

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: P671932

Luminaire Tested: **CCP-SA-2E-722-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671932  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-722-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

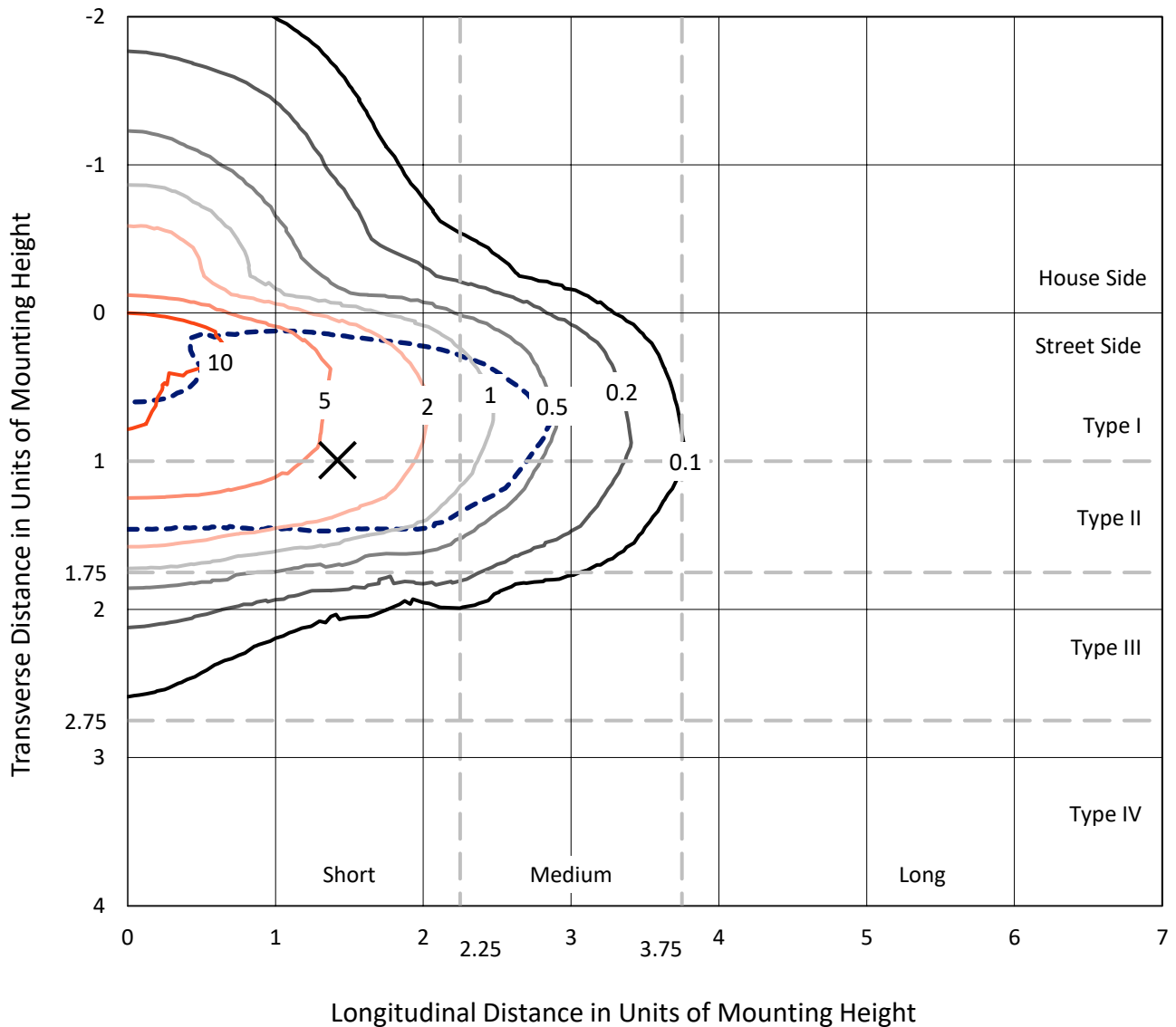
Lumens per Lamp: N/A  
Luminaire Lumens: 10163.8 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
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

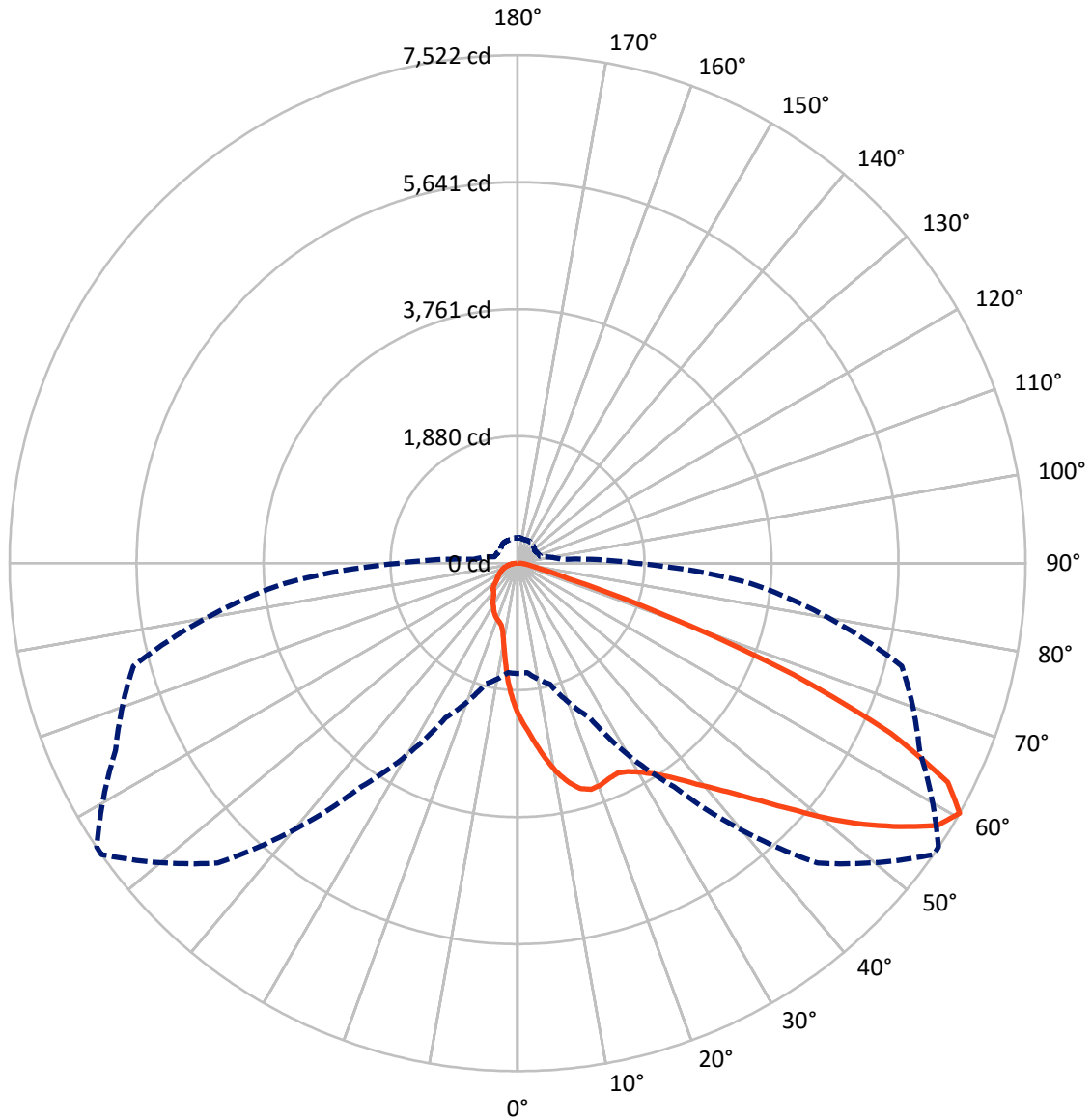
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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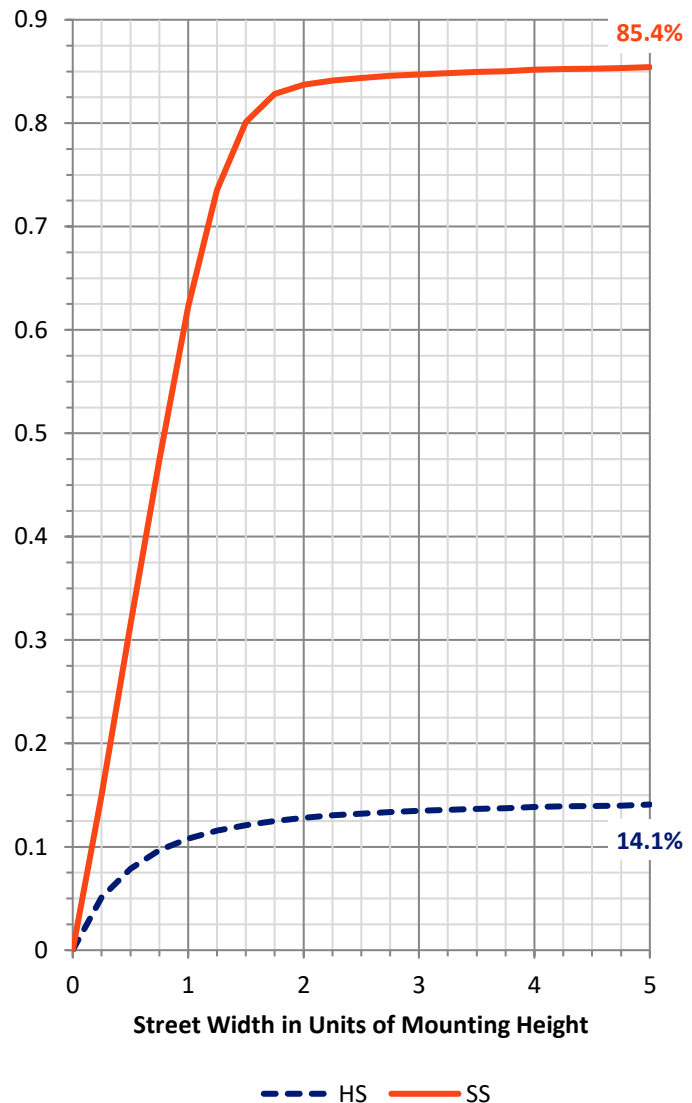
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1461.1   | 0.0    | 1461.1  |
|                    | % Fixture | 14.4     | 0.0    | 14.4    |
| <b>Street Side</b> | Lumens    | 8702.7   | 0.0    | 8702.7  |
|                    | % Fixture | 85.6     | 0.0    | 85.6    |
| <b>Total</b>       | Lumens    | 10163.8  | 0.0    | 10163.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 210.9   | 2.1       |
| 10°-20°   | 597.6   | 5.9       |
| 20°-30°   | 973.1   | 9.6       |
| 30°-40°   | 1454.4  | 14.3      |
| 40°-50°   | 2137.6  | 21.0      |
| 50°-60°   | 2505.3  | 24.6      |
| 60°-70°   | 1651.9  | 16.3      |
| 70°-80°   | 526.0   | 5.2       |
| 80°-90°   | 107.0   | 1.1       |
| 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°    | 10163.8 | 100.0     |
| 0°-180°   | 10163.8 | 100.0     |



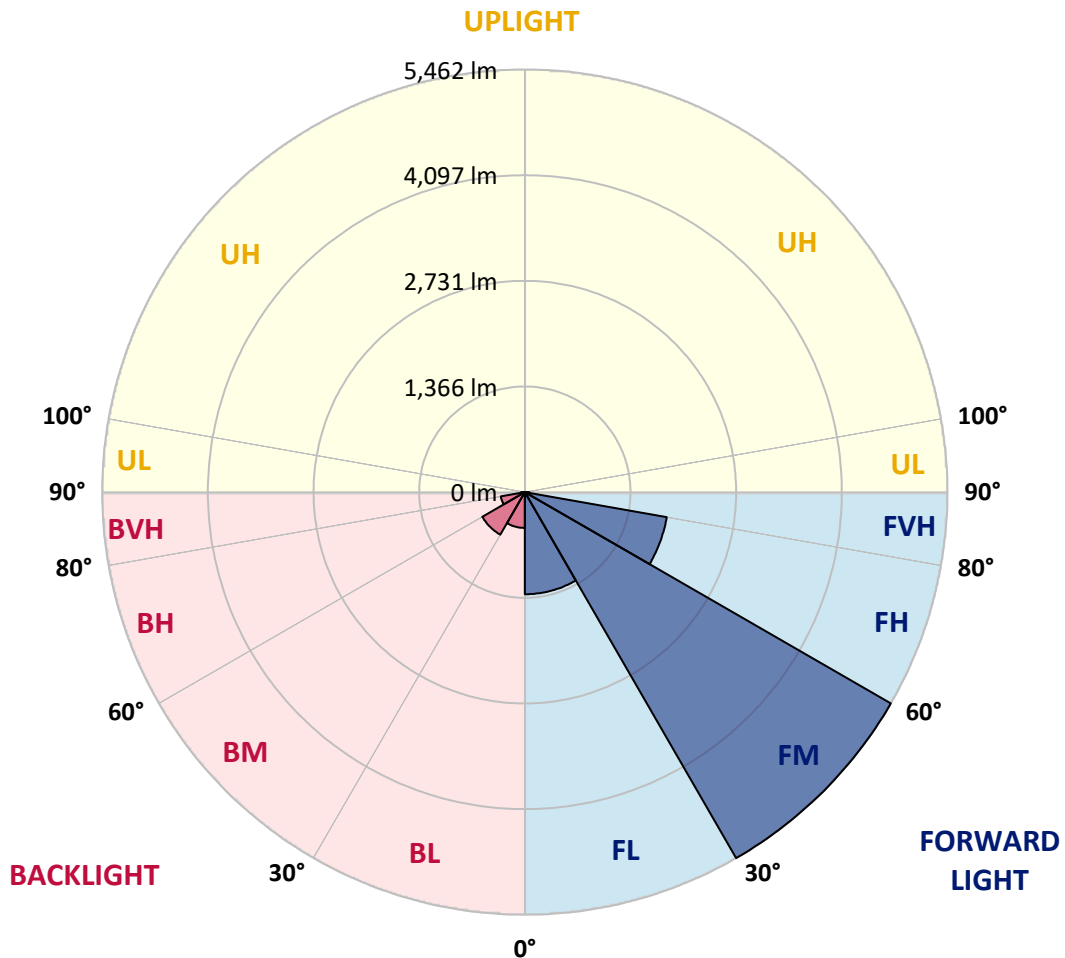
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1319.2 | 13.0      |                         |      |         |
| FM (30°-60°)   | 5462.2 | 53.7      |                         |      |         |
| FH (60°-80°)   | 1862.6 | 18.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 58.7   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 462.5  | 4.6       | B1/500                  |      |         |
| BM (30°-60°)   | 635.0  | 6.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 315.3  | 3.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 48.3   | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 |
| 2.5°  | 2623.1 | 2613.6 | 2613.6 | 2589.3 | 2553.2 | 2503.1 | 2443.4 | 2428.7 | 2405.8 | 2347.6 | 2272.5 |
| 5°    | 3023.1 | 3012.8 | 2998.8 | 2956.1 | 2889.1 | 2788.9 | 2662.9 | 2640.1 | 2558.3 | 2438.2 | 2302.7 |
| 7.5°  | 3287.6 | 3281.7 | 3277.3 | 3240.4 | 3174.1 | 3075.4 | 2906.7 | 2881.0 | 2742.5 | 2543.6 | 2331.4 |
| 10°   | 3260.3 | 3278.0 | 3308.9 | 3334.7 | 3348.0 | 3297.2 | 3138.8 | 3108.6 | 2936.9 | 2665.9 | 2374.2 |
| 12.5° | 3004.7 | 3029.8 | 3087.2 | 3192.6 | 3314.1 | 3412.1 | 3322.2 | 3305.3 | 3144.7 | 2795.5 | 2427.9 |
| 15°   | 2814.7 | 2825.0 | 2853.0 | 2931.1 | 3112.3 | 3373.8 | 3464.4 | 3448.9 | 3338.4 | 2962.0 | 2489.8 |
| 17.5° | 2755.7 | 2760.2 | 2766.8 | 2792.6 | 2916.3 | 3224.2 | 3522.6 | 3537.3 | 3526.3 | 3135.1 | 2559.8 |
| 20°   | 2785.2 | 2788.1 | 2788.9 | 2793.3 | 2852.2 | 3099.0 | 3507.1 | 3532.1 | 3691.3 | 3308.2 | 2629.0 |
| 22.5° | 2898.6 | 2895.0 | 2889.8 | 2872.9 | 2906.0 | 3076.9 | 3465.8 | 3505.6 | 3818.7 | 3465.8 | 2693.1 |
| 25°   | 3096.8 | 3091.6 | 3055.5 | 3020.2 | 3034.2 | 3156.5 | 3443.7 | 3486.5 | 3918.1 | 3614.6 | 2740.3 |
| 27.5° | 3332.5 | 3327.4 | 3290.5 | 3223.5 | 3208.8 | 3289.1 | 3495.3 | 3521.8 | 3991.1 | 3746.5 | 2760.9 |
| 30°   | 3577.1 | 3577.1 | 3531.4 | 3454.1 | 3406.9 | 3440.8 | 3590.3 | 3611.7 | 4046.3 | 3873.9 | 2774.2 |
| 32.5° | 3843.7 | 3851.1 | 3780.4 | 3692.0 | 3639.7 | 3619.8 | 3723.7 | 3742.1 | 4126.6 | 4024.2 | 2802.1 |
| 35°   | 4186.3 | 4170.1 | 4083.9 | 3967.5 | 3883.5 | 3838.6 | 3888.7 | 3910.0 | 4244.5 | 4211.3 | 2847.1 |
| 37.5° | 4571.5 | 4542.8 | 4436.7 | 4297.5 | 4150.9 | 4075.8 | 4108.9 | 4114.1 | 4419.0 | 4455.1 | 2928.8 |
| 40°   | 4889.8 | 4884.6 | 4794.7 | 4662.9 | 4478.0 | 4377.1 | 4360.9 | 4363.8 | 4661.4 | 4743.9 | 3052.6 |
| 42.5° | 5157.9 | 5138.7 | 5122.5 | 5076.1 | 4880.2 | 4714.4 | 4648.1 | 4648.9 | 4924.4 | 5042.2 | 3177.1 |
| 45°   | 5276.5 | 5272.8 | 5320.7 | 5440.0 | 5299.3 | 5104.1 | 5009.8 | 5023.1 | 5225.7 | 5348.7 | 3297.2 |
| 47.5° | 5225.7 | 5228.6 | 5356.8 | 5669.8 | 5753.1 | 5603.6 | 5436.3 | 5428.2 | 5517.4 | 5583.7 | 3403.2 |
| 50°   | 4771.9 | 4819.8 | 5166.7 | 5691.2 | 6050.7 | 6125.1 | 5936.5 | 5906.3 | 5773.0 | 5770.8 | 3468.1 |
| 52.5° | 4429.4 | 4427.2 | 4640.0 | 5473.9 | 6156.0 | 6595.8 | 6426.4 | 6358.6 | 5984.4 | 5876.1 | 3473.2 |
| 55°   | 3966.8 | 3963.8 | 4122.2 | 4838.2 | 5946.8 | 6924.3 | 6888.2 | 6803.5 | 6178.1 | 5910.7 | 3437.9 |
| 57.5° | 3004.0 | 3060.0 | 3217.6 | 3873.2 | 5283.9 | 6872.0 | 7329.5 | 7258.8 | 6367.4 | 5895.3 | 3431.2 |
| 60°   | 1634.6 | 1628.0 | 1856.3 | 2524.4 | 4045.6 | 6278.3 | 7521.7 | 7518.1 | 6568.5 | 5889.4 | 3471.7 |
| 62.5° | 753.6  | 746.2  | 791.9  | 1124.1 | 2319.7 | 5029.7 | 7150.5 | 7203.5 | 6754.9 | 5835.6 | 3468.1 |
| 65°   | 563.5  | 544.4  | 482.5  | 523.0  | 887.6  | 3002.5 | 6073.5 | 6215.0 | 6467.6 | 5614.6 | 3307.5 |
| 67.5° | 502.4  | 484.0  | 411.8  | 386.0  | 445.7  | 1059.3 | 4405.8 | 4536.2 | 5408.3 | 5200.6 | 3047.4 |
| 70°   | 460.4  | 444.2  | 372.0  | 331.5  | 334.4  | 469.2  | 2306.4 | 2562.7 | 3963.8 | 4340.2 | 2597.4 |
| 72.5° | 419.9  | 405.9  | 340.3  | 291.7  | 281.4  | 310.1  | 786.0  | 948.0  | 2465.5 | 3163.1 | 1936.6 |
| 75°   | 377.2  | 363.9  | 306.4  | 261.5  | 241.6  | 229.8  | 374.2  | 402.9  | 1303.8 | 1746.6 | 1039.4 |
| 77.5° | 327.8  | 320.4  | 273.3  | 230.6  | 213.6  | 173.8  | 249.0  | 261.5  | 558.4  | 685.8  | 495.0  |
| 80°   | 285.1  | 279.2  | 243.8  | 209.2  | 191.5  | 134.1  | 171.6  | 180.5  | 275.5  | 342.5  | 277.0  |
| 82.5° | 185.6  | 200.4  | 201.8  | 179.7  | 168.7  | 107.5  | 113.4  | 120.1  | 182.7  | 201.8  | 120.8  |
| 85°   | 76.6   | 92.8   | 139.2  | 123.8  | 117.1  | 91.3   | 75.1   | 76.6   | 112.0  | 117.9  | 43.5   |
| 87.5° | 34.6   | 38.3   | 68.5   | 69.2   | 60.4   | 34.6   | 37.6   | 41.3   | 57.5   | 56.7   | 19.2   |
| 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°    | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 | 2254.1 |
| 2.5°  | 2251.9 | 2218.0 | 2157.6 | 2080.2 | 2025.0 | 1984.5 | 1940.3 | 1907.9 | 1871.8 | 1840.1 | 1845.3 |
| 5°    | 2246.7 | 2181.2 | 2045.6 | 1902.0 | 1762.0 | 1647.1 | 1551.3 | 1480.6 | 1407.7 | 1379.0 | 1375.3 |
| 7.5°  | 2251.1 | 2139.9 | 1917.4 | 1682.5 | 1469.6 | 1323.0 | 1211.8 | 1144.7 | 1102.7 | 1078.4 | 1079.9 |
| 10°   | 2249.7 | 2100.9 | 1779.0 | 1454.8 | 1222.1 | 1088.0 | 1020.2 | 998.1  | 994.5  | 997.4  | 1001.8 |
| 12.5° | 2251.9 | 2047.8 | 1623.5 | 1250.1 | 1044.5 | 976.0  | 979.0  | 998.9  | 1011.4 | 1019.5 | 1024.7 |
| 15°   | 2261.5 | 2004.4 | 1464.4 | 1088.7 | 951.7  | 953.9  | 985.6  | 1016.6 | 1035.0 | 1043.8 | 1048.2 |
| 17.5° | 2275.5 | 1949.9 | 1323.0 | 966.5  | 912.7  | 946.6  | 987.8  | 1021.0 | 1035.0 | 1040.1 | 1043.8 |
| 20°   | 2276.9 | 1887.2 | 1180.1 | 882.5  | 886.9  | 931.1  | 967.2  | 993.7  | 1011.4 | 1017.3 | 1020.2 |
| 22.5° | 2270.3 | 1802.5 | 1033.5 | 821.3  | 857.4  | 901.6  | 932.6  | 962.8  | 939.2  | 920.1  | 914.9  |
| 25°   | 2242.3 | 1695.7 | 908.3  | 771.3  | 820.6  | 861.9  | 897.2  | 864.1  | 853.0  | 838.3  | 839.8  |
| 27.5° | 2181.9 | 1562.4 | 790.4  | 724.1  | 777.1  | 836.1  | 810.3  | 805.9  | 791.9  | 777.1  | 777.1  |
| 30°   | 2102.3 | 1421.7 | 691.7  | 674.8  | 724.8  | 754.3  | 760.2  | 753.6  | 745.5  | 726.3  | 727.8  |
| 32.5° | 2030.9 | 1272.9 | 621.7  | 633.5  | 691.7  | 691.7  | 717.5  | 717.5  | 688.0  | 634.2  | 634.2  |
| 35°   | 1960.2 | 1132.9 | 570.2  | 598.9  | 637.2  | 649.7  | 685.1  | 638.7  | 596.7  | 572.4  | 570.9  |
| 37.5° | 1904.9 | 1013.6 | 536.3  | 569.4  | 584.1  | 615.8  | 616.6  | 582.7  | 568.7  | 546.6  | 544.4  |
| 40°   | 1872.5 | 913.4  | 515.6  | 554.7  | 556.2  | 585.6  | 537.0  | 546.6  | 543.6  | 526.7  | 524.5  |
| 42.5° | 1854.8 | 836.1  | 500.2  | 542.2  | 534.8  | 506.1  | 497.2  | 513.4  | 518.6  | 509.7  | 506.1  |
| 45°   | 1840.8 | 775.7  | 487.6  | 498.7  | 517.9  | 465.6  | 461.9  | 474.4  | 485.4  | 484.7  | 481.8  |
| 47.5° | 1833.5 | 733.7  | 476.6  | 471.4  | 475.1  | 441.2  | 433.9  | 439.8  | 453.8  | 462.6  | 461.9  |
| 50°   | 1804.7 | 701.3  | 460.4  | 443.5  | 419.9  | 419.9  | 416.2  | 416.2  | 433.1  | 450.8  | 452.3  |
| 52.5° | 1753.9 | 663.0  | 436.8  | 416.9  | 389.7  | 401.5  | 402.9  | 400.0  | 417.7  | 436.8  | 438.3  |
| 55°   | 1697.9 | 634.2  | 405.1  | 392.6  | 364.6  | 384.5  | 391.2  | 388.2  | 400.0  | 413.2  | 412.5  |
| 57.5° | 1698.7 | 633.5  | 377.9  | 368.3  | 341.1  | 363.2  | 379.4  | 380.1  | 379.4  | 388.9  | 388.9  |
| 60°   | 1741.4 | 648.2  | 356.5  | 335.9  | 313.8  | 340.3  | 366.8  | 366.8  | 361.7  | 375.7  | 377.2  |
| 62.5° | 1753.9 | 646.8  | 343.3  | 305.0  | 289.5  | 319.7  | 348.4  | 352.8  | 349.2  | 369.1  | 371.3  |
| 65°   | 1643.4 | 612.1  | 330.0  | 277.0  | 267.4  | 296.9  | 325.6  | 338.1  | 334.4  | 360.2  | 363.2  |
| 67.5° | 1490.2 | 567.2  | 309.4  | 251.9  | 244.6  | 274.8  | 302.0  | 315.3  | 314.5  | 348.4  | 349.9  |
| 70°   | 1284.7 | 512.0  | 283.6  | 226.1  | 222.5  | 249.0  | 273.3  | 287.3  | 293.9  | 333.0  | 332.2  |
| 72.5° | 995.2  | 439.0  | 244.6  | 198.9  | 198.2  | 222.5  | 243.8  | 259.3  | 271.8  | 309.4  | 309.4  |
| 75°   | 641.6  | 345.5  | 199.6  | 172.4  | 169.4  | 192.3  | 214.4  | 232.0  | 270.3  | 330.0  | 329.3  |
| 77.5° | 391.9  | 263.7  | 160.6  | 143.6  | 142.9  | 163.5  | 185.6  | 215.8  | 295.4  | 293.9  | 285.8  |
| 80°   | 235.0  | 189.3  | 128.2  | 114.9  | 114.9  | 134.1  | 158.4  | 231.3  | 245.3  | 279.9  | 264.5  |
| 82.5° | 122.3  | 116.4  | 95.8   | 84.7   | 88.4   | 105.3  | 144.4  | 184.9  | 200.4  | 170.2  | 156.2  |
| 85°   | 50.1   | 61.9   | 58.9   | 53.8   | 56.0   | 72.9   | 139.2  | 148.1  | 118.6  | 124.5  | 125.2  |
| 87.5° | 16.9   | 27.3   | 27.3   | 21.4   | 23.6   | 51.6   | 82.5   | 49.4   | 59.7   | 35.4   | 26.5   |
| 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)