

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: P670698

Luminaire Tested: **CCP-SA-2A-760-U-T2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670698  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-760-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2  
distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5583 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

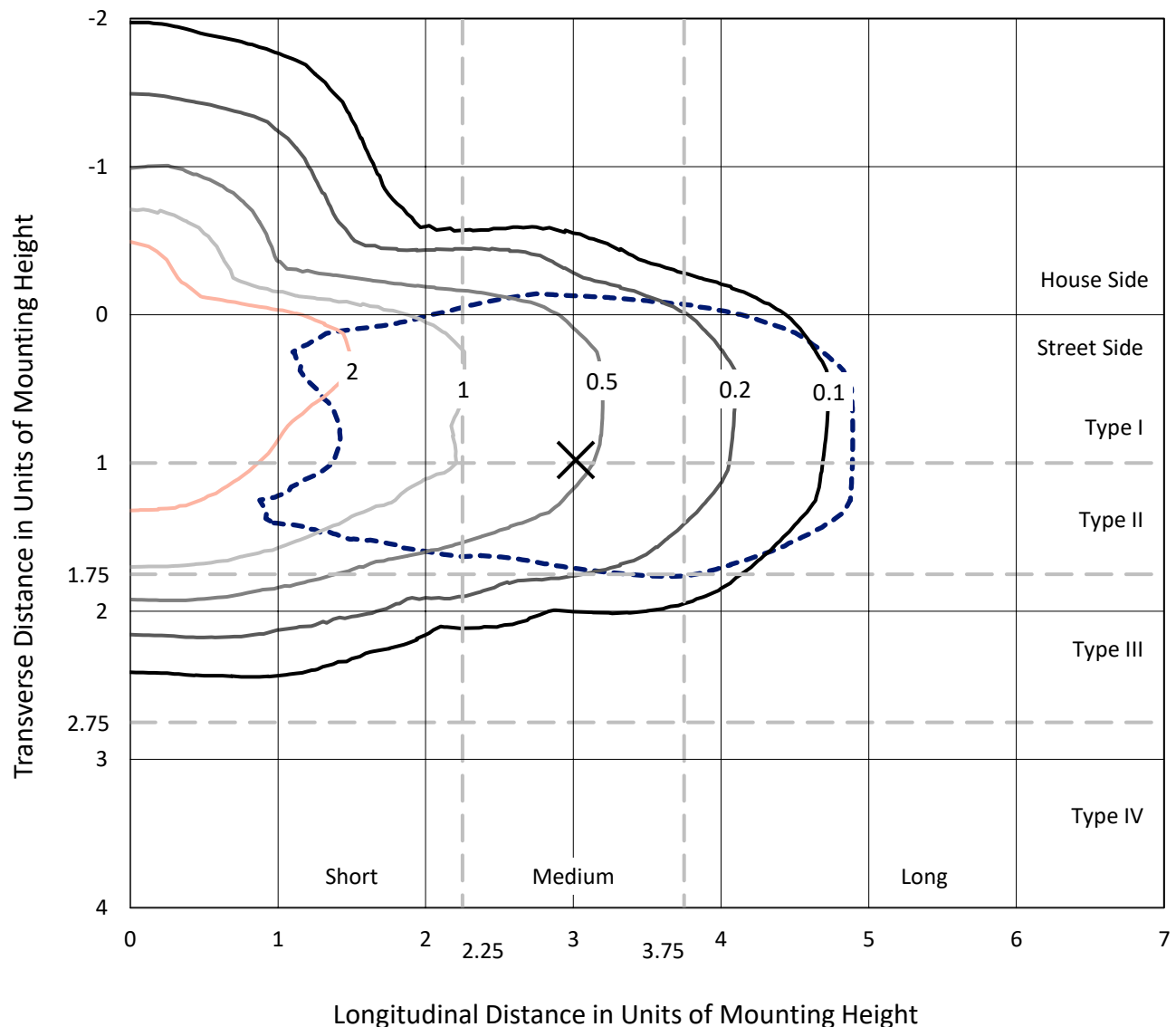
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

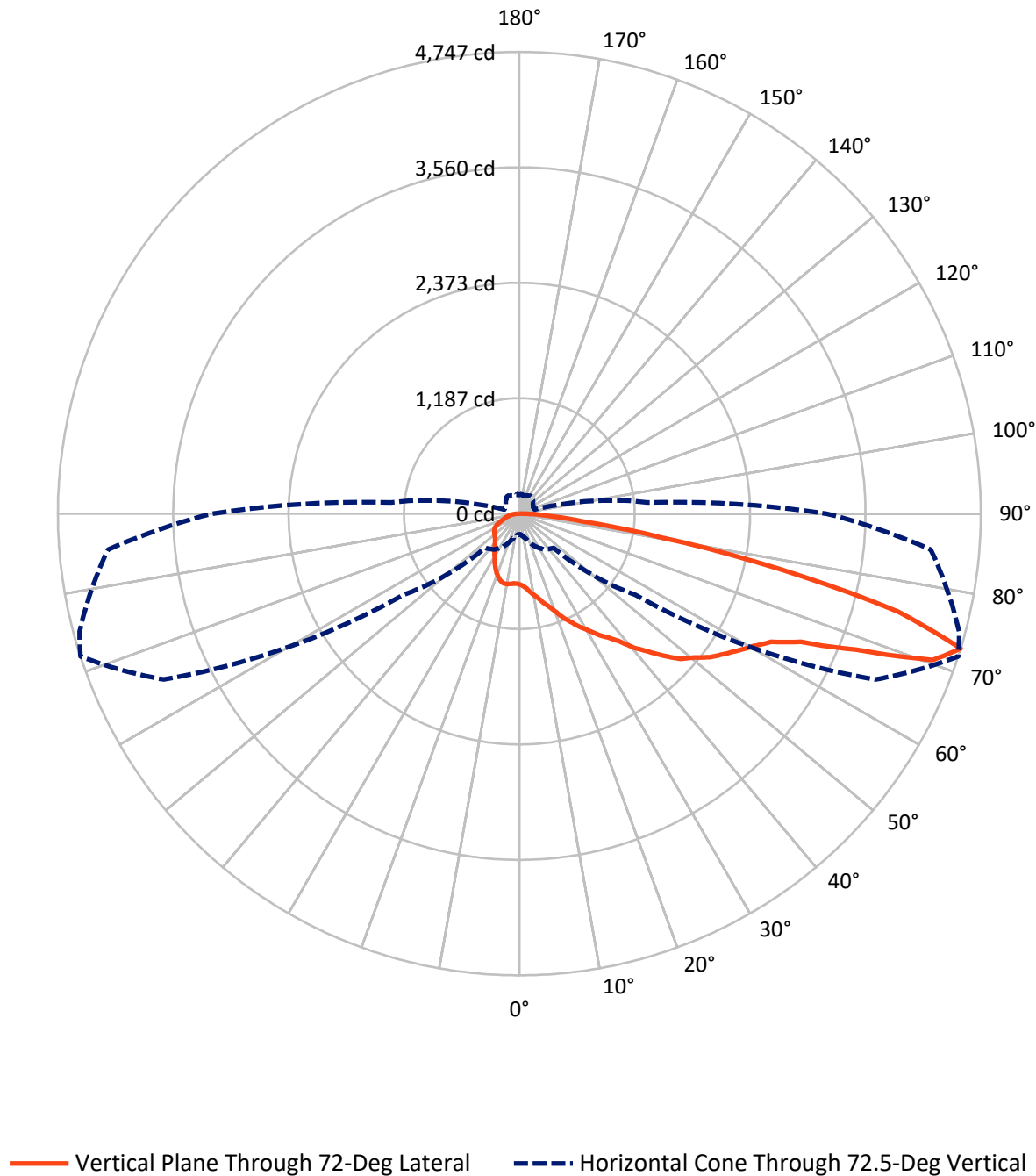
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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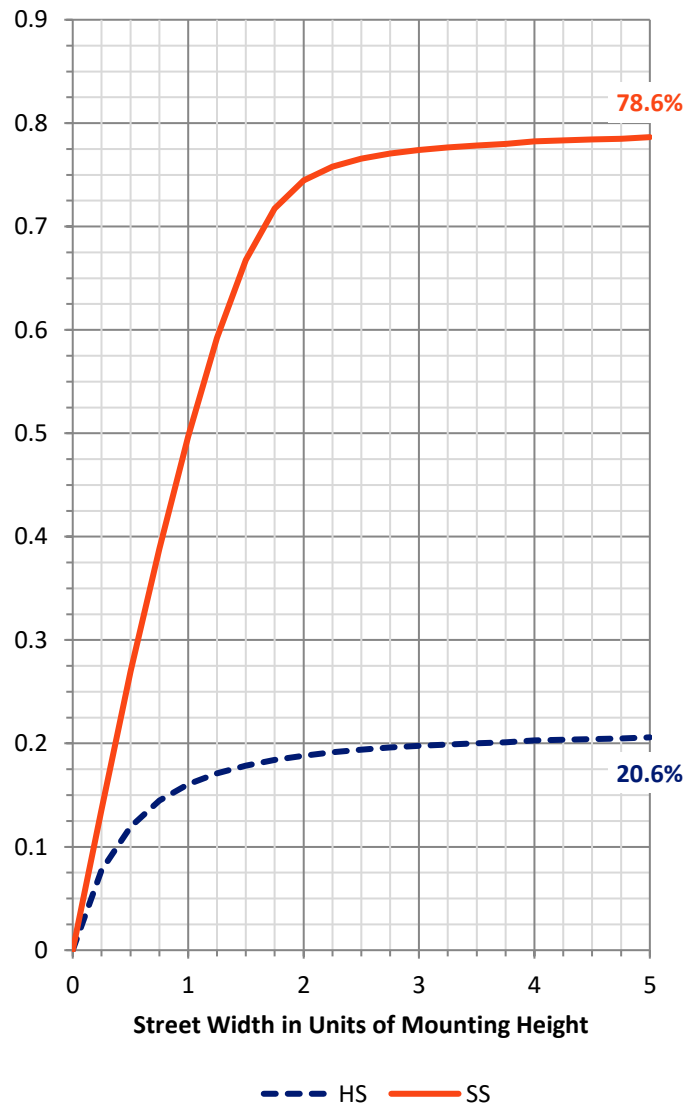
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1175.0   | 0.0    | 1175.0 |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 4408.0   | 0.0    | 4408.0 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 5583.0   | 0.0    | 5583.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.1   | 1.3       |
| 10°-20°   | 224.0  | 4.0       |
| 20°-30°   | 387.7  | 6.9       |
| 30°-40°   | 572.6  | 10.3      |
| 40°-50°   | 851.6  | 15.3      |
| 50°-60°   | 1167.5 | 20.9      |
| 60°-70°   | 1266.3 | 22.7      |
| 70°-80°   | 892.8  | 16.0      |
| 80°-90°   | 148.3  | 2.7       |
| 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°    | 5583.0 | 100.0     |
| 0°-180°   | 5583.0 | 100.0     |

**Coefficient of Utilization**



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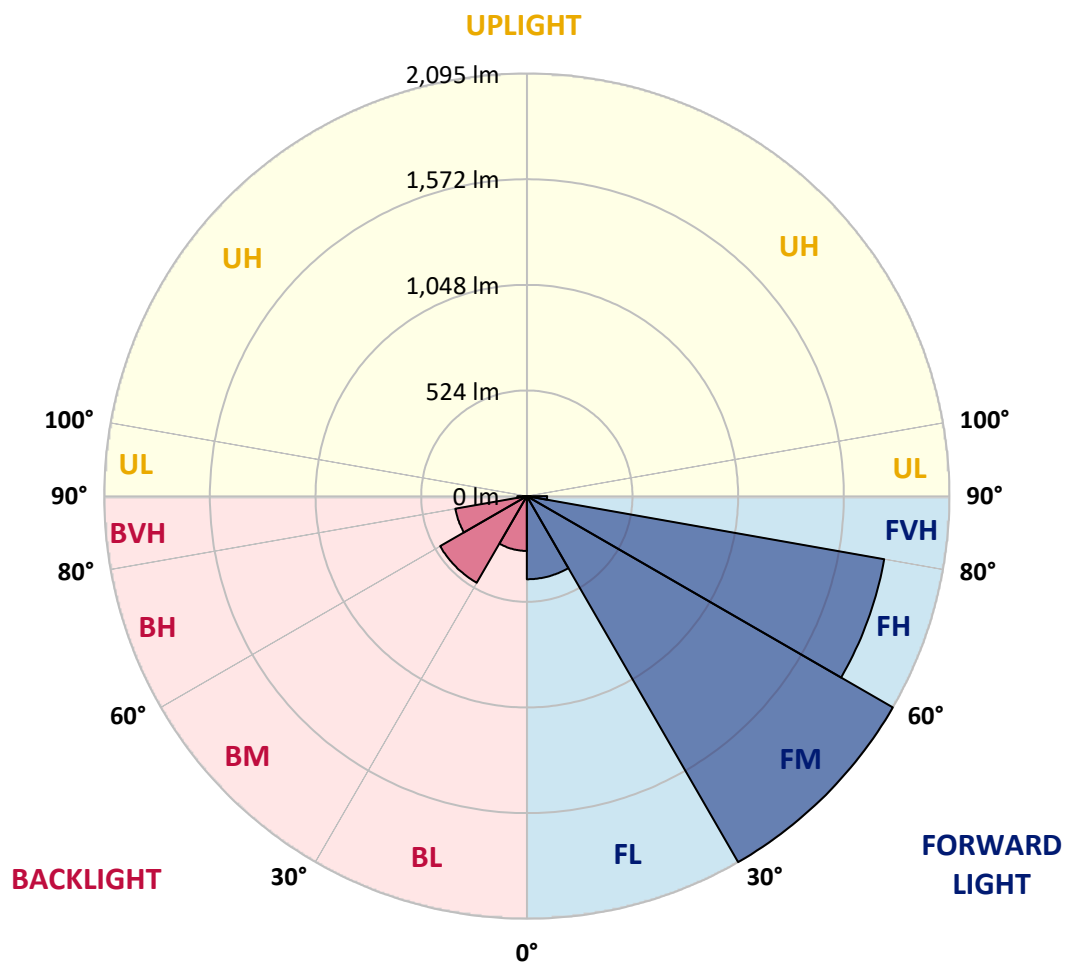
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 412.3  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2095.4 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1799.2 | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 101.1  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 271.6  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 496.3  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 359.9  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 47.2   | 0.8       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  | 729.3  |
| 2.5°  | 787.0  | 787.0  | 780.8  | 778.7  | 778.7  | 762.3  | 764.3  | 754.0  | 745.8  | 745.8  | 737.5  |
| 5°    | 828.2  | 824.1  | 824.1  | 824.1  | 813.8  | 807.6  | 805.5  | 787.0  | 772.6  | 774.6  | 749.9  |
| 7.5°  | 838.5  | 840.5  | 842.6  | 852.9  | 846.7  | 850.8  | 846.7  | 826.1  | 815.8  | 805.5  | 782.9  |
| 10°   | 844.7  | 848.8  | 848.8  | 863.2  | 863.2  | 873.5  | 879.7  | 871.4  | 852.9  | 842.6  | 805.5  |
| 12.5° | 859.1  | 852.9  | 861.1  | 871.4  | 881.7  | 900.3  | 918.8  | 910.6  | 898.2  | 885.9  | 844.7  |
| 15°   | 859.1  | 861.1  | 867.3  | 883.8  | 900.3  | 918.8  | 951.8  | 964.1  | 958.0  | 935.3  | 892.0  |
| 17.5° | 834.4  | 828.2  | 857.0  | 887.9  | 918.8  | 941.5  | 984.7  | 1013.6 | 1009.5 | 1001.2 | 935.3  |
| 20°   | 836.4  | 842.6  | 852.9  | 879.7  | 929.1  | 970.3  | 1023.9 | 1071.3 | 1081.6 | 1077.5 | 993.0  |
| 22.5° | 873.5  | 875.6  | 885.9  | 898.2  | 937.4  | 990.9  | 1071.3 | 1147.5 | 1166.0 | 1155.7 | 1056.9 |
| 25°   | 910.6  | 927.1  | 927.1  | 935.3  | 949.7  | 1005.3 | 1102.2 | 1209.3 | 1236.1 | 1238.1 | 1122.8 |
| 27.5° | 970.3  | 974.4  | 986.8  | 990.9  | 1003.3 | 1036.3 | 1137.2 | 1254.6 | 1316.4 | 1308.2 | 1182.5 |
| 30°   | 1040.4 | 1042.4 | 1050.7 | 1046.6 | 1048.6 | 1089.8 | 1170.2 | 1306.1 | 1390.6 | 1392.7 | 1246.4 |
| 32.5° | 1122.8 | 1139.3 | 1143.4 | 1116.6 | 1120.7 | 1131.0 | 1221.7 | 1367.9 | 1483.3 | 1468.9 | 1302.0 |
| 35°   | 1244.3 | 1250.5 | 1238.1 | 1225.8 | 1194.9 | 1188.7 | 1275.2 | 1429.7 | 1563.6 | 1580.1 | 1384.4 |
| 37.5° | 1394.7 | 1411.2 | 1394.7 | 1328.8 | 1295.8 | 1271.1 | 1341.2 | 1497.7 | 1660.5 | 1716.1 | 1466.8 |
| 40°   | 1534.8 | 1532.7 | 1516.3 | 1456.5 | 1398.8 | 1380.3 | 1435.9 | 1592.5 | 1810.9 | 1864.4 | 1586.3 |
| 42.5° | 1648.1 | 1641.9 | 1631.6 | 1586.3 | 1532.7 | 1501.8 | 1545.1 | 1691.4 | 1936.5 | 2039.5 | 1724.3 |
| 45°   | 1747.0 | 1738.8 | 1740.8 | 1689.3 | 1637.8 | 1654.3 | 1654.3 | 1804.7 | 2084.9 | 2212.6 | 1883.0 |
| 47.5° | 1839.7 | 1843.8 | 1837.6 | 1798.5 | 1759.4 | 1802.6 | 1780.0 | 1934.5 | 2231.1 | 2373.3 | 2016.9 |
| 50°   | 1946.8 | 1955.1 | 1934.5 | 1909.8 | 1874.7 | 1918.0 | 1889.2 | 2056.0 | 2325.9 | 2519.6 | 2177.6 |
| 52.5° | 2047.8 | 2056.0 | 2074.6 | 2043.7 | 2008.6 | 2043.7 | 1977.7 | 2169.3 | 2451.6 | 2661.7 | 2301.2 |
| 55°   | 2072.5 | 2068.4 | 2171.4 | 2204.4 | 2222.9 | 2117.8 | 2056.0 | 2266.2 | 2550.5 | 2752.4 | 2441.3 |
| 57.5° | 1959.2 | 1969.5 | 2109.6 | 2204.4 | 2402.1 | 2311.5 | 2144.6 | 2379.5 | 2653.5 | 2871.8 | 2571.1 |
| 60°   | 1677.0 | 1683.1 | 1858.2 | 2082.8 | 2371.2 | 2492.8 | 2383.6 | 2525.7 | 2766.8 | 2972.8 | 2717.3 |
| 62.5° | 1120.7 | 1168.1 | 1386.5 | 1738.8 | 2152.8 | 2542.2 | 2764.7 | 2773.0 | 2904.8 | 3100.5 | 2917.2 |
| 65°   | 591.3  | 613.9  | 784.9  | 1069.2 | 1631.6 | 2371.2 | 3123.2 | 3263.3 | 3180.9 | 3335.4 | 3205.6 |
| 67.5° | 387.3  | 395.5  | 488.3  | 648.9  | 941.5  | 1730.5 | 3164.4 | 4114.1 | 3735.0 | 3782.4 | 3667.1 |
| 70°   | 288.4  | 292.5  | 360.5  | 480.0  | 583.0  | 925.0  | 2593.7 | 4511.7 | 4509.7 | 4384.0 | 4215.1 |
| 72.5° | 212.2  | 218.4  | 265.8  | 366.7  | 449.1  | 498.6  | 1458.6 | 4035.8 | 4746.6 | 4682.7 | 4248.0 |
| 75°   | 166.9  | 171.0  | 195.7  | 284.3  | 362.6  | 327.6  | 739.6  | 2989.3 | 4025.5 | 4332.5 | 3887.5 |
| 77.5° | 136.0  | 140.1  | 154.5  | 206.0  | 290.5  | 253.4  | 354.3  | 1928.3 | 2729.7 | 3119.1 | 2974.8 |
| 80°   | 113.3  | 113.3  | 123.6  | 146.3  | 224.6  | 191.6  | 210.1  | 1083.6 | 1470.9 | 1623.4 | 1349.4 |
| 82.5° | 96.8   | 94.8   | 103.0  | 107.1  | 166.9  | 138.0  | 136.0  | 490.3  | 646.9  | 686.0  | 506.8  |
| 85°   | 61.8   | 63.9   | 96.8   | 92.7   | 109.2  | 94.8   | 76.2   | 232.8  | 304.9  | 311.1  | 189.5  |
| 87.5° | 24.7   | 24.7   | 41.2   | 51.5   | 61.8   | 57.7   | 37.1   | 105.1  | 133.9  | 133.9  | 53.6   |
| 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°    | 729.3  | 729.3  | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 | 729.3 |
| 2.5°  | 735.5  | 727.2  | 721.1 | 716.9 | 706.6 | 696.3 | 698.4 | 696.3 | 688.1 | 684.0 | 684.0 |
| 5°    | 743.7  | 735.5  | 725.2 | 708.7 | 698.4 | 686.0 | 690.1 | 681.9 | 673.7 | 679.8 | 669.5 |
| 7.5°  | 764.3  | 749.9  | 735.5 | 710.7 | 694.3 | 675.7 | 667.5 | 663.4 | 657.2 | 653.1 | 653.1 |
| 10°   | 793.2  | 772.6  | 745.8 | 708.7 | 681.9 | 653.1 | 648.9 | 640.7 | 634.5 | 634.5 | 632.5 |
| 12.5° | 822.0  | 799.3  | 754.0 | 694.3 | 648.9 | 628.3 | 626.3 | 628.3 | 632.5 | 634.5 | 636.6 |
| 15°   | 859.1  | 822.0  | 752.0 | 667.5 | 622.2 | 613.9 | 624.2 | 632.5 | 640.7 | 648.9 | 646.9 |
| 17.5° | 894.1  | 850.8  | 733.4 | 634.5 | 599.5 | 601.6 | 620.1 | 636.6 | 653.1 | 661.3 | 663.4 |
| 20°   | 941.5  | 877.6  | 706.6 | 595.4 | 576.8 | 595.4 | 620.1 | 640.7 | 659.2 | 669.5 | 671.6 |
| 22.5° | 995.0  | 908.5  | 671.6 | 560.4 | 558.3 | 576.8 | 601.6 | 632.5 | 653.1 | 671.6 | 669.5 |
| 25°   | 1042.4 | 929.1  | 626.3 | 531.5 | 535.6 | 548.0 | 576.8 | 609.8 | 630.4 | 651.0 | 644.8 |
| 27.5° | 1073.3 | 933.2  | 578.9 | 510.9 | 510.9 | 523.3 | 550.1 | 570.7 | 589.2 | 605.7 | 607.7 |
| 30°   | 1108.4 | 925.0  | 525.3 | 484.1 | 484.1 | 500.6 | 510.9 | 523.3 | 533.6 | 537.7 | 541.8 |
| 32.5° | 1149.6 | 906.5  | 492.4 | 463.5 | 463.5 | 475.9 | 482.1 | 478.0 | 475.9 | 465.6 | 471.8 |
| 35°   | 1188.7 | 879.7  | 455.3 | 436.8 | 445.0 | 451.2 | 449.1 | 436.8 | 424.4 | 405.8 | 399.7 |
| 37.5° | 1236.1 | 852.9  | 422.3 | 407.9 | 422.3 | 424.4 | 424.4 | 410.0 | 393.5 | 370.8 | 370.8 |
| 40°   | 1308.2 | 832.3  | 395.5 | 389.4 | 403.8 | 401.7 | 391.4 | 381.1 | 387.3 | 374.9 | 374.9 |
| 42.5° | 1384.4 | 824.1  | 370.8 | 372.9 | 379.1 | 381.1 | 370.8 | 358.5 | 383.2 | 368.8 | 370.8 |
| 45°   | 1479.2 | 830.2  | 354.3 | 352.3 | 366.7 | 364.6 | 358.5 | 348.2 | 356.4 | 319.3 | 309.0 |
| 47.5° | 1567.8 | 842.6  | 346.1 | 337.9 | 354.3 | 358.5 | 350.2 | 327.6 | 315.2 | 292.5 | 288.4 |
| 50°   | 1648.1 | 869.4  | 337.9 | 321.4 | 337.9 | 346.1 | 331.7 | 307.0 | 292.5 | 278.1 | 278.1 |
| 52.5° | 1724.3 | 908.5  | 333.7 | 302.8 | 317.3 | 327.6 | 319.3 | 294.6 | 278.1 | 271.9 | 265.8 |
| 55°   | 1802.6 | 943.5  | 327.6 | 290.5 | 294.6 | 315.2 | 313.1 | 280.2 | 263.7 | 263.7 | 261.6 |
| 57.5° | 1913.9 | 990.9  | 319.3 | 269.9 | 278.1 | 300.8 | 300.8 | 274.0 | 255.5 | 257.5 | 259.6 |
| 60°   | 2027.2 | 1046.6 | 311.1 | 249.3 | 255.5 | 286.4 | 290.5 | 265.8 | 249.3 | 251.3 | 249.3 |
| 62.5° | 2208.5 | 1149.6 | 294.6 | 224.6 | 236.9 | 267.8 | 278.1 | 255.5 | 241.0 | 245.2 | 245.2 |
| 65°   | 2482.5 | 1326.7 | 259.6 | 204.0 | 218.4 | 251.3 | 265.8 | 245.2 | 228.7 | 241.0 | 236.9 |
| 67.5° | 2923.3 | 1569.8 | 218.4 | 187.5 | 206.0 | 234.9 | 251.3 | 232.8 | 218.4 | 236.9 | 230.7 |
| 70°   | 3318.9 | 1689.3 | 187.5 | 173.1 | 187.5 | 216.3 | 234.9 | 220.4 | 206.0 | 224.6 | 216.3 |
| 72.5° | 3158.2 | 1324.7 | 162.8 | 156.6 | 171.0 | 195.7 | 218.4 | 204.0 | 189.5 | 199.8 | 191.6 |
| 75°   | 2725.6 | 1054.8 | 142.1 | 140.1 | 152.5 | 177.2 | 199.8 | 189.5 | 175.1 | 179.2 | 175.1 |
| 77.5° | 2066.3 | 871.4  | 121.5 | 119.5 | 129.8 | 158.6 | 179.2 | 171.0 | 156.6 | 154.5 | 154.5 |
| 80°   | 922.9  | 428.5  | 100.9 | 100.9 | 107.1 | 136.0 | 152.5 | 148.3 | 133.9 | 131.8 | 129.8 |
| 82.5° | 302.8  | 162.8  | 82.4  | 78.3  | 86.5  | 113.3 | 136.0 | 131.8 | 117.4 | 113.3 | 109.2 |
| 85°   | 121.5  | 78.3   | 59.7  | 59.7  | 68.0  | 94.8  | 121.5 | 113.3 | 94.8  | 84.5  | 84.5  |
| 87.5° | 41.2   | 33.0   | 30.9  | 30.9  | 43.3  | 63.9  | 90.6  | 76.2  | 68.0  | 59.7  | 61.8  |
| 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)