

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: P671492

Luminaire Tested: **CCP-SA-1C-722-U-SL4**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671492  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-722-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ SL4  
distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3263.5 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

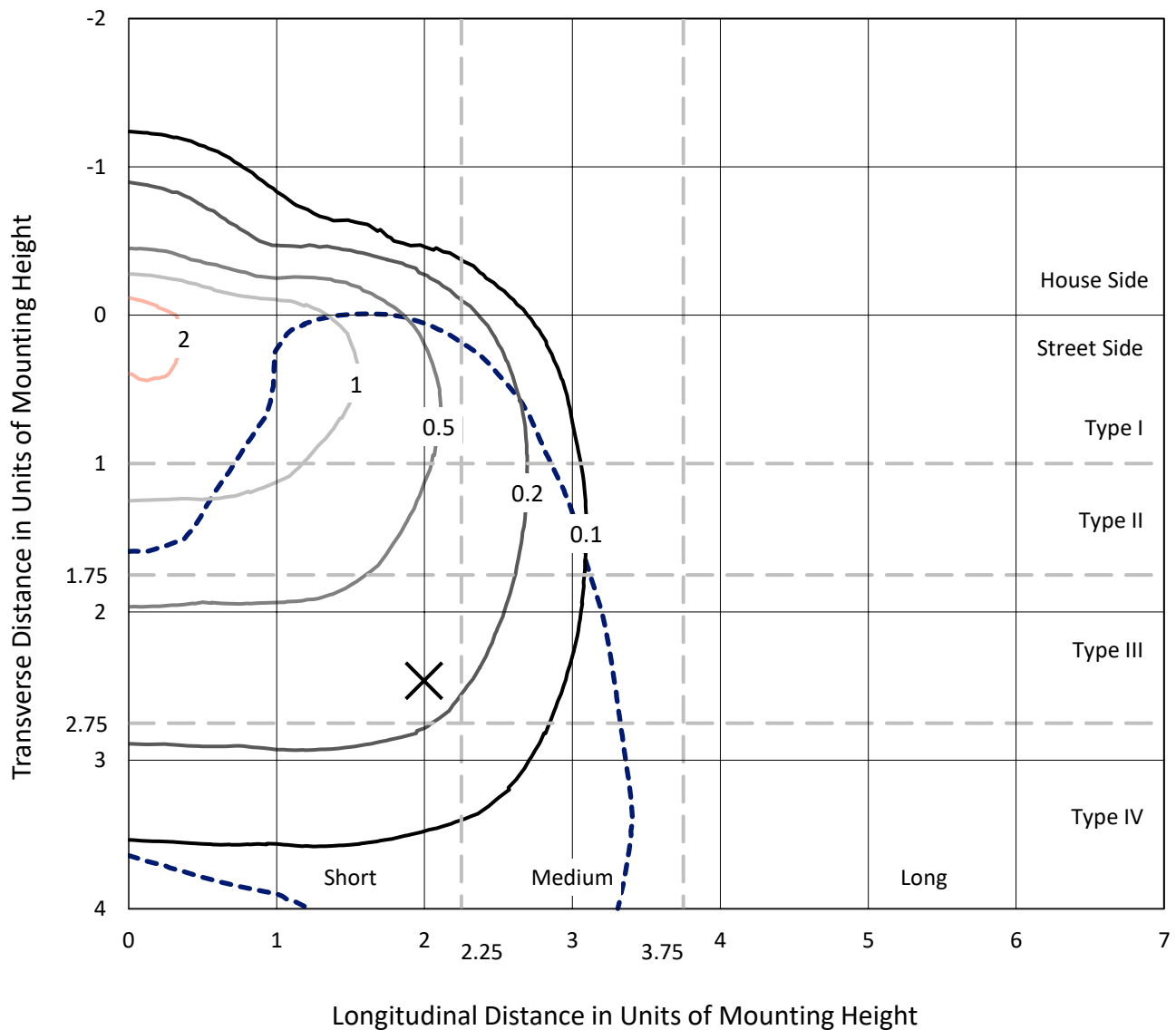
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

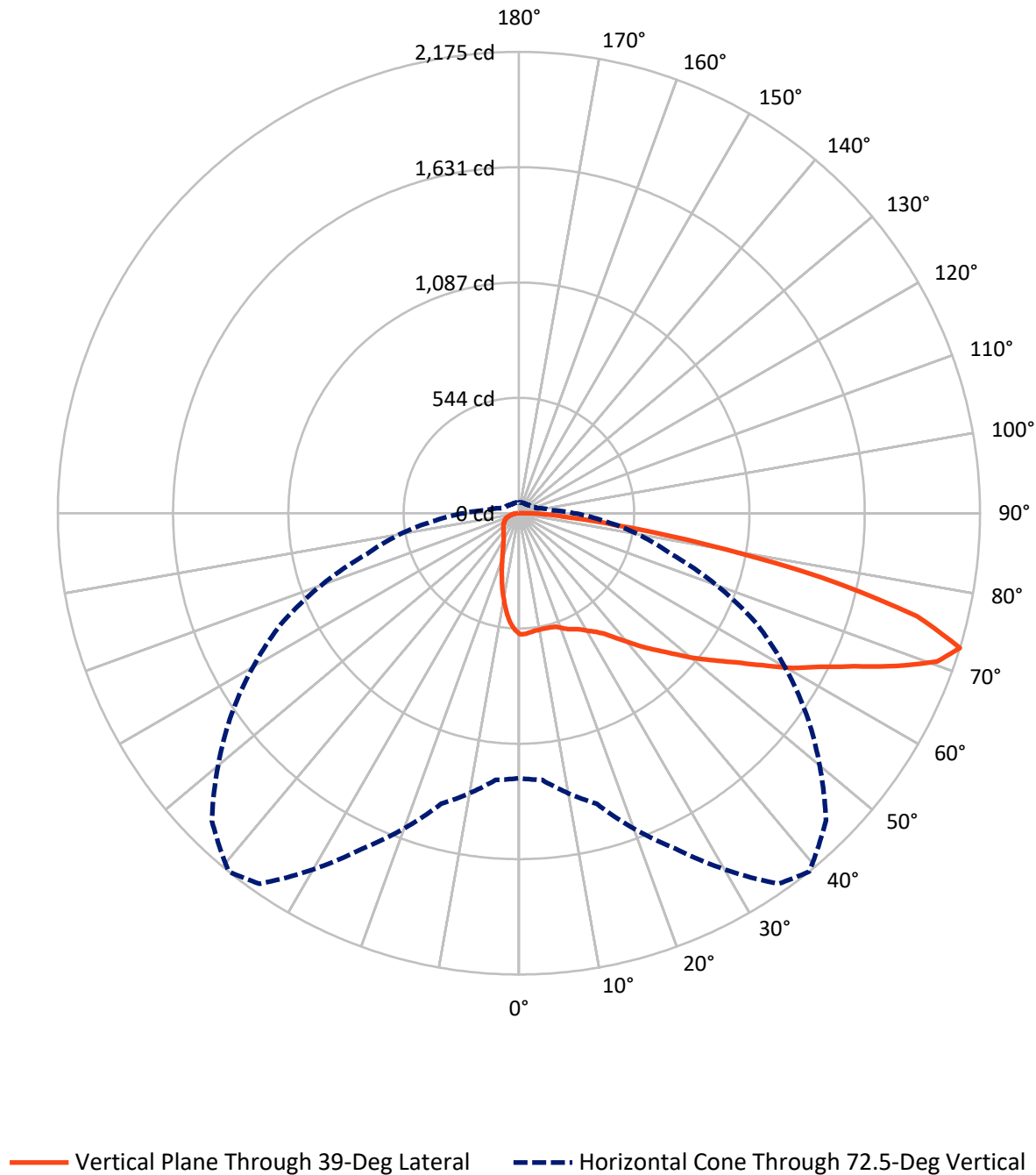


Based on 15 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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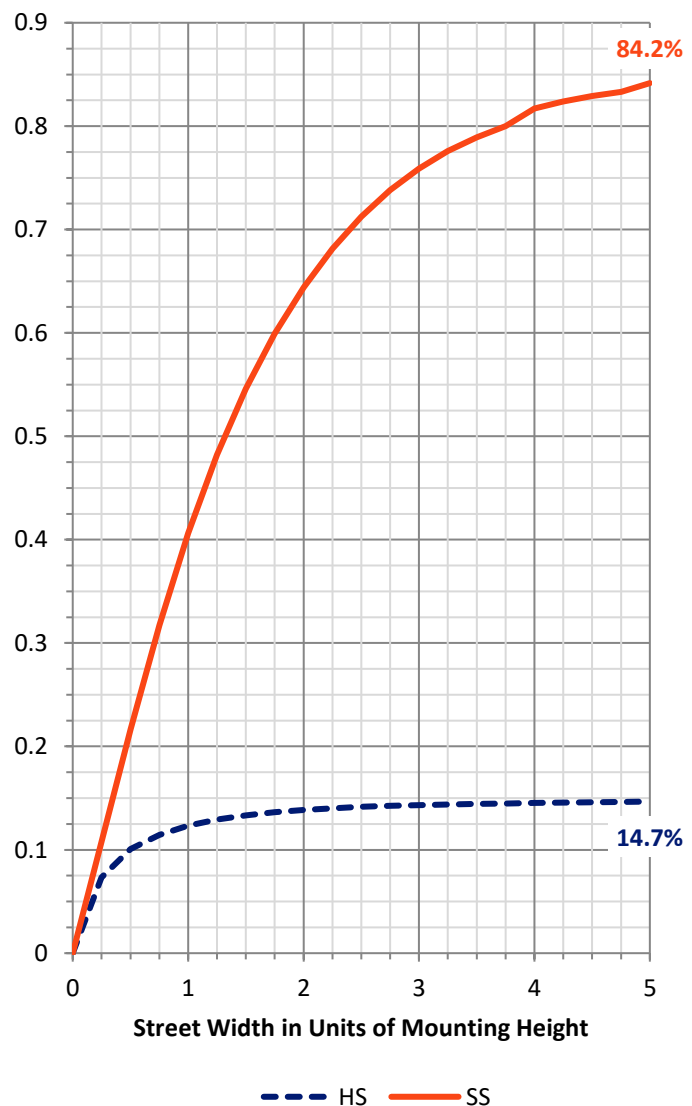
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 485.0    | 0.0    | 485.0  |
|                    | % Fixture | 14.9     | 0.0    | 14.9   |
| <b>Street Side</b> | Lumens    | 2778.5   | 0.0    | 2778.5 |
|                    | % Fixture | 85.1     | 0.0    | 85.1   |
| <b>Total</b>       | Lumens    | 3263.5   | 0.0    | 3263.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.5   | 1.5       |
| 10°-20°   | 128.8  | 3.9       |
| 20°-30°   | 196.3  | 6.0       |
| 30°-40°   | 287.1  | 8.8       |
| 40°-50°   | 439.6  | 13.5      |
| 50°-60°   | 644.7  | 19.8      |
| 60°-70°   | 822.2  | 25.2      |
| 70°-80°   | 594.1  | 18.2      |
| 80°-90°   | 100.2  | 3.1       |
| 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°    | 3263.5 | 100.0     |
| 0°-180°   | 3263.5 | 100.0     |

**Coefficient of Utilization**



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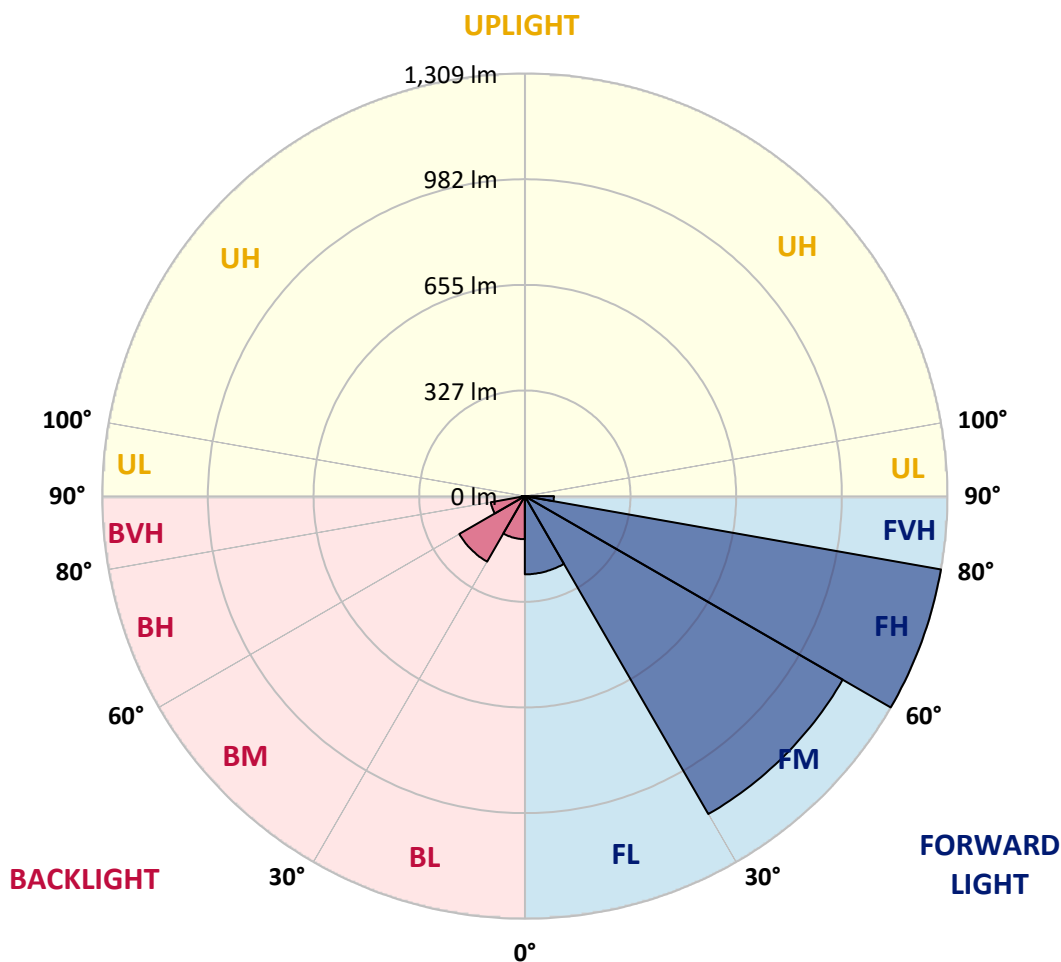
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 242.2  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1137.1 | 34.8      |                         |      |         |
| FH   | (60°-80°)   | 1309.1 | 40.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 90.1   | 2.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 133.4  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 234.3  | 7.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 107.2  | 3.3       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 10.2   | 0.3       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  | 571.3  |
| 2.5°  | 579.8  | 581.1  | 578.6  | 576.2  | 574.9  | 570.0  | 574.9  | 572.5  | 570.0  | 570.0  | 570.0  |
| 5°    | 572.5  | 573.7  | 573.7  | 571.3  | 572.5  | 563.9  | 562.7  | 563.9  | 560.2  | 557.8  | 556.5  |
| 7.5°  | 561.4  | 563.9  | 568.8  | 567.6  | 562.7  | 559.0  | 560.2  | 559.0  | 552.9  | 549.2  | 539.4  |
| 10°   | 552.9  | 555.3  | 557.8  | 560.2  | 559.0  | 557.8  | 556.5  | 551.6  | 550.4  | 541.8  | 532.0  |
| 12.5° | 544.3  | 544.3  | 545.5  | 555.3  | 556.5  | 556.5  | 549.2  | 549.2  | 545.5  | 544.3  | 529.6  |
| 15°   | 535.7  | 539.4  | 549.2  | 551.6  | 556.5  | 559.0  | 555.3  | 555.3  | 549.2  | 540.6  | 529.6  |
| 17.5° | 538.2  | 544.3  | 554.1  | 560.2  | 562.7  | 562.7  | 567.6  | 563.9  | 555.3  | 550.4  | 539.4  |
| 20°   | 550.4  | 551.6  | 563.9  | 574.9  | 577.4  | 577.4  | 572.5  | 568.8  | 562.7  | 554.1  | 539.4  |
| 22.5° | 557.8  | 566.4  | 581.1  | 587.2  | 594.5  | 594.5  | 588.4  | 579.8  | 571.3  | 562.7  | 546.7  |
| 25°   | 589.6  | 590.9  | 597.0  | 606.8  | 610.5  | 605.6  | 599.5  | 589.6  | 578.6  | 570.0  | 555.3  |
| 27.5° | 611.7  | 617.8  | 625.2  | 630.1  | 624.0  | 620.3  | 615.4  | 604.4  | 595.8  | 588.4  | 567.6  |
| 30°   | 652.2  | 644.8  | 649.7  | 652.2  | 641.1  | 643.6  | 630.1  | 620.3  | 610.5  | 610.5  | 587.2  |
| 32.5° | 676.7  | 682.8  | 677.9  | 676.7  | 668.1  | 666.9  | 658.3  | 647.3  | 641.1  | 648.5  | 616.6  |
| 35°   | 719.6  | 715.9  | 715.9  | 714.7  | 704.9  | 698.7  | 698.7  | 679.1  | 685.3  | 701.2  | 662.0  |
| 37.5° | 741.7  | 740.4  | 747.8  | 753.9  | 744.1  | 747.8  | 744.1  | 735.5  | 738.0  | 766.2  | 718.4  |
| 40°   | 763.7  | 772.3  | 787.0  | 789.5  | 795.6  | 800.5  | 798.0  | 796.8  | 806.6  | 852.0  | 794.4  |
| 42.5° | 784.6  | 791.9  | 814.0  | 833.6  | 848.3  | 864.2  | 865.5  | 865.5  | 897.3  | 962.3  | 886.3  |
| 45°   | 811.5  | 817.7  | 848.3  | 887.5  | 912.0  | 923.1  | 932.9  | 943.9  | 986.8  | 1064.1 | 984.4  |
| 47.5° | 848.3  | 853.2  | 890.0  | 939.0  | 986.8  | 993.0  | 1012.6 | 1024.8 | 1089.8 | 1168.3 | 1084.9 |
| 50°   | 901.0  | 897.3  | 926.8  | 997.9  | 1044.4 | 1073.9 | 1102.1 | 1124.1 | 1187.9 | 1273.7 | 1163.4 |
| 52.5° | 943.9  | 943.9  | 966.0  | 1060.4 | 1124.1 | 1152.3 | 1181.7 | 1212.4 | 1285.9 | 1379.1 | 1227.1 |
| 55°   | 1017.5 | 1010.1 | 1023.6 | 1121.7 | 1213.6 | 1240.6 | 1297.0 | 1322.7 | 1393.8 | 1457.6 | 1281.0 |
| 57.5° | 1067.7 | 1071.4 | 1087.3 | 1202.6 | 1319.0 | 1352.1 | 1408.5 | 1426.9 | 1489.4 | 1539.7 | 1320.3 |
| 60°   | 1133.9 | 1121.7 | 1156.0 | 1292.1 | 1435.5 | 1482.1 | 1528.7 | 1539.7 | 1586.3 | 1592.4 | 1338.6 |
| 62.5° | 1197.7 | 1195.2 | 1224.6 | 1381.6 | 1560.5 | 1593.6 | 1641.4 | 1653.7 | 1673.3 | 1634.1 | 1312.9 |
| 65°   | 1236.9 | 1252.8 | 1308.0 | 1479.6 | 1702.7 | 1739.5 | 1787.3 | 1762.8 | 1740.7 | 1597.3 | 1186.6 |
| 67.5° | 1290.8 | 1298.2 | 1382.8 | 1586.3 | 1867.0 | 1922.2 | 1963.8 | 1867.0 | 1702.7 | 1446.5 | 999.1  |
| 70°   | 1303.1 | 1322.7 | 1433.0 | 1697.8 | 2036.2 | 2092.6 | 2095.0 | 1831.4 | 1564.2 | 1176.8 | 724.5  |
| 72.5° | 1249.2 | 1262.6 | 1418.3 | 1744.4 | 2133.0 | 2174.7 | 2048.4 | 1656.2 | 1239.4 | 741.7  | 394.7  |
| 75°   | 1050.6 | 1088.6 | 1234.5 | 1601.0 | 1955.3 | 1939.3 | 1735.8 | 1263.9 | 744.1  | 328.5  | 166.7  |
| 77.5° | 731.8  | 733.1  | 885.1  | 1164.6 | 1463.7 | 1460.0 | 1238.1 | 733.1  | 318.7  | 132.4  | 98.1   |
| 80°   | 324.9  | 348.1  | 440.1  | 627.6  | 888.8  | 888.8  | 722.0  | 364.1  | 159.4  | 85.8   | 67.4   |
| 82.5° | 191.2  | 198.6  | 235.4  | 293.0  | 432.7  | 456.0  | 345.7  | 242.7  | 109.1  | 53.9   | 41.7   |
| 85°   | 141.0  | 153.2  | 175.3  | 176.5  | 204.7  | 208.4  | 191.2  | 210.8  | 74.8   | 29.4   | 34.3   |
| 87.5° | 105.4  | 112.8  | 139.7  | 116.5  | 109.1  | 103.0  | 117.7  | 215.8  | 28.2   | 14.7   | 11.0   |
| 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°    | 571.3  | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 | 571.3 |
| 2.5°  | 565.1  | 565.1 | 562.7 | 557.8 | 557.8 | 548.0 | 550.4 | 552.9 | 546.7 | 546.7 | 548.0 |
| 5°    | 556.5  | 551.6 | 545.5 | 538.2 | 533.3 | 519.8 | 517.3 | 508.7 | 507.5 | 505.1 | 501.4 |
| 7.5°  | 539.4  | 532.0 | 521.0 | 510.0 | 494.0 | 481.8 | 467.1 | 454.8 | 449.9 | 446.2 | 445.0 |
| 10°   | 523.4  | 522.2 | 503.8 | 481.8 | 457.2 | 434.0 | 411.9 | 396.0 | 386.1 | 380.0 | 378.8 |
| 12.5° | 523.4  | 513.6 | 487.9 | 457.2 | 421.7 | 387.4 | 359.2 | 337.1 | 323.6 | 313.8 | 310.1 |
| 15°   | 521.0  | 511.2 | 476.9 | 430.3 | 389.8 | 343.2 | 304.0 | 280.7 | 261.1 | 251.3 | 252.5 |
| 17.5° | 523.4  | 508.7 | 460.9 | 410.7 | 354.3 | 304.0 | 257.4 | 229.2 | 209.6 | 202.3 | 201.0 |
| 20°   | 524.7  | 506.3 | 448.7 | 383.7 | 317.5 | 261.1 | 217.0 | 190.0 | 175.3 | 170.4 | 170.4 |
| 22.5° | 522.2  | 498.9 | 430.3 | 351.8 | 285.6 | 225.6 | 188.8 | 165.5 | 155.7 | 149.6 | 152.0 |
| 25°   | 533.3  | 497.7 | 413.1 | 324.9 | 248.9 | 196.1 | 167.9 | 150.8 | 144.7 | 141.0 | 142.2 |
| 27.5° | 535.7  | 497.7 | 399.6 | 294.2 | 217.0 | 174.1 | 152.0 | 141.0 | 136.1 | 133.6 | 132.4 |
| 30°   | 545.5  | 500.2 | 383.7 | 263.6 | 191.2 | 156.9 | 139.7 | 133.6 | 129.9 | 128.7 | 128.7 |
| 32.5° | 572.5  | 507.5 | 366.5 | 237.8 | 169.2 | 142.2 | 131.2 | 126.3 | 123.8 | 122.6 | 123.8 |
| 35°   | 604.4  | 527.1 | 348.1 | 210.8 | 153.2 | 132.4 | 123.8 | 120.1 | 118.9 | 118.9 | 118.9 |
| 37.5° | 653.4  | 556.5 | 332.2 | 188.8 | 139.7 | 122.6 | 116.5 | 115.2 | 114.0 | 115.2 | 115.2 |
| 40°   | 709.8  | 588.4 | 317.5 | 171.6 | 129.9 | 116.5 | 110.3 | 110.3 | 109.1 | 110.3 | 111.6 |
| 42.5° | 774.7  | 627.6 | 302.8 | 154.5 | 121.4 | 111.6 | 106.7 | 105.4 | 104.2 | 106.7 | 107.9 |
| 45°   | 864.2  | 681.6 | 293.0 | 144.7 | 115.2 | 106.7 | 101.7 | 101.7 | 100.5 | 100.5 | 103.0 |
| 47.5° | 939.0  | 733.1 | 293.0 | 134.8 | 111.6 | 103.0 | 98.1  | 98.1  | 95.6  | 96.8  | 96.8  |
| 50°   | 1001.5 | 777.2 | 299.1 | 132.4 | 106.7 | 99.3  | 95.6  | 93.2  | 91.9  | 91.9  | 91.9  |
| 52.5° | 1043.2 | 804.2 | 304.0 | 129.9 | 104.2 | 94.4  | 91.9  | 90.7  | 88.3  | 87.0  | 88.3  |
| 55°   | 1084.9 | 822.6 | 305.2 | 129.9 | 100.5 | 89.5  | 87.0  | 87.0  | 84.6  | 83.4  | 83.4  |
| 57.5° | 1100.8 | 815.2 | 288.1 | 127.5 | 98.1  | 85.8  | 83.4  | 82.1  | 80.9  | 79.7  | 79.7  |
| 60°   | 1093.5 | 788.2 | 250.1 | 121.4 | 95.6  | 83.4  | 78.5  | 78.5  | 78.5  | 76.0  | 77.2  |
| 62.5° | 1043.2 | 696.3 | 201.0 | 111.6 | 91.9  | 78.5  | 73.6  | 76.0  | 76.0  | 74.8  | 74.8  |
| 65°   | 910.8  | 574.9 | 163.0 | 103.0 | 87.0  | 74.8  | 69.9  | 73.6  | 74.8  | 73.6  | 72.3  |
| 67.5° | 728.2  | 442.5 | 134.8 | 93.2  | 80.9  | 68.6  | 65.0  | 68.6  | 69.9  | 68.6  | 68.6  |
| 70°   | 500.2  | 285.6 | 109.1 | 83.4  | 72.3  | 62.5  | 58.8  | 61.3  | 61.3  | 62.5  | 62.5  |
| 72.5° | 258.7  | 154.5 | 89.5  | 71.1  | 62.5  | 56.4  | 52.7  | 52.7  | 51.5  | 51.5  | 51.5  |
| 75°   | 128.7  | 105.4 | 74.8  | 60.1  | 52.7  | 47.8  | 45.4  | 42.9  | 42.9  | 42.9  | 42.9  |
| 77.5° | 89.5   | 80.9  | 61.3  | 47.8  | 42.9  | 39.2  | 39.2  | 35.6  | 35.6  | 35.6  | 35.6  |
| 80°   | 67.4   | 63.7  | 46.6  | 36.8  | 33.1  | 30.6  | 30.6  | 29.4  | 29.4  | 28.2  | 28.2  |
| 82.5° | 47.8   | 51.5  | 35.6  | 27.0  | 24.5  | 23.3  | 23.3  | 22.1  | 22.1  | 19.6  | 19.6  |
| 85°   | 38.0   | 42.9  | 27.0  | 19.6  | 18.4  | 15.9  | 15.9  | 14.7  | 14.7  | 13.5  | 12.3  |
| 87.5° | 11.0   | 23.3  | 11.0  | 7.4   | 7.4   | 7.4   | 7.4   | 6.1   | 6.1   | 4.9   | 4.9   |
| 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)