

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: P675227

Luminaire Tested: **CCW-SA-1F-722-U-T4W**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675227  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-722-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T4W distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5571.5 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - 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

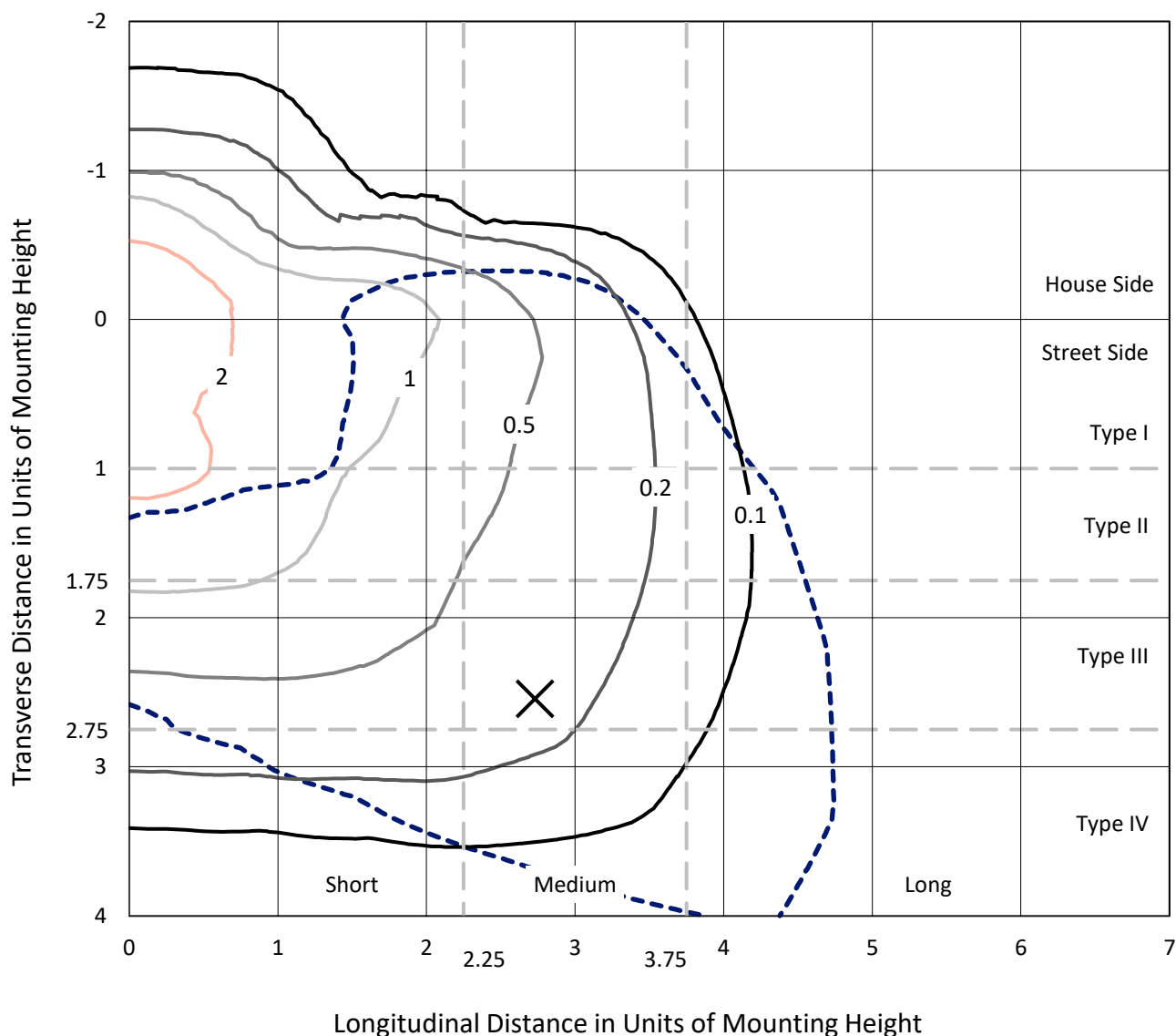
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

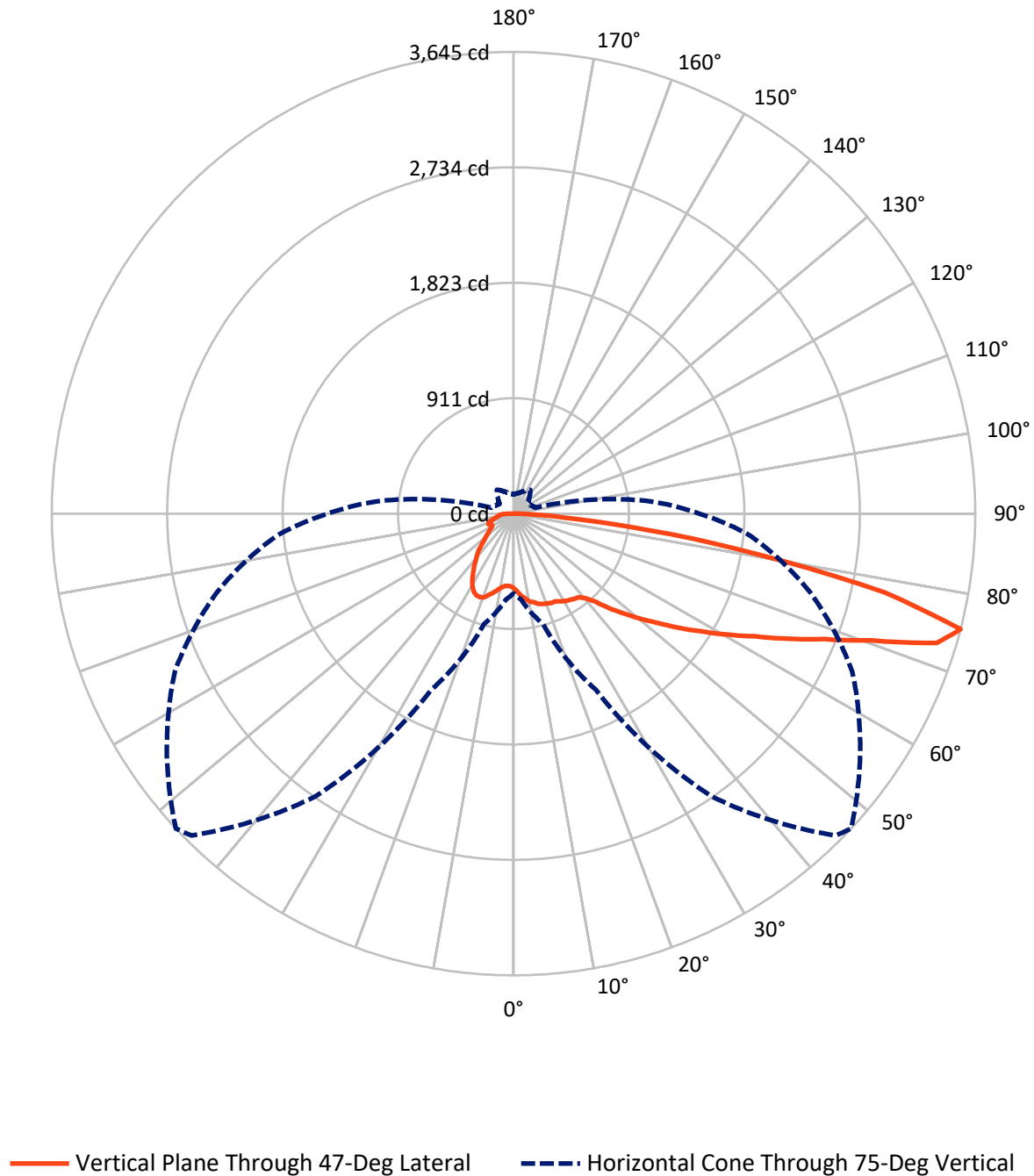
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - 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    | 1332.4   | 0.0    | 1332.4 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 4239.1   | 0.0    | 4239.1 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 5571.5   | 0.0    | 5571.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.8   | 1.1       |
| 10°-20°   | 198.6  | 3.6       |
| 20°-30°   | 340.2  | 6.1       |
| 30°-40°   | 476.0  | 8.5       |
| 40°-50°   | 663.6  | 11.9      |
| 50°-60°   | 991.9  | 17.8      |
| 60°-70°   | 1430.1 | 25.7      |
| 70°-80°   | 1217.4 | 21.8      |
| 80°-90°   | 193.9  | 3.5       |
| 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°    | 5571.5 | 100.0     |
| 0°-180°   | 5571.5 | 100.0     |

**Coefficient of Utilization**



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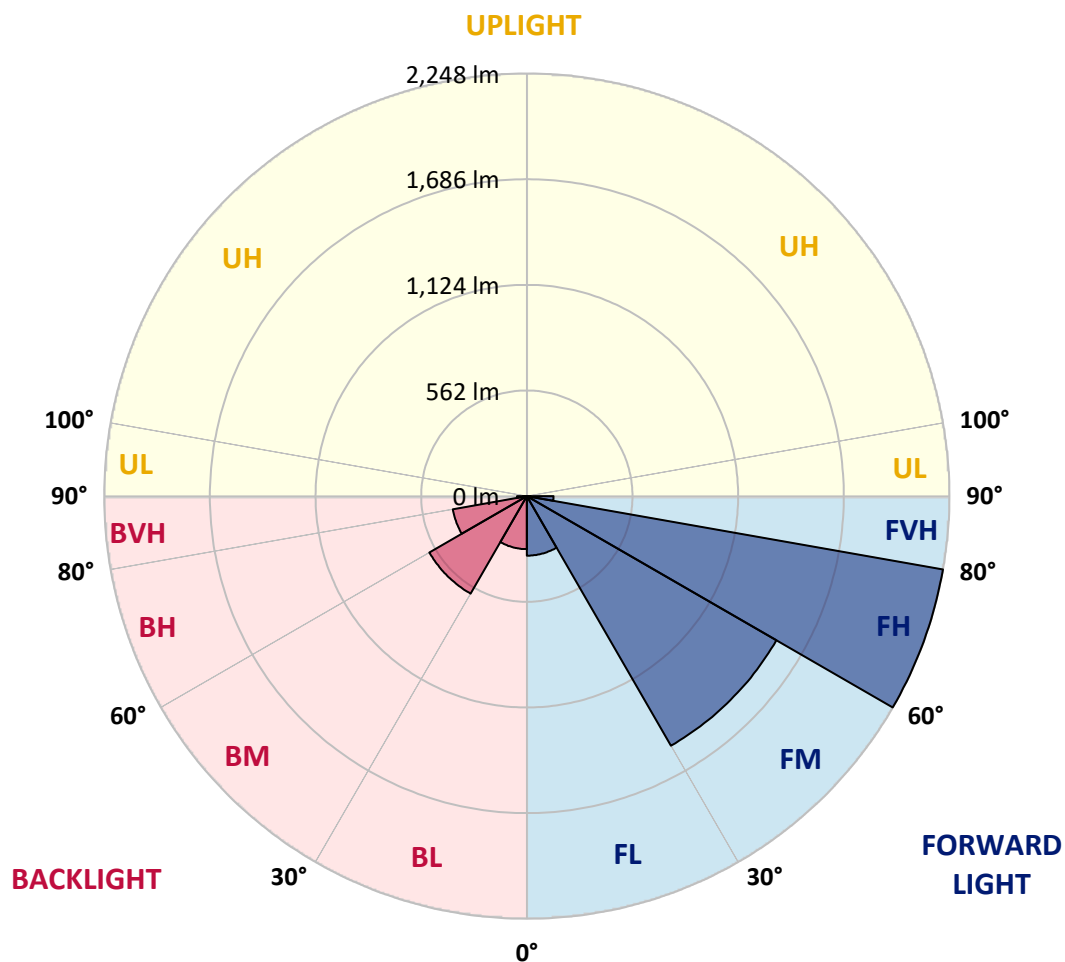
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 316.6  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 1532.7 | 27.5      |                         |      |         |
| FH   | (60°-80°)   | 2247.8 | 40.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 142.1  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 282.0  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 598.8  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 399.7  | 7.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 51.8   | 0.9       |                         |      | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  | 591.6  |
| 2.5°  | 634.3  | 636.3  | 636.3  | 632.2  | 628.2  | 620.0  | 620.0  | 611.9  | 607.8  | 597.7  | 593.6  |
| 5°    | 693.2  | 687.1  | 681.0  | 679.0  | 668.8  | 654.6  | 652.6  | 644.4  | 622.1  | 611.9  | 597.7  |
| 7.5°  | 735.9  | 733.9  | 731.8  | 723.7  | 705.4  | 683.1  | 677.0  | 664.8  | 642.4  | 622.1  | 605.8  |
| 10°   | 770.5  | 778.6  | 770.5  | 752.2  | 733.9  | 709.5  | 707.5  | 685.1  | 664.8  | 640.4  | 620.0  |
| 12.5° | 809.1  | 811.1  | 796.9  | 774.5  | 746.1  | 725.7  | 717.6  | 709.5  | 687.1  | 666.8  | 636.3  |
| 15°   | 835.5  | 831.5  | 821.3  | 790.8  | 758.3  | 737.9  | 740.0  | 729.8  | 705.4  | 691.2  | 658.7  |
| 17.5° | 835.5  | 835.5  | 819.3  | 796.9  | 768.4  | 750.1  | 750.1  | 744.0  | 727.8  | 707.5  | 685.1  |
| 20°   | 819.3  | 819.3  | 809.1  | 796.9  | 764.4  | 760.3  | 756.2  | 752.2  | 752.2  | 733.9  | 701.4  |
| 22.5° | 798.9  | 794.9  | 798.9  | 778.6  | 756.2  | 760.3  | 766.4  | 764.4  | 758.3  | 742.0  | 719.7  |
| 25°   | 778.6  | 780.6  | 784.7  | 770.5  | 750.1  | 768.4  | 766.4  | 776.6  | 772.5  | 760.3  | 742.0  |
| 27.5° | 776.6  | 780.6  | 782.7  | 768.4  | 760.3  | 776.6  | 784.7  | 794.9  | 796.9  | 784.7  | 762.3  |
| 30°   | 807.1  | 805.0  | 803.0  | 784.7  | 778.6  | 792.8  | 801.0  | 815.2  | 827.4  | 801.0  | 782.7  |
| 32.5° | 886.4  | 874.2  | 862.0  | 813.2  | 794.9  | 805.0  | 813.2  | 833.5  | 835.5  | 821.3  | 794.9  |
| 35°   | 1012.4 | 1004.3 | 963.6  | 878.2  | 827.4  | 817.2  | 825.4  | 839.6  | 843.7  | 833.5  | 813.2  |
| 37.5° | 1156.7 | 1152.7 | 1095.7 | 992.1  | 894.5  | 845.7  | 837.6  | 857.9  | 874.2  | 851.8  | 823.3  |
| 40°   | 1299.0 | 1282.8 | 1242.1 | 1140.5 | 979.9  | 888.4  | 878.2  | 888.4  | 894.5  | 878.2  | 859.9  |
| 42.5° | 1427.1 | 1408.8 | 1398.6 | 1297.0 | 1091.7 | 959.5  | 951.4  | 927.0  | 945.3  | 925.0  | 900.6  |
| 45°   | 1534.8 | 1530.8 | 1526.7 | 1439.3 | 1219.7 | 1075.4 | 1069.3 | 1006.3 | 1026.6 | 1010.4 | 975.8  |
| 47.5° | 1612.1 | 1630.4 | 1624.3 | 1575.5 | 1366.1 | 1199.4 | 1181.1 | 1099.8 | 1130.3 | 1114.0 | 1079.5 |
| 50°   | 1703.6 | 1713.7 | 1707.6 | 1675.1 | 1502.3 | 1341.7 | 1307.2 | 1223.8 | 1258.4 | 1256.3 | 1238.0 |
| 52.5° | 1784.9 | 1815.4 | 1780.8 | 1778.8 | 1697.5 | 1496.2 | 1437.3 | 1358.0 | 1414.9 | 1437.3 | 1435.2 |
| 55°   | 1880.4 | 1904.8 | 1894.7 | 1890.6 | 1872.3 | 1646.7 | 1593.8 | 1498.3 | 1593.8 | 1626.3 | 1654.8 |
| 57.5° | 1961.8 | 1959.7 | 1998.4 | 2045.1 | 2067.5 | 1819.5 | 1756.4 | 1644.6 | 1789.0 | 1825.6 | 1904.8 |
| 60°   | 1998.4 | 2032.9 | 2098.0 | 2215.9 | 2278.9 | 2004.5 | 1939.4 | 1850.0 | 1986.2 | 2014.6 | 2161.0 |
| 62.5° | 2022.7 | 2053.2 | 2179.3 | 2378.5 | 2415.1 | 2193.5 | 2132.5 | 2043.1 | 2201.6 | 2222.0 | 2439.5 |
| 65°   | 1955.7 | 1984.1 | 2234.2 | 2439.5 | 2569.6 | 2396.8 | 2382.6 | 2289.1 | 2417.1 | 2429.3 | 2732.2 |
| 67.5° | 1878.4 | 1908.9 | 2187.4 | 2516.7 | 2774.9 | 2667.2 | 2644.8 | 2533.0 | 2630.6 | 2616.4 | 2955.9 |
| 70°   | 1742.2 | 1782.9 | 2067.5 | 2583.8 | 3002.6 | 3045.3 | 3000.6 | 2842.0 | 2852.2 | 2718.0 | 2966.0 |
| 72.5° | 1327.5 | 1353.9 | 1618.2 | 2317.5 | 3108.3 | 3569.8 | 3492.5 | 3175.4 | 3059.5 | 2738.3 | 2618.4 |
| 75°   | 630.2  | 679.0  | 902.6  | 1532.8 | 2724.1 | 3594.2 | 3645.0 | 3340.1 | 2949.8 | 2429.3 | 1856.0 |
| 77.5° | 183.0  | 183.0  | 274.4  | 650.5  | 1707.6 | 2896.9 | 2992.4 | 2835.9 | 2433.4 | 1799.1 | 975.8  |
| 80°   | 99.6   | 105.7  | 144.3  | 229.7  | 750.1  | 1827.6 | 1965.8 | 1880.4 | 1433.2 | 711.5  | 252.1  |
| 82.5° | 56.9   | 59.0   | 95.5   | 138.2  | 341.5  | 994.1  | 1075.4 | 975.8  | 544.8  | 215.5  | 117.9  |
| 85°   | 32.5   | 34.6   | 54.9   | 91.5   | 203.3  | 365.9  | 398.5  | 345.6  | 219.6  | 144.3  | 59.0   |
| 87.5° | 16.3   | 16.3   | 26.4   | 42.7   | 103.7  | 103.7  | 101.6  | 124.0  | 132.1  | 87.4   | 26.4   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 591.6  | 591.6  | 591.6 | 591.6 | 591.6 | 591.6 | 591.6 | 591.6 | 591.6 | 591.6 | 591.6 |
| 2.5°  | 591.6  | 589.5  | 589.5 | 581.4 | 579.4 | 573.3 | 573.3 | 569.2 | 567.2 | 573.3 | 573.3 |
| 5°    | 593.6  | 583.4  | 581.4 | 573.3 | 575.3 | 571.2 | 579.4 | 575.3 | 573.3 | 573.3 | 571.2 |
| 7.5°  | 597.7  | 587.5  | 579.4 | 573.3 | 571.2 | 577.3 | 587.5 | 587.5 | 599.7 | 593.6 | 593.6 |
| 10°   | 607.8  | 601.7  | 591.6 | 587.5 | 587.5 | 593.6 | 605.8 | 613.9 | 624.1 | 624.1 | 618.0 |
| 12.5° | 632.2  | 622.1  | 609.9 | 603.8 | 611.9 | 618.0 | 630.2 | 638.3 | 650.5 | 654.6 | 650.5 |
| 15°   | 650.5  | 640.4  | 636.3 | 632.2 | 638.3 | 646.5 | 656.6 | 664.8 | 679.0 | 683.1 | 681.0 |
| 17.5° | 674.9  | 662.7  | 660.7 | 662.7 | 666.8 | 672.9 | 679.0 | 685.1 | 695.3 | 695.3 | 695.3 |
| 20°   | 687.1  | 683.1  | 681.0 | 687.1 | 695.3 | 703.4 | 699.3 | 695.3 | 693.2 | 697.3 | 695.3 |
| 22.5° | 709.5  | 705.4  | 707.5 | 713.6 | 713.6 | 709.5 | 703.4 | 689.2 | 685.1 | 689.2 | 685.1 |
| 25°   | 729.8  | 725.7  | 725.7 | 721.7 | 719.7 | 705.4 | 693.2 | 681.0 | 666.8 | 672.9 | 670.9 |
| 27.5° | 750.1  | 748.1  | 748.1 | 731.8 | 711.5 | 687.1 | 670.9 | 656.6 | 648.5 | 658.7 | 652.6 |
| 30°   | 774.5  | 776.6  | 766.4 | 727.8 | 679.0 | 652.6 | 634.3 | 632.2 | 630.2 | 636.3 | 634.3 |
| 32.5° | 796.9  | 798.9  | 782.7 | 721.7 | 654.6 | 603.8 | 585.5 | 587.5 | 597.7 | 607.8 | 618.0 |
| 35°   | 809.1  | 819.3  | 798.9 | 701.4 | 605.8 | 548.9 | 528.6 | 546.9 | 565.1 | 579.4 | 589.5 |
| 37.5° | 831.5  | 857.9  | 823.3 | 679.0 | 563.1 | 500.1 | 485.9 | 492.0 | 514.3 | 536.7 | 546.9 |
| 40°   | 864.0  | 894.5  | 829.4 | 636.3 | 506.2 | 451.3 | 443.2 | 445.2 | 453.3 | 467.6 | 477.7 |
| 42.5° | 920.9  | 953.4  | 835.5 | 581.4 | 449.3 | 420.8 | 398.5 | 392.4 | 386.3 | 386.3 | 384.2 |
| 45°   | 1004.3 | 1034.8 | 827.4 | 512.3 | 392.4 | 372.0 | 355.8 | 341.5 | 325.3 | 298.8 | 302.9 |
| 47.5° | 1126.2 | 1150.6 | 833.5 | 451.3 | 339.5 | 323.2 | 311.0 | 294.8 | 270.4 | 241.9 | 239.9 |
| 50°   | 1311.2 | 1274.6 | 825.4 | 388.3 | 300.9 | 286.6 | 276.5 | 254.1 | 225.7 | 205.3 | 203.3 |
| 52.5° | 1526.7 | 1453.5 | 817.2 | 335.4 | 268.3 | 256.1 | 248.0 | 223.6 | 197.2 | 187.0 | 185.0 |
| 55°   | 1786.9 | 1681.2 | 829.4 | 288.7 | 243.9 | 233.8 | 225.7 | 203.3 | 183.0 | 174.8 | 172.8 |
| 57.5° | 2093.9 | 1927.2 | 896.5 | 252.1 | 217.5 | 213.5 | 211.4 | 193.1 | 174.8 | 168.7 | 166.7 |
| 60°   | 2382.6 | 2163.0 | 941.2 | 225.7 | 193.1 | 197.2 | 201.3 | 193.1 | 172.8 | 168.7 | 168.7 |
| 62.5° | 2624.5 | 2358.2 | 870.1 | 203.3 | 180.9 | 193.1 | 211.4 | 205.3 | 197.2 | 201.3 | 197.2 |
| 65°   | 2837.9 | 2425.3 | 650.5 | 191.1 | 174.8 | 203.3 | 233.8 | 231.8 | 213.5 | 217.5 | 215.5 |
| 67.5° | 2874.5 | 2343.9 | 424.9 | 180.9 | 170.8 | 223.6 | 262.2 | 237.9 | 201.3 | 201.3 | 195.2 |
| 70°   | 2722.1 | 2126.4 | 284.6 | 170.8 | 168.7 | 223.6 | 268.3 | 223.6 | 189.1 | 189.1 | 180.9 |
| 72.5° | 2234.2 | 1699.5 | 219.6 | 160.6 | 154.5 | 199.2 | 254.1 | 211.4 | 176.9 | 172.8 | 158.6 |
| 75°   | 1467.8 | 1095.7 | 178.9 | 152.5 | 134.2 | 174.8 | 229.7 | 195.2 | 168.7 | 156.5 | 150.4 |
| 77.5° | 719.7  | 492.0  | 150.4 | 134.2 | 115.9 | 152.5 | 209.4 | 185.0 | 158.6 | 146.4 | 142.3 |
| 80°   | 197.2  | 176.9  | 126.0 | 117.9 | 97.6  | 132.1 | 197.2 | 176.9 | 148.4 | 136.2 | 130.1 |
| 82.5° | 111.8  | 109.8  | 101.6 | 95.5  | 81.3  | 132.1 | 199.2 | 176.9 | 140.3 | 138.2 | 117.9 |
| 85°   | 61.0   | 65.1   | 73.2  | 71.2  | 63.0  | 117.9 | 189.1 | 154.5 | 113.8 | 95.5  | 95.5  |
| 87.5° | 24.4   | 30.5   | 36.6  | 40.7  | 42.7  | 87.4  | 142.3 | 117.9 | 87.4  | 73.2  | 73.2  |
| 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)