

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: P674482

Luminaire Tested: **CCP-SA-1C-840-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674482  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-840-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

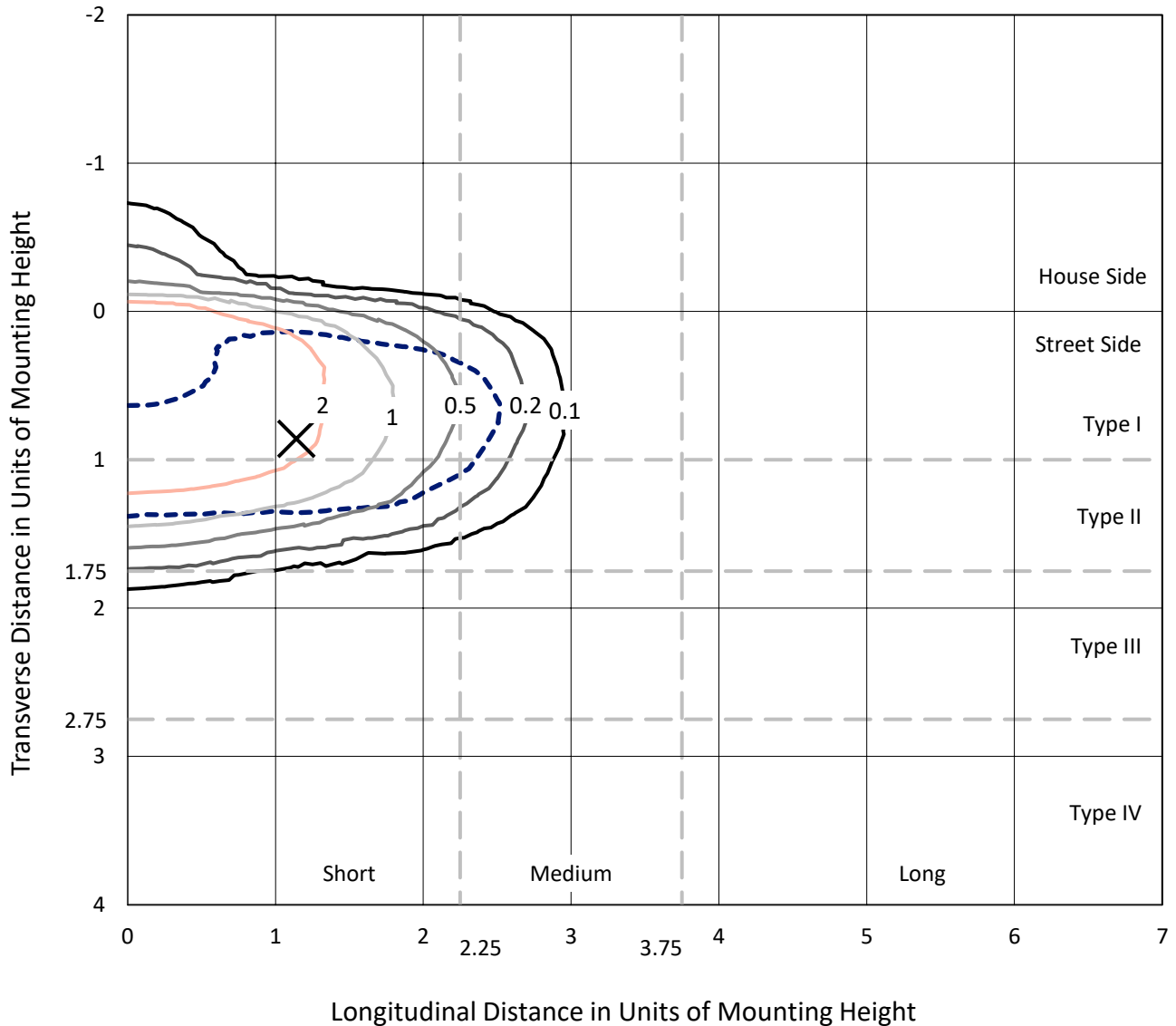
Lumens per Lamp: N/A  
Luminaire Lumens: 3196.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

Input Watts (W): 32  
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

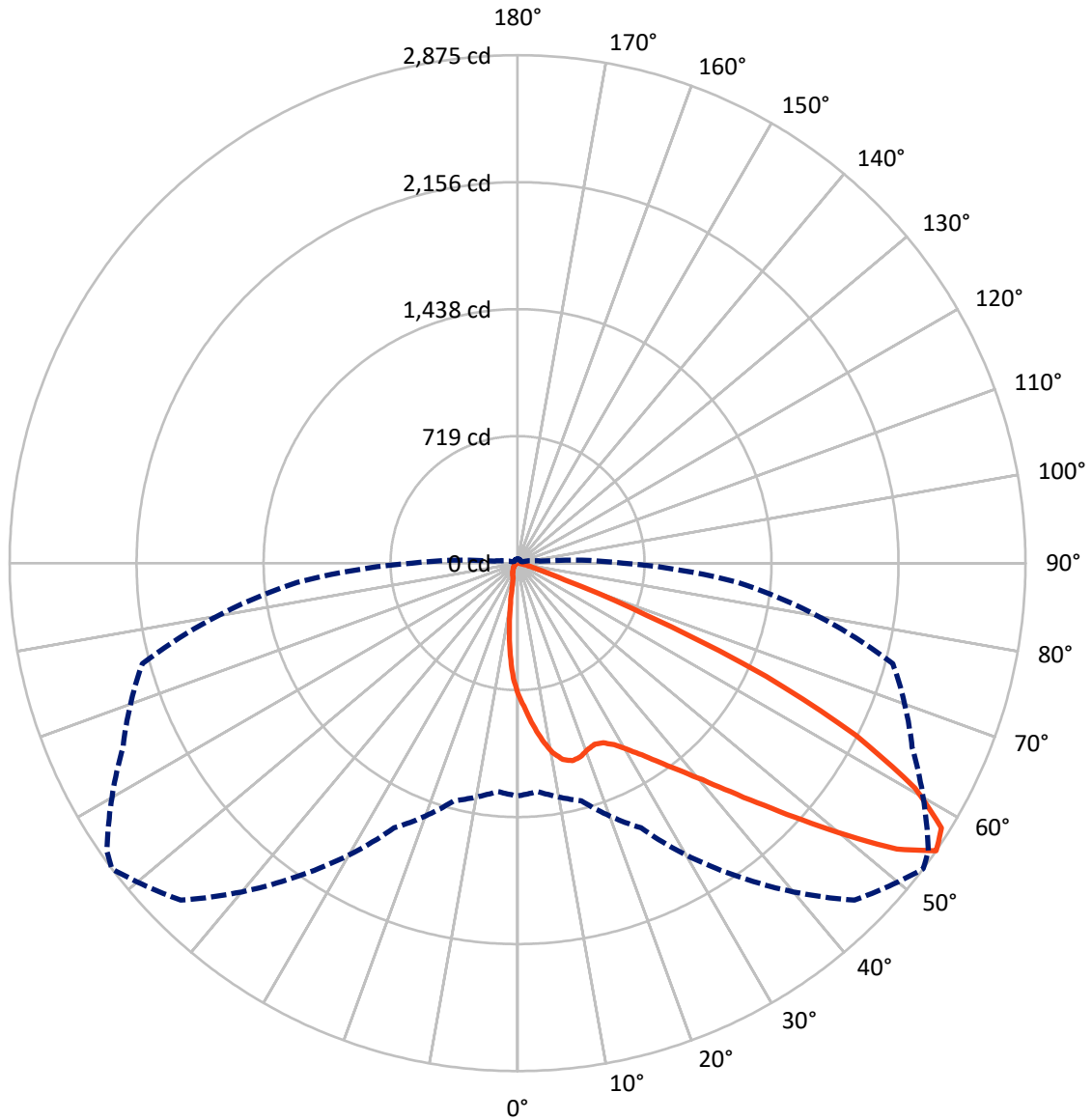
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 172.8    | 0.0    | 172.8  |
|                    | % Fixture | 5.4      | 0.0    | 5.4    |
| <b>Street Side</b> | Lumens    | 3023.9   | 0.0    | 3023.9 |
|                    | % Fixture | 94.6     | 0.0    | 94.6   |
| <b>Total</b>       | Lumens    | 3196.6   | 0.0    | 3196.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.9   | 2.1       |
| 10°-20°   | 174.8  | 5.5       |
| 20°-30°   | 292.5  | 9.2       |
| 30°-40°   | 478.5  | 15.0      |
| 40°-50°   | 769.2  | 24.1      |
| 50°-60°   | 868.5  | 27.2      |
| 60°-70°   | 463.3  | 14.5      |
| 70°-80°   | 76.1   | 2.4       |
| 80°-90°   | 6.8    | 0.2       |
| 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°    | 3196.6 | 100.0     |
| 0°-180°   | 3196.6 | 100.0     |

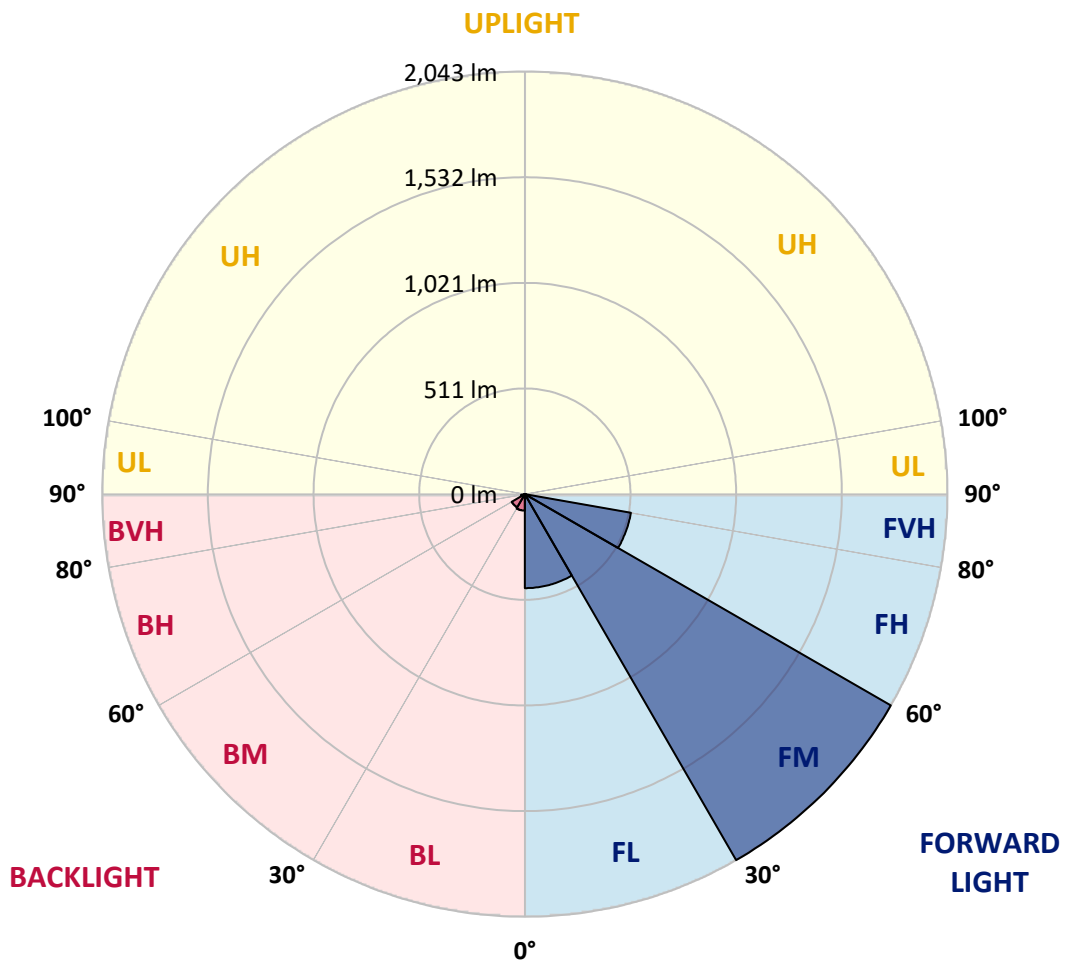


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 454.4  | 14.2      |                         |      |        |
| FM (30°-60°)   | 2042.7 | 63.9      |                         |      |        |
| FH (60°-80°)   | 520.5  | 16.3      |                         |      | G0/660 |
| FVH (80°-90°)  | 6.3    | 0.2       |                         |      | G0/10  |
| BL (0°-30°)    | 79.7   | 2.5       | B0/110                  |      |        |
| BM (30°-60°)   | 73.6   | 2.3       | B0/220                  |      |        |
| BH (60°-80°)   | 18.9   | 0.6       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.6    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  | 748.1  |
| 2.5°  | 897.1  | 891.8  | 894.9  | 886.7  | 871.9  | 853.4  | 825.7  | 827.1  | 805.2  | 786.2  | 759.9  |
| 5°    | 1045.3 | 1039.7 | 1038.0 | 1017.2 | 996.5  | 963.2  | 922.0  | 915.3  | 875.2  | 826.8  | 771.6  |
| 7.5°  | 1123.4 | 1118.6 | 1122.3 | 1114.7 | 1094.3 | 1064.0 | 1011.9 | 1006.9 | 945.0  | 871.6  | 790.4  |
| 10°   | 1087.5 | 1085.9 | 1101.3 | 1119.2 | 1135.7 | 1132.1 | 1090.3 | 1082.5 | 1013.0 | 920.9  | 809.7  |
| 12.5° | 991.2  | 996.5  | 1016.1 | 1049.2 | 1100.1 | 1148.0 | 1141.3 | 1142.7 | 1082.5 | 974.4  | 831.0  |
| 15°   | 934.6  | 941.1  | 952.3  | 969.4  | 1032.1 | 1117.2 | 1160.6 | 1174.6 | 1149.2 | 1034.0 | 856.2  |
| 17.5° | 929.9  | 935.2  | 936.9  | 943.3  | 980.0  | 1067.7 | 1152.8 | 1179.4 | 1208.5 | 1090.3 | 884.5  |
| 20°   | 966.6  | 968.8  | 967.4  | 962.6  | 975.8  | 1040.8 | 1128.2 | 1166.2 | 1257.6 | 1150.3 | 909.4  |
| 22.5° | 1035.7 | 1032.4 | 1028.2 | 1010.5 | 1009.7 | 1048.3 | 1114.7 | 1154.5 | 1286.7 | 1199.9 | 925.9  |
| 25°   | 1121.4 | 1114.4 | 1108.6 | 1083.6 | 1071.9 | 1087.8 | 1126.8 | 1158.7 | 1313.0 | 1248.0 | 937.7  |
| 27.5° | 1215.0 | 1217.2 | 1202.7 | 1169.0 | 1150.6 | 1147.2 | 1164.0 | 1187.8 | 1338.5 | 1291.2 | 944.1  |
| 30°   | 1315.0 | 1316.1 | 1297.0 | 1262.3 | 1245.5 | 1223.9 | 1222.8 | 1237.1 | 1365.9 | 1340.7 | 950.3  |
| 32.5° | 1429.0 | 1432.0 | 1401.0 | 1364.8 | 1335.4 | 1307.4 | 1293.7 | 1305.7 | 1415.2 | 1405.4 | 962.9  |
| 35°   | 1593.6 | 1580.2 | 1538.2 | 1483.6 | 1441.8 | 1405.2 | 1384.1 | 1392.0 | 1480.8 | 1483.0 | 988.1  |
| 37.5° | 1763.4 | 1762.0 | 1715.5 | 1636.8 | 1568.4 | 1522.8 | 1486.9 | 1499.8 | 1572.9 | 1586.9 | 1028.4 |
| 40°   | 1921.6 | 1925.3 | 1884.9 | 1816.3 | 1728.4 | 1649.9 | 1611.6 | 1620.3 | 1695.3 | 1713.0 | 1077.5 |
| 42.5° | 2025.0 | 2023.0 | 2026.1 | 2006.5 | 1918.3 | 1825.8 | 1768.1 | 1772.9 | 1837.6 | 1846.8 | 1138.8 |
| 45°   | 2072.6 | 2065.0 | 2091.3 | 2153.5 | 2118.5 | 2021.3 | 1955.5 | 1949.6 | 1985.2 | 1982.7 | 1194.5 |
| 47.5° | 2031.4 | 2017.4 | 2077.9 | 2227.7 | 2295.5 | 2266.1 | 2172.0 | 2161.4 | 2131.1 | 2111.0 | 1252.5 |
| 50°   | 1826.7 | 1820.5 | 1949.9 | 2192.5 | 2406.7 | 2492.4 | 2423.2 | 2383.7 | 2261.4 | 2205.6 | 1283.0 |
| 52.5° | 1632.0 | 1614.9 | 1702.3 | 2012.4 | 2357.1 | 2674.5 | 2688.8 | 2618.5 | 2369.5 | 2232.8 | 1272.7 |
| 55°   | 1318.3 | 1297.3 | 1392.6 | 1653.3 | 2160.8 | 2697.7 | 2875.3 | 2838.6 | 2464.1 | 2199.2 | 1251.7 |
| 57.5° | 800.7  | 780.0  | 920.1  | 1184.2 | 1728.1 | 2504.5 | 2829.4 | 2866.6 | 2537.0 | 2162.2 | 1237.9 |
| 60°   | 336.7  | 323.5  | 378.4  | 565.2  | 1103.5 | 2058.3 | 2585.7 | 2678.7 | 2550.7 | 2111.5 | 1243.5 |
| 62.5° | 175.0  | 169.2  | 172.2  | 226.3  | 446.2  | 1355.3 | 2152.1 | 2314.0 | 2412.3 | 2089.1 | 1249.2 |
| 65°   | 131.4  | 126.9  | 117.1  | 124.4  | 173.4  | 585.9  | 1546.6 | 1763.4 | 2112.4 | 2032.2 | 1211.3 |
| 67.5° | 107.8  | 103.6  | 96.6   | 94.4   | 102.2  | 203.3  | 789.5  | 1071.3 | 1655.3 | 1790.0 | 1075.8 |
| 70°   | 86.0   | 84.6   | 82.3   | 78.1   | 76.7   | 98.6   | 283.2  | 436.6  | 1094.5 | 1262.3 | 779.7  |
| 72.5° | 71.7   | 72.0   | 69.5   | 65.8   | 60.8   | 63.6   | 112.9  | 149.3  | 529.6  | 605.2  | 326.6  |
| 75°   | 59.9   | 59.9   | 60.8   | 55.7   | 50.7   | 43.7   | 62.7   | 72.8   | 170.0  | 139.8  | 69.7   |
| 77.5° | 47.1   | 47.6   | 51.3   | 47.1   | 40.6   | 27.4   | 34.2   | 38.9   | 50.4   | 40.3   | 25.5   |
| 80°   | 37.5   | 37.0   | 35.6   | 42.3   | 36.4   | 19.3   | 16.2   | 17.9   | 23.5   | 19.3   | 12.6   |
| 82.5° | 26.3   | 26.0   | 24.9   | 28.6   | 28.3   | 14.3   | 10.6   | 10.9   | 14.3   | 12.3   | 7.8    |
| 85°   | 6.4    | 7.6    | 16.0   | 13.4   | 11.8   | 8.4    | 6.4    | 7.0    | 9.2    | 8.1    | 4.2    |
| 87.5° | 2.8    | 2.8    | 7.3    | 8.7    | 5.6    | 3.6    | 2.8    | 3.1    | 4.8    | 4.8    | 2.5    |
| 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°    | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 | 748.1 |
| 2.5°  | 750.6 | 732.4 | 709.4 | 685.1 | 660.1 | 630.2 | 611.1 | 595.4 | 583.1 | 573.6 | 570.2 |
| 5°    | 753.4 | 718.4 | 666.3 | 601.6 | 535.8 | 474.2 | 426.6 | 391.3 | 362.1 | 346.2 | 339.2 |
| 7.5°  | 753.1 | 706.6 | 612.5 | 504.1 | 397.2 | 308.4 | 245.3 | 206.4 | 180.4 | 169.7 | 163.3 |
| 10°   | 752.9 | 691.2 | 551.2 | 396.0 | 265.5 | 178.7 | 131.6 | 109.8 | 100.3 | 96.6  | 96.1  |
| 12.5° | 761.0 | 673.6 | 482.6 | 291.6 | 166.6 | 111.2 | 91.6  | 86.5  | 84.3  | 83.2  | 82.9  |
| 15°   | 765.5 | 657.3 | 410.3 | 205.9 | 112.3 | 87.9  | 81.8  | 79.5  | 78.7  | 78.1  | 77.9  |
| 17.5° | 770.2 | 632.1 | 341.7 | 149.0 | 89.9  | 79.8  | 76.2  | 74.8  | 74.2  | 74.2  | 74.2  |
| 20°   | 771.1 | 605.0 | 273.6 | 109.8 | 79.8  | 74.5  | 70.9  | 69.5  | 68.6  | 68.1  | 68.1  |
| 22.5° | 764.9 | 572.8 | 215.1 | 89.1  | 73.9  | 69.5  | 65.5  | 63.3  | 61.9  | 61.6  | 61.6  |
| 25°   | 749.5 | 527.1 | 165.0 | 78.1  | 69.2  | 64.4  | 59.7  | 57.1  | 56.0  | 56.0  | 56.0  |
| 27.5° | 727.4 | 473.3 | 127.4 | 69.5  | 63.0  | 58.3  | 54.1  | 51.8  | 51.5  | 51.3  | 51.5  |
| 30°   | 702.2 | 421.5 | 97.5  | 61.6  | 55.7  | 51.8  | 48.5  | 47.3  | 47.9  | 47.9  | 48.2  |
| 32.5° | 676.9 | 369.7 | 76.2  | 55.5  | 49.3  | 45.9  | 44.3  | 44.3  | 45.1  | 45.1  | 45.1  |
| 35°   | 655.4 | 319.0 | 63.9  | 50.4  | 44.8  | 42.0  | 41.2  | 42.0  | 42.6  | 42.9  | 42.9  |
| 37.5° | 643.3 | 275.3 | 56.3  | 45.9  | 41.2  | 38.9  | 38.7  | 39.5  | 40.6  | 41.5  | 41.7  |
| 40°   | 638.9 | 241.7 | 51.8  | 42.6  | 37.8  | 36.4  | 36.1  | 37.3  | 39.2  | 40.6  | 40.9  |
| 42.5° | 639.1 | 212.0 | 47.9  | 39.2  | 35.6  | 33.6  | 33.6  | 35.3  | 37.3  | 38.7  | 38.7  |
| 45°   | 641.1 | 186.5 | 44.0  | 35.9  | 33.6  | 30.2  | 30.5  | 32.8  | 34.2  | 35.6  | 35.6  |
| 47.5° | 642.8 | 166.1 | 39.8  | 32.2  | 29.1  | 27.4  | 28.0  | 29.7  | 31.6  | 33.9  | 33.9  |
| 50°   | 633.0 | 151.5 | 35.6  | 28.3  | 25.5  | 24.9  | 26.0  | 27.4  | 30.2  | 32.5  | 32.8  |
| 52.5° | 609.5 | 138.4 | 31.9  | 25.2  | 23.0  | 23.2  | 24.6  | 25.5  | 27.7  | 28.0  | 28.3  |
| 55°   | 599.1 | 131.6 | 29.1  | 23.0  | 21.0  | 21.8  | 22.7  | 23.0  | 22.4  | 21.0  | 21.0  |
| 57.5° | 596.8 | 127.2 | 26.3  | 20.7  | 19.3  | 20.4  | 20.2  | 18.5  | 16.8  | 15.1  | 14.8  |
| 60°   | 599.1 | 121.0 | 24.1  | 17.9  | 17.6  | 17.9  | 17.1  | 14.0  | 11.8  | 10.6  | 10.1  |
| 62.5° | 586.2 | 112.0 | 22.1  | 15.4  | 15.4  | 15.1  | 12.9  | 9.5   | 7.6   | 6.7   | 6.4   |
| 65°   | 543.6 | 94.4  | 20.2  | 12.9  | 12.6  | 12.0  | 8.7   | 6.4   | 5.0   | 4.2   | 3.9   |
| 67.5° | 459.9 | 73.1  | 18.2  | 10.6  | 10.1  | 8.4   | 5.6   | 4.2   | 2.8   | 2.5   | 2.2   |
| 70°   | 313.7 | 45.4  | 15.4  | 8.4   | 7.6   | 5.3   | 3.4   | 2.5   | 1.7   | 1.4   | 1.1   |
| 72.5° | 113.7 | 26.3  | 12.9  | 6.4   | 5.0   | 3.4   | 2.0   | 1.1   | 0.8   | 0.8   | 0.6   |
| 75°   | 26.9  | 18.5  | 9.8   | 4.8   | 3.4   | 2.0   | 1.1   | 0.8   | 0.6   | 0.6   | 0.3   |
| 77.5° | 12.3  | 14.3  | 6.4   | 2.8   | 2.2   | 1.4   | 0.8   | 0.6   | 0.3   | 0.3   | 0.0   |
| 80°   | 7.0   | 10.1  | 3.1   | 2.0   | 1.7   | 1.1   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   |
| 82.5° | 3.6   | 5.6   | 2.2   | 1.7   | 1.4   | 0.8   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.5   | 2.8   | 1.7   | 1.4   | 1.1   | 0.8   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.0   | 2.0   | 1.7   | 1.4   | 1.1   | 0.8   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)