

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: P670777

Luminaire Tested: **CCP-SA-2B-722-U-T3**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670777  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-722-U-T3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T3  
distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5139.9 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

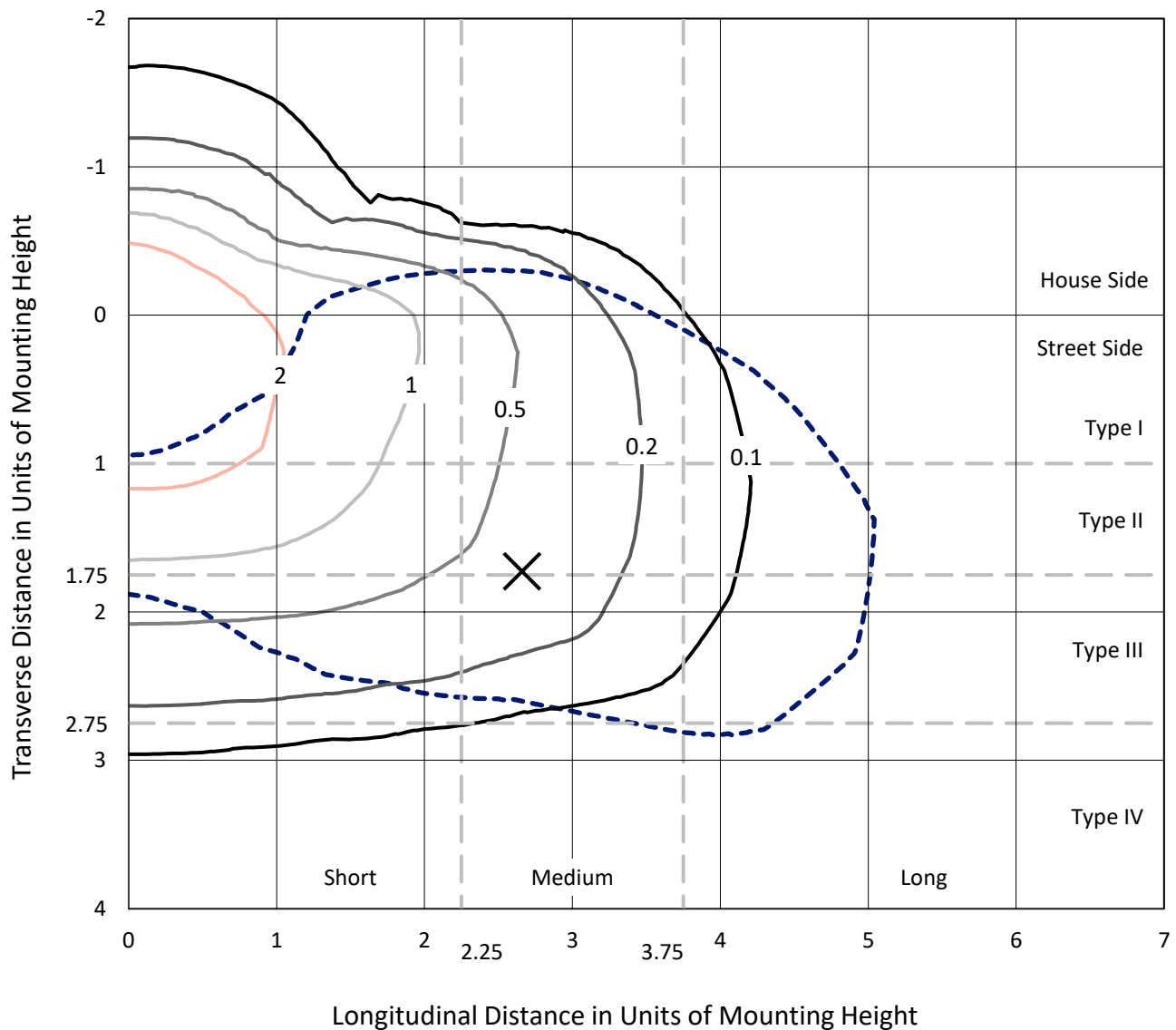
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

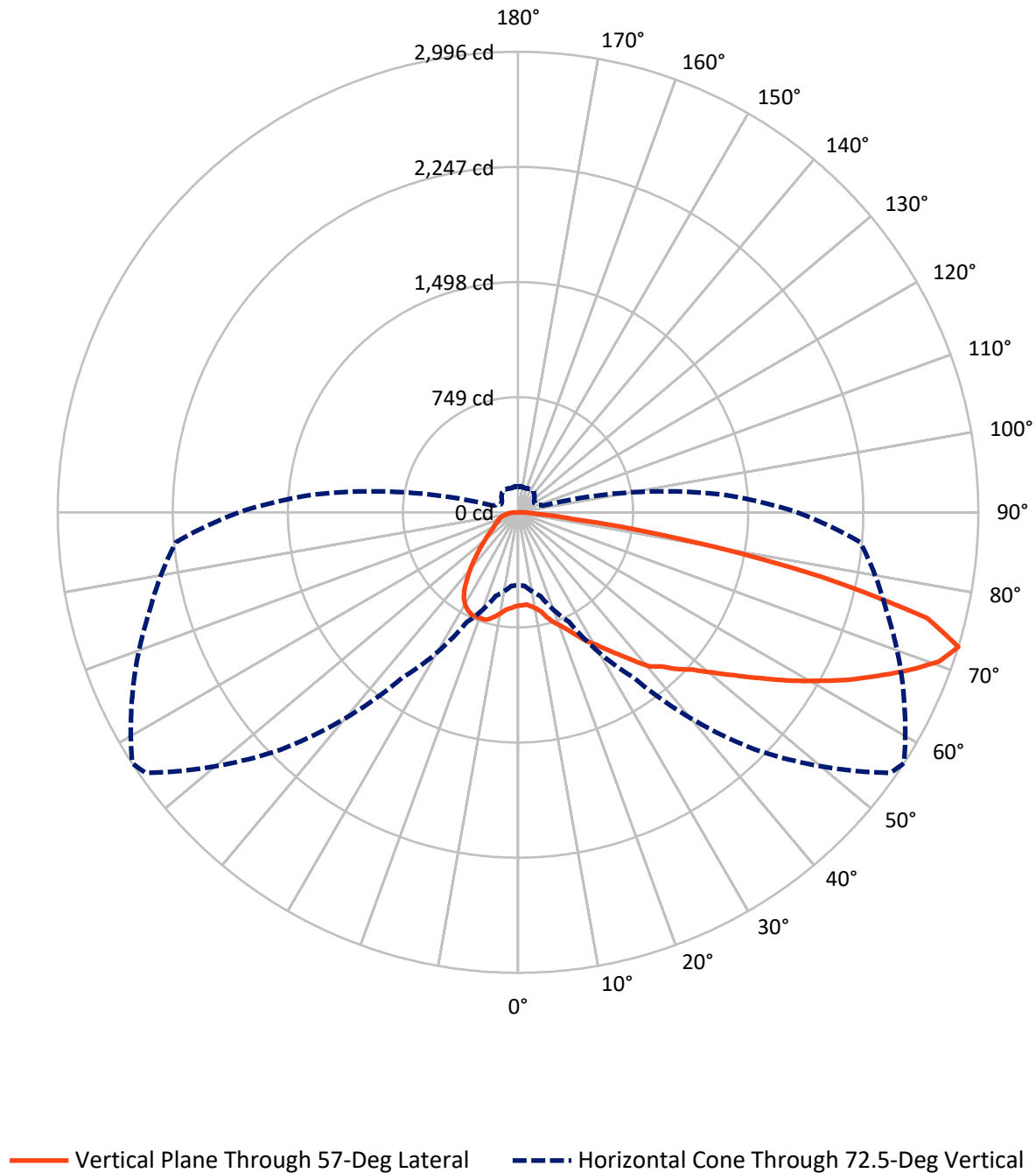


Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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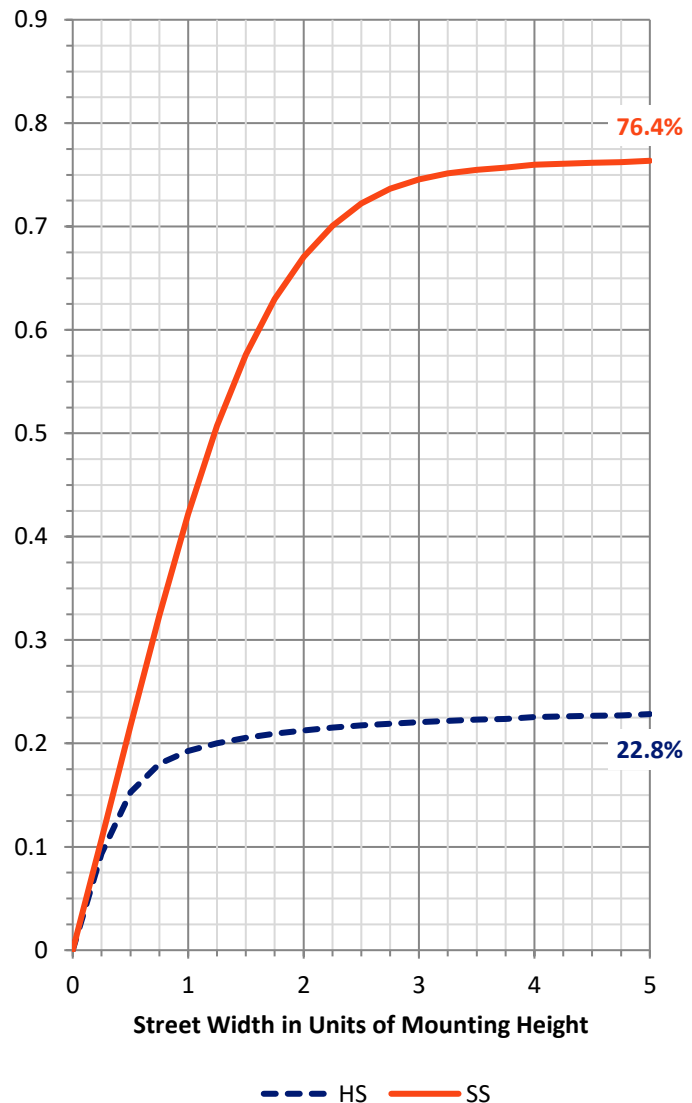
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1200.4   | 0.0    | 1200.4 |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 3939.6   | 0.0    | 3939.6 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 5139.9   | 0.0    | 5139.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 1.2       |
| 10°-20°   | 203.0  | 3.9       |
| 20°-30°   | 371.0  | 7.2       |
| 30°-40°   | 544.3  | 10.6      |
| 40°-50°   | 749.4  | 14.6      |
| 50°-60°   | 1027.7 | 20.0      |
| 60°-70°   | 1238.8 | 24.1      |
| 70°-80°   | 825.2  | 16.1      |
| 80°-90°   | 120.2  | 2.3       |
| 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°    | 5139.9 | 100.0     |
| 0°-180°   | 5139.9 | 100.0     |

**Coefficient of Utilization**



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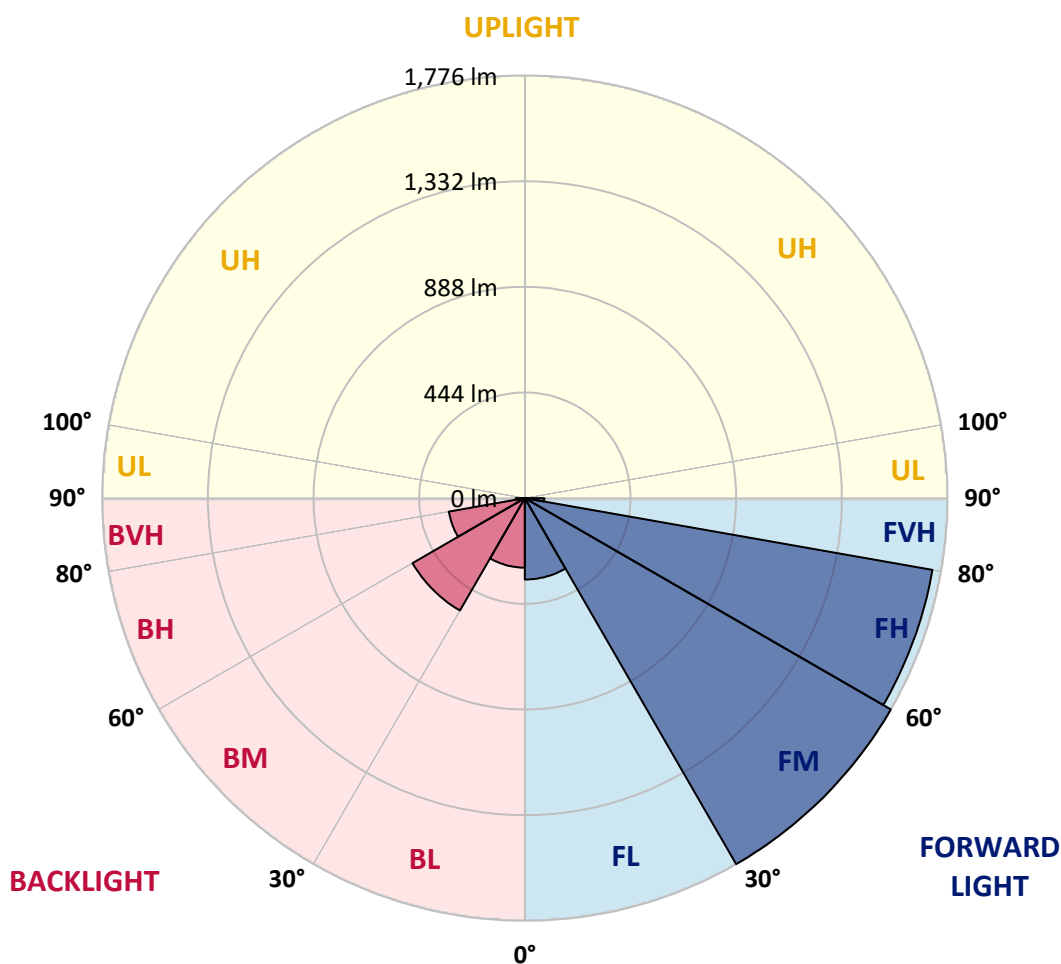
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 341.9  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 1776.3 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 1739.5 | 33.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 81.8   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 292.2  | 5.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 545.2  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 324.5  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 38.4   | 0.7       |                         |      | 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°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  | 606.7  |
| 2.5°  | 595.4  | 597.3  | 601.1  | 599.2  | 599.2  | 593.6  | 602.9  | 604.8  | 601.1  | 602.9  | 606.7  |
| 5°    | 595.4  | 599.2  | 604.8  | 601.1  | 602.9  | 601.1  | 597.3  | 602.9  | 602.9  | 604.8  | 610.4  |
| 7.5°  | 627.3  | 625.4  | 625.4  | 619.8  | 617.9  | 616.0  | 617.9  | 617.9  | 614.2  | 616.0  | 616.0  |
| 10°   | 662.9  | 662.9  | 659.1  | 659.1  | 655.4  | 646.0  | 636.6  | 634.8  | 629.1  | 631.0  | 631.0  |
| 12.5° | 700.3  | 704.0  | 707.8  | 696.6  | 692.8  | 677.8  | 672.2  | 661.0  | 661.0  | 657.2  | 655.4  |
| 15°   | 747.1  | 741.5  | 745.2  | 741.5  | 732.1  | 717.2  | 707.8  | 709.7  | 696.6  | 692.8  | 687.2  |
| 17.5° | 788.3  | 790.2  | 784.6  | 780.8  | 764.0  | 752.7  | 754.6  | 752.7  | 735.9  | 730.3  | 720.9  |
| 20°   | 837.0  | 835.1  | 835.1  | 823.9  | 808.9  | 793.9  | 788.3  | 786.4  | 790.2  | 778.9  | 756.5  |
| 22.5° | 887.5  | 880.1  | 880.1  | 870.7  | 850.1  | 840.7  | 837.0  | 829.5  | 833.2  | 823.9  | 790.2  |
| 25°   | 928.7  | 928.7  | 941.8  | 923.1  | 911.9  | 893.2  | 885.7  | 887.5  | 889.4  | 870.7  | 831.4  |
| 27.5° | 983.0  | 973.7  | 986.8  | 977.4  | 971.8  | 951.2  | 941.8  | 947.5  | 943.7  | 923.1  | 868.8  |
| 30°   | 1052.3 | 1054.2 | 1046.7 | 1033.6 | 1026.1 | 1011.1 | 1005.5 | 999.9  | 1005.5 | 979.3  | 910.0  |
| 32.5° | 1138.5 | 1144.1 | 1125.3 | 1110.4 | 1097.3 | 1082.3 | 1071.0 | 1065.4 | 1071.0 | 1031.7 | 941.8  |
| 35°   | 1237.7 | 1243.3 | 1228.3 | 1211.5 | 1196.5 | 1159.1 | 1149.7 | 1140.3 | 1119.7 | 1056.1 | 971.8  |
| 37.5° | 1329.4 | 1322.0 | 1318.2 | 1318.2 | 1290.1 | 1235.8 | 1230.2 | 1224.6 | 1185.3 | 1104.8 | 1013.0 |
| 40°   | 1391.2 | 1400.6 | 1396.9 | 1393.1 | 1389.4 | 1338.8 | 1327.6 | 1318.2 | 1252.7 | 1177.8 | 1071.0 |
| 42.5° | 1460.5 | 1454.9 | 1469.9 | 1475.5 | 1462.4 | 1447.4 | 1402.5 | 1370.6 | 1312.6 | 1252.7 | 1157.2 |
| 45°   | 1542.9 | 1539.2 | 1544.8 | 1565.4 | 1546.7 | 1552.3 | 1477.4 | 1454.9 | 1381.9 | 1346.3 | 1265.8 |
| 47.5° | 1615.9 | 1625.3 | 1653.4 | 1659.0 | 1644.0 | 1670.2 | 1565.4 | 1529.8 | 1483.0 | 1454.9 | 1378.1 |
| 50°   | 1647.8 | 1659.0 | 1722.7 | 1762.0 | 1763.9 | 1805.0 | 1653.4 | 1638.4 | 1574.7 | 1586.0 | 1518.6 |
| 52.5° | 1621.5 | 1657.1 | 1733.9 | 1836.9 | 1900.5 | 1941.7 | 1769.5 | 1762.0 | 1703.9 | 1739.5 | 1672.1 |
| 55°   | 1645.9 | 1679.6 | 1730.2 | 1874.3 | 2035.4 | 2044.7 | 1930.5 | 1902.4 | 1844.4 | 1893.1 | 1831.3 |
| 57.5° | 1657.1 | 1638.4 | 1733.9 | 1915.5 | 2134.6 | 2158.9 | 2084.0 | 2063.4 | 2018.5 | 2065.3 | 2029.7 |
| 60°   | 1569.1 | 1591.6 | 1681.5 | 1904.3 | 2140.2 | 2280.7 | 2256.3 | 2226.4 | 2185.2 | 2228.2 | 2207.6 |
| 62.5° | 1469.9 | 1484.9 | 1582.2 | 1836.9 | 2172.1 | 2368.7 | 2423.0 | 2400.5 | 2342.4 | 2379.9 | 2415.5 |
| 65°   | 1344.4 | 1346.3 | 1454.9 | 1717.0 | 2110.3 | 2419.2 | 2569.0 | 2567.1 | 2525.9 | 2516.6 | 2572.8 |
| 67.5° | 1190.9 | 1205.9 | 1292.0 | 1589.7 | 2026.0 | 2475.4 | 2713.2 | 2741.3 | 2658.9 | 2585.9 | 2606.5 |
| 70°   | 913.8  | 928.7  | 1011.1 | 1303.2 | 1853.7 | 2458.5 | 2891.1 | 2906.1 | 2745.0 | 2559.7 | 2507.2 |
| 72.5° | 475.6  | 479.3  | 563.6  | 786.4  | 1314.5 | 2183.3 | 2956.6 | 2995.9 | 2767.5 | 2482.9 | 2235.7 |
| 75°   | 157.3  | 157.3  | 192.9  | 299.6  | 619.8  | 1396.9 | 2677.6 | 2748.8 | 2657.0 | 2291.9 | 1829.4 |
| 77.5° | 93.6   | 95.5   | 114.2  | 149.8  | 247.2  | 558.0  | 1887.4 | 2012.9 | 2173.9 | 1949.2 | 1336.9 |
| 80°   | 67.4   | 69.3   | 86.1   | 103.0  | 147.9  | 179.8  | 947.5  | 1121.6 | 1335.1 | 1254.5 | 713.4  |
| 82.5° | 50.6   | 50.6   | 67.4   | 76.8   | 101.1  | 106.7  | 264.0  | 361.4  | 576.7  | 449.4  | 196.6  |
| 85°   | 52.4   | 52.4   | 52.4   | 54.3   | 69.3   | 61.8   | 110.5  | 118.0  | 168.5  | 147.9  | 54.3   |
| 87.5° | 18.7   | 20.6   | 52.4   | 35.6   | 35.6   | 26.2   | 43.1   | 46.8   | 59.9   | 61.8   | 20.6   |
| 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°    | 606.7  | 606.7  | 606.7 | 606.7 | 606.7 | 606.7 | 606.7 | 606.7 | 606.7 | 606.7 | 606.7 |
| 2.5°  | 608.5  | 608.5  | 610.4 | 610.4 | 614.2 | 617.9 | 623.5 | 619.8 | 619.8 | 621.7 | 619.8 |
| 5°    | 606.7  | 608.5  | 614.2 | 623.5 | 627.3 | 629.1 | 640.4 | 640.4 | 640.4 | 644.1 | 644.1 |
| 7.5°  | 614.2  | 617.9  | 627.3 | 636.6 | 638.5 | 644.1 | 659.1 | 662.9 | 672.2 | 676.0 | 677.8 |
| 10°   | 632.9  | 638.5  | 646.0 | 657.2 | 664.7 | 672.2 | 683.4 | 696.6 | 694.7 | 705.9 | 707.8 |
| 12.5° | 661.0  | 659.1  | 672.2 | 683.4 | 690.9 | 702.2 | 705.9 | 705.9 | 705.9 | 705.9 | 709.7 |
| 15°   | 683.4  | 687.2  | 698.4 | 705.9 | 715.3 | 713.4 | 705.9 | 698.4 | 700.3 | 698.4 | 698.4 |
| 17.5° | 717.2  | 717.2  | 726.5 | 728.4 | 732.1 | 713.4 | 702.2 | 702.2 | 707.8 | 707.8 | 704.0 |
| 20°   | 750.9  | 749.0  | 752.7 | 750.9 | 726.5 | 704.0 | 702.2 | 704.0 | 705.9 | 704.0 | 702.2 |
| 22.5° | 782.7  | 778.9  | 773.3 | 765.8 | 722.8 | 702.2 | 698.4 | 689.1 | 679.7 | 679.7 | 674.1 |
| 25°   | 810.8  | 807.0  | 792.0 | 769.6 | 720.9 | 690.9 | 672.2 | 649.7 | 638.5 | 632.9 | 640.4 |
| 27.5° | 837.0  | 829.5  | 808.9 | 769.6 | 704.0 | 661.0 | 625.4 | 597.3 | 588.0 | 580.5 | 588.0 |
| 30°   | 872.6  | 859.5  | 831.4 | 764.0 | 677.8 | 614.2 | 565.5 | 531.8 | 522.4 | 511.2 | 514.9 |
| 32.5° | 904.4  | 874.4  | 850.1 | 747.1 | 644.1 | 561.7 | 505.6 | 471.9 | 455.0 | 445.6 | 453.1 |
| 35°   | 938.1  | 908.1  | 857.6 | 720.9 | 591.7 | 498.1 | 441.9 | 410.1 | 397.0 | 383.9 | 383.9 |
| 37.5° | 971.8  | 955.0  | 868.8 | 672.2 | 528.0 | 438.2 | 387.6 | 363.3 | 340.8 | 316.4 | 316.4 |
| 40°   | 1043.0 | 1020.5 | 881.9 | 616.0 | 464.4 | 380.1 | 344.5 | 312.7 | 290.2 | 256.5 | 254.7 |
| 42.5° | 1117.9 | 1069.2 | 881.9 | 548.6 | 408.2 | 338.9 | 305.2 | 271.5 | 230.3 | 209.7 | 211.6 |
| 45°   | 1213.4 | 1157.2 | 857.6 | 488.7 | 352.0 | 305.2 | 267.8 | 224.7 | 206.0 | 192.9 | 192.9 |
| 47.5° | 1333.2 | 1245.2 | 827.6 | 423.2 | 307.1 | 275.3 | 228.4 | 202.2 | 189.1 | 177.9 | 176.0 |
| 50°   | 1475.5 | 1325.7 | 790.2 | 367.0 | 269.6 | 247.2 | 207.8 | 187.2 | 176.0 | 168.5 | 168.5 |
| 52.5° | 1625.3 | 1443.7 | 764.0 | 316.4 | 239.7 | 209.7 | 192.9 | 179.8 | 170.4 | 164.8 | 162.9 |
| 55°   | 1777.0 | 1561.6 | 745.2 | 262.1 | 211.6 | 192.9 | 189.1 | 177.9 | 174.1 | 168.5 | 164.8 |
| 57.5° | 1947.4 | 1659.0 | 741.5 | 224.7 | 189.1 | 185.4 | 192.9 | 183.5 | 177.9 | 172.3 | 166.6 |
| 60°   | 2130.9 | 1790.1 | 707.8 | 194.7 | 177.9 | 181.6 | 187.2 | 177.9 | 174.1 | 168.5 | 164.8 |
| 62.5° | 2312.5 | 1887.4 | 616.0 | 172.3 | 166.6 | 170.4 | 177.9 | 170.4 | 164.8 | 166.6 | 168.5 |
| 65°   | 2387.4 | 1894.9 | 477.5 | 155.4 | 153.5 | 155.4 | 166.6 | 164.8 | 159.2 | 170.4 | 170.4 |
| 67.5° | 2312.5 | 1827.5 | 337.0 | 140.4 | 140.4 | 149.8 | 168.5 | 172.3 | 166.6 | 181.6 | 179.8 |
| 70°   | 2142.1 | 1660.9 | 228.4 | 131.1 | 134.8 | 159.2 | 174.1 | 170.4 | 162.9 | 181.6 | 177.9 |
| 72.5° | 1818.2 | 1329.4 | 166.6 | 121.7 | 127.3 | 151.7 | 172.3 | 168.5 | 162.9 | 170.4 | 162.9 |
| 75°   | 1365.0 | 945.6  | 131.1 | 110.5 | 112.3 | 136.7 | 177.9 | 168.5 | 153.5 | 149.8 | 144.2 |
| 77.5° | 911.9  | 584.2  | 101.1 | 97.4  | 97.4  | 119.8 | 170.4 | 157.3 | 138.6 | 132.9 | 131.1 |
| 80°   | 434.4  | 234.1  | 80.5  | 82.4  | 84.3  | 103.0 | 155.4 | 140.4 | 125.5 | 118.0 | 118.0 |
| 82.5° | 138.6  | 88.0   | 67.4  | 67.4  | 67.4  | 84.3  | 129.2 | 118.0 | 108.6 | 103.0 | 93.6  |
| 85°   | 48.7   | 48.7   | 58.0  | 59.9  | 54.3  | 61.8  | 106.7 | 101.1 | 89.9  | 74.9  | 73.0  |
| 87.5° | 18.7   | 28.1   | 39.3  | 46.8  | 33.7  | 43.1  | 76.8  | 71.2  | 65.5  | 48.7  | 46.8  |
| 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)