

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: P671283

Luminaire Tested: **CCP-SA-1E-827-U-SL2**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671283  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-827-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL2  
distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4974.2 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

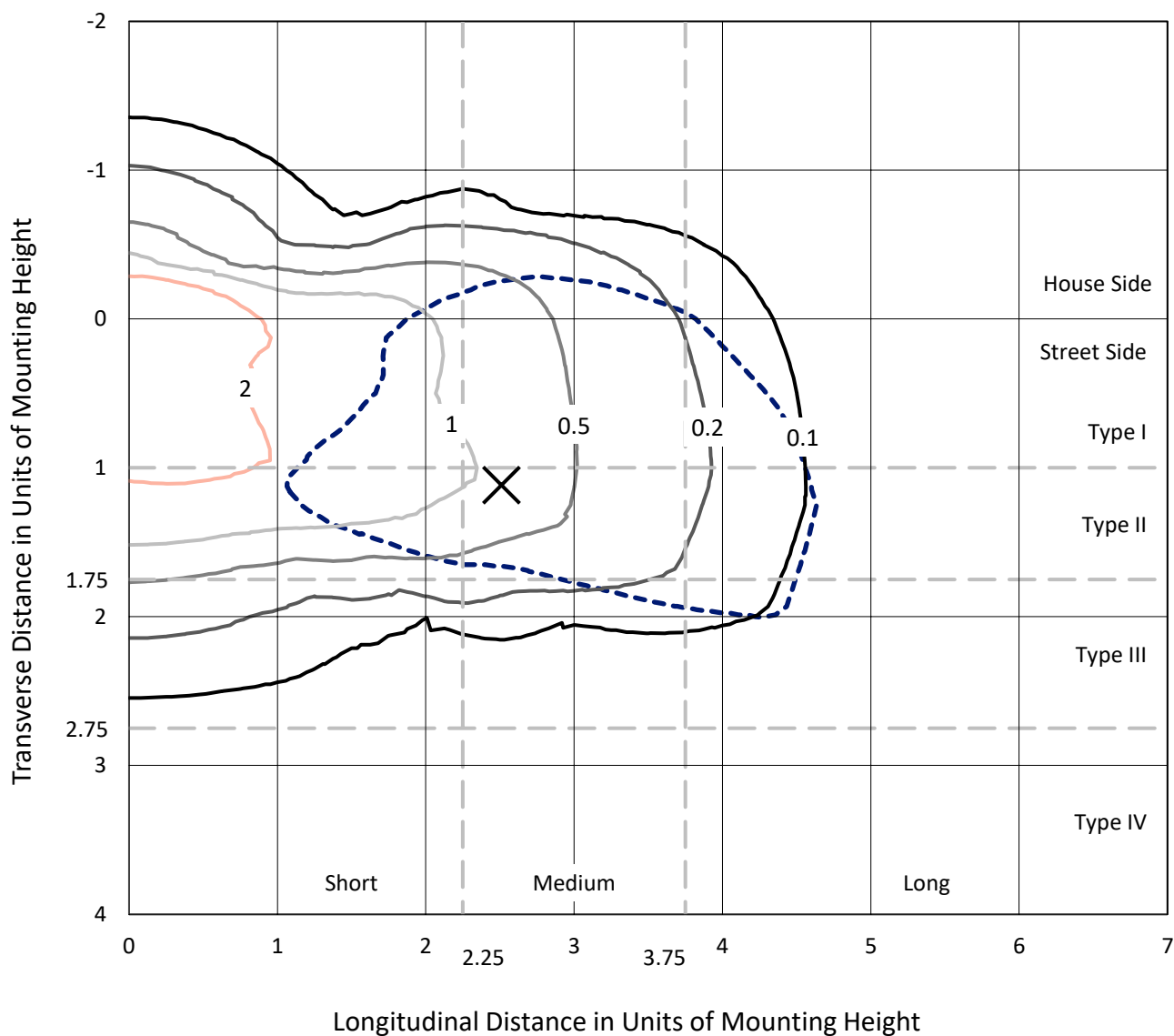
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

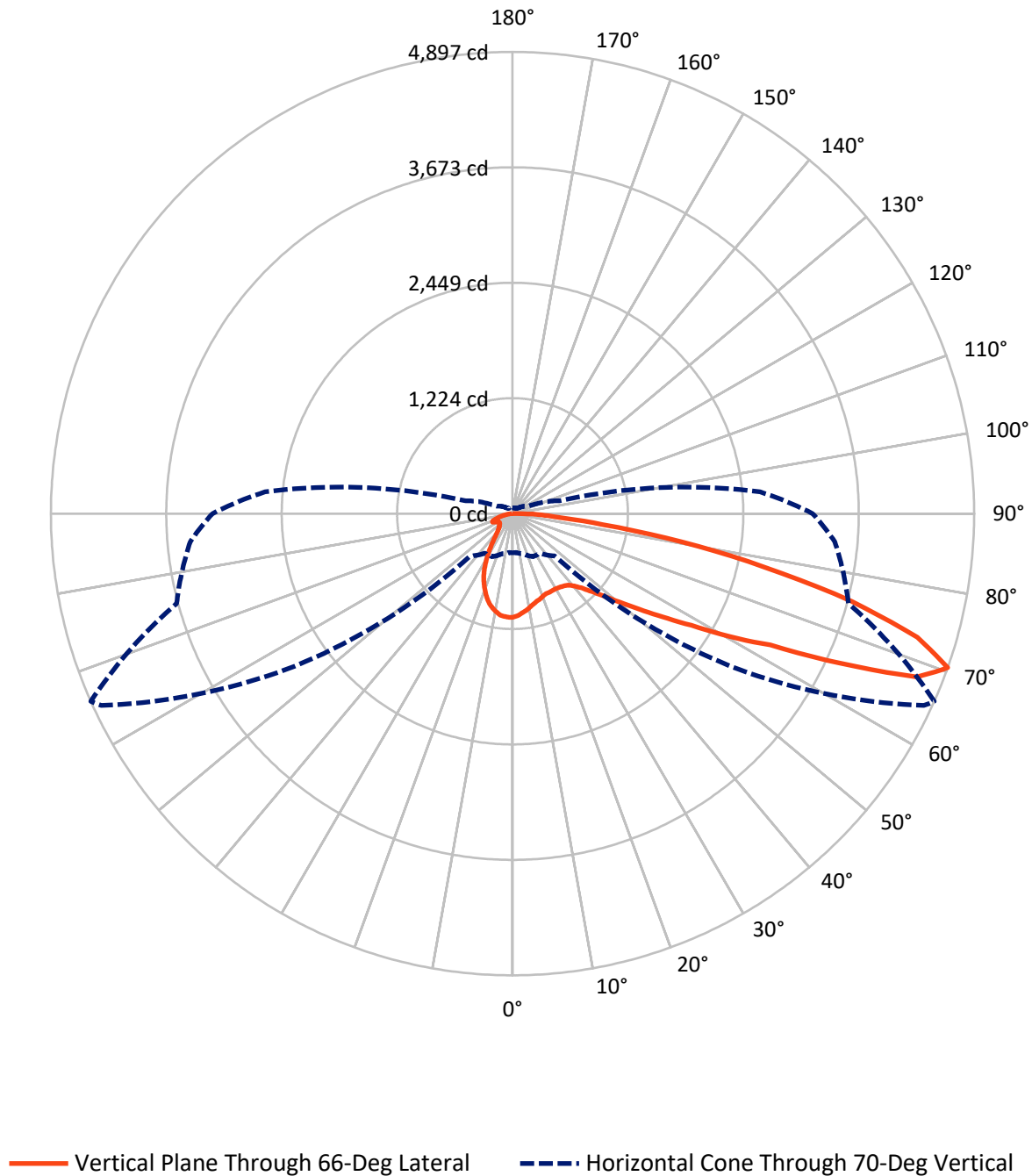


Based on 15 foot mounting height. Maximum calculated value = 4.9 fc

Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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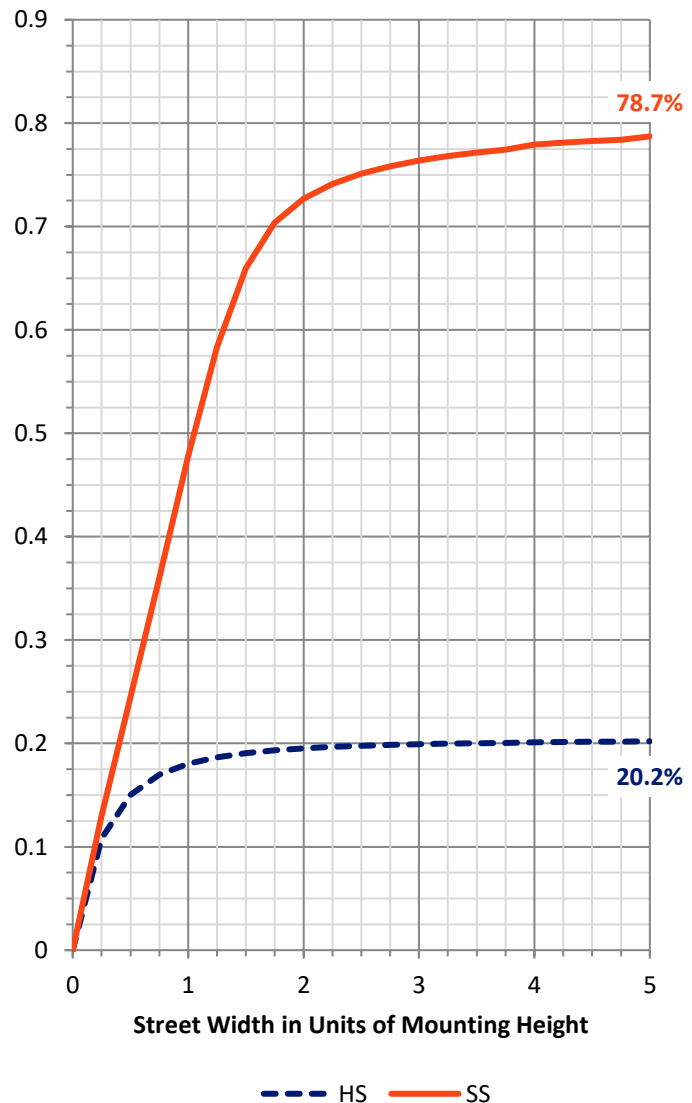
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1018.2   | 0.0    | 1018.2 |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 3956.0   | 0.0    | 3956.0 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 4974.2   | 0.0    | 4974.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.2   | 2.0       |
| 10°-20°   | 239.2  | 4.8       |
| 20°-30°   | 328.5  | 6.6       |
| 30°-40°   | 440.5  | 8.9       |
| 40°-50°   | 639.1  | 12.8      |
| 50°-60°   | 971.4  | 19.5      |
| 60°-70°   | 1199.7 | 24.1      |
| 70°-80°   | 892.2  | 17.9      |
| 80°-90°   | 166.4  | 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°    | 4974.2 | 100.0     |
| 0°-180°   | 4974.2 | 100.0     |

**Coefficient of Utilization**



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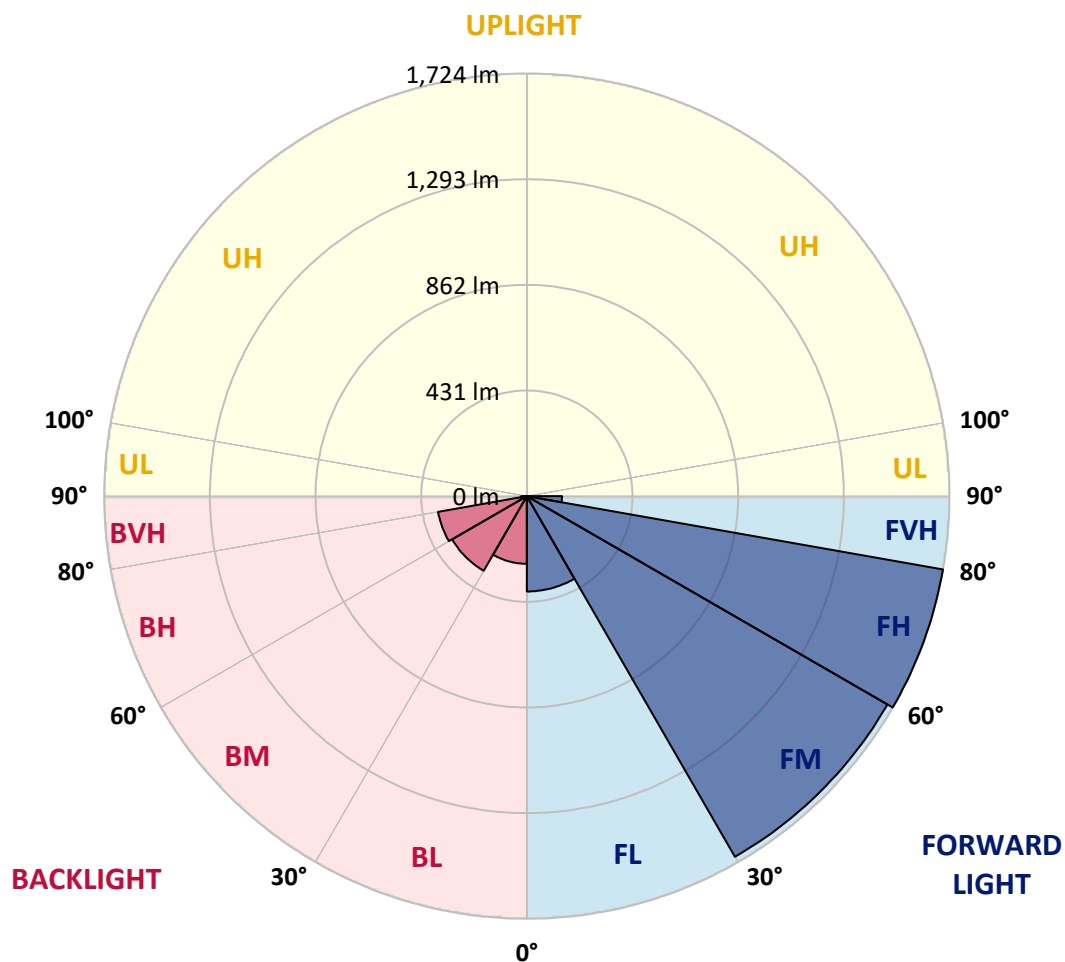
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 388.9  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1699.2 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1724.4 | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 143.5  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 275.9  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 351.7  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 367.6  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 23.0   | 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°    | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 |
| 2.5°  | 1045.3 | 1050.8 | 1052.7 | 1056.4 | 1065.6 | 1073.0 | 1084.1 | 1089.7 | 1084.1 | 1091.5 | 1091.5 |
| 5°    | 973.1  | 965.7  | 984.2  | 991.6  | 1002.7 | 1017.5 | 1043.4 | 1063.8 | 1058.2 | 1080.4 | 1098.9 |
| 7.5°  | 912.1  | 912.1  | 917.6  | 934.3  | 947.2  | 969.4  | 997.2  | 1028.6 | 1037.9 | 1067.5 | 1095.2 |
| 10°   | 856.6  | 864.0  | 864.0  | 889.9  | 897.3  | 923.2  | 969.4  | 1008.3 | 1010.1 | 1060.1 | 1098.9 |
| 12.5° | 827.0  | 823.3  | 841.8  | 849.2  | 871.4  | 897.3  | 934.3  | 982.4  | 984.2  | 1037.9 | 1091.5 |
| 15°   | 802.9  | 806.6  | 815.9  | 834.4  | 854.7  | 875.1  | 910.2  | 954.6  | 963.9  | 1026.8 | 1087.8 |
| 17.5° | 804.8  | 806.6  | 806.6  | 819.6  | 836.2  | 860.3  | 893.6  | 945.4  | 950.9  | 1012.0 | 1082.3 |
| 20°   | 815.9  | 808.5  | 814.0  | 819.6  | 830.7  | 852.9  | 880.6  | 925.0  | 930.6  | 1010.1 | 1095.2 |
| 22.5° | 839.9  | 834.4  | 832.5  | 830.7  | 828.8  | 841.8  | 876.9  | 913.9  | 919.5  | 1000.9 | 1100.8 |
| 25°   | 878.8  | 876.9  | 864.0  | 851.0  | 841.8  | 841.8  | 869.5  | 923.2  | 921.3  | 1000.9 | 1104.5 |
| 27.5° | 925.0  | 925.0  | 923.2  | 899.1  | 871.4  | 856.6  | 875.1  | 919.5  | 917.6  | 1000.9 | 1113.7 |
| 30°   | 987.9  | 987.9  | 982.4  | 960.2  | 910.2  | 867.7  | 878.8  | 915.8  | 921.3  | 993.5  | 1106.3 |
| 32.5° | 1056.4 | 1054.5 | 1060.1 | 1039.7 | 987.9  | 919.5  | 901.0  | 923.2  | 928.7  | 1000.9 | 1108.2 |
| 35°   | 1106.3 | 1117.4 | 1135.9 | 1117.4 | 1065.6 | 973.1  | 932.4  | 938.0  | 941.7  | 1002.7 | 1115.6 |
| 37.5° | 1163.7 | 1176.6 | 1202.5 | 1217.3 | 1161.8 | 1054.5 | 982.4  | 962.0  | 962.0  | 1026.8 | 1117.4 |
| 40°   | 1246.9 | 1234.0 | 1278.4 | 1304.3 | 1282.1 | 1154.4 | 1060.1 | 1006.4 | 1008.3 | 1058.2 | 1141.5 |
| 42.5° | 1308.0 | 1320.9 | 1367.2 | 1413.4 | 1385.7 | 1276.5 | 1145.2 | 1078.6 | 1078.6 | 1104.5 | 1178.5 |
| 45°   | 1376.4 | 1391.2 | 1456.0 | 1511.5 | 1531.8 | 1422.7 | 1261.7 | 1182.2 | 1178.5 | 1195.1 | 1245.1 |
| 47.5° | 1452.3 | 1472.6 | 1546.6 | 1611.4 | 1665.0 | 1574.4 | 1411.6 | 1308.0 | 1306.1 | 1319.1 | 1356.1 |
| 50°   | 1539.2 | 1546.6 | 1607.7 | 1726.1 | 1833.4 | 1776.0 | 1594.7 | 1485.6 | 1476.3 | 1481.9 | 1531.8 |
| 52.5° | 1565.1 | 1559.6 | 1629.9 | 1757.5 | 1953.7 | 2022.1 | 1844.5 | 1687.2 | 1683.5 | 1670.6 | 1735.3 |
| 55°   | 1470.8 | 1489.3 | 1557.7 | 1720.5 | 2051.7 | 2312.6 | 2118.3 | 1962.9 | 1929.6 | 1894.4 | 1972.2 |
| 57.5° | 1282.1 | 1283.9 | 1361.6 | 1554.0 | 1975.9 | 2553.1 | 2582.7 | 2233.0 | 2234.9 | 2140.5 | 2229.3 |
| 60°   | 997.2  | 991.6  | 1052.7 | 1226.6 | 1759.4 | 2627.1 | 3089.6 | 2664.1 | 2645.6 | 2386.6 | 2468.0 |
| 62.5° | 719.7  | 708.6  | 721.5  | 823.3  | 1315.4 | 2514.2 | 3587.2 | 3146.9 | 3069.2 | 2638.2 | 2701.1 |
| 65°   | 592.0  | 597.6  | 603.1  | 608.7  | 738.2  | 2073.9 | 3740.8 | 3935.1 | 3831.4 | 2932.3 | 2958.2 |
| 67.5° | 490.3  | 494.0  | 518.0  | 551.3  | 547.6  | 1224.7 | 3563.2 | 4664.0 | 4625.1 | 3296.8 | 3180.2 |
| 70°   | 416.3  | 414.4  | 442.2  | 503.2  | 512.5  | 636.4  | 2821.3 | 4813.8 | 4897.1 | 3689.0 | 3431.8 |
| 72.5° | 333.0  | 336.7  | 360.8  | 442.2  | 503.2  | 536.5  | 1624.3 | 4491.9 | 4490.1 | 3990.6 | 3296.8 |
| 75°   | 238.7  | 238.7  | 272.0  | 366.3  | 486.6  | 531.0  | 899.1  | 3646.4 | 3714.9 | 3750.0 | 2860.2 |
| 77.5° | 157.3  | 164.7  | 190.6  | 273.8  | 457.0  | 519.9  | 569.8  | 2651.1 | 2736.2 | 2804.7 | 2188.6 |
| 80°   | 107.3  | 111.0  | 127.7  | 190.6  | 386.7  | 523.6  | 466.2  | 1783.4 | 1816.7 | 1548.5 | 888.0  |
| 82.5° | 64.8   | 66.6   | 85.1   | 133.2  | 277.5  | 497.7  | 438.5  | 984.2  | 963.9  | 468.1  | 255.3  |
| 85°   | 35.2   | 37.0   | 53.7   | 88.8   | 183.2  | 434.8  | 431.1  | 482.9  | 449.6  | 172.1  | 107.3  |
| 87.5° | 13.0   | 13.0   | 24.1   | 44.4   | 105.5  | 297.9  | 375.6  | 286.8  | 268.3  | 87.0   | 50.0   |
| 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°    | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 | 1098.9 |
| 2.5°  | 1100.8 | 1100.8 | 1100.8 | 1100.8 | 1098.9 | 1091.5 | 1097.1 | 1095.2 | 1084.1 | 1086.0 | 1078.6 |
| 5°    | 1097.1 | 1106.3 | 1100.8 | 1093.4 | 1084.1 | 1061.9 | 1054.5 | 1049.0 | 1034.2 | 1028.6 | 1034.2 |
| 7.5°  | 1106.3 | 1098.9 | 1095.2 | 1082.3 | 1045.3 | 1024.9 | 999.0  | 967.6  | 945.4  | 939.8  | 945.4  |
| 10°   | 1104.5 | 1104.5 | 1087.8 | 1050.8 | 1015.7 | 956.5  | 923.2  | 867.7  | 836.2  | 827.0  | 828.8  |
| 12.5° | 1097.1 | 1102.6 | 1076.7 | 1017.5 | 950.9  | 878.8  | 817.7  | 758.5  | 703.0  | 680.8  | 677.1  |
| 15°   | 1104.5 | 1098.9 | 1052.7 | 976.8  | 884.3  | 784.4  | 695.6  | 608.7  | 556.9  | 523.6  | 516.2  |
| 17.5° | 1093.4 | 1087.8 | 1021.2 | 921.3  | 797.4  | 669.7  | 558.7  | 464.4  | 412.6  | 399.6  | 399.6  |
| 20°   | 1106.3 | 1071.2 | 984.2  | 854.7  | 706.7  | 543.9  | 418.1  | 347.8  | 334.9  | 334.9  | 338.6  |
| 22.5° | 1104.5 | 1067.5 | 952.8  | 790.0  | 597.6  | 410.7  | 310.8  | 290.5  | 292.3  | 307.1  | 305.3  |
| 25°   | 1093.4 | 1060.1 | 908.4  | 717.8  | 482.9  | 309.0  | 257.2  | 251.6  | 264.6  | 281.2  | 279.4  |
| 27.5° | 1091.5 | 1039.7 | 867.7  | 632.7  | 368.2  | 244.2  | 223.9  | 223.9  | 236.8  | 251.6  | 249.8  |
| 30°   | 1080.4 | 1023.1 | 817.7  | 536.5  | 277.5  | 212.8  | 205.4  | 205.4  | 210.9  | 218.3  | 218.3  |
| 32.5° | 1078.6 | 1000.9 | 762.2  | 436.6  | 222.0  | 192.4  | 188.7  | 190.6  | 190.6  | 194.3  | 192.4  |
| 35°   | 1063.8 | 971.3  | 704.9  | 338.6  | 192.4  | 181.3  | 177.6  | 175.8  | 175.8  | 173.9  | 173.9  |
| 37.5° | 1058.2 | 952.8  | 645.7  | 262.7  | 179.5  | 172.1  | 168.4  | 162.8  | 161.0  | 161.0  | 159.1  |
| 40°   | 1063.8 | 934.3  | 588.3  | 212.8  | 168.4  | 164.7  | 159.1  | 151.7  | 149.9  | 149.9  | 149.9  |
| 42.5° | 1084.1 | 932.4  | 529.1  | 185.0  | 162.8  | 157.3  | 149.9  | 142.5  | 140.6  | 142.5  | 140.6  |
| 45°   | 1130.4 | 947.2  | 471.8  | 172.1  | 155.4  | 149.9  | 140.6  | 135.1  | 133.2  | 135.1  | 135.1  |
| 47.5° | 1206.2 | 987.9  | 420.0  | 164.7  | 149.9  | 142.5  | 133.2  | 127.7  | 127.7  | 127.7  | 127.7  |
| 50°   | 1332.0 | 1065.6 | 370.0  | 159.1  | 146.2  | 136.9  | 127.7  | 120.3  | 118.4  | 118.4  | 120.3  |
| 52.5° | 1520.7 | 1198.8 | 329.3  | 155.4  | 140.6  | 129.5  | 120.3  | 114.7  | 111.0  | 109.2  | 111.0  |
| 55°   | 1748.3 | 1393.1 | 316.4  | 151.7  | 133.2  | 124.0  | 114.7  | 107.3  | 103.6  | 103.6  | 101.8  |
| 57.5° | 1992.5 | 1607.7 | 338.6  | 148.0  | 127.7  | 116.6  | 107.3  | 99.9   | 96.2   | 94.4   | 94.4   |
| 60°   | 2257.1 | 1861.1 | 420.0  | 146.2  | 122.1  | 109.2  | 99.9   | 94.4   | 88.8   | 87.0   | 87.0   |
| 62.5° | 2497.6 | 2090.6 | 566.1  | 144.3  | 118.4  | 101.8  | 92.5   | 85.1   | 81.4   | 79.6   | 79.6   |
| 65°   | 2771.4 | 2345.9 | 708.6  | 151.7  | 116.6  | 96.2   | 85.1   | 77.7   | 74.0   | 72.2   | 72.2   |
| 67.5° | 3010.0 | 2567.9 | 791.8  | 170.2  | 122.1  | 88.8   | 75.9   | 70.3   | 68.5   | 66.6   | 66.6   |
| 70°   | 3183.9 | 2636.3 | 531.0  | 186.9  | 131.4  | 83.3   | 68.5   | 64.8   | 61.1   | 61.1   | 61.1   |
| 72.5° | 2950.8 | 2353.3 | 314.5  | 175.8  | 124.0  | 77.7   | 61.1   | 57.4   | 55.5   | 55.5   | 53.7   |
| 75°   | 2523.5 | 2003.6 | 242.4  | 142.5  | 99.9   | 66.6   | 53.7   | 50.0   | 48.1   | 48.1   | 46.3   |
| 77.5° | 1863.0 | 1435.6 | 179.5  | 112.9  | 77.7   | 53.7   | 46.3   | 44.4   | 42.6   | 40.7   | 40.7   |
| 80°   | 728.9  | 629.0  | 122.1  | 83.3   | 57.4   | 42.6   | 38.9   | 37.0   | 35.2   | 33.3   | 33.3   |
| 82.5° | 225.7  | 190.6  | 70.3   | 55.5   | 40.7   | 33.3   | 31.5   | 29.6   | 27.8   | 25.9   | 25.9   |
| 85°   | 98.1   | 94.4   | 46.3   | 35.2   | 27.8   | 22.2   | 22.2   | 20.4   | 18.5   | 16.7   | 16.7   |
| 87.5° | 48.1   | 46.3   | 25.9   | 16.7   | 14.8   | 11.1   | 11.1   | 9.3    | 7.4    | 7.4    | 7.4    |
| 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)