

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: P671205

Luminaire Tested: **CCP-SA-1D-722-U-SL2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671205  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-722-U-SL2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SL2  
distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4065.6 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

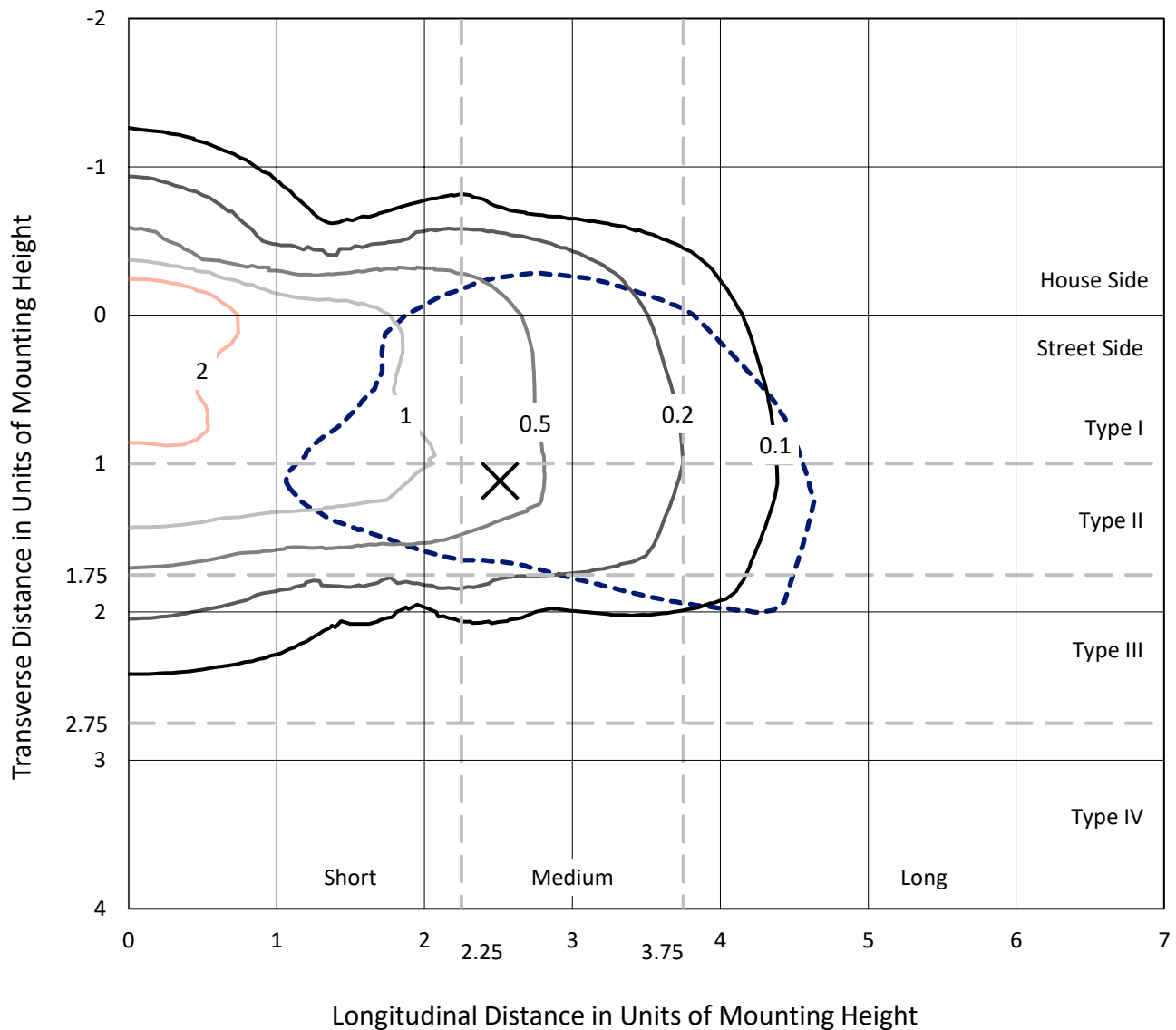
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

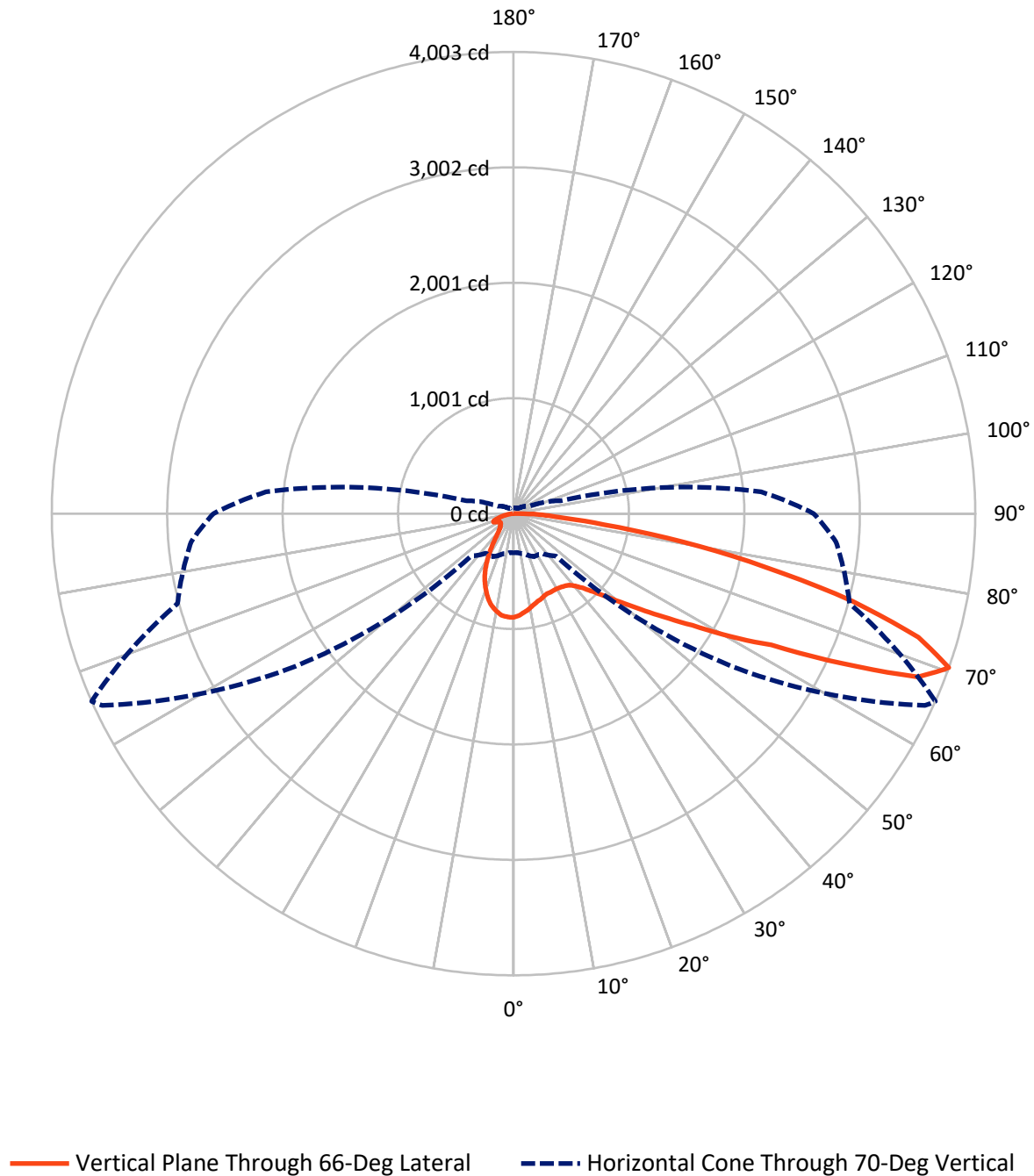
× Max cd  
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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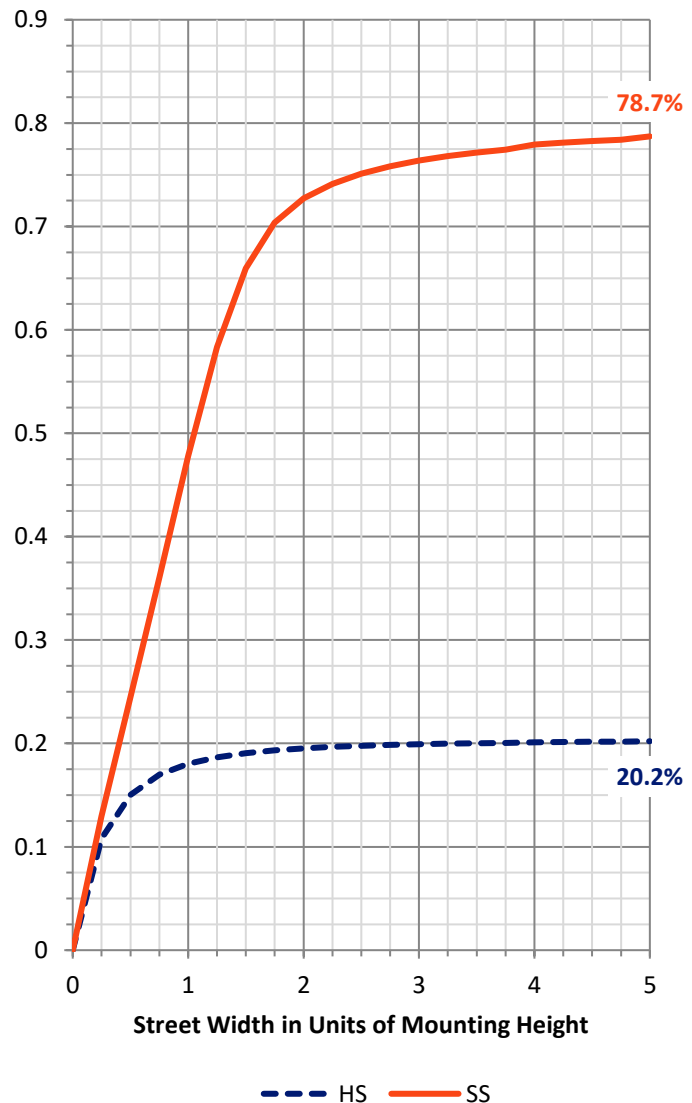
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 832.2    | 0.0    | 832.2  |
|                    | % Fixture | 20.5     | 0.0    | 20.5   |
| <b>Street Side</b> | Lumens    | 3233.4   | 0.0    | 3233.4 |
|                    | % Fixture | 79.5     | 0.0    | 79.5   |
| <b>Total</b>       | Lumens    | 4065.6   | 0.0    | 4065.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.4   | 2.0       |
| 10°-20°   | 195.5  | 4.8       |
| 20°-30°   | 268.5  | 6.6       |
| 30°-40°   | 360.0  | 8.9       |
| 40°-50°   | 522.3  | 12.8      |
| 50°-60°   | 794.0  | 19.5      |
| 60°-70°   | 980.6  | 24.1      |
| 70°-80°   | 729.2  | 17.9      |
| 80°-90°   | 136.0  | 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°    | 4065.6 | 100.0     |
| 0°-180°   | 4065.6 | 100.0     |

**Coefficient of Utilization**



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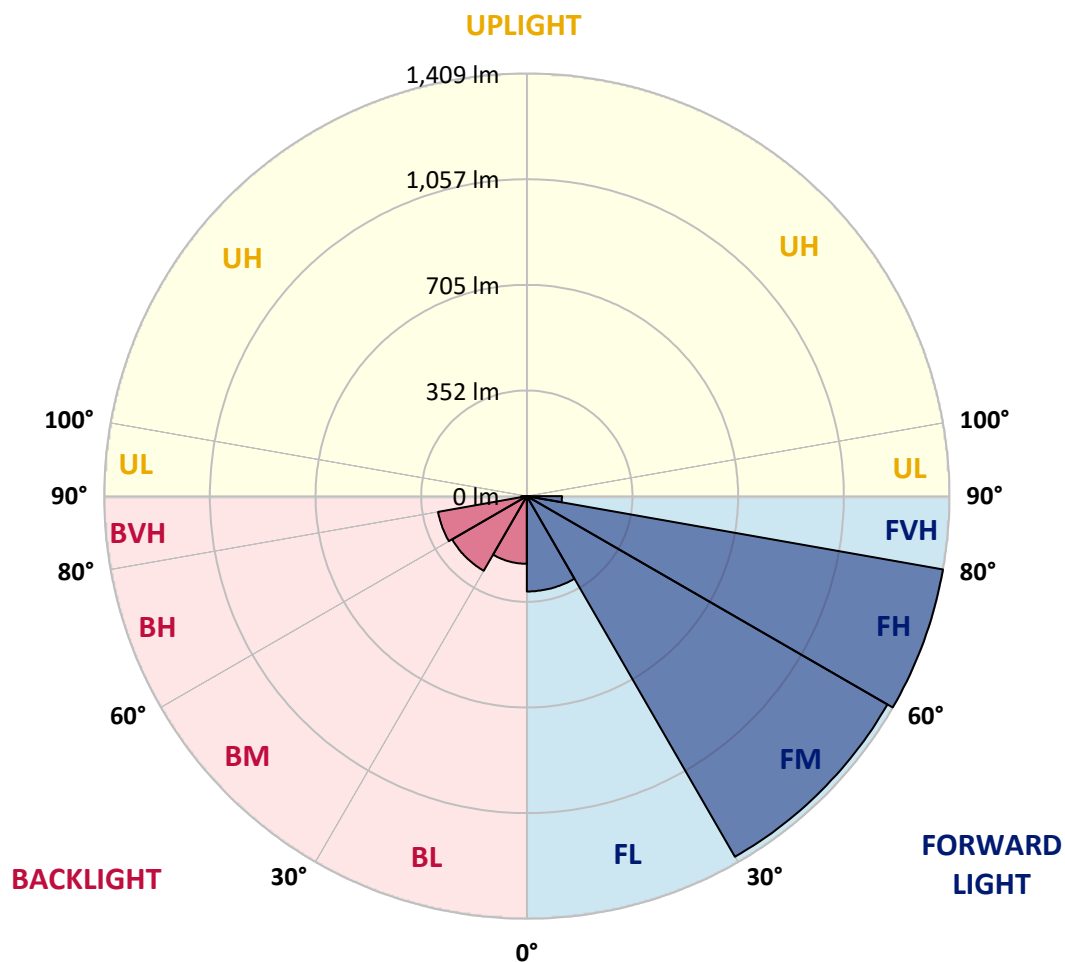
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 317.9  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 1388.9 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 1409.4 | 34.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 117.2  | 2.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 225.5  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 287.5  | 7.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 300.4  | 7.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.8   | 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°    | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  | 898.2  |
| 2.5°  | 854.4  | 858.9  | 860.4  | 863.4  | 871.0  | 877.0  | 886.1  | 890.7  | 886.1  | 892.2  | 892.2  |
| 5°    | 795.4  | 789.3  | 804.5  | 810.5  | 819.6  | 831.7  | 852.8  | 869.5  | 864.9  | 883.1  | 898.2  |
| 7.5°  | 745.5  | 745.5  | 750.0  | 763.6  | 774.2  | 792.4  | 815.0  | 840.8  | 848.3  | 872.5  | 895.2  |
| 10°   | 700.1  | 706.2  | 706.2  | 727.3  | 733.4  | 754.6  | 792.4  | 824.1  | 825.6  | 866.5  | 898.2  |
| 12.5° | 675.9  | 672.9  | 688.0  | 694.1  | 712.2  | 733.4  | 763.6  | 802.9  | 804.5  | 848.3  | 892.2  |
| 15°   | 656.3  | 659.3  | 666.9  | 682.0  | 698.6  | 715.2  | 744.0  | 780.3  | 787.8  | 839.2  | 889.1  |
| 17.5° | 657.8  | 659.3  | 659.3  | 669.9  | 683.5  | 703.1  | 730.4  | 772.7  | 777.2  | 827.1  | 884.6  |
| 20°   | 666.9  | 660.8  | 665.3  | 669.9  | 679.0  | 697.1  | 719.8  | 756.1  | 760.6  | 825.6  | 895.2  |
| 22.5° | 686.5  | 682.0  | 680.5  | 679.0  | 677.4  | 688.0  | 716.8  | 747.0  | 751.5  | 818.1  | 899.7  |
| 25°   | 718.3  | 716.8  | 706.2  | 695.6  | 688.0  | 688.0  | 710.7  | 754.6  | 753.0  | 818.1  | 902.7  |
| 27.5° | 756.1  | 756.1  | 754.6  | 734.9  | 712.2  | 700.1  | 715.2  | 751.5  | 750.0  | 818.1  | 910.3  |
| 30°   | 807.5  | 807.5  | 802.9  | 784.8  | 744.0  | 709.2  | 718.3  | 748.5  | 753.0  | 812.0  | 904.3  |
| 32.5° | 863.4  | 861.9  | 866.5  | 849.8  | 807.5  | 751.5  | 736.4  | 754.6  | 759.1  | 818.1  | 905.8  |
| 35°   | 904.3  | 913.3  | 928.5  | 913.3  | 871.0  | 795.4  | 762.1  | 766.7  | 769.7  | 819.6  | 911.8  |
| 37.5° | 951.1  | 961.7  | 982.9  | 995.0  | 949.6  | 861.9  | 802.9  | 786.3  | 786.3  | 839.2  | 913.3  |
| 40°   | 1019.2 | 1008.6 | 1044.9 | 1066.1 | 1047.9 | 943.6  | 866.5  | 822.6  | 824.1  | 864.9  | 933.0  |
| 42.5° | 1069.1 | 1079.7 | 1117.5 | 1155.3 | 1132.6 | 1043.4 | 936.0  | 881.6  | 881.6  | 902.7  | 963.2  |
| 45°   | 1125.0 | 1137.1 | 1190.1 | 1235.4 | 1252.1 | 1162.8 | 1031.3 | 966.3  | 963.2  | 976.8  | 1017.7 |
| 47.5° | 1187.0 | 1203.7 | 1264.2 | 1317.1 | 1360.9 | 1286.8 | 1153.8 | 1069.1 | 1067.6 | 1078.2 | 1108.4 |
| 50°   | 1258.1 | 1264.2 | 1314.1 | 1410.8 | 1498.5 | 1451.7 | 1303.5 | 1214.3 | 1206.7 | 1211.2 | 1252.1 |
| 52.5° | 1279.3 | 1274.7 | 1332.2 | 1436.5 | 1596.8 | 1652.8 | 1507.6 | 1379.1 | 1376.1 | 1365.5 | 1418.4 |
| 55°   | 1202.2 | 1217.3 | 1273.2 | 1406.3 | 1677.0 | 1890.2 | 1731.4 | 1604.4 | 1577.2 | 1548.4 | 1611.9 |
| 57.5° | 1047.9 | 1049.4 | 1112.9 | 1270.2 | 1615.0 | 2086.8 | 2111.0 | 1825.2 | 1826.7 | 1749.5 | 1822.1 |
| 60°   | 815.0  | 810.5  | 860.4  | 1002.6 | 1438.0 | 2147.2 | 2525.3 | 2177.5 | 2162.4 | 1950.7 | 2017.2 |
| 62.5° | 588.2  | 579.2  | 589.7  | 672.9  | 1075.1 | 2055.0 | 2932.0 | 2572.2 | 2508.6 | 2156.3 | 2207.7 |
| 65°   | 483.9  | 488.4  | 493.0  | 497.5  | 603.3  | 1695.1 | 3057.6 | 3216.3 | 3131.6 | 2396.7 | 2417.9 |
| 67.5° | 400.7  | 403.7  | 423.4  | 450.6  | 447.6  | 1001.0 | 2912.4 | 3812.1 | 3780.4 | 2694.6 | 2599.4 |
| 70°   | 340.2  | 338.7  | 361.4  | 411.3  | 418.9  | 520.2  | 2306.0 | 3934.6 | 4002.6 | 3015.2 | 2805.0 |
| 72.5° | 272.2  | 275.2  | 294.9  | 361.4  | 411.3  | 438.5  | 1327.7 | 3671.5 | 3670.0 | 3261.7 | 2694.6 |
| 75°   | 195.1  | 195.1  | 222.3  | 299.4  | 397.7  | 434.0  | 734.9  | 2980.4 | 3036.4 | 3065.1 | 2337.8 |
| 77.5° | 128.5  | 134.6  | 155.8  | 223.8  | 373.5  | 424.9  | 465.7  | 2166.9 | 2236.5 | 2292.4 | 1788.9 |
| 80°   | 87.7   | 90.7   | 104.3  | 155.8  | 316.0  | 427.9  | 381.1  | 1457.7 | 1484.9 | 1265.7 | 725.8  |
| 82.5° | 52.9   | 54.4   | 69.6   | 108.9  | 226.8  | 406.8  | 358.4  | 804.5  | 787.8  | 382.6  | 208.7  |
| 85°   | 28.7   | 30.2   | 43.9   | 72.6   | 149.7  | 355.4  | 352.3  | 394.7  | 367.5  | 140.6  | 87.7   |
| 87.5° | 10.6   | 10.6   | 19.7   | 36.3   | 86.2   | 243.5  | 307.0  | 234.4  | 219.3  | 71.1   | 40.8   |
| 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°    | 898.2  | 898.2  | 898.2 | 898.2 | 898.2 | 898.2 | 898.2 | 898.2 | 898.2 | 898.2 | 898.2 |
| 2.5°  | 899.7  | 899.7  | 899.7 | 899.7 | 898.2 | 892.2 | 896.7 | 895.2 | 886.1 | 887.6 | 881.6 |
| 5°    | 896.7  | 904.3  | 899.7 | 893.7 | 886.1 | 868.0 | 861.9 | 857.4 | 845.3 | 840.8 | 845.3 |
| 7.5°  | 904.3  | 898.2  | 895.2 | 884.6 | 854.4 | 837.7 | 816.6 | 790.9 | 772.7 | 768.2 | 772.7 |
| 10°   | 902.7  | 902.7  | 889.1 | 858.9 | 830.2 | 781.8 | 754.6 | 709.2 | 683.5 | 675.9 | 677.4 |
| 12.5° | 896.7  | 901.2  | 880.1 | 831.7 | 777.2 | 718.3 | 668.4 | 620.0 | 574.6 | 556.5 | 553.4 |
| 15°   | 902.7  | 898.2  | 860.4 | 798.4 | 722.8 | 641.1 | 568.6 | 497.5 | 455.2 | 427.9 | 421.9 |
| 17.5° | 893.7  | 889.1  | 834.7 | 753.0 | 651.7 | 547.4 | 456.7 | 379.5 | 337.2 | 326.6 | 326.6 |
| 20°   | 904.3  | 875.5  | 804.5 | 698.6 | 577.6 | 444.6 | 341.7 | 284.3 | 273.7 | 273.7 | 276.7 |
| 22.5° | 902.7  | 872.5  | 778.8 | 645.7 | 488.4 | 335.7 | 254.0 | 237.4 | 238.9 | 251.0 | 249.5 |
| 25°   | 893.7  | 866.5  | 742.5 | 586.7 | 394.7 | 252.5 | 210.2 | 205.7 | 216.2 | 229.8 | 228.3 |
| 27.5° | 892.2  | 849.8  | 709.2 | 517.2 | 300.9 | 199.6 | 183.0 | 183.0 | 193.6 | 205.7 | 204.1 |
| 30°   | 883.1  | 836.2  | 668.4 | 438.5 | 226.8 | 173.9 | 167.8 | 167.8 | 172.4 | 178.4 | 178.4 |
| 32.5° | 881.6  | 818.1  | 623.0 | 356.9 | 181.5 | 157.3 | 154.2 | 155.8 | 155.8 | 158.8 | 157.3 |
| 35°   | 869.5  | 793.9  | 576.1 | 276.7 | 157.3 | 148.2 | 145.2 | 143.7 | 143.7 | 142.1 | 142.1 |
| 37.5° | 864.9  | 778.8  | 527.7 | 214.7 | 146.7 | 140.6 | 137.6 | 133.1 | 131.6 | 131.6 | 130.0 |
| 40°   | 869.5  | 763.6  | 480.9 | 173.9 | 137.6 | 134.6 | 130.0 | 124.0 | 122.5 | 122.5 | 122.5 |
| 42.5° | 886.1  | 762.1  | 432.5 | 151.2 | 133.1 | 128.5 | 122.5 | 116.4 | 114.9 | 116.4 | 114.9 |
| 45°   | 923.9  | 774.2  | 385.6 | 140.6 | 127.0 | 122.5 | 114.9 | 110.4 | 108.9 | 110.4 | 110.4 |
| 47.5° | 985.9  | 807.5  | 343.3 | 134.6 | 122.5 | 116.4 | 108.9 | 104.3 | 104.3 | 104.3 | 104.3 |
| 50°   | 1088.7 | 871.0  | 302.4 | 130.0 | 119.5 | 111.9 | 104.3 | 98.3  | 96.8  | 96.8  | 98.3  |
| 52.5° | 1243.0 | 979.9  | 269.2 | 127.0 | 114.9 | 105.9 | 98.3  | 93.8  | 90.7  | 89.2  | 90.7  |
| 55°   | 1429.0 | 1138.6 | 258.6 | 124.0 | 108.9 | 101.3 | 93.8  | 87.7  | 84.7  | 84.7  | 83.2  |
| 57.5° | 1628.6 | 1314.1 | 276.7 | 121.0 | 104.3 | 95.3  | 87.7  | 81.7  | 78.6  | 77.1  | 77.1  |
| 60°   | 1844.8 | 1521.2 | 343.3 | 119.5 | 99.8  | 89.2  | 81.7  | 77.1  | 72.6  | 71.1  | 71.1  |
| 62.5° | 2041.4 | 1708.7 | 462.7 | 117.9 | 96.8  | 83.2  | 75.6  | 69.6  | 66.5  | 65.0  | 65.0  |
| 65°   | 2265.2 | 1917.4 | 579.2 | 124.0 | 95.3  | 78.6  | 69.6  | 63.5  | 60.5  | 59.0  | 59.0  |
| 67.5° | 2460.3 | 2098.9 | 647.2 | 139.1 | 99.8  | 72.6  | 62.0  | 57.5  | 55.9  | 54.4  | 54.4  |
| 70°   | 2602.4 | 2154.8 | 434.0 | 152.7 | 107.4 | 68.0  | 55.9  | 52.9  | 49.9  | 49.9  | 49.9  |
| 72.5° | 2411.9 | 1923.4 | 257.1 | 143.7 | 101.3 | 63.5  | 49.9  | 46.9  | 45.4  | 45.4  | 43.9  |
| 75°   | 2062.6 | 1637.7 | 198.1 | 116.4 | 81.7  | 54.4  | 43.9  | 40.8  | 39.3  | 39.3  | 37.8  |
| 77.5° | 1522.7 | 1173.4 | 146.7 | 92.2  | 63.5  | 43.9  | 37.8  | 36.3  | 34.8  | 33.3  | 33.3  |
| 80°   | 595.8  | 514.1  | 99.8  | 68.0  | 46.9  | 34.8  | 31.8  | 30.2  | 28.7  | 27.2  | 27.2  |
| 82.5° | 184.5  | 155.8  | 57.5  | 45.4  | 33.3  | 27.2  | 25.7  | 24.2  | 22.7  | 21.2  | 21.2  |
| 85°   | 80.1   | 77.1   | 37.8  | 28.7  | 22.7  | 18.1  | 18.1  | 16.6  | 15.1  | 13.6  | 13.6  |
| 87.5° | 39.3   | 37.8   | 21.2  | 13.6  | 12.1  | 9.1   | 9.1   | 7.6   | 6.0   | 6.0   | 6.0   |
| 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)