

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: P674798

Luminaire Tested: **CCW-SA-2C-722-U-T2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P674798  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-722-U-T2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
T2 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6643.4 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

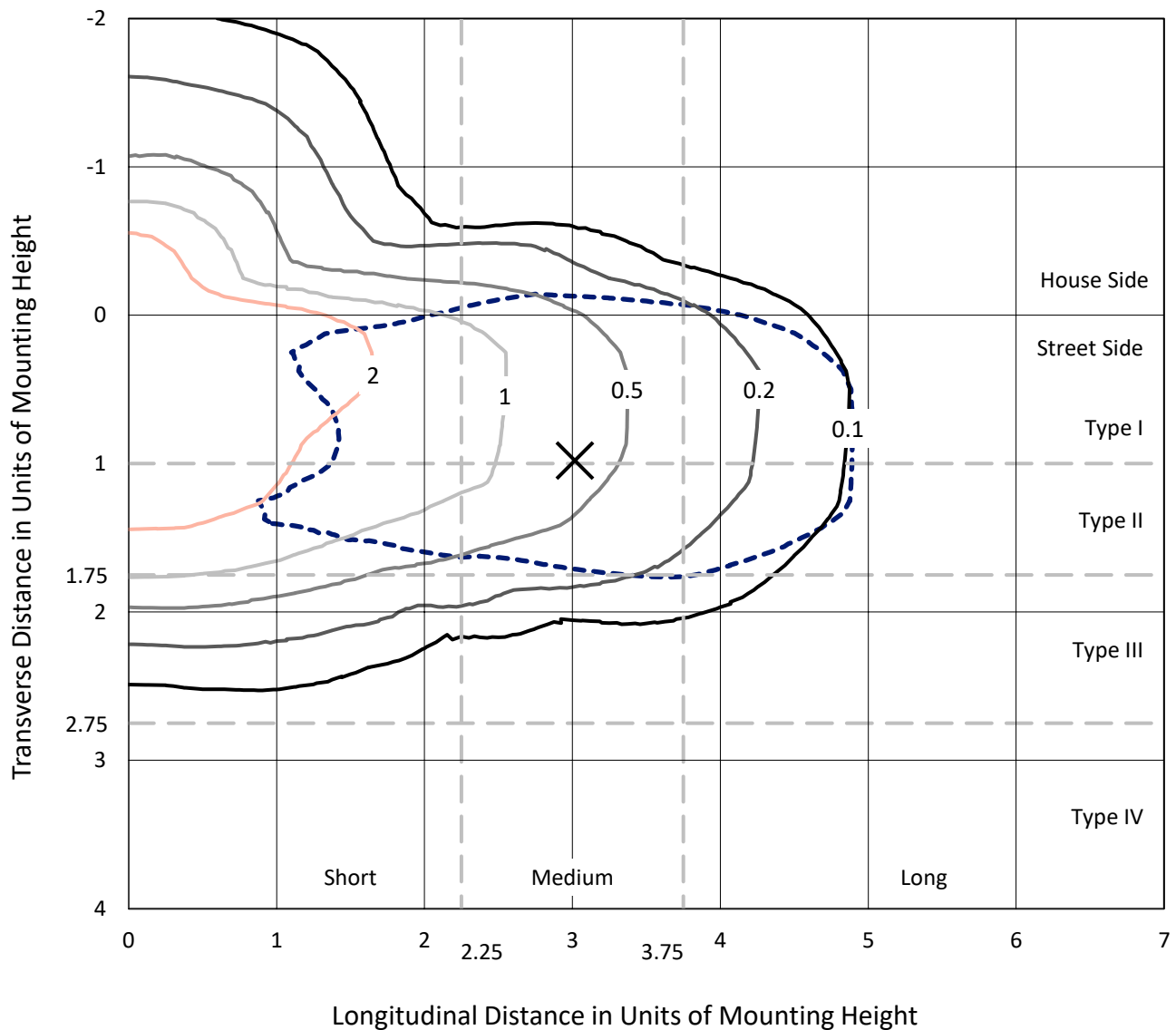
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

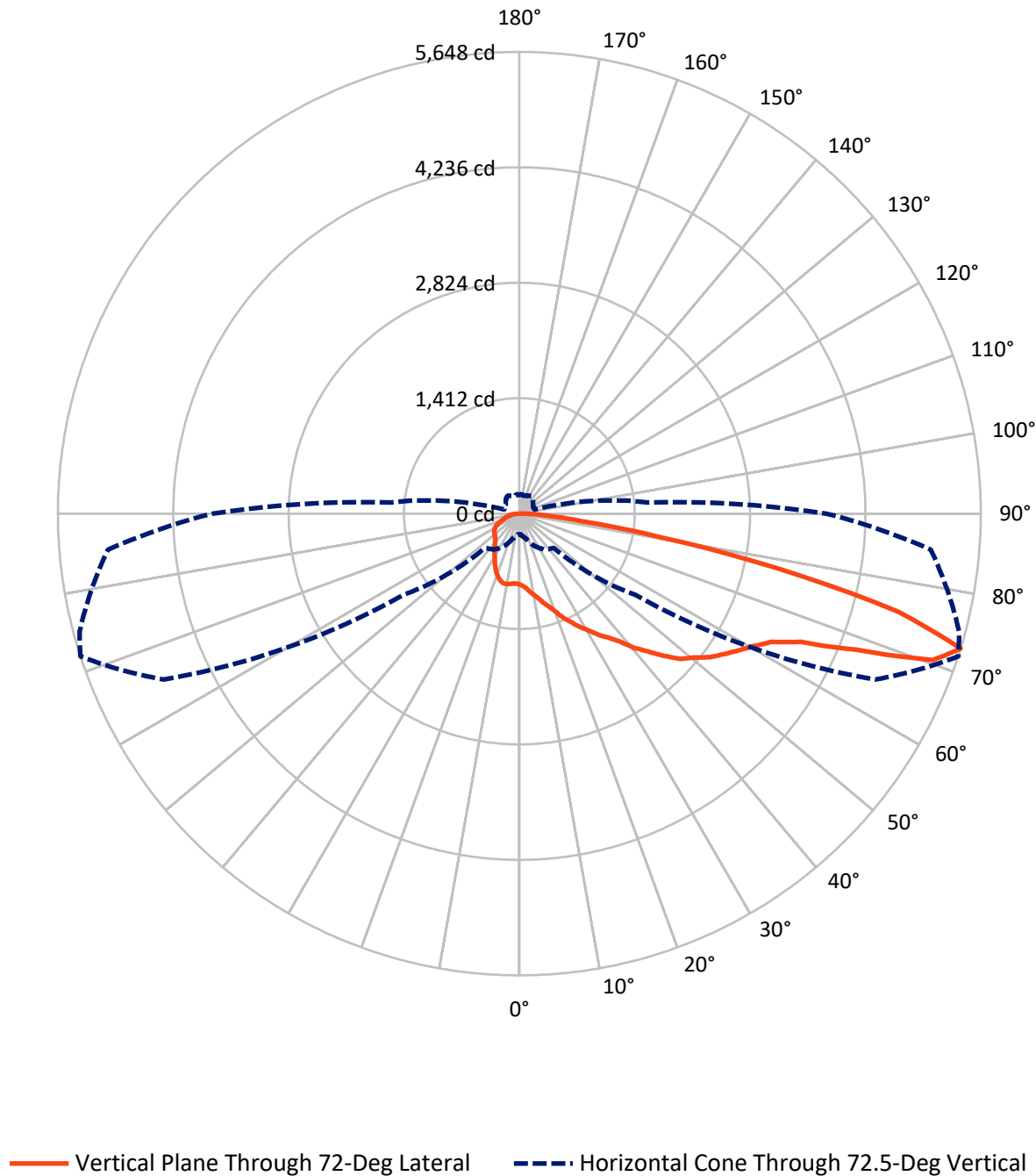
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - 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    | 1398.1   | 0.0    | 1398.1 |
|                    | % Fixture | 21.0     | 0.0    | 21.0   |
| <b>Street Side</b> | Lumens    | 5245.2   | 0.0    | 5245.2 |
|                    | % Fixture | 79.0     | 0.0    | 79.0   |
| <b>Total</b>       | Lumens    | 6643.4   | 0.0    | 6643.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 85.8   | 1.3       |
| 10°-20°   | 266.6  | 4.0       |
| 20°-30°   | 461.3  | 6.9       |
| 30°-40°   | 681.4  | 10.3      |
| 40°-50°   | 1013.3 | 15.3      |
| 50°-60°   | 1389.2 | 20.9      |
| 60°-70°   | 1506.9 | 22.7      |
| 70°-80°   | 1062.4 | 16.0      |
| 80°-90°   | 176.5  | 2.7       |
| 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°    | 6643.4 | 100.0     |
| 0°-180°   | 6643.4 | 100.0     |

**Coefficient of Utilization**



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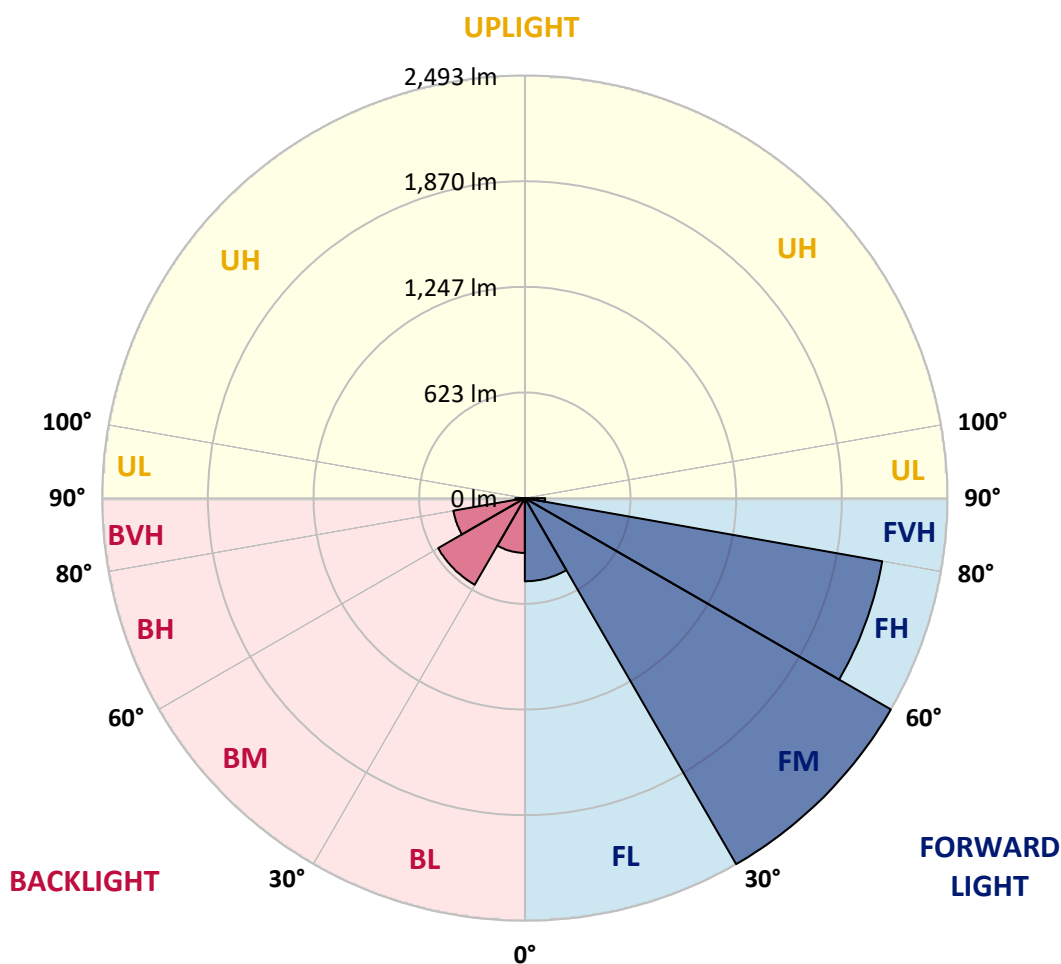
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 490.6  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2493.4 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 2140.9 | 32.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 120.3  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 323.2  | 4.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 590.5  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 428.3  | 6.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 56.2   | 0.8       |                         |      | 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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  | 867.8  |
| 2.5°  | 936.4  | 936.4  | 929.1  | 926.6  | 926.6  | 907.0  | 909.5  | 897.2  | 887.4  | 887.4  | 877.6  |
| 5°    | 985.5  | 980.6  | 980.6  | 980.6  | 968.3  | 961.0  | 958.5  | 936.4  | 919.3  | 921.7  | 892.3  |
| 7.5°  | 997.7  | 1000.2 | 1002.6 | 1014.9 | 1007.5 | 1012.4 | 1007.5 | 983.0  | 970.8  | 958.5  | 931.5  |
| 10°   | 1005.1 | 1010.0 | 1010.0 | 1027.2 | 1027.2 | 1039.4 | 1046.8 | 1037.0 | 1014.9 | 1002.6 | 958.5  |
| 12.5° | 1022.2 | 1014.9 | 1024.7 | 1037.0 | 1049.2 | 1071.3 | 1093.3 | 1083.5 | 1068.8 | 1054.1 | 1005.1 |
| 15°   | 1022.2 | 1024.7 | 1032.1 | 1051.7 | 1071.3 | 1093.3 | 1132.6 | 1147.3 | 1139.9 | 1113.0 | 1061.5 |
| 17.5° | 992.8  | 985.5  | 1019.8 | 1056.6 | 1093.3 | 1120.3 | 1171.8 | 1206.1 | 1201.2 | 1191.4 | 1113.0 |
| 20°   | 995.3  | 1002.6 | 1014.9 | 1046.8 | 1105.6 | 1154.6 | 1218.4 | 1274.7 | 1287.0 | 1282.1 | 1181.6 |
| 22.5° | 1039.4 | 1041.9 | 1054.1 | 1068.8 | 1115.4 | 1179.1 | 1274.7 | 1365.5 | 1387.5 | 1375.3 | 1257.6 |
| 25°   | 1083.5 | 1103.1 | 1103.1 | 1113.0 | 1130.1 | 1196.3 | 1311.5 | 1439.0 | 1470.9 | 1473.3 | 1336.0 |
| 27.5° | 1154.6 | 1159.5 | 1174.2 | 1179.1 | 1193.9 | 1233.1 | 1353.2 | 1492.9 | 1566.5 | 1556.7 | 1407.1 |
| 30°   | 1238.0 | 1240.4 | 1250.2 | 1245.3 | 1247.8 | 1296.8 | 1392.4 | 1554.2 | 1654.7 | 1657.2 | 1483.1 |
| 32.5° | 1336.0 | 1355.6 | 1360.5 | 1328.7 | 1333.6 | 1345.8 | 1453.7 | 1627.8 | 1765.0 | 1747.9 | 1549.3 |
| 35°   | 1480.7 | 1488.0 | 1473.3 | 1458.6 | 1421.8 | 1414.5 | 1517.4 | 1701.3 | 1860.6 | 1880.3 | 1647.4 |
| 37.5° | 1659.6 | 1679.2 | 1659.6 | 1581.2 | 1542.0 | 1512.5 | 1595.9 | 1782.2 | 1975.9 | 2042.0 | 1745.4 |
| 40°   | 1826.3 | 1823.9 | 1804.3 | 1733.2 | 1664.5 | 1642.5 | 1708.7 | 1895.0 | 2154.8 | 2218.6 | 1887.6 |
| 42.5° | 1961.1 | 1953.8 | 1941.5 | 1887.6 | 1823.9 | 1787.1 | 1838.6 | 2012.6 | 2304.4 | 2426.9 | 2051.9 |
| 45°   | 2078.8 | 2069.0 | 2071.5 | 2010.2 | 1948.9 | 1968.5 | 1968.5 | 2147.5 | 2480.9 | 2632.8 | 2240.6 |
| 47.5° | 2189.1 | 2194.0 | 2186.7 | 2140.1 | 2093.5 | 2145.0 | 2118.0 | 2301.9 | 2654.9 | 2824.1 | 2400.0 |
| 50°   | 2316.6 | 2326.4 | 2301.9 | 2272.5 | 2230.8 | 2282.3 | 2248.0 | 2446.5 | 2767.7 | 2998.1 | 2591.2 |
| 52.5° | 2436.7 | 2446.5 | 2468.6 | 2431.8 | 2390.2 | 2431.8 | 2353.4 | 2581.4 | 2917.2 | 3167.3 | 2738.3 |
| 55°   | 2466.1 | 2461.2 | 2583.8 | 2623.0 | 2645.1 | 2520.1 | 2446.5 | 2696.6 | 3034.9 | 3275.1 | 2905.0 |
| 57.5° | 2331.3 | 2343.6 | 2510.3 | 2623.0 | 2858.4 | 2750.5 | 2551.9 | 2831.4 | 3157.5 | 3417.3 | 3059.4 |
| 60°   | 1995.5 | 2002.8 | 2211.2 | 2478.4 | 2821.6 | 2966.2 | 2836.3 | 3005.5 | 3292.3 | 3537.4 | 3233.4 |
| 62.5° | 1333.6 | 1390.0 | 1649.8 | 2069.0 | 2561.8 | 3025.1 | 3289.8 | 3299.6 | 3456.5 | 3689.4 | 3471.2 |
| 65°   | 703.6  | 730.5  | 934.0  | 1272.3 | 1941.5 | 2821.6 | 3716.4 | 3883.1 | 3785.0 | 3968.9 | 3814.4 |
| 67.5° | 460.9  | 470.7  | 581.0  | 772.2  | 1120.3 | 2059.2 | 3765.4 | 4895.5 | 4444.5 | 4500.8 | 4363.6 |
| 70°   | 343.2  | 348.1  | 429.0  | 571.2  | 693.8  | 1100.7 | 3086.4 | 5368.6 | 5366.2 | 5216.7 | 5015.6 |
| 72.5° | 252.5  | 259.9  | 316.2  | 436.4  | 534.4  | 593.2  | 1735.6 | 4802.4 | 5648.1 | 5572.1 | 5054.9 |
| 75°   | 198.6  | 203.5  | 232.9  | 338.3  | 431.5  | 389.8  | 880.1  | 3557.0 | 4790.1 | 5155.4 | 4625.9 |
| 77.5° | 161.8  | 166.7  | 183.9  | 245.1  | 345.7  | 301.5  | 421.6  | 2294.5 | 3248.2 | 3711.5 | 3539.9 |
| 80°   | 134.8  | 134.8  | 147.1  | 174.1  | 267.2  | 228.0  | 250.0  | 1289.5 | 1750.3 | 1931.7 | 1605.7 |
| 82.5° | 115.2  | 112.8  | 122.6  | 127.5  | 198.6  | 164.2  | 161.8  | 583.4  | 769.8  | 816.3  | 603.1  |
| 85°   | 73.5   | 76.0   | 115.2  | 110.3  | 129.9  | 112.8  | 90.7   | 277.0  | 362.8  | 370.2  | 225.5  |
| 87.5° | 29.4   | 29.4   | 49.0   | 61.3   | 73.5   | 68.6   | 44.1   | 125.0  | 159.3  | 159.3  | 63.7   |
| 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°    | 867.8  | 867.8  | 867.8 | 867.8 | 867.8 | 867.8 | 867.8 | 867.8 | 867.8 | 867.8 | 867.8 |
| 2.5°  | 875.2  | 865.4  | 858.0 | 853.1 | 840.8 | 828.6 | 831.0 | 828.6 | 818.8 | 813.9 | 813.9 |
| 5°    | 885.0  | 875.2  | 862.9 | 843.3 | 831.0 | 816.3 | 821.2 | 811.4 | 801.6 | 809.0 | 796.7 |
| 7.5°  | 909.5  | 892.3  | 875.2 | 845.7 | 826.1 | 804.1 | 794.3 | 789.4 | 782.0 | 777.1 | 777.1 |
| 10°   | 943.8  | 919.3  | 887.4 | 843.3 | 811.4 | 777.1 | 772.2 | 762.4 | 755.0 | 755.0 | 752.6 |
| 12.5° | 978.1  | 951.2  | 897.2 | 826.1 | 772.2 | 747.7 | 745.2 | 747.7 | 752.6 | 755.0 | 757.5 |
| 15°   | 1022.2 | 978.1  | 894.8 | 794.3 | 740.3 | 730.5 | 742.8 | 752.6 | 762.4 | 772.2 | 769.8 |
| 17.5° | 1063.9 | 1012.4 | 872.7 | 755.0 | 713.4 | 715.8 | 737.9 | 757.5 | 777.1 | 786.9 | 789.4 |
| 20°   | 1120.3 | 1044.3 | 840.8 | 708.5 | 686.4 | 708.5 | 737.9 | 762.4 | 784.5 | 796.7 | 799.2 |
| 22.5° | 1184.0 | 1081.1 | 799.2 | 666.8 | 664.3 | 686.4 | 715.8 | 752.6 | 777.1 | 799.2 | 796.7 |
| 25°   | 1240.4 | 1105.6 | 745.2 | 632.5 | 637.4 | 652.1 | 686.4 | 725.6 | 750.1 | 774.7 | 767.3 |
| 27.5° | 1277.2 | 1110.5 | 688.9 | 608.0 | 608.0 | 622.7 | 654.5 | 679.0 | 701.1 | 720.7 | 723.2 |
| 30°   | 1318.9 | 1100.7 | 625.1 | 576.1 | 576.1 | 595.7 | 608.0 | 622.7 | 634.9 | 639.8 | 644.7 |
| 32.5° | 1367.9 | 1078.6 | 585.9 | 551.6 | 551.6 | 566.3 | 573.6 | 568.7 | 566.3 | 554.0 | 561.4 |
| 35°   | 1414.5 | 1046.8 | 541.8 | 519.7 | 529.5 | 536.9 | 534.4 | 519.7 | 505.0 | 482.9 | 475.6 |
| 37.5° | 1470.9 | 1014.9 | 502.5 | 485.4 | 502.5 | 505.0 | 505.0 | 487.8 | 468.2 | 441.3 | 441.3 |
| 40°   | 1556.7 | 990.4  | 470.7 | 463.3 | 480.5 | 478.0 | 465.8 | 453.5 | 460.9 | 446.2 | 446.2 |
| 42.5° | 1647.4 | 980.6  | 441.3 | 443.7 | 451.1 | 453.5 | 441.3 | 426.6 | 456.0 | 438.8 | 441.3 |
| 45°   | 1760.1 | 987.9  | 421.6 | 419.2 | 436.4 | 433.9 | 426.6 | 414.3 | 424.1 | 380.0 | 367.7 |
| 47.5° | 1865.5 | 1002.6 | 411.8 | 402.0 | 421.6 | 426.6 | 416.7 | 389.8 | 375.1 | 348.1 | 343.2 |
| 50°   | 1961.1 | 1034.5 | 402.0 | 382.4 | 402.0 | 411.8 | 394.7 | 365.3 | 348.1 | 330.9 | 330.9 |
| 52.5° | 2051.9 | 1081.1 | 397.1 | 360.4 | 377.5 | 389.8 | 380.0 | 350.6 | 330.9 | 323.6 | 316.2 |
| 55°   | 2145.0 | 1122.8 | 389.8 | 345.7 | 350.6 | 375.1 | 372.6 | 333.4 | 313.8 | 313.8 | 311.3 |
| 57.5° | 2277.4 | 1179.1 | 380.0 | 321.1 | 330.9 | 357.9 | 357.9 | 326.0 | 304.0 | 306.4 | 308.9 |
| 60°   | 2412.2 | 1245.3 | 370.2 | 296.6 | 304.0 | 340.7 | 345.7 | 316.2 | 296.6 | 299.1 | 296.6 |
| 62.5° | 2627.9 | 1367.9 | 350.6 | 267.2 | 281.9 | 318.7 | 330.9 | 304.0 | 286.8 | 291.7 | 291.7 |
| 65°   | 2954.0 | 1578.7 | 308.9 | 242.7 | 259.9 | 299.1 | 316.2 | 291.7 | 272.1 | 286.8 | 281.9 |
| 67.5° | 3478.6 | 1868.0 | 259.9 | 223.1 | 245.1 | 279.5 | 299.1 | 277.0 | 259.9 | 281.9 | 274.6 |
| 70°   | 3949.3 | 2010.2 | 223.1 | 205.9 | 223.1 | 257.4 | 279.5 | 262.3 | 245.1 | 267.2 | 257.4 |
| 72.5° | 3758.1 | 1576.3 | 193.7 | 186.3 | 203.5 | 232.9 | 259.9 | 242.7 | 225.5 | 237.8 | 228.0 |
| 75°   | 3243.3 | 1255.1 | 169.1 | 166.7 | 181.4 | 210.8 | 237.8 | 225.5 | 208.4 | 213.3 | 208.4 |
| 77.5° | 2458.8 | 1037.0 | 144.6 | 142.2 | 154.4 | 188.8 | 213.3 | 203.5 | 186.3 | 183.9 | 183.9 |
| 80°   | 1098.2 | 509.9  | 120.1 | 120.1 | 127.5 | 161.8 | 181.4 | 176.5 | 159.3 | 156.9 | 154.4 |
| 82.5° | 360.4  | 193.7  | 98.1  | 93.2  | 103.0 | 134.8 | 161.8 | 156.9 | 139.7 | 134.8 | 129.9 |
| 85°   | 144.6  | 93.2   | 71.1  | 71.1  | 80.9  | 112.8 | 144.6 | 134.8 | 112.8 | 100.5 | 100.5 |
| 87.5° | 49.0   | 39.2   | 36.8  | 36.8  | 51.5  | 76.0  | 107.9 | 90.7  | 80.9  | 71.1  | 73.5  |
| 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)