

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: P673733

Luminaire Tested: **CCP-SA-2A-827-U-SL2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673733  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-827-U-SL2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL2 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

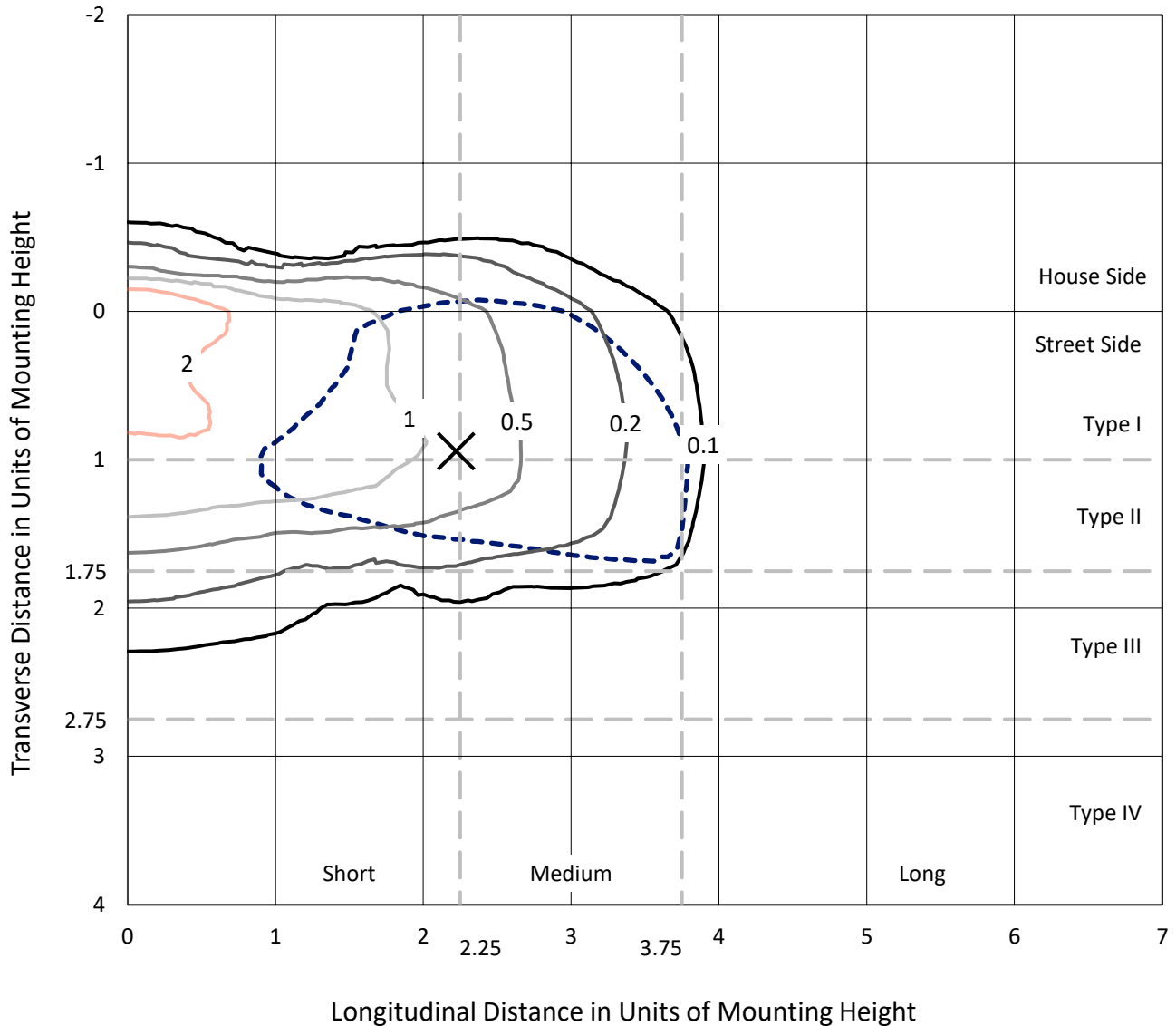
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3234.5 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
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

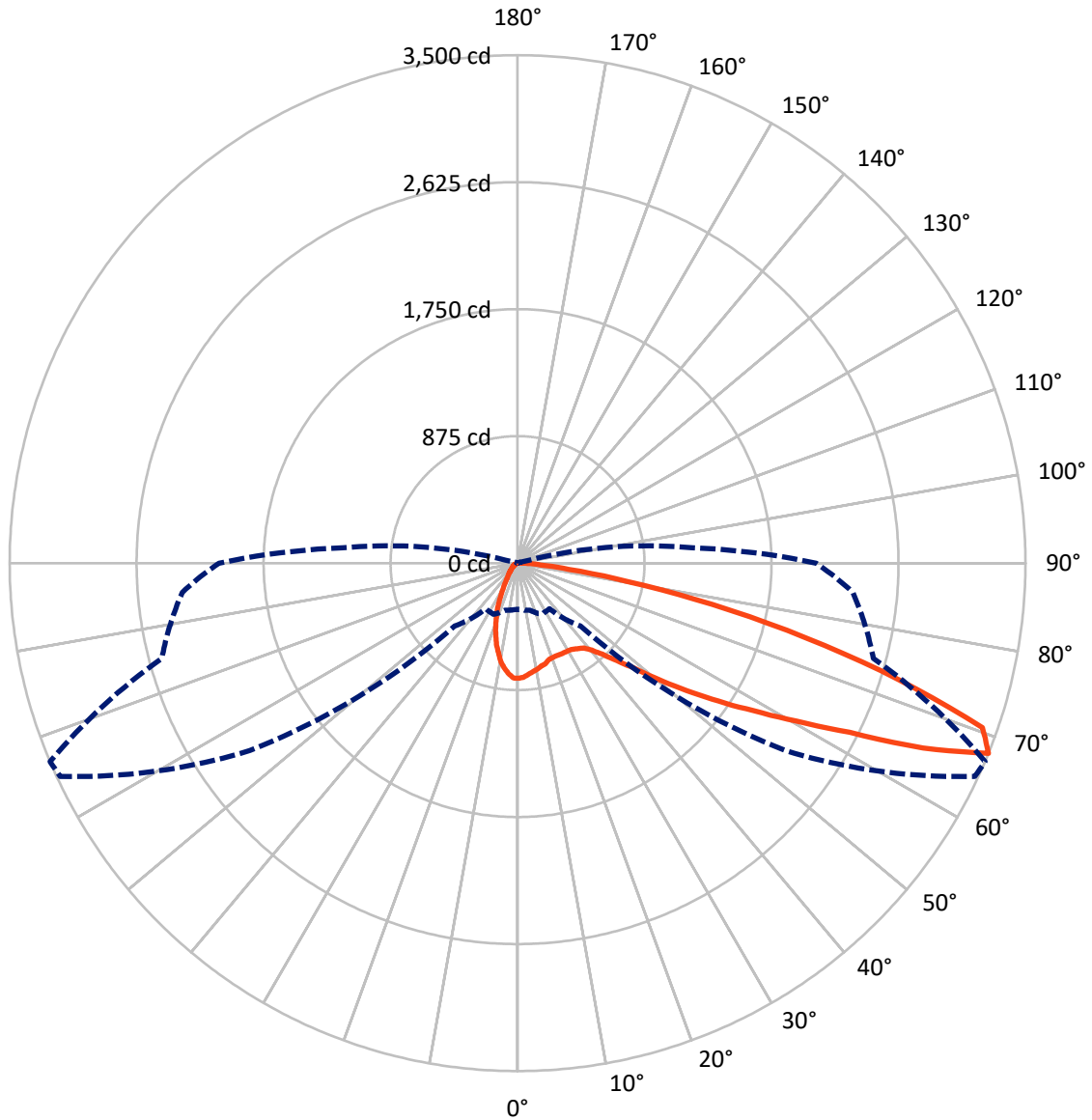
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 407.1    | 0.0    | 407.1  |
|                    | % Fixture | 12.6     | 0.0    | 12.6   |
| <b>Street Side</b> | Lumens    | 2827.4   | 0.0    | 2827.4 |
|                    | % Fixture | 87.4     | 0.0    | 87.4   |
| <b>Total</b>       | Lumens    | 3234.5   | 0.0    | 3234.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.8   | 2.1       |
| 10°-20°   | 148.5  | 4.6       |
| 20°-30°   | 211.1  | 6.5       |
| 30°-40°   | 307.5  | 9.5       |
| 40°-50°   | 475.9  | 14.7      |
| 50°-60°   | 730.3  | 22.6      |
| 60°-70°   | 791.7  | 24.5      |
| 70°-80°   | 446.6  | 13.8      |
| 80°-90°   | 56.1   | 1.7       |
| 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°    | 3234.5 | 100.0     |
| 0°-180°   | 3234.5 | 100.0     |



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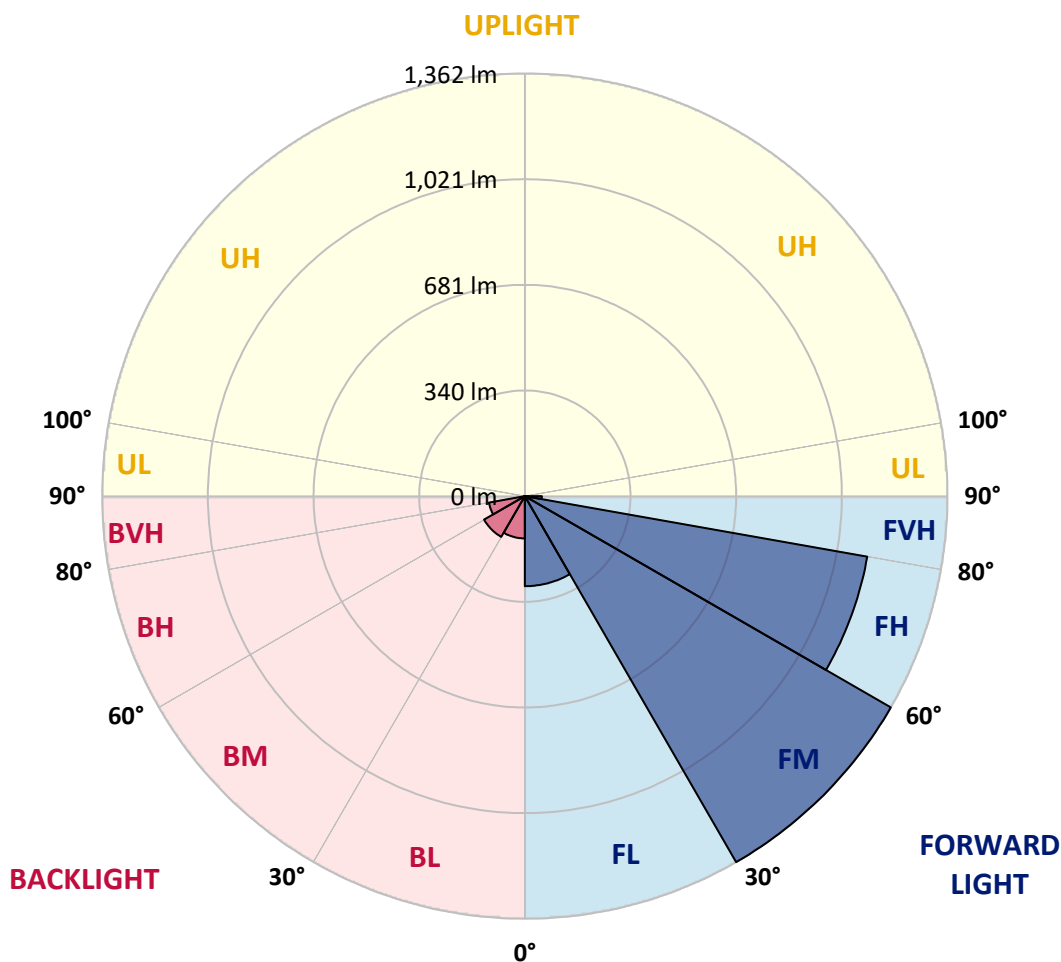
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 290.2  | 9.0       |                         |      |         |
| FM (30°-60°)   | 1362.0 | 42.1      |                         |      |         |
| FH (60°-80°)   | 1120.7 | 34.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 54.5   | 1.7       |                         |      | G1/100  |
| BL (0°-30°)    | 136.3  | 4.2       | B1/500                  |      |         |
| BM (30°-60°)   | 151.6  | 4.7       | B0/220                  |      |         |
| BH (60°-80°)   | 117.6  | 3.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.6    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  | 793.4  |
| 2.5°  | 759.1  | 763.0  | 768.4  | 776.2  | 781.7  | 778.5  | 780.9  | 794.1  | 787.1  | 793.4  | 790.2  |
| 5°    | 717.0  | 720.9  | 728.7  | 727.9  | 734.1  | 745.8  | 761.4  | 778.5  | 770.8  | 789.5  | 796.5  |
| 7.5°  | 673.3  | 671.8  | 671.8  | 688.1  | 701.4  | 717.8  | 726.3  | 754.4  | 755.2  | 771.5  | 788.7  |
| 10°   | 633.6  | 638.3  | 646.1  | 652.3  | 664.8  | 688.1  | 713.1  | 734.9  | 743.5  | 776.2  | 780.9  |
| 12.5° | 609.4  | 611.8  | 621.1  | 626.6  | 642.9  | 665.5  | 692.0  | 720.1  | 727.1  | 760.6  | 783.2  |
| 15°   | 599.3  | 604.8  | 607.9  | 618.0  | 626.6  | 647.6  | 667.1  | 699.1  | 719.3  | 745.8  | 773.9  |
| 17.5° | 607.1  | 604.8  | 606.3  | 609.4  | 619.6  | 638.3  | 659.3  | 691.3  | 698.3  | 742.7  | 784.8  |
| 20°   | 617.2  | 618.0  | 613.3  | 611.8  | 609.4  | 627.4  | 644.5  | 685.8  | 693.6  | 742.7  | 791.8  |
| 22.5° | 644.5  | 635.9  | 644.5  | 632.0  | 619.6  | 627.4  | 643.7  | 686.6  | 692.0  | 741.9  | 798.8  |
| 25°   | 678.0  | 679.6  | 681.9  | 655.4  | 637.5  | 632.0  | 649.2  | 688.9  | 693.6  | 748.2  | 801.9  |
| 27.5° | 725.6  | 732.6  | 720.9  | 707.6  | 671.8  | 644.5  | 648.4  | 687.4  | 695.9  | 745.0  | 809.7  |
| 30°   | 789.5  | 784.0  | 785.6  | 755.2  | 720.1  | 677.2  | 666.3  | 691.3  | 697.5  | 748.9  | 824.5  |
| 32.5° | 844.8  | 838.6  | 849.5  | 838.6  | 783.2  | 724.0  | 687.4  | 699.1  | 706.1  | 758.3  | 837.0  |
| 35°   | 879.1  | 886.9  | 904.0  | 915.7  | 869.0  | 784.8  | 722.4  | 720.1  | 723.2  | 763.0  | 846.4  |
| 37.5° | 932.1  | 946.1  | 960.1  | 989.7  | 949.2  | 859.6  | 777.8  | 747.4  | 741.9  | 785.6  | 851.0  |
| 40°   | 989.7  | 985.9  | 1027.2 | 1062.2 | 1060.7 | 964.8  | 854.9  | 795.7  | 787.9  | 821.4  | 882.2  |
| 42.5° | 1038.1 | 1034.2 | 1080.1 | 1137.8 | 1144.1 | 1066.1 | 943.0  | 864.3  | 857.3  | 876.7  | 920.4  |
| 45°   | 1101.2 | 1104.3 | 1158.9 | 1227.4 | 1250.0 | 1200.2 | 1062.2 | 962.5  | 958.6  | 952.3  | 992.9  |
| 47.5° | 1157.3 | 1174.4 | 1221.2 | 1302.3 | 1384.1 | 1338.9 | 1202.5 | 1105.9 | 1078.6 | 1064.6 | 1105.1 |
| 50°   | 1196.3 | 1211.9 | 1268.7 | 1355.3 | 1504.9 | 1533.7 | 1359.9 | 1258.6 | 1259.4 | 1225.1 | 1246.9 |
| 52.5° | 1196.3 | 1195.5 | 1241.5 | 1355.3 | 1589.1 | 1737.1 | 1570.3 | 1451.1 | 1457.3 | 1421.5 | 1423.1 |
| 55°   | 1080.9 | 1078.6 | 1134.7 | 1255.5 | 1579.7 | 1932.7 | 1889.1 | 1695.0 | 1679.5 | 1610.1 | 1617.1 |
| 57.5° | 870.5  | 876.0  | 918.8  | 1063.8 | 1458.1 | 2023.9 | 2268.6 | 1969.4 | 1916.4 | 1773.0 | 1773.0 |
| 60°   | 635.2  | 630.5  | 662.4  | 763.7  | 1168.2 | 1989.6 | 2580.4 | 2292.8 | 2209.4 | 1907.8 | 1887.5 |
| 62.5° | 483.2  | 482.4  | 491.0  | 525.3  | 741.1  | 1734.8 | 2714.4 | 2704.3 | 2568.7 | 2040.3 | 2011.4 |
| 65°   | 390.4  | 392.0  | 403.7  | 427.9  | 452.8  | 1183.0 | 2643.5 | 3195.2 | 3071.3 | 2237.5 | 2143.2 |
| 67.5° | 318.7  | 322.6  | 336.7  | 388.9  | 383.4  | 612.6  | 2251.5 | 3476.6 | 3500.0 | 2538.3 | 2320.1 |
| 70°   | 245.5  | 251.7  | 268.1  | 342.1  | 369.4  | 407.6  | 1561.0 | 3336.3 | 3398.7 | 2725.3 | 2213.3 |
| 72.5° | 166.8  | 166.0  | 201.1  | 277.4  | 373.3  | 373.3  | 869.0  | 2687.1 | 2746.4 | 2512.6 | 1922.6 |
| 75°   | 90.4   | 95.9   | 133.3  | 209.6  | 342.1  | 360.8  | 494.9  | 1966.2 | 2049.6 | 1953.8 | 1487.0 |
| 77.5° | 49.1   | 49.9   | 74.0   | 137.2  | 284.5  | 344.5  | 330.4  | 1337.3 | 1370.1 | 1178.3 | 814.4  |
| 80°   | 25.7   | 26.5   | 39.0   | 89.6   | 196.4  | 319.5  | 275.1  | 797.3  | 766.1  | 452.0  | 268.9  |
| 82.5° | 11.7   | 12.5   | 19.5   | 56.1   | 125.5  | 251.7  | 237.7  | 385.0  | 355.4  | 126.3  | 81.8   |
| 85°   | 4.7    | 4.7    | 8.6    | 33.5   | 73.3   | 123.9  | 203.4  | 193.3  | 161.3  | 38.2   | 40.5   |
| 87.5° | 1.6    | 1.6    | 2.3    | 13.2   | 29.6   | 74.0   | 108.3  | 102.1  | 70.1   | 14.0   | 21.8   |
| 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°    | 793.4  | 793.4  | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 |
| 2.5°  | 787.1  | 795.7  | 793.4 | 791.8 | 777.0 | 775.4 | 773.9 | 759.8 | 764.5 | 752.8 | 760.6 |
| 5°    | 791.8  | 796.5  | 784.0 | 760.6 | 739.6 | 716.2 | 698.3 | 685.8 | 663.2 | 654.6 | 653.1 |
| 7.5°  | 787.1  | 787.1  | 761.4 | 724.0 | 682.7 | 644.5 | 596.2 | 561.9 | 536.2 | 516.7 | 523.7 |
| 10°   | 780.9  | 771.5  | 745.0 | 678.8 | 604.0 | 546.3 | 476.9 | 426.3 | 388.1 | 375.6 | 367.8 |
| 12.5° | 780.9  | 764.5  | 705.3 | 614.9 | 518.3 | 431.0 | 348.4 | 282.1 | 245.5 | 223.7 | 220.6 |
| 15°   | 773.9  | 749.7  | 676.5 | 554.9 | 434.9 | 316.4 | 222.1 | 165.2 | 134.0 | 125.5 | 122.4 |
| 17.5° | 775.4  | 746.6  | 633.6 | 484.0 | 337.4 | 210.4 | 135.6 | 104.4 | 96.6  | 92.7  | 93.5  |
| 20°   | 778.5  | 746.6  | 595.4 | 414.6 | 243.2 | 130.9 | 93.5  | 88.1  | 84.2  | 82.6  | 83.4  |
| 22.5° | 788.7  | 731.8  | 556.4 | 343.7 | 164.4 | 94.3  | 82.6  | 77.2  | 74.0  | 71.7  | 70.9  |
| 25°   | 790.2  | 729.5  | 519.0 | 273.5 | 113.0 | 79.5  | 72.5  | 66.2  | 62.3  | 59.2  | 58.4  |
| 27.5° | 787.9  | 719.3  | 466.8 | 203.4 | 84.9  | 70.9  | 61.6  | 55.3  | 49.9  | 47.5  | 46.8  |
| 30°   | 796.5  | 700.6  | 422.4 | 146.5 | 71.7  | 61.6  | 52.2  | 45.2  | 40.5  | 37.4  | 37.4  |
| 32.5° | 797.3  | 684.3  | 373.3 | 104.4 | 65.5  | 54.6  | 44.4  | 36.6  | 32.0  | 30.4  | 30.4  |
| 35°   | 798.0  | 669.4  | 318.7 | 79.5  | 58.4  | 46.8  | 36.6  | 30.4  | 27.3  | 24.9  | 24.9  |
| 37.5° | 800.4  | 658.5  | 268.9 | 67.0  | 52.2  | 39.7  | 30.4  | 24.9  | 21.8  | 21.0  | 21.0  |
| 40°   | 805.0  | 643.7  | 216.7 | 59.2  | 45.2  | 33.5  | 25.7  | 21.0  | 17.9  | 17.1  | 16.4  |
| 42.5° | 817.5  | 639.8  | 173.0 | 53.0  | 40.5  | 28.1  | 21.0  | 17.1  | 14.8  | 13.2  | 12.5  |
| 45°   | 869.0  | 650.0  | 134.0 | 49.1  | 34.3  | 23.4  | 17.9  | 14.0  | 10.9  | 10.1  | 9.4   |
| 47.5° | 953.1  | 683.5  | 106.0 | 43.6  | 28.8  | 19.5  | 14.8  | 10.9  | 8.6   | 7.8   | 7.0   |
| 50°   | 1080.9 | 759.8  | 86.5  | 39.0  | 24.2  | 16.4  | 11.7  | 8.6   | 6.2   | 5.5   | 5.5   |
| 52.5° | 1248.5 | 862.7  | 74.8  | 34.3  | 19.5  | 14.0  | 9.4   | 6.2   | 4.7   | 3.9   | 3.9   |
| 55°   | 1419.9 | 984.3  | 70.1  | 29.6  | 16.4  | 11.7  | 7.0   | 4.7   | 3.1   | 2.3   | 2.3   |
| 57.5° | 1577.4 | 1063.0 | 67.8  | 24.2  | 14.0  | 8.6   | 5.5   | 3.1   | 1.6   | 0.8   | 0.8   |
| 60°   | 1675.6 | 1120.7 | 60.8  | 19.5  | 10.9  | 7.0   | 3.9   | 1.6   | 0.8   | 0.0   | 0.0   |
| 62.5° | 1804.9 | 1179.1 | 49.9  | 14.8  | 7.8   | 4.7   | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   |
| 65°   | 1975.6 | 1244.6 | 39.0  | 11.7  | 6.2   | 3.1   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2057.4 | 1210.3 | 26.5  | 8.6   | 3.9   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 1893.8 | 1019.4 | 18.7  | 6.2   | 2.3   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1592.2 | 798.8  | 14.0  | 3.9   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1173.7 | 499.5  | 10.9  | 3.1   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 622.7  | 186.3  | 7.8   | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 183.9  | 54.6   | 5.5   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 60.8   | 16.4   | 3.1   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 31.2   | 6.2    | 1.6   | 1.6   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 17.9   | 2.3    | 1.6   | 1.6   | 0.8   | 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   |

(END OF REPORT)