

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: P671259

Luminaire Tested: **CCP-SA-1C-750-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671259  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-750-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ SL2  
distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4577.1 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

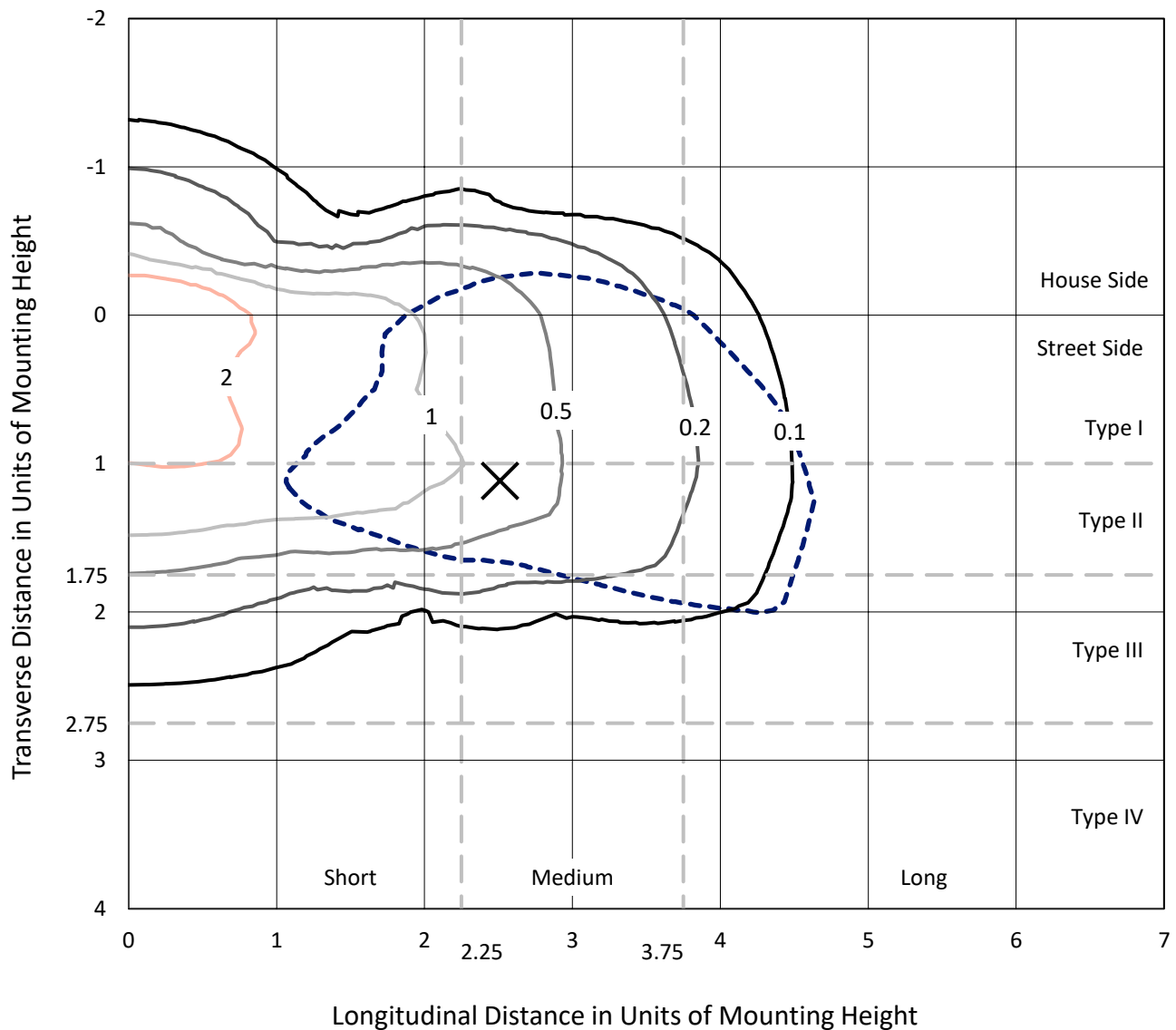
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

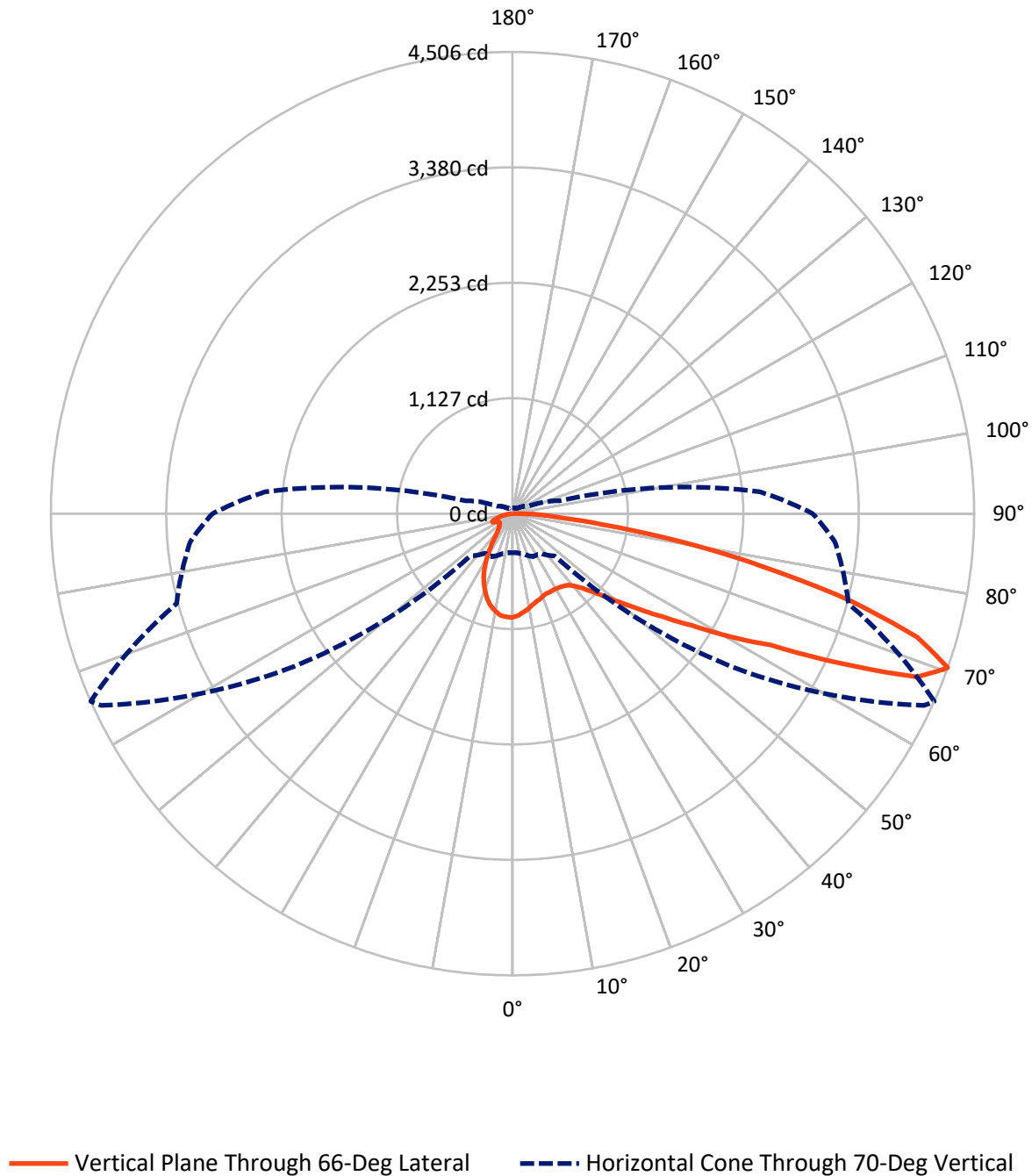
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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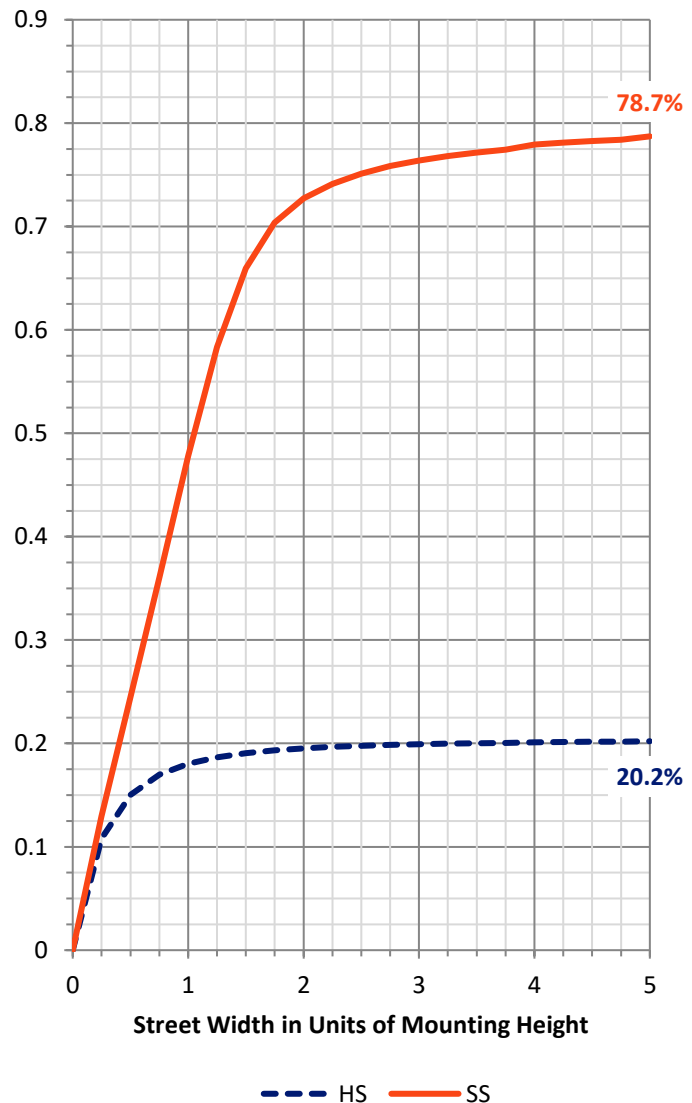
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 936.9    | 0.0    | 936.9  |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 3640.2   | 0.0    | 3640.2 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 4577.1   | 0.0    | 4577.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.4   | 2.0       |
| 10°-20°   | 220.1  | 4.8       |
| 20°-30°   | 302.3  | 6.6       |
| 30°-40°   | 405.3  | 8.9       |
| 40°-50°   | 588.1  | 12.8      |
| 50°-60°   | 893.9  | 19.5      |
| 60°-70°   | 1104.0 | 24.1      |
| 70°-80°   | 821.0  | 17.9      |
| 80°-90°   | 153.1  | 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°    | 4577.1 | 100.0     |
| 0°-180°   | 4577.1 | 100.0     |

**Coefficient of Utilization**



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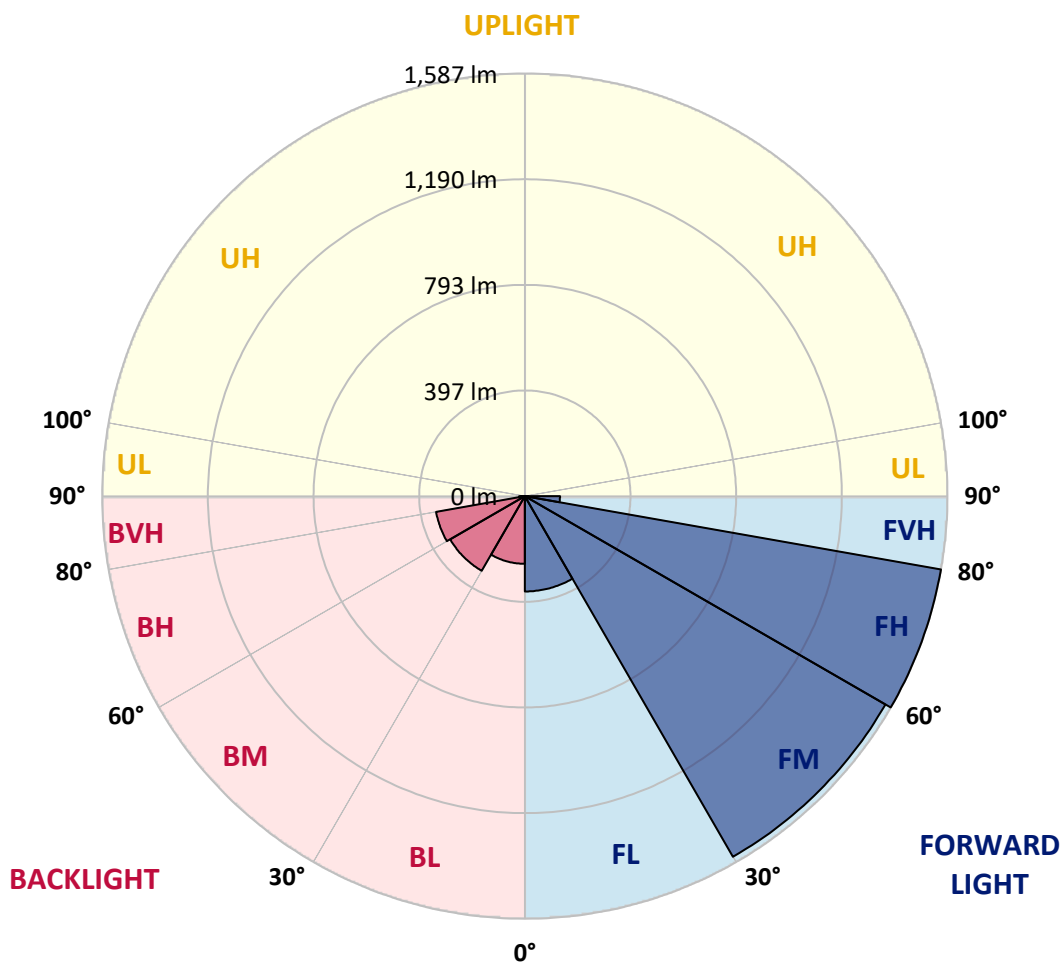
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 357.9  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1563.6 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1586.7 | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 132.0  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 253.9  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 323.6  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 338.2  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 21.1   | 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°    | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 |
| 2.5°  | 961.9  | 967.0  | 968.7  | 972.1  | 980.6  | 987.4  | 997.6  | 1002.7 | 997.6  | 1004.4 | 1004.4 |
| 5°    | 895.5  | 888.7  | 905.7  | 912.5  | 922.7  | 936.3  | 960.2  | 978.9  | 973.8  | 994.2  | 1011.2 |
| 7.5°  | 839.3  | 839.3  | 844.4  | 859.7  | 871.6  | 892.1  | 917.6  | 946.5  | 955.0  | 982.3  | 1007.8 |
| 10°   | 788.2  | 795.0  | 795.0  | 818.9  | 825.7  | 849.5  | 892.1  | 927.8  | 929.5  | 975.5  | 1011.2 |
| 12.5° | 761.0  | 757.6  | 774.6  | 781.4  | 801.8  | 825.7  | 859.7  | 904.0  | 905.7  | 955.0  | 1004.4 |
| 15°   | 738.8  | 742.2  | 750.8  | 767.8  | 786.5  | 805.2  | 837.6  | 878.4  | 887.0  | 944.8  | 1001.0 |
| 17.5° | 740.5  | 742.2  | 742.2  | 754.2  | 769.5  | 791.6  | 822.3  | 869.9  | 875.0  | 931.2  | 995.9  |
| 20°   | 750.8  | 743.9  | 749.1  | 754.2  | 764.4  | 784.8  | 810.3  | 851.2  | 856.3  | 929.5  | 1007.8 |
| 22.5° | 772.9  | 767.8  | 766.1  | 764.4  | 762.7  | 774.6  | 806.9  | 841.0  | 846.1  | 921.0  | 1012.9 |
| 25°   | 808.6  | 806.9  | 795.0  | 783.1  | 774.6  | 774.6  | 800.1  | 849.5  | 847.8  | 921.0  | 1016.3 |
| 27.5° | 851.2  | 851.2  | 849.5  | 827.4  | 801.8  | 788.2  | 805.2  | 846.1  | 844.4  | 921.0  | 1024.8 |
| 30°   | 909.1  | 909.1  | 904.0  | 883.5  | 837.6  | 798.4  | 808.6  | 842.7  | 847.8  | 914.2  | 1018.0 |
| 32.5° | 972.1  | 970.4  | 975.5  | 956.7  | 909.1  | 846.1  | 829.1  | 849.5  | 854.6  | 921.0  | 1019.7 |
| 35°   | 1018.0 | 1028.3 | 1045.3 | 1028.3 | 980.6  | 895.5  | 858.0  | 863.1  | 866.5  | 922.7  | 1026.5 |
| 37.5° | 1070.8 | 1082.7 | 1106.6 | 1120.2 | 1069.1 | 970.4  | 904.0  | 885.2  | 885.2  | 944.8  | 1028.3 |
| 40°   | 1147.4 | 1135.5 | 1176.4 | 1200.2 | 1179.8 | 1062.3 | 975.5  | 926.1  | 927.8  | 973.8  | 1050.4 |
| 42.5° | 1203.6 | 1215.5 | 1258.1 | 1300.6 | 1275.1 | 1174.7 | 1053.8 | 992.5  | 992.5  | 1016.3 | 1084.4 |
| 45°   | 1266.6 | 1280.2 | 1339.8 | 1390.9 | 1409.6 | 1309.1 | 1161.0 | 1087.8 | 1084.4 | 1099.8 | 1145.7 |
| 47.5° | 1336.4 | 1355.1 | 1423.2 | 1482.8 | 1532.2 | 1448.7 | 1298.9 | 1203.6 | 1201.9 | 1213.8 | 1247.9 |
| 50°   | 1416.4 | 1423.2 | 1479.4 | 1588.3 | 1687.1 | 1634.3 | 1467.5 | 1367.0 | 1358.5 | 1363.6 | 1409.6 |
| 52.5° | 1440.2 | 1435.1 | 1499.8 | 1617.3 | 1797.7 | 1860.7 | 1697.3 | 1552.6 | 1549.2 | 1537.3 | 1596.9 |
| 55°   | 1353.4 | 1370.4 | 1433.4 | 1583.2 | 1888.0 | 2128.0 | 1949.2 | 1806.2 | 1775.6 | 1743.3 | 1814.8 |
| 57.5° | 1179.8 | 1181.5 | 1253.0 | 1430.0 | 1818.2 | 2349.3 | 2376.6 | 2054.8 | 2056.5 | 1969.7 | 2051.4 |
| 60°   | 917.6  | 912.5  | 968.7  | 1128.7 | 1619.0 | 2417.4 | 2843.0 | 2451.5 | 2434.4 | 2196.1 | 2271.0 |
| 62.5° | 662.2  | 652.0  | 663.9  | 757.6  | 1210.4 | 2313.6 | 3301.0 | 2895.8 | 2824.3 | 2427.6 | 2485.5 |
| 65°   | 544.8  | 549.9  | 555.0  | 560.1  | 679.3  | 1908.4 | 3442.3 | 3621.0 | 3525.7 | 2698.3 | 2722.1 |
| 67.5° | 451.1  | 454.5  | 476.7  | 507.3  | 503.9  | 1127.0 | 3278.8 | 4291.8 | 4256.0 | 3033.7 | 2926.4 |
| 70°   | 383.0  | 381.3  | 406.9  | 463.1  | 471.6  | 585.6  | 2596.2 | 4429.6 | 4506.3 | 3394.6 | 3158.0 |
| 72.5° | 306.4  | 309.8  | 332.0  | 406.9  | 463.1  | 493.7  | 1494.7 | 4133.4 | 4131.7 | 3672.1 | 3033.7 |
| 75°   | 219.6  | 219.6  | 250.3  | 337.1  | 447.7  | 488.6  | 827.4  | 3355.4 | 3418.4 | 3450.8 | 2631.9 |
| 77.5° | 144.7  | 151.5  | 175.3  | 252.0  | 420.5  | 478.4  | 524.3  | 2439.5 | 2517.9 | 2580.8 | 2013.9 |
| 80°   | 98.7   | 102.1  | 117.5  | 175.3  | 355.8  | 481.8  | 429.0  | 1641.1 | 1671.8 | 1424.9 | 817.2  |
| 82.5° | 59.6   | 61.3   | 78.3   | 122.6  | 255.4  | 457.9  | 403.5  | 905.7  | 887.0  | 430.7  | 234.9  |
| 85°   | 32.3   | 34.0   | 49.4   | 81.7   | 168.5  | 400.1  | 396.7  | 444.3  | 413.7  | 158.3  | 98.7   |
| 87.5° | 11.9   | 11.9   | 22.1   | 40.9   | 97.0   | 274.1  | 345.6  | 263.9  | 246.8  | 80.0   | 46.0   |
| 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°    | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 | 1011.2 |
| 2.5°  | 1012.9 | 1012.9 | 1012.9 | 1012.9 | 1011.2 | 1004.4 | 1009.5 | 1007.8 | 997.6  | 999.3  | 992.5  |
| 5°    | 1009.5 | 1018.0 | 1012.9 | 1006.1 | 997.6  | 977.2  | 970.4  | 965.3  | 951.6  | 946.5  | 951.6  |
| 7.5°  | 1018.0 | 1011.2 | 1007.8 | 995.9  | 961.9  | 943.1  | 919.3  | 890.4  | 869.9  | 864.8  | 869.9  |
| 10°   | 1016.3 | 1016.3 | 1001.0 | 967.0  | 934.6  | 880.1  | 849.5  | 798.4  | 769.5  | 761.0  | 762.7  |
| 12.5° | 1009.5 | 1014.6 | 990.8  | 936.3  | 875.0  | 808.6  | 752.5  | 698.0  | 646.9  | 626.5  | 623.1  |
| 15°   | 1016.3 | 1011.2 | 968.7  | 898.9  | 813.7  | 721.8  | 640.1  | 560.1  | 512.4  | 481.8  | 475.0  |
| 17.5° | 1006.1 | 1001.0 | 939.7  | 847.8  | 733.7  | 616.3  | 514.1  | 427.3  | 379.6  | 367.7  | 367.7  |
| 20°   | 1018.0 | 985.7  | 905.7  | 786.5  | 650.3  | 500.5  | 384.7  | 320.1  | 308.1  | 308.1  | 311.5  |
| 22.5° | 1016.3 | 982.3  | 876.7  | 726.9  | 549.9  | 377.9  | 286.0  | 267.3  | 269.0  | 282.6  | 280.9  |
| 25°   | 1006.1 | 975.5  | 835.9  | 660.5  | 444.3  | 284.3  | 236.6  | 231.5  | 243.4  | 258.8  | 257.1  |
| 27.5° | 1004.4 | 956.7  | 798.4  | 582.2  | 338.8  | 224.7  | 206.0  | 206.0  | 217.9  | 231.5  | 229.8  |
| 30°   | 994.2  | 941.4  | 752.5  | 493.7  | 255.4  | 195.8  | 189.0  | 189.0  | 194.1  | 200.9  | 200.9  |
| 32.5° | 992.5  | 921.0  | 701.4  | 401.8  | 204.3  | 177.0  | 173.6  | 175.3  | 175.3  | 178.8  | 177.0  |
| 35°   | 978.9  | 893.8  | 648.6  | 311.5  | 177.0  | 166.8  | 163.4  | 161.7  | 161.7  | 160.0  | 160.0  |
| 37.5° | 973.8  | 876.7  | 594.1  | 241.7  | 165.1  | 158.3  | 154.9  | 149.8  | 148.1  | 148.1  | 146.4  |
| 40°   | 978.9  | 859.7  | 541.4  | 195.8  | 154.9  | 151.5  | 146.4  | 139.6  | 137.9  | 137.9  | 137.9  |
| 42.5° | 997.6  | 858.0  | 486.9  | 170.2  | 149.8  | 144.7  | 137.9  | 131.1  | 129.4  | 131.1  | 129.4  |
| 45°   | 1040.2 | 871.6  | 434.1  | 158.3  | 143.0  | 137.9  | 129.4  | 124.3  | 122.6  | 124.3  | 124.3  |
| 47.5° | 1110.0 | 909.1  | 386.4  | 151.5  | 137.9  | 131.1  | 122.6  | 117.5  | 117.5  | 117.5  | 117.5  |
| 50°   | 1225.7 | 980.6  | 340.5  | 146.4  | 134.5  | 126.0  | 117.5  | 110.7  | 109.0  | 109.0  | 110.7  |
| 52.5° | 1399.4 | 1103.2 | 303.0  | 143.0  | 129.4  | 119.2  | 110.7  | 105.5  | 102.1  | 100.4  | 102.1  |
| 55°   | 1608.8 | 1281.9 | 291.1  | 139.6  | 122.6  | 114.1  | 105.5  | 98.7   | 95.3   | 95.3   | 93.6   |
| 57.5° | 1833.5 | 1479.4 | 311.5  | 136.2  | 117.5  | 107.3  | 98.7   | 91.9   | 88.5   | 86.8   | 86.8   |
| 60°   | 2076.9 | 1712.6 | 386.4  | 134.5  | 112.4  | 100.4  | 91.9   | 86.8   | 81.7   | 80.0   | 80.0   |
| 62.5° | 2298.2 | 1923.7 | 520.9  | 132.8  | 109.0  | 93.6   | 85.1   | 78.3   | 74.9   | 73.2   | 73.2   |
| 65°   | 2550.2 | 2158.6 | 652.0  | 139.6  | 107.3  | 88.5   | 78.3   | 71.5   | 68.1   | 66.4   | 66.4   |
| 67.5° | 2769.8 | 2362.9 | 728.6  | 156.6  | 112.4  | 81.7   | 69.8   | 64.7   | 63.0   | 61.3   | 61.3   |
| 70°   | 2929.8 | 2425.9 | 488.6  | 171.9  | 120.9  | 76.6   | 63.0   | 59.6   | 56.2   | 56.2   | 56.2   |
| 72.5° | 2715.3 | 2165.5 | 289.4  | 161.7  | 114.1  | 71.5   | 56.2   | 52.8   | 51.1   | 51.1   | 49.4   |
| 75°   | 2322.1 | 1843.7 | 223.0  | 131.1  | 91.9   | 61.3   | 49.4   | 46.0   | 44.3   | 44.3   | 42.6   |
| 77.5° | 1714.3 | 1321.1 | 165.1  | 103.8  | 71.5   | 49.4   | 42.6   | 40.9   | 39.2   | 37.5   | 37.5   |
| 80°   | 670.7  | 578.8  | 112.4  | 76.6   | 52.8   | 39.2   | 35.8   | 34.0   | 32.3   | 30.6   | 30.6   |
| 82.5° | 207.7  | 175.3  | 64.7   | 51.1   | 37.5   | 30.6   | 28.9   | 27.2   | 25.5   | 23.8   | 23.8   |
| 85°   | 90.2   | 86.8   | 42.6   | 32.3   | 25.5   | 20.4   | 20.4   | 18.7   | 17.0   | 15.3   | 15.3   |
| 87.5° | 44.3   | 42.6   | 23.8   | 15.3   | 13.6   | 10.2   | 10.2   | 8.5    | 6.8    | 6.8    | 6.8    |
| 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)