

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: P675485

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675485  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-840-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SL2 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

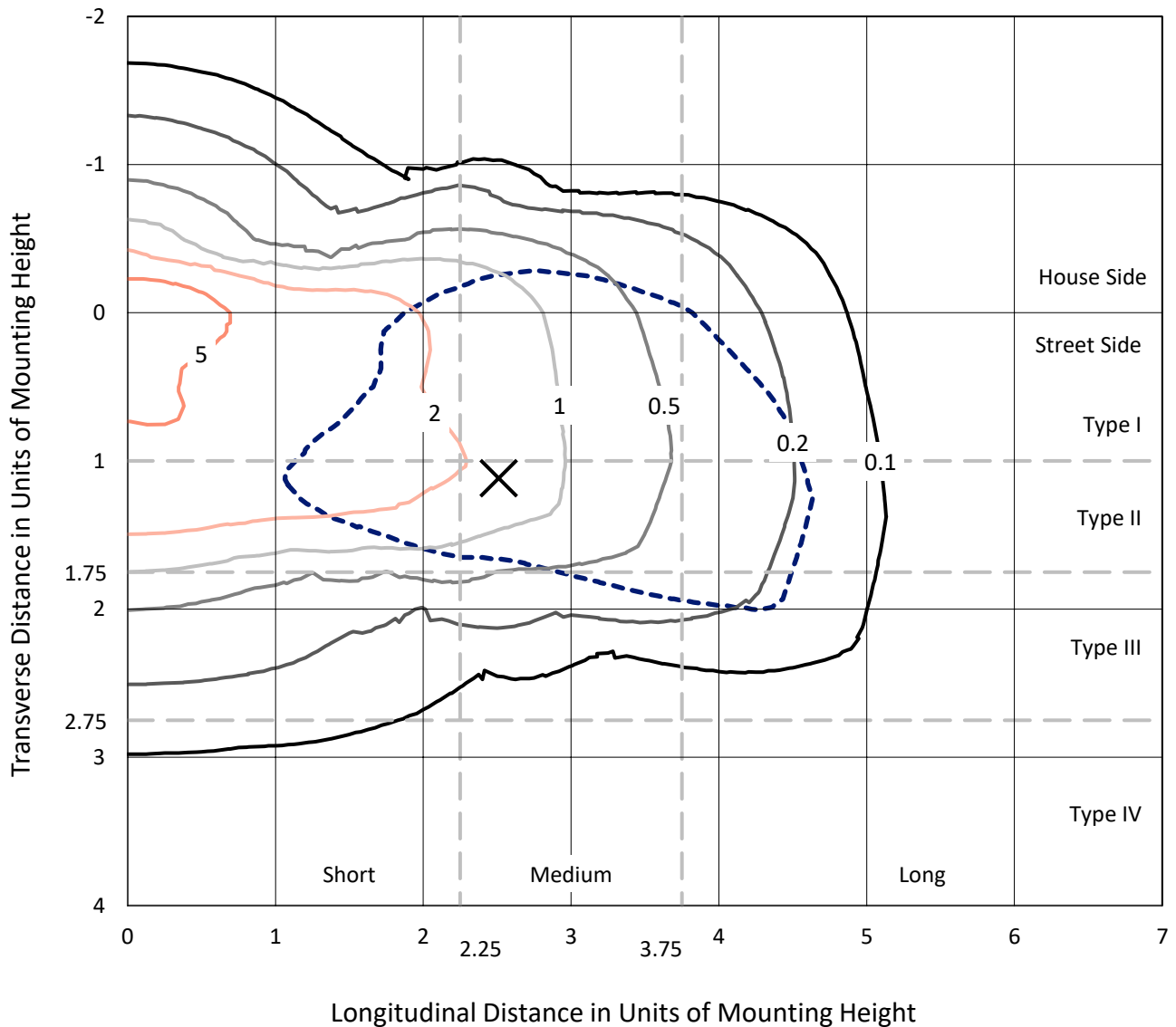
Lumens per Lamp: N/A  
Luminaire Lumens: 9410.8 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

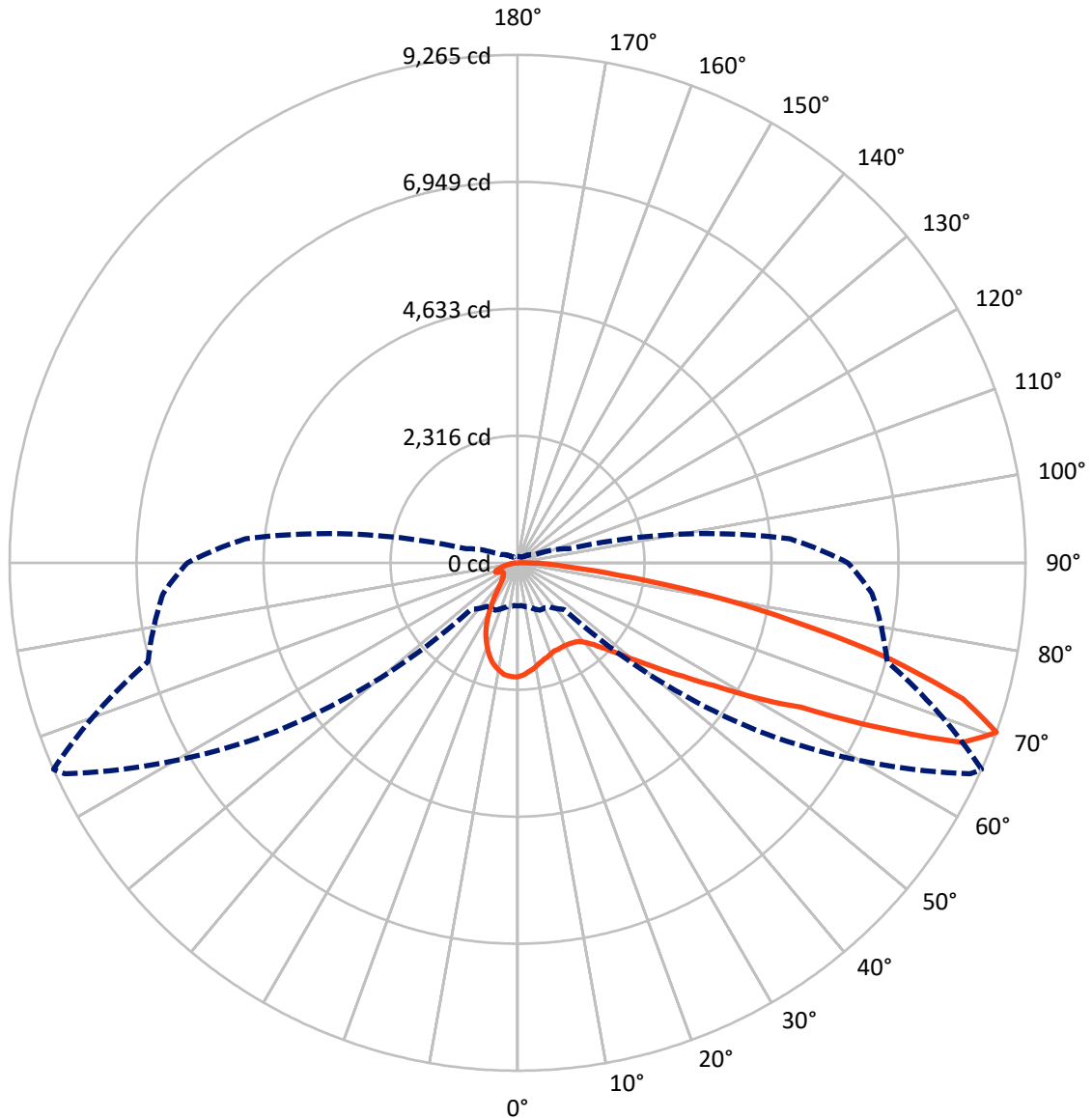
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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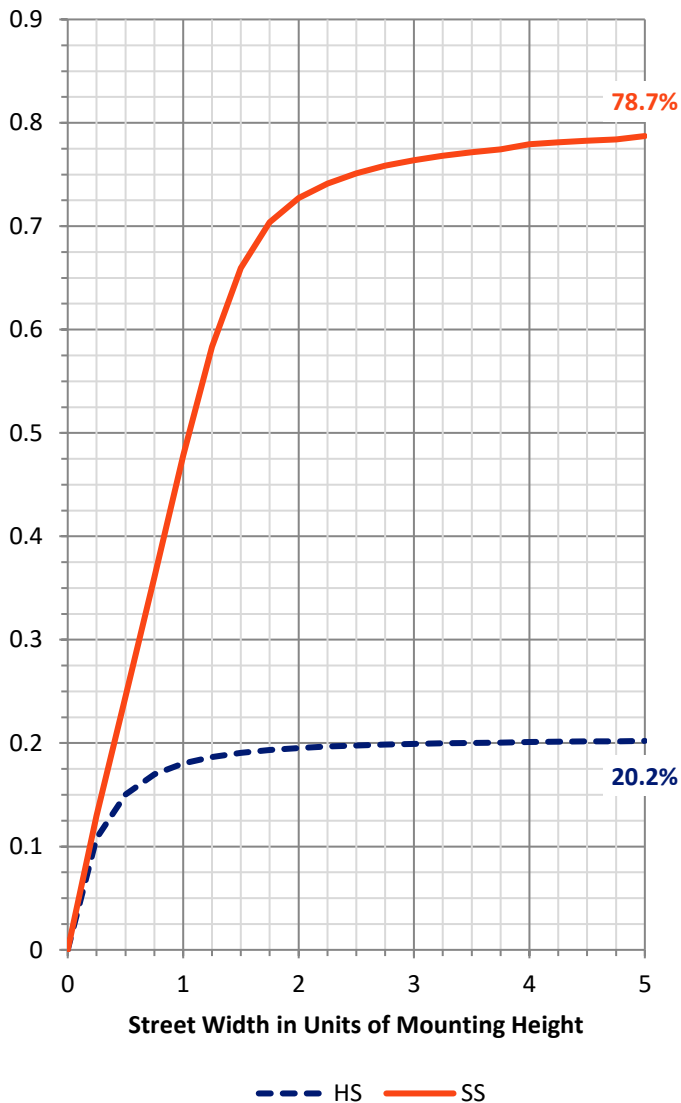
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1926.2   | 0.0    | 1926.2 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 7484.5   | 0.0    | 7484.5 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 9410.8   | 0.0    | 9410.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 183.8  | 2.0       |
| 10°-20°   | 452.6  | 4.8       |
| 20°-30°   | 621.5  | 6.6       |
| 30°-40°   | 833.3  | 8.9       |
| 40°-50°   | 1209.1 | 12.8      |
| 50°-60°   | 1837.8 | 19.5      |
| 60°-70°   | 2269.8 | 24.1      |
| 70°-80°   | 1687.9 | 17.9      |
| 80°-90°   | 314.8  | 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°    | 9410.8 | 100.0     |
| 0°-180°   | 9410.8 | 100.0     |

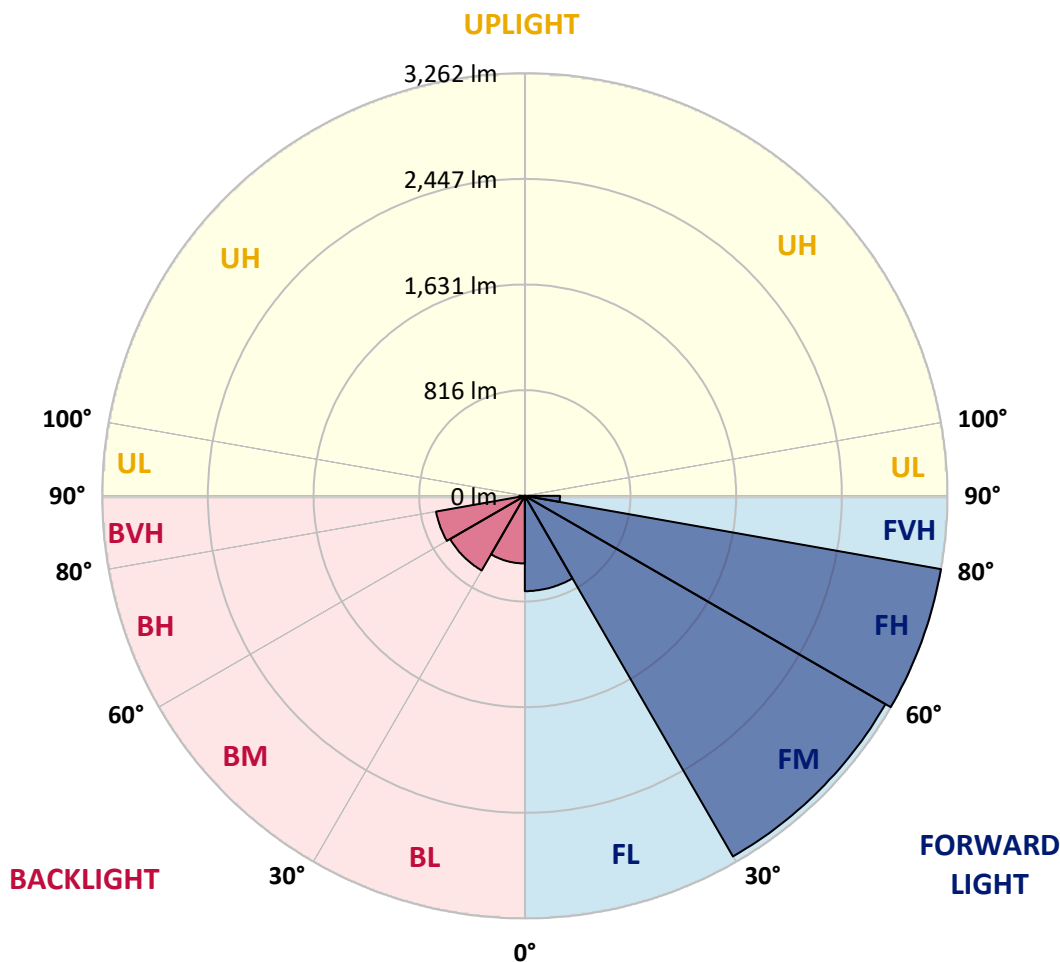


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 735.9  | 7.8       |                         |      |         |
| FM (30°-60°)   | 3214.9 | 34.2      |                         |      |         |
| FH (60°-80°)   | 3262.4 | 34.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 271.4  | 2.9       |                         |      | G3/500  |
| BL (0°-30°)    | 522.1  | 5.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 665.4  | 7.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 695.3  | 7.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 43.4   | 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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 |
| 2.5°  | 1977.6 | 1988.1 | 1991.6 | 1998.6 | 2016.1 | 2030.1 | 2051.1 | 2061.6 | 2051.1 | 2065.1 | 2065.1 |
| 5°    | 1841.1 | 1827.1 | 1862.1 | 1876.1 | 1897.1 | 1925.1 | 1974.1 | 2012.6 | 2002.1 | 2044.1 | 2079.1 |
| 7.5°  | 1725.6 | 1725.6 | 1736.1 | 1767.6 | 1792.1 | 1834.1 | 1886.6 | 1946.1 | 1963.6 | 2019.6 | 2072.1 |
| 10°   | 1620.6 | 1634.6 | 1634.6 | 1683.6 | 1697.6 | 1746.6 | 1834.1 | 1907.6 | 1911.1 | 2005.6 | 2079.1 |
| 12.5° | 1564.6 | 1557.6 | 1592.6 | 1606.6 | 1648.6 | 1697.6 | 1767.6 | 1858.6 | 1862.1 | 1963.6 | 2065.1 |
| 15°   | 1519.1 | 1526.1 | 1543.6 | 1578.6 | 1617.1 | 1655.6 | 1722.1 | 1806.1 | 1823.6 | 1942.6 | 2058.1 |
| 17.5° | 1522.6 | 1526.1 | 1526.1 | 1550.6 | 1582.1 | 1627.6 | 1690.6 | 1788.6 | 1799.1 | 1914.6 | 2047.6 |
| 20°   | 1543.6 | 1529.6 | 1540.1 | 1550.6 | 1571.6 | 1613.6 | 1666.1 | 1750.1 | 1760.6 | 1911.1 | 2072.1 |
| 22.5° | 1589.1 | 1578.6 | 1575.1 | 1571.6 | 1568.1 | 1592.6 | 1659.1 | 1729.1 | 1739.6 | 1893.6 | 2082.6 |
| 25°   | 1662.6 | 1659.1 | 1634.6 | 1610.1 | 1592.6 | 1592.6 | 1645.1 | 1746.6 | 1743.1 | 1893.6 | 2089.6 |
| 27.5° | 1750.1 | 1750.1 | 1746.6 | 1701.1 | 1648.6 | 1620.6 | 1655.6 | 1739.6 | 1736.1 | 1893.6 | 2107.1 |
| 30°   | 1869.1 | 1869.1 | 1858.6 | 1816.6 | 1722.1 | 1641.6 | 1662.6 | 1732.6 | 1743.1 | 1879.6 | 2093.1 |
| 32.5° | 1998.6 | 1995.1 | 2005.6 | 1967.1 | 1869.1 | 1739.6 | 1704.6 | 1746.6 | 1757.1 | 1893.6 | 2096.6 |
| 35°   | 2093.1 | 2114.1 | 2149.1 | 2114.1 | 2016.1 | 1841.1 | 1764.1 | 1774.6 | 1781.6 | 1897.1 | 2110.6 |
| 37.5° | 2201.6 | 2226.2 | 2275.2 | 2303.2 | 2198.1 | 1995.1 | 1858.6 | 1820.1 | 1820.1 | 1942.6 | 2114.1 |
| 40°   | 2359.2 | 2334.7 | 2418.7 | 2467.7 | 2425.7 | 2184.1 | 2005.6 | 1904.1 | 1907.6 | 2002.1 | 2159.6 |
| 42.5° | 2474.7 | 2499.2 | 2586.7 | 2674.2 | 2621.7 | 2415.2 | 2166.6 | 2040.6 | 2040.6 | 2089.6 | 2229.7 |
| 45°   | 2604.2 | 2632.2 | 2754.7 | 2859.7 | 2898.2 | 2691.7 | 2387.2 | 2236.7 | 2229.7 | 2261.2 | 2355.7 |
| 47.5° | 2747.7 | 2786.2 | 2926.2 | 3048.7 | 3150.2 | 2978.7 | 2670.7 | 2474.7 | 2471.2 | 2495.7 | 2565.7 |
| 50°   | 2912.2 | 2926.2 | 3041.7 | 3265.7 | 3468.7 | 3360.2 | 3017.2 | 2810.7 | 2793.2 | 2803.7 | 2898.2 |
| 52.5° | 2961.2 | 2950.7 | 3083.7 | 3325.2 | 3696.3 | 3825.8 | 3489.7 | 3192.2 | 3185.2 | 3160.7 | 3283.2 |
| 55°   | 2782.7 | 2817.7 | 2947.2 | 3255.2 | 3881.8 | 4375.3 | 4007.8 | 3713.8 | 3650.7 | 3584.2 | 3731.3 |
| 57.5° | 2425.7 | 2429.2 | 2576.2 | 2940.2 | 3738.3 | 4830.3 | 4886.3 | 4224.8 | 4228.3 | 4049.8 | 4217.8 |
| 60°   | 1886.6 | 1876.1 | 1991.6 | 2320.7 | 3328.7 | 4970.3 | 5845.4 | 5040.3 | 5005.3 | 4515.3 | 4669.3 |
| 62.5° | 1361.6 | 1340.6 | 1365.1 | 1557.6 | 2488.7 | 4756.8 | 6787.0 | 5953.9 | 5806.9 | 4991.3 | 5110.3 |
| 65°   | 1120.1 | 1130.6 | 1141.1 | 1151.6 | 1396.6 | 3923.8 | 7077.5 | 7445.0 | 7249.0 | 5547.9 | 5596.9 |
| 67.5° | 927.6  | 934.6  | 980.1  | 1043.1 | 1036.1 | 2317.2 | 6741.5 | 8824.1 | 8750.6 | 6237.4 | 6016.9 |
| 70°   | 787.6  | 784.1  | 836.6  | 952.1  | 969.6  | 1204.1 | 5337.9 | 9107.6 | 9265.1 | 6979.5 | 6492.9 |
| 72.5° | 630.0  | 637.0  | 682.5  | 836.6  | 952.1  | 1015.1 | 3073.2 | 8498.6 | 8495.1 | 7550.0 | 6237.4 |
| 75°   | 451.5  | 451.5  | 514.5  | 693.0  | 920.6  | 1004.6 | 1701.1 | 6899.0 | 7028.5 | 7095.0 | 5411.4 |
| 77.5° | 297.5  | 311.5  | 360.5  | 518.0  | 864.6  | 983.6  | 1078.1 | 5015.8 | 5176.9 | 5306.4 | 4140.8 |
| 80°   | 203.0  | 210.0  | 241.5  | 360.5  | 731.5  | 990.6  | 882.1  | 3374.2 | 3437.2 | 2929.7 | 1680.1 |
| 82.5° | 122.5  | 126.0  | 161.0  | 252.0  | 525.0  | 941.6  | 829.6  | 1862.1 | 1823.6 | 885.6  | 483.0  |
| 85°   | 66.5   | 70.0   | 101.5  | 168.0  | 346.5  | 822.6  | 815.6  | 913.6  | 850.6  | 325.5  | 203.0  |
| 87.5° | 24.5   | 24.5   | 45.5   | 84.0   | 199.5  | 563.5  | 710.5  | 542.5  | 507.5  | 164.5  | 94.5   |
| 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°    | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 | 2079.1 |
| 2.5°  | 2082.6 | 2082.6 | 2082.6 | 2082.6 | 2079.1 | 2065.1 | 2075.6 | 2072.1 | 2051.1 | 2054.6 | 2040.6 |
| 5°    | 2075.6 | 2093.1 | 2082.6 | 2068.6 | 2051.1 | 2009.1 | 1995.1 | 1984.6 | 1956.6 | 1946.1 | 1956.6 |
| 7.5°  | 2093.1 | 2079.1 | 2072.1 | 2047.6 | 1977.6 | 1939.1 | 1890.1 | 1830.6 | 1788.6 | 1778.1 | 1788.6 |
| 10°   | 2089.6 | 2089.6 | 2058.1 | 1988.1 | 1921.6 | 1809.6 | 1746.6 | 1641.6 | 1582.1 | 1564.6 | 1568.1 |
| 12.5° | 2075.6 | 2086.1 | 2037.1 | 1925.1 | 1799.1 | 1662.6 | 1547.1 | 1435.1 | 1330.1 | 1288.1 | 1281.1 |
| 15°   | 2089.6 | 2079.1 | 1991.6 | 1848.1 | 1673.1 | 1484.1 | 1316.1 | 1151.6 | 1053.6 | 990.6  | 976.6  |
| 17.5° | 2068.6 | 2058.1 | 1932.1 | 1743.1 | 1508.6 | 1267.1 | 1057.1 | 878.6  | 780.6  | 756.1  | 756.1  |
| 20°   | 2093.1 | 2026.6 | 1862.1 | 1617.1 | 1337.1 | 1029.1 | 791.1  | 658.0  | 633.5  | 633.5  | 640.5  |
| 22.5° | 2089.6 | 2019.6 | 1802.6 | 1494.6 | 1130.6 | 777.1  | 588.0  | 549.5  | 553.0  | 581.0  | 577.5  |
| 25°   | 2068.6 | 2005.6 | 1718.6 | 1358.1 | 913.6  | 584.5  | 486.5  | 476.0  | 500.5  | 532.0  | 528.5  |
| 27.5° | 2065.1 | 1967.1 | 1641.6 | 1197.1 | 696.5  | 462.0  | 423.5  | 423.5  | 448.0  | 476.0  | 472.5  |
| 30°   | 2044.1 | 1935.6 | 1547.1 | 1015.1 | 525.0  | 402.5  | 388.5  | 388.5  | 399.0  | 413.0  | 413.0  |
| 32.5° | 2040.6 | 1893.6 | 1442.1 | 826.1  | 420.0  | 364.0  | 357.0  | 360.5  | 360.5  | 367.5  | 364.0  |
| 35°   | 2012.6 | 1837.6 | 1333.6 | 640.5  | 364.0  | 343.0  | 336.0  | 332.5  | 332.5  | 329.0  | 329.0  |
| 37.5° | 2002.1 | 1802.6 | 1221.6 | 497.0  | 339.5  | 325.5  | 318.5  | 308.0  | 304.5  | 304.5  | 301.0  |
| 40°   | 2012.6 | 1767.6 | 1113.1 | 402.5  | 318.5  | 311.5  | 301.0  | 287.0  | 283.5  | 283.5  | 283.5  |
| 42.5° | 2051.1 | 1764.1 | 1001.1 | 350.0  | 308.0  | 297.5  | 283.5  | 269.5  | 266.0  | 269.5  | 266.0  |
| 45°   | 2138.6 | 1792.1 | 892.6  | 325.5  | 294.0  | 283.5  | 266.0  | 255.5  | 252.0  | 255.5  | 255.5  |
| 47.5° | 2282.2 | 1869.1 | 794.6  | 311.5  | 283.5  | 269.5  | 252.0  | 241.5  | 241.5  | 241.5  | 241.5  |
| 50°   | 2520.2 | 2016.1 | 700.0  | 301.0  | 276.5  | 259.0  | 241.5  | 227.5  | 224.0  | 224.0  | 227.5  |
| 52.5° | 2877.2 | 2268.2 | 623.0  | 294.0  | 266.0  | 245.0  | 227.5  | 217.0  | 210.0  | 206.5  | 210.0  |
| 55°   | 3307.7 | 2635.7 | 598.5  | 287.0  | 252.0  | 234.5  | 217.0  | 203.0  | 196.0  | 196.0  | 192.5  |
| 57.5° | 3769.8 | 3041.7 | 640.5  | 280.0  | 241.5  | 220.5  | 203.0  | 189.0  | 182.0  | 178.5  | 178.5  |
| 60°   | 4270.3 | 3521.2 | 794.6  | 276.5  | 231.0  | 206.5  | 189.0  | 178.5  | 168.0  | 164.5  | 164.5  |
| 62.5° | 4725.3 | 3955.3 | 1071.1 | 273.0  | 224.0  | 192.5  | 175.0  | 161.0  | 154.0  | 150.5  | 150.5  |
| 65°   | 5243.4 | 4438.3 | 1340.6 | 287.0  | 220.5  | 182.0  | 161.0  | 147.0  | 140.0  | 136.5  | 136.5  |
| 67.5° | 5694.9 | 4858.3 | 1498.1 | 322.0  | 231.0  | 168.0  | 143.5  | 133.0  | 129.5  | 126.0  | 126.0  |
| 70°   | 6023.9 | 4987.8 | 1004.6 | 353.5  | 248.5  | 157.5  | 129.5  | 122.5  | 115.5  | 115.5  | 115.5  |
| 72.5° | 5582.9 | 4452.3 | 595.0  | 332.5  | 234.5  | 147.0  | 115.5  | 108.5  | 105.0  | 105.0  | 101.5  |
| 75°   | 4774.3 | 3790.8 | 458.5  | 269.5  | 189.0  | 126.0  | 101.5  | 94.5   | 91.0   | 91.0   | 87.5   |
| 77.5° | 3524.7 | 2716.2 | 339.5  | 213.5  | 147.0  | 101.5  | 87.5   | 84.0   | 80.5   | 77.0   | 77.0   |
| 80°   | 1379.1 | 1190.1 | 231.0  | 157.5  | 108.5  | 80.5   | 73.5   | 70.0   | 66.5   | 63.0   | 63.0   |
| 82.5° | 427.0  | 360.5  | 133.0  | 105.0  | 77.0   | 63.0   | 59.5   | 56.0   | 52.5   | 49.0   | 49.0   |
| 85°   | 185.5  | 178.5  | 87.5   | 66.5   | 52.5   | 42.0   | 42.0   | 38.5   | 35.0   | 31.5   | 31.5   |
| 87.5° | 91.0   | 87.5   | 49.0   | 31.5   | 28.0   | 21.0   | 21.0   | 17.5   | 14.0   | 14.0   | 14.0   |
| 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)