

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: P675472

Luminaire Tested: **CCW-SA-2B-835-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675472  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL2 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

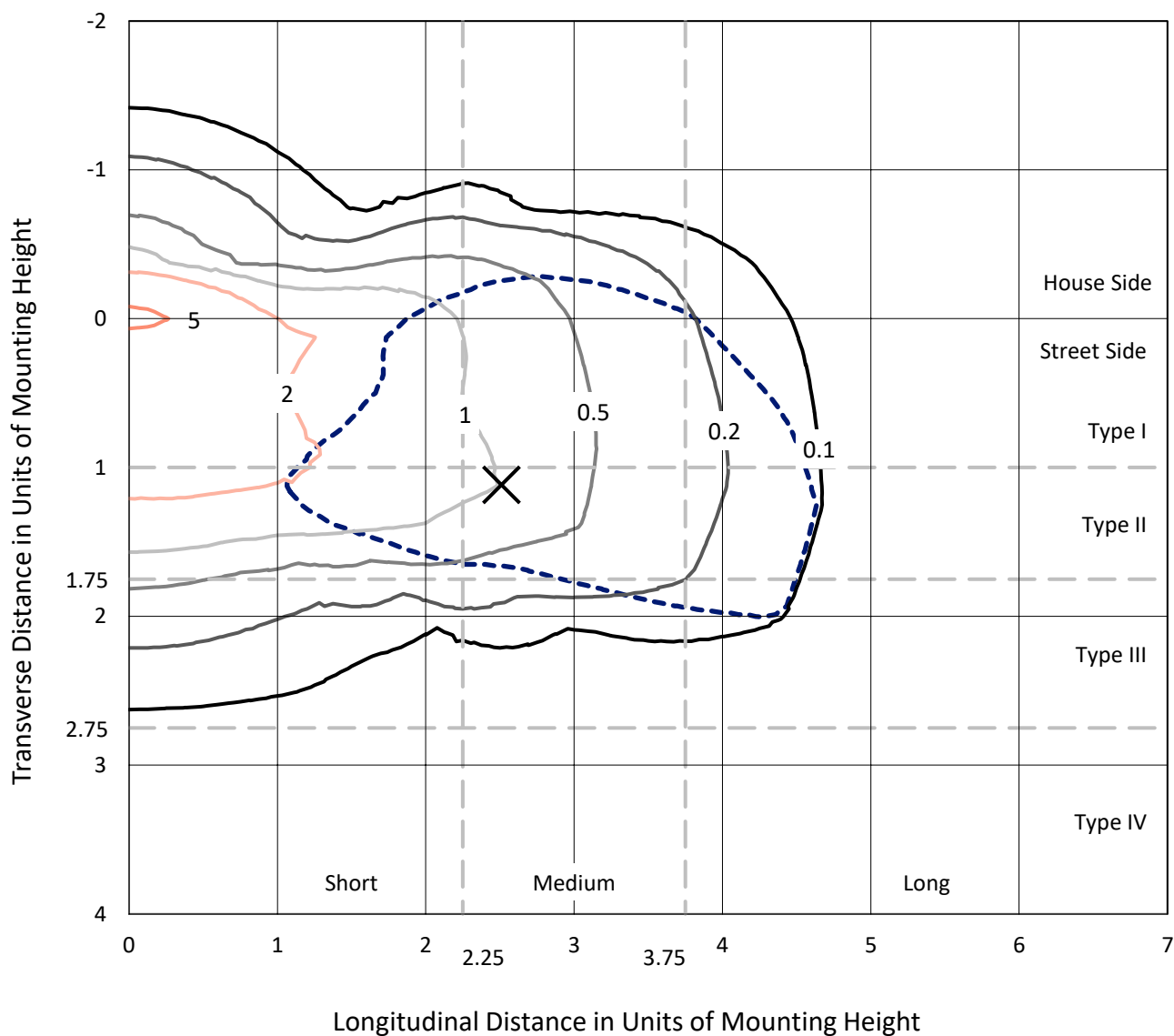
Lumens per Lamp: N/A  
Luminaire Lumens: 5632 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

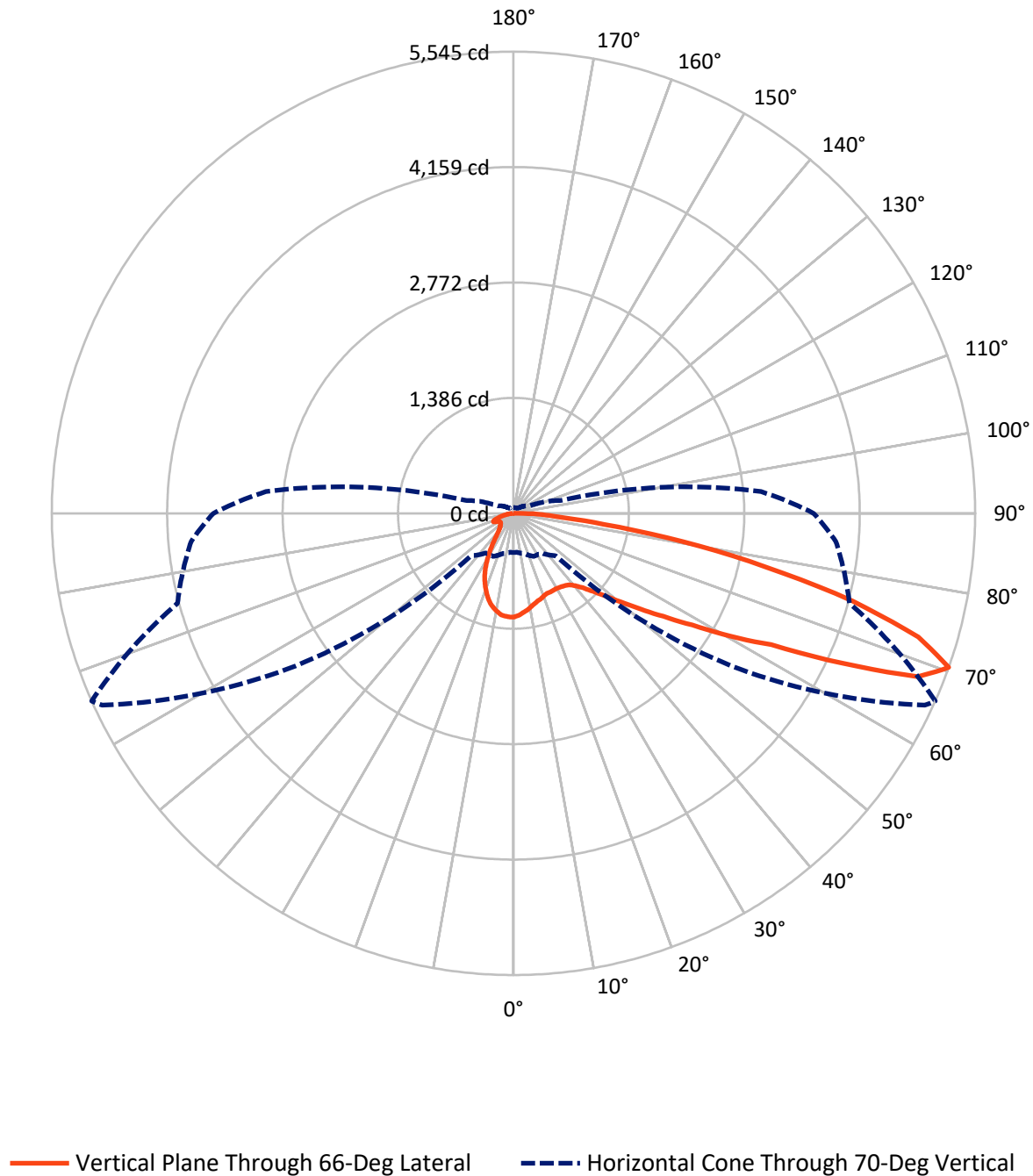
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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    | 1152.8   | 0.0    | 1152.8 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 4479.2   | 0.0    | 4479.2 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 5632.0   | 0.0    | 5632.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.0  | 2.0       |
| 10°-20°   | 270.8  | 4.8       |
| 20°-30°   | 372.0  | 6.6       |
| 30°-40°   | 498.7  | 8.9       |
| 40°-50°   | 723.6  | 12.8      |
| 50°-60°   | 1099.9 | 19.5      |
| 60°-70°   | 1358.4 | 24.1      |
| 70°-80°   | 1010.2 | 17.9      |
| 80°-90°   | 188.4  | 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°    | 5632.0 | 100.0     |
| 0°-180°   | 5632.0 | 100.0     |

**Coefficient of Utilization**



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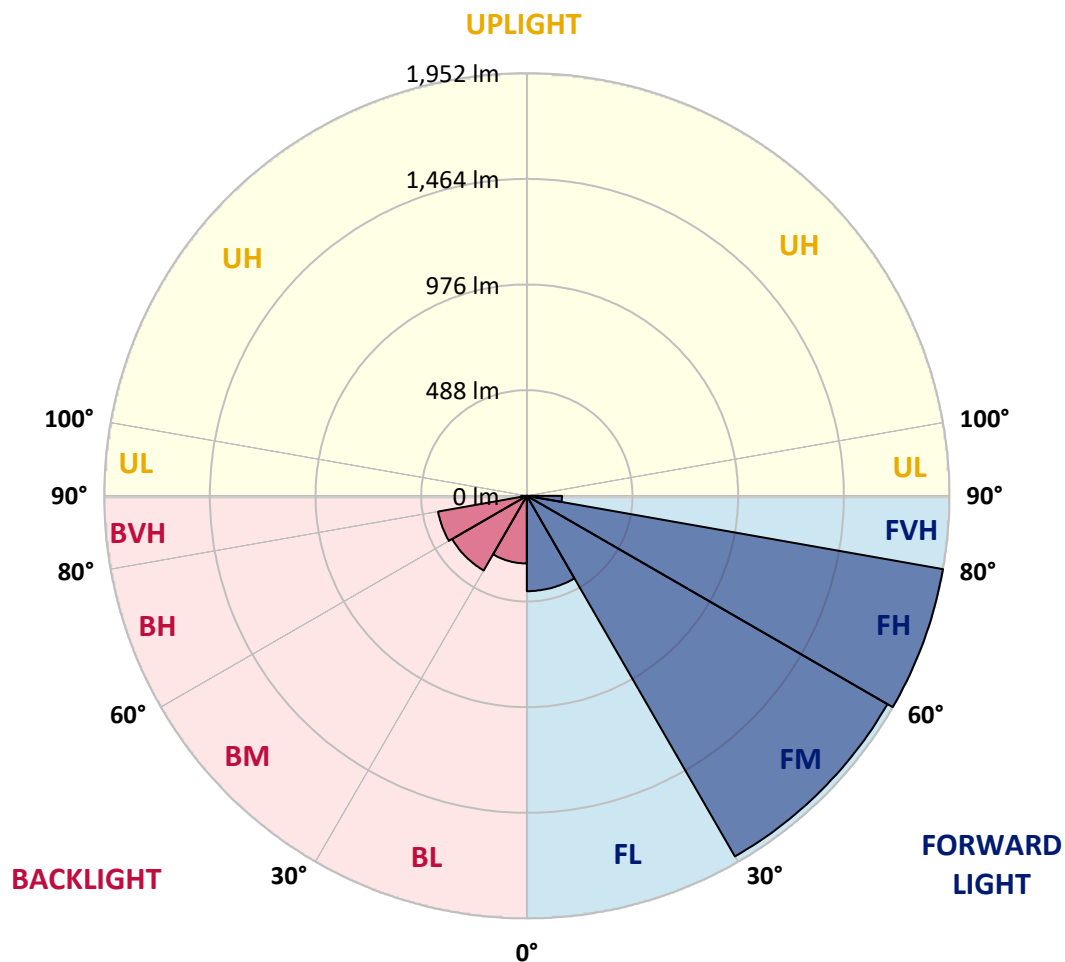
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 440.4  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1924.0 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1952.4 | 34.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 162.4  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 312.4  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 398.2  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 416.1  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 26.0   | 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°    | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |
| 2.5°  | 1183.5 | 1189.8 | 1191.9 | 1196.1 | 1206.6 | 1215.0 | 1227.5 | 1233.8 | 1227.5 | 1235.9 | 1235.9 |
| 5°    | 1101.8 | 1093.5 | 1114.4 | 1122.8 | 1135.4 | 1152.1 | 1181.4 | 1204.5 | 1198.2 | 1223.3 | 1244.3 |
| 7.5°  | 1032.7 | 1032.7 | 1039.0 | 1057.9 | 1072.5 | 1097.7 | 1129.1 | 1164.7 | 1175.2 | 1208.7 | 1240.1 |
| 10°   | 969.9  | 978.3  | 978.3  | 1007.6 | 1016.0 | 1045.3 | 1097.7 | 1141.6 | 1143.7 | 1200.3 | 1244.3 |
| 12.5° | 936.4  | 932.2  | 953.1  | 961.5  | 986.6  | 1016.0 | 1057.9 | 1112.3 | 1114.4 | 1175.2 | 1235.9 |
| 15°   | 909.1  | 913.3  | 923.8  | 944.7  | 967.8  | 990.8  | 1030.6 | 1080.9 | 1091.4 | 1162.6 | 1231.7 |
| 17.5° | 911.2  | 913.3  | 913.3  | 928.0  | 946.8  | 974.1  | 1011.8 | 1070.4 | 1076.7 | 1145.8 | 1225.4 |
| 20°   | 923.8  | 915.4  | 921.7  | 928.0  | 940.6  | 965.7  | 997.1  | 1047.4 | 1053.7 | 1143.7 | 1240.1 |
| 22.5° | 951.0  | 944.7  | 942.6  | 940.6  | 938.5  | 953.1  | 992.9  | 1034.8 | 1041.1 | 1133.3 | 1246.4 |
| 25°   | 995.0  | 992.9  | 978.3  | 963.6  | 953.1  | 953.1  | 984.5  | 1045.3 | 1043.2 | 1133.3 | 1250.6 |
| 27.5° | 1047.4 | 1047.4 | 1045.3 | 1018.1 | 986.6  | 969.9  | 990.8  | 1041.1 | 1039.0 | 1133.3 | 1261.0 |
| 30°   | 1118.6 | 1118.6 | 1112.3 | 1087.2 | 1030.6 | 982.4  | 995.0  | 1036.9 | 1043.2 | 1124.9 | 1252.7 |
| 32.5° | 1196.1 | 1194.0 | 1200.3 | 1177.3 | 1118.6 | 1041.1 | 1020.2 | 1045.3 | 1051.6 | 1133.3 | 1254.8 |
| 35°   | 1252.7 | 1265.2 | 1286.2 | 1265.2 | 1206.6 | 1101.8 | 1055.8 | 1062.0 | 1066.2 | 1135.4 | 1263.1 |
| 37.5° | 1317.6 | 1332.3 | 1361.6 | 1378.4 | 1315.5 | 1194.0 | 1112.3 | 1089.3 | 1089.3 | 1162.6 | 1265.2 |
| 40°   | 1411.9 | 1397.2 | 1447.5 | 1476.8 | 1451.7 | 1307.1 | 1200.3 | 1139.6 | 1141.6 | 1198.2 | 1292.5 |
| 42.5° | 1481.0 | 1495.7 | 1548.0 | 1600.4 | 1569.0 | 1445.4 | 1296.7 | 1221.2 | 1221.2 | 1250.6 | 1334.4 |
| 45°   | 1558.5 | 1575.3 | 1648.6 | 1711.4 | 1734.5 | 1610.9 | 1428.6 | 1338.6 | 1334.4 | 1353.2 | 1409.8 |
| 47.5° | 1644.4 | 1667.4 | 1751.2 | 1824.5 | 1885.3 | 1782.6 | 1598.3 | 1481.0 | 1478.9 | 1493.6 | 1535.5 |
| 50°   | 1742.8 | 1751.2 | 1820.4 | 1954.4 | 2075.9 | 2011.0 | 1805.7 | 1682.1 | 1671.6 | 1677.9 | 1734.5 |
| 52.5° | 1772.2 | 1765.9 | 1845.5 | 1990.0 | 2212.1 | 2289.6 | 2088.5 | 1910.4 | 1906.2 | 1891.6 | 1964.9 |
| 55°   | 1665.3 | 1686.3 | 1763.8 | 1948.1 | 2323.1 | 2618.5 | 2398.5 | 2222.5 | 2184.8 | 2145.0 | 2233.0 |
| 57.5° | 1451.7 | 1453.8 | 1541.7 | 1759.6 | 2237.2 | 2890.8 | 2924.3 | 2528.4 | 2530.5 | 2423.6 | 2524.2 |
| 60°   | 1129.1 | 1122.8 | 1191.9 | 1388.8 | 1992.1 | 2974.6 | 3498.3 | 3016.5 | 2995.5 | 2702.2 | 2794.4 |
| 62.5° | 814.9  | 802.3  | 817.0  | 932.2  | 1489.4 | 2846.8 | 4061.8 | 3563.2 | 3475.2 | 2987.1 | 3058.4 |
| 65°   | 670.3  | 676.6  | 682.9  | 689.2  | 835.8  | 2348.2 | 4235.6 | 4455.6 | 4338.3 | 3320.2 | 3349.5 |
| 67.5° | 555.1  | 559.3  | 586.5  | 624.2  | 620.1  | 1386.7 | 4034.5 | 5280.9 | 5236.9 | 3732.9 | 3600.9 |
| 70°   | 471.3  | 469.2  | 500.6  | 569.8  | 580.3  | 720.6  | 3194.5 | 5450.6 | 5544.8 | 4177.0 | 3885.8 |
| 72.5° | 377.1  | 381.2  | 408.5  | 500.6  | 569.8  | 607.5  | 1839.2 | 5086.1 | 5084.0 | 4518.4 | 3732.9 |
| 75°   | 270.2  | 270.2  | 307.9  | 414.8  | 550.9  | 601.2  | 1018.1 | 4128.8 | 4206.3 | 4246.1 | 3238.5 |
| 77.5° | 178.1  | 186.4  | 215.8  | 310.0  | 517.4  | 588.6  | 645.2  | 3001.8 | 3098.2 | 3175.7 | 2478.1 |
| 80°   | 121.5  | 125.7  | 144.5  | 215.8  | 437.8  | 592.8  | 527.9  | 2019.4 | 2057.1 | 1753.3 | 1005.5 |
| 82.5° | 73.3   | 75.4   | 96.4   | 150.8  | 314.2  | 563.5  | 496.5  | 1114.4 | 1091.4 | 530.0  | 289.1  |
| 85°   | 39.8   | 41.9   | 60.7   | 100.5  | 207.4  | 492.3  | 488.1  | 546.7  | 509.0  | 194.8  | 121.5  |
| 87.5° | 14.7   | 14.7   | 27.2   | 50.3   | 119.4  | 337.3  | 425.2  | 324.7  | 303.7  | 98.5   | 56.6   |
| 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°    | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 | 1244.3 |
| 2.5°  | 1246.4 | 1246.4 | 1246.4 | 1246.4 | 1244.3 | 1235.9 | 1242.2 | 1240.1 | 1227.5 | 1229.6 | 1221.2 |
| 5°    | 1242.2 | 1252.7 | 1246.4 | 1238.0 | 1227.5 | 1202.4 | 1194.0 | 1187.7 | 1171.0 | 1164.7 | 1171.0 |
| 7.5°  | 1252.7 | 1244.3 | 1240.1 | 1225.4 | 1183.5 | 1160.5 | 1131.2 | 1095.6 | 1070.4 | 1064.1 | 1070.4 |
| 10°   | 1250.6 | 1250.6 | 1231.7 | 1189.8 | 1150.0 | 1083.0 | 1045.3 | 982.4  | 946.8  | 936.4  | 938.5  |
| 12.5° | 1242.2 | 1248.5 | 1219.2 | 1152.1 | 1076.7 | 995.0  | 925.9  | 858.9  | 796.0  | 770.9  | 766.7  |
| 15°   | 1250.6 | 1244.3 | 1191.9 | 1106.0 | 1001.3 | 888.2  | 787.6  | 689.2  | 630.5  | 592.8  | 584.4  |
| 17.5° | 1238.0 | 1231.7 | 1156.3 | 1043.2 | 902.8  | 758.3  | 632.6  | 525.8  | 467.1  | 452.5  | 452.5  |
| 20°   | 1252.7 | 1212.9 | 1114.4 | 967.8  | 800.2  | 615.9  | 473.4  | 393.8  | 379.2  | 379.2  | 383.3  |
| 22.5° | 1250.6 | 1208.7 | 1078.8 | 894.5  | 676.6  | 465.0  | 351.9  | 328.9  | 331.0  | 347.7  | 345.6  |
| 25°   | 1238.0 | 1200.3 | 1028.5 | 812.8  | 546.7  | 349.8  | 291.2  | 284.9  | 299.6  | 318.4  | 316.3  |
| 27.5° | 1235.9 | 1177.3 | 982.4  | 716.4  | 416.9  | 276.5  | 253.5  | 253.5  | 268.1  | 284.9  | 282.8  |
| 30°   | 1223.3 | 1158.4 | 925.9  | 607.5  | 314.2  | 240.9  | 232.5  | 232.5  | 238.8  | 247.2  | 247.2  |
| 32.5° | 1221.2 | 1133.3 | 863.0  | 494.4  | 251.4  | 217.9  | 213.7  | 215.8  | 215.8  | 220.0  | 217.9  |
| 35°   | 1204.5 | 1099.8 | 798.1  | 383.3  | 217.9  | 205.3  | 201.1  | 199.0  | 199.0  | 196.9  | 196.9  |
| 37.5° | 1198.2 | 1078.8 | 731.1  | 297.5  | 203.2  | 194.8  | 190.6  | 184.3  | 182.2  | 182.2  | 180.1  |
| 40°   | 1204.5 | 1057.9 | 666.1  | 240.9  | 190.6  | 186.4  | 180.1  | 171.8  | 169.7  | 169.7  | 169.7  |
| 42.5° | 1227.5 | 1055.8 | 599.1  | 209.5  | 184.3  | 178.1  | 169.7  | 161.3  | 159.2  | 161.3  | 159.2  |
| 45°   | 1279.9 | 1072.5 | 534.2  | 194.8  | 176.0  | 169.7  | 159.2  | 152.9  | 150.8  | 152.9  | 152.9  |
| 47.5° | 1365.8 | 1118.6 | 475.5  | 186.4  | 169.7  | 161.3  | 150.8  | 144.5  | 144.5  | 144.5  | 144.5  |
| 50°   | 1508.2 | 1206.6 | 419.0  | 180.1  | 165.5  | 155.0  | 144.5  | 136.2  | 134.1  | 134.1  | 136.2  |
| 52.5° | 1721.9 | 1357.4 | 372.9  | 176.0  | 159.2  | 146.6  | 136.2  | 129.9  | 125.7  | 123.6  | 125.7  |
| 55°   | 1979.6 | 1577.4 | 358.2  | 171.8  | 150.8  | 140.3  | 129.9  | 121.5  | 117.3  | 117.3  | 115.2  |
| 57.5° | 2256.1 | 1820.4 | 383.3  | 167.6  | 144.5  | 132.0  | 121.5  | 113.1  | 108.9  | 106.8  | 106.8  |
| 60°   | 2555.6 | 2107.3 | 475.5  | 165.5  | 138.3  | 123.6  | 113.1  | 106.8  | 100.5  | 98.5   | 98.5   |
| 62.5° | 2827.9 | 2367.1 | 641.0  | 163.4  | 134.1  | 115.2  | 104.7  | 96.4   | 92.2   | 90.1   | 90.1   |
| 65°   | 3138.0 | 2656.2 | 802.3  | 171.8  | 132.0  | 108.9  | 96.4   | 88.0   | 83.8   | 81.7   | 81.7   |
| 67.5° | 3408.2 | 2907.5 | 896.6  | 192.7  | 138.3  | 100.5  | 85.9   | 79.6   | 77.5   | 75.4   | 75.4   |
| 70°   | 3605.1 | 2985.0 | 601.2  | 211.6  | 148.7  | 94.3   | 77.5   | 73.3   | 69.1   | 69.1   | 69.1   |
| 72.5° | 3341.2 | 2664.5 | 356.1  | 199.0  | 140.3  | 88.0   | 69.1   | 64.9   | 62.8   | 62.8   | 60.7   |
| 75°   | 2857.3 | 2268.6 | 274.4  | 161.3  | 113.1  | 75.4   | 60.7   | 56.6   | 54.5   | 54.5   | 52.4   |
| 77.5° | 2109.4 | 1625.5 | 203.2  | 127.8  | 88.0   | 60.7   | 52.4   | 50.3   | 48.2   | 46.1   | 46.1   |
| 80°   | 825.3  | 712.2  | 138.3  | 94.3   | 64.9   | 48.2   | 44.0   | 41.9   | 39.8   | 37.7   | 37.7   |
| 82.5° | 255.6  | 215.8  | 79.6   | 62.8   | 46.1   | 37.7   | 35.6   | 33.5   | 31.4   | 29.3   | 29.3   |
| 85°   | 111.0  | 106.8  | 52.4   | 39.8   | 31.4   | 25.1   | 25.1   | 23.0   | 20.9   | 18.9   | 18.9   |
| 87.5° | 54.5   | 52.4   | 29.3   | 18.9   | 16.8   | 12.6   | 12.6   | 10.5   | 8.4    | 8.4    | 8.4    |
| 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)