

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: P674152

Luminaire Tested: **CCP-SA-1E-760-U-SLL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674152  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-760-U-SLL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SLL distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

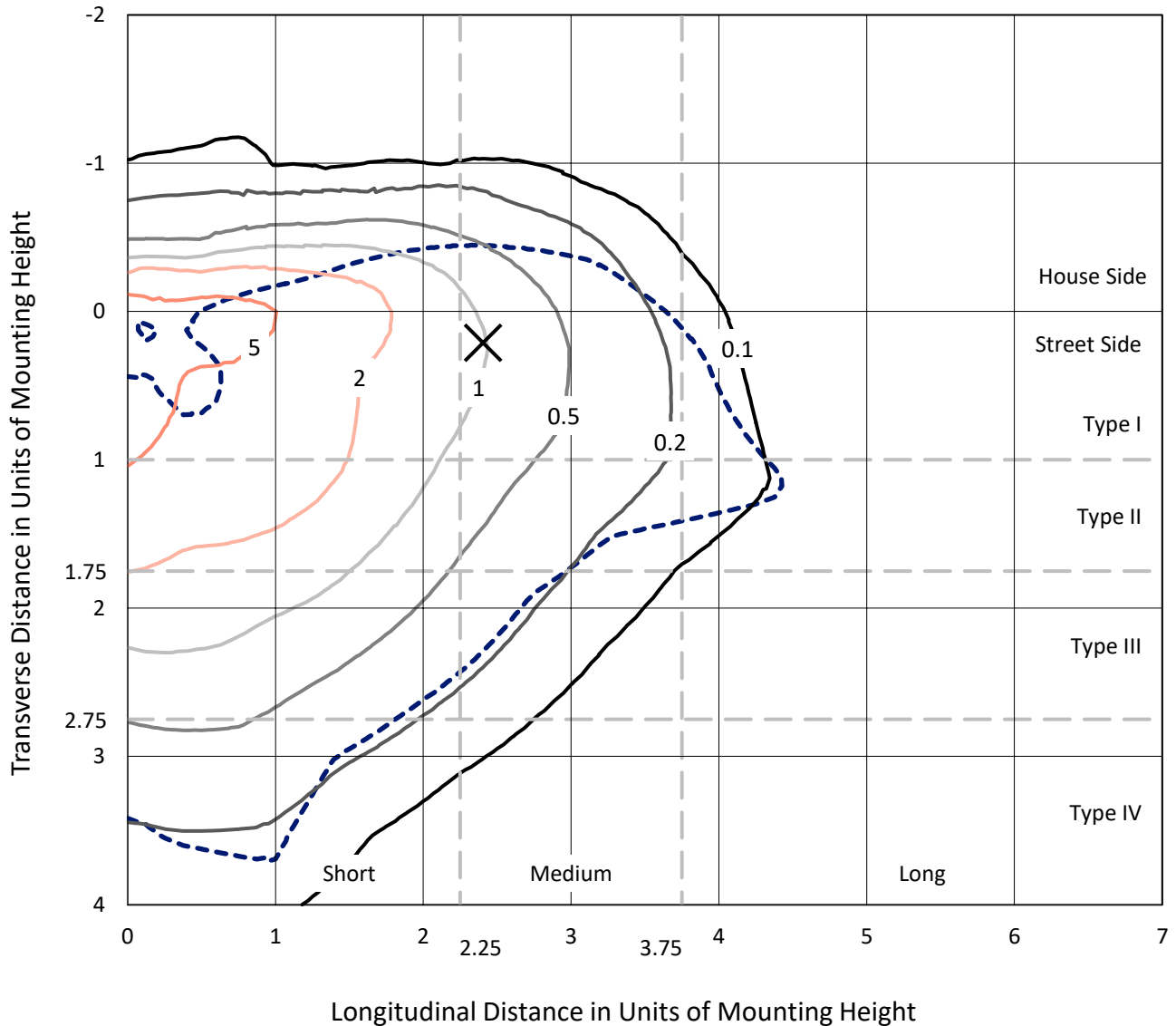
Lumens per Lamp: N/A  
Luminaire Lumens: 5074.1 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

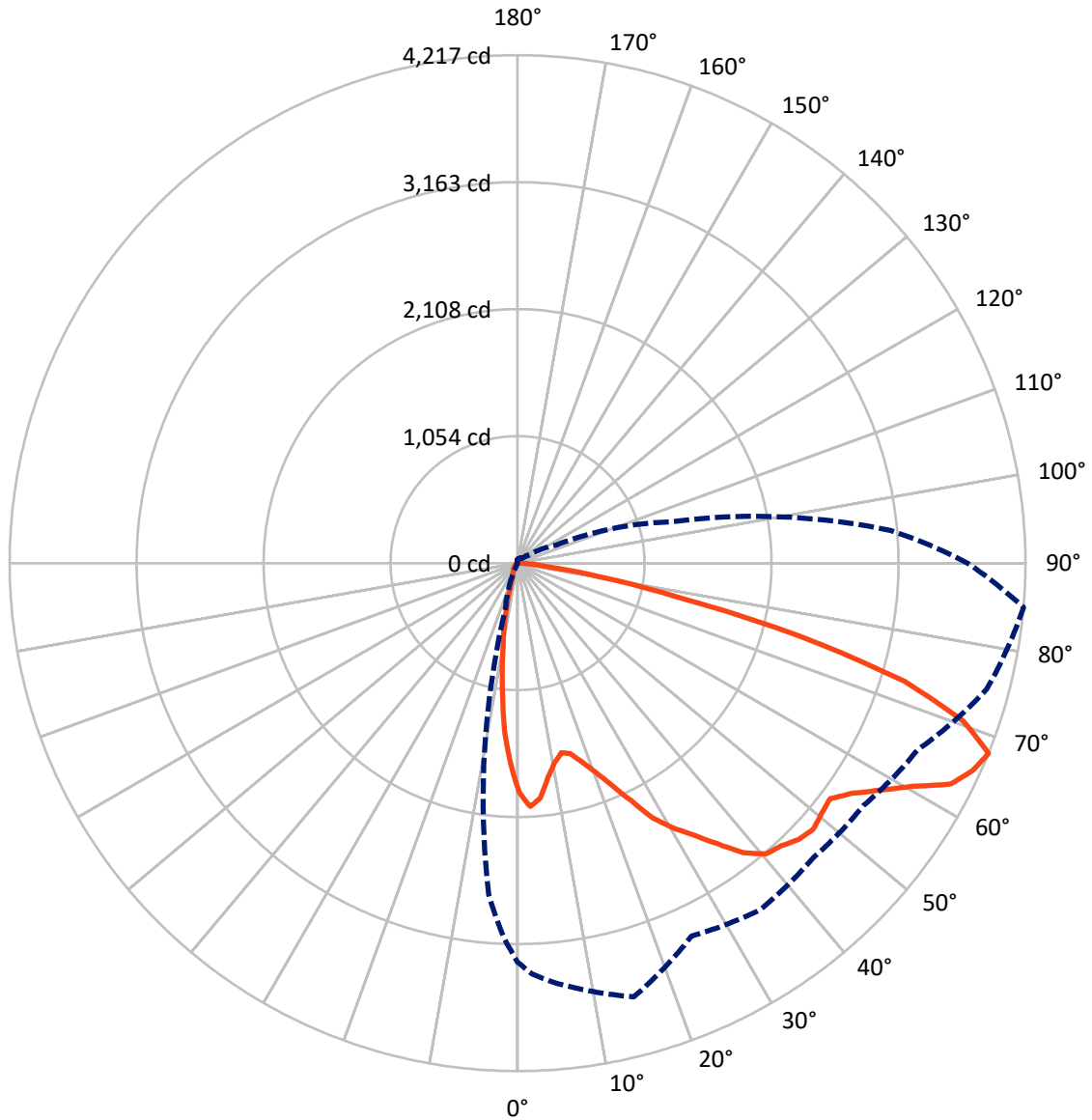
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 881.0    | 0.0    | 881.0  |
|                    | % Fixture | 17.4     | 0.0    | 17.4   |
| <b>Street Side</b> | Lumens    | 4193.1   | 0.0    | 4193.1 |
|                    | % Fixture | 82.6     | 0.0    | 82.6   |
| <b>Total</b>       | Lumens    | 5074.1   | 0.0    | 5074.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.9  | 2.9       |
| 10°-20°   | 284.2  | 5.6       |
| 20°-30°   | 393.3  | 7.8       |
| 30°-40°   | 555.8  | 11.0      |
| 40°-50°   | 756.8  | 14.9      |
| 50°-60°   | 1002.3 | 19.8      |
| 60°-70°   | 1163.8 | 22.9      |
| 70°-80°   | 659.1  | 13.0      |
| 80°-90°   | 113.9  | 2.2       |
| 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°    | 5074.1 | 100.0     |
| 0°-180°   | 5074.1 | 100.0     |



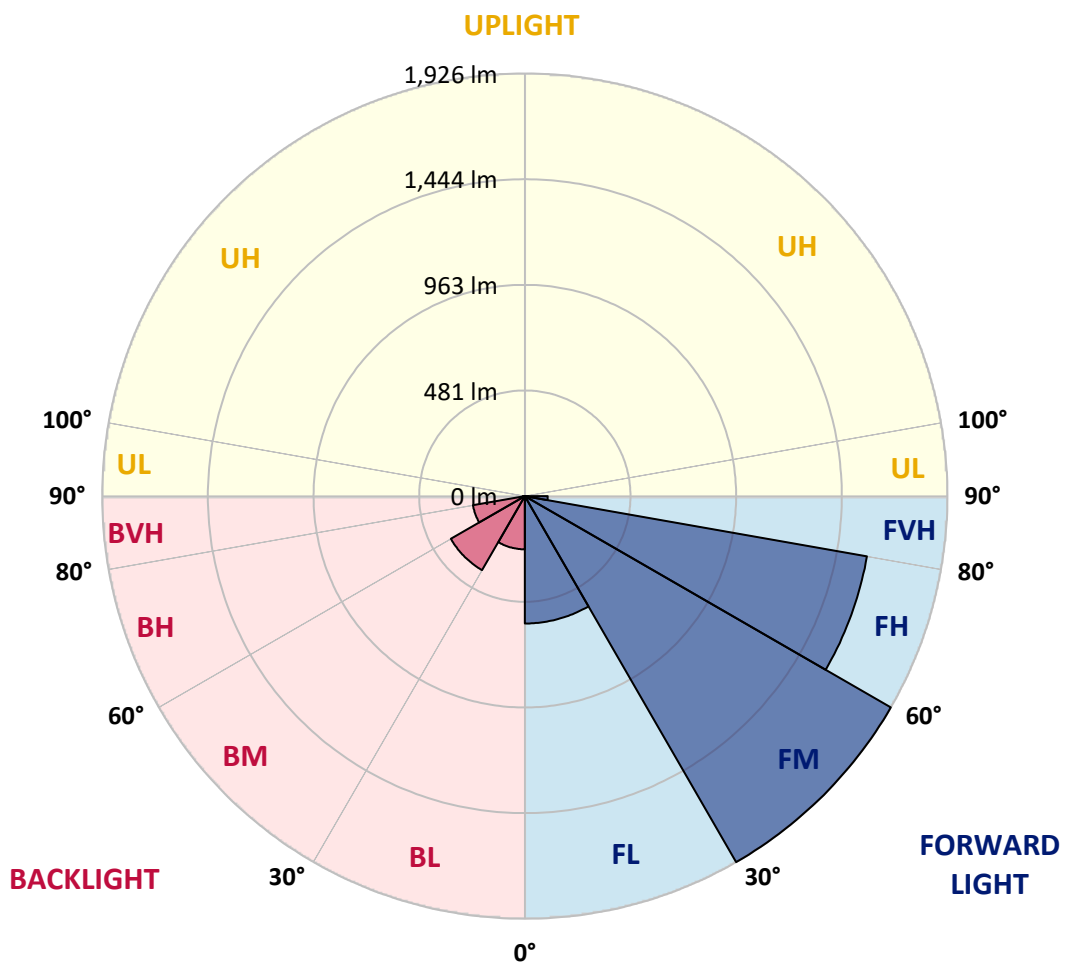
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 580.3  | 11.4      |                         |      |         |
| FM (30°-60°)   | 1925.7 | 38.0      |                         |      |         |
| FH (60°-80°)   | 1582.9 | 31.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 104.3  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 242.2  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 389.3  | 7.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 239.9  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.6    | 0.2       |                         |      | 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°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
| 2.5°  | 1982.4 | 2024.4 | 2025.7 | 2044.7 | 2063.7 | 2063.7 | 2108.4 | 2097.5 | 2058.2 | 2051.5 | 2023.0 |
| 5°    | 1997.3 | 2012.2 | 2023.0 | 2119.2 | 2200.5 | 2192.4 | 2216.8 | 2200.5 | 2124.6 | 2027.1 | 1960.7 |
| 7.5°  | 1868.5 | 1884.8 | 1928.2 | 2092.1 | 2201.9 | 2238.5 | 2284.5 | 2182.9 | 2103.0 | 1926.8 | 1799.4 |
| 10°   | 1697.8 | 1729.0 | 1808.9 | 1995.9 | 2131.4 | 2247.9 | 2247.9 | 2166.6 | 2012.2 | 1840.1 | 1684.3 |
| 12.5° | 1603.0 | 1665.3 | 1708.7 | 1898.4 | 2074.5 | 2154.4 | 2151.7 | 2108.4 | 2008.1 | 1791.3 | 1615.2 |
| 15°   | 1619.2 | 1636.8 | 1729.0 | 1876.7 | 1993.2 | 1989.1 | 2037.9 | 2024.4 | 1953.9 | 1834.7 | 1640.9 |
| 17.5° | 1693.7 | 1720.8 | 1800.8 | 1876.7 | 1932.2 | 1916.0 | 1914.6 | 1979.7 | 1983.7 | 1907.8 | 1737.1 |
| 20°   | 1815.7 | 1895.6 | 1933.6 | 1956.6 | 1888.9 | 1819.8 | 1811.6 | 1902.4 | 1972.9 | 2001.3 | 1852.3 |
| 22.5° | 2010.8 | 2063.7 | 2140.9 | 2023.0 | 1846.9 | 1760.1 | 1743.9 | 1844.2 | 1986.4 | 2112.4 | 2001.3 |
| 25°   | 2201.9 | 2242.5 | 2317.0 | 2165.3 | 1894.3 | 1747.9 | 1719.5 | 1806.2 | 2037.9 | 2266.9 | 2181.5 |
| 27.5° | 2403.8 | 2439.0 | 2447.1 | 2269.6 | 1920.0 | 1723.6 | 1689.7 | 1806.2 | 2081.3 | 2348.2 | 2397.0 |
| 30°   | 2527.1 | 2569.1 | 2577.2 | 2361.8 | 1962.0 | 1743.9 | 1727.6 | 1814.3 | 2111.1 | 2417.3 | 2551.5 |
| 32.5° | 2665.3 | 2676.1 | 2669.3 | 2378.0 | 2008.1 | 1803.5 | 1735.8 | 1868.5 | 2145.0 | 2500.0 | 2692.4 |
| 35°   | 2830.6 | 2849.6 | 2780.5 | 2452.5 | 2111.1 | 1841.4 | 1817.1 | 1934.9 | 2203.2 | 2537.9 | 2863.1 |
| 37.5° | 2956.6 | 3016.2 | 2860.4 | 2481.0 | 2131.4 | 1921.4 | 1925.5 | 2073.1 | 2243.9 | 2584.0 | 3051.5 |
| 40°   | 3193.7 | 3093.5 | 2995.9 | 2578.6 | 2208.6 | 2056.9 | 2035.2 | 2215.4 | 2380.7 | 2613.8 | 3174.8 |
| 42.5° | 3323.8 | 3271.0 | 3048.7 | 2588.0 | 2327.9 | 2243.9 | 2249.3 | 2376.7 | 2452.5 | 2697.8 | 3208.6 |
| 45°   | 3356.3 | 3300.8 | 3120.6 | 2594.8 | 2445.8 | 2464.7 | 2558.2 | 2582.6 | 2558.2 | 2753.4 | 3272.3 |
| 47.5° | 3439.0 | 3318.4 | 3112.4 | 2685.6 | 2636.8 | 2710.0 | 2829.2 | 2882.1 | 2701.9 | 2733.0 | 3302.1 |
| 50°   | 3422.7 | 3353.6 | 3094.8 | 2723.5 | 2869.9 | 3063.7 | 3143.6 | 3121.9 | 2861.8 | 2691.0 | 3269.6 |
| 52.5° | 3355.0 | 3280.5 | 3149.0 | 2826.5 | 3088.0 | 3322.5 | 3433.6 | 3379.4 | 3004.0 | 2785.9 | 3247.9 |
| 55°   | 3453.9 | 3397.0 | 3219.5 | 2966.1 | 3252.0 | 3550.1 | 3628.7 | 3588.0 | 3178.8 | 2874.0 | 3371.2 |
| 57.5° | 3560.9 | 3548.7 | 3410.5 | 3130.0 | 3445.8 | 3784.5 | 3784.5 | 3734.4 | 3330.6 | 3001.3 | 3554.2 |
| 60°   | 3715.4 | 3742.5 | 3551.5 | 3238.4 | 3512.2 | 3771.0 | 3967.4 | 3909.2 | 3483.7 | 3224.9 | 3761.5 |
| 62.5° | 3665.3 | 3752.0 | 3733.0 | 3471.5 | 3588.0 | 3837.4 | 3944.4 | 3987.8 | 3673.4 | 3497.3 | 4037.9 |
| 65°   | 3504.0 | 3596.2 | 3731.7 | 3624.6 | 3531.1 | 3676.1 | 3730.3 | 3861.7 | 3768.3 | 3753.3 | 4151.7 |
| 67.5° | 3311.6 | 3411.9 | 3495.9 | 3727.6 | 3416.0 | 3512.2 | 3464.7 | 3506.7 | 3665.3 | 4033.8 | 4216.8 |
| 70°   | 2891.6 | 2987.8 | 3120.6 | 3498.6 | 3111.1 | 3024.4 | 3012.2 | 2991.8 | 3238.4 | 3933.6 | 3921.4 |
| 72.5° | 2378.0 | 2422.7 | 2642.2 | 2844.1 | 2302.1 | 2285.9 | 2304.9 | 2281.8 | 2567.7 | 3560.9 | 3359.0 |
| 75°   | 1780.5 | 1825.2 | 1949.8 | 2184.3 | 1567.7 | 1474.2 | 1582.6 | 1689.7 | 1960.7 | 2764.2 | 2413.3 |
| 77.5° | 1338.7 | 1395.6 | 1474.2 | 1634.1 | 1150.4 | 1004.1 | 1019.0 | 1120.6 | 1417.3 | 2214.1 | 1352.3 |
| 80°   | 868.6  | 861.8  | 1013.5 | 1124.6 | 865.8  | 892.9  | 855.0  | 929.5  | 1027.1 | 1184.3 | 691.0  |
| 82.5° | 501.3  | 508.1  | 571.8  | 645.0  | 603.0  | 689.7  | 497.3  | 830.6  | 733.1  | 482.4  | 257.4  |
| 85°   | 281.8  | 294.0  | 352.3  | 447.1  | 378.0  | 253.4  | 207.3  | 411.9  | 460.7  | 197.8  | 124.7  |
| 87.5° | 28.5   | 24.4   | 47.4   | 169.4  | 103.0  | 42.0   | 62.3   | 98.9   | 111.1  | 74.5   | 36.6   |
| 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°    | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
| 2.5°  | 1982.4 | 1982.4 | 1948.5 | 1891.6 | 1868.5 | 1827.9 | 1772.3 | 1790.0 | 1771.0 | 1701.9 | 1684.3 |
| 5°    | 1901.1 | 1836.0 | 1765.6 | 1678.8 | 1628.7 | 1525.7 | 1493.2 | 1434.9 | 1444.4 | 1386.2 | 1388.9 |
| 7.5°  | 1731.7 | 1680.2 | 1561.0 | 1447.1 | 1348.2 | 1258.8 | 1132.8 | 1085.4 | 1039.3 | 1016.2 | 1043.3 |
| 10°   | 1632.8 | 1536.6 | 1374.0 | 1224.9 | 1093.5 | 1013.5 | 929.5  | 864.5  | 804.9  | 760.2  | 750.7  |
| 12.5° | 1561.0 | 1475.6 | 1279.1 | 1097.5 | 994.6  | 929.5  | 852.3  | 762.9  | 704.6  | 627.4  | 604.3  |
| 15°   | 1539.3 | 1434.9 | 1227.6 | 1047.4 | 947.1  | 840.1  | 752.0  | 663.9  | 588.1  | 506.8  | 478.3  |
| 17.5° | 1613.8 | 1493.2 | 1226.3 | 1006.8 | 865.8  | 750.7  | 628.7  | 529.8  | 452.6  | 378.0  | 360.4  |
| 20°   | 1739.8 | 1555.5 | 1265.6 | 982.4  | 788.6  | 634.1  | 495.9  | 397.0  | 310.3  | 261.5  | 249.3  |
| 22.5° | 1883.4 | 1661.2 | 1269.6 | 917.3  | 711.4  | 517.6  | 361.8  | 261.5  | 212.7  | 189.7  | 182.9  |
| 25°   | 2059.6 | 1830.6 | 1318.4 | 864.5  | 620.6  | 392.9  | 257.4  | 200.5  | 172.1  | 158.5  | 155.8  |
| 27.5° | 2204.6 | 1948.5 | 1371.3 | 808.9  | 531.2  | 291.3  | 201.9  | 164.0  | 149.0  | 135.5  | 134.1  |
| 30°   | 2355.0 | 2084.0 | 1386.2 | 775.1  | 453.9  | 239.8  | 173.4  | 145.0  | 128.7  | 121.9  | 120.6  |
| 32.5° | 2486.4 | 2231.7 | 1433.6 | 719.5  | 380.8  | 211.4  | 157.2  | 130.1  | 119.2  | 108.4  | 107.0  |
| 35°   | 2655.8 | 2317.0 | 1456.6 | 689.7  | 353.7  | 191.1  | 143.6  | 119.2  | 103.0  | 96.2   | 93.5   |
| 37.5° | 2837.4 | 2399.7 | 1471.5 | 666.7  | 330.6  | 178.9  | 135.5  | 112.5  | 97.6   | 88.1   | 85.4   |
| 40°   | 3006.7 | 2516.2 | 1449.8 | 638.2  | 313.0  | 164.0  | 130.1  | 104.3  | 90.8   | 81.3   | 77.2   |
| 42.5° | 3136.8 | 2630.1 | 1443.1 | 611.1  | 294.0  | 158.5  | 123.3  | 100.3  | 85.4   | 74.5   | 73.2   |
| 45°   | 3210.0 | 2707.3 | 1395.6 | 589.4  | 279.1  | 161.2  | 120.6  | 94.8   | 81.3   | 71.8   | 66.4   |
| 47.5° | 3192.4 | 2766.9 | 1407.8 | 582.6  | 258.8  | 150.4  | 119.2  | 90.8   | 74.5   | 66.4   | 62.3   |
| 50°   | 3289.9 | 2887.5 | 1387.5 | 561.0  | 243.9  | 135.5  | 130.1  | 90.8   | 73.2   | 63.7   | 59.6   |
| 52.5° | 3306.2 | 2997.3 | 1430.9 | 521.7  | 220.9  | 124.7  | 128.7  | 89.4   | 70.5   | 61.0   | 55.6   |
| 55°   | 3441.7 | 3124.6 | 1514.9 | 500.0  | 201.9  | 108.4  | 117.9  | 86.7   | 63.7   | 55.6   | 52.8   |
| 57.5° | 3626.0 | 3388.9 | 1569.1 | 479.7  | 176.1  | 94.8   | 98.9   | 85.4   | 58.3   | 51.5   | 47.4   |
| 60°   | 3803.5 | 3494.5 | 1573.2 | 443.1  | 151.8  | 85.4   | 77.2   | 85.4   | 54.2   | 46.1   | 42.0   |
| 62.5° | 3936.3 | 3494.5 | 1546.1 | 411.9  | 132.8  | 75.9   | 67.7   | 81.3   | 48.8   | 40.6   | 37.9   |
| 65°   | 3864.5 | 3401.0 | 1475.6 | 386.2  | 120.6  | 66.4   | 58.3   | 62.3   | 43.4   | 35.2   | 32.5   |
| 67.5° | 3735.7 | 3109.7 | 1319.8 | 355.0  | 119.2  | 58.3   | 50.1   | 46.1   | 37.9   | 31.2   | 28.5   |
| 70°   | 3529.8 | 2716.8 | 1098.9 | 319.8  | 116.5  | 52.8   | 44.7   | 39.3   | 33.9   | 27.1   | 24.4   |
| 72.5° | 2844.1 | 2243.9 | 902.4  | 299.5  | 113.8  | 46.1   | 37.9   | 33.9   | 28.5   | 23.0   | 20.3   |
| 75°   | 1970.2 | 1433.6 | 695.1  | 256.1  | 111.1  | 42.0   | 35.2   | 29.8   | 24.4   | 19.0   | 17.6   |
| 77.5° | 1181.6 | 958.0  | 448.5  | 192.4  | 73.2   | 33.9   | 29.8   | 23.0   | 20.3   | 16.3   | 14.9   |
| 80°   | 552.8  | 452.6  | 181.6  | 74.5   | 35.2   | 24.4   | 20.3   | 17.6   | 16.3   | 13.5   | 12.2   |
| 82.5° | 216.8  | 191.1  | 88.1   | 43.4   | 28.5   | 19.0   | 16.3   | 14.9   | 13.5   | 10.8   | 9.5    |
| 85°   | 116.5  | 103.0  | 42.0   | 29.8   | 20.3   | 13.5   | 13.5   | 12.2   | 10.8   | 9.5    | 8.1    |
| 87.5° | 25.7   | 19.0   | 17.6   | 17.6   | 14.9   | 10.8   | 10.8   | 9.5    | 8.1    | 6.8    | 5.4    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
| 2.5°  | 1674.8 | 1695.1 | 1662.6 | 1682.9 | 1654.5 | 1676.1 | 1678.8 | 1658.5 | 1663.9 | 1691.0 | 1703.2 |
| 5°    | 1426.8 | 1413.3 | 1383.5 | 1374.0 | 1375.3 | 1357.7 | 1364.5 | 1374.0 | 1388.9 | 1397.0 | 1421.4 |
| 7.5°  | 1028.4 | 1059.6 | 1058.3 | 1081.3 | 1082.6 | 1079.9 | 1061.0 | 1020.3 | 1033.9 | 1023.0 | 1036.6 |
| 10°   | 735.8  | 749.3  | 775.1  | 790.0  | 817.1  | 802.2  | 758.8  | 742.5  | 734.4  | 733.1  | 746.6  |
| 12.5° | 588.1  | 555.5  | 552.8  | 558.3  | 571.8  | 554.2  | 532.5  | 513.5  | 523.0  | 542.0  | 556.9  |
| 15°   | 455.3  | 428.2  | 392.9  | 387.5  | 390.2  | 382.1  | 359.1  | 334.7  | 341.5  | 360.4  | 371.3  |
| 17.5° | 349.6  | 318.4  | 294.0  | 277.8  | 272.4  | 243.9  | 210.0  | 189.7  | 184.3  | 182.9  | 192.4  |
| 20°   | 235.8  | 230.3  | 226.3  | 206.0  | 206.0  | 165.3  | 136.9  | 121.9  | 121.9  | 124.7  | 126.0  |
| 22.5° | 176.1  | 169.4  | 170.7  | 166.7  | 155.8  | 123.3  | 108.4  | 104.3  | 104.3  | 107.0  | 107.0  |
| 25°   | 153.1  | 143.6  | 140.9  | 139.6  | 128.7  | 105.7  | 94.8   | 90.8   | 90.8   | 93.5   | 93.5   |
| 27.5° | 130.1  | 127.4  | 123.3  | 117.9  | 108.4  | 90.8   | 84.0   | 79.9   | 81.3   | 82.7   | 81.3   |
| 30°   | 119.2  | 112.5  | 107.0  | 107.0  | 96.2   | 81.3   | 75.9   | 73.2   | 70.5   | 73.2   | 74.5   |
| 32.5° | 105.7  | 101.6  | 98.9   | 94.8   | 82.7   | 71.8   | 66.4   | 63.7   | 62.3   | 62.3   | 63.7   |
| 35°   | 90.8   | 90.8   | 88.1   | 82.7   | 71.8   | 65.0   | 58.3   | 55.6   | 54.2   | 55.6   | 55.6   |
| 37.5° | 81.3   | 77.2   | 78.6   | 73.2   | 63.7   | 56.9   | 50.1   | 47.4   | 47.4   | 46.1   | 47.4   |
| 40°   | 75.9   | 69.1   | 65.0   | 62.3   | 56.9   | 48.8   | 43.4   | 40.6   | 39.3   | 39.3   | 39.3   |
| 42.5° | 67.7   | 62.3   | 54.2   | 52.8   | 51.5   | 42.0   | 35.2   | 33.9   | 32.5   | 31.2   | 31.2   |
| 45°   | 63.7   | 55.6   | 48.8   | 42.0   | 42.0   | 35.2   | 29.8   | 27.1   | 25.7   | 24.4   | 25.7   |
| 47.5° | 58.3   | 50.1   | 42.0   | 35.2   | 33.9   | 28.5   | 23.0   | 20.3   | 19.0   | 19.0   | 19.0   |
| 50°   | 55.6   | 44.7   | 36.6   | 29.8   | 25.7   | 23.0   | 17.6   | 14.9   | 13.5   | 13.5   | 13.5   |
| 52.5° | 51.5   | 42.0   | 32.5   | 25.7   | 20.3   | 17.6   | 13.5   | 10.8   | 9.5    | 9.5    | 9.5    |
| 55°   | 46.1   | 37.9   | 28.5   | 21.7   | 17.6   | 13.5   | 9.5    | 6.8    | 5.4    | 5.4    | 5.4    |
| 57.5° | 43.4   | 33.9   | 24.4   | 19.0   | 13.5   | 9.5    | 5.4    | 4.1    | 4.1    | 2.7    | 4.1    |
| 60°   | 39.3   | 29.8   | 20.3   | 14.9   | 10.8   | 6.8    | 4.1    | 1.4    | 1.4    | 1.4    | 1.4    |
| 62.5° | 33.9   | 25.7   | 17.6   | 12.2   | 8.1    | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 28.5   | 20.3   | 13.5   | 9.5    | 5.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 24.4   | 17.6   | 10.8   | 6.8    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 21.7   | 14.9   | 8.1    | 5.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 17.6   | 12.2   | 6.8    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 14.9   | 9.5    | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 12.2   | 6.8    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 9.5    | 5.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 8.1    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 5.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.1    | 1.4    | 0.0    | 0.0    | 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    |



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| 0°    | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 | 1907.8 |
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| 20°   | 138.2  | 173.4  | 287.3  | 493.2  | 733.1  | 967.5  | 1279.1 | 1646.3 | 1790.0 | 1815.7 |
| 22.5° | 113.8  | 126.0  | 162.6  | 308.9  | 600.3  | 933.6  | 1341.4 | 1803.5 | 1949.8 | 2010.8 |
| 25°   | 97.6   | 107.0  | 126.0  | 185.6  | 453.9  | 861.8  | 1380.7 | 2000.0 | 2135.5 | 2201.9 |
| 27.5° | 86.7   | 96.2   | 111.1  | 136.9  | 308.9  | 762.9  | 1445.8 | 2177.5 | 2313.0 | 2403.8 |
| 30°   | 75.9   | 84.0   | 98.9   | 116.5  | 214.1  | 651.8  | 1501.3 | 2307.6 | 2498.6 | 2527.1 |
| 32.5° | 67.7   | 74.5   | 85.4   | 100.3  | 158.5  | 494.6  | 1546.1 | 2441.7 | 2603.0 | 2665.3 |
| 35°   | 58.3   | 66.4   | 73.2   | 85.4   | 120.6  | 372.6  | 1519.0 | 2546.0 | 2756.1 | 2830.6 |
| 37.5° | 51.5   | 56.9   | 63.7   | 71.8   | 101.6  | 291.3  | 1463.4 | 2670.7 | 2887.5 | 2956.6 |
| 40°   | 43.4   | 47.4   | 55.6   | 63.7   | 92.1   | 224.9  | 1399.7 | 2821.1 | 3071.8 | 3193.7 |
| 42.5° | 36.6   | 40.6   | 46.1   | 59.6   | 75.9   | 166.7  | 1271.0 | 2937.6 | 3220.8 | 3323.8 |
| 45°   | 28.5   | 33.9   | 42.0   | 59.6   | 61.0   | 123.3  | 1138.2 | 3024.4 | 3304.8 | 3356.3 |
| 47.5° | 21.7   | 27.1   | 40.6   | 51.5   | 48.8   | 85.4   | 981.0  | 3123.3 | 3391.6 | 3439.0 |
| 50°   | 16.3   | 21.7   | 46.1   | 44.7   | 40.6   | 65.0   | 882.1  | 3192.4 | 3397.0 | 3422.7 |
| 52.5° | 10.8   | 16.3   | 37.9   | 33.9   | 33.9   | 56.9   | 855.0  | 3189.7 | 3410.5 | 3355.0 |
| 55°   | 8.1    | 12.2   | 21.7   | 24.4   | 29.8   | 50.1   | 830.6  | 3291.3 | 3414.6 | 3453.9 |
| 57.5° | 5.4    | 9.5    | 14.9   | 19.0   | 25.7   | 43.4   | 780.5  | 3413.2 | 3540.6 | 3560.9 |
| 60°   | 2.7    | 6.8    | 10.8   | 14.9   | 21.7   | 37.9   | 710.0  | 3502.7 | 3693.7 | 3715.4 |
| 62.5° | 1.4    | 4.1    | 8.1    | 12.2   | 17.6   | 29.8   | 636.8  | 3360.4 | 3627.3 | 3665.3 |
| 65°   | 0.0    | 2.7    | 5.4    | 8.1    | 10.8   | 21.7   | 517.6  | 3033.8 | 3364.5 | 3504.0 |
| 67.5° | 0.0    | 0.0    | 2.7    | 5.4    | 6.8    | 16.3   | 390.2  | 2760.1 | 3121.9 | 3311.6 |
| 70°   | 0.0    | 0.0    | 1.4    | 1.4    | 4.1    | 12.2   | 249.3  | 2285.9 | 2787.2 | 2891.6 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 8.1    | 145.0  | 1697.8 | 2184.3 | 2378.0 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.8    | 73.2   | 1092.1 | 1520.3 | 1780.5 |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.4    | 39.3   | 704.6  | 1120.6 | 1338.7 |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 23.0   | 409.2  | 716.8  | 868.6  |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 9.5    | 200.5  | 428.2  | 501.3  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.7    | 107.0  | 214.1  | 281.8  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.1    | 14.9   | 28.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)