

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: P675484

Luminaire Tested: **CCW-SA-2C-840-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675484  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-840-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SL2 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

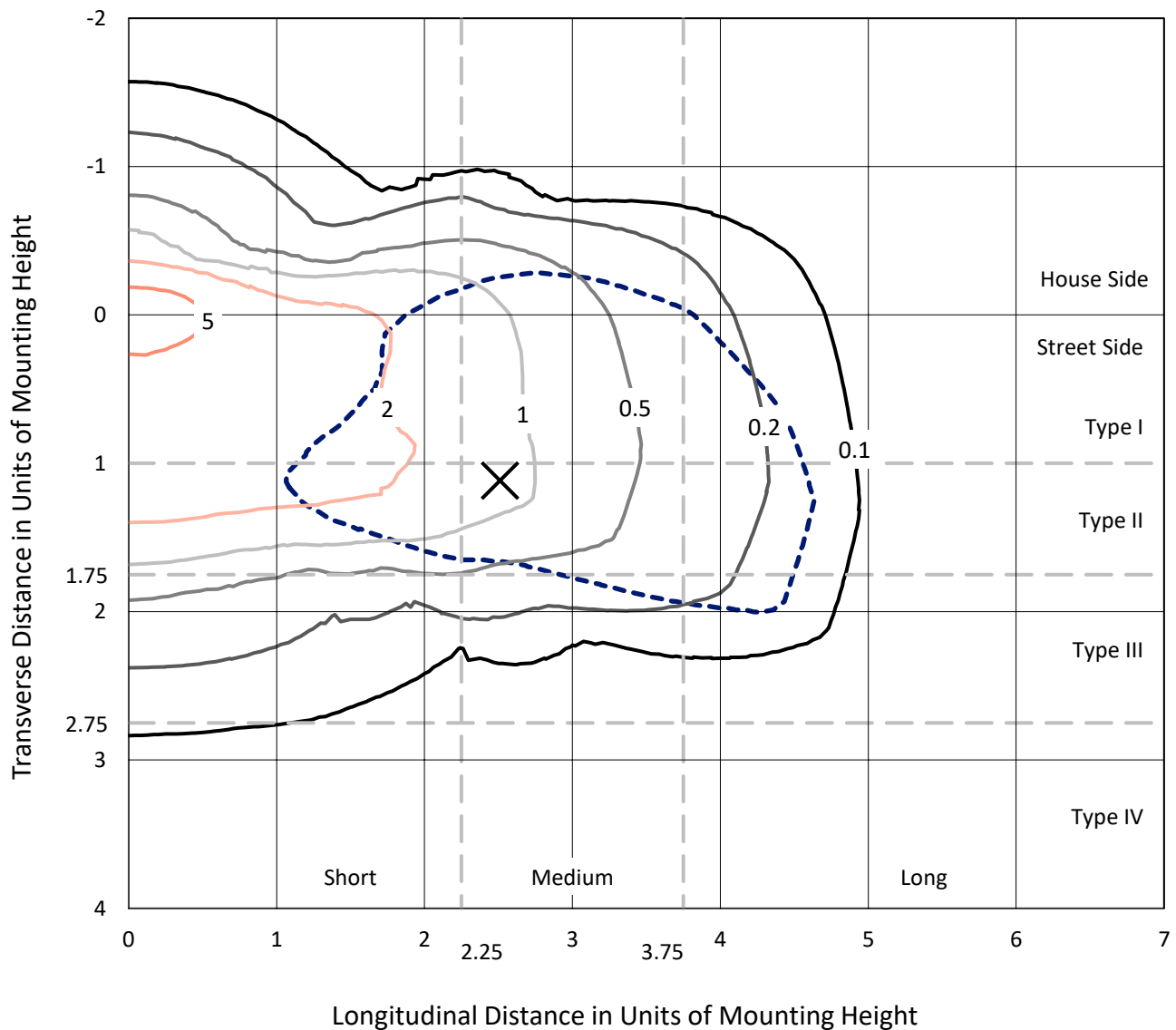
Lumens per Lamp: N/A  
Luminaire Lumens: 7629.3 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 62.1  
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

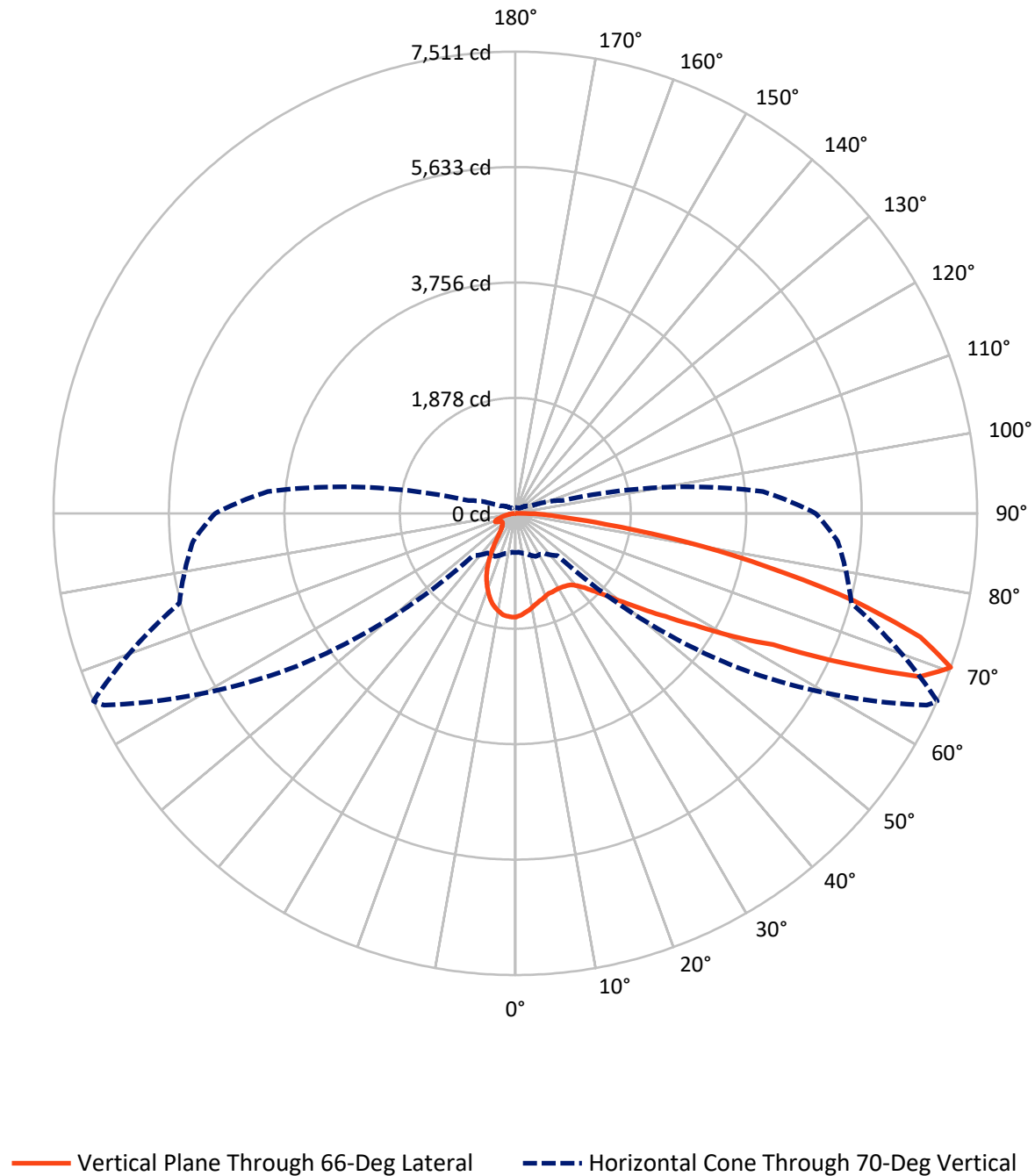
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1561.6   | 0.0    | 1561.6 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 6067.7   | 0.0    | 6067.7 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 7629.3   | 0.0    | 7629.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.0  | 2.0       |
| 10°-20°   | 366.9  | 4.8       |
| 20°-30°   | 503.9  | 6.6       |
| 30°-40°   | 675.6  | 8.9       |
| 40°-50°   | 980.2  | 12.8      |
| 50°-60°   | 1489.9 | 19.5      |
| 60°-70°   | 1840.1 | 24.1      |
| 70°-80°   | 1368.4 | 17.9      |
| 80°-90°   | 255.2  | 3.3       |
| 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°    | 7629.3 | 100.0     |
| 0°-180°   | 7629.3 | 100.0     |

**Coefficient of Utilization**



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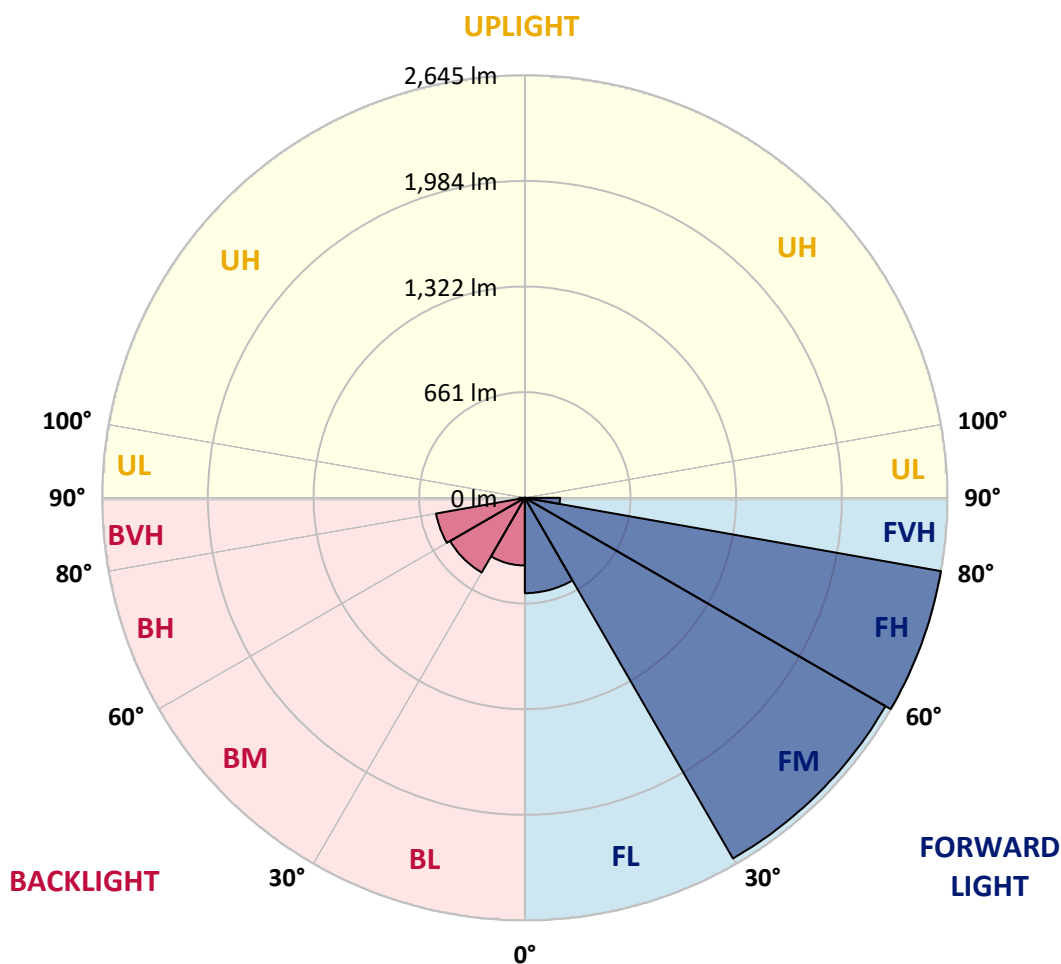
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 596.6  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 2606.3 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 2644.8 | 34.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 220.0  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 423.2  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 539.4  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 563.7  | 7.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 35.2   | 0.5       |                         |      | 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°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 |
| 2.5°  | 1603.3 | 1611.8 | 1614.6 | 1620.3 | 1634.5 | 1645.8 | 1662.9 | 1671.4 | 1662.9 | 1674.2 | 1674.2 |
| 5°    | 1492.6 | 1481.2 | 1509.6 | 1521.0 | 1538.0 | 1560.7 | 1600.4 | 1631.6 | 1623.1 | 1657.2 | 1685.6 |
| 7.5°  | 1399.0 | 1399.0 | 1407.5 | 1433.0 | 1452.9 | 1486.9 | 1529.5 | 1577.7 | 1591.9 | 1637.3 | 1679.9 |
| 10°   | 1313.8 | 1325.2 | 1325.2 | 1364.9 | 1376.3 | 1416.0 | 1486.9 | 1546.5 | 1549.3 | 1626.0 | 1685.6 |
| 12.5° | 1268.4 | 1262.7 | 1291.1 | 1302.5 | 1336.5 | 1376.3 | 1433.0 | 1506.8 | 1509.6 | 1591.9 | 1674.2 |
| 15°   | 1231.5 | 1237.2 | 1251.4 | 1279.8 | 1311.0 | 1342.2 | 1396.1 | 1464.2 | 1478.4 | 1574.9 | 1668.5 |
| 17.5° | 1234.4 | 1237.2 | 1237.2 | 1257.1 | 1282.6 | 1319.5 | 1370.6 | 1450.0 | 1458.5 | 1552.2 | 1660.0 |
| 20°   | 1251.4 | 1240.0 | 1248.6 | 1257.1 | 1274.1 | 1308.1 | 1350.7 | 1418.8 | 1427.3 | 1549.3 | 1679.9 |
| 22.5° | 1288.3 | 1279.8 | 1276.9 | 1274.1 | 1271.3 | 1291.1 | 1345.0 | 1401.8 | 1410.3 | 1535.2 | 1688.4 |
| 25°   | 1347.9 | 1345.0 | 1325.2 | 1305.3 | 1291.1 | 1291.1 | 1333.7 | 1416.0 | 1413.1 | 1535.2 | 1694.1 |
| 27.5° | 1418.8 | 1418.8 | 1416.0 | 1379.1 | 1336.5 | 1313.8 | 1342.2 | 1410.3 | 1407.5 | 1535.2 | 1708.3 |
| 30°   | 1515.3 | 1515.3 | 1506.8 | 1472.7 | 1396.1 | 1330.8 | 1347.9 | 1404.6 | 1413.1 | 1523.8 | 1696.9 |
| 32.5° | 1620.3 | 1617.4 | 1626.0 | 1594.7 | 1515.3 | 1410.3 | 1381.9 | 1416.0 | 1424.5 | 1535.2 | 1699.7 |
| 35°   | 1696.9 | 1713.9 | 1742.3 | 1713.9 | 1634.5 | 1492.6 | 1430.2 | 1438.7 | 1444.4 | 1538.0 | 1711.1 |
| 37.5° | 1784.9 | 1804.7 | 1844.5 | 1867.2 | 1782.0 | 1617.4 | 1506.8 | 1475.6 | 1475.6 | 1574.9 | 1713.9 |
| 40°   | 1912.6 | 1892.7 | 1960.8 | 2000.5 | 1966.5 | 1770.7 | 1626.0 | 1543.7 | 1546.5 | 1623.1 | 1750.8 |
| 42.5° | 2006.2 | 2026.1 | 2097.0 | 2168.0 | 2125.4 | 1958.0 | 1756.5 | 1654.3 | 1654.3 | 1694.1 | 1807.6 |
| 45°   | 2111.2 | 2133.9 | 2233.2 | 2318.3 | 2349.6 | 2182.1 | 1935.3 | 1813.2 | 1807.6 | 1833.1 | 1909.7 |
| 47.5° | 2227.5 | 2258.8 | 2372.3 | 2471.6 | 2553.9 | 2414.8 | 2165.1 | 2006.2 | 2003.4 | 2023.2 | 2080.0 |
| 50°   | 2360.9 | 2372.3 | 2465.9 | 2647.5 | 2812.1 | 2724.1 | 2446.0 | 2278.6 | 2264.4 | 2272.9 | 2349.6 |
| 52.5° | 2400.6 | 2392.1 | 2500.0 | 2695.7 | 2996.5 | 3101.5 | 2829.1 | 2587.9 | 2582.2 | 2562.4 | 2661.7 |
| 55°   | 2255.9 | 2284.3 | 2389.3 | 2639.0 | 3146.9 | 3547.0 | 3249.1 | 3010.7 | 2959.6 | 2905.7 | 3024.9 |
| 57.5° | 1966.5 | 1969.3 | 2088.5 | 2383.6 | 3030.6 | 3915.9 | 3961.3 | 3425.0 | 3427.9 | 3283.1 | 3419.3 |
| 60°   | 1529.5 | 1521.0 | 1614.6 | 1881.3 | 2698.6 | 4029.4 | 4738.8 | 4086.2 | 4057.8 | 3660.5 | 3785.4 |
| 62.5° | 1103.8 | 1086.8 | 1106.7 | 1262.7 | 2017.6 | 3856.3 | 5502.2 | 4826.8 | 4707.6 | 4046.5 | 4142.9 |
| 65°   | 908.0  | 916.6  | 925.1  | 933.6  | 1132.2 | 3181.0 | 5737.7 | 6035.6 | 5876.7 | 4497.6 | 4537.4 |
| 67.5° | 752.0  | 757.6  | 794.5  | 845.6  | 839.9  | 1878.5 | 5465.3 | 7153.7 | 7094.1 | 5056.7 | 4877.9 |
| 70°   | 638.5  | 635.6  | 678.2  | 771.8  | 786.0  | 976.1  | 4327.4 | 7383.5 | 7511.2 | 5658.2 | 5263.8 |
| 72.5° | 510.8  | 516.4  | 553.3  | 678.2  | 771.8  | 822.9  | 2491.4 | 6889.8 | 6886.9 | 6120.8 | 5056.7 |
| 75°   | 366.1  | 366.1  | 417.1  | 561.9  | 746.3  | 814.4  | 1379.1 | 5593.0 | 5698.0 | 5751.9 | 4387.0 |
| 77.5° | 241.2  | 252.5  | 292.3  | 420.0  | 700.9  | 797.4  | 874.0  | 4066.3 | 4196.9 | 4301.8 | 3356.9 |
| 80°   | 164.6  | 170.3  | 195.8  | 292.3  | 593.1  | 803.0  | 715.1  | 2735.5 | 2786.6 | 2375.1 | 1362.1 |
| 82.5° | 99.3   | 102.2  | 130.5  | 204.3  | 425.6  | 763.3  | 672.5  | 1509.6 | 1478.4 | 717.9  | 391.6  |
| 85°   | 53.9   | 56.8   | 82.3   | 136.2  | 280.9  | 666.8  | 661.2  | 740.6  | 689.5  | 263.9  | 164.6  |
| 87.5° | 19.9   | 19.9   | 36.9   | 68.1   | 161.7  | 456.9  | 576.0  | 439.8  | 411.5  | 133.4  | 76.6   |
| 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°    | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 |
| 2.5°  | 1688.4 | 1688.4 | 1688.4 | 1688.4 | 1685.6 | 1674.2 | 1682.7 | 1679.9 | 1662.9 | 1665.7 | 1654.3 |
| 5°    | 1682.7 | 1696.9 | 1688.4 | 1677.0 | 1662.9 | 1628.8 | 1617.4 | 1608.9 | 1586.2 | 1577.7 | 1586.2 |
| 7.5°  | 1696.9 | 1685.6 | 1679.9 | 1660.0 | 1603.3 | 1572.0 | 1532.3 | 1484.1 | 1450.0 | 1441.5 | 1450.0 |
| 10°   | 1694.1 | 1694.1 | 1668.5 | 1611.8 | 1557.9 | 1467.1 | 1416.0 | 1330.8 | 1282.6 | 1268.4 | 1271.3 |
| 12.5° | 1682.7 | 1691.2 | 1651.5 | 1560.7 | 1458.5 | 1347.9 | 1254.2 | 1163.4 | 1078.3 | 1044.2 | 1038.6 |
| 15°   | 1694.1 | 1685.6 | 1614.6 | 1498.3 | 1356.4 | 1203.2 | 1066.9 | 933.6  | 854.1  | 803.0  | 791.7  |
| 17.5° | 1677.0 | 1668.5 | 1566.4 | 1413.1 | 1223.0 | 1027.2 | 857.0  | 712.2  | 632.8  | 612.9  | 612.9  |
| 20°   | 1696.9 | 1643.0 | 1509.6 | 1311.0 | 1084.0 | 834.3  | 641.3  | 533.5  | 513.6  | 513.6  | 519.3  |
| 22.5° | 1694.1 | 1637.3 | 1461.4 | 1211.7 | 916.6  | 630.0  | 476.7  | 445.5  | 448.3  | 471.0  | 468.2  |
| 25°   | 1677.0 | 1626.0 | 1393.3 | 1101.0 | 740.6  | 473.9  | 394.4  | 385.9  | 405.8  | 431.3  | 428.5  |
| 27.5° | 1674.2 | 1594.7 | 1330.8 | 970.5  | 564.7  | 374.6  | 343.4  | 343.4  | 363.2  | 385.9  | 383.1  |
| 30°   | 1657.2 | 1569.2 | 1254.2 | 822.9  | 425.6  | 326.3  | 315.0  | 315.0  | 323.5  | 334.8  | 334.8  |
| 32.5° | 1654.3 | 1535.2 | 1169.1 | 669.7  | 340.5  | 295.1  | 289.4  | 292.3  | 292.3  | 298.0  | 295.1  |
| 35°   | 1631.6 | 1489.8 | 1081.1 | 519.3  | 295.1  | 278.1  | 272.4  | 269.6  | 269.6  | 266.7  | 266.7  |
| 37.5° | 1623.1 | 1461.4 | 990.3  | 402.9  | 275.3  | 263.9  | 258.2  | 249.7  | 246.9  | 246.9  | 244.0  |
| 40°   | 1631.6 | 1433.0 | 902.4  | 326.3  | 258.2  | 252.5  | 244.0  | 232.7  | 229.8  | 229.8  | 229.8  |
| 42.5° | 1662.9 | 1430.2 | 811.6  | 283.8  | 249.7  | 241.2  | 229.8  | 218.5  | 215.7  | 218.5  | 215.7  |
| 45°   | 1733.8 | 1452.9 | 723.6  | 263.9  | 238.4  | 229.8  | 215.7  | 207.1  | 204.3  | 207.1  | 207.1  |
| 47.5° | 1850.1 | 1515.3 | 644.1  | 252.5  | 229.8  | 218.5  | 204.3  | 195.8  | 195.8  | 195.8  | 195.8  |
| 50°   | 2043.1 | 1634.5 | 567.5  | 244.0  | 224.2  | 210.0  | 195.8  | 184.4  | 181.6  | 181.6  | 184.4  |
| 52.5° | 2332.5 | 1838.8 | 505.1  | 238.4  | 215.7  | 198.6  | 184.4  | 175.9  | 170.3  | 167.4  | 170.3  |
| 55°   | 2681.6 | 2136.7 | 485.2  | 232.7  | 204.3  | 190.1  | 175.9  | 164.6  | 158.9  | 158.9  | 156.1  |
| 57.5° | 3056.1 | 2465.9 | 519.3  | 227.0  | 195.8  | 178.8  | 164.6  | 153.2  | 147.6  | 144.7  | 144.7  |
| 60°   | 3461.9 | 2854.7 | 644.1  | 224.2  | 187.3  | 167.4  | 153.2  | 144.7  | 136.2  | 133.4  | 133.4  |
| 62.5° | 3830.8 | 3206.5 | 868.3  | 221.3  | 181.6  | 156.1  | 141.9  | 130.5  | 124.9  | 122.0  | 122.0  |
| 65°   | 4250.8 | 3598.1 | 1086.8 | 232.7  | 178.8  | 147.6  | 130.5  | 119.2  | 113.5  | 110.7  | 110.7  |
| 67.5° | 4616.8 | 3938.6 | 1214.5 | 261.1  | 187.3  | 136.2  | 116.3  | 107.8  | 105.0  | 102.2  | 102.2  |
| 70°   | 4883.6 | 4043.6 | 814.4  | 286.6  | 201.5  | 127.7  | 105.0  | 99.3   | 93.6   | 93.6   | 93.6   |
| 72.5° | 4526.0 | 3609.5 | 482.4  | 269.6  | 190.1  | 119.2  | 93.6   | 88.0   | 85.1   | 85.1   | 82.3   |
| 75°   | 3870.5 | 3073.2 | 371.7  | 218.5  | 153.2  | 102.2  | 82.3   | 76.6   | 73.8   | 73.8   | 70.9   |
| 77.5° | 2857.5 | 2202.0 | 275.3  | 173.1  | 119.2  | 82.3   | 70.9   | 68.1   | 65.3   | 62.4   | 62.4   |
| 80°   | 1118.0 | 964.8  | 187.3  | 127.7  | 88.0   | 65.3   | 59.6   | 56.8   | 53.9   | 51.1   | 51.1   |
| 82.5° | 346.2  | 292.3  | 107.8  | 85.1   | 62.4   | 51.1   | 48.2   | 45.4   | 42.6   | 39.7   | 39.7   |
| 85°   | 150.4  | 144.7  | 70.9   | 53.9   | 42.6   | 34.1   | 34.1   | 31.2   | 28.4   | 25.5   | 25.5   |
| 87.5° | 73.8   | 70.9   | 39.7   | 25.5   | 22.7   | 17.0   | 17.0   | 14.2   | 11.4   | 11.4   | 11.4   |
| 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)