

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: P670839

Luminaire Tested: **CCP-SA-1D-760-U-T3**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P670839  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-760-U-T3  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T3  
distribution lens  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5763.9 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

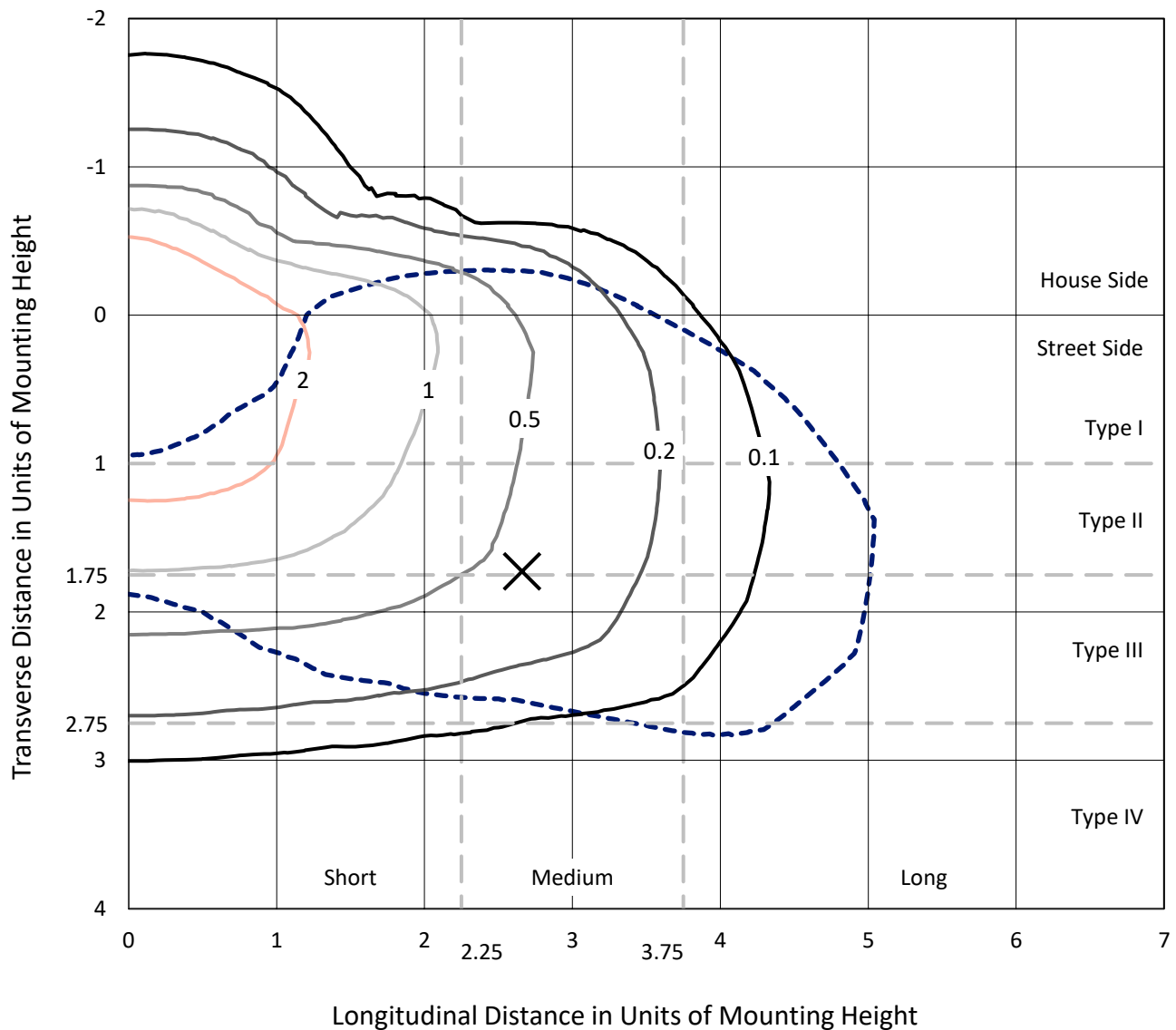
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

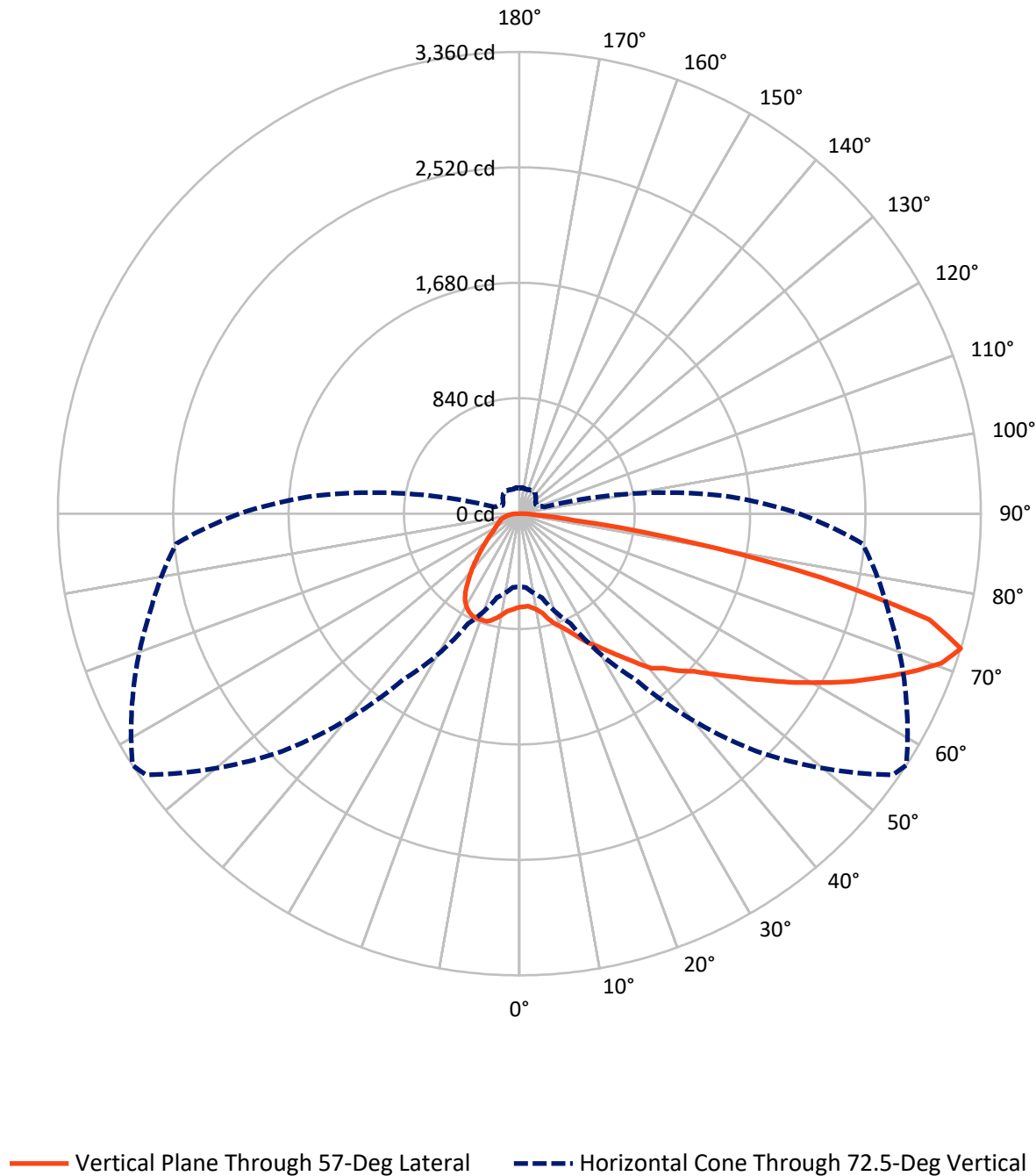
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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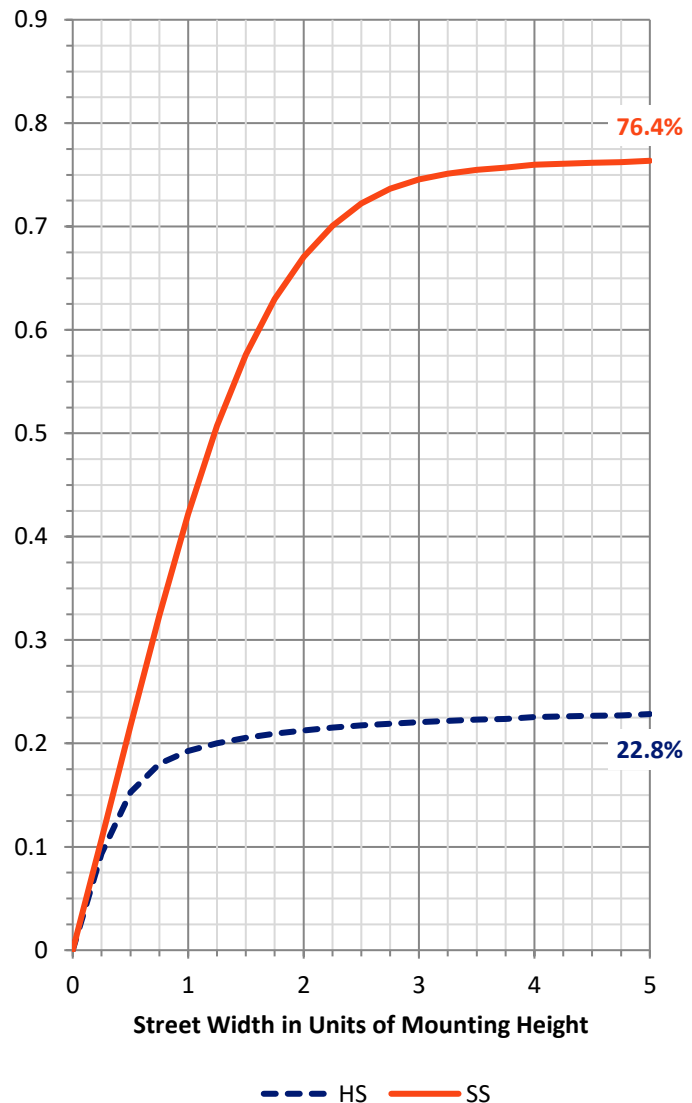
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1346.1   | 0.0    | 1346.1 |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 4417.8   | 0.0    | 4417.8 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 5763.9   | 0.0    | 5763.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.5   | 1.2       |
| 10°-20°   | 227.6  | 3.9       |
| 20°-30°   | 416.1  | 7.2       |
| 30°-40°   | 610.4  | 10.6      |
| 40°-50°   | 840.4  | 14.6      |
| 50°-60°   | 1152.5 | 20.0      |
| 60°-70°   | 1389.2 | 24.1      |
| 70°-80°   | 925.4  | 16.1      |
| 80°-90°   | 134.8  | 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°    | 5763.9 | 100.0     |
| 0°-180°   | 5763.9 | 100.0     |

**Coefficient of Utilization**



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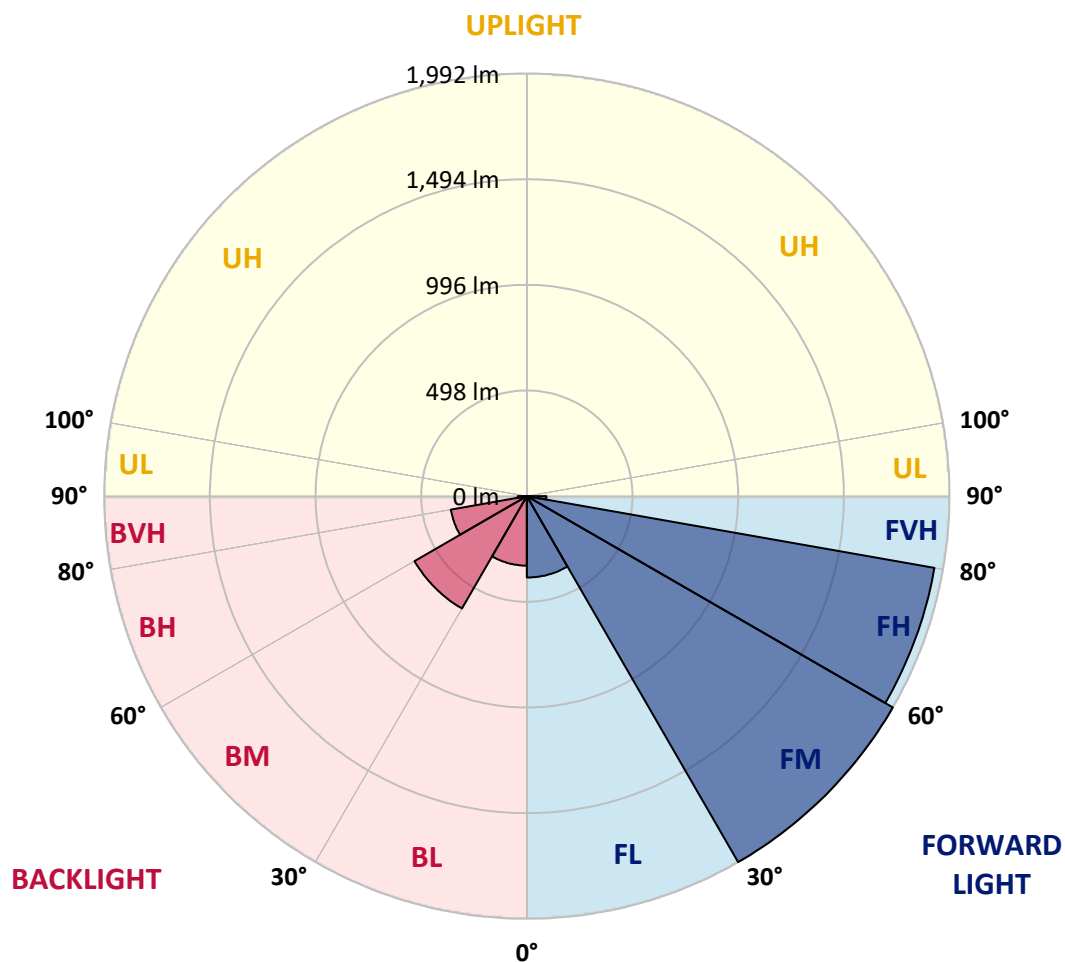
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 383.4  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 1991.9 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 1950.7 | 33.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 91.8   | 1.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 327.7  | 5.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 611.4  | 10.6      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 364.0  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 43.0   | 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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  | 680.3  |
| 2.5°  | 667.7  | 669.8  | 674.0  | 671.9  | 671.9  | 665.6  | 676.1  | 678.2  | 674.0  | 676.1  | 680.3  |
| 5°    | 667.7  | 671.9  | 678.2  | 674.0  | 676.1  | 674.0  | 669.8  | 676.1  | 676.1  | 678.2  | 684.5  |
| 7.5°  | 703.4  | 701.3  | 701.3  | 695.0  | 692.9  | 690.8  | 692.9  | 692.9  | 688.7  | 690.8  | 690.8  |
| 10°   | 743.3  | 743.3  | 739.1  | 739.1  | 734.9  | 724.4  | 713.9  | 711.8  | 705.5  | 707.6  | 707.6  |
| 12.5° | 785.3  | 789.5  | 793.7  | 781.1  | 776.9  | 760.1  | 753.8  | 741.2  | 741.2  | 737.0  | 734.9  |
| 15°   | 837.8  | 831.5  | 835.7  | 831.5  | 821.0  | 804.2  | 793.7  | 795.8  | 781.1  | 776.9  | 770.6  |
| 17.5° | 884.0  | 886.1  | 879.8  | 875.6  | 856.7  | 844.1  | 846.2  | 844.1  | 825.2  | 818.9  | 808.4  |
| 20°   | 938.6  | 936.5  | 936.5  | 923.9  | 907.1  | 890.3  | 884.0  | 881.9  | 886.1  | 873.5  | 848.3  |
| 22.5° | 995.3  | 986.9  | 986.9  | 976.4  | 953.3  | 942.8  | 938.6  | 930.2  | 934.4  | 923.9  | 886.1  |
| 25°   | 1041.5 | 1041.5 | 1056.2 | 1035.2 | 1022.6 | 1001.6 | 993.2  | 995.3  | 997.4  | 976.4  | 932.3  |
| 27.5° | 1102.4 | 1091.9 | 1106.6 | 1096.1 | 1089.8 | 1066.7 | 1056.2 | 1062.5 | 1058.3 | 1035.2 | 974.3  |
| 30°   | 1180.1 | 1182.2 | 1173.8 | 1159.1 | 1150.7 | 1133.9 | 1127.6 | 1121.3 | 1127.6 | 1098.2 | 1020.5 |
| 32.5° | 1276.6 | 1282.9 | 1261.9 | 1245.1 | 1230.5 | 1213.7 | 1201.1 | 1194.8 | 1201.1 | 1157.0 | 1056.2 |
| 35°   | 1387.9 | 1394.2 | 1377.4 | 1358.5 | 1341.7 | 1299.7 | 1289.2 | 1278.7 | 1255.6 | 1184.3 | 1089.8 |
| 37.5° | 1490.8 | 1482.4 | 1478.2 | 1478.2 | 1446.7 | 1385.8 | 1379.5 | 1373.2 | 1329.1 | 1238.8 | 1136.0 |
| 40°   | 1560.1 | 1570.6 | 1566.4 | 1562.2 | 1558.0 | 1501.3 | 1488.7 | 1478.2 | 1404.7 | 1320.7 | 1201.1 |
| 42.5° | 1637.8 | 1631.5 | 1648.3 | 1654.6 | 1639.9 | 1623.1 | 1572.7 | 1537.0 | 1471.9 | 1404.7 | 1297.6 |
| 45°   | 1730.2 | 1726.0 | 1732.3 | 1755.4 | 1734.4 | 1740.7 | 1656.7 | 1631.5 | 1549.6 | 1509.7 | 1419.4 |
| 47.5° | 1812.1 | 1822.6 | 1854.1 | 1860.4 | 1843.6 | 1873.0 | 1755.4 | 1715.5 | 1663.0 | 1631.5 | 1545.4 |
| 50°   | 1847.8 | 1860.4 | 1931.8 | 1975.9 | 1978.0 | 2024.2 | 1854.1 | 1837.3 | 1765.9 | 1778.5 | 1702.9 |
| 52.5° | 1818.4 | 1858.3 | 1944.4 | 2059.8 | 2131.2 | 2177.4 | 1984.3 | 1975.9 | 1910.8 | 1950.7 | 1875.1 |
| 55°   | 1845.7 | 1883.5 | 1940.2 | 2101.8 | 2282.4 | 2292.9 | 2164.8 | 2133.3 | 2068.2 | 2122.8 | 2053.6 |
| 57.5° | 1858.3 | 1837.3 | 1944.4 | 2148.0 | 2393.7 | 2421.0 | 2337.0 | 2313.9 | 2263.5 | 2316.0 | 2276.1 |
| 60°   | 1759.6 | 1784.8 | 1885.6 | 2135.4 | 2400.0 | 2557.5 | 2530.2 | 2496.6 | 2450.4 | 2498.7 | 2475.6 |
| 62.5° | 1648.3 | 1665.1 | 1774.3 | 2059.8 | 2435.7 | 2656.2 | 2717.1 | 2691.9 | 2626.8 | 2668.8 | 2708.7 |
| 65°   | 1507.6 | 1509.7 | 1631.5 | 1925.5 | 2366.4 | 2712.9 | 2880.8 | 2878.7 | 2832.6 | 2822.1 | 2885.0 |
| 67.5° | 1335.4 | 1352.2 | 1448.8 | 1782.7 | 2271.9 | 2775.9 | 3042.5 | 3074.0 | 2981.6 | 2899.7 | 2922.8 |
| 70°   | 1024.7 | 1041.5 | 1133.9 | 1461.4 | 2078.7 | 2757.0 | 3242.0 | 3258.8 | 3078.2 | 2870.4 | 2811.6 |
| 72.5° | 533.3  | 537.5  | 632.0  | 881.9  | 1474.0 | 2448.3 | 3315.5 | 3359.6 | 3103.4 | 2784.3 | 2507.1 |
| 75°   | 176.4  | 176.4  | 216.3  | 336.0  | 695.0  | 1566.4 | 3002.6 | 3082.4 | 2979.5 | 2570.1 | 2051.5 |
| 77.5° | 105.0  | 107.1  | 128.1  | 168.0  | 277.2  | 625.7  | 2116.5 | 2257.2 | 2437.8 | 2185.8 | 1499.2 |
| 80°   | 75.6   | 77.7   | 96.6   | 115.5  | 165.9  | 201.6  | 1062.5 | 1257.7 | 1497.1 | 1406.8 | 800.0  |
| 82.5° | 56.7   | 56.7   | 75.6   | 86.1   | 113.4  | 119.7  | 296.1  | 405.3  | 646.7  | 503.9  | 220.5  |
| 85°   | 58.8   | 58.8   | 58.8   | 60.9   | 77.7   | 69.3   | 123.9  | 132.3  | 189.0  | 165.9  | 60.9   |
| 87.5° | 21.0   | 23.1   | 58.8   | 39.9   | 39.9   | 29.4   | 48.3   | 52.5   | 67.2   | 69.3   | 23.1   |
| 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°    | 680.3  | 680.3  | 680.3 | 680.3 | 680.3 | 680.3 | 680.3 | 680.3 | 680.3 | 680.3 | 680.3 |
| 2.5°  | 682.4  | 682.4  | 684.5 | 684.5 | 688.7 | 692.9 | 699.2 | 695.0 | 695.0 | 697.1 | 695.0 |
| 5°    | 680.3  | 682.4  | 688.7 | 699.2 | 703.4 | 705.5 | 718.1 | 718.1 | 718.1 | 722.3 | 722.3 |
| 7.5°  | 688.7  | 692.9  | 703.4 | 713.9 | 716.0 | 722.3 | 739.1 | 743.3 | 753.8 | 758.0 | 760.1 |
| 10°   | 709.7  | 716.0  | 724.4 | 737.0 | 745.4 | 753.8 | 766.4 | 781.1 | 779.0 | 791.6 | 793.7 |
| 12.5° | 741.2  | 739.1  | 753.8 | 766.4 | 774.8 | 787.4 | 791.6 | 791.6 | 791.6 | 791.6 | 795.8 |
| 15°   | 766.4  | 770.6  | 783.2 | 791.6 | 802.1 | 800.0 | 791.6 | 783.2 | 785.3 | 783.2 | 783.2 |
| 17.5° | 804.2  | 804.2  | 814.7 | 816.8 | 821.0 | 800.0 | 787.4 | 787.4 | 793.7 | 793.7 | 789.5 |
| 20°   | 842.0  | 839.9  | 844.1 | 842.0 | 814.7 | 789.5 | 787.4 | 789.5 | 791.6 | 789.5 | 787.4 |
| 22.5° | 877.7  | 873.5  | 867.2 | 858.8 | 810.5 | 787.4 | 783.2 | 772.7 | 762.2 | 762.2 | 755.9 |
| 25°   | 909.2  | 905.0  | 888.2 | 863.0 | 808.4 | 774.8 | 753.8 | 728.6 | 716.0 | 709.7 | 718.1 |
| 27.5° | 938.6  | 930.2  | 907.1 | 863.0 | 789.5 | 741.2 | 701.3 | 669.8 | 659.3 | 650.9 | 659.3 |
| 30°   | 978.5  | 963.8  | 932.3 | 856.7 | 760.1 | 688.7 | 634.1 | 596.3 | 585.8 | 573.2 | 577.4 |
| 32.5° | 1014.2 | 980.6  | 953.3 | 837.8 | 722.3 | 629.9 | 566.9 | 529.1 | 510.2 | 499.7 | 508.1 |
| 35°   | 1052.0 | 1018.4 | 961.7 | 808.4 | 663.5 | 558.5 | 495.5 | 459.8 | 445.1 | 430.4 | 430.4 |
| 37.5° | 1089.8 | 1070.9 | 974.3 | 753.8 | 592.1 | 491.3 | 434.6 | 407.4 | 382.2 | 354.9 | 354.9 |
| 40°   | 1169.6 | 1144.4 | 989.0 | 690.8 | 520.7 | 426.2 | 386.4 | 350.7 | 325.5 | 287.7 | 285.6 |
| 42.5° | 1253.5 | 1199.0 | 989.0 | 615.2 | 457.7 | 380.1 | 342.3 | 304.5 | 258.3 | 235.2 | 237.3 |
| 45°   | 1360.6 | 1297.6 | 961.7 | 548.0 | 394.8 | 342.3 | 300.3 | 252.0 | 231.0 | 216.3 | 216.3 |
| 47.5° | 1495.0 | 1396.3 | 928.1 | 474.5 | 344.4 | 308.7 | 256.2 | 226.8 | 212.1 | 199.5 | 197.4 |
| 50°   | 1654.6 | 1486.6 | 886.1 | 411.5 | 302.4 | 277.2 | 233.1 | 210.0 | 197.4 | 189.0 | 189.0 |
| 52.5° | 1822.6 | 1618.9 | 856.7 | 354.9 | 268.8 | 235.2 | 216.3 | 201.6 | 191.1 | 184.8 | 182.7 |
| 55°   | 1992.7 | 1751.2 | 835.7 | 294.0 | 237.3 | 216.3 | 212.1 | 199.5 | 195.3 | 189.0 | 184.8 |
| 57.5° | 2183.7 | 1860.4 | 831.5 | 252.0 | 212.1 | 207.9 | 216.3 | 205.8 | 199.5 | 193.2 | 186.9 |
| 60°   | 2389.5 | 2007.4 | 793.7 | 218.4 | 199.5 | 203.7 | 210.0 | 199.5 | 195.3 | 189.0 | 184.8 |
| 62.5° | 2593.2 | 2116.5 | 690.8 | 193.2 | 186.9 | 191.1 | 199.5 | 191.1 | 184.8 | 186.9 | 189.0 |
| 65°   | 2677.2 | 2124.9 | 535.4 | 174.3 | 172.2 | 174.3 | 186.9 | 184.8 | 178.5 | 191.1 | 191.1 |
| 67.5° | 2593.2 | 2049.4 | 378.0 | 157.5 | 157.5 | 168.0 | 189.0 | 193.2 | 186.9 | 203.7 | 201.6 |
| 70°   | 2402.1 | 1862.5 | 256.2 | 147.0 | 151.2 | 178.5 | 195.3 | 191.1 | 182.7 | 203.7 | 199.5 |
| 72.5° | 2038.9 | 1490.8 | 186.9 | 136.5 | 142.8 | 170.1 | 193.2 | 189.0 | 182.7 | 191.1 | 182.7 |
| 75°   | 1530.7 | 1060.4 | 147.0 | 123.9 | 126.0 | 153.3 | 199.5 | 189.0 | 172.2 | 168.0 | 161.7 |
| 77.5° | 1022.6 | 655.1  | 113.4 | 109.2 | 109.2 | 134.4 | 191.1 | 176.4 | 155.4 | 149.1 | 147.0 |
| 80°   | 487.1  | 262.5  | 90.3  | 92.4  | 94.5  | 115.5 | 174.3 | 157.5 | 140.7 | 132.3 | 132.3 |
| 82.5° | 155.4  | 98.7   | 75.6  | 75.6  | 75.6  | 94.5  | 144.9 | 132.3 | 121.8 | 115.5 | 105.0 |
| 85°   | 54.6   | 54.6   | 65.1  | 67.2  | 60.9  | 69.3  | 119.7 | 113.4 | 100.8 | 84.0  | 81.9  |
| 87.5° | 21.0   | 31.5   | 44.1  | 52.5  | 37.8  | 48.3  | 86.1  | 79.8  | 73.5  | 54.6  | 52.5  |
| 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)