

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: P676977

Luminaire Tested: **CCW-SA-1F-730-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676977  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-730-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

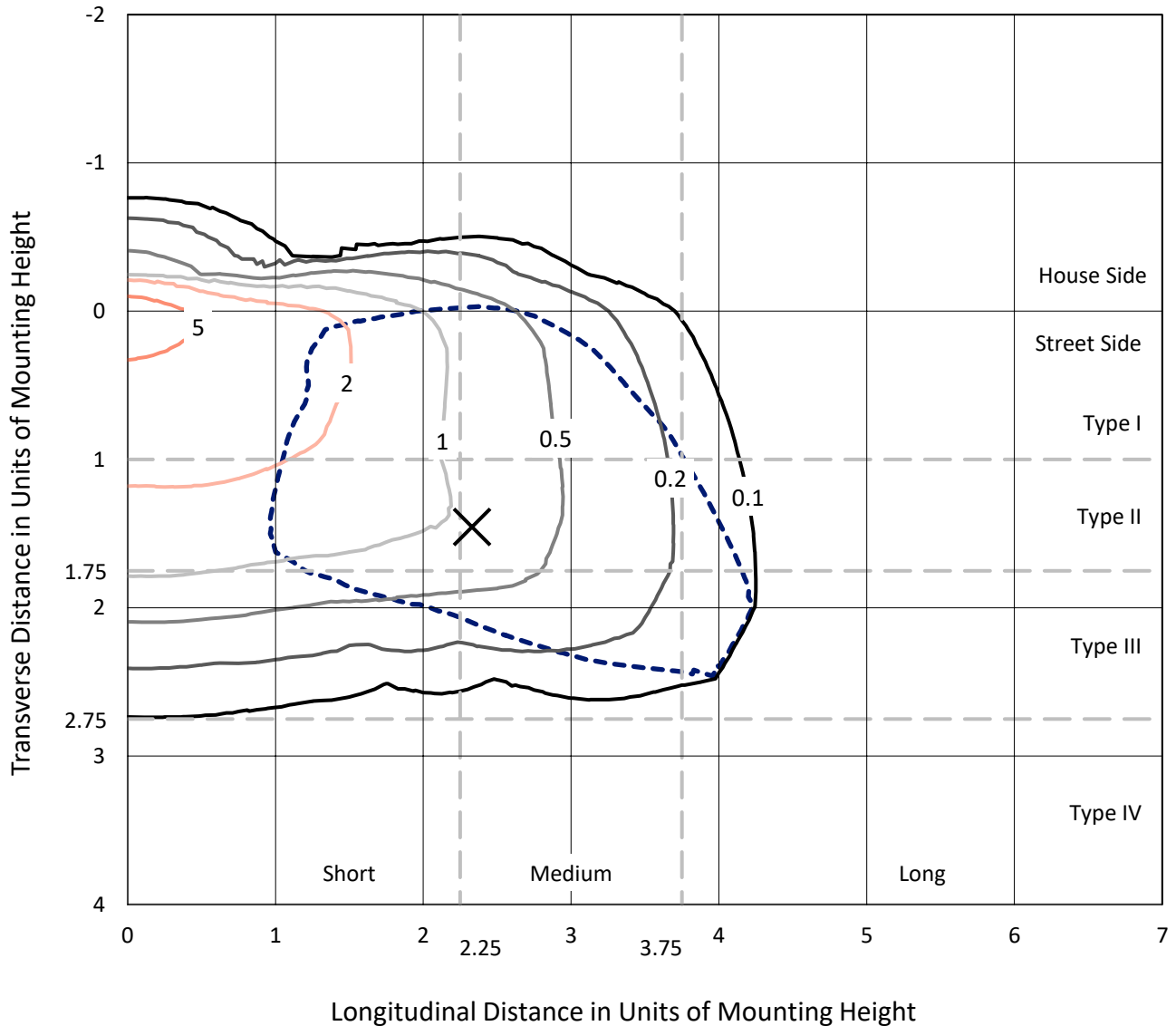
Lumens per Lamp: N/A  
Luminaire Lumens: 5641.8 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

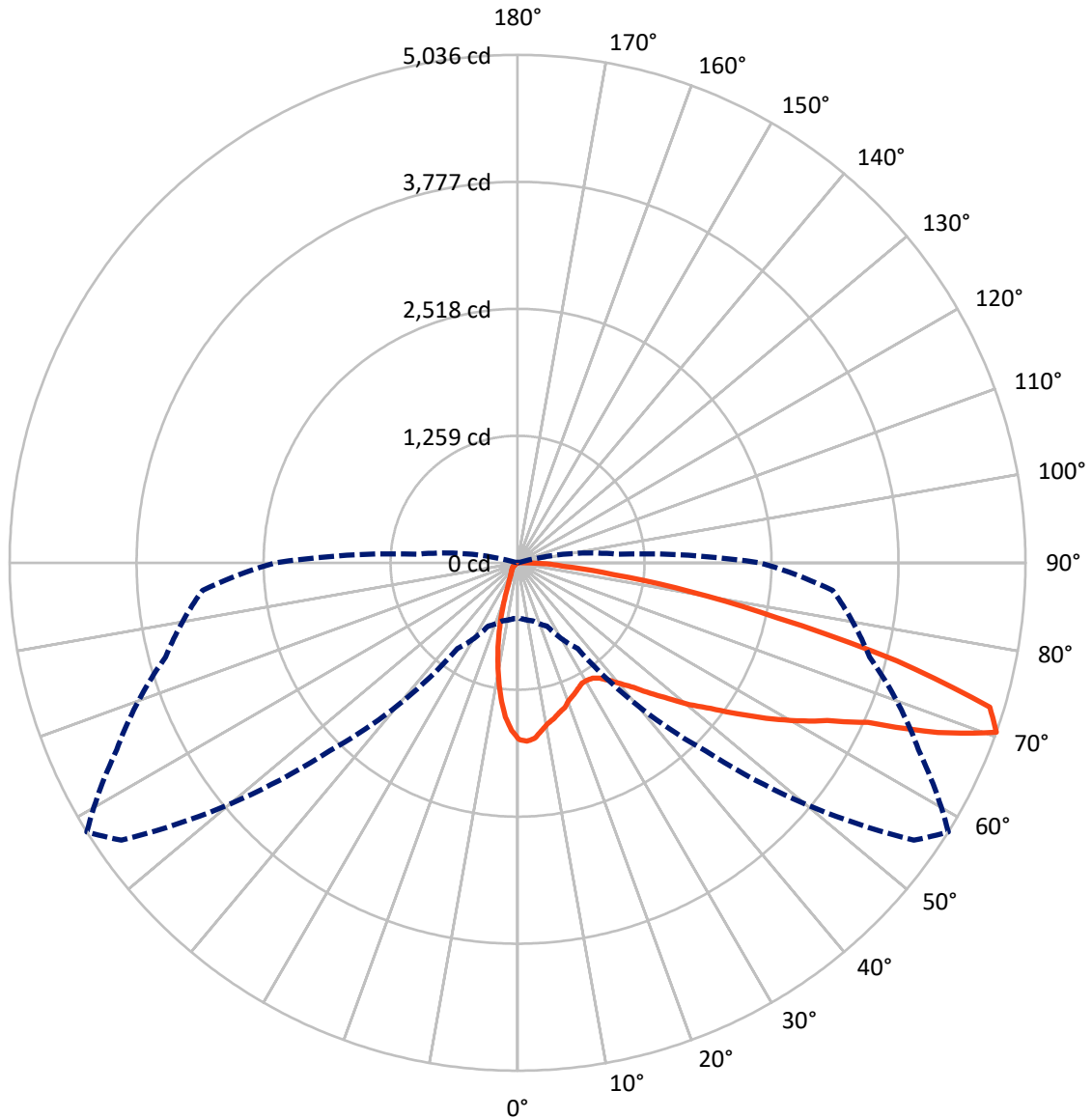
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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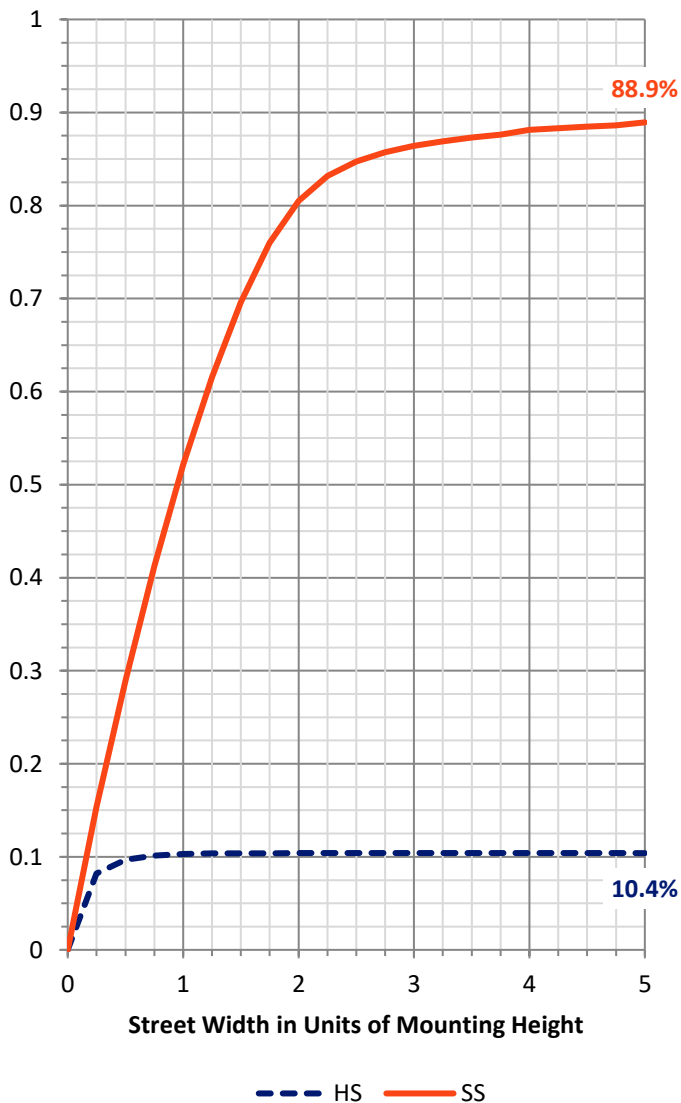
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 590.8    | 0.0    | 590.8  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 5051.0   | 0.0    | 5051.0 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 5641.8   | 0.0    | 5641.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.9  | 2.5       |
| 10°-20°   | 297.5  | 5.3       |
| 20°-30°   | 398.3  | 7.1       |
| 30°-40°   | 538.5  | 9.5       |
| 40°-50°   | 772.8  | 13.7      |
| 50°-60°   | 1138.9 | 20.2      |
| 60°-70°   | 1389.2 | 24.6      |
| 70°-80°   | 848.3  | 15.0      |
| 80°-90°   | 115.2  | 2.0       |
| 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°    | 5641.8 | 100.0     |
| 0°-180°   | 5641.8 | 100.0     |

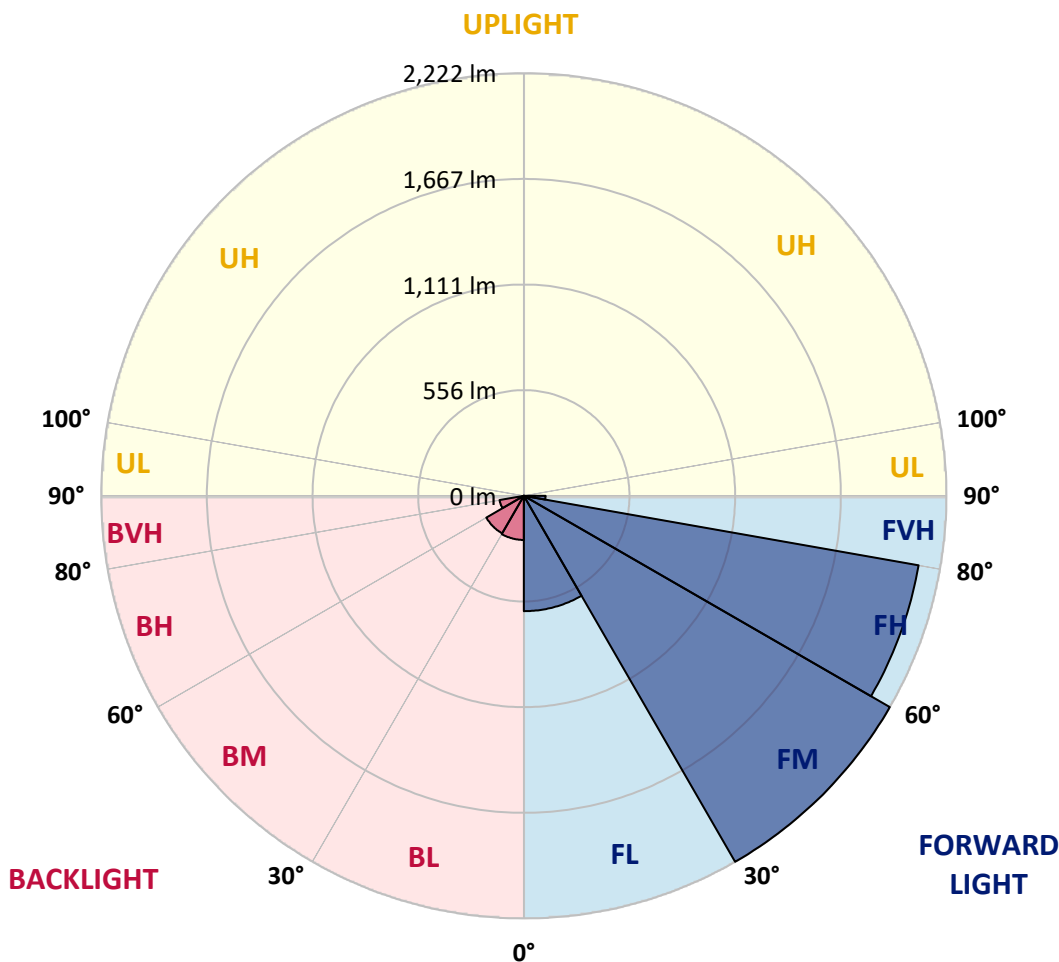


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 606.6  | 10.8      |                         |      |         |
| FM (30°-60°)   | 2222.2 | 39.4      |                         |      |         |
| FH (60°-80°)   | 2108.0 | 37.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 114.1  | 2.0       |                         |      | G2/225  |
| BL (0°-30°)    | 232.2  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 228.0  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 129.5  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.1    | 0.0       |                         |      | G0/10   |
| 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°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 |
| 2.5°  | 1783.1 | 1789.7 | 1773.9 | 1792.4 | 1775.2 | 1783.1 | 1773.9 | 1771.2 | 1772.5 | 1773.9 | 1763.3 |
| 5°    | 1699.8 | 1715.7 | 1722.3 | 1711.7 | 1736.8 | 1732.9 | 1748.7 | 1750.1 | 1743.4 | 1736.8 | 1738.2 |
| 7.5°  | 1590.0 | 1605.9 | 1612.5 | 1619.1 | 1644.2 | 1677.3 | 1698.5 | 1685.2 | 1695.8 | 1719.6 | 1683.9 |
| 10°   | 1510.6 | 1506.7 | 1505.3 | 1518.6 | 1566.2 | 1594.0 | 1629.7 | 1625.7 | 1652.2 | 1674.7 | 1645.6 |
| 12.5° | 1412.7 | 1404.8 | 1428.6 | 1439.2 | 1481.5 | 1530.5 | 1558.3 | 1587.4 | 1613.8 | 1637.6 | 1604.5 |
| 15°   | 1340.0 | 1346.6 | 1355.9 | 1378.4 | 1408.8 | 1473.6 | 1514.6 | 1542.4 | 1590.0 | 1601.9 | 1588.7 |
| 17.5° | 1281.8 | 1287.1 | 1300.3 | 1312.2 | 1350.6 | 1412.7 | 1477.6 | 1510.6 | 1560.9 | 1592.6 | 1551.6 |
| 20°   | 1283.1 | 1267.2 | 1267.2 | 1279.1 | 1300.3 | 1374.4 | 1443.2 | 1453.8 | 1522.5 | 1576.8 | 1549.0 |
| 22.5° | 1284.4 | 1279.1 | 1267.2 | 1265.9 | 1275.2 | 1328.1 | 1398.2 | 1422.0 | 1496.1 | 1559.6 | 1526.5 |
| 25°   | 1303.0 | 1283.1 | 1284.4 | 1265.9 | 1269.9 | 1296.3 | 1351.9 | 1387.6 | 1472.3 | 1568.8 | 1514.6 |
| 27.5° | 1318.8 | 1328.1 | 1309.6 | 1301.6 | 1279.1 | 1277.8 | 1324.1 | 1354.5 | 1460.4 | 1590.0 | 1522.5 |
| 30°   | 1354.5 | 1361.2 | 1361.2 | 1355.9 | 1334.7 | 1304.3 | 1314.9 | 1353.2 | 1436.6 | 1586.0 | 1509.3 |
| 32.5° | 1414.1 | 1402.2 | 1418.0 | 1410.1 | 1382.3 | 1334.7 | 1344.0 | 1363.8 | 1451.1 | 1636.3 | 1530.5 |
| 35°   | 1433.9 | 1443.2 | 1464.3 | 1447.1 | 1437.9 | 1410.1 | 1391.6 | 1406.1 | 1472.3 | 1686.6 | 1562.2 |
| 37.5° | 1494.8 | 1481.5 | 1496.1 | 1534.4 | 1543.7 | 1493.4 | 1457.7 | 1478.9 | 1551.6 | 1746.1 | 1591.3 |
| 40°   | 1500.0 | 1510.6 | 1537.1 | 1612.5 | 1621.7 | 1600.6 | 1571.5 | 1576.8 | 1631.0 | 1822.8 | 1664.1 |
| 42.5° | 1526.5 | 1538.4 | 1592.6 | 1656.1 | 1706.4 | 1710.4 | 1689.2 | 1689.2 | 1735.5 | 1945.8 | 1744.8 |
| 45°   | 1578.1 | 1558.3 | 1628.4 | 1735.5 | 1808.3 | 1822.8 | 1850.6 | 1844.0 | 1881.0 | 2075.5 | 1895.6 |
| 47.5° | 1597.9 | 1604.5 | 1681.3 | 1810.9 | 1894.2 | 1961.7 | 2008.0 | 2009.3 | 2027.8 | 2240.8 | 2091.3 |
| 50°   | 1662.8 | 1661.4 | 1754.0 | 1874.4 | 1997.4 | 2120.4 | 2210.4 | 2210.4 | 2209.1 | 2402.2 | 2259.3 |
| 52.5° | 1748.7 | 1746.1 | 1817.5 | 1960.4 | 2120.4 | 2275.2 | 2394.3 | 2398.2 | 2428.6 | 2600.6 | 2452.5 |
| 55°   | 1888.9 | 1877.0 | 1945.8 | 2051.7 | 2243.5 | 2431.3 | 2637.7 | 2639.0 | 2615.2 | 2742.2 | 2591.4 |
| 57.5° | 2006.7 | 2005.4 | 2062.2 | 2164.1 | 2381.0 | 2632.4 | 2871.8 | 2907.5 | 2832.1 | 2887.7 | 2702.5 |
| 60°   | 1976.3 | 1993.5 | 2111.2 | 2262.0 | 2526.5 | 2883.7 | 3124.4 | 3180.0 | 3059.6 | 2986.9 | 2785.8 |
| 62.5° | 1787.1 | 1826.8 | 1955.1 | 2195.8 | 2649.6 | 3248.8 | 3472.3 | 3447.2 | 3178.7 | 3071.5 | 2887.7 |
| 65°   | 1285.8 | 1325.4 | 1484.2 | 1845.3 | 2506.7 | 3506.7 | 3930.0 | 3816.3 | 3390.3 | 3197.2 | 3023.9 |
| 67.5° | 756.6  | 772.5  | 871.7  | 1177.3 | 1874.4 | 3366.5 | 4485.6 | 4494.9 | 3807.0 | 3390.3 | 3259.4 |
| 70°   | 546.3  | 558.2  | 596.6  | 694.5  | 1038.4 | 2639.0 | 4795.1 | 5035.9 | 4385.1 | 3612.6 | 3135.0 |
| 72.5° | 419.3  | 419.3  | 484.1  | 578.1  | 661.4  | 1580.7 | 4412.8 | 4895.7 | 4510.7 | 3399.6 | 2526.5 |
| 75°   | 301.6  | 309.5  | 379.6  | 497.4  | 609.8  | 793.7  | 3251.4 | 3885.0 | 3822.9 | 2755.4 | 1764.6 |
| 77.5° | 173.3  | 177.3  | 267.2  | 416.7  | 572.8  | 545.0  | 2009.3 | 2633.7 | 2707.8 | 1724.9 | 764.6  |
| 80°   | 88.6   | 91.3   | 149.5  | 329.4  | 518.5  | 474.9  | 1198.5 | 1734.2 | 1470.9 | 501.3  | 177.3  |
| 82.5° | 43.7   | 43.7   | 67.5   | 210.3  | 440.5  | 420.6  | 705.0  | 957.7  | 521.2  | 115.1  | 74.1   |
| 85°   | 14.6   | 15.9   | 30.4   | 119.1  | 318.8  | 254.0  | 431.2  | 455.0  | 174.6  | 43.7   | 41.0   |
| 87.5° | 4.0    | 5.3    | 7.9    | 43.7   | 138.9  | 166.7  | 256.6  | 291.0  | 71.4   | 17.2   | 19.8   |
| 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°    | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 | 1751.4 |
| 2.5°  | 1723.6 | 1714.3 | 1703.8 | 1677.3 | 1656.1 | 1628.4 | 1609.8 | 1595.3 | 1567.5 | 1572.8 | 1560.9 |
| 5°    | 1706.4 | 1689.2 | 1628.4 | 1570.2 | 1517.2 | 1436.6 | 1381.0 | 1345.3 | 1316.2 | 1287.1 | 1308.2 |
| 7.5°  | 1676.0 | 1635.0 | 1539.7 | 1431.3 | 1318.8 | 1213.0 | 1107.2 | 1043.7 | 997.4  | 955.1  | 953.7  |
| 10°   | 1624.4 | 1558.3 | 1408.8 | 1267.2 | 1094.0 | 955.1  | 820.1  | 714.3  | 645.5  | 595.3  | 593.9  |
| 12.5° | 1566.2 | 1497.4 | 1309.6 | 1079.4 | 879.7  | 683.9  | 522.5  | 410.1  | 345.2  | 305.6  | 300.3  |
| 15°   | 1529.1 | 1428.6 | 1185.2 | 912.7  | 665.4  | 445.8  | 289.7  | 219.6  | 194.5  | 185.2  | 185.2  |
| 17.5° | 1481.5 | 1366.4 | 1062.2 | 739.4  | 461.7  | 257.9  | 187.8  | 169.3  | 168.0  | 165.3  | 162.7  |
| 20°   | 1461.7 | 1318.8 | 952.4  | 590.0  | 292.3  | 182.5  | 161.4  | 157.4  | 157.4  | 154.8  | 152.1  |
| 22.5° | 1408.8 | 1250.0 | 836.0  | 432.6  | 194.5  | 160.1  | 152.1  | 146.8  | 144.2  | 141.5  | 144.2  |
| 25°   | 1385.0 | 1201.1 | 726.2  | 299.0  | 158.7  | 142.9  | 138.9  | 133.6  | 129.6  | 128.3  | 128.3  |
| 27.5° | 1369.1 | 1152.2 | 619.1  | 207.7  | 140.2  | 131.0  | 123.0  | 119.1  | 113.8  | 108.5  | 108.5  |
| 30°   | 1357.2 | 1113.8 | 515.9  | 153.4  | 125.7  | 116.4  | 109.8  | 100.5  | 93.9   | 88.6   | 88.6   |
| 32.5° | 1341.3 | 1068.8 | 412.7  | 131.0  | 113.8  | 104.5  | 92.6   | 84.7   | 75.4   | 71.4   | 71.4   |
| 35°   | 1346.6 | 1038.4 | 324.1  | 116.4  | 101.9  | 89.9   | 79.4   | 68.8   | 59.5   | 55.6   | 54.2   |
| 37.5° | 1357.2 | 1015.9 | 246.0  | 104.5  | 91.3   | 78.0   | 66.1   | 54.2   | 48.9   | 43.7   | 43.7   |
| 40°   | 1402.2 | 1009.3 | 181.2  | 96.6   | 83.3   | 68.8   | 55.6   | 45.0   | 39.7   | 35.7   | 34.4   |
| 42.5° | 1477.6 | 1018.6 | 140.2  | 87.3   | 75.4   | 58.2   | 46.3   | 37.0   | 31.7   | 27.8   | 26.5   |
| 45°   | 1574.1 | 1054.3 | 115.1  | 82.0   | 66.1   | 48.9   | 37.0   | 30.4   | 23.8   | 21.2   | 21.2   |
| 47.5° | 1714.3 | 1109.8 | 100.5  | 75.4   | 58.2   | 41.0   | 31.7   | 23.8   | 18.5   | 15.9   | 15.9   |
| 50°   | 1873.1 | 1173.3 | 88.6   | 67.5   | 50.3   | 34.4   | 25.1   | 18.5   | 13.2   | 11.9   | 11.9   |
| 52.5° | 2031.8 | 1254.0 | 82.0   | 62.2   | 43.7   | 27.8   | 19.8   | 13.2   | 9.3    | 7.9    | 7.9    |
| 55°   | 2198.5 | 1325.4 | 74.1   | 58.2   | 35.7   | 22.5   | 14.6   | 7.9    | 5.3    | 4.0    | 4.0    |
| 57.5° | 2314.9 | 1353.2 | 64.8   | 50.3   | 27.8   | 17.2   | 10.6   | 5.3    | 2.6    | 1.3    | 1.3    |
| 60°   | 2398.2 | 1357.2 | 55.6   | 41.0   | 21.2   | 13.2   | 6.6    | 2.6    | 1.3    | 0.0    | 0.0    |
| 62.5° | 2468.3 | 1365.1 | 47.6   | 31.7   | 15.9   | 9.3    | 4.0    | 1.3    | 0.0    | 0.0    | 0.0    |
| 65°   | 2607.2 | 1358.5 | 38.4   | 25.1   | 10.6   | 5.3    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2717.0 | 1292.4 | 30.4   | 17.2   | 6.6    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 2403.5 | 985.5  | 23.8   | 11.9   | 4.0    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1887.6 | 657.4  | 15.9   | 6.6    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1238.1 | 326.7  | 11.9   | 4.0    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 481.5  | 86.0   | 7.9    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 116.4  | 29.1   | 4.0    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 50.3   | 10.6   | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 30.4   | 5.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.9   | 2.6    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)