

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: P675254

Luminaire Tested: **CCW-SA-2E-730-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675254
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-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

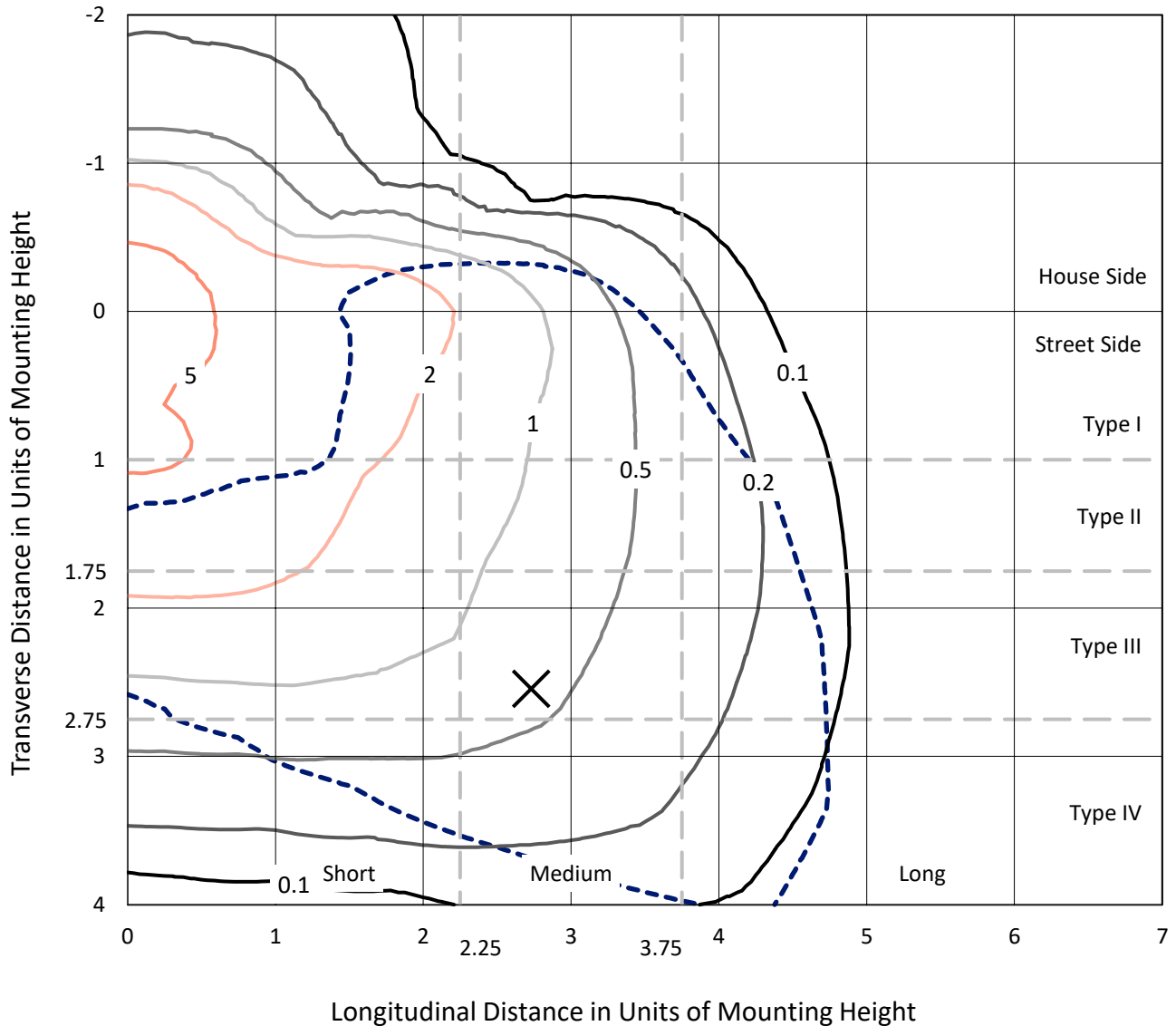
Lumens per Lamp: N/A
Luminaire Lumens: 12560.6 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

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

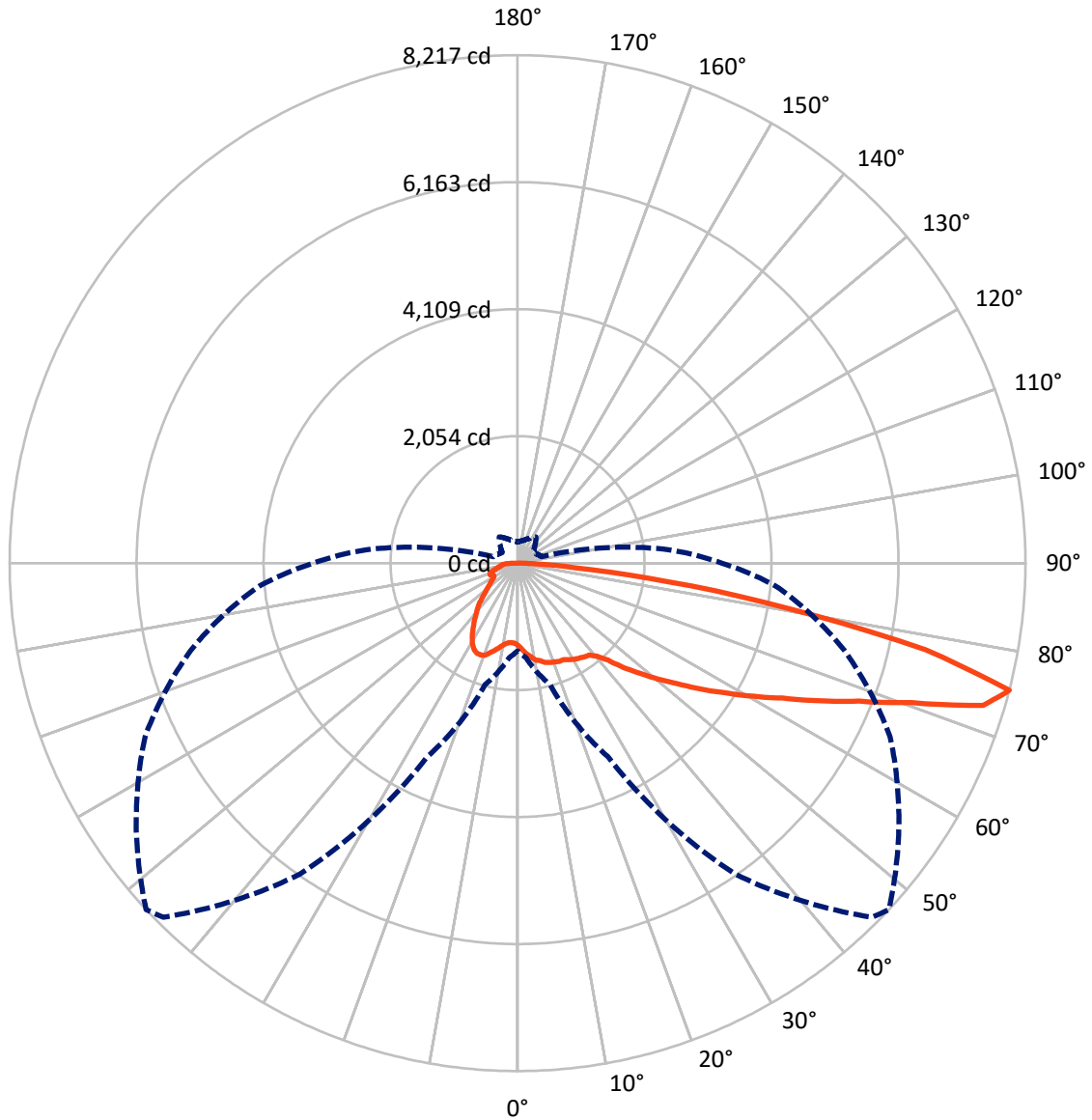
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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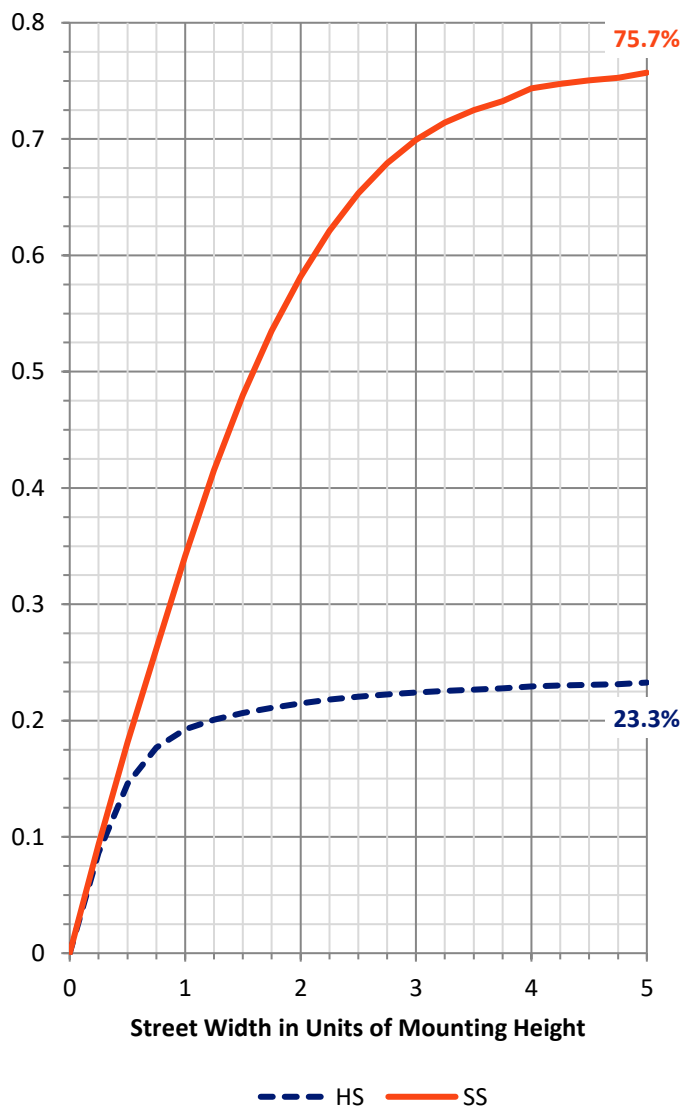
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3003.8 | 0.0 | 3003.8 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 9556.7 | 0.0 | 9556.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 12560.6 | 0.0 | 12560.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 134.8 | 1.1 |
| 10°-20° | 447.7 | 3.6 |
| 20°-30° | 766.9 | 6.1 |
| 30°-40° | 1073.0 | 8.5 |
| 40°-50° | 1496.1 | 11.9 |
| 50°-60° | 2236.2 | 17.8 |
| 60°-70° | 3224.1 | 25.7 |
| 70°-80° | 2744.5 | 21.8 |
| 80°-90° | 437.2 | 3.5 |
| 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° | 12560.6 | 100.0 |
| 0°-180° | 12560.6 | 100.0 |



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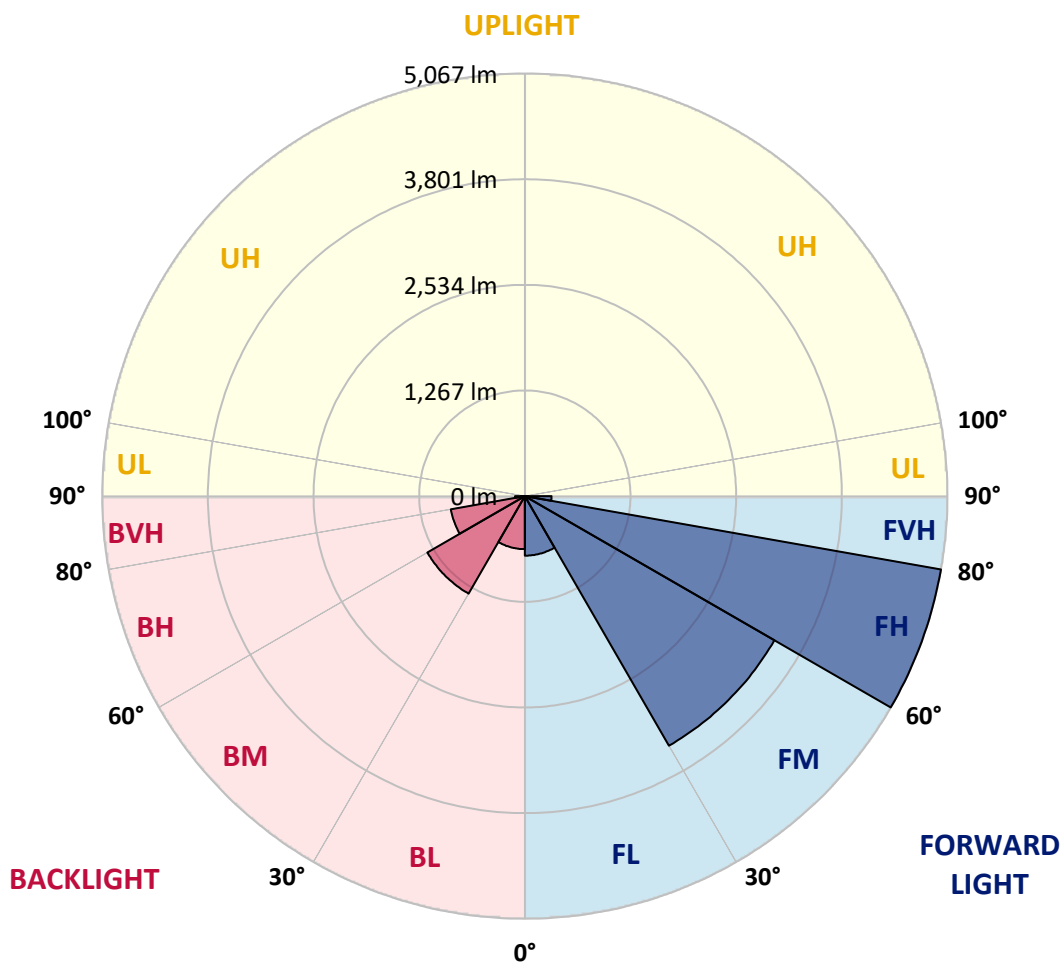
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 713.6 | 5.7 | | | |
| FM (30°-60°) | 3455.3 | 27.5 | | | |
| FH (60°-80°) | 5067.4 | 40.3 | | | G3/7500 |
| FVH (80°-90°) | 320.3 | 2.6 | | | G3/500 |
| BL (0°-30°) | 635.8 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1350.0 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 901.1 | 7.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 116.9 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 |
| 2.5° | 1429.9 | 1434.5 | 1434.5 | 1425.3 | 1416.2 | 1397.8 | 1397.8 | 1379.5 | 1370.3 | 1347.4 | 1338.2 |
| 5° | 1562.8 | 1549.1 | 1535.3 | 1530.7 | 1507.8 | 1475.7 | 1471.2 | 1452.8 | 1402.4 | 1379.5 | 1347.4 |
| 7.5° | 1659.1 | 1654.5 | 1649.9 | 1631.6 | 1590.3 | 1539.9 | 1526.2 | 1498.7 | 1448.2 | 1402.4 | 1365.7 |
| 10° | 1737.0 | 1755.3 | 1737.0 | 1695.7 | 1654.5 | 1599.5 | 1594.9 | 1544.5 | 1498.7 | 1443.7 | 1397.8 |
| 12.5° | 1824.1 | 1828.6 | 1796.6 | 1746.1 | 1682.0 | 1636.1 | 1617.8 | 1599.5 | 1549.1 | 1503.2 | 1434.5 |
| 15° | 1883.6 | 1874.5 | 1851.5 | 1782.8 | 1709.5 | 1663.6 | 1668.2 | 1645.3 | 1590.3 | 1558.2 | 1484.9 |
| 17.5° | 1883.6 | 1883.6 | 1847.0 | 1796.6 | 1732.4 | 1691.1 | 1691.1 | 1677.4 | 1640.7 | 1594.9 | 1544.5 |
| 20° | 1847.0 | 1847.0 | 1824.1 | 1796.6 | 1723.2 | 1714.1 | 1704.9 | 1695.7 | 1695.7 | 1654.5 | 1581.1 |
| 22.5° | 1801.1 | 1792.0 | 1801.1 | 1755.3 | 1704.9 | 1714.1 | 1727.8 | 1723.2 | 1709.5 | 1672.8 | 1622.4 |
| 25° | 1755.3 | 1759.9 | 1769.1 | 1737.0 | 1691.1 | 1732.4 | 1727.8 | 1750.7 | 1741.6 | 1714.1 | 1672.8 |
| 27.5° | 1750.7 | 1759.9 | 1764.5 | 1732.4 | 1714.1 | 1750.7 | 1769.1 | 1792.0 | 1796.6 | 1769.1 | 1718.6 |
| 30° | 1819.5 | 1814.9 | 1810.3 | 1769.1 | 1755.3 | 1787.4 | 1805.7 | 1837.8 | 1865.3 | 1805.7 | 1764.5 |
| 32.5° | 1998.2 | 1970.7 | 1943.2 | 1833.2 | 1792.0 | 1814.9 | 1833.2 | 1879.0 | 1883.6 | 1851.5 | 1792.0 |
| 35° | 2282.4 | 2264.0 | 2172.4 | 1979.9 | 1865.3 | 1842.4 | 1860.7 | 1892.8 | 1902.0 | 1879.0 | 1833.2 |
| 37.5° | 2607.8 | 2598.6 | 2470.3 | 2236.5 | 2016.5 | 1906.5 | 1888.2 | 1934.0 | 1970.7 | 1920.3 | 1856.1 |
| 40° | 2928.6 | 2891.9 | 2800.2 | 2571.1 | 2209.0 | 2002.8 | 1979.9 | 2002.8 | 2016.5 | 1979.9 | 1938.6 |
| 42.5° | 3217.3 | 3176.0 | 3153.1 | 2924.0 | 2461.1 | 2163.2 | 2144.9 | 2089.9 | 2131.1 | 2085.3 | 2030.3 |
| 45° | 3460.2 | 3451.0 | 3441.9 | 3244.8 | 2749.8 | 2424.4 | 2410.7 | 2268.6 | 2314.4 | 2277.8 | 2199.9 |
| 47.5° | 3634.4 | 3675.6 | 3661.8 | 3551.9 | 3079.8 | 2704.0 | 2662.7 | 2479.4 | 2548.2 | 2511.5 | 2433.6 |
| 50° | 3840.6 | 3863.5 | 3849.8 | 3776.4 | 3386.9 | 3024.8 | 2946.9 | 2759.0 | 2836.9 | 2832.3 | 2791.1 |
| 52.5° | 4023.9 | 4092.7 | 4014.7 | 4010.2 | 3826.8 | 3373.1 | 3240.2 | 3061.5 | 3189.8 | 3240.2 | 3235.6 |
| 55° | 4239.3 | 4294.3 | 4271.4 | 4262.2 | 4221.0 | 3712.3 | 3593.1 | 3377.7 | 3593.1 | 3666.4 | 3730.6 |
| 57.5° | 4422.6 | 4418.1 | 4505.1 | 4610.5 | 4661.0 | 4101.8 | 3959.7 | 3707.7 | 4033.1 | 4115.6 | 4294.3 |
| 60° | 4505.1 | 4583.0 | 4729.7 | 4995.5 | 5137.6 | 4518.9 | 4372.2 | 4170.6 | 4477.6 | 4541.8 | 4871.8 |
| 62.5° | 4560.1 | 4628.9 | 4913.0 | 5362.2 | 5444.7 | 4945.1 | 4807.6 | 4606.0 | 4963.4 | 5009.3 | 5499.6 |
| 65° | 4408.9 | 4473.0 | 5036.8 | 5499.6 | 5793.0 | 5403.4 | 5371.3 | 5160.5 | 5449.2 | 5476.7 | 6159.6 |
| 67.5° | 4234.7 | 4303.5 | 4931.4 | 5673.8 | 6255.9 | 6012.9 | 5962.5 | 5710.5 | 5930.5 | 5898.4 | 6663.7 |
| 70° | 3927.7 | 4019.3 | 4661.0 | 5825.0 | 6769.2 | 6865.4 | 6764.6 | 6407.1 | 6430.0 | 6127.5 | 6686.7 |
| 72.5° | 2992.7 | 3052.3 | 3648.1 | 5224.7 | 7007.5 | 8047.8 | 7873.7 | 7158.7 | 6897.5 | 6173.4 | 5903.0 |
| 75° | 1420.7 | 1530.7 | 2034.9 | 3455.6 | 6141.3 | 8102.8 | 8217.4 | 7529.9 | 6650.0 | 5476.7 | 4184.3 |
| 77.5° | 412.5 | 412.5 | 618.7 | 1466.6 | 3849.8 | 6530.8 | 6746.2 | 6393.3 | 5485.9 | 4056.0 | 2199.9 |
| 80° | 224.6 | 238.3 | 325.4 | 517.9 | 1691.1 | 4120.2 | 4431.8 | 4239.3 | 3231.0 | 1604.1 | 568.3 |
| 82.5° | 128.3 | 132.9 | 215.4 | 311.6 | 770.0 | 2241.1 | 2424.4 | 2199.9 | 1228.3 | 485.8 | 265.8 |
| 85° | 73.3 | 77.9 | 123.7 | 206.2 | 458.3 | 824.9 | 898.3 | 779.1 | 495.0 | 325.4 | 132.9 |
| 87.5° | 36.7 | 36.7 | 59.6 | 96.2 | 233.7 | 233.7 | 229.2 | 279.6 | 297.9 | 197.1 | 59.6 |
| 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° | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 | 1333.7 |
| 2.5° | 1333.7 | 1329.1 | 1329.1 | 1310.7 | 1306.2 | 1292.4 | 1292.4 | 1283.3 | 1278.7 | 1292.4 | 1292.4 |
| 5° | 1338.2 | 1315.3 | 1310.7 | 1292.4 | 1297.0 | 1287.8 | 1306.2 | 1297.0 | 1292.4 | 1292.4 | 1287.8 |
| 7.5° | 1347.4 | 1324.5 | 1306.2 | 1292.4 | 1287.8 | 1301.6 | 1324.5 | 1324.5 | 1352.0 | 1338.2 | 1338.2 |
| 10° | 1370.3 | 1356.6 | 1333.7 | 1324.5 | 1324.5 | 1338.2 | 1365.7 | 1384.1 | 1407.0 | 1407.0 | 1393.2 |
| 12.5° | 1425.3 | 1402.4 | 1374.9 | 1361.2 | 1379.5 | 1393.2 | 1420.7 | 1439.1 | 1466.6 | 1475.7 | 1466.6 |
| 15° | 1466.6 | 1443.7 | 1434.5 | 1425.3 | 1439.1 | 1457.4 | 1480.3 | 1498.7 | 1530.7 | 1539.9 | 1535.3 |
| 17.5° | 1521.6 | 1494.1 | 1489.5 | 1494.1 | 1503.2 | 1517.0 | 1530.7 | 1544.5 | 1567.4 | 1567.4 | 1567.4 |
| 20° | 1549.1 | 1539.9 | 1535.3 | 1549.1 | 1567.4 | 1585.7 | 1576.6 | 1567.4 | 1562.8 | 1572.0 | 1567.4 |
| 22.5° | 1599.5 | 1590.3 | 1594.9 | 1608.6 | 1608.6 | 1599.5 | 1585.7 | 1553.7 | 1544.5 | 1553.7 | 1544.5 |
| 25° | 1645.3 | 1636.1 | 1636.1 | 1627.0 | 1622.4 | 1590.3 | 1562.8 | 1535.3 | 1503.2 | 1517.0 | 1512.4 |
| 27.5° | 1691.1 | 1686.6 | 1686.6 | 1649.9 | 1604.1 | 1549.1 | 1512.4 | 1480.3 | 1462.0 | 1484.9 | 1471.2 |
| 30° | 1746.1 | 1750.7 | 1727.8 | 1640.7 | 1530.7 | 1471.2 | 1429.9 | 1425.3 | 1420.7 | 1434.5 | 1429.9 |
| 32.5° | 1796.6 | 1801.1 | 1764.5 | 1627.0 | 1475.7 | 1361.2 | 1319.9 | 1324.5 | 1347.4 | 1370.3 | 1393.2 |
| 35° | 1824.1 | 1847.0 | 1801.1 | 1581.1 | 1365.7 | 1237.4 | 1191.6 | 1232.8 | 1274.1 | 1306.2 | 1329.1 |
| 37.5° | 1874.5 | 1934.0 | 1856.1 | 1530.7 | 1269.5 | 1127.4 | 1095.3 | 1109.1 | 1159.5 | 1209.9 | 1232.8 |
| 40° | 1947.8 | 2016.5 | 1869.9 | 1434.5 | 1141.2 | 1017.4 | 999.1 | 1003.7 | 1022.0 | 1054.1 | 1077.0 |
| 42.5° | 2076.1 | 2149.4 | 1883.6 | 1310.7 | 1012.9 | 948.7 | 898.3 | 884.5 | 870.8 | 870.8 | 866.2 |
| 45° | 2264.0 | 2332.8 | 1865.3 | 1154.9 | 884.5 | 838.7 | 802.0 | 770.0 | 733.3 | 673.7 | 682.9 |
| 47.5° | 2539.0 | 2594.0 | 1879.0 | 1017.4 | 765.4 | 728.7 | 701.2 | 664.5 | 609.5 | 545.4 | 540.8 |
| 50° | 2956.1 | 2873.6 | 1860.7 | 875.4 | 678.3 | 646.2 | 623.3 | 572.9 | 508.7 | 462.9 | 458.3 |
| 52.5° | 3441.9 | 3276.9 | 1842.4 | 756.2 | 605.0 | 577.5 | 559.1 | 504.1 | 444.6 | 421.6 | 417.1 |
| 55° | 4028.5 | 3790.2 | 1869.9 | 650.8 | 550.0 | 527.0 | 508.7 | 458.3 | 412.5 | 394.1 | 389.6 |
| 57.5° | 4720.5 | 4344.7 | 2021.1 | 568.3 | 490.4 | 481.2 | 476.6 | 435.4 | 394.1 | 380.4 | 375.8 |
| 60° | 5371.3 | 4876.4 | 2121.9 | 508.7 | 435.4 | 444.6 | 453.7 | 435.4 | 389.6 | 380.4 | 380.4 |
| 62.5° | 5916.7 | 5316.3 | 1961.5 | 458.3 | 407.9 | 435.4 | 476.6 | 462.9 | 444.6 | 453.7 | 444.6 |
| 65° | 6397.9 | 5467.6 | 1466.6 | 430.8 | 394.1 | 458.3 | 527.0 | 522.5 | 481.2 | 490.4 | 485.8 |
| 67.5° | 6480.4 | 5284.2 | 957.9 | 407.9 | 385.0 | 504.1 | 591.2 | 536.2 | 453.7 | 453.7 | 440.0 |
| 70° | 6136.7 | 4793.9 | 641.6 | 385.0 | 380.4 | 504.1 | 605.0 | 504.1 | 426.2 | 426.2 | 407.9 |
| 72.5° | 5036.8 | 3831.4 | 495.0 | 362.1 | 348.3 | 449.1 | 572.9 | 476.6 | 398.7 | 389.6 | 357.5 |
| 75° | 3309.0 | 2470.3 | 403.3 | 343.7 | 302.5 | 394.1 | 517.9 | 440.0 | 380.4 | 352.9 | 339.1 |
| 77.5° | 1622.4 | 1109.1 | 339.1 | 302.5 | 261.2 | 343.7 | 472.1 | 417.1 | 357.5 | 330.0 | 320.8 |
| 80° | 444.6 | 398.7 | 284.1 | 265.8 | 220.0 | 297.9 | 444.6 | 398.7 | 334.6 | 307.1 | 293.3 |
| 82.5° | 252.1 | 247.5 | 229.2 | 215.4 | 183.3 | 297.9 | 449.1 | 398.7 | 316.2 | 311.6 | 265.8 |
| 85° | 137.5 | 146.7 | 165.0 | 160.4 | 142.1 | 265.8 | 426.2 | 348.3 | 256.7 | 215.4 | 215.4 |
| 87.5° | 55.0 | 68.7 | 82.5 | 91.7 | 96.2 | 197.1 | 320.8 | 265.8 | 197.1 | 165.0 | 165.0 |
| 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)