

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: P674966

Luminaire Tested: **CCW-SA-2E-730-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674966
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-730-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

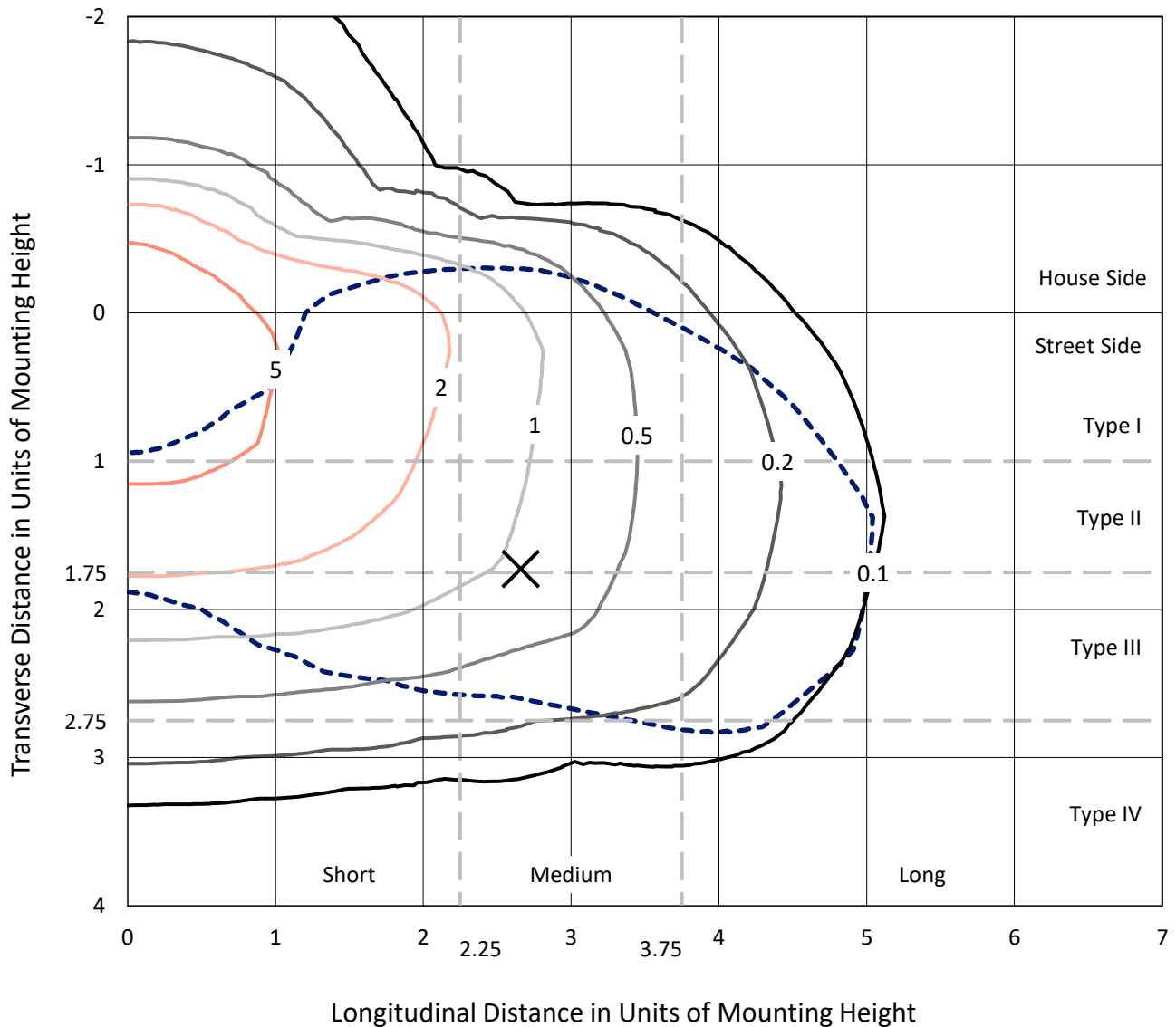
Lumens per Lamp: N/A
Luminaire Lumens: 12580 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
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

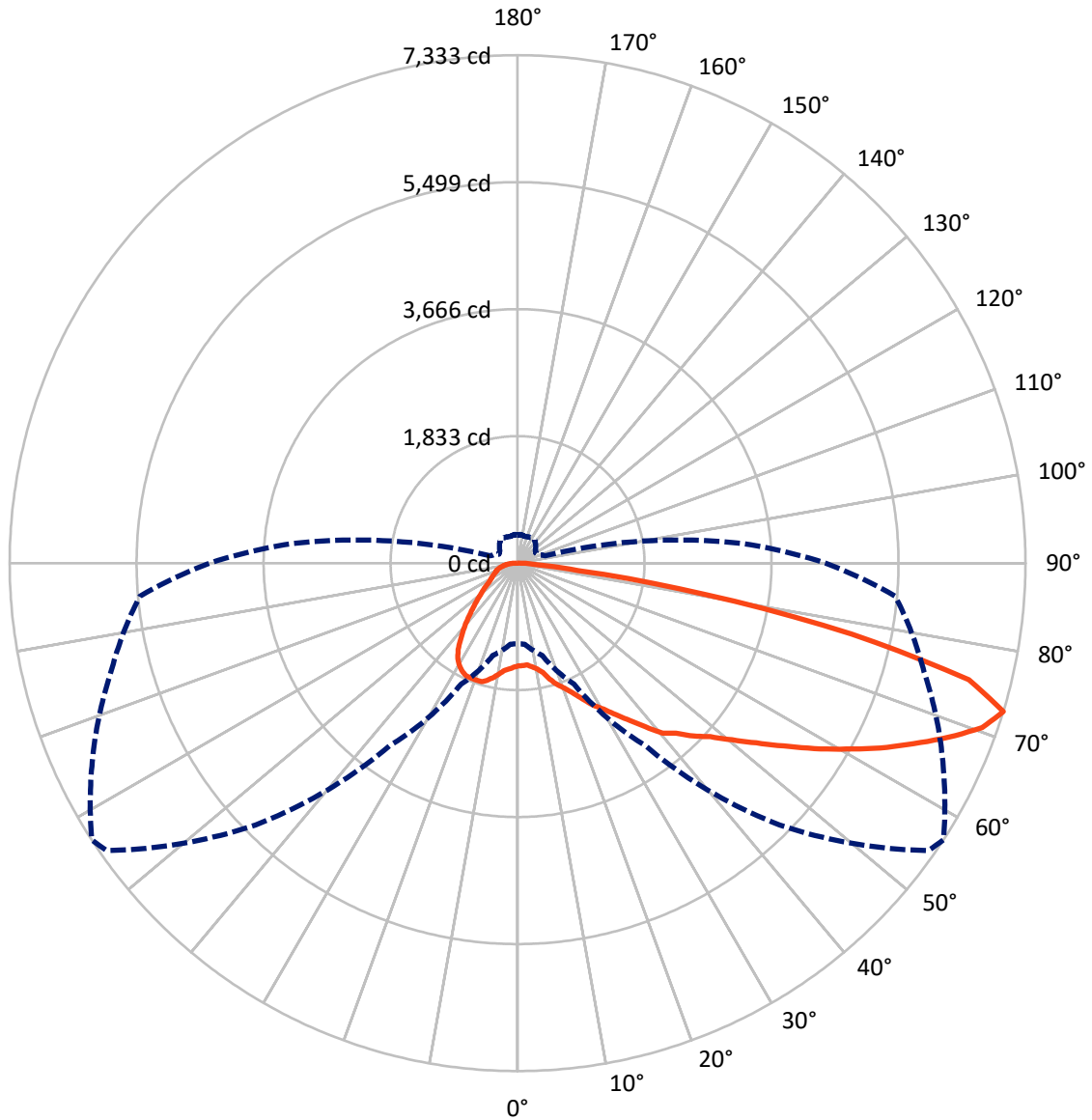
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2937.9 | 0.0 | 2937.9 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 9642.1 | 0.0 | 9642.1 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 12580.0 | 0.0 | 12580.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 147.4 | 1.2 |
| 10°-20° | 496.7 | 3.9 |
| 20°-30° | 908.0 | 7.2 |
| 30°-40° | 1332.2 | 10.6 |
| 40°-50° | 1834.2 | 14.6 |
| 50°-60° | 2515.3 | 20.0 |
| 60°-70° | 3032.1 | 24.1 |
| 70°-80° | 2019.8 | 16.1 |
| 80°-90° | 294.2 | 2.3 |
| 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° | 12580.0 | 100.0 |
| 0°-180° | 12580.0 | 100.0 |



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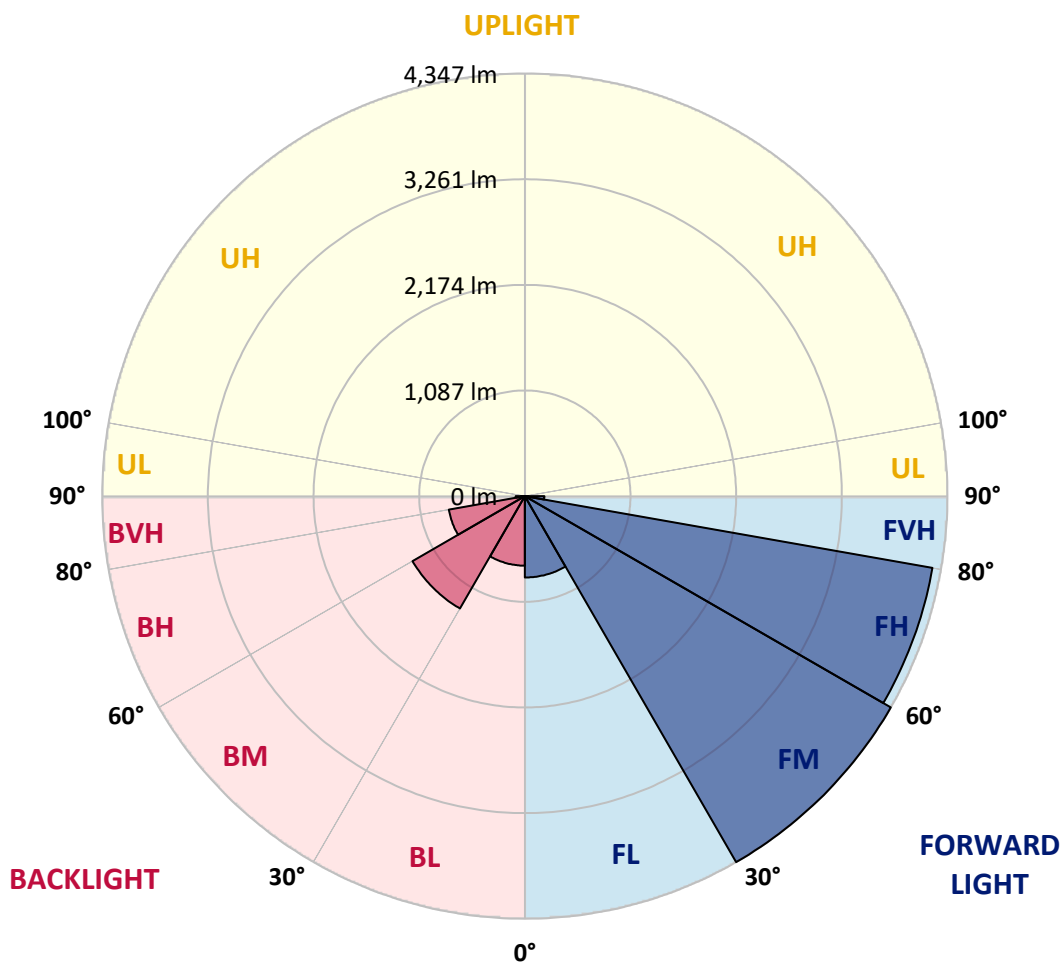
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 836.9 | 6.7 | | | |
| FM (30°-60°) | 4347.4 | 34.6 | | | |
| FH (60°-80°) | 4257.5 | 33.8 | | | G2/5000 |
| FVH (80°-90°) | 200.3 | 1.6 | | | G2/225 |
| BL (0°-30°) | 715.3 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 1334.4 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 794.3 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 93.9 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 |
| 2.5° | 1457.3 | 1461.9 | 1471.1 | 1466.5 | 1466.5 | 1452.8 | 1475.7 | 1480.3 | 1471.1 | 1475.7 | 1484.8 |
| 5° | 1457.3 | 1466.5 | 1480.3 | 1471.1 | 1475.7 | 1471.1 | 1461.9 | 1475.7 | 1475.7 | 1480.3 | 1494.0 |
| 7.5° | 1535.3 | 1530.7 | 1530.7 | 1516.9 | 1512.3 | 1507.8 | 1512.3 | 1512.3 | 1503.2 | 1507.8 | 1507.8 |
| 10° | 1622.3 | 1622.3 | 1613.2 | 1613.2 | 1604.0 | 1581.1 | 1558.2 | 1553.6 | 1539.8 | 1544.4 | 1544.4 |
| 12.5° | 1714.0 | 1723.1 | 1732.3 | 1704.8 | 1695.6 | 1659.0 | 1645.2 | 1617.7 | 1617.7 | 1608.6 | 1604.0 |
| 15° | 1828.6 | 1814.8 | 1824.0 | 1814.8 | 1791.9 | 1755.2 | 1732.3 | 1736.9 | 1704.8 | 1695.6 | 1681.9 |
| 17.5° | 1929.4 | 1934.0 | 1920.2 | 1911.0 | 1869.8 | 1842.3 | 1846.9 | 1842.3 | 1801.1 | 1787.3 | 1764.4 |
| 20° | 2048.5 | 2043.9 | 2043.9 | 2016.4 | 1979.8 | 1943.1 | 1929.4 | 1924.8 | 1934.0 | 1906.5 | 1851.5 |
| 22.5° | 2172.3 | 2153.9 | 2153.9 | 2131.0 | 2080.6 | 2057.7 | 2048.5 | 2030.2 | 2039.4 | 2016.4 | 1934.0 |
| 25° | 2273.1 | 2273.1 | 2305.2 | 2259.3 | 2231.8 | 2186.0 | 2167.7 | 2172.3 | 2176.8 | 2131.0 | 2034.8 |
| 27.5° | 2406.0 | 2383.1 | 2415.2 | 2392.2 | 2378.5 | 2328.1 | 2305.2 | 2318.9 | 2309.7 | 2259.3 | 2126.4 |
| 30° | 2575.6 | 2580.1 | 2561.8 | 2529.7 | 2511.4 | 2474.7 | 2461.0 | 2447.2 | 2461.0 | 2396.8 | 2227.3 |
| 32.5° | 2786.4 | 2800.1 | 2754.3 | 2717.6 | 2685.5 | 2648.9 | 2621.4 | 2607.6 | 2621.4 | 2525.1 | 2305.2 |
| 35° | 3029.3 | 3043.0 | 3006.3 | 2965.1 | 2928.4 | 2836.8 | 2813.9 | 2790.9 | 2740.5 | 2584.7 | 2378.5 |
| 37.5° | 3253.8 | 3235.5 | 3226.3 | 3226.3 | 3157.6 | 3024.7 | 3010.9 | 2997.2 | 2900.9 | 2703.9 | 2479.3 |
| 40° | 3405.0 | 3428.0 | 3418.8 | 3409.6 | 3400.5 | 3276.7 | 3249.2 | 3226.3 | 3065.9 | 2882.6 | 2621.4 |
| 42.5° | 3574.6 | 3560.9 | 3597.5 | 3611.3 | 3579.2 | 3542.5 | 3432.5 | 3354.6 | 3212.6 | 3065.9 | 2832.2 |
| 45° | 3776.3 | 3767.1 | 3780.8 | 3831.3 | 3785.4 | 3799.2 | 3615.9 | 3560.9 | 3382.1 | 3295.1 | 3098.0 |
| 47.5° | 3955.0 | 3977.9 | 4046.6 | 4060.4 | 4023.7 | 4087.9 | 3831.3 | 3744.2 | 3629.6 | 3560.9 | 3373.0 |
| 50° | 4032.9 | 4060.4 | 4216.2 | 4312.4 | 4317.0 | 4417.9 | 4046.6 | 4010.0 | 3854.2 | 3881.7 | 3716.7 |
| 52.5° | 3968.7 | 4055.8 | 4243.7 | 4495.8 | 4651.6 | 4752.4 | 4330.8 | 4312.4 | 4170.4 | 4257.5 | 4092.5 |
| 55° | 4028.3 | 4110.8 | 4234.5 | 4587.4 | 4981.5 | 5004.5 | 4724.9 | 4656.2 | 4514.1 | 4633.2 | 4482.0 |
| 57.5° | 4055.8 | 4010.0 | 4243.7 | 4688.2 | 5224.4 | 5284.0 | 5100.7 | 5050.3 | 4940.3 | 5054.9 | 4967.8 |
| 60° | 3840.4 | 3895.4 | 4115.4 | 4660.7 | 5238.2 | 5581.9 | 5522.3 | 5449.0 | 5348.2 | 5453.6 | 5403.2 |
| 62.5° | 3597.5 | 3634.2 | 3872.5 | 4495.8 | 5316.1 | 5797.3 | 5930.2 | 5875.2 | 5733.1 | 5824.8 | 5911.9 |
| 65° | 3290.5 | 3295.1 | 3560.9 | 4202.5 | 5164.9 | 5921.0 | 6287.7 | 6283.1 | 6182.2 | 6159.3 | 6296.8 |
| 67.5° | 2914.7 | 2951.3 | 3162.2 | 3890.8 | 4958.6 | 6058.5 | 6640.5 | 6709.3 | 6507.6 | 6328.9 | 6379.3 |
| 70° | 2236.4 | 2273.1 | 2474.7 | 3189.7 | 4537.0 | 6017.3 | 7075.9 | 7112.6 | 6718.4 | 6264.7 | 6136.4 |
| 72.5° | 1164.0 | 1173.2 | 1379.4 | 1924.8 | 3217.2 | 5343.6 | 7236.3 | 7332.5 | 6773.4 | 6076.8 | 5471.9 |
| 75° | 385.0 | 385.0 | 472.0 | 733.3 | 1516.9 | 3418.8 | 6553.5 | 6727.6 | 6503.0 | 5609.4 | 4477.4 |
| 77.5° | 229.1 | 233.7 | 279.6 | 366.6 | 604.9 | 1365.7 | 4619.5 | 4926.5 | 5320.7 | 4770.7 | 3272.1 |
| 80° | 165.0 | 169.6 | 210.8 | 252.1 | 362.0 | 440.0 | 2318.9 | 2745.1 | 3267.6 | 3070.5 | 1746.1 |
| 82.5° | 123.7 | 123.7 | 165.0 | 187.9 | 247.5 | 261.2 | 646.2 | 884.5 | 1411.5 | 1099.9 | 481.2 |
| 85° | 128.3 | 128.3 | 128.3 | 132.9 | 169.6 | 151.2 | 270.4 | 288.7 | 412.5 | 362.0 | 132.9 |
| 87.5° | 45.8 | 50.4 | 128.3 | 87.1 | 87.1 | 64.2 | 105.4 | 114.6 | 146.7 | 151.2 | 50.4 |
| 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° | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 | 1484.8 |
| 2.5° | 1489.4 | 1489.4 | 1494.0 | 1494.0 | 1503.2 | 1512.3 | 1526.1 | 1516.9 | 1516.9 | 1521.5 | 1516.9 |
| 5° | 1484.8 | 1489.4 | 1503.2 | 1526.1 | 1535.3 | 1539.8 | 1567.3 | 1567.3 | 1567.3 | 1576.5 | 1576.5 |
| 7.5° | 1503.2 | 1512.3 | 1535.3 | 1558.2 | 1562.7 | 1576.5 | 1613.2 | 1622.3 | 1645.2 | 1654.4 | 1659.0 |
| 10° | 1549.0 | 1562.7 | 1581.1 | 1608.6 | 1626.9 | 1645.2 | 1672.7 | 1704.8 | 1700.2 | 1727.7 | 1732.3 |
| 12.5° | 1617.7 | 1613.2 | 1645.2 | 1672.7 | 1691.1 | 1718.6 | 1727.7 | 1727.7 | 1727.7 | 1727.7 | 1736.9 |
| 15° | 1672.7 | 1681.9 | 1709.4 | 1727.7 | 1750.6 | 1746.1 | 1727.7 | 1709.4 | 1714.0 | 1709.4 | 1709.4 |
| 17.5° | 1755.2 | 1755.2 | 1778.1 | 1782.7 | 1791.9 | 1746.1 | 1718.6 | 1718.6 | 1732.3 | 1732.3 | 1723.1 |
| 20° | 1837.7 | 1833.1 | 1842.3 | 1837.7 | 1778.1 | 1723.1 | 1718.6 | 1723.1 | 1727.7 | 1723.1 | 1718.6 |
| 22.5° | 1915.6 | 1906.5 | 1892.7 | 1874.4 | 1769.0 | 1718.6 | 1709.4 | 1686.5 | 1663.6 | 1663.6 | 1649.8 |
| 25° | 1984.4 | 1975.2 | 1938.5 | 1883.5 | 1764.4 | 1691.1 | 1645.2 | 1590.2 | 1562.7 | 1549.0 | 1567.3 |
| 27.5° | 2048.5 | 2030.2 | 1979.8 | 1883.5 | 1723.1 | 1617.7 | 1530.7 | 1461.9 | 1439.0 | 1420.7 | 1439.0 |
| 30° | 2135.6 | 2103.5 | 2034.8 | 1869.8 | 1659.0 | 1503.2 | 1384.0 | 1301.5 | 1278.6 | 1251.1 | 1260.3 |
| 32.5° | 2213.5 | 2140.2 | 2080.6 | 1828.6 | 1576.5 | 1374.9 | 1237.4 | 1154.9 | 1113.6 | 1090.7 | 1109.0 |
| 35° | 2296.0 | 2222.7 | 2098.9 | 1764.4 | 1448.2 | 1219.0 | 1081.5 | 1003.6 | 971.6 | 939.5 | 939.5 |
| 37.5° | 2378.5 | 2337.2 | 2126.4 | 1645.2 | 1292.4 | 1072.4 | 948.6 | 889.1 | 834.1 | 774.5 | 774.5 |
| 40° | 2552.6 | 2497.6 | 2158.5 | 1507.8 | 1136.5 | 930.3 | 843.2 | 765.3 | 710.3 | 627.8 | 623.3 |
| 42.5° | 2736.0 | 2616.8 | 2158.5 | 1342.8 | 999.1 | 829.5 | 747.0 | 664.5 | 563.7 | 513.3 | 517.9 |
| 45° | 2969.7 | 2832.2 | 2098.9 | 1196.1 | 861.6 | 747.0 | 655.3 | 549.9 | 504.1 | 472.0 | 472.0 |
| 47.5° | 3263.0 | 3047.6 | 2025.6 | 1035.7 | 751.6 | 673.7 | 559.1 | 494.9 | 462.9 | 435.4 | 430.8 |
| 50° | 3611.3 | 3244.6 | 1934.0 | 898.2 | 659.9 | 604.9 | 508.7 | 458.3 | 430.8 | 412.5 | 412.5 |
| 52.5° | 3977.9 | 3533.4 | 1869.8 | 774.5 | 586.6 | 513.3 | 472.0 | 440.0 | 417.0 | 403.3 | 398.7 |
| 55° | 4349.1 | 3822.1 | 1824.0 | 641.6 | 517.9 | 472.0 | 462.9 | 435.4 | 426.2 | 412.5 | 403.3 |
| 57.5° | 4766.2 | 4060.4 | 1814.8 | 549.9 | 462.9 | 453.7 | 472.0 | 449.1 | 435.4 | 421.6 | 407.9 |
| 60° | 5215.3 | 4381.2 | 1732.3 | 476.6 | 435.4 | 444.5 | 458.3 | 435.4 | 426.2 | 412.5 | 403.3 |
| 62.5° | 5659.8 | 4619.5 | 1507.8 | 421.6 | 407.9 | 417.0 | 435.4 | 417.0 | 403.3 | 407.9 | 412.5 |
| 65° | 5843.1 | 4637.8 | 1168.6 | 380.4 | 375.8 | 380.4 | 407.9 | 403.3 | 389.5 | 417.0 | 417.0 |
| 67.5° | 5659.8 | 4472.8 | 824.9 | 343.7 | 343.7 | 366.6 | 412.5 | 421.6 | 407.9 | 444.5 | 440.0 |
| 70° | 5242.8 | 4065.0 | 559.1 | 320.8 | 330.0 | 389.5 | 426.2 | 417.0 | 398.7 | 444.5 | 435.4 |
| 72.5° | 4449.9 | 3253.8 | 407.9 | 297.9 | 311.6 | 371.2 | 421.6 | 412.5 | 398.7 | 417.0 | 398.7 |
| 75° | 3340.9 | 2314.3 | 320.8 | 270.4 | 275.0 | 334.5 | 435.4 | 412.5 | 375.8 | 366.6 | 352.9 |
| 77.5° | 2231.8 | 1429.8 | 247.5 | 238.3 | 238.3 | 293.3 | 417.0 | 385.0 | 339.1 | 325.4 | 320.8 |
| 80° | 1063.2 | 572.9 | 197.1 | 201.6 | 206.2 | 252.1 | 380.4 | 343.7 | 307.1 | 288.7 | 288.7 |
| 82.5° | 339.1 | 215.4 | 165.0 | 165.0 | 165.0 | 206.2 | 316.2 | 288.7 | 265.8 | 252.1 | 229.1 |
| 85° | 119.2 | 119.2 | 142.1 | 146.7 | 132.9 | 151.2 | 261.2 | 247.5 | 220.0 | 183.3 | 178.7 |
| 87.5° | 45.8 | 68.7 | 96.2 | 114.6 | 82.5 | 105.4 | 187.9 | 174.1 | 160.4 | 119.2 | 114.6 |
| 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)