

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: P671495

Luminaire Tested: **CCP-SA-1F-722-U-SL4**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671495  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-722-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ SL4 distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5411.9 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
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

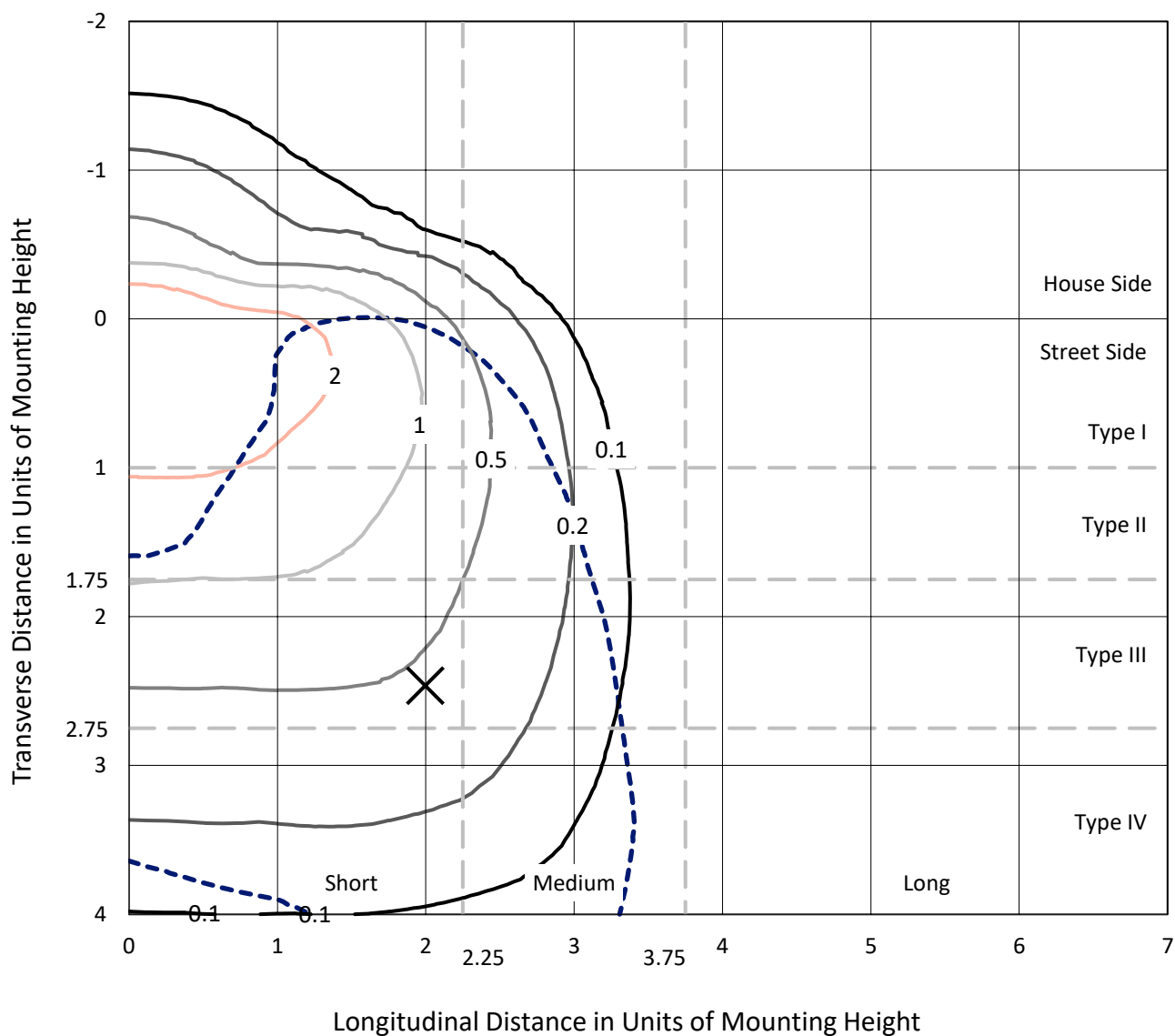
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

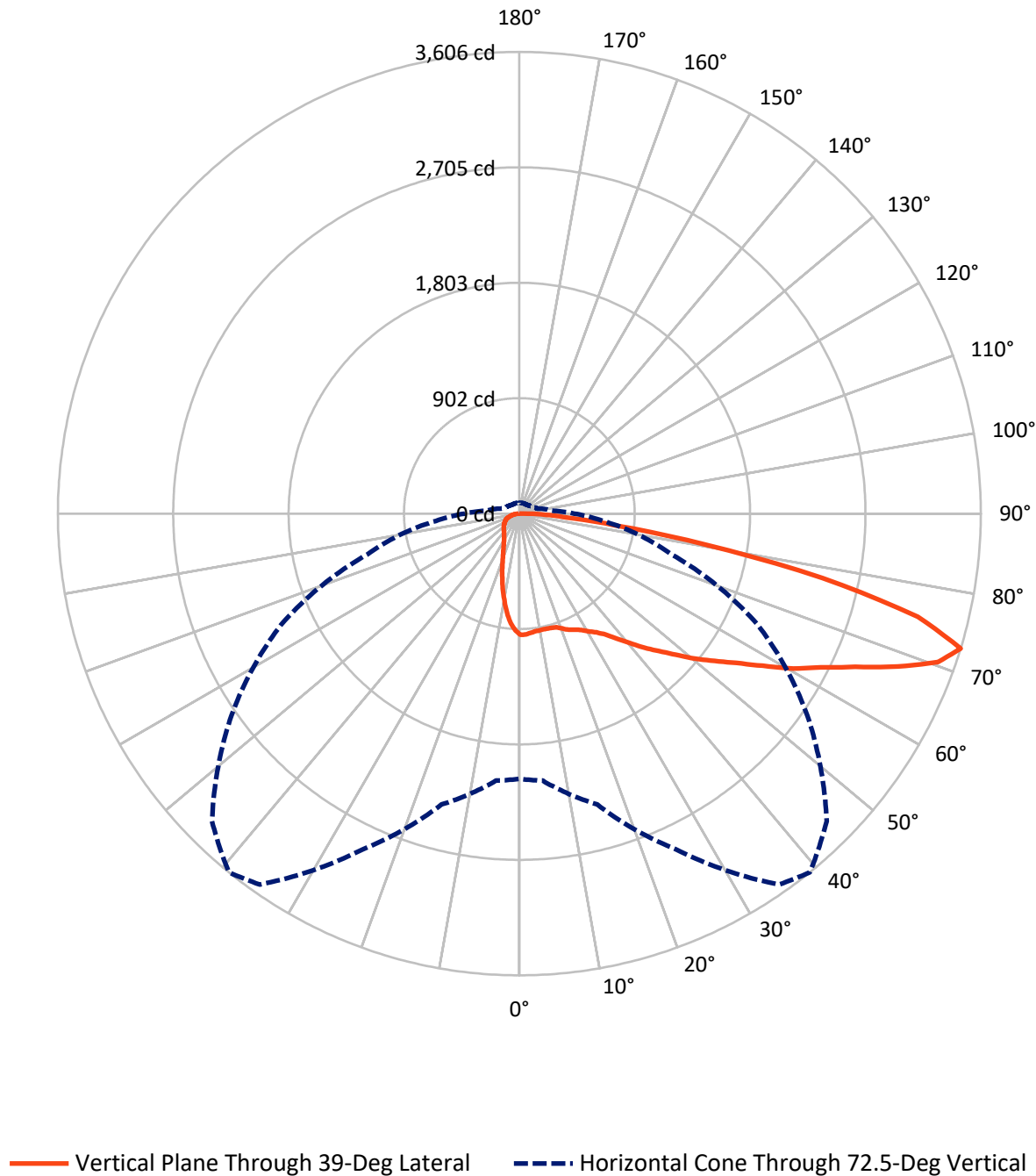


Based on 15 foot mounting height. Maximum calculated value = 4.2 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 804.3    | 0.0    | 804.3  |
|                    | % Fixture | 14.9     | 0.0    | 14.9   |
| <b>Street Side</b> | Lumens    | 4607.6   | 0.0    | 4607.6 |
|                    | % Fixture | 85.1     | 0.0    | 85.1   |
| <b>Total</b>       | Lumens    | 5411.9   | 0.0    | 5411.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.7   | 1.5       |
| 10°-20°   | 213.6  | 3.9       |
| 20°-30°   | 325.5  | 6.0       |
| 30°-40°   | 476.1  | 8.8       |
| 40°-50°   | 729.0  | 13.5      |
| 50°-60°   | 1069.1 | 19.8      |
| 60°-70°   | 1363.5 | 25.2      |
| 70°-80°   | 985.2  | 18.2      |
| 80°-90°   | 166.2  | 3.1       |
| 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°    | 5411.9 | 100.0     |
| 0°-180°   | 5411.9 | 100.0     |

**Coefficient of Utilization**



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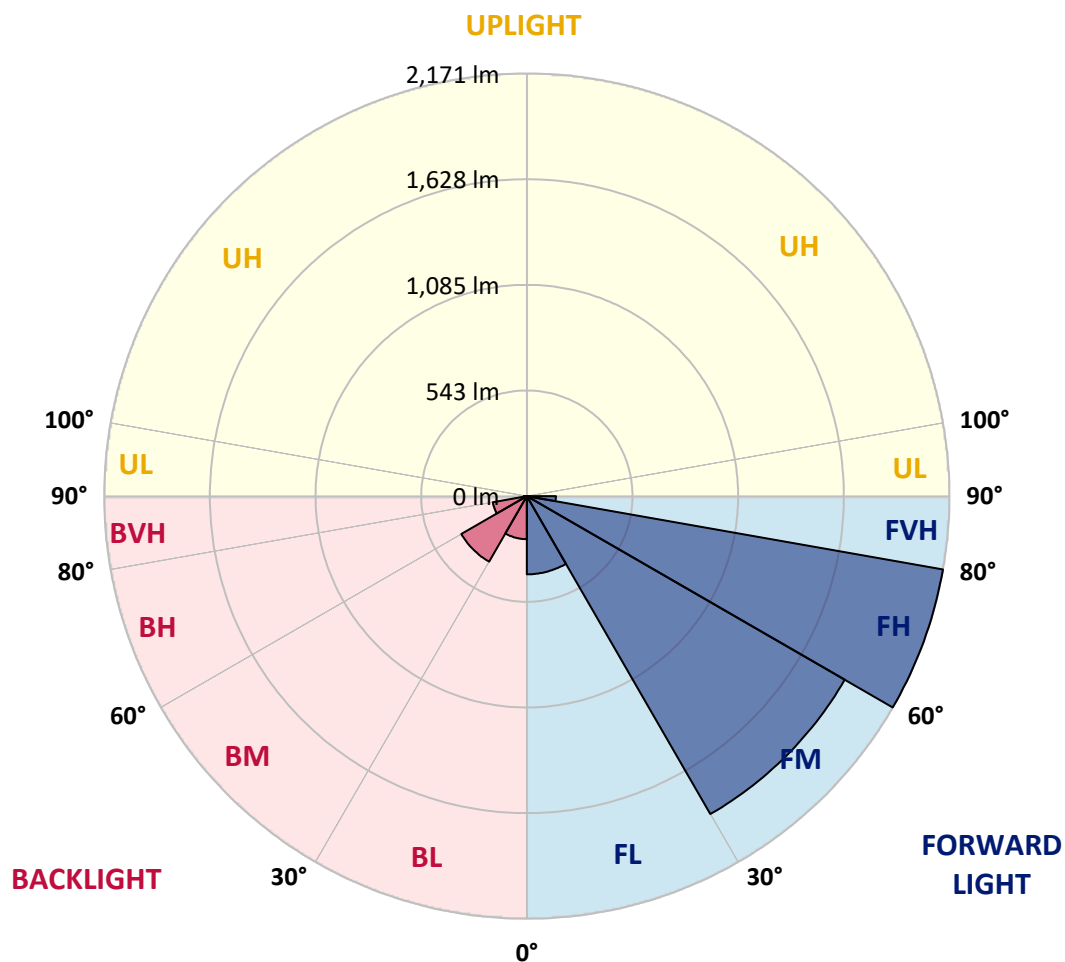
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 401.6  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1885.6 | 34.8      |                         |      |         |
| FH   | (60°-80°)   | 2170.9 | 40.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 149.3  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 221.2  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 388.6  | 7.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 177.7  | 3.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 16.8   | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  | 947.3  |
| 2.5°  | 961.6  | 963.6  | 959.5  | 955.5  | 953.4  | 945.3  | 953.4  | 949.4  | 945.3  | 945.3  | 945.3  |
| 5°    | 949.4  | 951.4  | 951.4  | 947.3  | 949.4  | 935.1  | 933.1  | 935.1  | 929.0  | 925.0  | 922.9  |
| 7.5°  | 931.1  | 935.1  | 943.3  | 941.2  | 933.1  | 927.0  | 929.0  | 927.0  | 916.8  | 910.7  | 894.5  |
| 10°   | 916.8  | 920.9  | 925.0  | 929.0  | 927.0  | 925.0  | 922.9  | 914.8  | 912.8  | 898.5  | 882.3  |
| 12.5° | 902.6  | 902.6  | 904.6  | 920.9  | 922.9  | 922.9  | 910.7  | 910.7  | 904.6  | 902.6  | 878.2  |
| 15°   | 888.4  | 894.5  | 910.7  | 914.8  | 922.9  | 927.0  | 920.9  | 920.9  | 910.7  | 896.5  | 878.2  |
| 17.5° | 892.4  | 902.6  | 918.9  | 929.0  | 933.1  | 933.1  | 941.2  | 935.1  | 920.9  | 912.8  | 894.5  |
| 20°   | 912.8  | 914.8  | 935.1  | 953.4  | 957.5  | 957.5  | 949.4  | 943.3  | 933.1  | 918.9  | 894.5  |
| 22.5° | 925.0  | 939.2  | 963.6  | 973.7  | 985.9  | 985.9  | 975.8  | 961.6  | 947.3  | 933.1  | 906.7  |
| 25°   | 977.8  | 979.8  | 990.0  | 1006.3 | 1012.4 | 1004.2 | 994.1  | 977.8  | 959.5  | 945.3  | 920.9  |
| 27.5° | 1014.4 | 1024.6 | 1036.8 | 1044.9 | 1034.7 | 1028.6 | 1020.5 | 1002.2 | 988.0  | 975.8  | 941.2  |
| 30°   | 1081.5 | 1069.3 | 1077.4 | 1081.5 | 1063.2 | 1067.3 | 1044.9 | 1028.6 | 1012.4 | 1012.4 | 973.7  |
| 32.5° | 1122.1 | 1132.3 | 1124.2 | 1122.1 | 1107.9 | 1105.9 | 1091.7 | 1073.4 | 1063.2 | 1075.4 | 1022.5 |
| 35°   | 1193.3 | 1187.2 | 1187.2 | 1185.2 | 1168.9 | 1158.7 | 1158.7 | 1126.2 | 1136.4 | 1162.8 | 1097.8 |
| 37.5° | 1229.9 | 1227.9 | 1240.1 | 1250.2 | 1234.0 | 1240.1 | 1234.0 | 1219.7 | 1223.8 | 1270.5 | 1191.3 |
| 40°   | 1266.5 | 1280.7 | 1305.1 | 1309.2 | 1319.3 | 1327.5 | 1323.4 | 1321.4 | 1337.6 | 1412.9 | 1317.3 |
| 42.5° | 1301.0 | 1313.2 | 1349.8 | 1382.4 | 1406.8 | 1433.2 | 1435.2 | 1435.2 | 1488.1 | 1595.8 | 1469.8 |
| 45°   | 1345.8 | 1355.9 | 1406.8 | 1471.8 | 1512.5 | 1530.8 | 1547.0 | 1565.3 | 1636.5 | 1764.5 | 1632.4 |
| 47.5° | 1406.8 | 1414.9 | 1475.9 | 1557.2 | 1636.5 | 1646.6 | 1679.2 | 1699.5 | 1807.2 | 1937.3 | 1799.1 |
| 50°   | 1494.2 | 1488.1 | 1536.9 | 1654.8 | 1732.0 | 1780.8 | 1827.6 | 1864.1 | 1969.9 | 2112.2 | 1929.2 |
| 52.5° | 1565.3 | 1565.3 | 1601.9 | 1758.4 | 1864.1 | 1910.9 | 1959.7 | 2010.5 | 2132.5 | 2287.0 | 2034.9 |
| 55°   | 1687.3 | 1675.1 | 1697.5 | 1860.1 | 2012.5 | 2057.3 | 2150.8 | 2193.5 | 2311.4 | 2417.1 | 2124.4 |
| 57.5° | 1770.6 | 1776.7 | 1803.2 | 1994.3 | 2187.4 | 2242.3 | 2335.8 | 2366.3 | 2469.9 | 2553.3 | 2189.4 |
| 60°   | 1880.4 | 1860.1 | 1917.0 | 2142.7 | 2380.5 | 2457.7 | 2535.0 | 2553.3 | 2630.5 | 2640.7 | 2219.9 |
| 62.5° | 1986.1 | 1982.1 | 2030.8 | 2291.1 | 2587.9 | 2642.7 | 2722.0 | 2742.4 | 2774.9 | 2709.8 | 2177.2 |
| 65°   | 2051.2 | 2077.6 | 2169.1 | 2453.7 | 2823.7 | 2884.7 | 2963.9 | 2923.3 | 2886.7 | 2648.8 | 1967.8 |
| 67.5° | 2140.6 | 2152.8 | 2293.1 | 2630.5 | 3096.1 | 3187.6 | 3256.7 | 3096.1 | 2823.7 | 2398.8 | 1656.8 |
| 70°   | 2160.9 | 2193.5 | 2376.4 | 2815.5 | 3376.6 | 3470.1 | 3474.2 | 3037.1 | 2594.0 | 1951.6 | 1201.4 |
| 72.5° | 2071.5 | 2093.9 | 2352.0 | 2892.8 | 3537.2 | 3606.3 | 3396.9 | 2746.4 | 2055.2 | 1229.9 | 654.6  |
| 75°   | 1742.2 | 1805.2 | 2047.1 | 2654.9 | 3242.4 | 3216.0 | 2878.6 | 2095.9 | 1234.0 | 544.8  | 276.5  |
| 77.5° | 1213.6 | 1215.7 | 1467.7 | 1931.2 | 2427.3 | 2421.2 | 2053.2 | 1215.7 | 528.5  | 219.6  | 162.6  |
| 80°   | 538.7  | 577.3  | 729.8  | 1040.8 | 1473.8 | 1473.8 | 1197.4 | 603.8  | 264.3  | 142.3  | 111.8  |
| 82.5° | 317.1  | 329.3  | 390.3  | 485.9  | 717.6  | 756.2  | 573.3  | 402.5  | 180.9  | 89.4   | 69.1   |
| 85°   | 233.8  | 254.1  | 290.7  | 292.7  | 339.5  | 345.6  | 317.1  | 349.7  | 124.0  | 48.8   | 56.9   |
| 87.5° | 174.8  | 187.0  | 231.7  | 193.1  | 180.9  | 170.8  | 195.2  | 357.8  | 46.8   | 24.4   | 18.3   |
| 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°    | 947.3  | 947.3  | 947.3 | 947.3 | 947.3 | 947.3 | 947.3 | 947.3 | 947.3 | 947.3 | 947.3 |
| 2.5°  | 937.2  | 937.2  | 933.1 | 925.0 | 925.0 | 908.7 | 912.8 | 916.8 | 906.7 | 906.7 | 908.7 |
| 5°    | 922.9  | 914.8  | 904.6 | 892.4 | 884.3 | 861.9 | 857.9 | 843.6 | 841.6 | 837.5 | 831.4 |
| 7.5°  | 894.5  | 882.3  | 864.0 | 845.7 | 819.2 | 798.9 | 774.5 | 754.2 | 746.1 | 740.0 | 737.9 |
| 10°   | 868.0  | 866.0  | 835.5 | 798.9 | 758.3 | 719.6 | 683.0 | 656.6 | 640.4 | 630.2 | 628.2 |
| 12.5° | 868.0  | 851.8  | 809.1 | 758.3 | 699.3 | 642.4 | 595.6 | 559.0 | 536.7 | 520.4 | 514.3 |
| 15°   | 864.0  | 847.7  | 790.8 | 713.5 | 646.5 | 569.2 | 504.2 | 465.5 | 433.0 | 416.7 | 418.8 |
| 17.5° | 868.0  | 843.6  | 764.4 | 681.0 | 587.5 | 504.2 | 426.9 | 380.1 | 347.6 | 335.4 | 333.4 |
| 20°   | 870.1  | 839.6  | 744.0 | 636.3 | 526.5 | 433.0 | 359.8 | 315.1 | 290.7 | 282.6 | 282.6 |
| 22.5° | 866.0  | 827.4  | 713.5 | 583.4 | 473.7 | 374.0 | 313.1 | 274.4 | 258.2 | 248.0 | 252.1 |
| 25°   | 884.3  | 825.3  | 685.1 | 538.7 | 412.7 | 325.3 | 278.5 | 250.0 | 239.9 | 233.8 | 235.8 |
| 27.5° | 888.4  | 825.3  | 662.7 | 487.9 | 359.8 | 288.7 | 252.1 | 233.8 | 225.6 | 221.6 | 219.6 |
| 30°   | 904.6  | 829.4  | 636.3 | 437.1 | 317.1 | 260.2 | 231.7 | 221.6 | 215.5 | 213.5 | 213.5 |
| 32.5° | 949.4  | 841.6  | 607.8 | 394.4 | 280.5 | 235.8 | 217.5 | 209.4 | 205.3 | 203.3 | 205.3 |
| 35°   | 1002.2 | 874.1  | 577.3 | 349.7 | 254.1 | 219.6 | 205.3 | 199.2 | 197.2 | 197.2 | 197.2 |
| 37.5° | 1083.5 | 922.9  | 550.9 | 313.1 | 231.7 | 203.3 | 193.1 | 191.1 | 189.1 | 191.1 | 191.1 |
| 40°   | 1177.0 | 975.8  | 526.5 | 284.6 | 215.5 | 193.1 | 183.0 | 183.0 | 180.9 | 183.0 | 185.0 |
| 42.5° | 1284.8 | 1040.8 | 502.1 | 256.1 | 201.3 | 185.0 | 176.9 | 174.8 | 172.8 | 176.9 | 178.9 |
| 45°   | 1433.2 | 1130.3 | 485.9 | 239.9 | 191.1 | 176.9 | 168.7 | 168.7 | 166.7 | 166.7 | 170.8 |
| 47.5° | 1557.2 | 1215.7 | 485.9 | 223.6 | 185.0 | 170.8 | 162.6 | 162.6 | 158.6 | 160.6 | 160.6 |
| 50°   | 1660.9 | 1288.8 | 496.0 | 219.6 | 176.9 | 164.7 | 158.6 | 154.5 | 152.5 | 152.5 | 152.5 |
| 52.5° | 1730.0 | 1333.6 | 504.2 | 215.5 | 172.8 | 156.5 | 152.5 | 150.4 | 146.4 | 144.3 | 146.4 |
| 55°   | 1799.1 | 1364.1 | 506.2 | 215.5 | 166.7 | 148.4 | 144.3 | 144.3 | 140.3 | 138.2 | 138.2 |
| 57.5° | 1825.5 | 1351.9 | 477.7 | 211.4 | 162.6 | 142.3 | 138.2 | 136.2 | 134.2 | 132.1 | 132.1 |
| 60°   | 1813.3 | 1307.1 | 414.7 | 201.3 | 158.6 | 138.2 | 130.1 | 130.1 | 130.1 | 126.0 | 128.1 |
| 62.5° | 1730.0 | 1154.7 | 333.4 | 185.0 | 152.5 | 130.1 | 122.0 | 126.0 | 126.0 | 124.0 | 124.0 |
| 65°   | 1510.4 | 953.4  | 270.4 | 170.8 | 144.3 | 124.0 | 115.9 | 122.0 | 124.0 | 122.0 | 119.9 |
| 67.5° | 1207.5 | 733.9  | 223.6 | 154.5 | 134.2 | 113.8 | 107.7 | 113.8 | 115.9 | 113.8 | 113.8 |
| 70°   | 829.4  | 473.7  | 180.9 | 138.2 | 119.9 | 103.7 | 97.6  | 101.6 | 101.6 | 103.7 | 103.7 |
| 72.5° | 428.9  | 256.1  | 148.4 | 117.9 | 103.7 | 93.5  | 87.4  | 87.4  | 85.4  | 85.4  | 85.4  |
| 75°   | 213.5  | 174.8  | 124.0 | 99.6  | 87.4  | 79.3  | 75.2  | 71.2  | 71.2  | 71.2  | 71.2  |
| 77.5° | 148.4  | 134.2  | 101.6 | 79.3  | 71.2  | 65.1  | 65.1  | 59.0  | 59.0  | 59.0  | 59.0  |
| 80°   | 111.8  | 105.7  | 77.2  | 61.0  | 54.9  | 50.8  | 50.8  | 48.8  | 48.8  | 46.8  | 46.8  |
| 82.5° | 79.3   | 85.4   | 59.0  | 44.7  | 40.7  | 38.6  | 38.6  | 36.6  | 36.6  | 32.5  | 32.5  |
| 85°   | 63.0   | 71.2   | 44.7  | 32.5  | 30.5  | 26.4  | 26.4  | 24.4  | 24.4  | 22.4  | 20.3  |
| 87.5° | 18.3   | 38.6   | 18.3  | 12.2  | 12.2  | 12.2  | 12.2  | 10.2  | 10.2  | 8.1   | 8.1   |
| 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)