

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: P677055

Luminaire Tested: **CCW-SA-2A-835-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677055  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-835-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3725.7 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

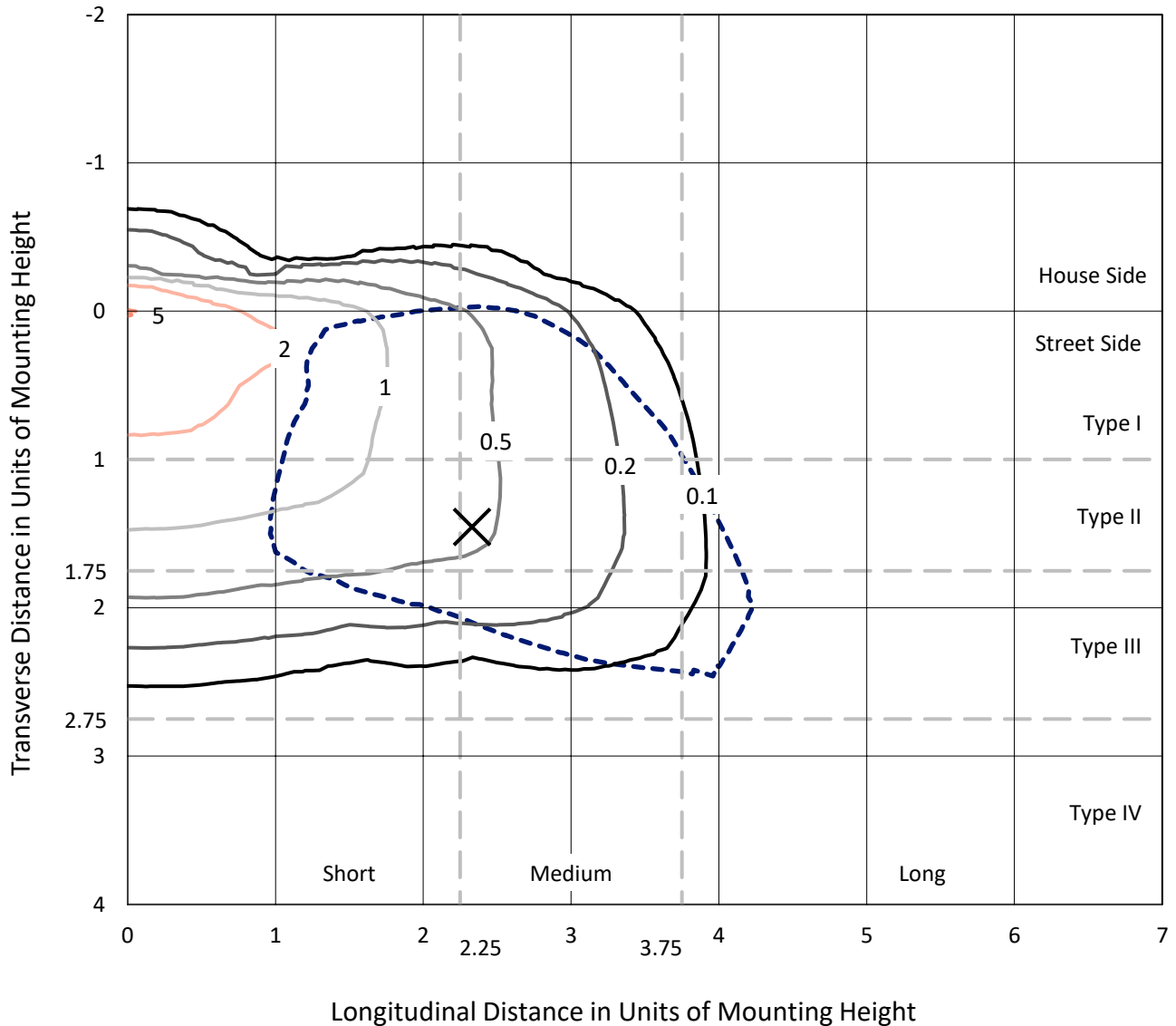
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

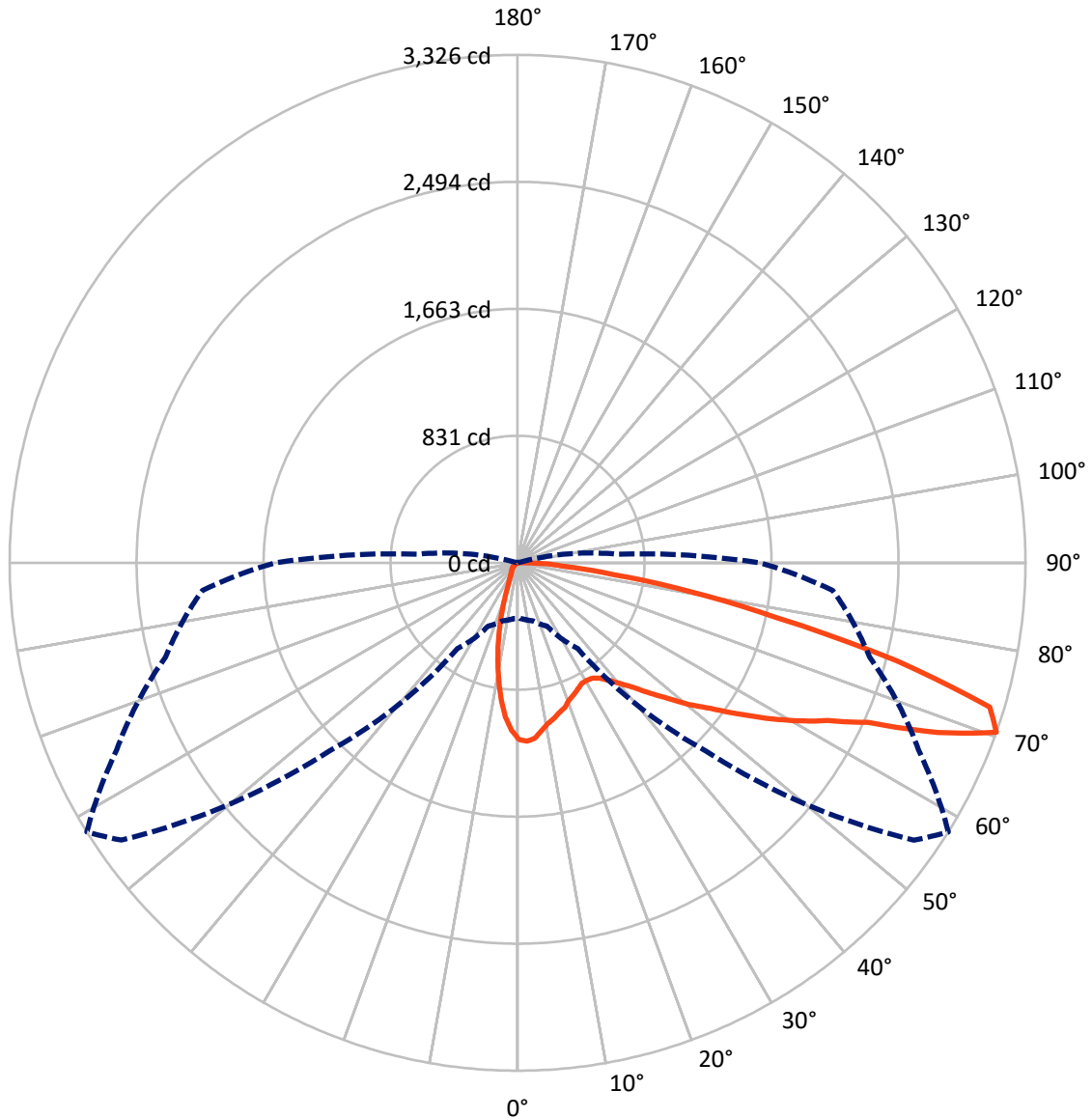
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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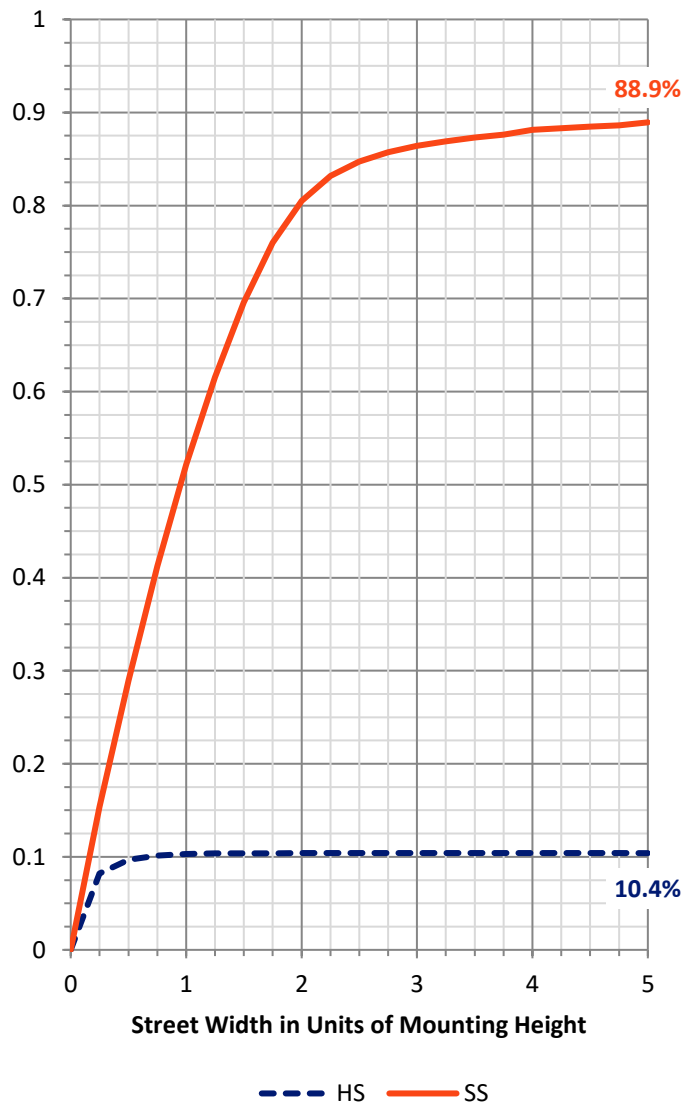
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 390.1    | 0.0    | 390.1  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 3335.5   | 0.0    | 3335.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 3725.7   | 0.0    | 3725.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.4   | 2.5       |
| 10°-20°   | 196.5  | 5.3       |
| 20°-30°   | 263.1  | 7.1       |
| 30°-40°   | 355.6  | 9.5       |
| 40°-50°   | 510.4  | 13.7      |
| 50°-60°   | 752.1  | 20.2      |
| 60°-70°   | 917.4  | 24.6      |
| 70°-80°   | 560.2  | 15.0      |
| 80°-90°   | 76.1   | 2.0       |
| 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°    | 3725.7 | 100.0     |
| 0°-180°   | 3725.7 | 100.0     |

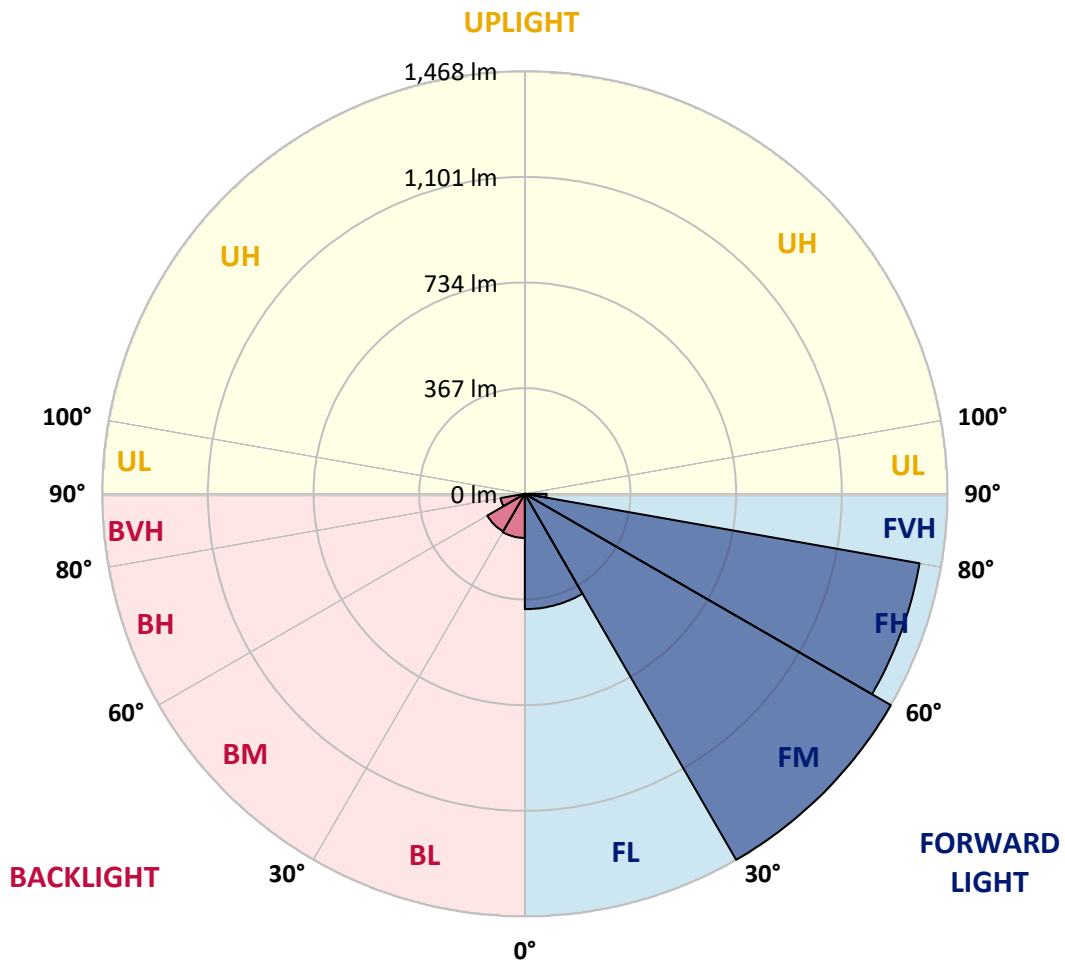


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 400.6  | 10.8      |                         |      |         |
| FM (30°-60°)   | 1467.5 | 39.4      |                         |      |         |
| FH (60°-80°)   | 1392.1 | 37.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 75.4   | 2.0       |                         |      | G1/100  |
| BL (0°-30°)    | 153.3  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 150.6  | 4.0       | B0/220                  |      |         |
| BH (60°-80°)   | 85.5   | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 |
| 2.5°  | 1177.5 | 1181.9 | 1171.4 | 1183.6 | 1172.3 | 1177.5 | 1171.4 | 1169.7 | 1170.5 | 1171.4 | 1164.4 |
| 5°    | 1122.5 | 1133.0 | 1137.3 | 1130.4 | 1147.0 | 1144.3 | 1154.8 | 1155.7 | 1151.3 | 1147.0 | 1147.8 |
| 7.5°  | 1050.0 | 1060.5 | 1064.8 | 1069.2 | 1085.8 | 1107.6 | 1121.6 | 1112.9 | 1119.9 | 1135.6 | 1112.0 |
| 10°   | 997.6  | 995.0  | 994.1  | 1002.8 | 1034.3 | 1052.6 | 1076.2 | 1073.6 | 1091.0 | 1105.9 | 1086.7 |
| 12.5° | 932.9  | 927.7  | 943.4  | 950.4  | 978.4  | 1010.7 | 1029.0 | 1048.2 | 1065.7 | 1081.4 | 1059.6 |
| 15°   | 884.9  | 889.3  | 895.4  | 910.2  | 930.3  | 973.1  | 1000.2 | 1018.5 | 1050.0 | 1057.9 | 1049.1 |
| 17.5° | 846.5  | 850.0  | 858.7  | 866.5  | 891.9  | 932.9  | 975.7  | 997.6  | 1030.8 | 1051.7 | 1024.7 |
| 20°   | 847.3  | 836.8  | 836.8  | 844.7  | 858.7  | 907.6  | 953.0  | 960.0  | 1005.4 | 1041.3 | 1022.9 |
| 22.5° | 848.2  | 844.7  | 836.8  | 836.0  | 842.1  | 877.0  | 923.3  | 939.1  | 988.0  | 1029.9 | 1008.1 |
| 25°   | 860.4  | 847.3  | 848.2  | 836.0  | 838.6  | 856.1  | 892.8  | 916.3  | 972.2  | 1036.0 | 1000.2 |
| 27.5° | 870.9  | 877.0  | 864.8  | 859.6  | 844.7  | 843.8  | 874.4  | 894.5  | 964.4  | 1050.0 | 1005.4 |
| 30°   | 894.5  | 898.9  | 898.9  | 895.4  | 881.4  | 861.3  | 868.3  | 893.6  | 948.7  | 1047.4 | 996.7  |
| 32.5° | 933.8  | 926.0  | 936.4  | 931.2  | 912.8  | 881.4  | 887.5  | 900.6  | 958.3  | 1080.6 | 1010.7 |
| 35°   | 946.9  | 953.0  | 967.0  | 955.7  | 949.5  | 931.2  | 919.0  | 928.6  | 972.2  | 1113.8 | 1031.6 |
| 37.5° | 987.1  | 978.4  | 988.0  | 1013.3 | 1019.4 | 986.2  | 962.6  | 976.6  | 1024.7 | 1153.1 | 1050.9 |
| 40°   | 990.6  | 997.6  | 1015.1 | 1064.8 | 1071.0 | 1057.0 | 1037.8 | 1041.3 | 1077.1 | 1203.7 | 1098.9 |
| 42.5° | 1008.1 | 1015.9 | 1051.7 | 1093.7 | 1126.9 | 1129.5 | 1115.5 | 1115.5 | 1146.1 | 1285.0 | 1152.2 |
| 45°   | 1042.1 | 1029.0 | 1075.3 | 1146.1 | 1194.1 | 1203.7 | 1222.1 | 1217.7 | 1242.2 | 1370.6 | 1251.8 |
| 47.5° | 1055.2 | 1059.6 | 1110.3 | 1195.9 | 1250.9 | 1295.5 | 1326.0 | 1326.9 | 1339.1 | 1479.8 | 1381.1 |
| 50°   | 1098.0 | 1097.2 | 1158.3 | 1237.8 | 1319.0 | 1400.3 | 1459.7 | 1459.7 | 1458.8 | 1586.3 | 1492.0 |
| 52.5° | 1154.8 | 1153.1 | 1200.2 | 1294.6 | 1400.3 | 1502.5 | 1581.1 | 1583.7 | 1603.8 | 1717.4 | 1619.5 |
| 55°   | 1247.4 | 1239.6 | 1285.0 | 1354.9 | 1481.5 | 1605.6 | 1741.8 | 1742.7 | 1727.0 | 1810.8 | 1711.3 |
| 57.5° | 1325.2 | 1324.3 | 1361.8 | 1429.1 | 1572.4 | 1738.3 | 1896.5 | 1920.0 | 1870.2 | 1906.9 | 1784.6 |
| 60°   | 1305.1 | 1316.4 | 1394.2 | 1493.7 | 1668.5 | 1904.3 | 2063.3 | 2100.0 | 2020.5 | 1972.4 | 1839.7 |
| 62.5° | 1180.1 | 1206.4 | 1291.1 | 1450.1 | 1749.7 | 2145.4 | 2293.0 | 2276.4 | 2099.1 | 2028.4 | 1906.9 |
| 65°   | 849.1  | 875.3  | 980.1  | 1218.6 | 1655.4 | 2315.7 | 2595.3 | 2520.2 | 2238.9 | 2111.3 | 1996.9 |
| 67.5° | 499.7  | 510.1  | 575.7  | 777.4  | 1237.8 | 2223.2 | 2962.2 | 2968.3 | 2514.0 | 2238.9 | 2152.4 |
| 70°   | 360.8  | 368.6  | 394.0  | 458.6  | 685.7  | 1742.7 | 3166.6 | 3325.6 | 2895.8 | 2385.6 | 2070.3 |
| 72.5° | 276.9  | 276.9  | 319.7  | 381.7  | 436.8  | 1043.9 | 2914.1 | 3233.0 | 2978.8 | 2245.0 | 1668.5 |
| 75°   | 199.2  | 204.4  | 250.7  | 328.5  | 402.7  | 524.1  | 2147.2 | 2565.6 | 2524.5 | 1819.6 | 1165.3 |
| 77.5° | 114.4  | 117.1  | 176.5  | 275.2  | 378.2  | 359.9  | 1326.9 | 1739.2 | 1788.1 | 1139.1 | 504.9  |
| 80°   | 58.5   | 60.3   | 98.7   | 217.5  | 342.4  | 313.6  | 791.4  | 1145.2 | 971.4  | 331.1  | 117.1  |
| 82.5° | 28.8   | 28.8   | 44.6   | 138.9  | 290.9  | 277.8  | 465.6  | 632.4  | 344.2  | 76.0   | 48.9   |
| 85°   | 9.6    | 10.5   | 20.1   | 78.6   | 210.5  | 167.7  | 284.8  | 300.5  | 115.3  | 28.8   | 27.1   |
| 87.5° | 2.6    | 3.5    | 5.2    | 28.8   | 91.7   | 110.1  | 169.5  | 192.2  | 47.2   | 11.4   | 13.1   |
| 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°    | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 | 1156.6 |
| 2.5°  | 1138.2 | 1132.1 | 1125.1 | 1107.6 | 1093.7 | 1075.3 | 1063.1 | 1053.5 | 1035.1 | 1038.6 | 1030.8 |
| 5°    | 1126.9 | 1115.5 | 1075.3 | 1036.9 | 1001.9 | 948.7  | 912.0  | 888.4  | 869.2  | 850.0  | 863.9  |
| 7.5°  | 1106.8 | 1079.7 | 1016.8 | 945.2  | 870.9  | 801.0  | 731.2  | 689.2  | 658.6  | 630.7  | 629.8  |
| 10°   | 1072.7 | 1029.0 | 930.3  | 836.8  | 722.4  | 630.7  | 541.6  | 471.7  | 426.3  | 393.1  | 392.2  |
| 12.5° | 1034.3 | 988.8  | 864.8  | 712.8  | 580.9  | 451.6  | 345.0  | 270.8  | 228.0  | 201.8  | 198.3  |
| 15°   | 1009.8 | 943.4  | 782.7  | 602.7  | 439.4  | 294.4  | 191.3  | 145.0  | 128.4  | 122.3  | 122.3  |
| 17.5° | 978.4  | 902.4  | 701.5  | 488.3  | 304.9  | 170.3  | 124.0  | 111.8  | 110.9  | 109.2  | 107.4  |
| 20°   | 965.3  | 870.9  | 628.9  | 389.6  | 193.1  | 120.5  | 106.6  | 104.0  | 104.0  | 102.2  | 100.5  |
| 22.5° | 930.3  | 825.5  | 552.1  | 285.6  | 128.4  | 105.7  | 100.5  | 97.0   | 95.2   | 93.5   | 95.2   |
| 25°   | 914.6  | 793.2  | 479.6  | 197.4  | 104.8  | 94.3   | 91.7   | 88.2   | 85.6   | 84.7   | 84.7   |
| 27.5° | 904.1  | 760.9  | 408.8  | 137.1  | 92.6   | 86.5   | 81.2   | 78.6   | 75.1   | 71.6   | 71.6   |
| 30°   | 896.2  | 735.5  | 340.7  | 101.3  | 83.0   | 76.9   | 72.5   | 66.4   | 62.0   | 58.5   | 58.5   |
| 32.5° | 885.8  | 705.8  | 272.5  | 86.5   | 75.1   | 69.0   | 61.1   | 55.9   | 49.8   | 47.2   | 47.2   |
| 35°   | 889.3  | 685.7  | 214.0  | 76.9   | 67.3   | 59.4   | 52.4   | 45.4   | 39.3   | 36.7   | 35.8   |
| 37.5° | 896.2  | 670.9  | 162.5  | 69.0   | 60.3   | 51.5   | 43.7   | 35.8   | 32.3   | 28.8   | 28.8   |
| 40°   | 926.0  | 666.5  | 119.7  | 63.8   | 55.0   | 45.4   | 36.7   | 29.7   | 26.2   | 23.6   | 22.7   |
| 42.5° | 975.7  | 672.6  | 92.6   | 57.7   | 49.8   | 38.4   | 30.6   | 24.5   | 21.0   | 18.3   | 17.5   |
| 45°   | 1039.5 | 696.2  | 76.0   | 54.2   | 43.7   | 32.3   | 24.5   | 20.1   | 15.7   | 14.0   | 14.0   |
| 47.5° | 1132.1 | 732.9  | 66.4   | 49.8   | 38.4   | 27.1   | 21.0   | 15.7   | 12.2   | 10.5   | 10.5   |
| 50°   | 1236.9 | 774.8  | 58.5   | 44.6   | 33.2   | 22.7   | 16.6   | 12.2   | 8.7    | 7.9    | 7.9    |
| 52.5° | 1341.8 | 828.1  | 54.2   | 41.1   | 28.8   | 18.3   | 13.1   | 8.7    | 6.1    | 5.2    | 5.2    |
| 55°   | 1451.8 | 875.3  | 48.9   | 38.4   | 23.6   | 14.9   | 9.6    | 5.2    | 3.5    | 2.6    | 2.6    |
| 57.5° | 1528.7 | 893.6  | 42.8   | 33.2   | 18.3   | 11.4   | 7.0    | 3.5    | 1.7    | 0.9    | 0.9    |
| 60°   | 1583.7 | 896.2  | 36.7   | 27.1   | 14.0   | 8.7    | 4.4    | 1.7    | 0.9    | 0.0    | 0.0    |
| 62.5° | 1630.0 | 901.5  | 31.4   | 21.0   | 10.5   | 6.1    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    |
| 65°   | 1721.7 | 897.1  | 25.3   | 16.6   | 7.0    | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1794.2 | 853.4  | 20.1   | 11.4   | 4.4    | 1.7    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 1587.2 | 650.8  | 15.7   | 7.9    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1246.5 | 434.1  | 10.5   | 4.4    | 1.7    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 817.6  | 215.8  | 7.9    | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 318.0  | 56.8   | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 76.9   | 19.2   | 2.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 33.2   | 7.0    | 1.7    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.1   | 3.5    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.5   | 1.7    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    | 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)