

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: P671328

Luminaire Tested: **CCP-SA-1F-850-U-SL2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671328  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-850-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ SL2  
distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6475 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

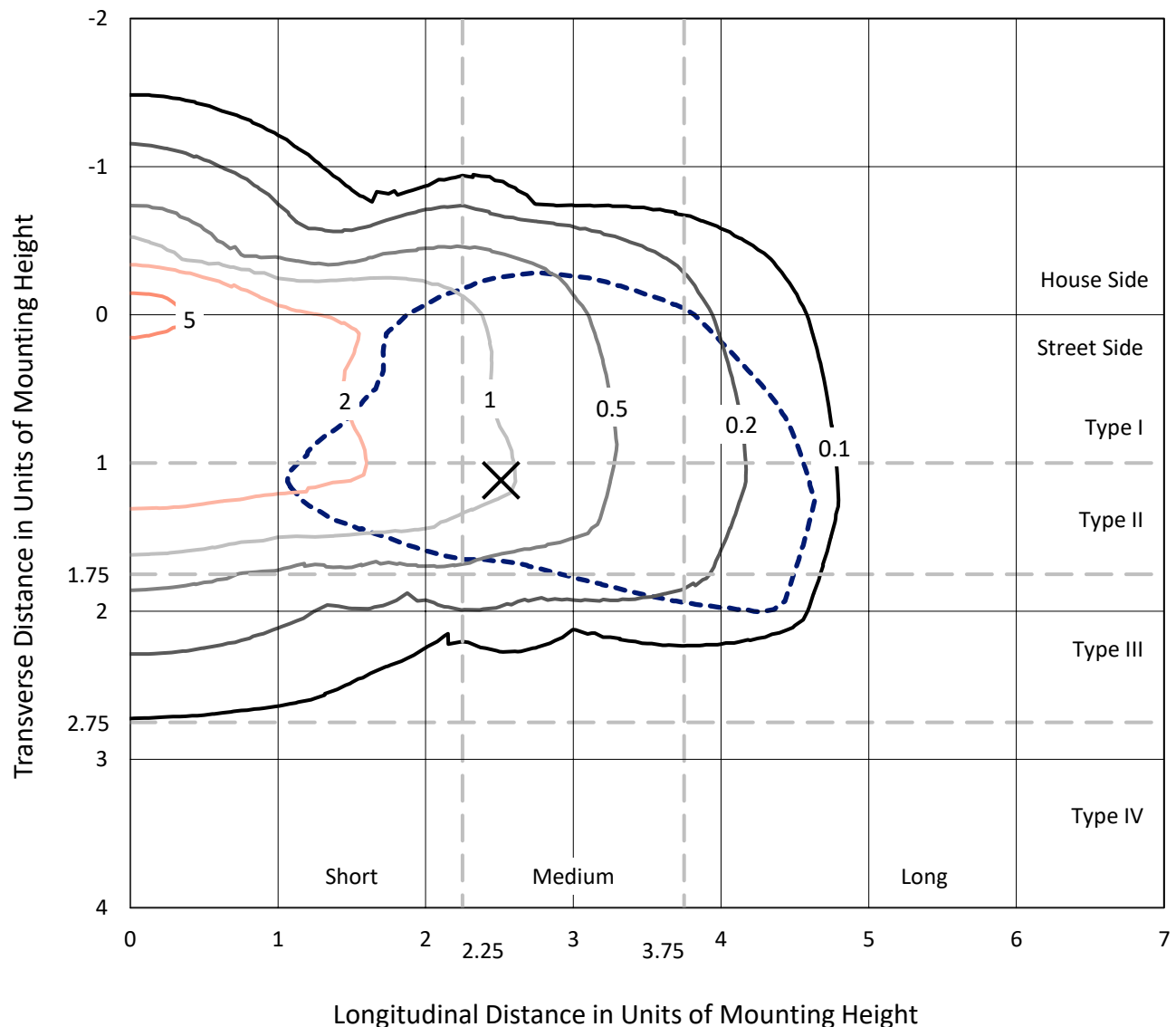
Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

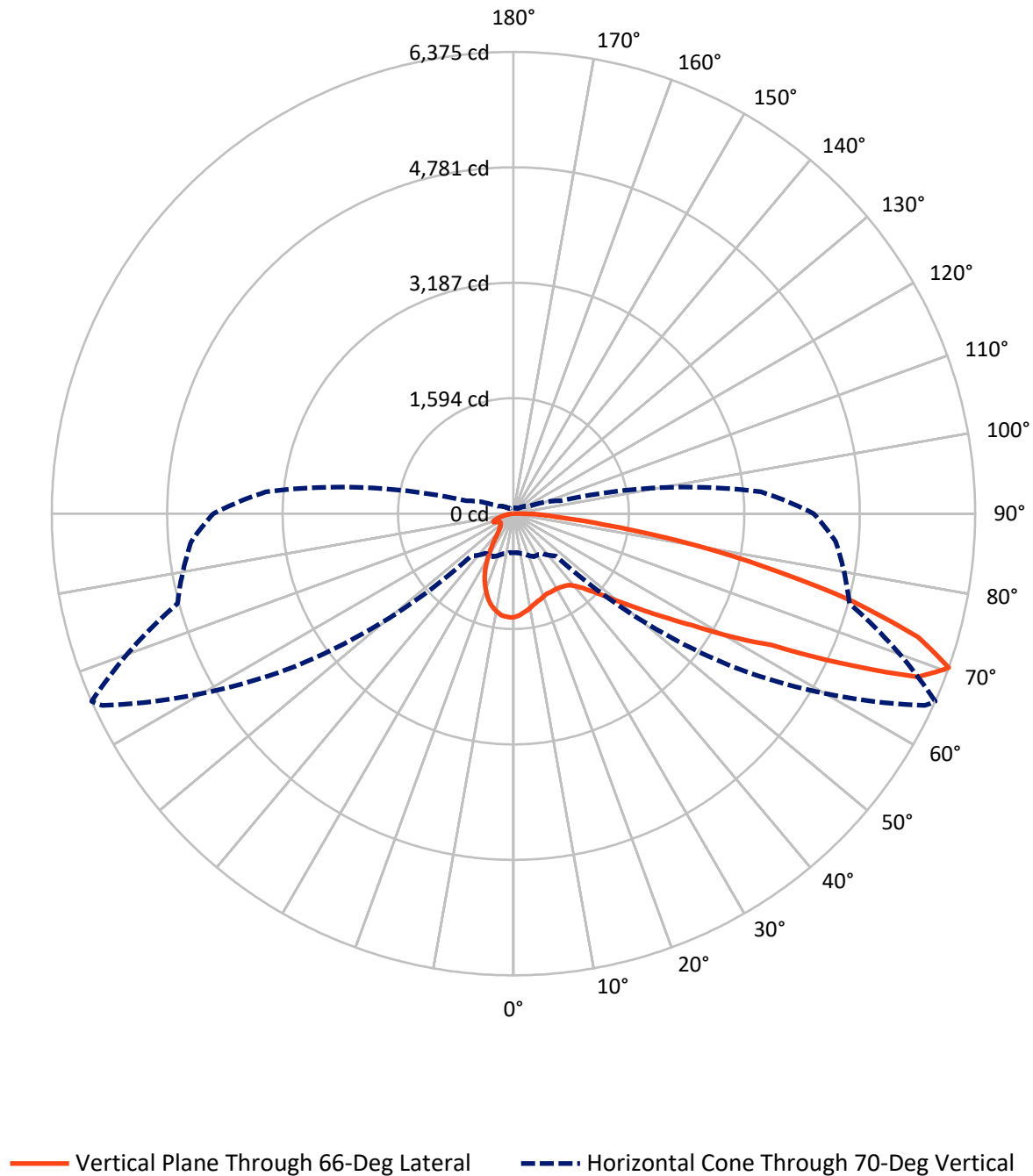
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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    | 1325.3   | 0.0    | 1325.3 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 5149.7   | 0.0    | 5149.7 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 6475.0   | 0.0    | 6475.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 126.5  | 2.0       |
| 10°-20°   | 311.4  | 4.8       |
| 20°-30°   | 427.6  | 6.6       |
| 30°-40°   | 573.4  | 8.9       |
| 40°-50°   | 831.9  | 12.8      |
| 50°-60°   | 1264.5 | 19.5      |
| 60°-70°   | 1561.7 | 24.1      |
| 70°-80°   | 1161.4 | 17.9      |
| 80°-90°   | 216.6  | 3.3       |
| 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°    | 6475.0 | 100.0     |
| 0°-180°   | 6475.0 | 100.0     |

**Coefficient of Utilization**



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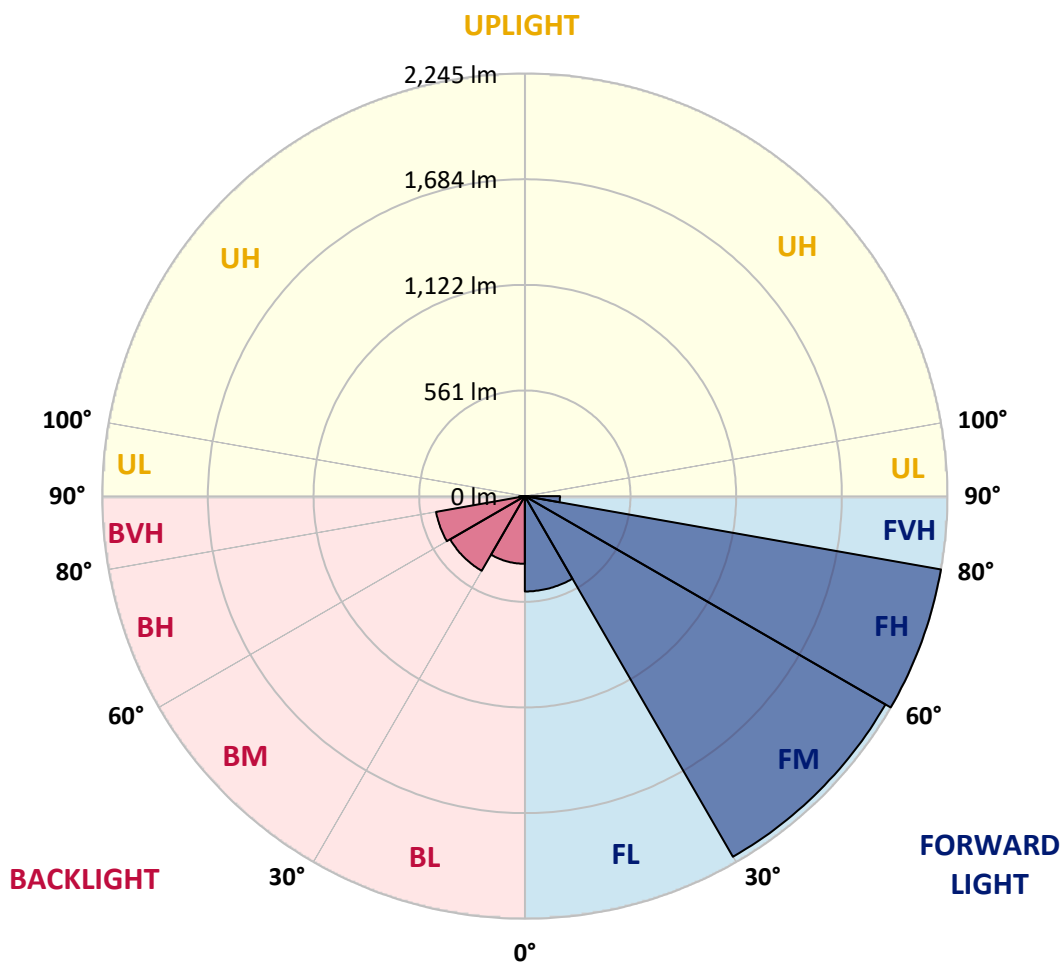
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 506.3  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 2212.0 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 2244.7 | 34.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 186.7  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 359.2  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 457.8  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 478.4  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 29.9   | 0.5       |                         |      | 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°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 |
| 2.5°  | 1360.7 | 1367.9 | 1370.3 | 1375.1 | 1387.2 | 1396.8 | 1411.3 | 1418.5 | 1411.3 | 1420.9 | 1420.9 |
| 5°    | 1266.8 | 1257.1 | 1281.2 | 1290.8 | 1305.3 | 1324.6 | 1358.3 | 1384.8 | 1377.5 | 1406.4 | 1430.5 |
| 7.5°  | 1187.3 | 1187.3 | 1194.5 | 1216.2 | 1233.1 | 1262.0 | 1298.1 | 1339.0 | 1351.1 | 1389.6 | 1425.7 |
| 10°   | 1115.0 | 1124.7 | 1124.7 | 1158.4 | 1168.0 | 1201.7 | 1262.0 | 1312.5 | 1314.9 | 1380.0 | 1430.5 |
| 12.5° | 1076.5 | 1071.7 | 1095.8 | 1105.4 | 1134.3 | 1168.0 | 1216.2 | 1278.8 | 1281.2 | 1351.1 | 1420.9 |
| 15°   | 1045.2 | 1050.0 | 1062.1 | 1086.1 | 1112.6 | 1139.1 | 1184.9 | 1242.7 | 1254.7 | 1336.6 | 1416.1 |
| 17.5° | 1047.6 | 1050.0 | 1050.0 | 1066.9 | 1088.6 | 1119.9 | 1163.2 | 1230.6 | 1237.9 | 1317.3 | 1408.9 |
| 20°   | 1062.1 | 1052.4 | 1059.7 | 1066.9 | 1081.3 | 1110.2 | 1146.4 | 1204.2 | 1211.4 | 1314.9 | 1425.7 |
| 22.5° | 1093.4 | 1086.1 | 1083.7 | 1081.3 | 1078.9 | 1095.8 | 1141.5 | 1189.7 | 1196.9 | 1302.9 | 1432.9 |
| 25°   | 1143.9 | 1141.5 | 1124.7 | 1107.8 | 1095.8 | 1095.8 | 1131.9 | 1201.7 | 1199.3 | 1302.9 | 1437.8 |
| 27.5° | 1204.2 | 1204.2 | 1201.7 | 1170.4 | 1134.3 | 1115.0 | 1139.1 | 1196.9 | 1194.5 | 1302.9 | 1449.8 |
| 30°   | 1286.0 | 1286.0 | 1278.8 | 1249.9 | 1184.9 | 1129.5 | 1143.9 | 1192.1 | 1199.3 | 1293.3 | 1440.2 |
| 32.5° | 1375.1 | 1372.7 | 1380.0 | 1353.5 | 1286.0 | 1196.9 | 1172.8 | 1201.7 | 1209.0 | 1302.9 | 1442.6 |
| 35°   | 1440.2 | 1454.6 | 1478.7 | 1454.6 | 1387.2 | 1266.8 | 1213.8 | 1221.0 | 1225.8 | 1305.3 | 1452.2 |
| 37.5° | 1514.8 | 1531.7 | 1565.4 | 1584.7 | 1512.4 | 1372.7 | 1278.8 | 1252.3 | 1252.3 | 1336.6 | 1454.6 |
| 40°   | 1623.2 | 1606.3 | 1664.1 | 1697.9 | 1669.0 | 1502.8 | 1380.0 | 1310.1 | 1312.5 | 1377.5 | 1485.9 |
| 42.5° | 1702.7 | 1719.5 | 1779.7 | 1839.9 | 1803.8 | 1661.7 | 1490.7 | 1404.0 | 1404.0 | 1437.8 | 1534.1 |
| 45°   | 1791.8 | 1811.0 | 1895.3 | 1967.6 | 1994.1 | 1852.0 | 1642.5 | 1538.9 | 1534.1 | 1555.8 | 1620.8 |
| 47.5° | 1890.5 | 1917.0 | 2013.3 | 2097.6 | 2167.5 | 2049.5 | 1837.5 | 1702.7 | 1700.3 | 1717.1 | 1765.3 |
| 50°   | 2003.7 | 2013.3 | 2092.8 | 2246.9 | 2386.6 | 2312.0 | 2076.0 | 1933.9 | 1921.8 | 1929.0 | 1994.1 |
| 52.5° | 2037.4 | 2030.2 | 2121.7 | 2287.9 | 2543.2 | 2632.3 | 2401.1 | 2196.4 | 2191.6 | 2174.7 | 2259.0 |
| 55°   | 1914.6 | 1938.7 | 2027.8 | 2239.7 | 2670.8 | 3010.4 | 2757.5 | 2555.2 | 2511.9 | 2466.1 | 2567.2 |
| 57.5° | 1669.0 | 1671.4 | 1772.5 | 2023.0 | 2572.1 | 3323.5 | 3362.0 | 2906.8 | 2909.2 | 2786.4 | 2902.0 |
| 60°   | 1298.1 | 1290.8 | 1370.3 | 1596.7 | 2290.3 | 3419.8 | 4021.9 | 3468.0 | 3443.9 | 3106.7 | 3212.7 |
| 62.5° | 936.8  | 922.4  | 939.2  | 1071.7 | 1712.3 | 3272.9 | 4669.7 | 4096.5 | 3995.4 | 3434.2 | 3516.1 |
| 65°   | 770.7  | 777.9  | 785.1  | 792.3  | 960.9  | 2699.7 | 4869.6 | 5122.5 | 4987.6 | 3817.2 | 3850.9 |
| 67.5° | 638.2  | 643.0  | 674.3  | 717.7  | 712.9  | 1594.3 | 4638.4 | 6071.3 | 6020.8 | 4291.6 | 4139.9 |
| 70°   | 541.9  | 539.5  | 575.6  | 655.1  | 667.1  | 828.5  | 3672.7 | 6266.4 | 6374.8 | 4802.2 | 4467.4 |
| 72.5° | 433.5  | 438.3  | 469.6  | 575.6  | 655.1  | 698.4  | 2114.5 | 5847.4 | 5844.9 | 5194.7 | 4291.6 |
| 75°   | 310.7  | 310.7  | 354.0  | 476.8  | 633.4  | 691.2  | 1170.4 | 4746.8 | 4835.9 | 4881.6 | 3723.2 |
| 77.5° | 204.7  | 214.3  | 248.1  | 356.4  | 594.9  | 676.7  | 741.8  | 3451.1 | 3561.9 | 3651.0 | 2849.0 |
| 80°   | 139.7  | 144.5  | 166.2  | 248.1  | 503.3  | 681.5  | 606.9  | 2321.6 | 2365.0 | 2015.7 | 1156.0 |
| 82.5° | 84.3   | 86.7   | 110.8  | 173.4  | 361.2  | 647.8  | 570.8  | 1281.2 | 1254.7 | 609.3  | 332.3  |
| 85°   | 45.8   | 48.2   | 69.8   | 115.6  | 238.4  | 566.0  | 561.1  | 628.6  | 585.2  | 224.0  | 139.7  |
| 87.5° | 16.9   | 16.9   | 31.3   | 57.8   | 137.3  | 387.7  | 488.9  | 373.3  | 349.2  | 113.2  | 65.0   |
| 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°    | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 | 1430.5 |
| 2.5°  | 1432.9 | 1432.9 | 1432.9 | 1432.9 | 1430.5 | 1420.9 | 1428.1 | 1425.7 | 1411.3 | 1413.7 | 1404.0 |
| 5°    | 1428.1 | 1440.2 | 1432.9 | 1423.3 | 1411.3 | 1382.4 | 1372.7 | 1365.5 | 1346.2 | 1339.0 | 1346.2 |
| 7.5°  | 1440.2 | 1430.5 | 1425.7 | 1408.9 | 1360.7 | 1334.2 | 1300.5 | 1259.5 | 1230.6 | 1223.4 | 1230.6 |
| 10°   | 1437.8 | 1437.8 | 1416.1 | 1367.9 | 1322.2 | 1245.1 | 1201.7 | 1129.5 | 1088.6 | 1076.5 | 1078.9 |
| 12.5° | 1428.1 | 1435.3 | 1401.6 | 1324.6 | 1237.9 | 1143.9 | 1064.5 | 987.4  | 915.2  | 886.3  | 881.4  |
| 15°   | 1437.8 | 1430.5 | 1370.3 | 1271.6 | 1151.2 | 1021.1 | 905.5  | 792.3  | 724.9  | 681.5  | 671.9  |
| 17.5° | 1423.3 | 1416.1 | 1329.4 | 1199.3 | 1038.0 | 871.8  | 727.3  | 604.5  | 537.1  | 520.2  | 520.2  |
| 20°   | 1440.2 | 1394.4 | 1281.2 | 1112.6 | 920.0  | 708.0  | 544.3  | 452.8  | 435.9  | 435.9  | 440.7  |
| 22.5° | 1437.8 | 1389.6 | 1240.3 | 1028.3 | 777.9  | 534.6  | 404.6  | 378.1  | 380.5  | 399.8  | 397.4  |
| 25°   | 1423.3 | 1380.0 | 1182.5 | 934.4  | 628.6  | 402.2  | 334.8  | 327.5  | 344.4  | 366.1  | 363.7  |
| 27.5° | 1420.9 | 1353.5 | 1129.5 | 823.6  | 479.3  | 317.9  | 291.4  | 291.4  | 308.3  | 327.5  | 325.1  |
| 30°   | 1406.4 | 1331.8 | 1064.5 | 698.4  | 361.2  | 277.0  | 267.3  | 267.3  | 274.5  | 284.2  | 284.2  |
| 32.5° | 1404.0 | 1302.9 | 992.2  | 568.4  | 289.0  | 250.5  | 245.6  | 248.1  | 248.1  | 252.9  | 250.5  |
| 35°   | 1384.8 | 1264.4 | 917.6  | 440.7  | 250.5  | 236.0  | 231.2  | 228.8  | 228.8  | 226.4  | 226.4  |
| 37.5° | 1377.5 | 1240.3 | 840.5  | 342.0  | 233.6  | 224.0  | 219.2  | 211.9  | 209.5  | 209.5  | 207.1  |
| 40°   | 1384.8 | 1216.2 | 765.8  | 277.0  | 219.2  | 214.3  | 207.1  | 197.5  | 195.1  | 195.1  | 195.1  |
| 42.5° | 1411.3 | 1213.8 | 688.8  | 240.8  | 211.9  | 204.7  | 195.1  | 185.4  | 183.0  | 185.4  | 183.0  |
| 45°   | 1471.5 | 1233.1 | 614.1  | 224.0  | 202.3  | 195.1  | 183.0  | 175.8  | 173.4  | 175.8  | 175.8  |
| 47.5° | 1570.2 | 1286.0 | 546.7  | 214.3  | 195.1  | 185.4  | 173.4  | 166.2  | 166.2  | 166.2  | 166.2  |
| 50°   | 1734.0 | 1387.2 | 481.7  | 207.1  | 190.3  | 178.2  | 166.2  | 156.5  | 154.1  | 154.1  | 156.5  |
| 52.5° | 1979.6 | 1560.6 | 428.7  | 202.3  | 183.0  | 168.6  | 156.5  | 149.3  | 144.5  | 142.1  | 144.5  |
| 55°   | 2275.8 | 1813.5 | 411.8  | 197.5  | 173.4  | 161.4  | 149.3  | 139.7  | 134.9  | 134.9  | 132.5  |
| 57.5° | 2593.7 | 2092.8 | 440.7  | 192.7  | 166.2  | 151.7  | 139.7  | 130.0  | 125.2  | 122.8  | 122.8  |
| 60°   | 2938.1 | 2422.8 | 546.7  | 190.3  | 158.9  | 142.1  | 130.0  | 122.8  | 115.6  | 113.2  | 113.2  |
| 62.5° | 3251.2 | 2721.4 | 736.9  | 187.8  | 154.1  | 132.5  | 120.4  | 110.8  | 106.0  | 103.6  | 103.6  |
| 65°   | 3607.6 | 3053.7 | 922.4  | 197.5  | 151.7  | 125.2  | 110.8  | 101.1  | 96.3   | 93.9   | 93.9   |
| 67.5° | 3918.3 | 3342.7 | 1030.8 | 221.6  | 158.9  | 115.6  | 98.7   | 91.5   | 89.1   | 86.7   | 86.7   |
| 70°   | 4144.7 | 3431.8 | 691.2  | 243.2  | 171.0  | 108.4  | 89.1   | 84.3   | 79.5   | 79.5   | 79.5   |
| 72.5° | 3841.2 | 3063.4 | 409.4  | 228.8  | 161.4  | 101.1  | 79.5   | 74.7   | 72.2   | 72.2   | 69.8   |
| 75°   | 3284.9 | 2608.2 | 315.5  | 185.4  | 130.0  | 86.7   | 69.8   | 65.0   | 62.6   | 62.6   | 60.2   |
| 77.5° | 2425.2 | 1868.8 | 233.6  | 146.9  | 101.1  | 69.8   | 60.2   | 57.8   | 55.4   | 53.0   | 53.0   |
| 80°   | 948.9  | 818.8  | 158.9  | 108.4  | 74.7   | 55.4   | 50.6   | 48.2   | 45.8   | 43.3   | 43.3   |
| 82.5° | 293.8  | 248.1  | 91.5   | 72.2   | 53.0   | 43.3   | 40.9   | 38.5   | 36.1   | 33.7   | 33.7   |
| 85°   | 127.6  | 122.8  | 60.2   | 45.8   | 36.1   | 28.9   | 28.9   | 26.5   | 24.1   | 21.7   | 21.7   |
| 87.5° | 62.6   | 60.2   | 33.7   | 21.7   | 19.3   | 14.4   | 14.4   | 12.0   | 9.6    | 9.6    | 9.6    |
| 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)