

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: P674796

Luminaire Tested: **CCW-SA-2A-722-U-T2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P674796  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-722-U-T2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
T2 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4020.3 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

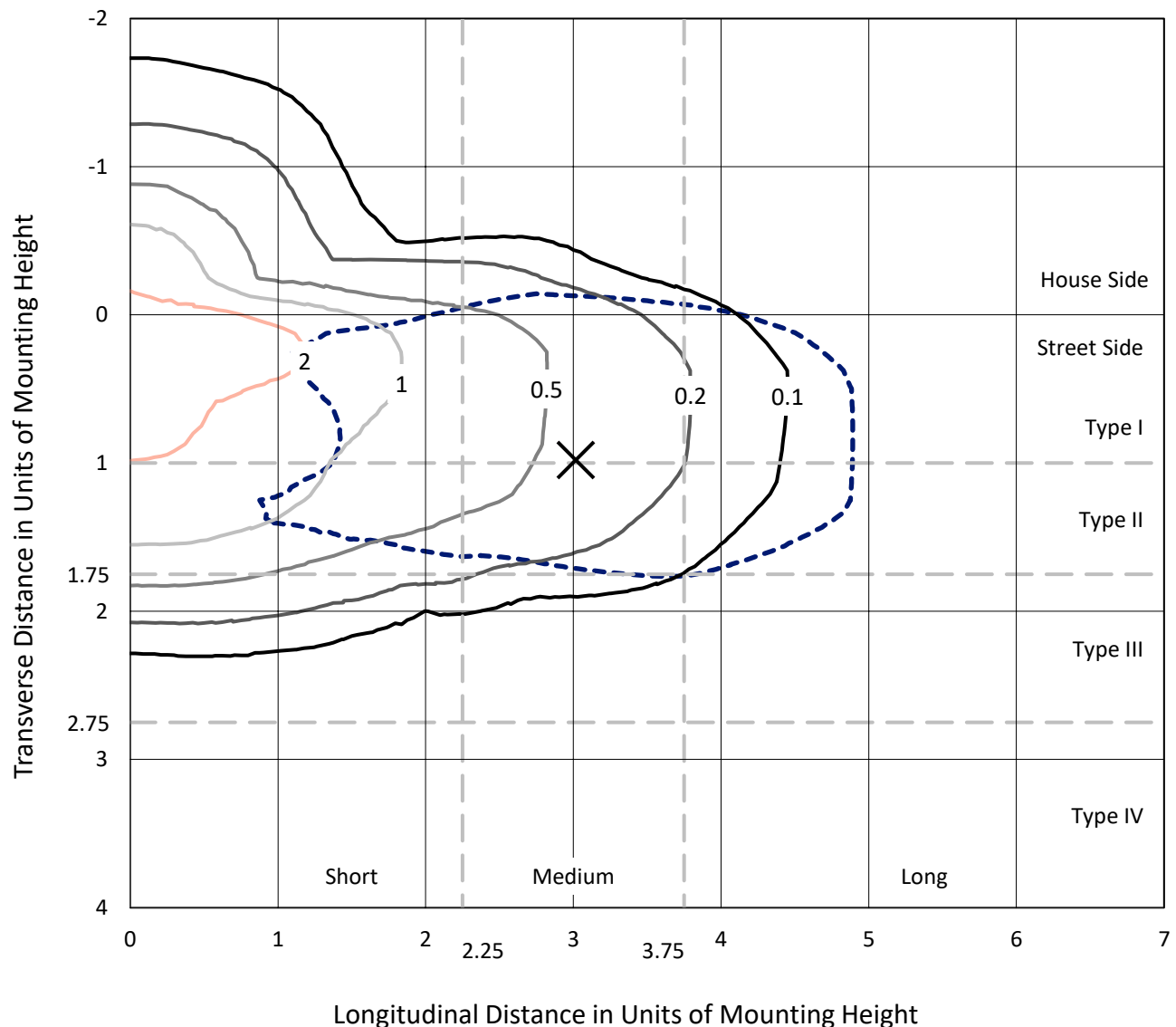
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

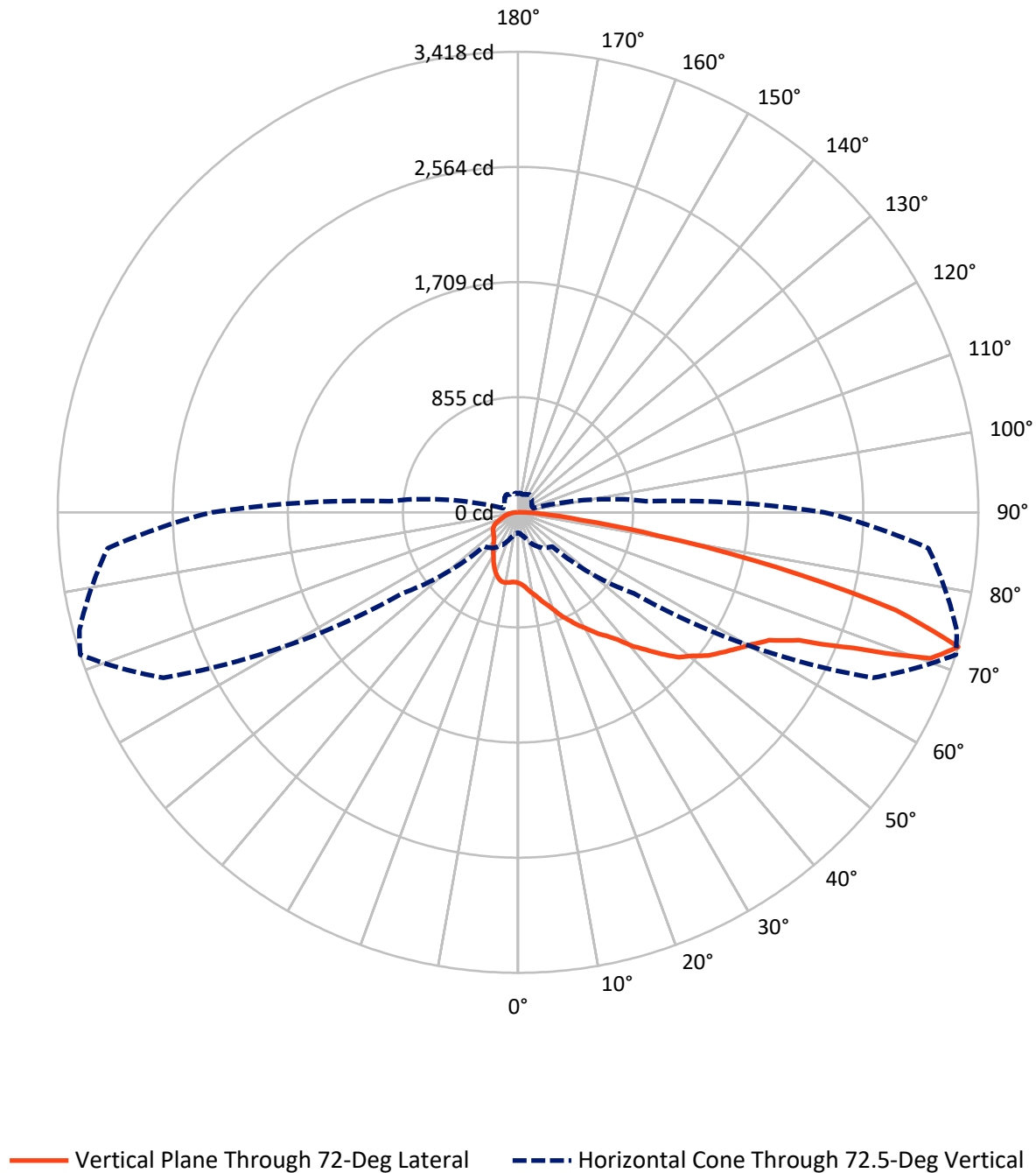


Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 846.1    | 0.0    | 846.1  |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 3174.2   | 0.0    | 3174.2 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 4020.3   | 0.0    | 4020.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.9   | 1.3       |
| 10°-20°   | 161.3  | 4.0       |
| 20°-30°   | 279.2  | 6.9       |
| 30°-40°   | 412.4  | 10.3      |
| 40°-50°   | 613.2  | 15.3      |
| 50°-60°   | 840.7  | 20.9      |
| 60°-70°   | 911.9  | 22.7      |
| 70°-80°   | 642.9  | 16.0      |
| 80°-90°   | 106.8  | 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°    | 4020.3 | 100.0     |
| 0°-180°   | 4020.3 | 100.0     |

**Coefficient of Utilization**



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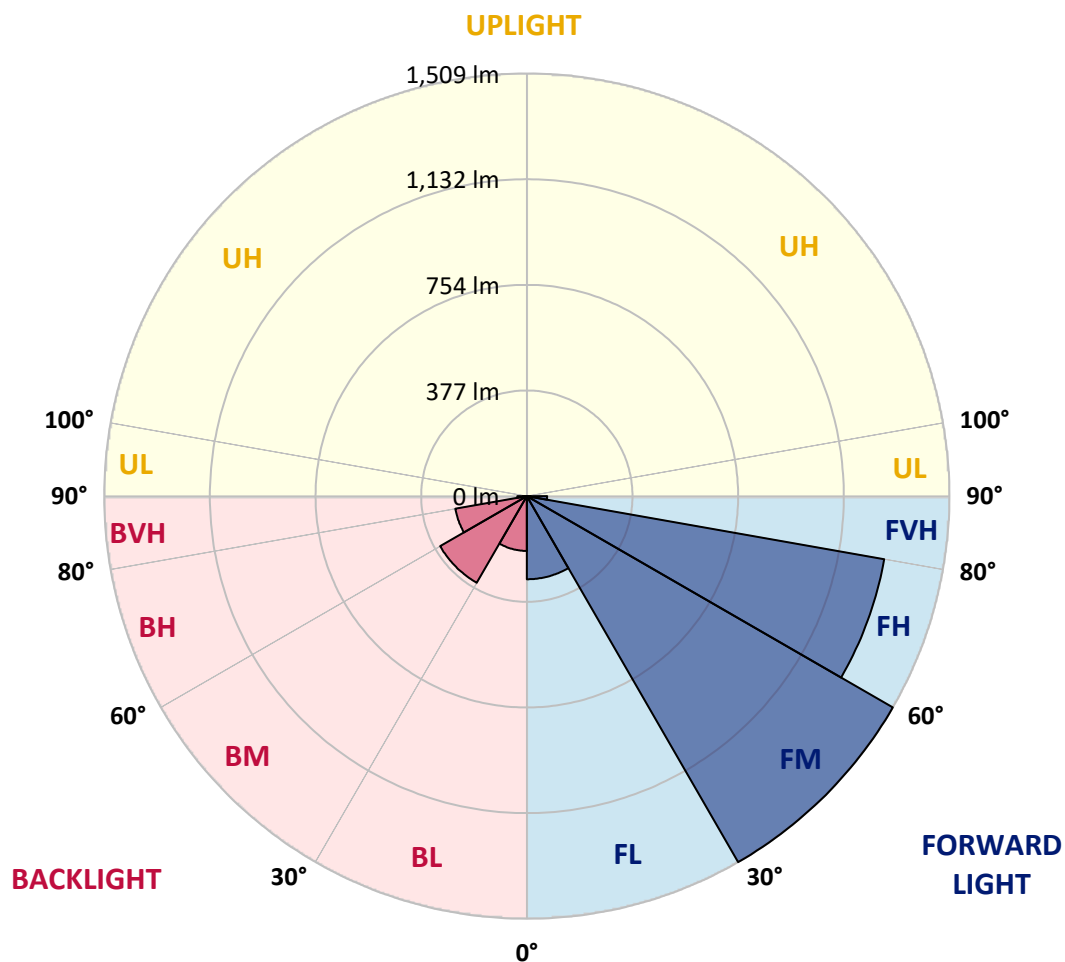
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 296.9  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1508.9 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1295.6 | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 72.8   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 195.6  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 357.4  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 259.2  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 34.0   | 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-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  | 525.2  |
| 2.5°  | 566.7  | 566.7  | 562.3  | 560.8  | 560.8  | 548.9  | 550.4  | 543.0  | 537.0  | 537.0  | 531.1  |
| 5°    | 596.4  | 593.4  | 593.4  | 593.4  | 586.0  | 581.5  | 580.1  | 566.7  | 556.3  | 557.8  | 540.0  |
| 7.5°  | 603.8  | 605.3  | 606.8  | 614.2  | 609.7  | 612.7  | 609.7  | 594.9  | 587.5  | 580.1  | 563.7  |
| 10°   | 608.2  | 611.2  | 611.2  | 621.6  | 621.6  | 629.0  | 633.5  | 627.5  | 614.2  | 606.8  | 580.1  |
| 12.5° | 618.6  | 614.2  | 620.1  | 627.5  | 635.0  | 648.3  | 661.7  | 655.7  | 646.8  | 637.9  | 608.2  |
| 15°   | 618.6  | 620.1  | 624.6  | 636.4  | 648.3  | 661.7  | 685.4  | 694.3  | 689.8  | 673.5  | 642.4  |
| 17.5° | 600.8  | 596.4  | 617.1  | 639.4  | 661.7  | 678.0  | 709.1  | 729.9  | 726.9  | 721.0  | 673.5  |
| 20°   | 602.3  | 606.8  | 614.2  | 633.5  | 669.1  | 698.7  | 737.3  | 771.4  | 778.9  | 775.9  | 715.1  |
| 22.5° | 629.0  | 630.5  | 637.9  | 646.8  | 675.0  | 713.6  | 771.4  | 826.3  | 839.7  | 832.3  | 761.1  |
| 25°   | 655.7  | 667.6  | 667.6  | 673.5  | 683.9  | 724.0  | 793.7  | 870.8  | 890.1  | 891.6  | 808.5  |
| 27.5° | 698.7  | 701.7  | 710.6  | 713.6  | 722.5  | 746.2  | 818.9  | 903.5  | 948.0  | 942.0  | 851.5  |
| 30°   | 749.2  | 750.7  | 756.6  | 753.6  | 755.1  | 784.8  | 842.6  | 940.6  | 1001.4 | 1002.9 | 897.5  |
| 32.5° | 808.5  | 820.4  | 823.4  | 804.1  | 807.0  | 814.5  | 879.7  | 985.1  | 1068.1 | 1057.8 | 937.6  |
| 35°   | 896.1  | 900.5  | 891.6  | 882.7  | 860.4  | 856.0  | 918.3  | 1029.6 | 1126.0 | 1137.9 | 996.9  |
| 37.5° | 1004.3 | 1016.2 | 1004.3 | 956.9  | 933.1  | 915.3  | 965.8  | 1078.5 | 1195.7 | 1235.8 | 1056.3 |
| 40°   | 1105.2 | 1103.7 | 1091.9 | 1048.9 | 1007.3 | 994.0  | 1034.0 | 1146.8 | 1304.0 | 1342.6 | 1142.3 |
| 42.5° | 1186.8 | 1182.4 | 1175.0 | 1142.3 | 1103.7 | 1081.5 | 1112.6 | 1218.0 | 1394.5 | 1468.7 | 1241.7 |
| 45°   | 1258.0 | 1252.1 | 1253.6 | 1216.5 | 1179.4 | 1191.3 | 1191.3 | 1299.6 | 1501.3 | 1593.3 | 1355.9 |
| 47.5° | 1324.8 | 1327.8 | 1323.3 | 1295.1 | 1266.9 | 1298.1 | 1281.8 | 1393.0 | 1606.7 | 1709.0 | 1452.4 |
| 50°   | 1401.9 | 1407.9 | 1393.0 | 1375.2 | 1350.0 | 1381.2 | 1360.4 | 1480.6 | 1674.9 | 1814.4 | 1568.1 |
| 52.5° | 1474.6 | 1480.6 | 1493.9 | 1471.7 | 1446.4 | 1471.7 | 1424.2 | 1562.2 | 1765.4 | 1916.7 | 1657.1 |
| 55°   | 1492.4 | 1489.5 | 1563.6 | 1587.4 | 1600.7 | 1525.1 | 1480.6 | 1631.9 | 1836.6 | 1982.0 | 1758.0 |
| 57.5° | 1410.8 | 1418.3 | 1519.1 | 1587.4 | 1729.8 | 1664.5 | 1544.4 | 1713.5 | 1910.8 | 2068.0 | 1851.4 |
| 60°   | 1207.6 | 1212.0 | 1338.1 | 1499.8 | 1707.5 | 1795.1 | 1716.4 | 1818.8 | 1992.4 | 2140.7 | 1956.8 |
| 62.5° | 807.0  | 841.2  | 998.4  | 1252.1 | 1550.3 | 1830.7 | 1990.9 | 1996.8 | 2091.8 | 2232.7 | 2100.7 |
| 65°   | 425.8  | 442.1  | 565.2  | 770.0  | 1175.0 | 1707.5 | 2249.0 | 2349.9 | 2290.6 | 2401.8 | 2308.4 |
| 67.5° | 278.9  | 284.8  | 351.6  | 467.3  | 678.0  | 1246.2 | 2278.7 | 2962.6 | 2689.6 | 2723.8 | 2640.7 |
| 70°   | 207.7  | 210.7  | 259.6  | 345.7  | 419.8  | 666.1  | 1867.8 | 3248.9 | 3247.4 | 3156.9 | 3035.3 |
| 72.5° | 152.8  | 157.3  | 191.4  | 264.1  | 323.4  | 359.0  | 1050.3 | 2906.2 | 3418.1 | 3372.1 | 3059.0 |
| 75°   | 120.2  | 123.1  | 140.9  | 204.7  | 261.1  | 235.9  | 532.6  | 2152.6 | 2898.8 | 3119.9 | 2799.4 |
| 77.5° | 97.9   | 100.9  | 111.3  | 148.4  | 209.2  | 182.5  | 255.2  | 1388.6 | 1965.7 | 2246.1 | 2142.2 |
| 80°   | 81.6   | 81.6   | 89.0   | 105.3  | 161.7  | 138.0  | 151.3  | 780.3  | 1059.2 | 1169.0 | 971.7  |
| 82.5° | 69.7   | 68.2   | 74.2   | 77.1   | 120.2  | 99.4   | 97.9   | 353.1  | 465.8  | 494.0  | 364.9  |
| 85°   | 44.5   | 46.0   | 69.7   | 66.8   | 78.6   | 68.2   | 54.9   | 167.6  | 219.6  | 224.0  | 136.5  |
| 87.5° | 17.8   | 17.8   | 29.7   | 37.1   | 44.5   | 41.5   | 26.7   | 75.7   | 96.4   | 96.4   | 38.6   |
| 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°    | 525.2  | 525.2  | 525.2 | 525.2 | 525.2 | 525.2 | 525.2 | 525.2 | 525.2 | 525.2 | 525.2 |
| 2.5°  | 529.6  | 523.7  | 519.2 | 516.3 | 508.9 | 501.4 | 502.9 | 501.4 | 495.5 | 492.5 | 492.5 |
| 5°    | 535.6  | 529.6  | 522.2 | 510.3 | 502.9 | 494.0 | 497.0 | 491.0 | 485.1 | 489.6 | 482.1 |
| 7.5°  | 550.4  | 540.0  | 529.6 | 511.8 | 499.9 | 486.6 | 480.7 | 477.7 | 473.2 | 470.3 | 470.3 |
| 10°   | 571.2  | 556.3  | 537.0 | 510.3 | 491.0 | 470.3 | 467.3 | 461.4 | 456.9 | 456.9 | 455.4 |
| 12.5° | 591.9  | 575.6  | 543.0 | 499.9 | 467.3 | 452.5 | 451.0 | 452.5 | 455.4 | 456.9 | 458.4 |
| 15°   | 618.6  | 591.9  | 541.5 | 480.7 | 448.0 | 442.1 | 449.5 | 455.4 | 461.4 | 467.3 | 465.8 |
| 17.5° | 643.9  | 612.7  | 528.1 | 456.9 | 431.7 | 433.2 | 446.5 | 458.4 | 470.3 | 476.2 | 477.7 |
| 20°   | 678.0  | 632.0  | 508.9 | 428.7 | 415.4 | 428.7 | 446.5 | 461.4 | 474.7 | 482.1 | 483.6 |
| 22.5° | 716.5  | 654.2  | 483.6 | 403.5 | 402.0 | 415.4 | 433.2 | 455.4 | 470.3 | 483.6 | 482.1 |
| 25°   | 750.7  | 669.1  | 451.0 | 382.8 | 385.7 | 394.6 | 415.4 | 439.1 | 454.0 | 468.8 | 464.3 |
| 27.5° | 772.9  | 672.0  | 416.9 | 367.9 | 367.9 | 376.8 | 396.1 | 410.9 | 424.3 | 436.2 | 437.6 |
| 30°   | 798.1  | 666.1  | 378.3 | 348.6 | 348.6 | 360.5 | 367.9 | 376.8 | 384.2 | 387.2 | 390.2 |
| 32.5° | 827.8  | 652.8  | 354.6 | 333.8 | 333.8 | 342.7 | 347.1 | 344.2 | 342.7 | 335.3 | 339.7 |
| 35°   | 856.0  | 633.5  | 327.9 | 314.5 | 320.4 | 324.9 | 323.4 | 314.5 | 305.6 | 292.3 | 287.8 |
| 37.5° | 890.1  | 614.2  | 304.1 | 293.7 | 304.1 | 305.6 | 305.6 | 295.2 | 283.4 | 267.0 | 267.0 |
| 40°   | 942.0  | 599.3  | 284.8 | 280.4 | 290.8 | 289.3 | 281.9 | 274.5 | 278.9 | 270.0 | 270.0 |
| 42.5° | 996.9  | 593.4  | 267.0 | 268.5 | 273.0 | 274.5 | 267.0 | 258.1 | 275.9 | 265.6 | 267.0 |
| 45°   | 1065.2 | 597.9  | 255.2 | 253.7 | 264.1 | 262.6 | 258.1 | 250.7 | 256.7 | 229.9 | 222.5 |
| 47.5° | 1129.0 | 606.8  | 249.2 | 243.3 | 255.2 | 258.1 | 252.2 | 235.9 | 227.0 | 210.7 | 207.7 |
| 50°   | 1186.8 | 626.0  | 243.3 | 231.4 | 243.3 | 249.2 | 238.8 | 221.0 | 210.7 | 200.3 | 200.3 |
| 52.5° | 1241.7 | 654.2  | 240.3 | 218.1 | 228.5 | 235.9 | 229.9 | 212.1 | 200.3 | 195.8 | 191.4 |
| 55°   | 1298.1 | 679.5  | 235.9 | 209.2 | 212.1 | 227.0 | 225.5 | 201.8 | 189.9 | 189.9 | 188.4 |
| 57.5° | 1378.2 | 713.6  | 229.9 | 194.3 | 200.3 | 216.6 | 216.6 | 197.3 | 184.0 | 185.4 | 186.9 |
| 60°   | 1459.8 | 753.6  | 224.0 | 179.5 | 184.0 | 206.2 | 209.2 | 191.4 | 179.5 | 181.0 | 179.5 |
| 62.5° | 1590.3 | 827.8  | 212.1 | 161.7 | 170.6 | 192.9 | 200.3 | 184.0 | 173.6 | 176.5 | 176.5 |
| 65°   | 1787.7 | 955.4  | 186.9 | 146.9 | 157.3 | 181.0 | 191.4 | 176.5 | 164.7 | 173.6 | 170.6 |
| 67.5° | 2105.1 | 1130.4 | 157.3 | 135.0 | 148.4 | 169.1 | 181.0 | 167.6 | 157.3 | 170.6 | 166.2 |
| 70°   | 2390.0 | 1216.5 | 135.0 | 124.6 | 135.0 | 155.8 | 169.1 | 158.7 | 148.4 | 161.7 | 155.8 |
| 72.5° | 2274.2 | 953.9  | 117.2 | 112.7 | 123.1 | 140.9 | 157.3 | 146.9 | 136.5 | 143.9 | 138.0 |
| 75°   | 1962.7 | 759.6  | 102.4 | 100.9 | 109.8 | 127.6 | 143.9 | 136.5 | 126.1 | 129.1 | 126.1 |
| 77.5° | 1488.0 | 627.5  | 87.5  | 86.0  | 93.5  | 114.2 | 129.1 | 123.1 | 112.7 | 111.3 | 111.3 |
| 80°   | 664.6  | 308.6  | 72.7  | 72.7  | 77.1  | 97.9  | 109.8 | 106.8 | 96.4  | 94.9  | 93.5  |
| 82.5° | 218.1  | 117.2  | 59.3  | 56.4  | 62.3  | 81.6  | 97.9  | 94.9  | 84.6  | 81.6  | 78.6  |
| 85°   | 87.5   | 56.4   | 43.0  | 43.0  | 49.0  | 68.2  | 87.5  | 81.6  | 68.2  | 60.8  | 60.8  |
| 87.5° | 29.7   | 23.7   | 22.3  | 22.3  | 31.2  | 46.0  | 65.3  | 54.9  | 49.0  | 43.0  | 44.5  |
| 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)