

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: P675703

Luminaire Tested: **CCW-SA-1F-740-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675703  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-740-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
SL4 distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

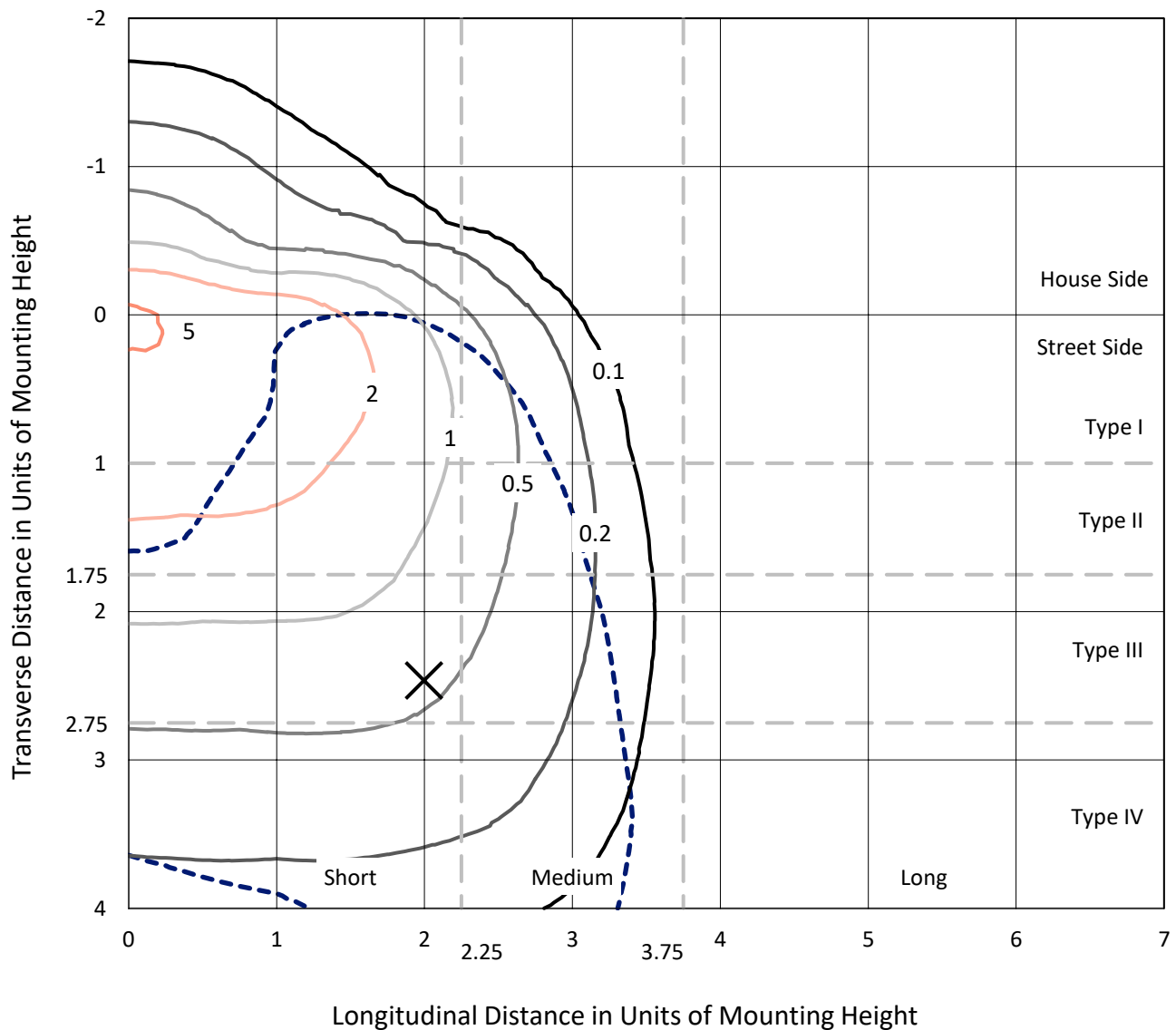
Lumens per Lamp: N/A  
Luminaire Lumens: 7347.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

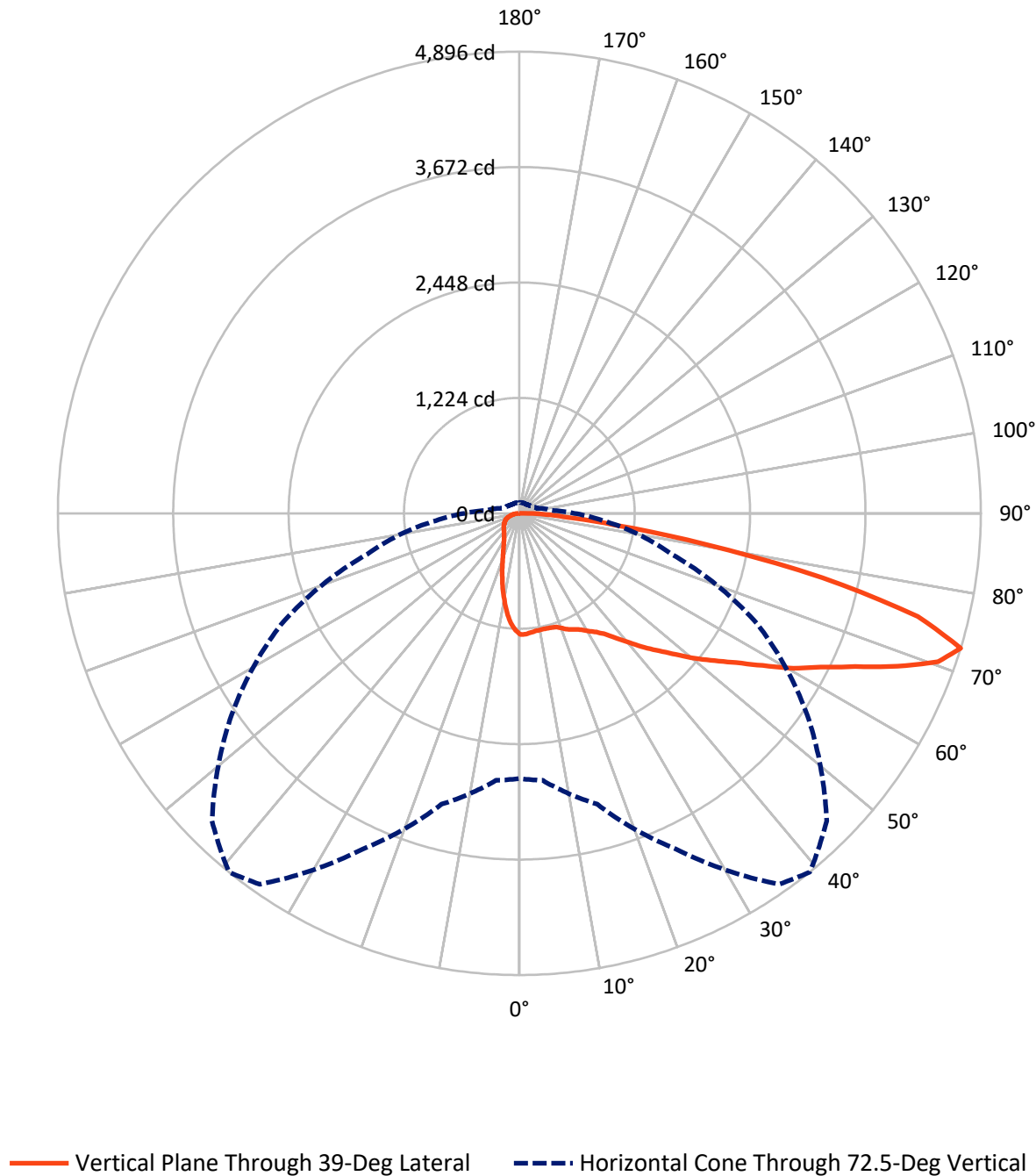
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1091.9   | 0.0    | 1091.9 |
|                    | % Fixture | 14.9     | 0.0    | 14.9   |
| <b>Street Side</b> | Lumens    | 6255.2   | 0.0    | 6255.2 |
|                    | % Fixture | 85.1     | 0.0    | 85.1   |
| <b>Total</b>       | Lumens    | 7347.1   | 0.0    | 7347.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.6  | 1.5       |
| 10°-20°   | 290.0  | 3.9       |
| 20°-30°   | 441.9  | 6.0       |
| 30°-40°   | 646.4  | 8.8       |
| 40°-50°   | 989.6  | 13.5      |
| 50°-60°   | 1451.4 | 19.8      |
| 60°-70°   | 1851.1 | 25.2      |
| 70°-80°   | 1337.4 | 18.2      |
| 80°-90°   | 225.6  | 3.1       |
| 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°    | 7347.1 | 100.0     |
| 0°-180°   | 7347.1 | 100.0     |

**Coefficient of Utilization**



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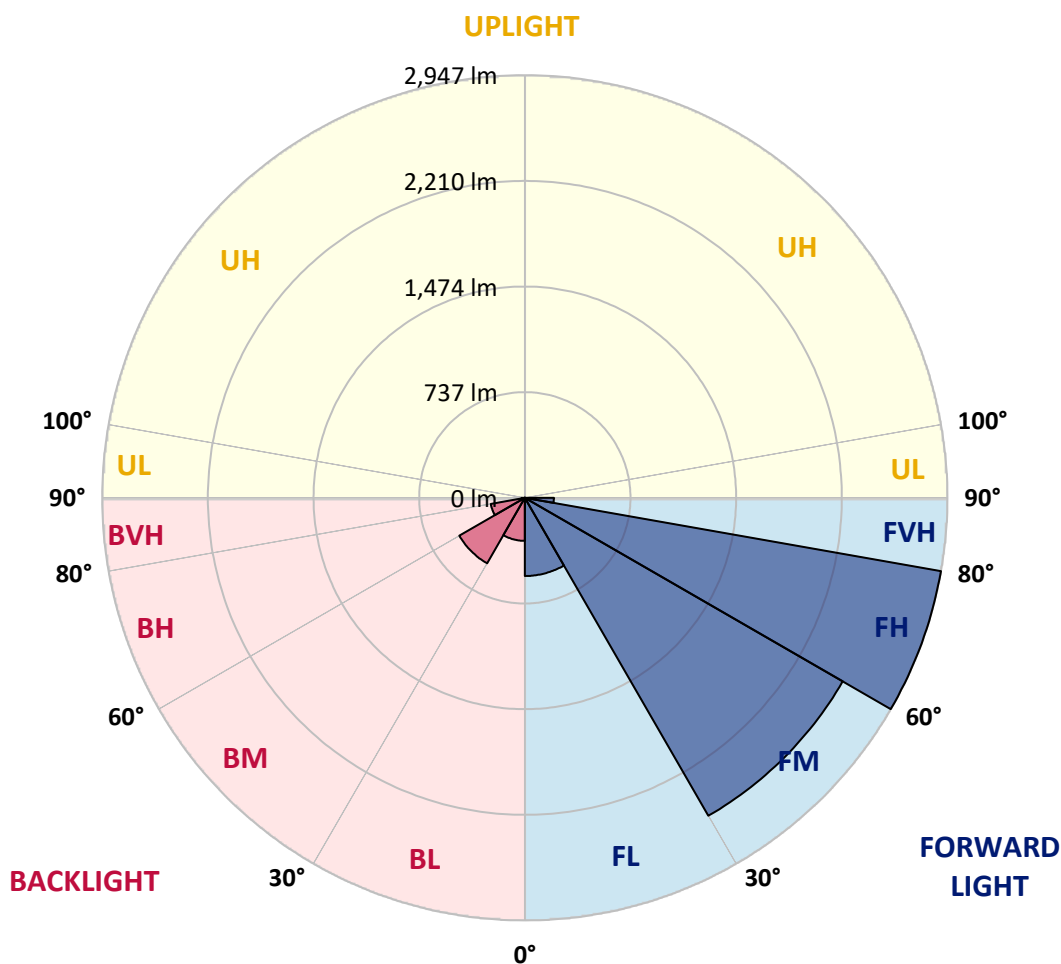
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 545.3  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2559.9 | 34.8      |                         |      |         |
| FH   | (60°-80°)   | 2947.2 | 40.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 202.7  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 300.3  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 527.5  | 7.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 241.3  | 3.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 22.9   | 0.3       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 |
| 2.5°  | 1305.4 | 1308.2 | 1302.6 | 1297.1 | 1294.4 | 1283.3 | 1294.4 | 1288.8 | 1283.3 | 1283.3 | 1283.3 |
| 5°    | 1288.8 | 1291.6 | 1291.6 | 1286.1 | 1288.8 | 1269.5 | 1266.8 | 1269.5 | 1261.2 | 1255.7 | 1253.0 |
| 7.5°  | 1264.0 | 1269.5 | 1280.6 | 1277.8 | 1266.8 | 1258.5 | 1261.2 | 1258.5 | 1244.7 | 1236.4 | 1214.3 |
| 10°   | 1244.7 | 1250.2 | 1255.7 | 1261.2 | 1258.5 | 1255.7 | 1253.0 | 1241.9 | 1239.2 | 1219.8 | 1197.8 |
| 12.5° | 1225.4 | 1225.4 | 1228.1 | 1250.2 | 1253.0 | 1253.0 | 1236.4 | 1236.4 | 1228.1 | 1225.4 | 1192.2 |
| 15°   | 1206.0 | 1214.3 | 1236.4 | 1241.9 | 1253.0 | 1258.5 | 1250.2 | 1250.2 | 1236.4 | 1217.1 | 1192.2 |
| 17.5° | 1211.6 | 1225.4 | 1247.4 | 1261.2 | 1266.8 | 1266.8 | 1277.8 | 1269.5 | 1250.2 | 1239.2 | 1214.3 |
| 20°   | 1239.2 | 1241.9 | 1269.5 | 1294.4 | 1299.9 | 1299.9 | 1288.8 | 1280.6 | 1266.8 | 1247.4 | 1214.3 |
| 22.5° | 1255.7 | 1275.0 | 1308.2 | 1322.0 | 1338.5 | 1338.5 | 1324.7 | 1305.4 | 1286.1 | 1266.8 | 1230.9 |
| 25°   | 1327.5 | 1330.2 | 1344.0 | 1366.1 | 1374.4 | 1363.3 | 1349.5 | 1327.5 | 1302.6 | 1283.3 | 1250.2 |
| 27.5° | 1377.1 | 1390.9 | 1407.5 | 1418.5 | 1404.7 | 1396.5 | 1385.4 | 1360.6 | 1341.3 | 1324.7 | 1277.8 |
| 30°   | 1468.2 | 1451.7 | 1462.7 | 1468.2 | 1443.4 | 1448.9 | 1418.5 | 1396.5 | 1374.4 | 1374.4 | 1322.0 |
| 32.5° | 1523.4 | 1537.2 | 1526.2 | 1523.4 | 1504.1 | 1501.3 | 1482.0 | 1457.2 | 1443.4 | 1459.9 | 1388.2 |
| 35°   | 1620.0 | 1611.7 | 1611.7 | 1609.0 | 1586.9 | 1573.1 | 1573.1 | 1528.9 | 1542.7 | 1578.6 | 1490.3 |
| 37.5° | 1669.7 | 1666.9 | 1683.5 | 1697.3 | 1675.2 | 1683.5 | 1675.2 | 1655.9 | 1661.4 | 1724.9 | 1617.3 |
| 40°   | 1719.4 | 1738.7 | 1771.8 | 1777.3 | 1791.1 | 1802.2 | 1796.6 | 1793.9 | 1816.0 | 1918.1 | 1788.4 |
| 42.5° | 1766.3 | 1782.8 | 1832.5 | 1876.7 | 1909.8 | 1945.7 | 1948.4 | 1948.4 | 2020.2 | 2166.5 | 1995.3 |
| 45°   | 1827.0 | 1840.8 | 1909.8 | 1998.1 | 2053.3 | 2078.1 | 2100.2 | 2125.1 | 2221.6 | 2395.5 | 2216.1 |
| 47.5° | 1909.8 | 1920.8 | 2003.6 | 2114.0 | 2221.6 | 2235.4 | 2279.6 | 2307.2 | 2453.5 | 2630.1 | 2442.4 |
| 50°   | 2028.5 | 2020.2 | 2086.4 | 2246.5 | 2351.4 | 2417.6 | 2481.1 | 2530.7 | 2674.3 | 2867.4 | 2619.1 |
| 52.5° | 2125.1 | 2125.1 | 2174.7 | 2387.2 | 2530.7 | 2594.2 | 2660.5 | 2729.5 | 2895.0 | 3104.8 | 2762.6 |
| 55°   | 2290.6 | 2274.1 | 2304.4 | 2525.2 | 2732.2 | 2792.9 | 2919.9 | 2977.8 | 3137.9 | 3281.4 | 2884.0 |
| 57.5° | 2403.8 | 2412.1 | 2448.0 | 2707.4 | 2969.6 | 3044.1 | 3171.0 | 3212.4 | 3353.2 | 3466.3 | 2972.3 |
| 60°   | 2552.8 | 2525.2 | 2602.5 | 2908.8 | 3231.7 | 3336.6 | 3441.5 | 3466.3 | 3571.2 | 3585.0 | 3013.7 |
| 62.5° | 2696.3 | 2690.8 | 2757.1 | 3110.3 | 3513.2 | 3587.8 | 3695.4 | 3723.0 | 3767.1 | 3678.8 | 2955.8 |
| 65°   | 2784.7 | 2820.5 | 2944.7 | 3331.1 | 3833.4 | 3916.2 | 4023.8 | 3968.6 | 3918.9 | 3596.0 | 2671.5 |
| 67.5° | 2906.1 | 2922.6 | 3113.1 | 3571.2 | 4203.2 | 4327.4 | 4421.2 | 4203.2 | 3833.4 | 3256.6 | 2249.2 |
| 70°   | 2933.7 | 2977.8 | 3226.2 | 3822.3 | 4584.0 | 4711.0 | 4716.5 | 4123.2 | 3521.5 | 2649.4 | 1631.0 |
| 72.5° | 2812.2 | 2842.6 | 3193.1 | 3927.2 | 4802.1 | 4895.9 | 4611.6 | 3728.5 | 2790.2 | 1669.7 | 888.7  |
| 75°   | 2365.2 | 2450.7 | 2779.1 | 3604.3 | 4401.9 | 4366.0 | 3907.9 | 2845.4 | 1675.2 | 739.6  | 375.3  |
| 77.5° | 1647.6 | 1650.4 | 1992.6 | 2621.8 | 3295.2 | 3286.9 | 2787.4 | 1650.4 | 717.6  | 298.1  | 220.8  |
| 80°   | 731.4  | 783.8  | 990.8  | 1413.0 | 2000.9 | 2000.9 | 1625.5 | 819.7  | 358.8  | 193.2  | 151.8  |
| 82.5° | 430.5  | 447.1  | 529.9  | 659.6  | 974.2  | 1026.7 | 778.3  | 546.4  | 245.6  | 121.4  | 93.8   |
| 85°   | 317.4  | 345.0  | 394.7  | 397.4  | 460.9  | 469.2  | 430.5  | 474.7  | 168.3  | 66.2   | 77.3   |
| 87.5° | 237.3  | 253.9  | 314.6  | 262.2  | 245.6  | 231.8  | 264.9  | 485.7  | 63.5   | 33.1   | 24.8   |
| 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°    | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 | 1286.1 |
| 2.5°  | 1272.3 | 1272.3 | 1266.8 | 1255.7 | 1255.7 | 1233.6 | 1239.2 | 1244.7 | 1230.9 | 1230.9 | 1233.6 |
| 5°    | 1253.0 | 1241.9 | 1228.1 | 1211.6 | 1200.5 | 1170.2 | 1164.6 | 1145.3 | 1142.6 | 1137.0 | 1128.8 |
| 7.5°  | 1214.3 | 1197.8 | 1172.9 | 1148.1 | 1112.2 | 1084.6 | 1051.5 | 1023.9 | 1012.9 | 1004.6 | 1001.8 |
| 10°   | 1178.4 | 1175.7 | 1134.3 | 1084.6 | 1029.4 | 977.0  | 927.3  | 891.4  | 869.3  | 855.5  | 852.8  |
| 12.5° | 1178.4 | 1156.4 | 1098.4 | 1029.4 | 949.4  | 872.1  | 808.6  | 758.9  | 728.6  | 706.5  | 698.2  |
| 15°   | 1172.9 | 1150.8 | 1073.6 | 968.7  | 877.6  | 772.7  | 684.4  | 632.0  | 587.8  | 565.8  | 568.5  |
| 17.5° | 1178.4 | 1145.3 | 1037.7 | 924.5  | 797.6  | 684.4  | 579.6  | 516.1  | 471.9  | 455.4  | 452.6  |
| 20°   | 1181.2 | 1139.8 | 1010.1 | 863.8  | 714.8  | 587.8  | 488.5  | 427.8  | 394.7  | 383.6  | 383.6  |
| 22.5° | 1175.7 | 1123.2 | 968.7  | 792.1  | 643.0  | 507.8  | 425.0  | 372.6  | 350.5  | 336.7  | 342.2  |
| 25°   | 1200.5 | 1120.5 | 930.1  | 731.4  | 560.2  | 441.6  | 378.1  | 339.5  | 325.7  | 317.4  | 320.1  |
| 27.5° | 1206.0 | 1120.5 | 899.7  | 662.4  | 488.5  | 391.9  | 342.2  | 317.4  | 306.3  | 300.8  | 298.1  |
| 30°   | 1228.1 | 1126.0 | 863.8  | 593.4  | 430.5  | 353.3  | 314.6  | 300.8  | 292.5  | 289.8  | 289.8  |
| 32.5° | 1288.8 | 1142.6 | 825.2  | 535.4  | 380.9  | 320.1  | 295.3  | 284.3  | 278.7  | 276.0  | 278.7  |
| 35°   | 1360.6 | 1186.7 | 783.8  | 474.7  | 345.0  | 298.1  | 278.7  | 270.5  | 267.7  | 267.7  | 267.7  |
| 37.5° | 1471.0 | 1253.0 | 747.9  | 425.0  | 314.6  | 276.0  | 262.2  | 259.4  | 256.7  | 259.4  | 259.4  |
| 40°   | 1597.9 | 1324.7 | 714.8  | 386.4  | 292.5  | 262.2  | 248.4  | 248.4  | 245.6  | 248.4  | 251.1  |
| 42.5° | 1744.2 | 1413.0 | 681.7  | 347.7  | 273.2  | 251.1  | 240.1  | 237.3  | 234.6  | 240.1  | 242.9  |
| 45°   | 1945.7 | 1534.5 | 659.6  | 325.7  | 259.4  | 240.1  | 229.1  | 229.1  | 226.3  | 226.3  | 231.8  |
| 47.5° | 2114.0 | 1650.4 | 659.6  | 303.6  | 251.1  | 231.8  | 220.8  | 220.8  | 215.3  | 218.0  | 218.0  |
| 50°   | 2254.8 | 1749.7 | 673.4  | 298.1  | 240.1  | 223.5  | 215.3  | 209.7  | 207.0  | 207.0  | 207.0  |
| 52.5° | 2348.6 | 1810.4 | 684.4  | 292.5  | 234.6  | 212.5  | 207.0  | 204.2  | 198.7  | 195.9  | 198.7  |
| 55°   | 2442.4 | 1851.8 | 687.2  | 292.5  | 226.3  | 201.5  | 195.9  | 195.9  | 190.4  | 187.7  | 187.7  |
| 57.5° | 2478.3 | 1835.3 | 648.6  | 287.0  | 220.8  | 193.2  | 187.7  | 184.9  | 182.1  | 179.4  | 179.4  |
| 60°   | 2461.8 | 1774.6 | 563.0  | 273.2  | 215.3  | 187.7  | 176.6  | 176.6  | 176.6  | 171.1  | 173.9  |
| 62.5° | 2348.6 | 1567.6 | 452.6  | 251.1  | 207.0  | 176.6  | 165.6  | 171.1  | 171.1  | 168.3  | 168.3  |
| 65°   | 2050.5 | 1294.4 | 367.1  | 231.8  | 195.9  | 168.3  | 157.3  | 165.6  | 168.3  | 165.6  | 162.8  |
| 67.5° | 1639.3 | 996.3  | 303.6  | 209.7  | 182.1  | 154.5  | 146.3  | 154.5  | 157.3  | 154.5  | 154.5  |
| 70°   | 1126.0 | 643.0  | 245.6  | 187.7  | 162.8  | 140.8  | 132.5  | 138.0  | 138.0  | 140.8  | 140.8  |
| 72.5° | 582.3  | 347.7  | 201.5  | 160.1  | 140.8  | 127.0  | 118.7  | 118.7  | 115.9  | 115.9  | 115.9  |
| 75°   | 289.8  | 237.3  | 168.3  | 135.2  | 118.7  | 107.6  | 102.1  | 96.6   | 96.6   | 96.6   | 96.6   |
| 77.5° | 201.5  | 182.1  | 138.0  | 107.6  | 96.6   | 88.3   | 88.3   | 80.0   | 80.0   | 80.0   | 80.0   |
| 80°   | 151.8  | 143.5  | 104.9  | 82.8   | 74.5   | 69.0   | 69.0   | 66.2   | 66.2   | 63.5   | 63.5   |
| 82.5° | 107.6  | 115.9  | 80.0   | 60.7   | 55.2   | 52.4   | 52.4   | 49.7   | 49.7   | 44.2   | 44.2   |
| 85°   | 85.6   | 96.6   | 60.7   | 44.2   | 41.4   | 35.9   | 35.9   | 33.1   | 33.1   | 30.4   | 27.6   |
| 87.5° | 24.8   | 52.4   | 24.8   | 16.6   | 16.6   | 16.6   | 16.6   | 13.8   | 13.8   | 11.0   | 11.0   |
| 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)