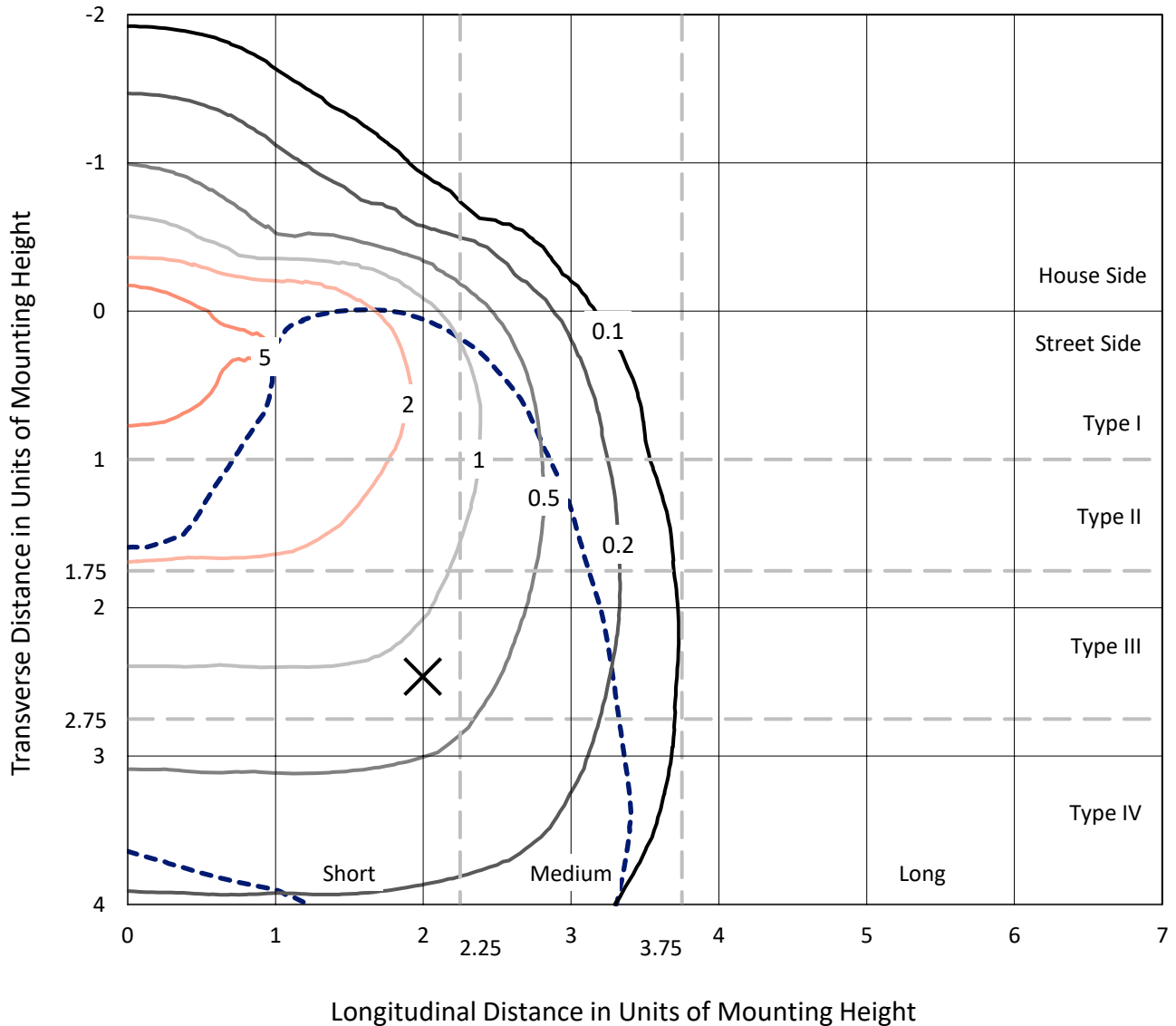
Lumens per Lamp: N/A
Luminaire Lumens: 9951.8 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

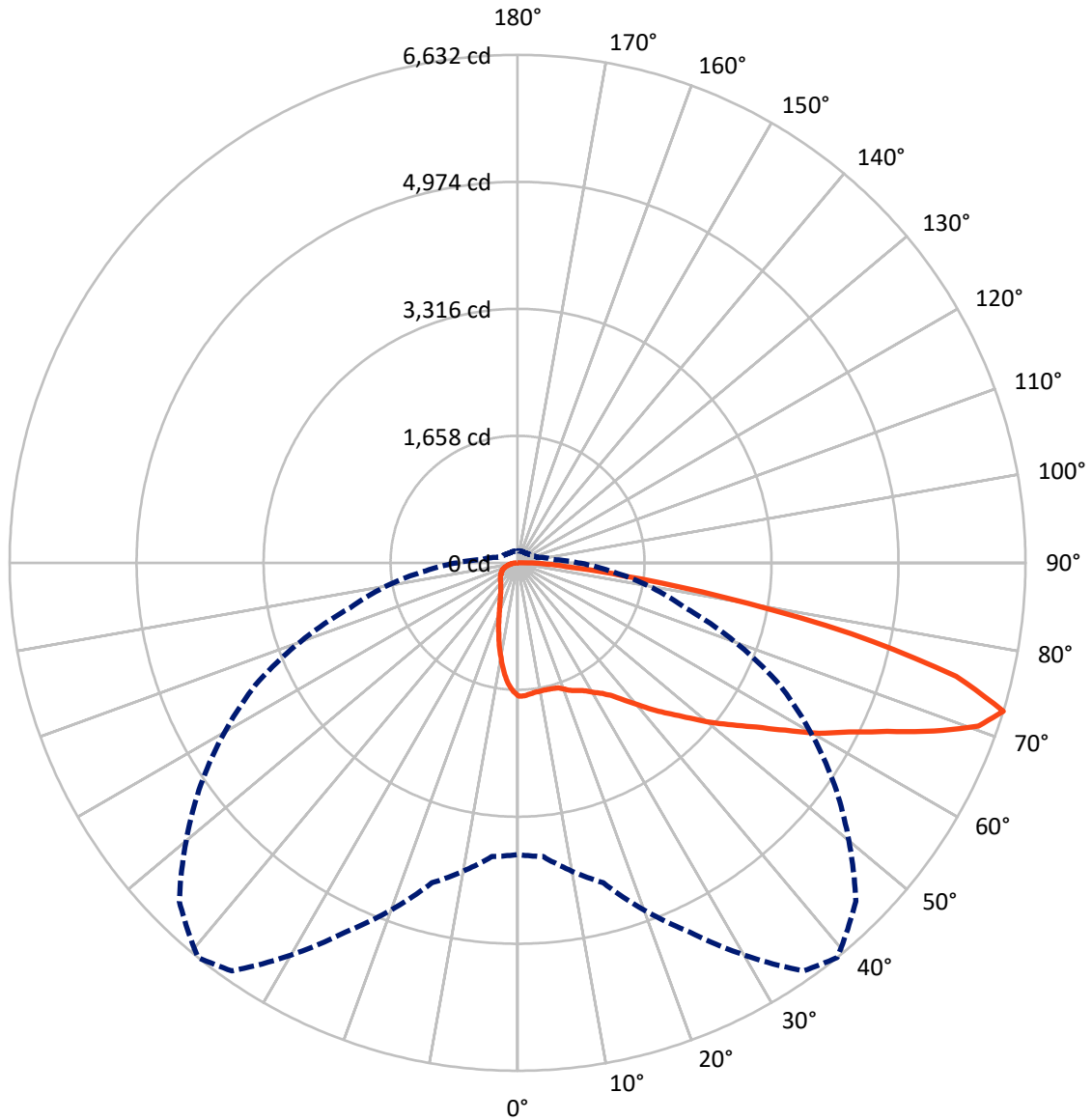
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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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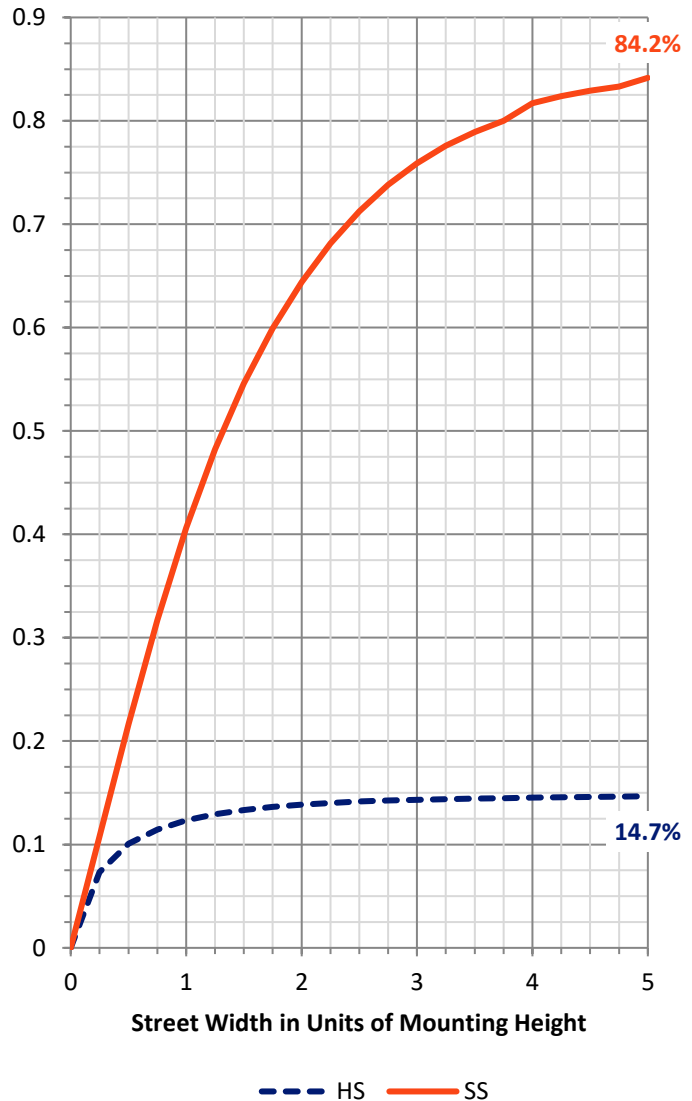
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1479.0 | 0.0 | 1479.0 |
| | % Fixture | 14.9 | 0.0 | 14.9 |
| Street Side | Lumens | 8472.8 | 0.0 | 8472.8 |
| | % Fixture | 85.1 | 0.0 | 85.1 |
| Total | Lumens | 9951.8 | 0.0 | 9951.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.9 | 1.5 |
| 10°-20° | 392.9 | 3.9 |
| 20°-30° | 598.5 | 6.0 |
| 30°-40° | 875.5 | 8.8 |
| 40°-50° | 1340.5 | 13.5 |
| 50°-60° | 1966.0 | 19.8 |
| 60°-70° | 2507.3 | 25.2 |
| 70°-80° | 1811.6 | 18.2 |
| 80°-90° | 305.6 | 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° | 9951.8 | 100.0 |
| 0°-180° | 9951.8 | 100.0 |

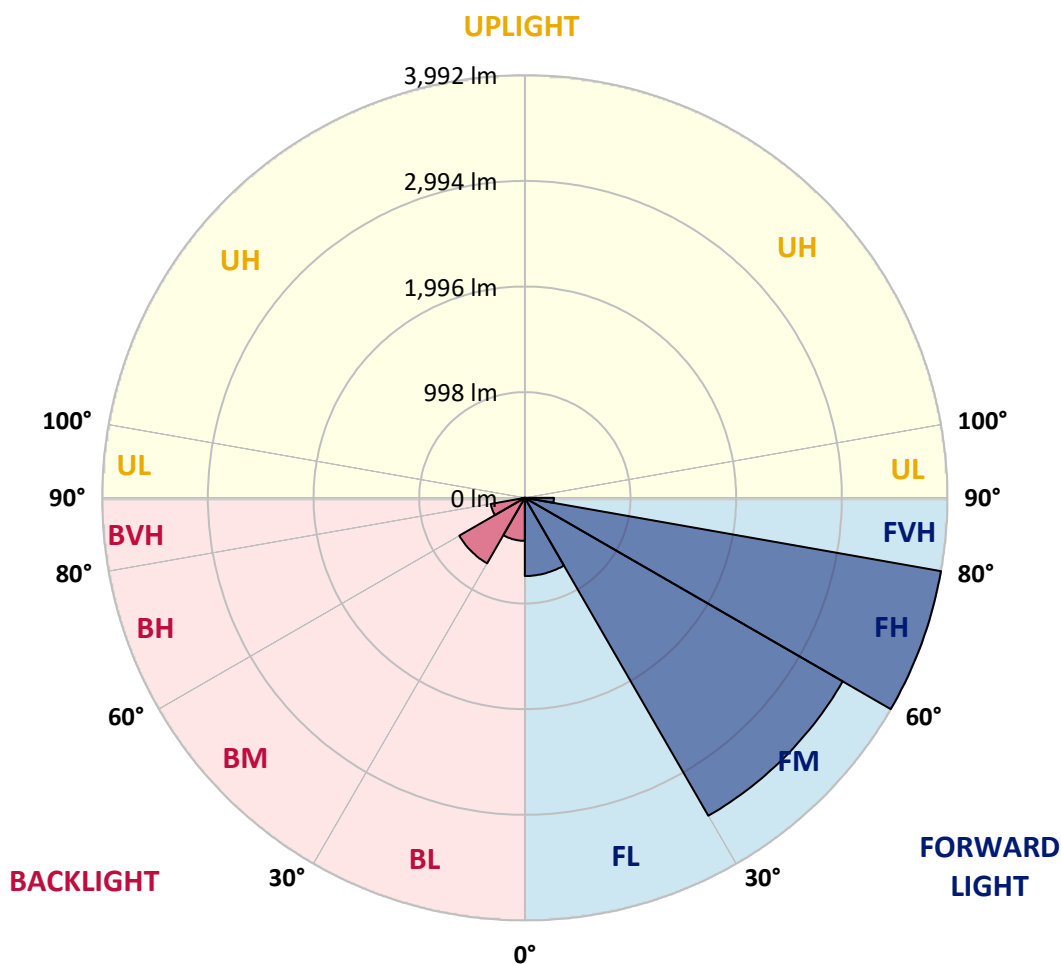


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 738.6 | 7.4 | | | |
| FM (30°-60°) | 3467.5 | 34.8 | | | |
| FH (60°-80°) | 3992.1 | 40.1 | | | G2/5000 |
| FVH (80°-90°) | 274.6 | 2.8 | | | G3/500 |
| BL (0°-30°) | 406.8 | 4.1 | B1/500 | | |
| BM (30°-60°) | 714.5 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 326.8 | 3.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 31.0 | 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° | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 |
| 2.5° | 1768.2 | 1771.9 | 1764.4 | 1757.0 | 1753.2 | 1738.3 | 1753.2 | 1745.7 | 1738.3 | 1738.3 | 1738.3 |
| 5° | 1745.7 | 1749.5 | 1749.5 | 1742.0 | 1745.7 | 1719.6 | 1715.8 | 1719.6 | 1708.4 | 1700.9 | 1697.1 |
| 7.5° | 1712.1 | 1719.6 | 1734.5 | 1730.8 | 1715.8 | 1704.6 | 1708.4 | 1704.6 | 1685.9 | 1674.7 | 1644.8 |
| 10° | 1685.9 | 1693.4 | 1700.9 | 1708.4 | 1704.6 | 1700.9 | 1697.1 | 1682.2 | 1678.5 | 1652.3 | 1622.4 |
| 12.5° | 1659.8 | 1659.8 | 1663.5 | 1693.4 | 1697.1 | 1697.1 | 1674.7 | 1674.7 | 1663.5 | 1659.8 | 1614.9 |
| 15° | 1633.6 | 1644.8 | 1674.7 | 1682.2 | 1697.1 | 1704.6 | 1693.4 | 1693.4 | 1674.7 | 1648.6 | 1614.9 |
| 17.5° | 1641.1 | 1659.8 | 1689.7 | 1708.4 | 1715.8 | 1715.8 | 1730.8 | 1719.6 | 1693.4 | 1678.5 | 1644.8 |
| 20° | 1678.5 | 1682.2 | 1719.6 | 1753.2 | 1760.7 | 1760.7 | 1745.7 | 1734.5 | 1715.8 | 1689.7 | 1644.8 |
| 22.5° | 1700.9 | 1727.1 | 1771.9 | 1790.6 | 1813.0 | 1813.0 | 1794.3 | 1768.2 | 1742.0 | 1715.8 | 1667.2 |
| 25° | 1798.1 | 1801.8 | 1820.5 | 1850.4 | 1861.6 | 1846.7 | 1828.0 | 1798.1 | 1764.4 | 1738.3 | 1693.4 |
| 27.5° | 1865.4 | 1884.1 | 1906.5 | 1921.4 | 1902.7 | 1891.5 | 1876.6 | 1842.9 | 1816.8 | 1794.3 | 1730.8 |
| 30° | 1988.7 | 1966.3 | 1981.3 | 1988.7 | 1955.1 | 1962.6 | 1921.4 | 1891.5 | 1861.6 | 1861.6 | 1790.6 |
| 32.5° | 2063.5 | 2082.2 | 2067.2 | 2063.5 | 2037.3 | 2033.6 | 2007.4 | 1973.8 | 1955.1 | 1977.5 | 1880.3 |
| 35° | 2194.3 | 2183.1 | 2183.1 | 2179.4 | 2149.5 | 2130.8 | 2130.8 | 2071.0 | 2089.7 | 2138.3 | 2018.6 |
| 37.5° | 2261.6 | 2257.9 | 2280.3 | 2299.0 | 2269.1 | 2280.3 | 2269.1 | 2242.9 | 2250.4 | 2336.4 | 2190.6 |
| 40° | 2328.9 | 2355.1 | 2399.9 | 2407.4 | 2426.1 | 2441.1 | 2433.6 | 2429.8 | 2459.7 | 2598.1 | 2422.4 |
| 42.5° | 2392.5 | 2414.9 | 2482.2 | 2542.0 | 2586.8 | 2635.4 | 2639.2 | 2639.2 | 2736.4 | 2934.5 | 2702.7 |
| 45° | 2474.7 | 2493.4 | 2586.8 | 2706.5 | 2781.2 | 2814.9 | 2844.8 | 2878.4 | 3009.3 | 3244.8 | 3001.8 |
| 47.5° | 2586.8 | 2601.8 | 2713.9 | 2863.5 | 3009.3 | 3028.0 | 3087.8 | 3125.1 | 3323.3 | 3562.5 | 3308.3 |
| 50° | 2747.6 | 2736.4 | 2826.1 | 3042.9 | 3185.0 | 3274.7 | 3360.7 | 3427.9 | 3622.3 | 3884.0 | 3547.6 |
| 52.5° | 2878.4 | 2878.4 | 2945.7 | 3233.6 | 3427.9 | 3513.9 | 3603.6 | 3697.1 | 3921.4 | 4205.5 | 3741.9 |
| 55° | 3102.7 | 3080.3 | 3121.4 | 3420.5 | 3700.8 | 3783.1 | 3955.0 | 4033.5 | 4250.3 | 4444.7 | 3906.4 |
| 57.5° | 3256.0 | 3267.2 | 3315.8 | 3667.2 | 4022.3 | 4123.2 | 4295.2 | 4351.3 | 4541.9 | 4695.2 | 4026.1 |
| 60° | 3457.8 | 3420.5 | 3525.1 | 3940.1 | 4377.4 | 4519.5 | 4661.5 | 4695.2 | 4837.2 | 4855.9 | 4082.1 |
| 62.5° | 3652.2 | 3644.8 | 3734.5 | 4213.0 | 4758.7 | 4859.7 | 5005.5 | 5042.8 | 5102.7 | 4983.0 | 4003.6 |
| 65° | 3771.9 | 3820.5 | 3988.7 | 4512.0 | 5192.4 | 5304.5 | 5450.3 | 5375.5 | 5308.3 | 4870.9 | 3618.6 |
| 67.5° | 3936.3 | 3958.8 | 4216.7 | 4837.2 | 5693.3 | 5861.5 | 5988.6 | 5693.3 | 5192.4 | 4411.1 | 3046.6 |
| 70° | 3973.7 | 4033.5 | 4370.0 | 5177.4 | 6209.2 | 6381.1 | 6388.6 | 5584.9 | 4770.0 | 3588.7 | 2209.3 |
| 72.5° | 3809.2 | 3850.4 | 4325.1 | 5319.5 | 6504.5 | 6631.6 | 6246.5 | 5050.3 | 3779.3 | 2261.6 | 1203.7 |
| 75° | 3203.6 | 3319.5 | 3764.4 | 4882.1 | 5962.4 | 5913.8 | 5293.3 | 3854.1 | 2269.1 | 1001.8 | 508.4 |
| 77.5° | 2231.7 | 2235.4 | 2699.0 | 3551.3 | 4463.4 | 4452.2 | 3775.6 | 2235.4 | 971.9 | 403.7 | 299.1 |
| 80° | 990.6 | 1061.7 | 1342.0 | 1914.0 | 2710.2 | 2710.2 | 2201.8 | 1110.2 | 486.0 | 261.7 | 205.6 |
| 82.5° | 583.2 | 605.6 | 717.7 | 893.4 | 1319.6 | 1390.6 | 1054.2 | 740.2 | 332.7 | 164.5 | 127.1 |
| 85° | 429.9 | 467.3 | 534.6 | 538.3 | 624.3 | 635.5 | 583.2 | 643.0 | 228.0 | 89.7 | 104.7 |
| 87.5° | 321.5 | 343.9 | 426.2 | 355.1 | 332.7 | 314.0 | 358.9 | 657.9 | 86.0 | 44.9 | 33.6 |
| 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° | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 | 1742.0 |
| 2.5° | 1723.3 | 1723.3 | 1715.8 | 1700.9 | 1700.9 | 1671.0 | 1678.5 | 1685.9 | 1667.2 | 1667.2 | 1671.0 |
| 5° | 1697.1 | 1682.2 | 1663.5 | 1641.1 | 1626.1 | 1585.0 | 1577.5 | 1551.4 | 1547.6 | 1540.1 | 1528.9 |
| 7.5° | 1644.8 | 1622.4 | 1588.7 | 1555.1 | 1506.5 | 1469.1 | 1424.3 | 1386.9 | 1371.9 | 1360.7 | 1357.0 |
| 10° | 1596.2 | 1592.5 | 1536.4 | 1469.1 | 1394.4 | 1323.3 | 1256.0 | 1207.4 | 1177.5 | 1158.8 | 1155.1 |
| 12.5° | 1596.2 | 1566.3 | 1487.8 | 1394.4 | 1285.9 | 1181.3 | 1095.3 | 1028.0 | 986.9 | 957.0 | 945.8 |
| 15° | 1588.7 | 1558.8 | 1454.2 | 1312.1 | 1188.8 | 1046.7 | 927.1 | 856.1 | 796.2 | 766.3 | 770.1 |
| 17.5° | 1596.2 | 1551.4 | 1405.6 | 1252.3 | 1080.3 | 927.1 | 785.0 | 699.0 | 639.2 | 616.8 | 613.1 |
| 20° | 1600.0 | 1543.9 | 1368.2 | 1170.1 | 968.2 | 796.2 | 661.7 | 579.4 | 534.6 | 519.6 | 519.6 |
| 22.5° | 1592.5 | 1521.5 | 1312.1 | 1072.9 | 871.0 | 687.8 | 575.7 | 504.7 | 474.8 | 456.1 | 463.5 |
| 25° | 1626.1 | 1517.7 | 1259.8 | 990.6 | 758.9 | 598.1 | 512.1 | 459.8 | 441.1 | 429.9 | 433.6 |
| 27.5° | 1633.6 | 1517.7 | 1218.7 | 897.2 | 661.7 | 530.8 | 463.5 | 429.9 | 414.9 | 407.5 | 403.7 |
| 30° | 1663.5 | 1525.2 | 1170.1 | 803.7 | 583.2 | 478.5 | 426.2 | 407.5 | 396.3 | 392.5 | 392.5 |
| 32.5° | 1745.7 | 1547.6 | 1117.7 | 725.2 | 515.9 | 433.6 | 400.0 | 385.0 | 377.6 | 373.8 | 377.6 |
| 35° | 1842.9 | 1607.4 | 1061.7 | 643.0 | 467.3 | 403.7 | 377.6 | 366.3 | 362.6 | 362.6 | 362.6 |
| 37.5° | 1992.5 | 1697.1 | 1013.1 | 575.7 | 426.2 | 373.8 | 355.1 | 351.4 | 347.7 | 351.4 | 351.4 |
| 40° | 2164.4 | 1794.3 | 968.2 | 523.3 | 396.3 | 355.1 | 336.4 | 336.4 | 332.7 | 336.4 | 340.2 |
| 42.5° | 2362.5 | 1914.0 | 923.3 | 471.0 | 370.1 | 340.2 | 325.2 | 321.5 | 317.7 | 325.2 | 329.0 |
| 45° | 2635.4 | 2078.4 | 893.4 | 441.1 | 351.4 | 325.2 | 310.3 | 310.3 | 306.5 | 306.5 | 314.0 |
| 47.5° | 2863.5 | 2235.4 | 893.4 | 411.2 | 340.2 | 314.0 | 299.1 | 299.1 | 291.6 | 295.3 | 295.3 |
| 50° | 3054.1 | 2370.0 | 912.1 | 403.7 | 325.2 | 302.8 | 291.6 | 284.1 | 280.4 | 280.4 | 280.4 |
| 52.5° | 3181.2 | 2452.3 | 927.1 | 396.3 | 317.7 | 287.8 | 280.4 | 276.6 | 269.2 | 265.4 | 269.2 |
| 55° | 3308.3 | 2508.3 | 930.8 | 396.3 | 306.5 | 272.9 | 265.4 | 265.4 | 257.9 | 254.2 | 254.2 |
| 57.5° | 3356.9 | 2485.9 | 878.5 | 388.8 | 299.1 | 261.7 | 254.2 | 250.5 | 246.7 | 243.0 | 243.0 |
| 60° | 3334.5 | 2403.7 | 762.6 | 370.1 | 291.6 | 254.2 | 239.2 | 239.2 | 239.2 | 231.8 | 235.5 |
| 62.5° | 3181.2 | 2123.3 | 613.1 | 340.2 | 280.4 | 239.2 | 224.3 | 231.8 | 231.8 | 228.0 | 228.0 |
| 65° | 2777.5 | 1753.2 | 497.2 | 314.0 | 265.4 | 228.0 | 213.1 | 224.3 | 228.0 | 224.3 | 220.6 |
| 67.5° | 2220.5 | 1349.5 | 411.2 | 284.1 | 246.7 | 209.3 | 198.1 | 209.3 | 213.1 | 209.3 | 209.3 |
| 70° | 1525.2 | 871.0 | 332.7 | 254.2 | 220.6 | 190.6 | 179.4 | 186.9 | 186.9 | 190.6 | 190.6 |
| 72.5° | 788.8 | 471.0 | 272.9 | 216.8 | 190.6 | 172.0 | 160.7 | 160.7 | 157.0 | 157.0 | 157.0 |
| 75° | 392.5 | 321.5 | 228.0 | 183.2 | 160.7 | 145.8 | 138.3 | 130.8 | 130.8 | 130.8 | 130.8 |
| 77.5° | 272.9 | 246.7 | 186.9 | 145.8 | 130.8 | 119.6 | 119.6 | 108.4 | 108.4 | 108.4 | 108.4 |
| 80° | 205.6 | 194.4 | 142.1 | 112.1 | 100.9 | 93.5 | 93.5 | 89.7 | 89.7 | 86.0 | 86.0 |
| 82.5° | 145.8 | 157.0 | 108.4 | 82.2 | 74.8 | 71.0 | 71.0 | 67.3 | 67.3 | 59.8 | 59.8 |
| 85° | 115.9 | 130.8 | 82.2 | 59.8 | 56.1 | 48.6 | 48.6 | 44.9 | 44.9 | 41.1 | 37.4 |
| 87.5° | 33.6 | 71.0 | 33.6 | 22.4 | 22.4 | 22.4 | 22.4 | 18.7 | 18.7 | 15.0 | 15.0 |
| 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)