

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: P671386

Luminaire Tested: **CCP-SA-2B-735-U-SL3**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671386  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-735-U-SL3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL3 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

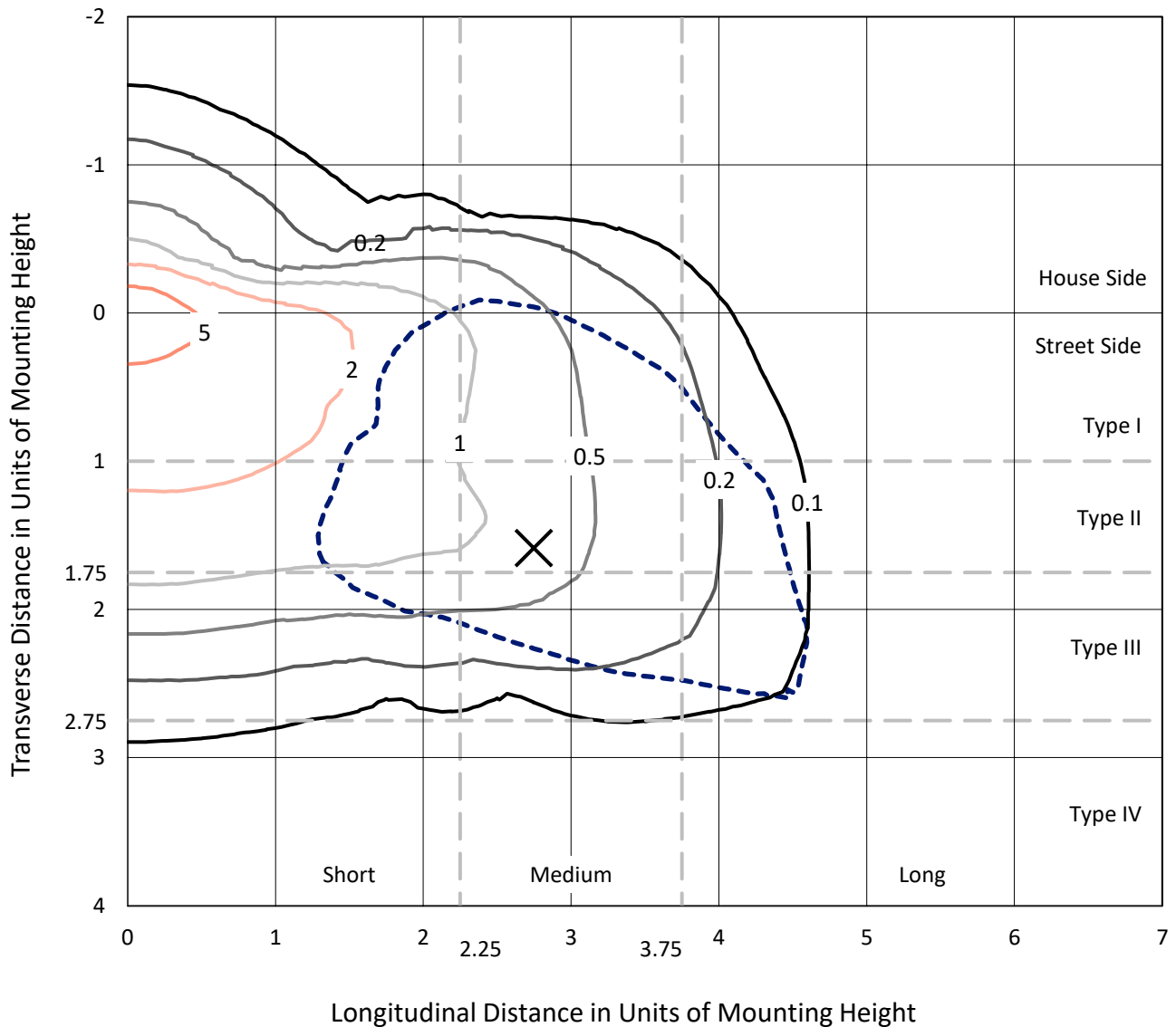
Lumens per Lamp: N/A  
Luminaire Lumens: 6734.9 lumens  
Efficiency: N/A  
Efficacy: 146.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

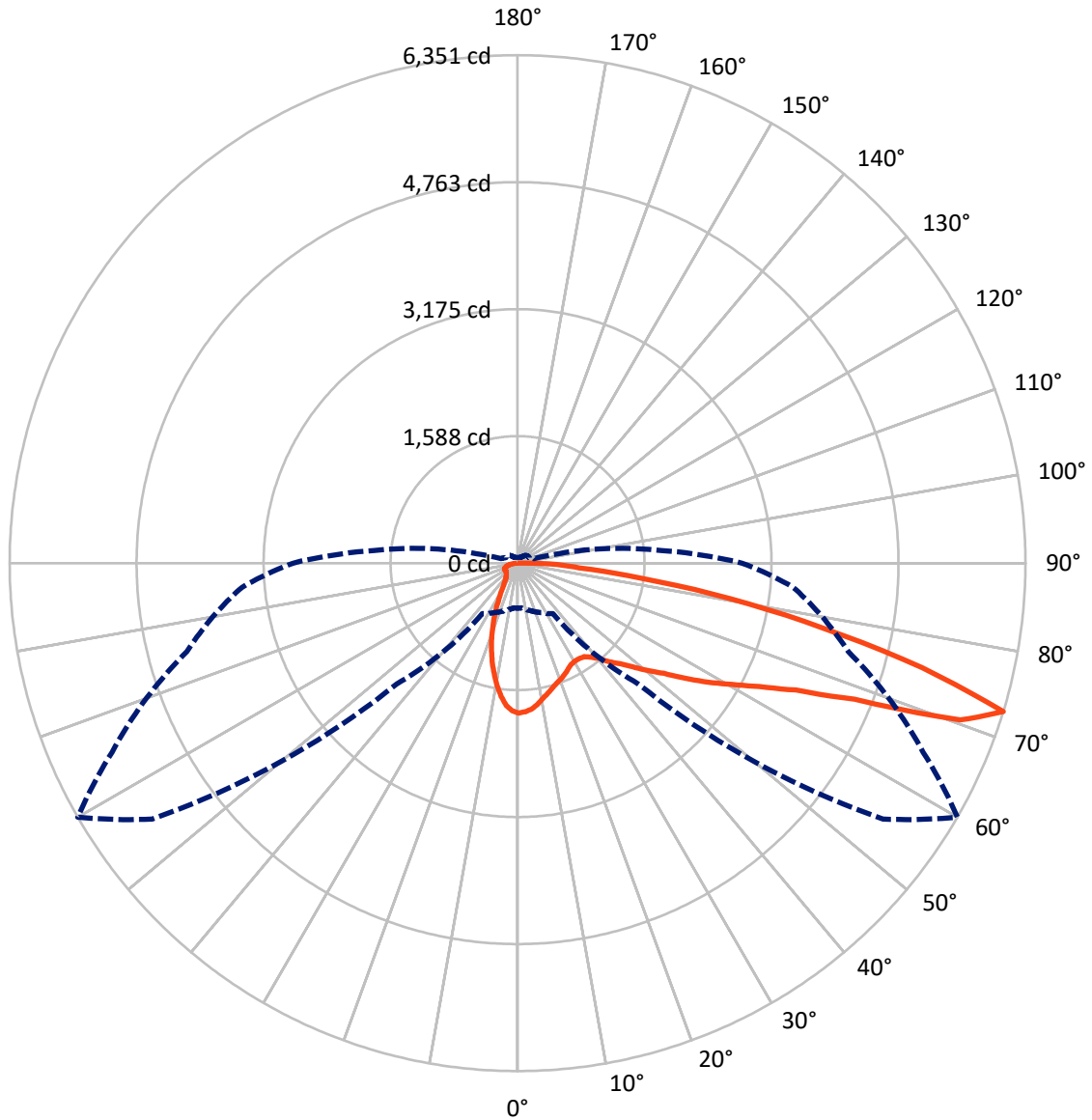
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1156.9   | 0.0    | 1156.9 |
|                    | % Fixture | 17.2     | 0.0    | 17.2   |
| <b>Street Side</b> | Lumens    | 5577.9   | 0.0    | 5577.9 |
|                    | % Fixture | 82.8     | 0.0    | 82.8   |
| <b>Total</b>       | Lumens    | 6734.9   | 0.0    | 6734.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.5  | 2.4       |
| 10°-20°   | 368.6  | 5.5       |
| 20°-30°   | 471.7  | 7.0       |
| 30°-40°   | 603.5  | 9.0       |
| 40°-50°   | 827.7  | 12.3      |
| 50°-60°   | 1197.1 | 17.8      |
| 60°-70°   | 1642.3 | 24.4      |
| 70°-80°   | 1232.4 | 18.3      |
| 80°-90°   | 229.0  | 3.4       |
| 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°    | 6734.9 | 100.0     |
| 0°-180°   | 6734.9 | 100.0     |



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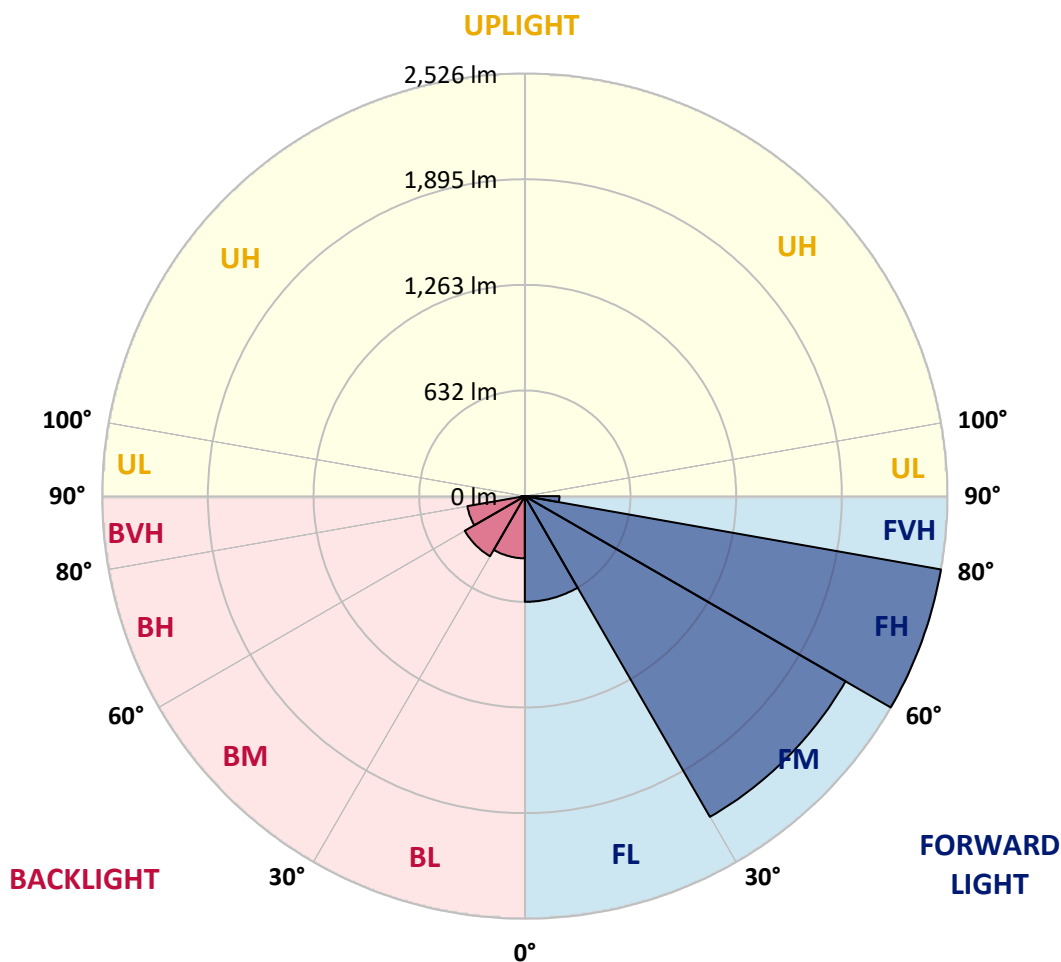
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 631.5  | 9.4       |                         |      |         |
| FM (30°-60°)   | 2213.7 | 32.9      |                         |      |         |
| FH (60°-80°)   | 2526.0 | 37.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 206.7  | 3.1       |                         |      | G2/225  |
| BL (0°-30°)    | 371.4  | 5.5       | B1/500                  |      |         |
| BM (30°-60°)   | 414.6  | 6.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 348.6  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 22.3   | 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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 |
| 2.5°  | 1835.2 | 1852.8 | 1857.8 | 1857.8 | 1872.8 | 1855.3 | 1880.3 | 1860.3 | 1865.3 | 1872.8 | 1867.8 |
| 5°    | 1747.5 | 1777.6 | 1760.0 | 1792.6 | 1780.1 | 1802.6 | 1832.7 | 1832.7 | 1825.2 | 1840.2 | 1827.7 |
| 7.5°  | 1662.2 | 1652.2 | 1682.3 | 1682.3 | 1702.3 | 1732.4 | 1757.5 | 1782.6 | 1785.1 | 1790.1 | 1787.6 |
| 10°   | 1546.9 | 1559.4 | 1574.5 | 1594.5 | 1619.6 | 1649.7 | 1702.3 | 1722.4 | 1727.4 | 1757.5 | 1750.0 |
| 12.5° | 1451.6 | 1469.2 | 1479.2 | 1519.3 | 1541.9 | 1584.5 | 1644.7 | 1672.3 | 1674.8 | 1717.4 | 1717.4 |
| 15°   | 1381.4 | 1391.5 | 1414.0 | 1429.1 | 1479.2 | 1539.4 | 1597.0 | 1622.1 | 1649.7 | 1694.8 | 1682.3 |
| 17.5° | 1333.8 | 1346.3 | 1356.4 | 1376.4 | 1424.0 | 1474.2 | 1564.4 | 1579.5 | 1612.1 | 1677.3 | 1662.2 |
| 20°   | 1306.2 | 1308.7 | 1323.8 | 1336.3 | 1378.9 | 1426.6 | 1506.8 | 1546.9 | 1589.5 | 1647.2 | 1632.1 |
| 22.5° | 1311.2 | 1301.2 | 1298.7 | 1316.2 | 1323.8 | 1368.9 | 1466.7 | 1509.3 | 1569.5 | 1637.2 | 1612.1 |
| 25°   | 1321.3 | 1323.8 | 1318.7 | 1303.7 | 1306.2 | 1346.3 | 1411.5 | 1466.7 | 1534.4 | 1634.6 | 1584.5 |
| 27.5° | 1346.3 | 1358.9 | 1338.8 | 1323.8 | 1308.7 | 1323.8 | 1391.5 | 1431.6 | 1506.8 | 1647.2 | 1582.0 |
| 30°   | 1371.4 | 1383.9 | 1378.9 | 1356.4 | 1326.3 | 1321.3 | 1368.9 | 1419.0 | 1491.7 | 1657.2 | 1582.0 |
| 32.5° | 1409.0 | 1426.6 | 1409.0 | 1416.5 | 1381.4 | 1358.9 | 1376.4 | 1421.5 | 1506.8 | 1692.3 | 1584.5 |
| 35°   | 1451.6 | 1466.7 | 1471.7 | 1454.1 | 1446.6 | 1404.0 | 1414.0 | 1436.6 | 1521.8 | 1732.4 | 1609.6 |
| 37.5° | 1499.3 | 1516.8 | 1531.9 | 1534.4 | 1509.3 | 1484.2 | 1479.2 | 1491.7 | 1559.4 | 1802.6 | 1637.2 |
| 40°   | 1531.9 | 1541.9 | 1572.0 | 1597.0 | 1604.6 | 1569.5 | 1567.0 | 1567.0 | 1627.1 | 1865.3 | 1687.3 |
| 42.5° | 1587.0 | 1582.0 | 1624.6 | 1669.7 | 1682.3 | 1662.2 | 1667.2 | 1687.3 | 1722.4 | 1955.6 | 1767.5 |
| 45°   | 1614.6 | 1609.6 | 1659.7 | 1734.9 | 1792.6 | 1782.6 | 1787.6 | 1795.1 | 1827.7 | 2098.5 | 1902.9 |
| 47.5° | 1652.2 | 1657.2 | 1729.9 | 1815.2 | 1875.3 | 1910.4 | 1938.0 | 1935.5 | 1960.6 | 2243.9 | 2053.3 |
| 50°   | 1689.8 | 1699.8 | 1787.6 | 1877.8 | 1983.1 | 2043.3 | 2083.4 | 2111.0 | 2136.1 | 2396.8 | 2226.3 |
| 52.5° | 1762.5 | 1772.5 | 1870.3 | 1968.1 | 2103.5 | 2191.2 | 2291.5 | 2289.0 | 2291.5 | 2549.8 | 2399.3 |
| 55°   | 1867.8 | 1870.3 | 1928.0 | 2040.8 | 2223.8 | 2384.3 | 2522.2 | 2537.2 | 2494.6 | 2740.3 | 2597.4 |
| 57.5° | 1988.2 | 1998.2 | 2048.3 | 2133.6 | 2319.1 | 2569.8 | 2780.4 | 2810.5 | 2695.2 | 2895.7 | 2777.9 |
| 60°   | 2101.0 | 2108.5 | 2186.2 | 2284.0 | 2484.6 | 2803.0 | 3041.1 | 3076.2 | 2950.9 | 3086.3 | 2965.9 |
| 62.5° | 1973.1 | 2010.7 | 2148.6 | 2371.7 | 2775.4 | 3156.5 | 3372.1 | 3394.7 | 3199.1 | 3279.3 | 3166.5 |
| 65°   | 1579.5 | 1604.6 | 1802.6 | 2163.7 | 2795.4 | 3798.3 | 3883.5 | 3823.4 | 3540.1 | 3527.5 | 3469.9 |
| 67.5° | 880.0  | 900.1  | 1035.4 | 1414.0 | 2354.2 | 4039.0 | 4984.2 | 4542.9 | 4069.1 | 3901.1 | 3881.0 |
| 70°   | 694.5  | 699.5  | 717.0  | 794.8  | 1306.2 | 3560.1 | 5851.6 | 5871.7 | 4934.0 | 4415.1 | 3968.8 |
| 72.5° | 564.1  | 561.6  | 614.2  | 681.9  | 772.2  | 2136.1 | 5578.4 | 6350.6 | 5595.9 | 4279.7 | 3457.3 |
| 75°   | 431.2  | 438.7  | 506.4  | 604.2  | 707.0  | 1005.4 | 4161.8 | 5224.9 | 5242.4 | 3988.8 | 2915.8 |
| 77.5° | 328.4  | 330.9  | 406.2  | 534.0  | 692.0  | 709.5  | 2715.2 | 3893.6 | 3911.1 | 3088.8 | 1607.1 |
| 80°   | 245.7  | 245.7  | 308.4  | 451.3  | 674.4  | 654.4  | 1672.3 | 2700.2 | 2444.5 | 1085.6 | 351.0  |
| 82.5° | 140.4  | 150.4  | 205.6  | 343.5  | 611.7  | 629.3  | 942.7  | 1546.9 | 1032.9 | 295.8  | 163.0  |
| 85°   | 75.2   | 77.7   | 125.4  | 230.7  | 503.9  | 601.7  | 719.5  | 769.7  | 411.2  | 157.9  | 75.2   |
| 87.5° | 27.6   | 27.6   | 57.7   | 117.8  | 318.4  | 446.3  | 571.6  | 491.4  | 235.7  | 72.7   | 37.6   |
| 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°    | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 |
| 2.5°  | 1872.8 | 1862.8 | 1855.3 | 1862.8 | 1835.2 | 1822.7 | 1837.7 | 1830.2 | 1815.2 | 1807.6 | 1802.6 |
| 5°    | 1835.2 | 1822.7 | 1810.1 | 1802.6 | 1772.5 | 1742.5 | 1727.4 | 1697.3 | 1672.3 | 1679.8 | 1664.7 |
| 7.5°  | 1795.1 | 1782.6 | 1745.0 | 1709.9 | 1649.7 | 1589.5 | 1561.9 | 1519.3 | 1504.3 | 1491.7 | 1484.2 |
| 10°   | 1745.0 | 1722.4 | 1664.7 | 1594.5 | 1506.8 | 1439.1 | 1368.9 | 1318.7 | 1266.1 | 1243.5 | 1251.1 |
| 12.5° | 1682.3 | 1669.7 | 1579.5 | 1471.7 | 1348.8 | 1236.0 | 1153.3 | 1073.1 | 1002.9 | 965.2  | 955.2  |
| 15°   | 1654.7 | 1617.1 | 1486.7 | 1343.8 | 1188.4 | 1048.0 | 925.1  | 784.7  | 702.0  | 661.9  | 661.9  |
| 17.5° | 1624.6 | 1554.4 | 1399.0 | 1203.4 | 1025.4 | 844.9  | 671.9  | 544.0  | 478.9  | 456.3  | 456.3  |
| 20°   | 1577.0 | 1499.3 | 1296.2 | 1070.5 | 854.9  | 636.8  | 481.4  | 411.2  | 391.1  | 376.1  | 378.6  |
| 22.5° | 1541.9 | 1446.6 | 1200.9 | 940.2  | 676.9  | 473.8  | 378.6  | 356.0  | 348.5  | 343.5  | 346.0  |
| 25°   | 1501.8 | 1383.9 | 1100.6 | 799.8  | 531.5  | 373.6  | 328.4  | 318.4  | 323.4  | 325.9  | 325.9  |
| 27.5° | 1469.2 | 1331.3 | 997.8  | 649.3  | 401.1  | 315.9  | 295.8  | 293.3  | 303.4  | 308.4  | 310.9  |
| 30°   | 1446.6 | 1283.7 | 897.6  | 511.5  | 320.9  | 280.8  | 270.8  | 270.8  | 283.3  | 288.3  | 290.8  |
| 32.5° | 1424.0 | 1243.5 | 789.7  | 391.1  | 273.3  | 250.7  | 248.2  | 250.7  | 258.2  | 258.2  | 260.7  |
| 35°   | 1431.6 | 1205.9 | 687.0  | 315.9  | 245.7  | 230.7  | 230.7  | 230.7  | 233.2  | 235.7  | 235.7  |
| 37.5° | 1446.6 | 1195.9 | 576.6  | 265.8  | 225.6  | 215.6  | 215.6  | 213.1  | 215.6  | 213.1  | 215.6  |
| 40°   | 1461.7 | 1180.9 | 476.4  | 235.7  | 213.1  | 205.6  | 203.1  | 198.1  | 195.6  | 195.6  | 198.1  |
| 42.5° | 1524.3 | 1200.9 | 391.1  | 215.6  | 203.1  | 198.1  | 190.5  | 185.5  | 183.0  | 183.0  | 183.0  |
| 45°   | 1604.6 | 1238.5 | 323.4  | 205.6  | 195.6  | 183.0  | 178.0  | 175.5  | 170.5  | 173.0  | 175.5  |
| 47.5° | 1724.9 | 1296.2 | 283.3  | 198.1  | 188.0  | 173.0  | 168.0  | 163.0  | 163.0  | 168.0  | 168.0  |
| 50°   | 1882.9 | 1391.5 | 258.2  | 190.5  | 180.5  | 165.5  | 157.9  | 155.4  | 155.4  | 163.0  | 163.0  |
| 52.5° | 2053.3 | 1501.8 | 248.2  | 188.0  | 173.0  | 157.9  | 150.4  | 147.9  | 147.9  | 157.9  | 157.9  |
| 55°   | 2223.8 | 1637.2 | 255.7  | 188.0  | 168.0  | 150.4  | 142.9  | 137.9  | 140.4  | 147.9  | 147.9  |
| 57.5° | 2411.9 | 1782.6 | 293.3  | 188.0  | 163.0  | 147.9  | 137.9  | 130.4  | 132.9  | 135.4  | 135.4  |
| 60°   | 2617.4 | 1973.1 | 358.5  | 188.0  | 160.5  | 142.9  | 130.4  | 120.3  | 120.3  | 122.8  | 122.8  |
| 62.5° | 2825.5 | 2161.1 | 451.3  | 190.5  | 163.0  | 140.4  | 120.3  | 110.3  | 107.8  | 110.3  | 110.3  |
| 65°   | 3098.8 | 2462.0 | 544.0  | 190.5  | 170.5  | 135.4  | 112.8  | 100.3  | 97.8   | 97.8   | 100.3  |
| 67.5° | 3482.4 | 2677.6 | 421.2  | 183.0  | 175.5  | 135.4  | 105.3  | 92.8   | 87.7   | 87.7   | 87.7   |
| 70°   | 3279.3 | 2258.9 | 268.3  | 170.5  | 168.0  | 140.4  | 100.3  | 85.2   | 80.2   | 77.7   | 77.7   |
| 72.5° | 2808.0 | 1807.6 | 215.6  | 160.5  | 155.4  | 137.9  | 95.3   | 80.2   | 72.7   | 70.2   | 70.2   |
| 75°   | 2251.4 | 1426.6 | 188.0  | 145.4  | 135.4  | 115.3  | 87.7   | 72.7   | 67.7   | 62.7   | 62.7   |
| 77.5° | 1103.1 | 596.7  | 142.9  | 127.9  | 115.3  | 87.7   | 77.7   | 67.7   | 60.2   | 55.2   | 55.2   |
| 80°   | 275.8  | 208.1  | 105.3  | 100.3  | 85.2   | 67.7   | 62.7   | 57.7   | 52.6   | 47.6   | 47.6   |
| 82.5° | 147.9  | 122.8  | 75.2   | 67.7   | 57.7   | 47.6   | 47.6   | 45.1   | 42.6   | 37.6   | 35.1   |
| 85°   | 75.2   | 72.7   | 50.1   | 45.1   | 37.6   | 30.1   | 32.6   | 32.6   | 30.1   | 22.6   | 22.6   |
| 87.5° | 40.1   | 40.1   | 25.1   | 20.1   | 17.5   | 15.0   | 15.0   | 15.0   | 12.5   | 10.0   | 10.0   |
| 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)