

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: P675432

Luminaire Tested: **CCW-SA-1A-760-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675432  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-760-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL2 distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

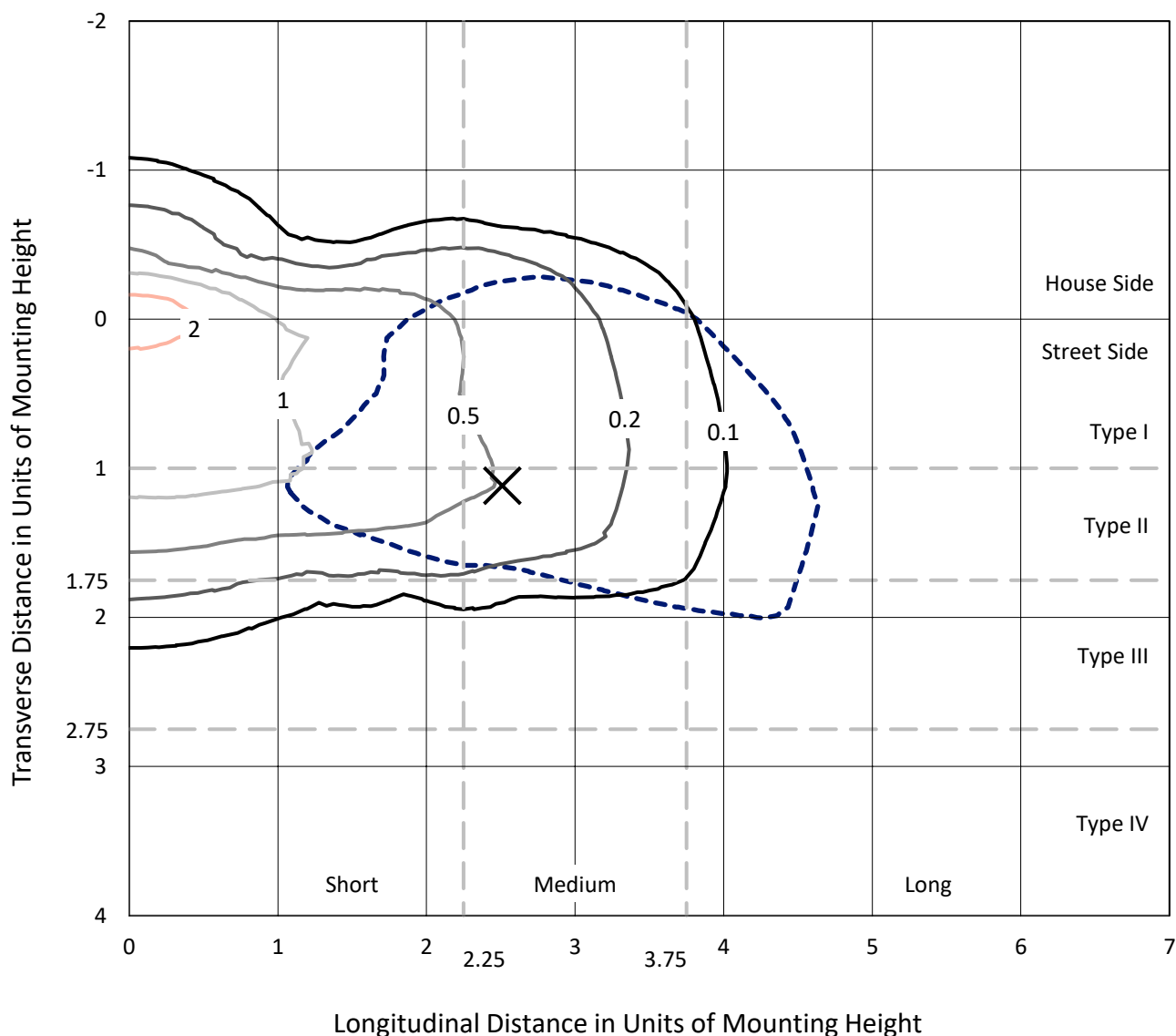
Lumens per Lamp: N/A  
Luminaire Lumens: 2769.6 lumens  
Efficiency: N/A  
Efficacy: 153.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
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

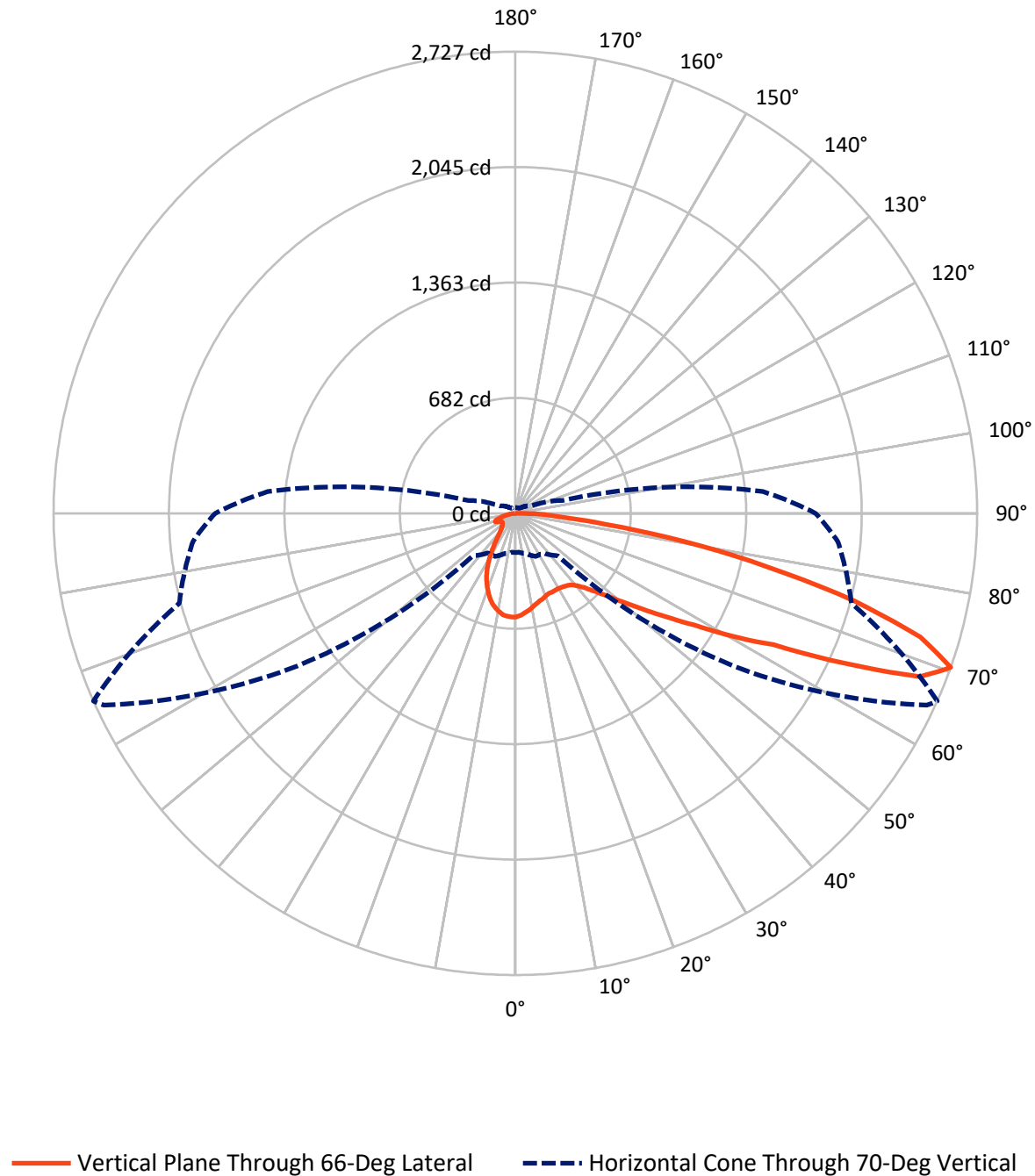
× Max cd  
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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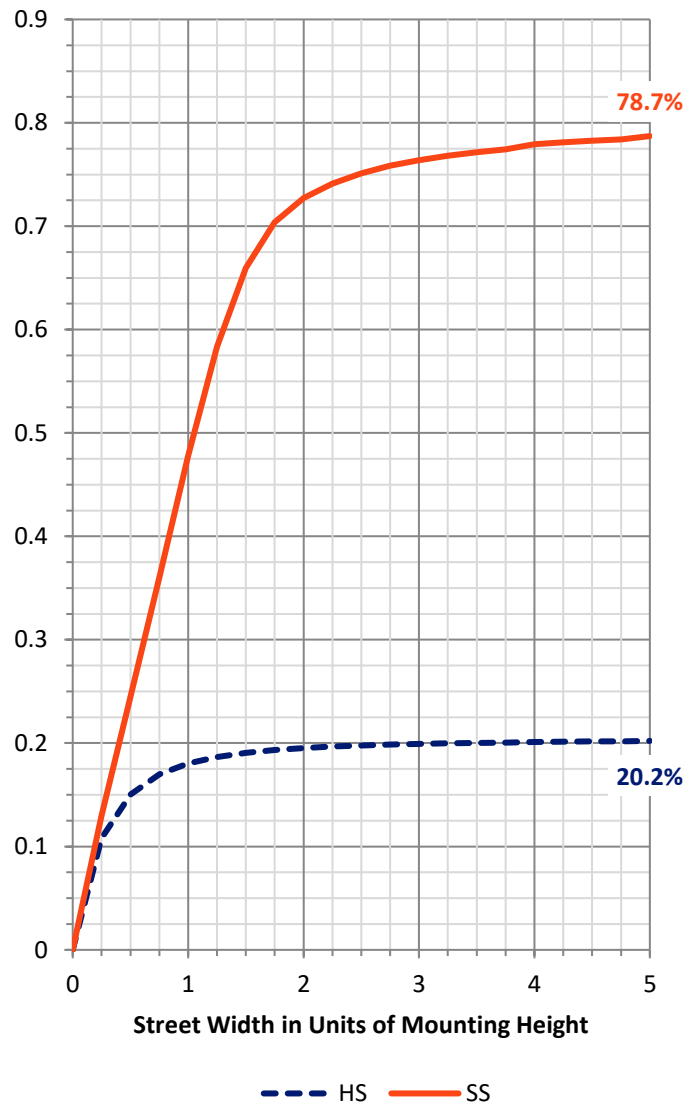
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 566.9    | 0.0    | 566.9  |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 2202.7   | 0.0    | 2202.7 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 2769.6   | 0.0    | 2769.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.1   | 2.0       |
| 10°-20°   | 133.2  | 4.8       |
| 20°-30°   | 182.9  | 6.6       |
| 30°-40°   | 245.3  | 8.9       |
| 40°-50°   | 355.8  | 12.8      |
| 50°-60°   | 540.9  | 19.5      |
| 60°-70°   | 668.0  | 24.1      |
| 70°-80°   | 496.8  | 17.9      |
| 80°-90°   | 92.7   | 3.3       |
| 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°    | 2769.6 | 100.0     |
| 0°-180°   | 2769.6 | 100.0     |

**Coefficient of Utilization**



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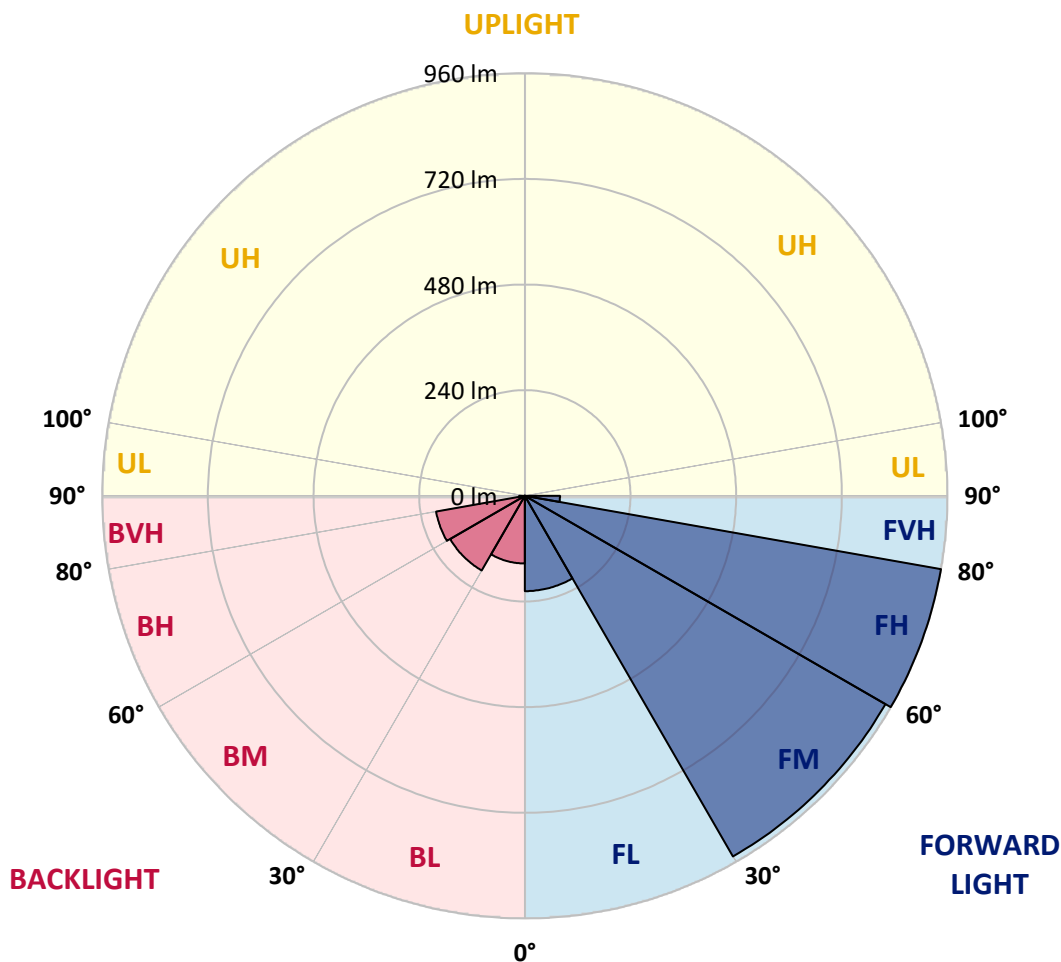
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 216.6  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 946.1  | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 960.1  | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 79.9   | 2.9       |                         |      | G1/100  |
| BL   | (0°-30°)    | 153.6  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 195.8  | 7.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 204.6  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 611.9 | 611.9 | 611.9 | 611.9 | 611.9  | 611.9  | 611.9  | 611.9  | 611.9  | 611.9  | 611.9  |
| 2.5°  | 582.0 | 585.1 | 586.1 | 588.2 | 593.4  | 597.5  | 603.7  | 606.7  | 603.7  | 607.8  | 607.8  |
| 5°    | 541.8 | 537.7 | 548.0 | 552.1 | 558.3  | 566.6  | 581.0  | 592.3  | 589.2  | 601.6  | 611.9  |
| 7.5°  | 507.9 | 507.9 | 510.9 | 520.2 | 527.4  | 539.8  | 555.2  | 572.7  | 577.9  | 594.4  | 609.8  |
| 10°   | 476.9 | 481.1 | 481.1 | 495.5 | 499.6  | 514.0  | 539.8  | 561.4  | 562.4  | 590.3  | 611.9  |
| 12.5° | 460.5 | 458.4 | 468.7 | 472.8 | 485.2  | 499.6  | 520.2  | 547.0  | 548.0  | 577.9  | 607.8  |
| 15°   | 447.1 | 449.1 | 454.3 | 464.6 | 475.9  | 487.2  | 506.8  | 531.5  | 536.7  | 571.7  | 605.7  |
| 17.5° | 448.1 | 449.1 | 449.1 | 456.3 | 465.6  | 479.0  | 497.5  | 526.4  | 529.5  | 563.5  | 602.6  |
| 20°   | 454.3 | 450.2 | 453.3 | 456.3 | 462.5  | 474.9  | 490.3  | 515.1  | 518.2  | 562.4  | 609.8  |
| 22.5° | 467.7 | 464.6 | 463.6 | 462.5 | 461.5  | 468.7  | 488.3  | 508.9  | 512.0  | 557.3  | 612.9  |
| 25°   | 489.3 | 488.3 | 481.1 | 473.9 | 468.7  | 468.7  | 484.2  | 514.0  | 513.0  | 557.3  | 615.0  |
| 27.5° | 515.1 | 515.1 | 514.0 | 500.6 | 485.2  | 476.9  | 487.2  | 512.0  | 510.9  | 557.3  | 620.1  |
| 30°   | 550.1 | 550.1 | 547.0 | 534.6 | 506.8  | 483.1  | 489.3  | 509.9  | 513.0  | 553.2  | 616.0  |
| 32.5° | 588.2 | 587.2 | 590.3 | 578.9 | 550.1  | 512.0  | 501.7  | 514.0  | 517.1  | 557.3  | 617.0  |
| 35°   | 616.0 | 622.2 | 632.5 | 622.2 | 593.4  | 541.8  | 519.2  | 522.3  | 524.3  | 558.3  | 621.2  |
| 37.5° | 647.9 | 655.2 | 669.6 | 677.8 | 646.9  | 587.2  | 547.0  | 535.7  | 535.7  | 571.7  | 622.2  |
| 40°   | 694.3 | 687.1 | 711.8 | 726.2 | 713.9  | 642.8  | 590.3  | 560.4  | 561.4  | 589.2  | 635.6  |
| 42.5° | 728.3 | 735.5 | 761.3 | 787.0 | 771.6  | 710.8  | 637.6  | 600.6  | 600.6  | 615.0  | 656.2  |
| 45°   | 766.4 | 774.7 | 810.7 | 841.6 | 852.9  | 792.2  | 702.5  | 658.2  | 656.2  | 665.5  | 693.3  |
| 47.5° | 808.6 | 820.0 | 861.2 | 897.2 | 927.1  | 876.6  | 786.0  | 728.3  | 727.3  | 734.5  | 755.1  |
| 50°   | 857.1 | 861.2 | 895.2 | 961.1 | 1020.9 | 988.9  | 888.0  | 827.2  | 822.0  | 825.1  | 852.9  |
| 52.5° | 871.5 | 868.4 | 907.5 | 978.6 | 1087.8 | 1125.9 | 1027.0 | 939.5  | 937.4  | 930.2  | 966.3  |
| 55°   | 818.9 | 829.2 | 867.4 | 958.0 | 1142.4 | 1287.7 | 1179.5 | 1093.0 | 1074.4 | 1054.8 | 1098.1 |
| 57.5° | 713.9 | 714.9 | 758.2 | 865.3 | 1100.2 | 1421.6 | 1438.1 | 1243.4 | 1244.4 | 1191.9 | 1241.3 |
| 60°   | 555.2 | 552.1 | 586.1 | 683.0 | 979.6  | 1462.8 | 1720.3 | 1483.4 | 1473.1 | 1328.9 | 1374.2 |
| 62.5° | 400.7 | 394.5 | 401.7 | 458.4 | 732.4  | 1399.9 | 1997.4 | 1752.2 | 1709.0 | 1469.0 | 1504.0 |
| 65°   | 329.6 | 332.7 | 335.8 | 338.9 | 411.0  | 1154.8 | 2082.9 | 2191.1 | 2133.4 | 1632.7 | 1647.2 |
| 67.5° | 273.0 | 275.0 | 288.4 | 307.0 | 304.9  | 681.9  | 1984.0 | 2596.9 | 2575.3 | 1835.7 | 1770.8 |
| 70°   | 231.8 | 230.7 | 246.2 | 280.2 | 285.3  | 354.4  | 1570.9 | 2680.4 | 2726.7 | 2054.1 | 1910.9 |
| 72.5° | 185.4 | 187.5 | 200.9 | 246.2 | 280.2  | 298.7  | 904.4  | 2501.1 | 2500.1 | 2222.0 | 1835.7 |
| 75°   | 132.9 | 132.9 | 151.4 | 204.0 | 270.9  | 295.6  | 500.6  | 2030.4 | 2068.5 | 2088.1 | 1592.6 |
| 77.5° | 87.6  | 91.7  | 106.1 | 152.5 | 254.4  | 289.5  | 317.3  | 1476.2 | 1523.6 | 1561.7 | 1218.6 |
| 80°   | 59.7  | 61.8  | 71.1  | 106.1 | 215.3  | 291.5  | 259.6  | 993.0  | 1011.6 | 862.2  | 494.5  |
| 82.5° | 36.1  | 37.1  | 47.4  | 74.2  | 154.5  | 277.1  | 244.1  | 548.0  | 536.7  | 260.6  | 142.2  |
| 85°   | 19.6  | 20.6  | 29.9  | 49.4  | 102.0  | 242.1  | 240.0  | 268.9  | 250.3  | 95.8   | 59.7   |
| 87.5° | 7.2   | 7.2   | 13.4  | 24.7  | 58.7   | 165.8  | 209.1  | 159.7  | 149.4  | 48.4   | 27.8   |
| 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°    | 611.9  | 611.9  | 611.9 | 611.9 | 611.9 | 611.9 | 611.9 | 611.9 | 611.9 | 611.9 | 611.9 |
| 2.5°  | 612.9  | 612.9  | 612.9 | 612.9 | 611.9 | 607.8 | 610.9 | 609.8 | 603.7 | 604.7 | 600.6 |
| 5°    | 610.9  | 616.0  | 612.9 | 608.8 | 603.7 | 591.3 | 587.2 | 584.1 | 575.8 | 572.7 | 575.8 |
| 7.5°  | 616.0  | 611.9  | 609.8 | 602.6 | 582.0 | 570.7 | 556.3 | 538.8 | 526.4 | 523.3 | 526.4 |
| 10°   | 615.0  | 615.0  | 605.7 | 585.1 | 565.5 | 532.6 | 514.0 | 483.1 | 465.6 | 460.5 | 461.5 |
| 12.5° | 610.9  | 614.0  | 599.5 | 566.6 | 529.5 | 489.3 | 455.3 | 422.4 | 391.4 | 379.1 | 377.0 |
| 15°   | 615.0  | 611.9  | 586.1 | 543.9 | 492.4 | 436.8 | 387.3 | 338.9 | 310.1 | 291.5 | 287.4 |
| 17.5° | 608.8  | 605.7  | 568.6 | 513.0 | 444.0 | 372.9 | 311.1 | 258.6 | 229.7 | 222.5 | 222.5 |
| 20°   | 616.0  | 596.4  | 548.0 | 475.9 | 393.5 | 302.9 | 232.8 | 193.7 | 186.5 | 186.5 | 188.5 |
| 22.5° | 615.0  | 594.4  | 530.5 | 439.9 | 332.7 | 228.7 | 173.1 | 161.7 | 162.8 | 171.0 | 170.0 |
| 25°   | 608.8  | 590.3  | 505.8 | 399.7 | 268.9 | 172.0 | 143.2 | 140.1 | 147.3 | 156.6 | 155.5 |
| 27.5° | 607.8  | 578.9  | 483.1 | 352.3 | 205.0 | 136.0 | 124.6 | 124.6 | 131.9 | 140.1 | 139.1 |
| 30°   | 601.6  | 569.7  | 455.3 | 298.7 | 154.5 | 118.5 | 114.3 | 114.3 | 117.4 | 121.6 | 121.6 |
| 32.5° | 600.6  | 557.3  | 424.4 | 243.1 | 123.6 | 107.1 | 105.1 | 106.1 | 106.1 | 108.2 | 107.1 |
| 35°   | 592.3  | 540.8  | 392.5 | 188.5 | 107.1 | 101.0 | 98.9  | 97.9  | 97.9  | 96.8  | 96.8  |
| 37.5° | 589.2  | 530.5  | 359.5 | 146.3 | 99.9  | 95.8  | 93.7  | 90.7  | 89.6  | 89.6  | 88.6  |
| 40°   | 592.3  | 520.2  | 327.6 | 118.5 | 93.7  | 91.7  | 88.6  | 84.5  | 83.4  | 83.4  | 83.4  |
| 42.5° | 603.7  | 519.2  | 294.6 | 103.0 | 90.7  | 87.6  | 83.4  | 79.3  | 78.3  | 79.3  | 78.3  |
| 45°   | 629.4  | 527.4  | 262.7 | 95.8  | 86.5  | 83.4  | 78.3  | 75.2  | 74.2  | 75.2  | 75.2  |
| 47.5° | 671.6  | 550.1  | 233.8 | 91.7  | 83.4  | 79.3  | 74.2  | 71.1  | 71.1  | 71.1  | 71.1  |
| 50°   | 741.7  | 593.4  | 206.0 | 88.6  | 81.4  | 76.2  | 71.1  | 67.0  | 65.9  | 65.9  | 67.0  |
| 52.5° | 846.8  | 667.5  | 183.4 | 86.5  | 78.3  | 72.1  | 67.0  | 63.9  | 61.8  | 60.8  | 61.8  |
| 55°   | 973.5  | 775.7  | 176.2 | 84.5  | 74.2  | 69.0  | 63.9  | 59.7  | 57.7  | 57.7  | 56.7  |
| 57.5° | 1109.4 | 895.2  | 188.5 | 82.4  | 71.1  | 64.9  | 59.7  | 55.6  | 53.6  | 52.5  | 52.5  |
| 60°   | 1256.7 | 1036.3 | 233.8 | 81.4  | 68.0  | 60.8  | 55.6  | 52.5  | 49.4  | 48.4  | 48.4  |
| 62.5° | 1390.7 | 1164.0 | 315.2 | 80.3  | 65.9  | 56.7  | 51.5  | 47.4  | 45.3  | 44.3  | 44.3  |
| 65°   | 1543.1 | 1306.2 | 394.5 | 84.5  | 64.9  | 53.6  | 47.4  | 43.3  | 41.2  | 40.2  | 40.2  |
| 67.5° | 1676.0 | 1429.8 | 440.9 | 94.8  | 68.0  | 49.4  | 42.2  | 39.1  | 38.1  | 37.1  | 37.1  |
| 70°   | 1772.8 | 1467.9 | 295.6 | 104.0 | 73.1  | 46.4  | 38.1  | 36.1  | 34.0  | 34.0  | 34.0  |
| 72.5° | 1643.0 | 1310.3 | 175.1 | 97.9  | 69.0  | 43.3  | 34.0  | 31.9  | 30.9  | 30.9  | 29.9  |
| 75°   | 1405.1 | 1115.6 | 134.9 | 79.3  | 55.6  | 37.1  | 29.9  | 27.8  | 26.8  | 26.8  | 25.8  |
| 77.5° | 1037.3 | 799.4  | 99.9  | 62.8  | 43.3  | 29.9  | 25.8  | 24.7  | 23.7  | 22.7  | 22.7  |
| 80°   | 405.9  | 350.2  | 68.0  | 46.4  | 31.9  | 23.7  | 21.6  | 20.6  | 19.6  | 18.5  | 18.5  |
| 82.5° | 125.7  | 106.1  | 39.1  | 30.9  | 22.7  | 18.5  | 17.5  | 16.5  | 15.5  | 14.4  | 14.4  |
| 85°   | 54.6   | 52.5   | 25.8  | 19.6  | 15.5  | 12.4  | 12.4  | 11.3  | 10.3  | 9.3   | 9.3   |
| 87.5° | 26.8   | 25.8   | 14.4  | 9.3   | 8.2   | 6.2   | 6.2   | 5.2   | 4.1   | 4.1   | 4.1   |
| 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)