

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: P671516

Luminaire Tested: **CCP-SA-1E-730-U-SL4**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671516  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-730-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL4 distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

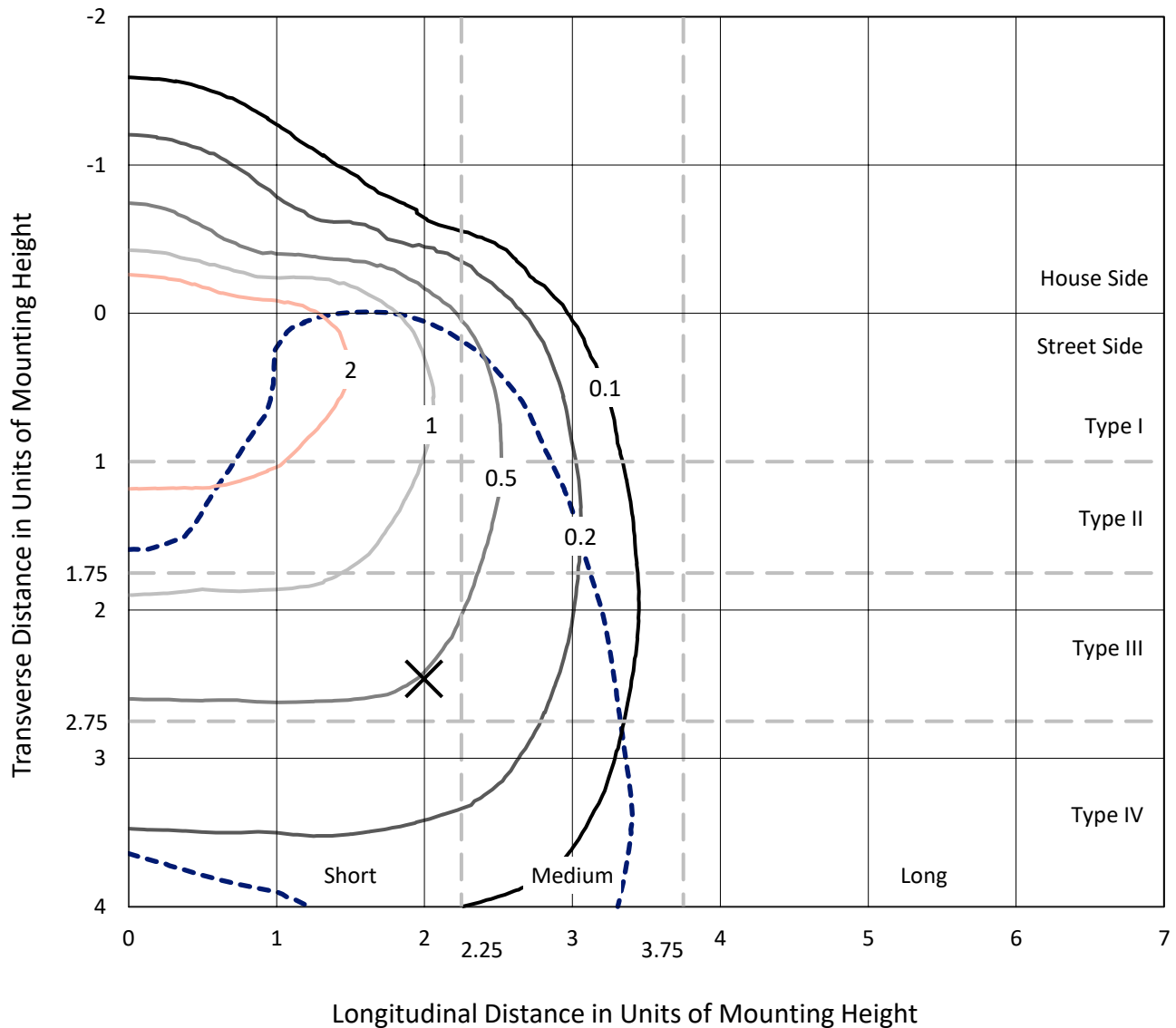
Lumens per Lamp: N/A  
Luminaire Lumens: 6100.8 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

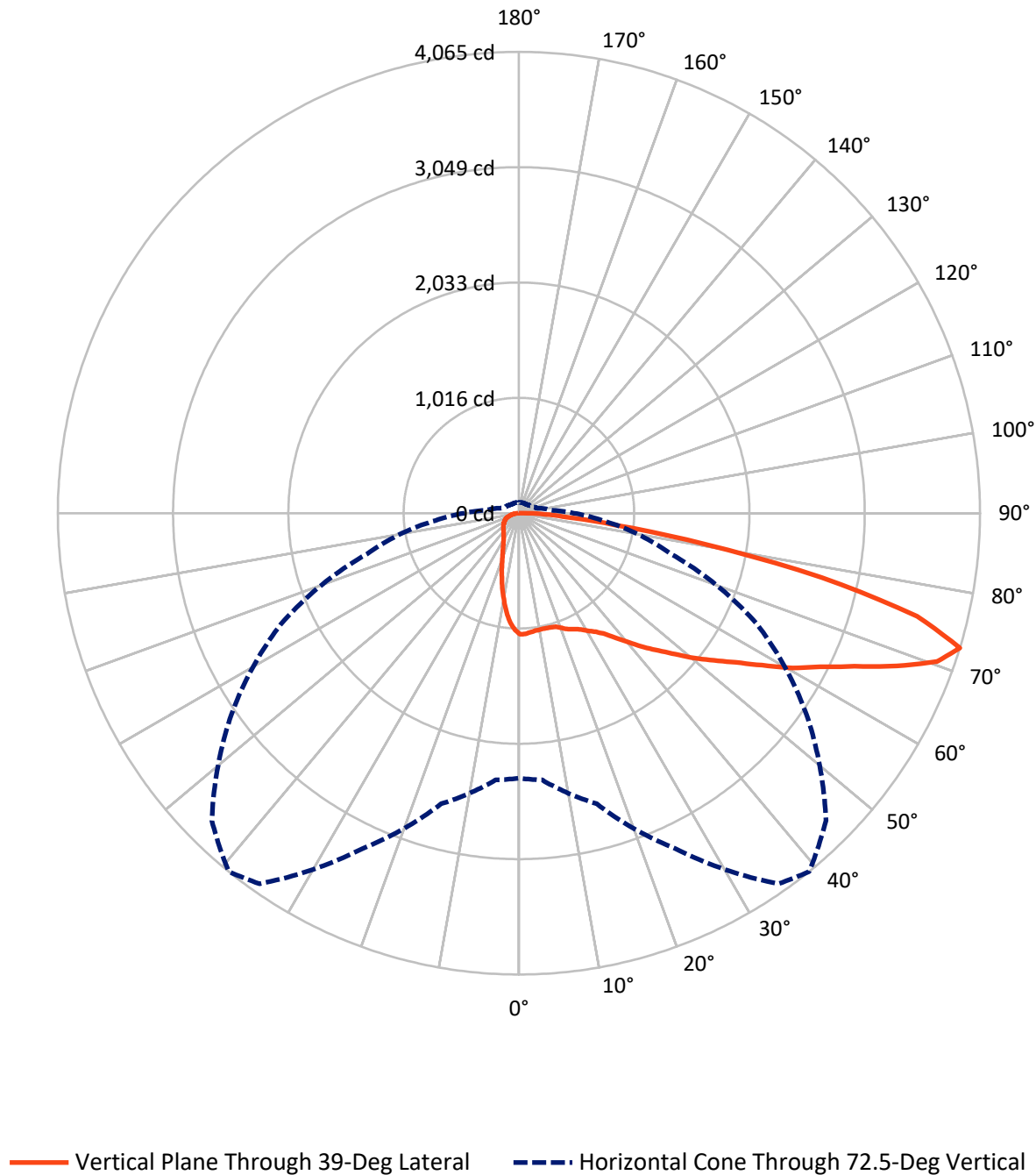


Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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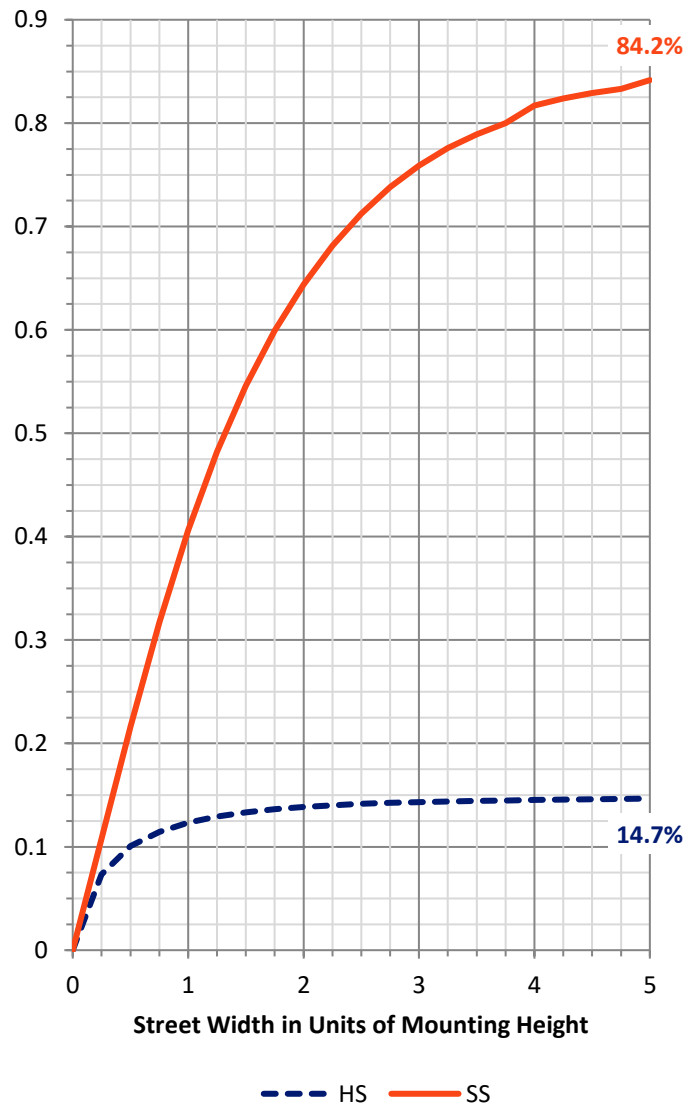
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 906.7    | 0.0    | 906.7  |
|                    | % Fixture | 14.9     | 0.0    | 14.9   |
| <b>Street Side</b> | Lumens    | 5194.1   | 0.0    | 5194.1 |
|                    | % Fixture | 85.1     | 0.0    | 85.1   |
| <b>Total</b>       | Lumens    | 6100.8   | 0.0    | 6100.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.3   | 1.5       |
| 10°-20°   | 240.8  | 3.9       |
| 20°-30°   | 366.9  | 6.0       |
| 30°-40°   | 536.7  | 8.8       |
| 40°-50°   | 821.7  | 13.5      |
| 50°-60°   | 1205.2 | 19.8      |
| 60°-70°   | 1537.1 | 25.2      |
| 70°-80°   | 1110.6 | 18.2      |
| 80°-90°   | 187.3  | 3.1       |
| 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°    | 6100.8 | 100.0     |
| 0°-180°   | 6100.8 | 100.0     |

**Coefficient of Utilization**



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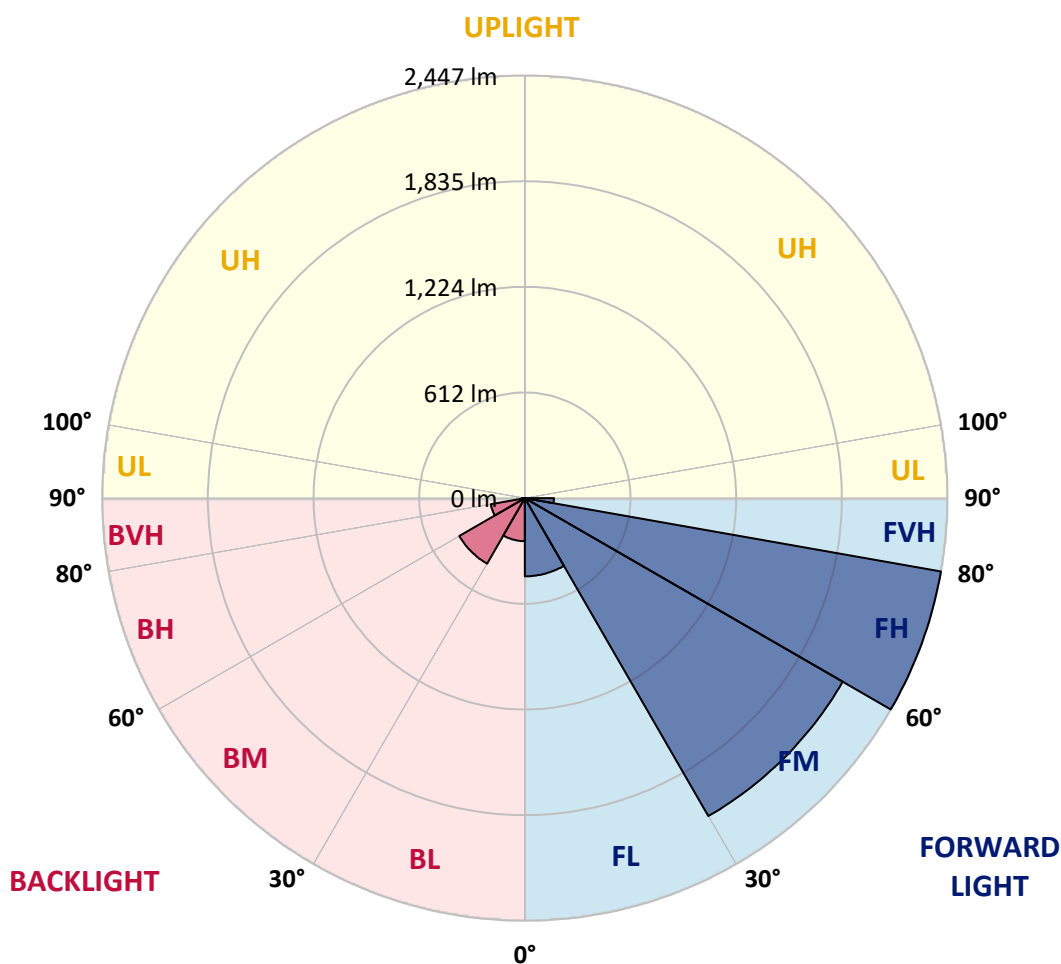
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 452.8  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 2125.7 | 34.8      |                         |      |         |
| FH   | (60°-80°)   | 2447.3 | 40.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 168.4  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 249.4  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 438.0  | 7.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 200.3  | 3.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 19.0   | 0.3       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 |
| 2.5°  | 1084.0 | 1086.2 | 1081.7 | 1077.1 | 1074.8 | 1065.6 | 1074.8 | 1070.2 | 1065.6 | 1065.6 | 1065.6 |
| 5°    | 1070.2 | 1072.5 | 1072.5 | 1067.9 | 1070.2 | 1054.2 | 1051.9 | 1054.2 | 1047.3 | 1042.7 | 1040.4 |
| 7.5°  | 1049.6 | 1054.2 | 1063.3 | 1061.0 | 1051.9 | 1045.0 | 1047.3 | 1045.0 | 1033.5 | 1026.7 | 1008.3 |
| 10°   | 1033.5 | 1038.1 | 1042.7 | 1047.3 | 1045.0 | 1042.7 | 1040.4 | 1031.2 | 1029.0 | 1012.9 | 994.6  |
| 12.5° | 1017.5 | 1017.5 | 1019.8 | 1038.1 | 1040.4 | 1040.4 | 1026.7 | 1026.7 | 1019.8 | 1017.5 | 990.0  |
| 15°   | 1001.5 | 1008.3 | 1026.7 | 1031.2 | 1040.4 | 1045.0 | 1038.1 | 1038.1 | 1026.7 | 1010.6 | 990.0  |
| 17.5° | 1006.0 | 1017.5 | 1035.8 | 1047.3 | 1051.9 | 1051.9 | 1061.0 | 1054.2 | 1038.1 | 1029.0 | 1008.3 |
| 20°   | 1029.0 | 1031.2 | 1054.2 | 1074.8 | 1079.4 | 1079.4 | 1070.2 | 1063.3 | 1051.9 | 1035.8 | 1008.3 |
| 22.5° | 1042.7 | 1058.7 | 1086.2 | 1097.7 | 1111.4 | 1111.4 | 1100.0 | 1084.0 | 1067.9 | 1051.9 | 1022.1 |
| 25°   | 1102.3 | 1104.6 | 1116.0 | 1134.4 | 1141.2 | 1132.1 | 1120.6 | 1102.3 | 1081.7 | 1065.6 | 1038.1 |
| 27.5° | 1143.5 | 1155.0 | 1168.7 | 1177.9 | 1166.4 | 1159.6 | 1150.4 | 1129.8 | 1113.7 | 1100.0 | 1061.0 |
| 30°   | 1219.2 | 1205.4 | 1214.6 | 1219.2 | 1198.5 | 1203.1 | 1177.9 | 1159.6 | 1141.2 | 1141.2 | 1097.7 |
| 32.5° | 1265.0 | 1276.4 | 1267.3 | 1265.0 | 1248.9 | 1246.7 | 1230.6 | 1210.0 | 1198.5 | 1212.3 | 1152.7 |
| 35°   | 1345.2 | 1338.3 | 1338.3 | 1336.0 | 1317.7 | 1306.2 | 1306.2 | 1269.6 | 1281.0 | 1310.8 | 1237.5 |
| 37.5° | 1386.4 | 1384.2 | 1397.9 | 1409.4 | 1391.0 | 1397.9 | 1391.0 | 1375.0 | 1379.6 | 1432.3 | 1342.9 |
| 40°   | 1427.7 | 1443.7 | 1471.2 | 1475.8 | 1487.3 | 1496.4 | 1491.9 | 1489.6 | 1507.9 | 1592.7 | 1485.0 |
| 42.5° | 1466.7 | 1480.4 | 1521.7 | 1558.3 | 1585.8 | 1615.6 | 1617.9 | 1617.9 | 1677.5 | 1798.9 | 1656.9 |
| 45°   | 1517.1 | 1528.5 | 1585.8 | 1659.2 | 1705.0 | 1725.6 | 1743.9 | 1764.6 | 1844.8 | 1989.2 | 1840.2 |
| 47.5° | 1585.8 | 1595.0 | 1663.7 | 1755.4 | 1844.8 | 1856.2 | 1892.9 | 1915.8 | 2037.3 | 2183.9 | 2028.1 |
| 50°   | 1684.4 | 1677.5 | 1732.5 | 1865.4 | 1952.5 | 2007.5 | 2060.2 | 2101.4 | 2220.6 | 2381.0 | 2174.8 |
| 52.5° | 1764.6 | 1764.6 | 1805.8 | 1982.3 | 2101.4 | 2154.2 | 2209.1 | 2266.4 | 2403.9 | 2578.1 | 2293.9 |
| 55°   | 1902.1 | 1888.3 | 1913.5 | 2096.9 | 2268.7 | 2319.1 | 2424.6 | 2472.7 | 2605.6 | 2724.8 | 2394.8 |
| 57.5° | 1996.0 | 2002.9 | 2032.7 | 2248.1 | 2465.8 | 2527.7 | 2633.1 | 2667.5 | 2784.4 | 2878.3 | 2468.1 |
| 60°   | 2119.8 | 2096.9 | 2161.0 | 2415.4 | 2683.5 | 2770.6 | 2857.7 | 2878.3 | 2965.4 | 2976.9 | 2502.5 |
| 62.5° | 2238.9 | 2234.4 | 2289.4 | 2582.7 | 2917.3 | 2979.1 | 3068.5 | 3091.4 | 3128.1 | 3054.8 | 2454.4 |
| 65°   | 2312.3 | 2342.1 | 2445.2 | 2766.0 | 3183.1 | 3251.9 | 3341.2 | 3295.4 | 3254.1 | 2986.0 | 2218.3 |
| 67.5° | 2413.1 | 2426.9 | 2585.0 | 2965.4 | 3490.2 | 3593.3 | 3671.2 | 3490.2 | 3183.1 | 2704.1 | 1867.7 |
| 70°   | 2436.0 | 2472.7 | 2678.9 | 3173.9 | 3806.4 | 3911.8 | 3916.4 | 3423.7 | 2924.1 | 2200.0 | 1354.4 |
| 72.5° | 2335.2 | 2360.4 | 2651.4 | 3261.0 | 3987.5 | 4065.4 | 3829.3 | 3096.0 | 2316.9 | 1386.4 | 737.9  |
| 75°   | 1963.9 | 2035.0 | 2307.7 | 2992.9 | 3655.2 | 3625.4 | 3245.0 | 2362.7 | 1391.0 | 614.2  | 311.7  |
| 77.5° | 1368.1 | 1370.4 | 1654.6 | 2177.1 | 2736.2 | 2729.4 | 2314.6 | 1370.4 | 595.8  | 247.5  | 183.3  |
| 80°   | 607.3  | 650.8  | 822.7  | 1173.3 | 1661.4 | 1661.4 | 1349.8 | 680.6  | 297.9  | 160.4  | 126.0  |
| 82.5° | 357.5  | 371.2  | 440.0  | 547.7  | 809.0  | 852.5  | 646.2  | 453.7  | 204.0  | 100.8  | 77.9   |
| 85°   | 263.5  | 286.5  | 327.7  | 330.0  | 382.7  | 389.6  | 357.5  | 394.2  | 139.8  | 55.0   | 64.2   |
| 87.5° | 197.1  | 210.8  | 261.2  | 217.7  | 204.0  | 192.5  | 220.0  | 403.3  | 52.7   | 27.5   | 20.6   |
| 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°    | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 | 1067.9 |
| 2.5°  | 1056.5 | 1056.5 | 1051.9 | 1042.7 | 1042.7 | 1024.4 | 1029.0 | 1033.5 | 1022.1 | 1022.1 | 1024.4 |
| 5°    | 1040.4 | 1031.2 | 1019.8 | 1006.0 | 996.9  | 971.7  | 967.1  | 951.0  | 948.7  | 944.2  | 937.3  |
| 7.5°  | 1008.3 | 994.6  | 974.0  | 953.3  | 923.5  | 900.6  | 873.1  | 850.2  | 841.0  | 834.2  | 831.9  |
| 10°   | 978.5  | 976.2  | 941.9  | 900.6  | 854.8  | 811.2  | 770.0  | 740.2  | 721.9  | 710.4  | 708.1  |
| 12.5° | 978.5  | 960.2  | 912.1  | 854.8  | 788.3  | 724.2  | 671.5  | 630.2  | 605.0  | 586.7  | 579.8  |
| 15°   | 974.0  | 955.6  | 891.5  | 804.4  | 728.7  | 641.7  | 568.3  | 524.8  | 488.1  | 469.8  | 472.1  |
| 17.5° | 978.5  | 951.0  | 861.7  | 767.7  | 662.3  | 568.3  | 481.2  | 428.5  | 391.9  | 378.1  | 375.8  |
| 20°   | 980.8  | 946.5  | 838.7  | 717.3  | 593.5  | 488.1  | 405.6  | 355.2  | 327.7  | 318.5  | 318.5  |
| 22.5° | 976.2  | 932.7  | 804.4  | 657.7  | 534.0  | 421.7  | 352.9  | 309.4  | 291.0  | 279.6  | 284.2  |
| 25°   | 996.9  | 930.4  | 772.3  | 607.3  | 465.2  | 366.7  | 314.0  | 281.9  | 270.4  | 263.5  | 265.8  |
| 27.5° | 1001.5 | 930.4  | 747.1  | 550.0  | 405.6  | 325.4  | 284.2  | 263.5  | 254.4  | 249.8  | 247.5  |
| 30°   | 1019.8 | 935.0  | 717.3  | 492.7  | 357.5  | 293.3  | 261.2  | 249.8  | 242.9  | 240.6  | 240.6  |
| 32.5° | 1070.2 | 948.7  | 685.2  | 444.6  | 316.2  | 265.8  | 245.2  | 236.0  | 231.5  | 229.2  | 231.5  |
| 35°   | 1129.8 | 985.4  | 650.8  | 394.2  | 286.5  | 247.5  | 231.5  | 224.6  | 222.3  | 222.3  | 222.3  |
| 37.5° | 1221.4 | 1040.4 | 621.0  | 352.9  | 261.2  | 229.2  | 217.7  | 215.4  | 213.1  | 215.4  | 215.4  |
| 40°   | 1326.9 | 1100.0 | 593.5  | 320.8  | 242.9  | 217.7  | 206.2  | 206.2  | 204.0  | 206.2  | 208.5  |
| 42.5° | 1448.3 | 1173.3 | 566.0  | 288.7  | 226.9  | 208.5  | 199.4  | 197.1  | 194.8  | 199.4  | 201.7  |
| 45°   | 1615.6 | 1274.2 | 547.7  | 270.4  | 215.4  | 199.4  | 190.2  | 190.2  | 187.9  | 187.9  | 192.5  |
| 47.5° | 1755.4 | 1370.4 | 547.7  | 252.1  | 208.5  | 192.5  | 183.3  | 183.3  | 178.7  | 181.0  | 181.0  |
| 50°   | 1872.3 | 1452.9 | 559.2  | 247.5  | 199.4  | 185.6  | 178.7  | 174.2  | 171.9  | 171.9  | 171.9  |
| 52.5° | 1950.2 | 1503.3 | 568.3  | 242.9  | 194.8  | 176.5  | 171.9  | 169.6  | 165.0  | 162.7  | 165.0  |
| 55°   | 2028.1 | 1537.7 | 570.6  | 242.9  | 187.9  | 167.3  | 162.7  | 162.7  | 158.1  | 155.8  | 155.8  |
| 57.5° | 2057.9 | 1523.9 | 538.5  | 238.3  | 183.3  | 160.4  | 155.8  | 153.5  | 151.2  | 149.0  | 149.0  |
| 60°   | 2044.2 | 1473.5 | 467.5  | 226.9  | 178.7  | 155.8  | 146.7  | 146.7  | 146.7  | 142.1  | 144.4  |
| 62.5° | 1950.2 | 1301.7 | 375.8  | 208.5  | 171.9  | 146.7  | 137.5  | 142.1  | 142.1  | 139.8  | 139.8  |
| 65°   | 1702.7 | 1074.8 | 304.8  | 192.5  | 162.7  | 139.8  | 130.6  | 137.5  | 139.8  | 137.5  | 135.2  |
| 67.5° | 1361.2 | 827.3  | 252.1  | 174.2  | 151.2  | 128.3  | 121.5  | 128.3  | 130.6  | 128.3  | 128.3  |
| 70°   | 935.0  | 534.0  | 204.0  | 155.8  | 135.2  | 116.9  | 110.0  | 114.6  | 114.6  | 116.9  | 116.9  |
| 72.5° | 483.5  | 288.7  | 167.3  | 132.9  | 116.9  | 105.4  | 98.5   | 98.5   | 96.2   | 96.2   | 96.2   |
| 75°   | 240.6  | 197.1  | 139.8  | 112.3  | 98.5   | 89.4   | 84.8   | 80.2   | 80.2   | 80.2   | 80.2   |
| 77.5° | 167.3  | 151.2  | 114.6  | 89.4   | 80.2   | 73.3   | 73.3   | 66.5   | 66.5   | 66.5   | 66.5   |
| 80°   | 126.0  | 119.2  | 87.1   | 68.7   | 61.9   | 57.3   | 57.3   | 55.0   | 55.0   | 52.7   | 52.7   |
| 82.5° | 89.4   | 96.2   | 66.5   | 50.4   | 45.8   | 43.5   | 43.5   | 41.2   | 41.2   | 36.7   | 36.7   |
| 85°   | 71.0   | 80.2   | 50.4   | 36.7   | 34.4   | 29.8   | 29.8   | 27.5   | 27.5   | 25.2   | 22.9   |
| 87.5° | 20.6   | 43.5   | 20.6   | 13.7   | 13.7   | 13.7   | 13.7   | 11.5   | 11.5   | 9.2    | 9.2    |
| 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)