

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: P670643

Luminaire Tested: **CCP-SA-2A-727-U-T2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670643  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-727-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2  
distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4564.5 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

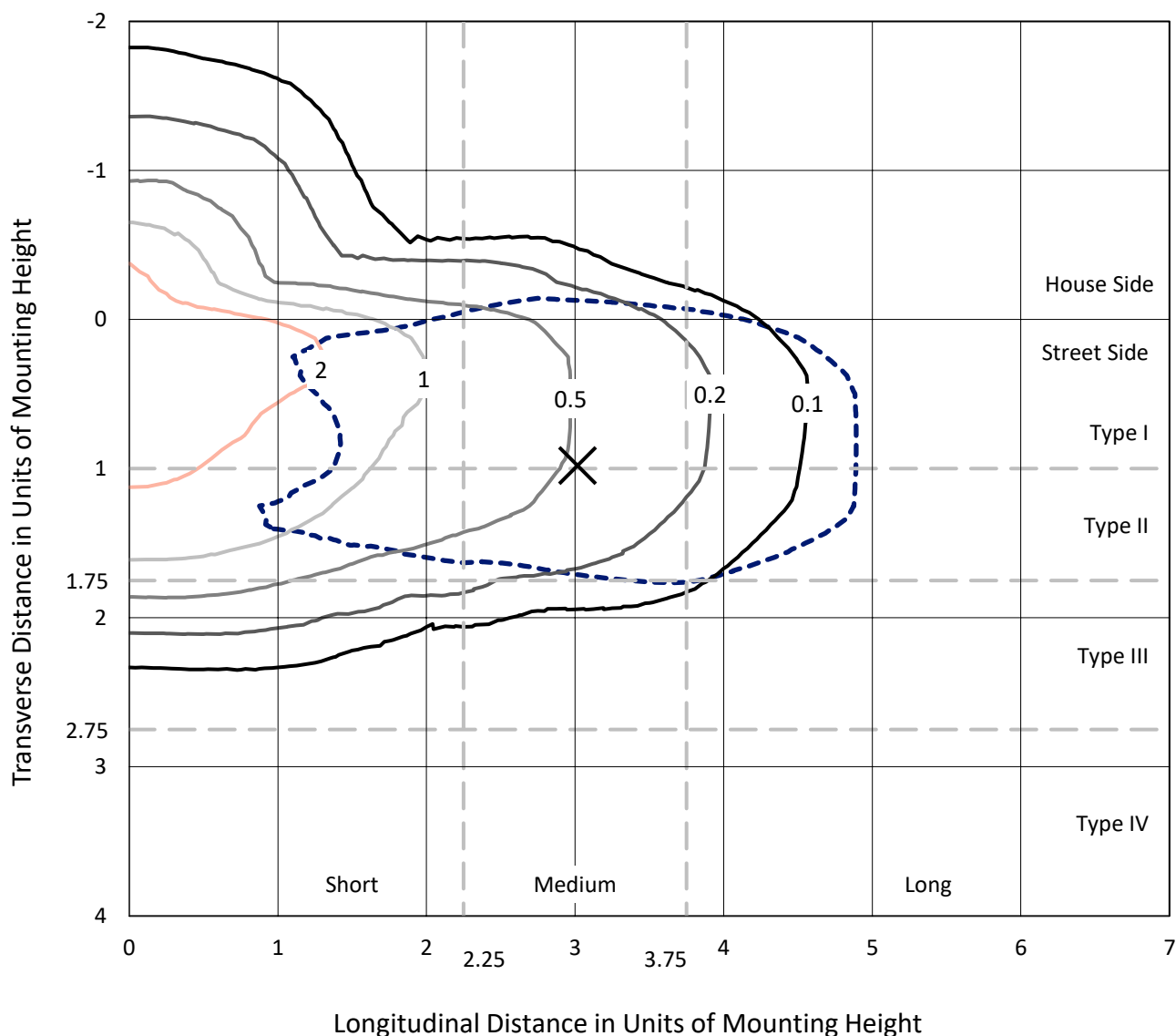
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

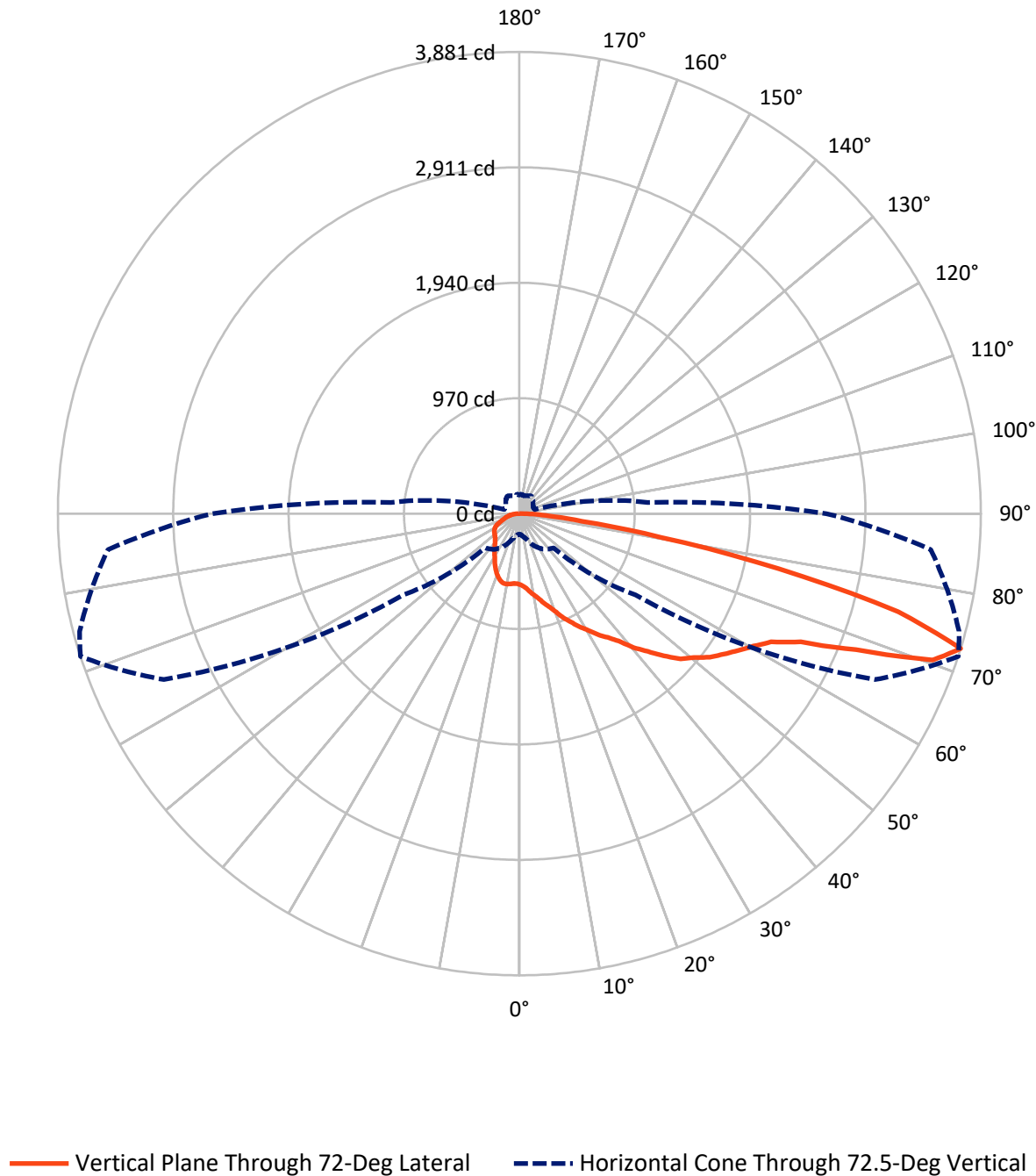
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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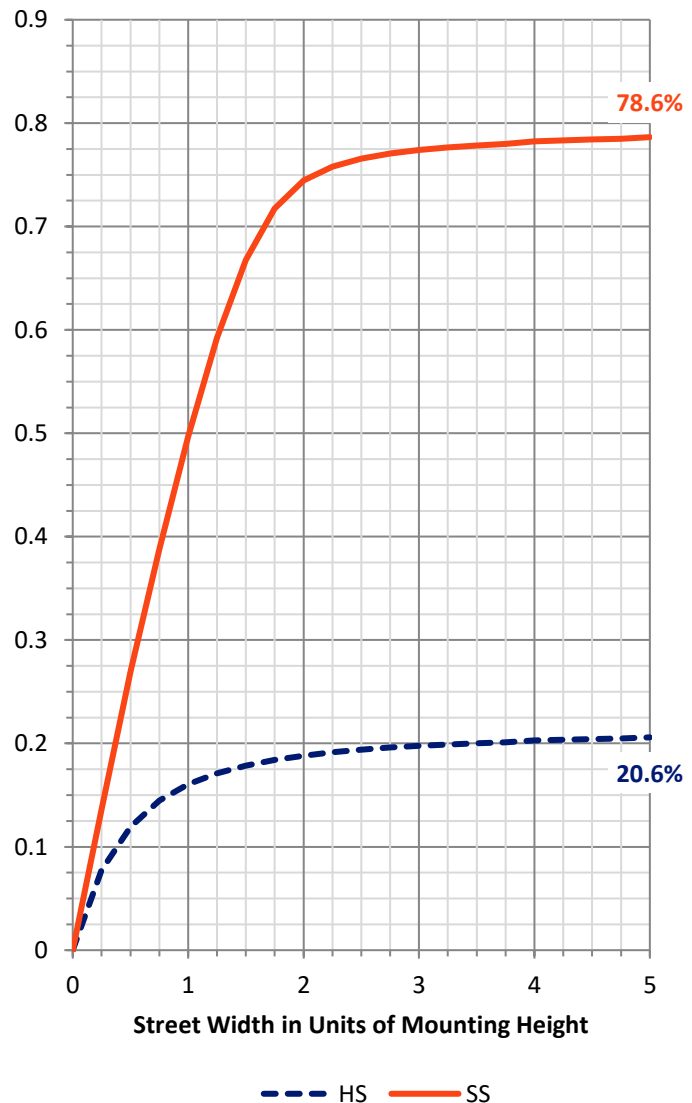
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 960.6    | 0.0    | 960.6  |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 3603.9   | 0.0    | 3603.9 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 4564.5   | 0.0    | 4564.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.9   | 1.3       |
| 10°-20°   | 183.2  | 4.0       |
| 20°-30°   | 317.0  | 6.9       |
| 30°-40°   | 468.2  | 10.3      |
| 40°-50°   | 696.2  | 15.3      |
| 50°-60°   | 954.5  | 20.9      |
| 60°-70°   | 1035.3 | 22.7      |
| 70°-80°   | 729.9  | 16.0      |
| 80°-90°   | 121.3  | 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°    | 4564.5 | 100.0     |
| 0°-180°   | 4564.5 | 100.0     |

**Coefficient of Utilization**



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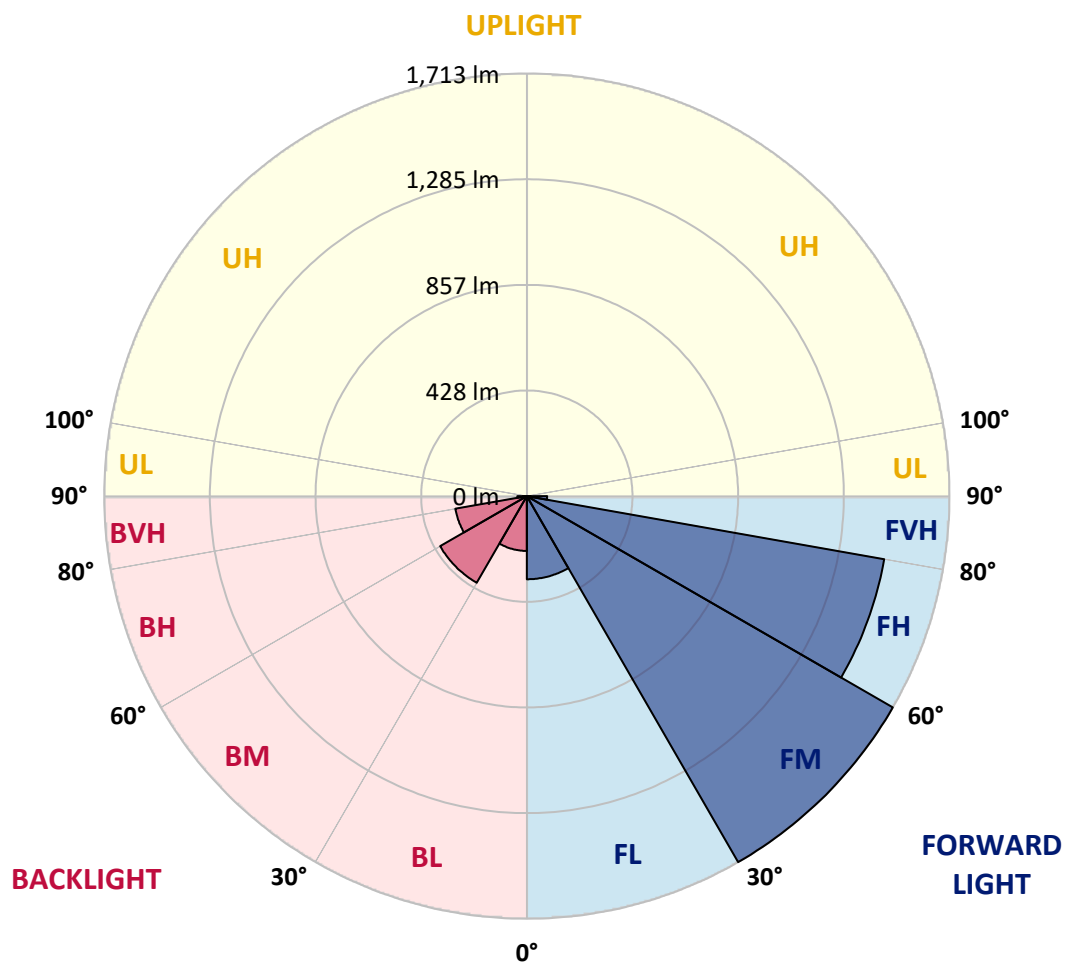
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 337.1  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1713.2 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 1471.0 | 32.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 82.7   | 1.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 222.0  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 405.7  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 294.3  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 38.6   | 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°    | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  |
| 2.5°  | 643.4  | 643.4  | 638.4  | 636.7  | 636.7  | 623.2  | 624.9  | 616.5  | 609.7  | 609.7  | 603.0  |
| 5°    | 677.1  | 673.7  | 673.7  | 673.7  | 665.3  | 660.3  | 658.6  | 643.4  | 631.6  | 633.3  | 613.1  |
| 7.5°  | 685.5  | 687.2  | 688.9  | 697.3  | 692.3  | 695.6  | 692.3  | 675.4  | 667.0  | 658.6  | 640.0  |
| 10°   | 690.6  | 693.9  | 693.9  | 705.7  | 705.7  | 714.2  | 719.2  | 712.5  | 697.3  | 688.9  | 658.6  |
| 12.5° | 702.4  | 697.3  | 704.0  | 712.5  | 720.9  | 736.1  | 751.2  | 744.5  | 734.4  | 724.3  | 690.6  |
| 15°   | 702.4  | 704.0  | 709.1  | 722.6  | 736.1  | 751.2  | 778.2  | 788.3  | 783.2  | 764.7  | 729.3  |
| 17.5° | 682.2  | 677.1  | 700.7  | 725.9  | 751.2  | 769.7  | 805.1  | 828.7  | 825.3  | 818.6  | 764.7  |
| 20°   | 683.8  | 688.9  | 697.3  | 719.2  | 759.6  | 793.3  | 837.1  | 875.8  | 884.3  | 880.9  | 811.8  |
| 22.5° | 714.2  | 715.8  | 724.3  | 734.4  | 766.4  | 810.2  | 875.8  | 938.2  | 953.3  | 944.9  | 864.1  |
| 25°   | 744.5  | 757.9  | 757.9  | 764.7  | 776.5  | 822.0  | 901.1  | 988.7  | 1010.6 | 1012.3 | 918.0  |
| 27.5° | 793.3  | 796.7  | 806.8  | 810.2  | 820.3  | 847.2  | 929.7  | 1025.8 | 1076.3 | 1069.5 | 966.8  |
| 30°   | 850.6  | 852.3  | 859.0  | 855.6  | 857.3  | 891.0  | 956.7  | 1067.9 | 1136.9 | 1138.6 | 1019.0 |
| 32.5° | 918.0  | 931.4  | 934.8  | 912.9  | 916.3  | 924.7  | 998.8  | 1118.4 | 1212.7 | 1200.9 | 1064.5 |
| 35°   | 1017.3 | 1022.4 | 1012.3 | 1002.2 | 976.9  | 971.9  | 1042.6 | 1168.9 | 1278.4 | 1291.9 | 1131.9 |
| 37.5° | 1140.3 | 1153.8 | 1140.3 | 1086.4 | 1059.4 | 1039.2 | 1096.5 | 1224.5 | 1357.6 | 1403.0 | 1199.2 |
| 40°   | 1254.8 | 1253.1 | 1239.7 | 1190.8 | 1143.7 | 1128.5 | 1174.0 | 1302.0 | 1480.5 | 1524.3 | 1296.9 |
| 42.5° | 1347.5 | 1342.4 | 1334.0 | 1296.9 | 1253.1 | 1227.9 | 1263.2 | 1382.8 | 1583.3 | 1667.5 | 1409.8 |
| 45°   | 1428.3 | 1421.6 | 1423.3 | 1381.1 | 1339.0 | 1352.5 | 1352.5 | 1475.5 | 1704.5 | 1809.0 | 1539.5 |
| 47.5° | 1504.1 | 1507.5 | 1502.4 | 1470.4 | 1438.4 | 1473.8 | 1455.3 | 1581.6 | 1824.1 | 1940.3 | 1649.0 |
| 50°   | 1591.7 | 1598.4 | 1581.6 | 1561.4 | 1532.7 | 1568.1 | 1544.5 | 1681.0 | 1901.6 | 2059.9 | 1780.3 |
| 52.5° | 1674.2 | 1681.0 | 1696.1 | 1670.9 | 1642.2 | 1670.9 | 1617.0 | 1773.6 | 2004.3 | 2176.2 | 1881.4 |
| 55°   | 1694.4 | 1691.1 | 1775.3 | 1802.2 | 1817.4 | 1731.5 | 1681.0 | 1852.8 | 2085.2 | 2250.3 | 1995.9 |
| 57.5° | 1601.8 | 1610.2 | 1724.8 | 1802.2 | 1963.9 | 1889.8 | 1753.4 | 1945.4 | 2169.4 | 2348.0 | 2102.0 |
| 60°   | 1371.0 | 1376.1 | 1519.3 | 1702.9 | 1938.7 | 2038.0 | 1948.8 | 2065.0 | 2262.1 | 2430.5 | 2221.6 |
| 62.5° | 916.3  | 955.0  | 1133.6 | 1421.6 | 1760.1 | 2078.5 | 2260.4 | 2267.1 | 2374.9 | 2534.9 | 2385.0 |
| 65°   | 483.4  | 501.9  | 641.7  | 874.2  | 1334.0 | 1938.7 | 2553.4 | 2668.0 | 2600.6 | 2726.9 | 2620.8 |
| 67.5° | 316.7  | 323.4  | 399.2  | 530.6  | 769.7  | 1414.8 | 2587.1 | 3363.6 | 3053.7 | 3092.4 | 2998.1 |
| 70°   | 235.8  | 239.2  | 294.8  | 392.4  | 476.7  | 756.3  | 2120.6 | 3688.7 | 3687.0 | 3584.2 | 3446.1 |
| 72.5° | 173.5  | 178.5  | 217.3  | 299.8  | 367.2  | 407.6  | 1192.5 | 3299.6 | 3880.7 | 3828.5 | 3473.1 |
| 75°   | 136.4  | 139.8  | 160.0  | 232.4  | 296.4  | 267.8  | 604.7  | 2444.0 | 3291.2 | 3542.1 | 3178.3 |
| 77.5° | 111.2  | 114.5  | 126.3  | 168.4  | 237.5  | 207.2  | 289.7  | 1576.5 | 2231.7 | 2550.1 | 2432.2 |
| 80°   | 92.6   | 92.6   | 101.1  | 119.6  | 183.6  | 156.6  | 171.8  | 886.0  | 1202.6 | 1327.2 | 1103.2 |
| 82.5° | 79.2   | 77.5   | 84.2   | 87.6   | 136.4  | 112.8  | 111.2  | 400.9  | 528.9  | 560.9  | 414.3  |
| 85°   | 50.5   | 52.2   | 79.2   | 75.8   | 89.3   | 77.5   | 62.3   | 190.3  | 249.3  | 254.3  | 155.0  |
| 87.5° | 20.2   | 20.2   | 33.7   | 42.1   | 50.5   | 47.2   | 30.3   | 85.9   | 109.5  | 109.5  | 43.8   |
| 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°    | 596.3  | 596.3  | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 |
| 2.5°  | 601.3  | 594.6  | 589.5 | 586.1 | 577.7 | 569.3 | 571.0 | 569.3 | 562.6 | 559.2 | 559.2 |
| 5°    | 608.0  | 601.3  | 592.9 | 579.4 | 571.0 | 560.9 | 564.2 | 557.5 | 550.8 | 555.8 | 547.4 |
| 7.5°  | 624.9  | 613.1  | 601.3 | 581.1 | 567.6 | 552.5 | 545.7 | 542.4 | 537.3 | 533.9 | 533.9 |
| 10°   | 648.5  | 631.6  | 609.7 | 579.4 | 557.5 | 533.9 | 530.6 | 523.8 | 518.8 | 518.8 | 517.1 |
| 12.5° | 672.0  | 653.5  | 616.5 | 567.6 | 530.6 | 513.7 | 512.0 | 513.7 | 517.1 | 518.8 | 520.5 |
| 15°   | 702.4  | 672.0  | 614.8 | 545.7 | 508.7 | 501.9 | 510.4 | 517.1 | 523.8 | 530.6 | 528.9 |
| 17.5° | 731.0  | 695.6  | 599.6 | 518.8 | 490.1 | 491.8 | 507.0 | 520.5 | 533.9 | 540.7 | 542.4 |
| 20°   | 769.7  | 717.5  | 577.7 | 486.8 | 471.6 | 486.8 | 507.0 | 523.8 | 539.0 | 547.4 | 549.1 |
| 22.5° | 813.5  | 742.8  | 549.1 | 458.1 | 456.5 | 471.6 | 491.8 | 517.1 | 533.9 | 549.1 | 547.4 |
| 25°   | 852.3  | 759.6  | 512.0 | 434.6 | 437.9 | 448.0 | 471.6 | 498.6 | 515.4 | 532.2 | 527.2 |
| 27.5° | 877.5  | 763.0  | 473.3 | 417.7 | 417.7 | 427.8 | 449.7 | 466.6 | 481.7 | 495.2 | 496.9 |
| 30°   | 906.2  | 756.3  | 429.5 | 395.8 | 395.8 | 409.3 | 417.7 | 427.8 | 436.2 | 439.6 | 443.0 |
| 32.5° | 939.9  | 741.1  | 402.6 | 379.0 | 379.0 | 389.1 | 394.1 | 390.8 | 389.1 | 380.7 | 385.7 |
| 35°   | 971.9  | 719.2  | 372.2 | 357.1 | 363.8 | 368.9 | 367.2 | 357.1 | 347.0 | 331.8 | 326.8 |
| 37.5° | 1010.6 | 697.3  | 345.3 | 333.5 | 345.3 | 347.0 | 347.0 | 335.2 | 321.7 | 303.2 | 303.2 |
| 40°   | 1069.5 | 680.5  | 323.4 | 318.3 | 330.1 | 328.4 | 320.0 | 311.6 | 316.7 | 306.5 | 306.5 |
| 42.5° | 1131.9 | 673.7  | 303.2 | 304.9 | 309.9 | 311.6 | 303.2 | 293.1 | 313.3 | 301.5 | 303.2 |
| 45°   | 1209.3 | 678.8  | 289.7 | 288.0 | 299.8 | 298.1 | 293.1 | 284.7 | 291.4 | 261.1 | 252.6 |
| 47.5° | 1281.8 | 688.9  | 283.0 | 276.2 | 289.7 | 293.1 | 286.3 | 267.8 | 257.7 | 239.2 | 235.8 |
| 50°   | 1347.5 | 710.8  | 276.2 | 262.8 | 276.2 | 283.0 | 271.2 | 251.0 | 239.2 | 227.4 | 227.4 |
| 52.5° | 1409.8 | 742.8  | 272.9 | 247.6 | 259.4 | 267.8 | 261.1 | 240.9 | 227.4 | 222.3 | 217.3 |
| 55°   | 1473.8 | 771.4  | 267.8 | 237.5 | 240.9 | 257.7 | 256.0 | 229.1 | 215.6 | 215.6 | 213.9 |
| 57.5° | 1564.7 | 810.2  | 261.1 | 220.6 | 227.4 | 245.9 | 245.9 | 224.0 | 208.9 | 210.5 | 212.2 |
| 60°   | 1657.4 | 855.6  | 254.3 | 203.8 | 208.9 | 234.1 | 237.5 | 217.3 | 203.8 | 205.5 | 203.8 |
| 62.5° | 1805.6 | 939.9  | 240.9 | 183.6 | 193.7 | 219.0 | 227.4 | 208.9 | 197.1 | 200.4 | 200.4 |
| 65°   | 2029.6 | 1084.7 | 212.2 | 166.7 | 178.5 | 205.5 | 217.3 | 200.4 | 187.0 | 197.1 | 193.7 |
| 67.5° | 2390.1 | 1283.5 | 178.5 | 153.3 | 168.4 | 192.0 | 205.5 | 190.3 | 178.5 | 193.7 | 188.6 |
| 70°   | 2713.5 | 1381.1 | 153.3 | 141.5 | 153.3 | 176.9 | 192.0 | 180.2 | 168.4 | 183.6 | 176.9 |
| 72.5° | 2582.1 | 1083.0 | 133.1 | 128.0 | 139.8 | 160.0 | 178.5 | 166.7 | 155.0 | 163.4 | 156.6 |
| 75°   | 2228.4 | 862.4  | 116.2 | 114.5 | 124.6 | 144.9 | 163.4 | 155.0 | 143.2 | 146.5 | 143.2 |
| 77.5° | 1689.4 | 712.5  | 99.4  | 97.7  | 106.1 | 129.7 | 146.5 | 139.8 | 128.0 | 126.3 | 126.3 |
| 80°   | 754.6  | 350.3  | 82.5  | 82.5  | 87.6  | 111.2 | 124.6 | 121.3 | 109.5 | 107.8 | 106.1 |
| 82.5° | 247.6  | 133.1  | 67.4  | 64.0  | 70.7  | 92.6  | 111.2 | 107.8 | 96.0  | 92.6  | 89.3  |
| 85°   | 99.4   | 64.0   | 48.8  | 48.8  | 55.6  | 77.5  | 99.4  | 92.6  | 77.5  | 69.1  | 69.1  |
| 87.5° | 33.7   | 26.9   | 25.3  | 25.3  | 35.4  | 52.2  | 74.1  | 62.3  | 55.6  | 48.8  | 50.5  |
| 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)