

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: P671119

Luminaire Tested: **CCP-SA-2A-750-U-T4W**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671119  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-750-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4W  
distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5646.3 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

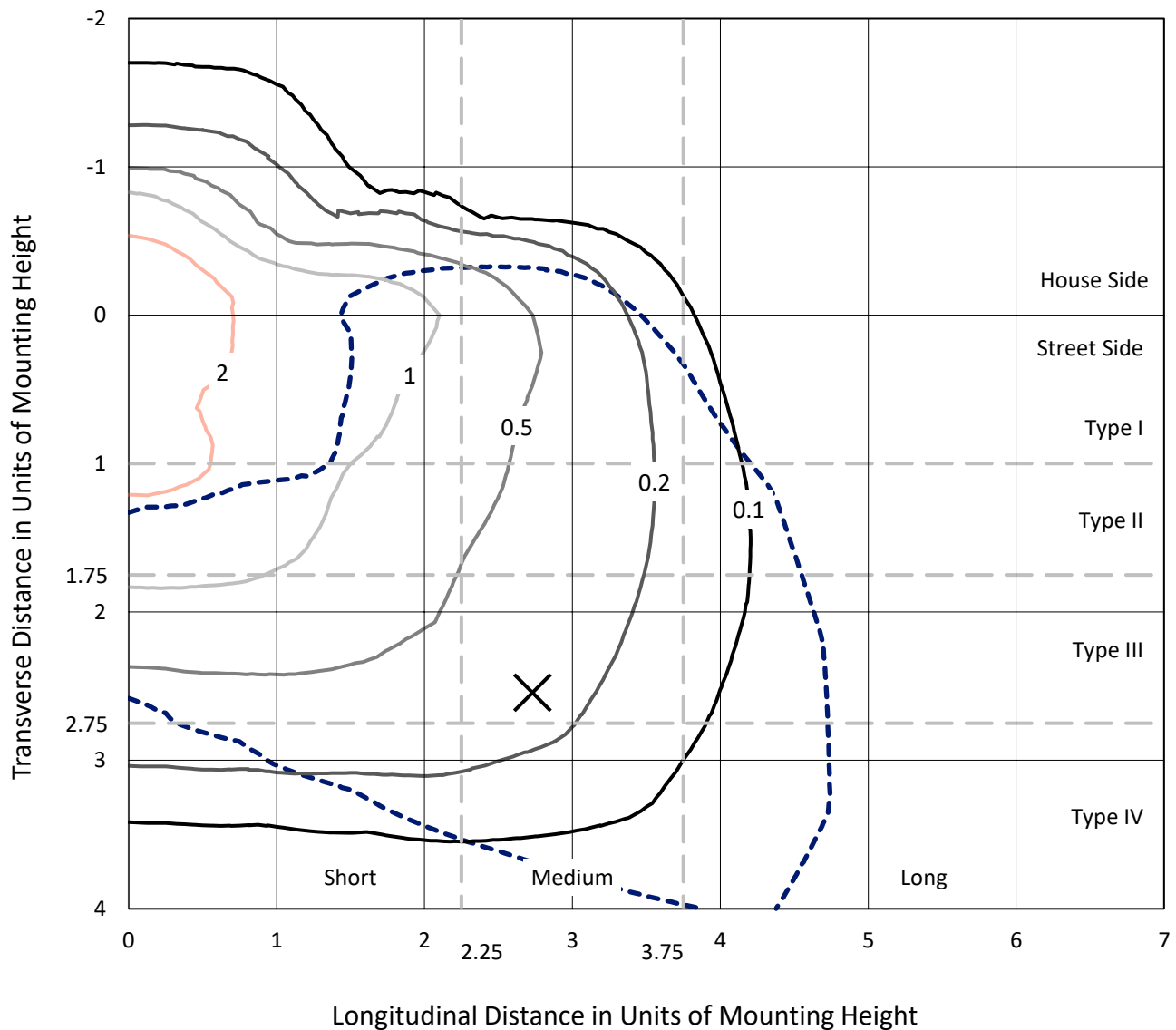
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

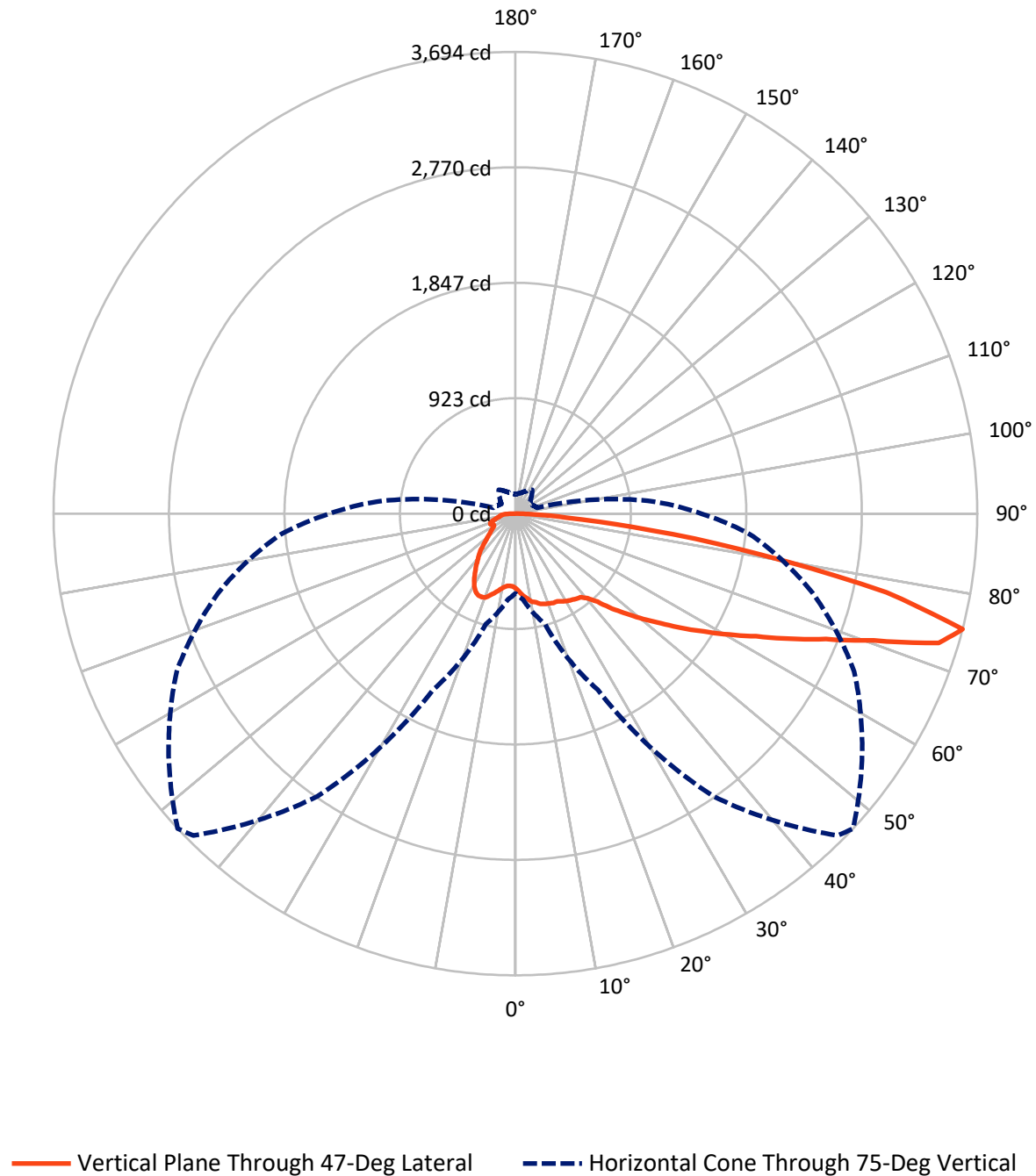
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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    | 1350.3   | 0.0    | 1350.3 |
|                    | % Fixture | 23.9     | 0.0    | 23.9   |
| <b>Street Side</b> | Lumens    | 4296.0   | 0.0    | 4296.0 |
|                    | % Fixture | 76.1     | 0.0    | 76.1   |
| <b>Total</b>       | Lumens    | 5646.3   | 0.0    | 5646.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.6   | 1.1       |
| 10°-20°   | 201.3  | 3.6       |
| 20°-30°   | 344.7  | 6.1       |
| 30°-40°   | 482.4  | 8.5       |
| 40°-50°   | 672.5  | 11.9      |
| 50°-60°   | 1005.3 | 17.8      |
| 60°-70°   | 1449.3 | 25.7      |
| 70°-80°   | 1233.7 | 21.8      |
| 80°-90°   | 196.5  | 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°    | 5646.3 | 100.0     |
| 0°-180°   | 5646.3 | 100.0     |

**Coefficient of Utilization**



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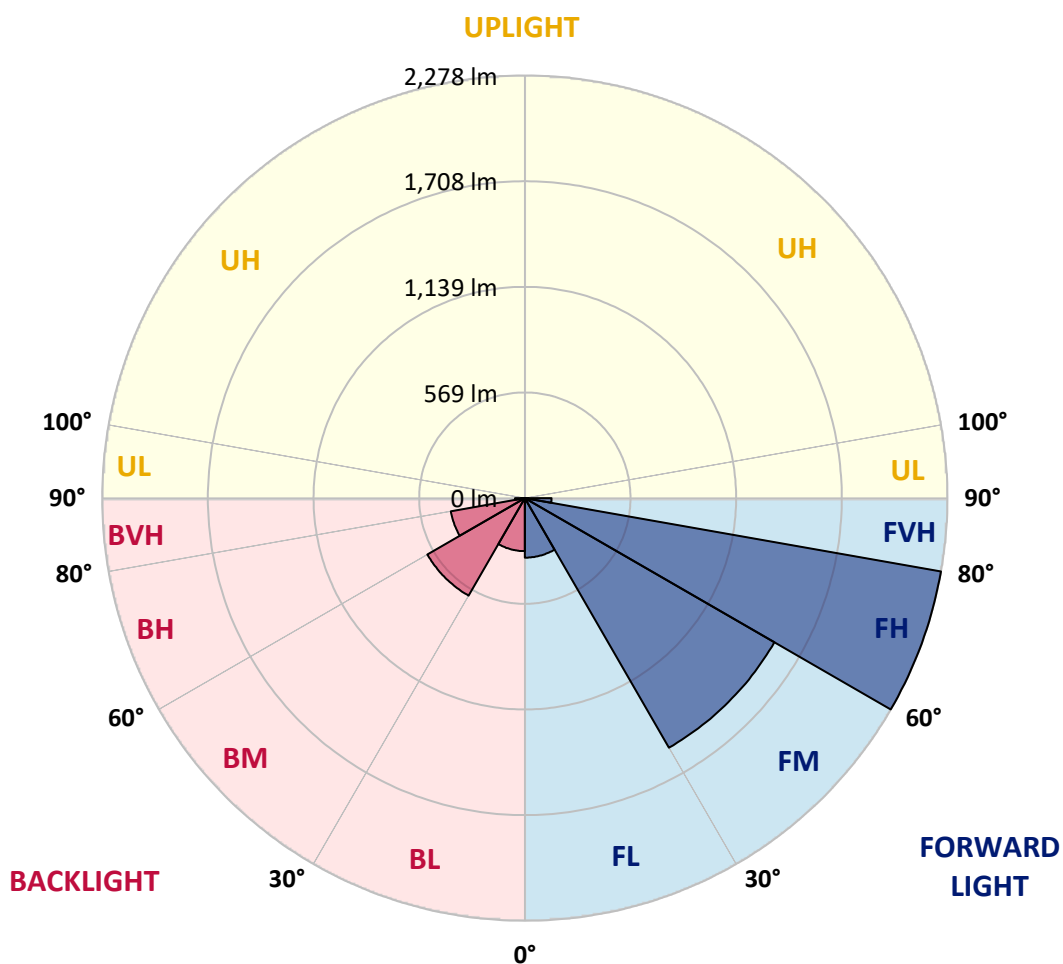
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 320.8  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 1553.3 | 27.5      |                         |      |         |
| FH   | (60°-80°)   | 2278.0 | 40.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 144.0  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 285.8  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 606.9  | 10.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 405.1  | 7.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 52.5   | 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°    | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  | 599.5  |
| 2.5°  | 642.8  | 644.8  | 644.8  | 640.7  | 636.6  | 628.4  | 628.4  | 620.1  | 616.0  | 605.7  | 601.6  |
| 5°    | 702.5  | 696.3  | 690.2  | 688.1  | 677.8  | 663.4  | 661.3  | 653.1  | 630.4  | 620.1  | 605.7  |
| 7.5°  | 745.8  | 743.7  | 741.7  | 733.4  | 714.9  | 692.2  | 686.0  | 673.7  | 651.0  | 630.4  | 613.9  |
| 10°   | 780.8  | 789.1  | 780.8  | 762.3  | 743.7  | 719.0  | 717.0  | 694.3  | 673.7  | 649.0  | 628.4  |
| 12.5° | 820.0  | 822.0  | 807.6  | 784.9  | 756.1  | 735.5  | 727.3  | 719.0  | 696.3  | 675.7  | 644.8  |
| 15°   | 846.7  | 842.6  | 832.3  | 801.4  | 768.5  | 747.9  | 749.9  | 739.6  | 714.9  | 700.5  | 667.5  |
| 17.5° | 846.7  | 846.7  | 830.3  | 807.6  | 778.8  | 760.2  | 760.2  | 754.0  | 737.6  | 717.0  | 694.3  |
| 20°   | 830.3  | 830.3  | 820.0  | 807.6  | 774.6  | 770.5  | 766.4  | 762.3  | 762.3  | 743.7  | 710.8  |
| 22.5° | 809.7  | 805.5  | 809.7  | 789.1  | 766.4  | 770.5  | 776.7  | 774.6  | 768.5  | 752.0  | 729.3  |
| 25°   | 789.1  | 791.1  | 795.2  | 780.8  | 760.2  | 778.8  | 776.7  | 787.0  | 782.9  | 770.5  | 752.0  |
| 27.5° | 787.0  | 791.1  | 793.2  | 778.8  | 770.5  | 787.0  | 795.2  | 805.5  | 807.6  | 795.2  | 772.6  |
| 30°   | 817.9  | 815.8  | 813.8  | 795.2  | 789.1  | 803.5  | 811.7  | 826.1  | 838.5  | 811.7  | 793.2  |
| 32.5° | 898.2  | 885.9  | 873.5  | 824.1  | 805.5  | 815.8  | 824.1  | 844.7  | 846.7  | 832.3  | 805.5  |
| 35°   | 1026.0 | 1017.7 | 976.5  | 890.0  | 838.5  | 828.2  | 836.4  | 850.9  | 855.0  | 844.7  | 824.1  |
| 37.5° | 1172.3 | 1168.1 | 1110.5 | 1005.4 | 906.5  | 857.0  | 848.8  | 869.4  | 885.9  | 863.2  | 834.4  |
| 40°   | 1316.5 | 1300.0 | 1258.8 | 1155.8 | 993.0  | 900.3  | 890.0  | 900.3  | 906.5  | 890.0  | 871.5  |
| 42.5° | 1446.3 | 1427.7 | 1417.4 | 1314.4 | 1106.3 | 972.4  | 964.2  | 939.5  | 958.0  | 937.4  | 912.7  |
| 45°   | 1555.5 | 1551.3 | 1547.2 | 1458.6 | 1236.1 | 1089.8 | 1083.7 | 1019.8 | 1040.4 | 1023.9 | 988.9  |
| 47.5° | 1633.7 | 1652.3 | 1646.1 | 1596.7 | 1384.5 | 1215.5 | 1197.0 | 1114.6 | 1145.5 | 1129.0 | 1094.0 |
| 50°   | 1726.5 | 1736.8 | 1730.6 | 1697.6 | 1522.5 | 1359.7 | 1324.7 | 1240.2 | 1275.3 | 1273.2 | 1254.7 |
| 52.5° | 1808.9 | 1839.8 | 1804.7 | 1802.7 | 1720.3 | 1516.3 | 1456.6 | 1376.2 | 1433.9 | 1456.6 | 1454.5 |
| 55°   | 1905.7 | 1930.4 | 1920.1 | 1916.0 | 1897.4 | 1668.8 | 1615.2 | 1518.4 | 1615.2 | 1648.2 | 1677.0 |
| 57.5° | 1988.1 | 1986.0 | 2025.2 | 2072.6 | 2095.2 | 1843.9 | 1780.0 | 1666.7 | 1813.0 | 1850.1 | 1930.4 |
| 60°   | 2025.2 | 2060.2 | 2126.1 | 2245.6 | 2309.5 | 2031.4 | 1965.4 | 1874.8 | 2012.8 | 2041.7 | 2190.0 |
| 62.5° | 2049.9 | 2080.8 | 2208.5 | 2410.4 | 2447.5 | 2223.0 | 2161.2 | 2070.5 | 2231.2 | 2251.8 | 2472.2 |
| 65°   | 1981.9 | 2010.8 | 2264.2 | 2472.2 | 2604.1 | 2429.0 | 2414.6 | 2319.8 | 2449.6 | 2461.9 | 2768.9 |
| 67.5° | 1903.6 | 1934.5 | 2216.8 | 2550.5 | 2812.2 | 2703.0 | 2680.3 | 2567.0 | 2665.9 | 2651.5 | 2995.5 |
| 70°   | 1765.6 | 1806.8 | 2095.2 | 2618.5 | 3042.9 | 3086.2 | 3040.9 | 2880.2 | 2890.5 | 2754.5 | 3005.8 |
| 72.5° | 1345.3 | 1372.1 | 1639.9 | 2348.6 | 3150.1 | 3617.7 | 3539.4 | 3218.0 | 3100.6 | 2775.1 | 2653.5 |
| 75°   | 638.7  | 688.1  | 914.7  | 1553.4 | 2760.7 | 3642.4 | 3693.9 | 3384.9 | 2989.4 | 2461.9 | 1881.0 |
| 77.5° | 185.4  | 185.4  | 278.1  | 659.3  | 1730.6 | 2935.8 | 3032.6 | 2874.0 | 2466.1 | 1823.3 | 988.9  |
| 80°   | 101.0  | 107.1  | 146.3  | 232.8  | 760.2  | 1852.1 | 1992.2 | 1905.7 | 1452.4 | 721.1  | 255.5  |
| 82.5° | 57.7   | 59.7   | 96.8   | 140.1  | 346.1  | 1007.4 | 1089.8 | 988.9  | 552.1  | 218.4  | 119.5  |
| 85°   | 33.0   | 35.0   | 55.6   | 92.7   | 206.0  | 370.8  | 403.8  | 350.2  | 222.5  | 146.3  | 59.7   |
| 87.5° | 16.5   | 16.5   | 26.8   | 43.3   | 105.1  | 105.1  | 103.0  | 125.7  | 133.9  | 88.6   | 26.8   |
| 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°    | 599.5  | 599.5  | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 | 599.5 |
| 2.5°  | 599.5  | 597.5  | 597.5 | 589.2 | 587.2 | 581.0 | 581.0 | 576.9 | 574.8 | 581.0 | 581.0 |
| 5°    | 601.6  | 591.3  | 589.2 | 581.0 | 583.0 | 578.9 | 587.2 | 583.0 | 581.0 | 581.0 | 578.9 |
| 7.5°  | 605.7  | 595.4  | 587.2 | 581.0 | 578.9 | 585.1 | 595.4 | 595.4 | 607.8 | 601.6 | 601.6 |
| 10°   | 616.0  | 609.8  | 599.5 | 595.4 | 595.4 | 601.6 | 613.9 | 622.2 | 632.5 | 632.5 | 626.3 |
| 12.5° | 640.7  | 630.4  | 618.1 | 611.9 | 620.1 | 626.3 | 638.7 | 646.9 | 659.3 | 663.4 | 659.3 |
| 15°   | 659.3  | 649.0  | 644.8 | 640.7 | 646.9 | 655.1 | 665.4 | 673.7 | 688.1 | 692.2 | 690.2 |
| 17.5° | 684.0  | 671.6  | 669.6 | 671.6 | 675.7 | 681.9 | 688.1 | 694.3 | 704.6 | 704.6 | 704.6 |
| 20°   | 696.3  | 692.2  | 690.2 | 696.3 | 704.6 | 712.8 | 708.7 | 704.6 | 702.5 | 706.7 | 704.6 |
| 22.5° | 719.0  | 714.9  | 717.0 | 723.1 | 723.1 | 719.0 | 712.8 | 698.4 | 694.3 | 698.4 | 694.3 |
| 25°   | 739.6  | 735.5  | 735.5 | 731.4 | 729.3 | 714.9 | 702.5 | 690.2 | 675.7 | 681.9 | 679.9 |
| 27.5° | 760.2  | 758.2  | 758.2 | 741.7 | 721.1 | 696.3 | 679.9 | 665.4 | 657.2 | 667.5 | 661.3 |
| 30°   | 784.9  | 787.0  | 776.7 | 737.6 | 688.1 | 661.3 | 642.8 | 640.7 | 638.7 | 644.8 | 642.8 |
| 32.5° | 807.6  | 809.7  | 793.2 | 731.4 | 663.4 | 611.9 | 593.3 | 595.4 | 605.7 | 616.0 | 626.3 |
| 35°   | 820.0  | 830.3  | 809.7 | 710.8 | 613.9 | 556.3 | 535.7 | 554.2 | 572.7 | 587.2 | 597.5 |
| 37.5° | 842.6  | 869.4  | 834.4 | 688.1 | 570.7 | 506.8 | 492.4 | 498.6 | 521.2 | 543.9 | 554.2 |
| 40°   | 875.6  | 906.5  | 840.6 | 644.8 | 513.0 | 457.4 | 449.1 | 451.2 | 459.4 | 473.8 | 484.1 |
| 42.5° | 933.3  | 966.2  | 846.7 | 589.2 | 455.3 | 426.5 | 403.8 | 397.6 | 391.4 | 391.4 | 389.4 |
| 45°   | 1017.7 | 1048.6 | 838.5 | 519.2 | 397.6 | 377.0 | 360.5 | 346.1 | 329.6 | 302.9 | 307.0 |
| 47.5° | 1141.4 | 1166.1 | 844.7 | 457.4 | 344.1 | 327.6 | 315.2 | 298.7 | 274.0 | 245.2 | 243.1 |
| 50°   | 1328.8 | 1291.7 | 836.4 | 393.5 | 304.9 | 290.5 | 280.2 | 257.5 | 228.7 | 208.1 | 206.0 |
| 52.5° | 1547.2 | 1473.0 | 828.2 | 339.9 | 271.9 | 259.6 | 251.3 | 226.6 | 199.8 | 189.5 | 187.5 |
| 55°   | 1810.9 | 1703.8 | 840.6 | 292.5 | 247.2 | 236.9 | 228.7 | 206.0 | 185.4 | 177.2 | 175.1 |
| 57.5° | 2122.0 | 1953.1 | 908.6 | 255.5 | 220.4 | 216.3 | 214.3 | 195.7 | 177.2 | 171.0 | 168.9 |
| 60°   | 2414.6 | 2192.1 | 953.9 | 228.7 | 195.7 | 199.8 | 204.0 | 195.7 | 175.1 | 171.0 | 171.0 |
| 62.5° | 2659.7 | 2389.8 | 881.8 | 206.0 | 183.4 | 195.7 | 214.3 | 208.1 | 199.8 | 204.0 | 199.8 |
| 65°   | 2876.0 | 2457.8 | 659.3 | 193.7 | 177.2 | 206.0 | 236.9 | 234.9 | 216.3 | 220.4 | 218.4 |
| 67.5° | 2913.1 | 2375.4 | 430.6 | 183.4 | 173.1 | 226.6 | 265.8 | 241.0 | 204.0 | 204.0 | 197.8 |
| 70°   | 2758.6 | 2155.0 | 288.4 | 173.1 | 171.0 | 226.6 | 271.9 | 226.6 | 191.6 | 191.6 | 183.4 |
| 72.5° | 2264.2 | 1722.3 | 222.5 | 162.8 | 156.6 | 201.9 | 257.5 | 214.3 | 179.2 | 175.1 | 160.7 |
| 75°   | 1487.5 | 1110.5 | 181.3 | 154.5 | 136.0 | 177.2 | 232.8 | 197.8 | 171.0 | 158.6 | 152.5 |
| 77.5° | 729.3  | 498.6  | 152.5 | 136.0 | 117.4 | 154.5 | 212.2 | 187.5 | 160.7 | 148.3 | 144.2 |
| 80°   | 199.8  | 179.2  | 127.7 | 119.5 | 98.9  | 133.9 | 199.8 | 179.2 | 150.4 | 138.0 | 131.9 |
| 82.5° | 113.3  | 111.3  | 103.0 | 96.8  | 82.4  | 133.9 | 201.9 | 179.2 | 142.2 | 140.1 | 119.5 |
| 85°   | 61.8   | 65.9   | 74.2  | 72.1  | 63.9  | 119.5 | 191.6 | 156.6 | 115.4 | 96.8  | 96.8  |
| 87.5° | 24.7   | 30.9   | 37.1  | 41.2  | 43.3  | 88.6  | 144.2 | 119.5 | 88.6  | 74.2  | 74.2  |
| 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)