

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: P675405

Luminaire Tested: **CCW-SA-2A-735-U-SL2**

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675405  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-735-U-SL2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/  
SL2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

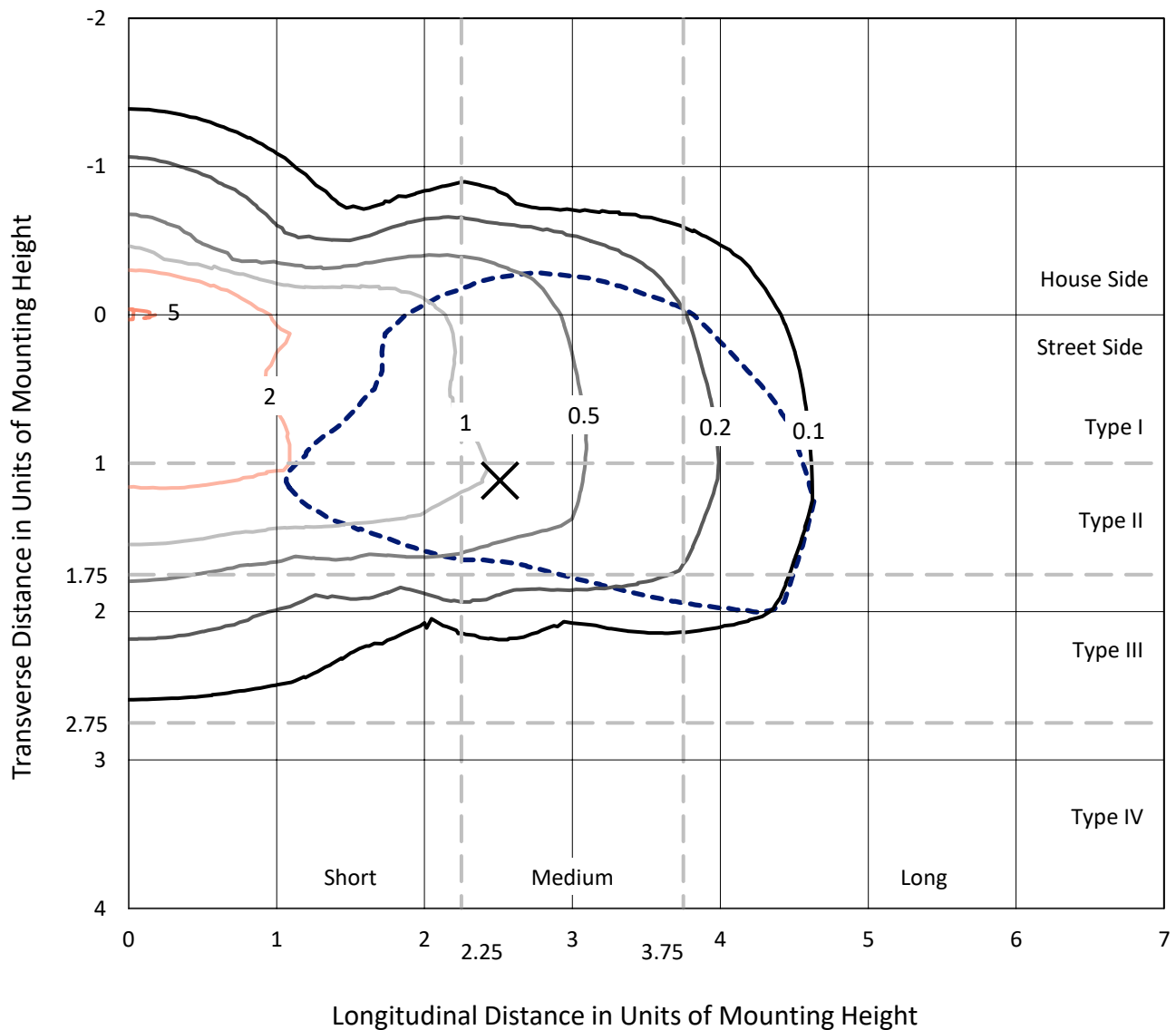
Lumens per Lamp: N/A  
Luminaire Lumens: 5341 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

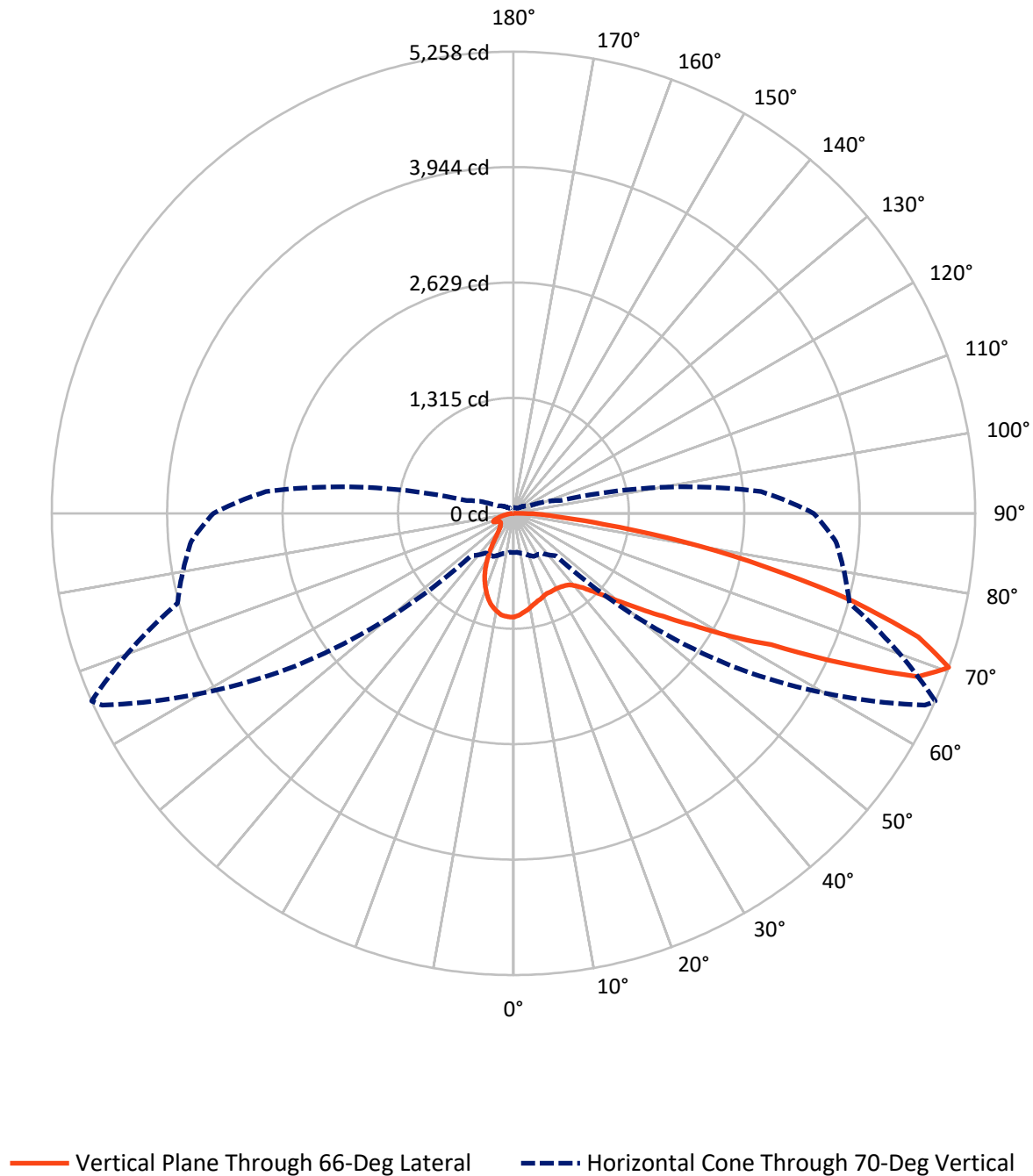
× Max cd  
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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    | 1093.2   | 0.0    | 1093.2 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 4247.8   | 0.0    | 4247.8 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 5341.0   | 0.0    | 5341.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.3  | 2.0       |
| 10°-20°   | 256.8  | 4.8       |
| 20°-30°   | 352.8  | 6.6       |
| 30°-40°   | 472.9  | 8.9       |
| 40°-50°   | 686.2  | 12.8      |
| 50°-60°   | 1043.1 | 19.5      |
| 60°-70°   | 1288.2 | 24.1      |
| 70°-80°   | 958.0  | 17.9      |
| 80°-90°   | 178.7  | 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°    | 5341.0 | 100.0     |
| 0°-180°   | 5341.0 | 100.0     |

**Coefficient of Utilization**



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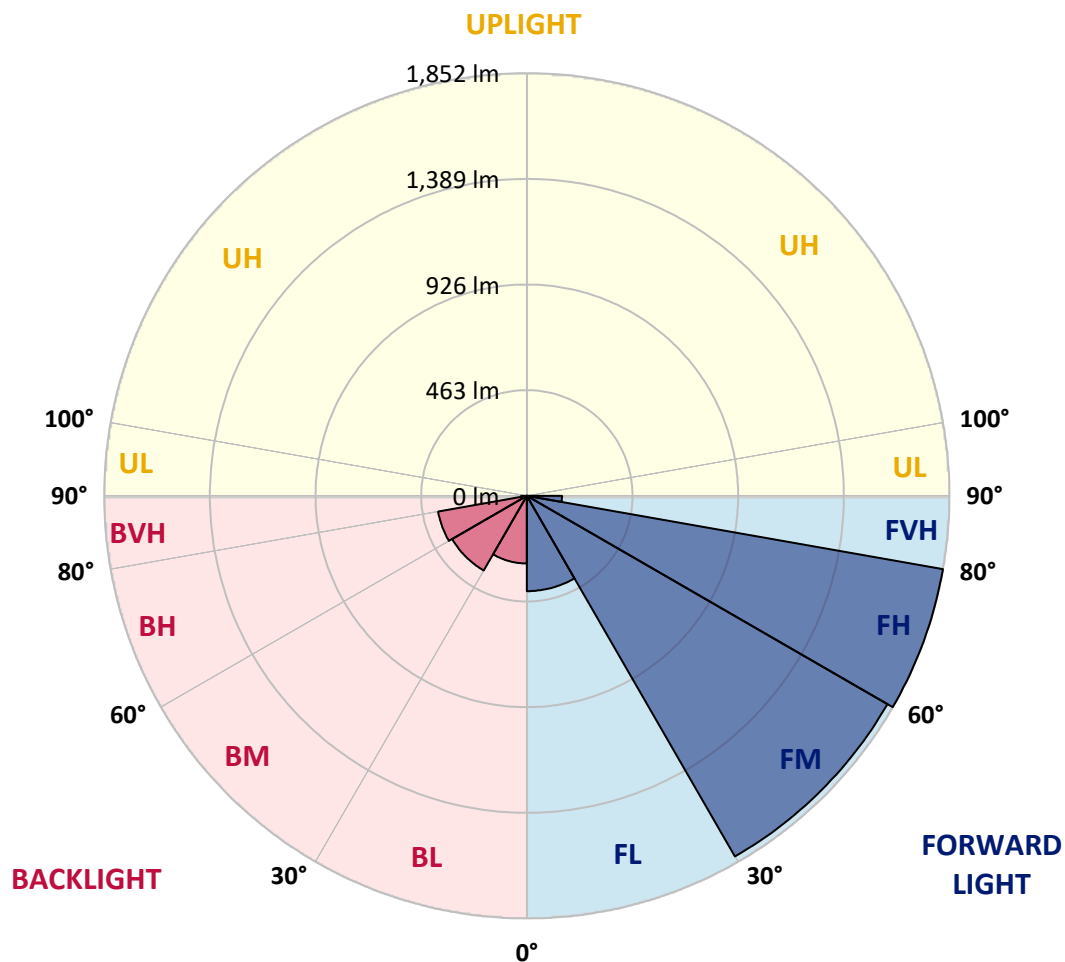
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 417.6  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1824.6 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1851.6 | 34.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 154.0  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 296.3  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 377.6  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 394.6  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.7   | 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°    | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 |
| 2.5°  | 1122.4 | 1128.3 | 1130.3 | 1134.3 | 1144.2 | 1152.2 | 1164.1 | 1170.1 | 1164.1 | 1172.1 | 1172.1 |
| 5°    | 1044.9 | 1037.0 | 1056.8 | 1064.8 | 1076.7 | 1092.6 | 1120.4 | 1142.3 | 1136.3 | 1160.1 | 1180.0 |
| 7.5°  | 979.4  | 979.4  | 985.3  | 1003.2 | 1017.1 | 1040.9 | 1070.7 | 1104.5 | 1114.4 | 1146.2 | 1176.0 |
| 10°   | 919.8  | 927.7  | 927.7  | 955.5  | 963.5  | 991.3  | 1040.9 | 1082.7 | 1084.6 | 1138.3 | 1180.0 |
| 12.5° | 888.0  | 884.0  | 903.9  | 911.8  | 935.7  | 963.5  | 1003.2 | 1054.8 | 1056.8 | 1114.4 | 1172.1 |
| 15°   | 862.2  | 866.1  | 876.1  | 895.9  | 917.8  | 939.6  | 977.4  | 1025.0 | 1035.0 | 1102.5 | 1168.1 |
| 17.5° | 864.1  | 866.1  | 866.1  | 880.0  | 897.9  | 923.7  | 959.5  | 1015.1 | 1021.1 | 1086.6 | 1162.1 |
| 20°   | 876.1  | 868.1  | 874.1  | 880.0  | 892.0  | 915.8  | 945.6  | 993.3  | 999.2  | 1084.6 | 1176.0 |
| 22.5° | 901.9  | 895.9  | 893.9  | 892.0  | 890.0  | 903.9  | 941.6  | 981.3  | 987.3  | 1074.7 | 1182.0 |
| 25°   | 943.6  | 941.6  | 927.7  | 913.8  | 903.9  | 903.9  | 933.7  | 991.3  | 989.3  | 1074.7 | 1186.0 |
| 27.5° | 993.3  | 993.3  | 991.3  | 965.5  | 935.7  | 919.8  | 939.6  | 987.3  | 985.3  | 1074.7 | 1195.9 |
| 30°   | 1060.8 | 1060.8 | 1054.8 | 1031.0 | 977.4  | 931.7  | 943.6  | 983.3  | 989.3  | 1066.8 | 1187.9 |
| 32.5° | 1134.3 | 1132.3 | 1138.3 | 1116.4 | 1060.8 | 987.3  | 967.4  | 991.3  | 997.2  | 1074.7 | 1189.9 |
| 35°   | 1187.9 | 1199.9 | 1219.7 | 1199.9 | 1144.2 | 1044.9 | 1001.2 | 1007.2 | 1011.1 | 1076.7 | 1197.9 |
| 37.5° | 1249.5 | 1263.4 | 1291.2 | 1307.1 | 1247.5 | 1132.3 | 1054.8 | 1033.0 | 1033.0 | 1102.5 | 1199.9 |
| 40°   | 1338.9 | 1325.0 | 1372.7 | 1400.5 | 1376.7 | 1239.6 | 1138.3 | 1080.7 | 1082.7 | 1136.3 | 1225.7 |
| 42.5° | 1404.5 | 1418.4 | 1468.0 | 1517.7 | 1487.9 | 1370.7 | 1229.7 | 1158.1 | 1158.1 | 1186.0 | 1265.4 |
| 45°   | 1478.0 | 1493.9 | 1563.4 | 1623.0 | 1644.8 | 1527.6 | 1354.8 | 1269.4 | 1265.4 | 1283.3 | 1336.9 |
| 47.5° | 1559.4 | 1581.3 | 1660.7 | 1730.3 | 1787.9 | 1690.5 | 1515.7 | 1404.5 | 1402.5 | 1416.4 | 1456.1 |
| 50°   | 1652.8 | 1660.7 | 1726.3 | 1853.4 | 1968.6 | 1907.1 | 1712.4 | 1595.2 | 1585.2 | 1591.2 | 1644.8 |
| 52.5° | 1680.6 | 1674.6 | 1750.1 | 1887.2 | 2097.8 | 2171.3 | 1980.6 | 1811.7 | 1807.7 | 1793.8 | 1863.4 |
| 55°   | 1579.3 | 1599.2 | 1672.7 | 1847.5 | 2203.1 | 2483.2 | 2274.6 | 2107.7 | 2071.9 | 2034.2 | 2117.6 |
| 57.5° | 1376.7 | 1378.7 | 1462.1 | 1668.7 | 2121.6 | 2741.4 | 2773.2 | 2397.7 | 2399.7 | 2298.4 | 2393.8 |
| 60°   | 1070.7 | 1064.8 | 1130.3 | 1317.1 | 1889.2 | 2820.9 | 3317.5 | 2860.6 | 2840.7 | 2562.6 | 2650.0 |
| 62.5° | 772.8  | 760.8  | 774.7  | 884.0  | 1412.4 | 2699.7 | 3851.9 | 3379.1 | 3295.7 | 2832.8 | 2900.3 |
| 65°   | 635.7  | 641.6  | 647.6  | 653.6  | 792.6  | 2226.9 | 4016.8 | 4225.3 | 4114.1 | 3148.6 | 3176.5 |
| 67.5° | 526.4  | 530.4  | 556.2  | 592.0  | 588.0  | 1315.1 | 3826.1 | 5008.0 | 4966.3 | 3540.0 | 3414.8 |
| 70°   | 447.0  | 445.0  | 474.8  | 540.3  | 550.3  | 683.4  | 3029.5 | 5168.9 | 5258.3 | 3961.1 | 3685.0 |
| 72.5° | 357.6  | 361.5  | 387.4  | 474.8  | 540.3  | 576.1  | 1744.2 | 4823.3 | 4821.3 | 4284.9 | 3540.0 |
| 75°   | 256.3  | 256.3  | 292.0  | 393.3  | 522.5  | 570.1  | 965.5  | 3915.4 | 3988.9 | 4026.7 | 3071.2 |
| 77.5° | 168.9  | 176.8  | 204.6  | 294.0  | 490.7  | 558.2  | 611.9  | 2846.7 | 2938.1 | 3011.6 | 2350.1 |
| 80°   | 115.2  | 119.2  | 137.1  | 204.6  | 415.2  | 562.2  | 500.6  | 1915.0 | 1950.8 | 1662.7 | 953.5  |
| 82.5° | 69.5   | 71.5   | 91.4   | 143.0  | 298.0  | 534.4  | 470.8  | 1056.8 | 1035.0 | 502.6  | 274.1  |
| 85°   | 37.7   | 39.7   | 57.6   | 95.4   | 196.7  | 466.8  | 462.9  | 518.5  | 482.7  | 184.7  | 115.2  |
| 87.5° | 13.9   | 13.9   | 25.8   | 47.7   | 113.2  | 319.8  | 403.3  | 307.9  | 288.0  | 93.4   | 53.6   |
| 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°    | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 | 1180.0 |
| 2.5°  | 1182.0 | 1182.0 | 1182.0 | 1182.0 | 1180.0 | 1172.1 | 1178.0 | 1176.0 | 1164.1 | 1166.1 | 1158.1 |
| 5°    | 1178.0 | 1187.9 | 1182.0 | 1174.0 | 1164.1 | 1140.3 | 1132.3 | 1126.4 | 1110.5 | 1104.5 | 1110.5 |
| 7.5°  | 1187.9 | 1180.0 | 1176.0 | 1162.1 | 1122.4 | 1100.5 | 1072.7 | 1039.0 | 1015.1 | 1009.2 | 1015.1 |
| 10°   | 1186.0 | 1186.0 | 1168.1 | 1128.3 | 1090.6 | 1027.0 | 991.3  | 931.7  | 897.9  | 888.0  | 890.0  |
| 12.5° | 1178.0 | 1184.0 | 1156.2 | 1092.6 | 1021.1 | 943.6  | 878.0  | 814.5  | 754.9  | 731.0  | 727.1  |
| 15°   | 1186.0 | 1180.0 | 1130.3 | 1048.9 | 949.6  | 842.3  | 746.9  | 653.6  | 597.9  | 562.2  | 554.2  |
| 17.5° | 1174.0 | 1168.1 | 1096.6 | 989.3  | 856.2  | 719.1  | 599.9  | 498.6  | 443.0  | 429.1  | 429.1  |
| 20°   | 1187.9 | 1150.2 | 1056.8 | 917.8  | 758.9  | 584.0  | 449.0  | 373.5  | 359.6  | 359.6  | 363.5  |
| 22.5° | 1186.0 | 1146.2 | 1023.1 | 848.2  | 641.6  | 441.0  | 333.7  | 311.9  | 313.9  | 329.8  | 327.8  |
| 25°   | 1174.0 | 1138.3 | 975.4  | 770.8  | 518.5  | 331.8  | 276.1  | 270.2  | 284.1  | 302.0  | 300.0  |
| 27.5° | 1172.1 | 1116.4 | 931.7  | 679.4  | 395.3  | 262.2  | 240.4  | 240.4  | 254.3  | 270.2  | 268.2  |
| 30°   | 1160.1 | 1098.6 | 878.0  | 576.1  | 298.0  | 228.5  | 220.5  | 220.5  | 226.5  | 234.4  | 234.4  |
| 32.5° | 1158.1 | 1074.7 | 818.4  | 468.8  | 238.4  | 206.6  | 202.6  | 204.6  | 204.6  | 208.6  | 206.6  |
| 35°   | 1142.3 | 1042.9 | 756.9  | 363.5  | 206.6  | 194.7  | 190.7  | 188.7  | 188.7  | 186.7  | 186.7  |
| 37.5° | 1136.3 | 1023.1 | 693.3  | 282.1  | 192.7  | 184.7  | 180.8  | 174.8  | 172.8  | 172.8  | 170.8  |
| 40°   | 1142.3 | 1003.2 | 631.7  | 228.5  | 180.8  | 176.8  | 170.8  | 162.9  | 160.9  | 160.9  | 160.9  |
| 42.5° | 1164.1 | 1001.2 | 568.1  | 198.7  | 174.8  | 168.9  | 160.9  | 153.0  | 151.0  | 153.0  | 151.0  |
| 45°   | 1213.8 | 1017.1 | 506.6  | 184.7  | 166.9  | 160.9  | 151.0  | 145.0  | 143.0  | 145.0  | 145.0  |
| 47.5° | 1295.2 | 1060.8 | 450.9  | 176.8  | 160.9  | 153.0  | 143.0  | 137.1  | 137.1  | 137.1  | 137.1  |
| 50°   | 1430.3 | 1144.2 | 397.3  | 170.8  | 156.9  | 147.0  | 137.1  | 129.1  | 127.1  | 127.1  | 129.1  |
| 52.5° | 1632.9 | 1287.3 | 353.6  | 166.9  | 151.0  | 139.1  | 129.1  | 123.2  | 119.2  | 117.2  | 119.2  |
| 55°   | 1877.3 | 1495.9 | 339.7  | 162.9  | 143.0  | 133.1  | 123.2  | 115.2  | 111.2  | 111.2  | 109.3  |
| 57.5° | 2139.5 | 1726.3 | 363.5  | 158.9  | 137.1  | 125.2  | 115.2  | 107.3  | 103.3  | 101.3  | 101.3  |
| 60°   | 2423.6 | 1998.4 | 450.9  | 156.9  | 131.1  | 117.2  | 107.3  | 101.3  | 95.4   | 93.4   | 93.4   |
| 62.5° | 2681.8 | 2244.8 | 607.9  | 154.9  | 127.1  | 109.3  | 99.3   | 91.4   | 87.4   | 85.4   | 85.4   |
| 65°   | 2975.8 | 2518.9 | 760.8  | 162.9  | 125.2  | 103.3  | 91.4   | 83.4   | 79.5   | 77.5   | 77.5   |
| 67.5° | 3232.1 | 2757.3 | 850.2  | 182.8  | 131.1  | 95.4   | 81.4   | 75.5   | 73.5   | 71.5   | 71.5   |
| 70°   | 3418.8 | 2830.8 | 570.1  | 200.6  | 141.0  | 89.4   | 73.5   | 69.5   | 65.6   | 65.6   | 65.6   |
| 72.5° | 3168.5 | 2526.9 | 337.7  | 188.7  | 133.1  | 83.4   | 65.6   | 61.6   | 59.6   | 59.6   | 57.6   |
| 75°   | 2709.6 | 2151.4 | 260.2  | 153.0  | 107.3  | 71.5   | 57.6   | 53.6   | 51.6   | 51.6   | 49.7   |
| 77.5° | 2000.4 | 1541.5 | 192.7  | 121.2  | 83.4   | 57.6   | 49.7   | 47.7   | 45.7   | 43.7   | 43.7   |
| 80°   | 782.7  | 675.4  | 131.1  | 89.4   | 61.6   | 45.7   | 41.7   | 39.7   | 37.7   | 35.8   | 35.8   |
| 82.5° | 242.4  | 204.6  | 75.5   | 59.6   | 43.7   | 35.8   | 33.8   | 31.8   | 29.8   | 27.8   | 27.8   |
| 85°   | 105.3  | 101.3  | 49.7   | 37.7   | 29.8   | 23.8   | 23.8   | 21.9   | 19.9   | 17.9   | 17.9   |
| 87.5° | 51.6   | 49.7   | 27.8   | 17.9   | 15.9   | 11.9   | 11.9   | 9.9    | 7.9    | 7.9    | 7.9    |
| 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)