

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: P674544

Luminaire Tested: **CCP-SA-2C-730-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674544  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-730-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T2R distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

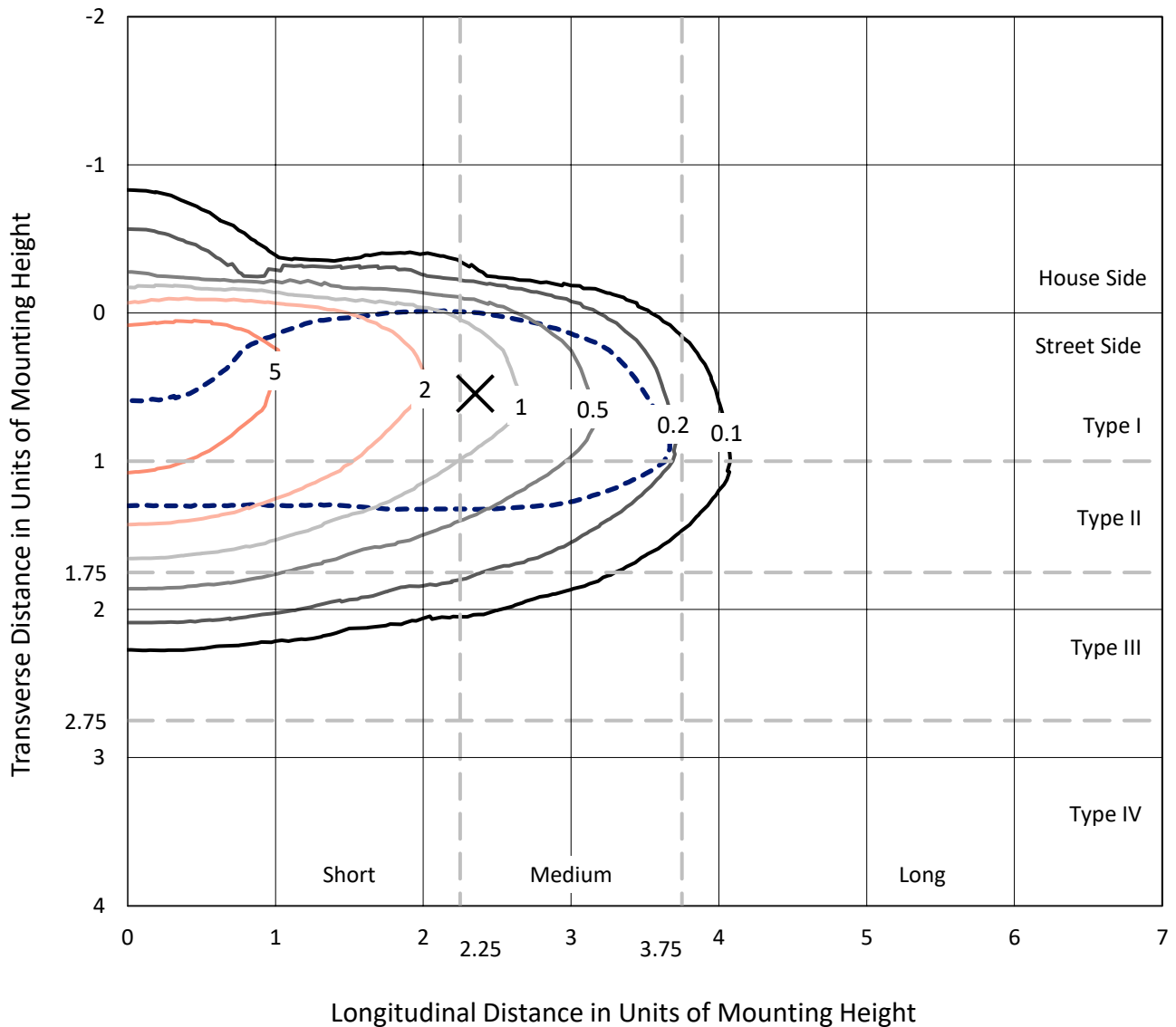
Lumens per Lamp: N/A  
Luminaire Lumens: 6666.4 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1  
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

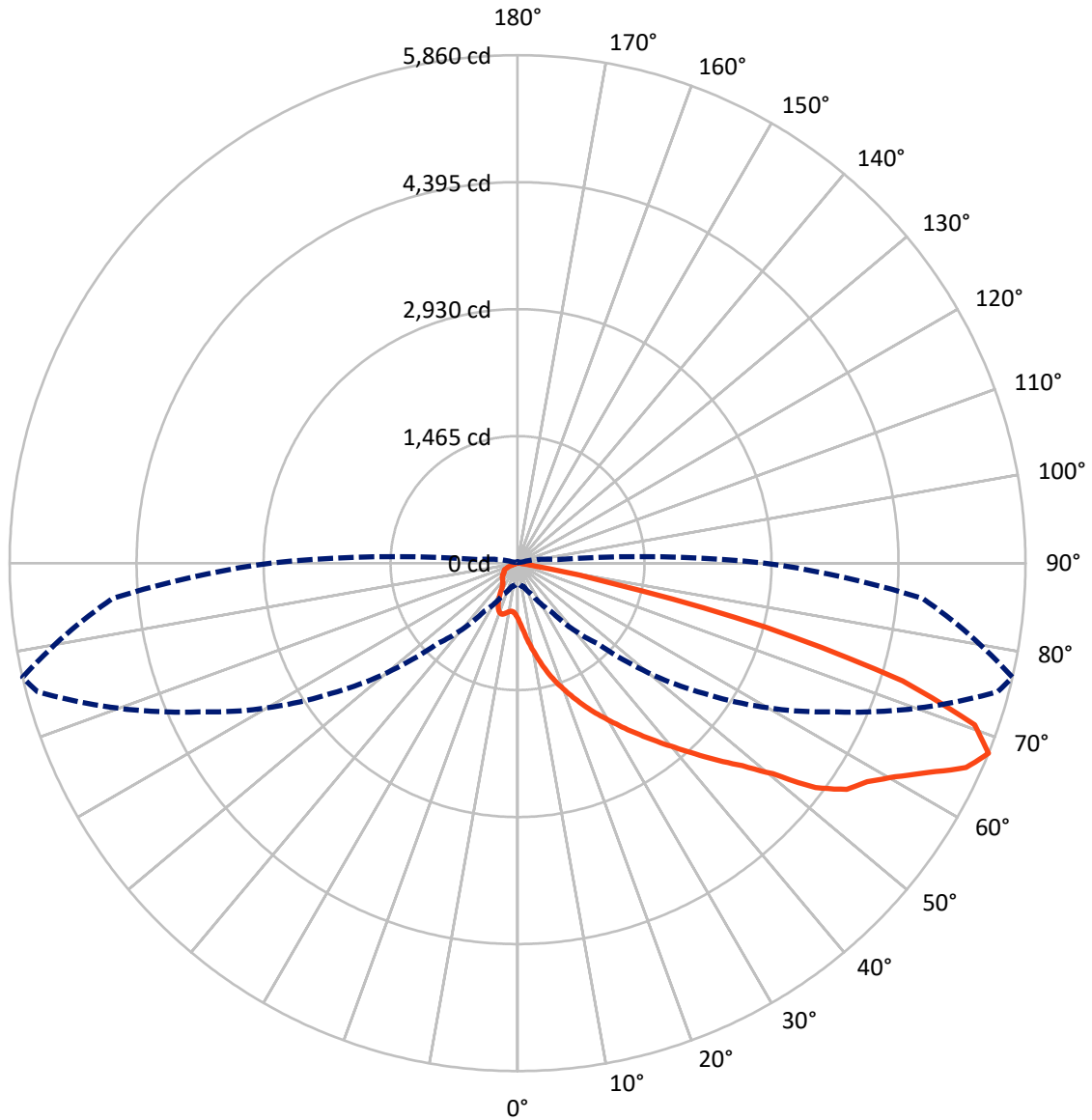
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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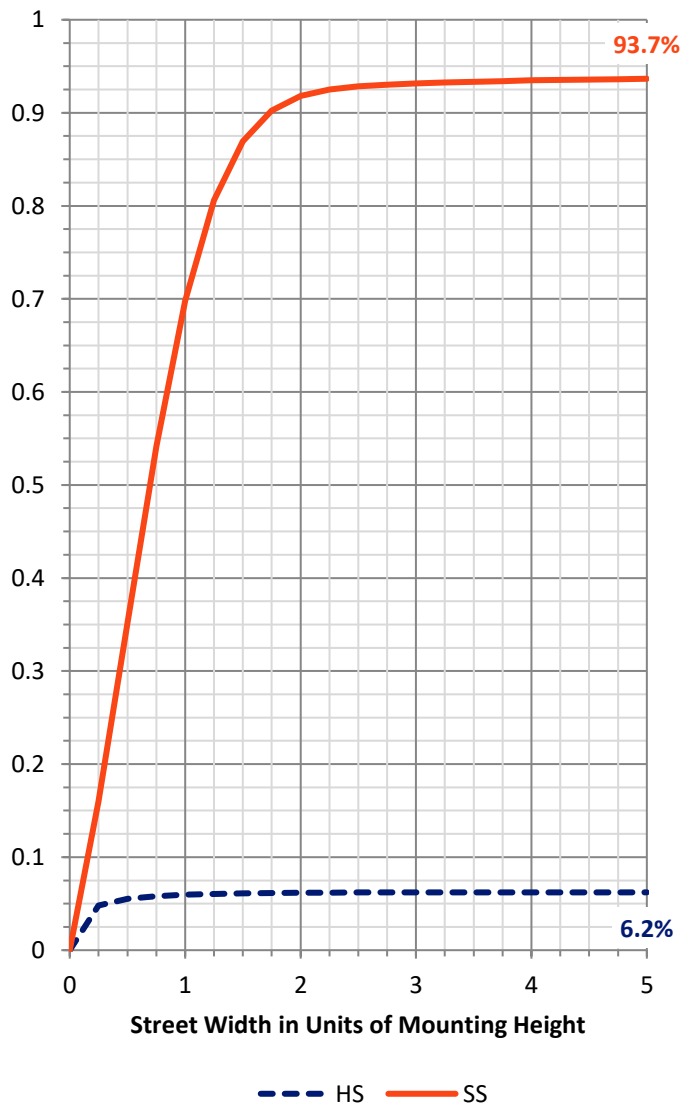
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 416.6    | 0.0    | 416.6  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 6249.9   | 0.0    | 6249.9 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 6666.4   | 0.0    | 6666.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.0   | 1.1       |
| 10°-20°   | 277.5  | 4.2       |
| 20°-30°   | 542.2  | 8.1       |
| 30°-40°   | 947.9  | 14.2      |
| 40°-50°   | 1382.4 | 20.7      |
| 50°-60°   | 1616.5 | 24.2      |
| 60°-70°   | 1310.4 | 19.7      |
| 70°-80°   | 492.3  | 7.4       |
| 80°-90°   | 22.4   | 0.3       |
| 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°    | 6666.4 | 100.0     |
| 0°-180°   | 6666.4 | 100.0     |



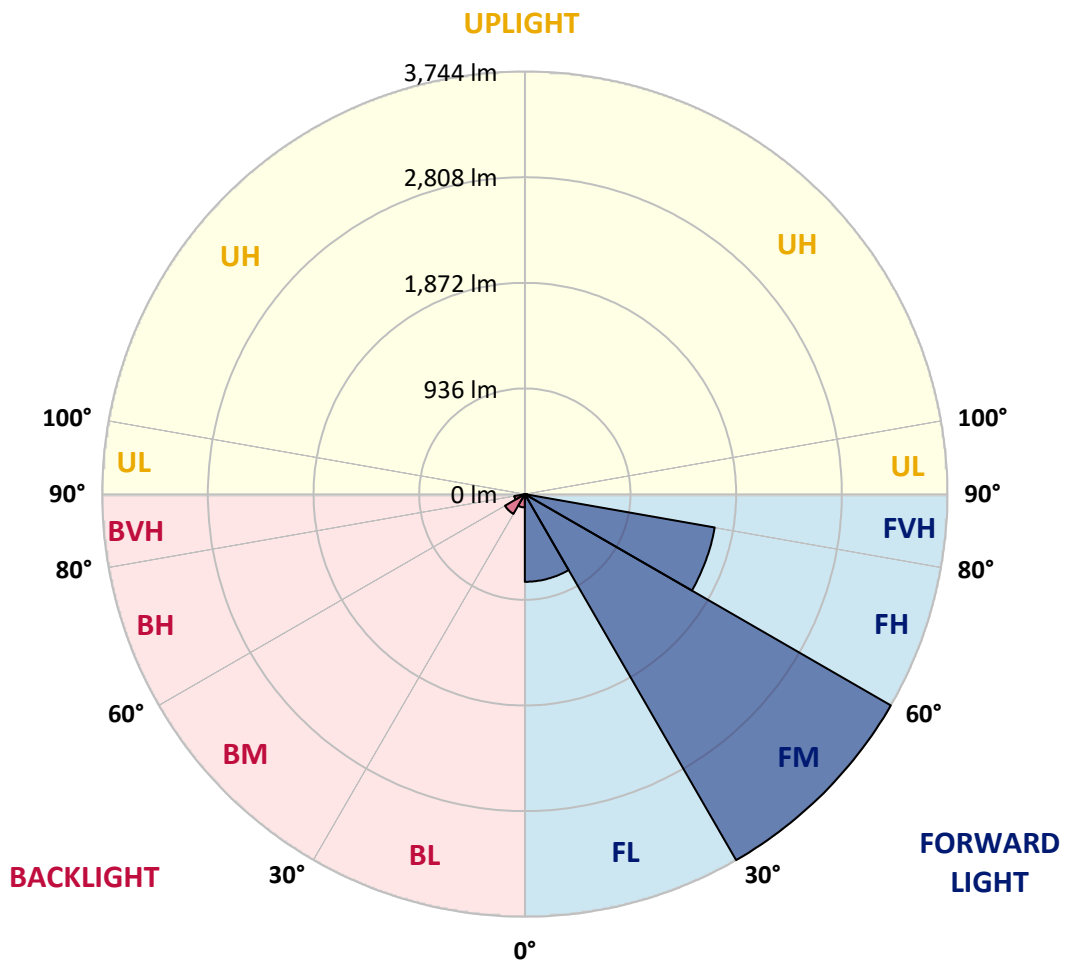
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 776.6  | 11.6      |                         |      |         |
| FM (30°-60°)   | 3744.0 | 56.2      |                         |      |         |
| FH (60°-80°)   | 1708.2 | 25.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 21.1   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 118.1  | 1.8       | B1/500                  |      |         |
| BM (30°-60°)   | 202.7  | 3.0       | B0/220                  |      |         |
| BH (60°-80°)   | 94.5   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  |
| 2.5°  | 958.7  | 923.8  | 930.4  | 916.0  | 897.3  | 854.0  | 808.2  | 762.5  | 721.6  | 712.5  | 671.6  |
| 5°    | 1227.7 | 1216.9 | 1205.4 | 1195.8 | 1156.7 | 1102.5 | 1020.1 | 915.4  | 820.9  | 804.6  | 719.8  |
| 7.5°  | 1436.5 | 1420.3 | 1430.5 | 1401.0 | 1360.1 | 1307.7 | 1203.0 | 1091.1 | 945.4  | 921.4  | 789.6  |
| 10°   | 1590.6 | 1581.6 | 1586.4 | 1572.5 | 1552.7 | 1500.3 | 1396.8 | 1256.6 | 1088.1 | 1042.3 | 867.8  |
| 12.5° | 1706.1 | 1707.9 | 1729.0 | 1730.2 | 1714.0 | 1671.2 | 1561.7 | 1415.5 | 1217.5 | 1176.5 | 954.5  |
| 15°   | 1790.4 | 1792.2 | 1818.1 | 1845.8 | 1864.4 | 1842.1 | 1742.8 | 1579.1 | 1369.7 | 1313.8 | 1045.3 |
| 17.5° | 1804.2 | 1805.4 | 1851.2 | 1907.1 | 1964.9 | 1984.2 | 1907.7 | 1741.6 | 1508.7 | 1444.9 | 1149.5 |
| 20°   | 1813.3 | 1823.5 | 1864.4 | 1928.8 | 2020.3 | 2079.9 | 2038.3 | 1897.5 | 1643.5 | 1569.5 | 1251.8 |
| 22.5° | 1922.8 | 1922.8 | 1946.9 | 1992.6 | 2065.4 | 2158.7 | 2150.3 | 2040.7 | 1774.7 | 1701.3 | 1353.5 |
| 25°   | 2155.1 | 2155.1 | 2131.6 | 2119.6 | 2158.7 | 2232.1 | 2253.2 | 2193.6 | 1924.6 | 1837.9 | 1460.6 |
| 27.5° | 2462.6 | 2462.6 | 2425.9 | 2337.4 | 2303.7 | 2334.4 | 2356.7 | 2326.6 | 2063.0 | 1977.5 | 1573.7 |
| 30°   | 2781.6 | 2792.4 | 2728.6 | 2616.1 | 2498.1 | 2474.6 | 2453.0 | 2446.4 | 2210.4 | 2114.2 | 1688.7 |
| 32.5° | 3101.7 | 3100.5 | 3021.1 | 2880.9 | 2726.8 | 2643.8 | 2573.3 | 2565.5 | 2366.9 | 2272.4 | 1797.6 |
| 35°   | 3357.5 | 3358.1 | 3274.4 | 3130.6 | 2952.5 | 2846.6 | 2733.4 | 2696.7 | 2538.4 | 2433.1 | 1927.6 |
| 37.5° | 3579.0 | 3566.3 | 3476.1 | 3339.4 | 3173.3 | 3063.8 | 2923.0 | 2827.3 | 2716.0 | 2608.8 | 2057.6 |
| 40°   | 3705.9 | 3689.1 | 3601.2 | 3471.2 | 3345.5 | 3261.8 | 3137.8 | 2985.0 | 2911.0 | 2795.4 | 2205.6 |
| 42.5° | 3724.6 | 3710.2 | 3651.8 | 3573.5 | 3470.6 | 3397.2 | 3364.1 | 3163.1 | 3115.6 | 3010.9 | 2382.6 |
| 45°   | 3672.2 | 3648.8 | 3629.5 | 3588.6 | 3559.7 | 3524.2 | 3569.3 | 3352.7 | 3350.3 | 3246.2 | 2557.7 |
| 47.5° | 3542.3 | 3510.4 | 3515.2 | 3560.3 | 3592.8 | 3624.7 | 3765.5 | 3601.2 | 3586.8 | 3489.3 | 2787.6 |
| 50°   | 3320.2 | 3304.5 | 3357.5 | 3446.6 | 3575.4 | 3702.9 | 3961.1 | 3855.2 | 3912.4 | 3820.9 | 3104.7 |
| 52.5° | 2868.8 | 2888.1 | 3046.4 | 3260.6 | 3483.3 | 3739.6 | 4144.7 | 4234.3 | 4380.6 | 4305.3 | 3423.7 |
| 55°   | 2327.2 | 2320.0 | 2531.2 | 2911.6 | 3267.2 | 3716.2 | 4224.7 | 4457.6 | 4687.5 | 4608.7 | 3601.2 |
| 57.5° | 1874.6 | 1887.3 | 2029.9 | 2406.0 | 2900.7 | 3535.0 | 4243.4 | 4574.4 | 4810.9 | 4758.5 | 3765.5 |
| 60°   | 1407.0 | 1419.1 | 1549.1 | 1876.4 | 2413.3 | 3157.1 | 4089.3 | 4615.3 | 5042.6 | 5002.8 | 4027.9 |
| 62.5° | 895.5  | 911.1  | 1041.7 | 1360.1 | 1844.5 | 2569.7 | 3743.3 | 4572.6 | 5284.5 | 5317.6 | 4386.0 |
| 65°   | 440.5  | 454.4  | 550.7  | 794.4  | 1233.1 | 1921.6 | 3260.6 | 4409.5 | 5592.6 | 5687.1 | 4673.1 |
| 67.5° | 243.7  | 250.4  | 283.5  | 404.4  | 687.9  | 1318.0 | 2620.3 | 4061.0 | 5734.0 | 5860.4 | 4692.3 |
| 70°   | 189.6  | 191.4  | 204.0  | 235.9  | 335.2  | 773.3  | 1863.8 | 3480.9 | 5441.0 | 5593.8 | 4301.7 |
| 72.5° | 159.5  | 161.9  | 167.9  | 178.7  | 209.4  | 402.6  | 1171.1 | 2690.1 | 4578.0 | 4647.2 | 3328.0 |
| 75°   | 116.8  | 120.4  | 137.2  | 146.8  | 165.5  | 244.3  | 516.4  | 1616.5 | 3025.3 | 2957.3 | 1862.0 |
| 77.5° | 98.1   | 101.1  | 105.3  | 119.2  | 136.6  | 166.7  | 181.1  | 677.6  | 1231.3 | 1070.6 | 488.7  |
| 80°   | 66.8   | 70.4   | 81.8   | 89.1   | 115.5  | 110.1  | 75.2   | 181.7  | 247.3  | 201.6  | 93.9   |
| 82.5° | 47.5   | 50.6   | 56.6   | 72.8   | 83.7   | 58.4   | 40.9   | 55.4   | 59.6   | 56.6   | 30.7   |
| 85°   | 15.0   | 19.3   | 40.9   | 60.2   | 45.1   | 19.9   | 25.9   | 21.1   | 18.7   | 18.1   | 12.0   |
| 87.5° | 3.0    | 3.0    | 20.5   | 24.1   | 18.1   | 10.2   | 9.0    | 6.6    | 8.4    | 8.4    | 6.6    |
| 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°    | 638.5  | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 | 638.5 |
| 2.5°  | 652.4  | 625.3 | 586.2 | 549.5 | 512.1 | 485.7 | 467.0 | 448.3 | 441.1 | 438.1 | 430.3 |
| 5°    | 681.2  | 629.5 | 551.9 | 489.3 | 443.5 | 414.6 | 397.2 | 382.1 | 372.5 | 369.5 | 365.3 |
| 7.5°  | 722.8  | 648.1 | 536.8 | 464.6 | 418.9 | 387.6 | 359.3 | 326.8 | 300.9 | 290.7 | 286.5 |
| 10°   | 767.9  | 676.4 | 539.2 | 459.8 | 399.0 | 330.4 | 267.2 | 214.8 | 192.0 | 183.6 | 177.5 |
| 12.5° | 834.1  | 707.7 | 549.5 | 454.4 | 339.4 | 235.9 | 170.9 | 149.2 | 143.8 | 142.6 | 141.4 |
| 15°   | 900.3  | 751.7 | 566.3 | 418.3 | 253.4 | 160.7 | 142.0 | 134.2 | 131.2 | 128.2 | 128.2 |
| 17.5° | 967.1  | 793.8 | 572.9 | 347.8 | 175.1 | 139.0 | 129.4 | 122.8 | 118.0 | 115.5 | 113.7 |
| 20°   | 1042.3 | 838.3 | 553.7 | 261.8 | 140.2 | 127.0 | 116.1 | 108.3 | 104.1 | 101.7 | 99.9  |
| 22.5° | 1123.6 | 882.3 | 511.5 | 182.3 | 127.6 | 114.3 | 104.1 | 96.3  | 92.1  | 89.7  | 89.1  |
| 25°   | 1200.0 | 920.2 | 444.1 | 137.2 | 114.9 | 102.3 | 92.7  | 86.1  | 83.0  | 80.6  | 80.0  |
| 27.5° | 1278.8 | 952.7 | 356.3 | 121.0 | 104.7 | 92.7  | 83.0  | 77.6  | 74.6  | 72.8  | 72.2  |
| 30°   | 1355.9 | 974.9 | 265.4 | 110.7 | 95.7  | 83.7  | 75.2  | 71.0  | 68.0  | 66.2  | 65.6  |
| 32.5° | 1435.3 | 987.6 | 179.3 | 101.7 | 86.7  | 75.8  | 68.6  | 64.4  | 62.6  | 60.8  | 60.8  |
| 35°   | 1511.7 | 985.8 | 129.4 | 93.3  | 79.4  | 68.6  | 62.0  | 59.0  | 58.4  | 56.6  | 56.6  |
| 37.5° | 1595.4 | 973.1 | 110.1 | 85.5  | 71.6  | 62.0  | 56.6  | 54.8  | 54.2  | 53.0  | 52.4  |
| 40°   | 1690.5 | 944.8 | 100.5 | 79.4  | 65.0  | 56.6  | 51.8  | 50.6  | 50.0  | 48.7  | 48.7  |
| 42.5° | 1794.6 | 908.1 | 95.1  | 72.8  | 59.6  | 51.2  | 47.5  | 45.7  | 45.1  | 43.9  | 43.9  |
| 45°   | 1915.6 | 873.2 | 91.5  | 66.2  | 54.8  | 46.9  | 43.3  | 41.5  | 40.9  | 39.7  | 39.7  |
| 47.5° | 2080.5 | 853.4 | 85.5  | 60.2  | 49.3  | 42.7  | 39.1  | 37.9  | 36.7  | 35.5  | 35.5  |
| 50°   | 2307.3 | 829.9 | 77.6  | 54.2  | 45.1  | 38.5  | 36.1  | 34.3  | 33.7  | 32.5  | 32.5  |
| 52.5° | 2493.9 | 779.9 | 69.8  | 48.1  | 40.3  | 35.5  | 33.1  | 31.9  | 30.7  | 30.1  | 30.1  |
| 55°   | 2559.5 | 721.6 | 62.0  | 43.3  | 36.7  | 33.1  | 30.7  | 29.5  | 28.9  | 28.3  | 28.3  |
| 57.5° | 2664.2 | 702.9 | 54.8  | 38.5  | 33.1  | 30.7  | 28.3  | 27.7  | 27.1  | 26.5  | 25.9  |
| 60°   | 2843.0 | 713.7 | 48.1  | 34.3  | 30.1  | 27.7  | 25.9  | 25.3  | 24.1  | 22.9  | 22.9  |
| 62.5° | 3016.3 | 700.5 | 40.9  | 30.1  | 25.9  | 24.7  | 22.9  | 21.7  | 19.3  | 17.5  | 16.2  |
| 65°   | 3058.4 | 612.0 | 35.5  | 25.3  | 21.7  | 20.5  | 18.7  | 16.2  | 12.6  | 10.2  | 10.2  |
| 67.5° | 2854.4 | 465.2 | 30.7  | 21.7  | 18.1  | 16.9  | 13.2  | 10.8  | 7.8   | 6.0   | 6.0   |
| 70°   | 2355.5 | 294.9 | 25.3  | 16.9  | 15.0  | 11.4  | 8.4   | 7.8   | 5.4   | 4.8   | 4.2   |
| 72.5° | 1699.5 | 161.3 | 21.1  | 13.8  | 10.8  | 7.2   | 6.0   | 4.8   | 3.6   | 2.4   | 2.4   |
| 75°   | 860.6  | 75.8  | 15.6  | 10.8  | 7.2   | 4.8   | 3.6   | 2.4   | 2.4   | 1.8   | 1.8   |
| 77.5° | 243.7  | 34.9  | 10.2  | 7.2   | 4.8   | 3.0   | 2.4   | 1.8   | 1.8   | 1.2   | 1.2   |
| 80°   | 48.1   | 17.5  | 6.6   | 4.8   | 3.6   | 2.4   | 1.8   | 1.2   | 1.2   | 0.6   | 0.6   |
| 82.5° | 17.5   | 9.0   | 4.8   | 3.6   | 3.0   | 2.4   | 1.2   | 0.6   | 0.6   | 0.0   | 0.0   |
| 85°   | 9.0    | 4.8   | 3.6   | 3.0   | 2.4   | 1.8   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   |
| 87.5° | 4.8    | 3.6   | 3.0   | 3.0   | 2.4   | 1.8   | 1.2   | 0.6   | 0.0   | 0.0   | 0.0   |
| 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)