

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: P671742

Luminaire Tested: **CCP-SA-2D-835-U-SLL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671742  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-835-U-SLL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SLL  
distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7625.1 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

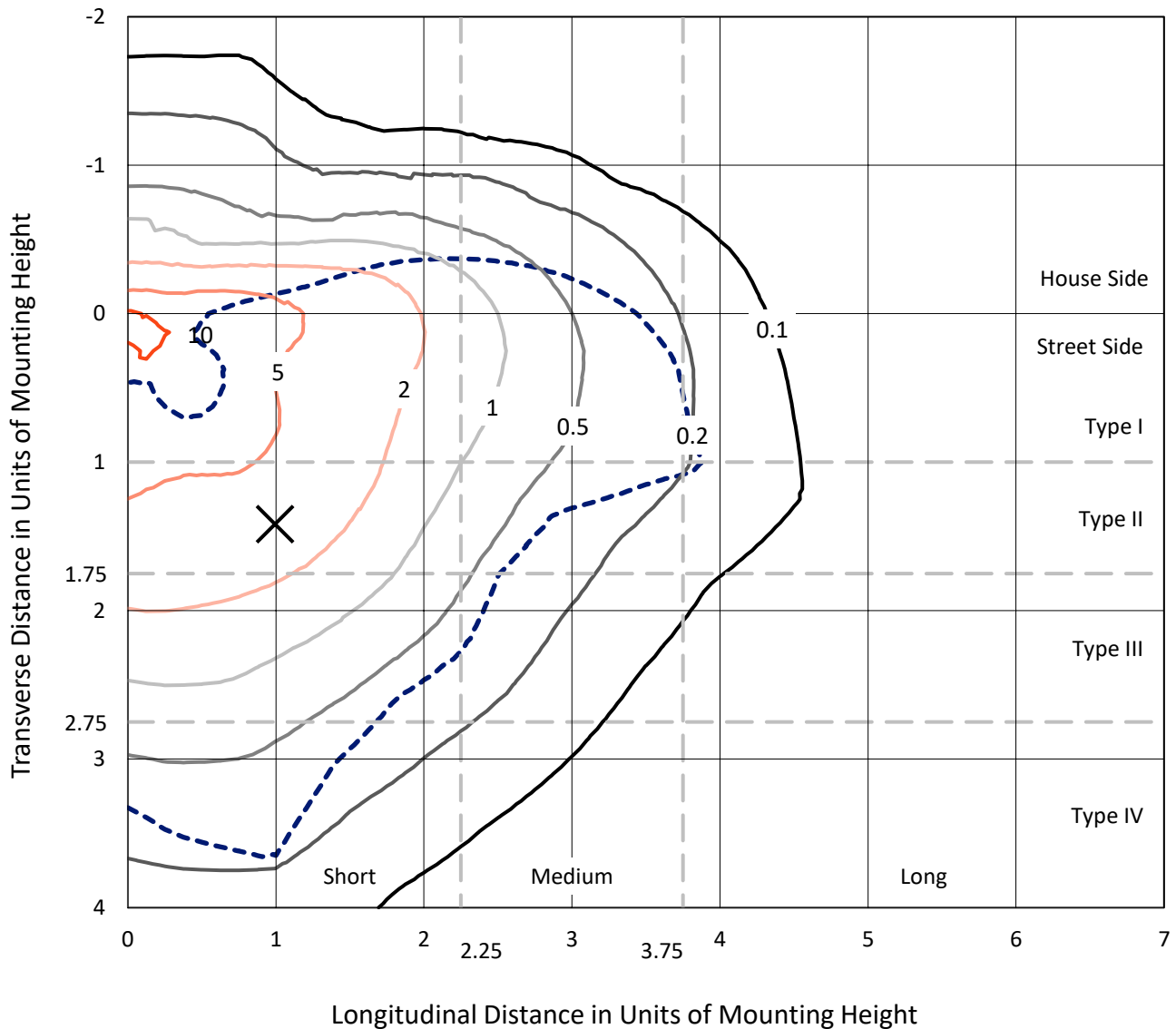
Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

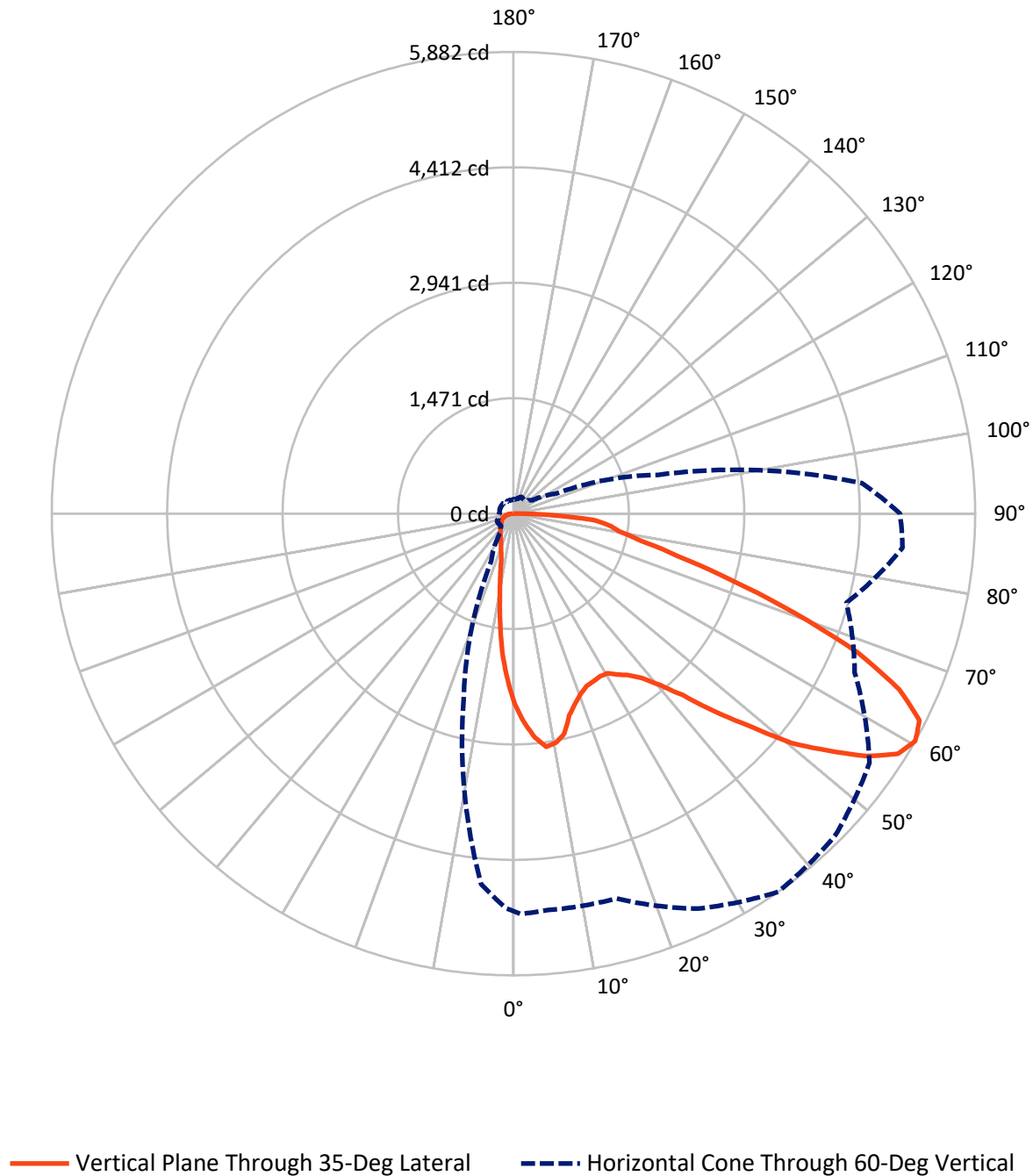


Based on 15 foot mounting height. Maximum calculated value = 12.3 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: CCP-SA-2D-835-U-SLL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1451.2   | 0.0    | 1451.2 |
|                    | % Fixture | 19.0     | 0.0    | 19.0   |
| <b>Street Side</b> | Lumens    | 6173.9   | 0.0    | 6173.9 |
|                    | % Fixture | 81.0     | 0.0    | 81.0   |
| <b>Total</b>       | Lumens    | 7625.1   | 0.0    | 7625.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.2  | 2.5       |
| 10°-20°   | 399.5  | 5.2       |
| 20°-30°   | 584.5  | 7.7       |
| 30°-40°   | 823.5  | 10.8      |
| 40°-50°   | 1131.7 | 14.8      |
| 50°-60°   | 1542.4 | 20.2      |
| 60°-70°   | 1688.0 | 22.1      |
| 70°-80°   | 974.6  | 12.8      |
| 80°-90°   | 291.8  | 3.8       |
| 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°    | 7625.1 | 100.0     |
| 0°-180°   | 7625.1 | 100.0     |

**Coefficient of Utilization**



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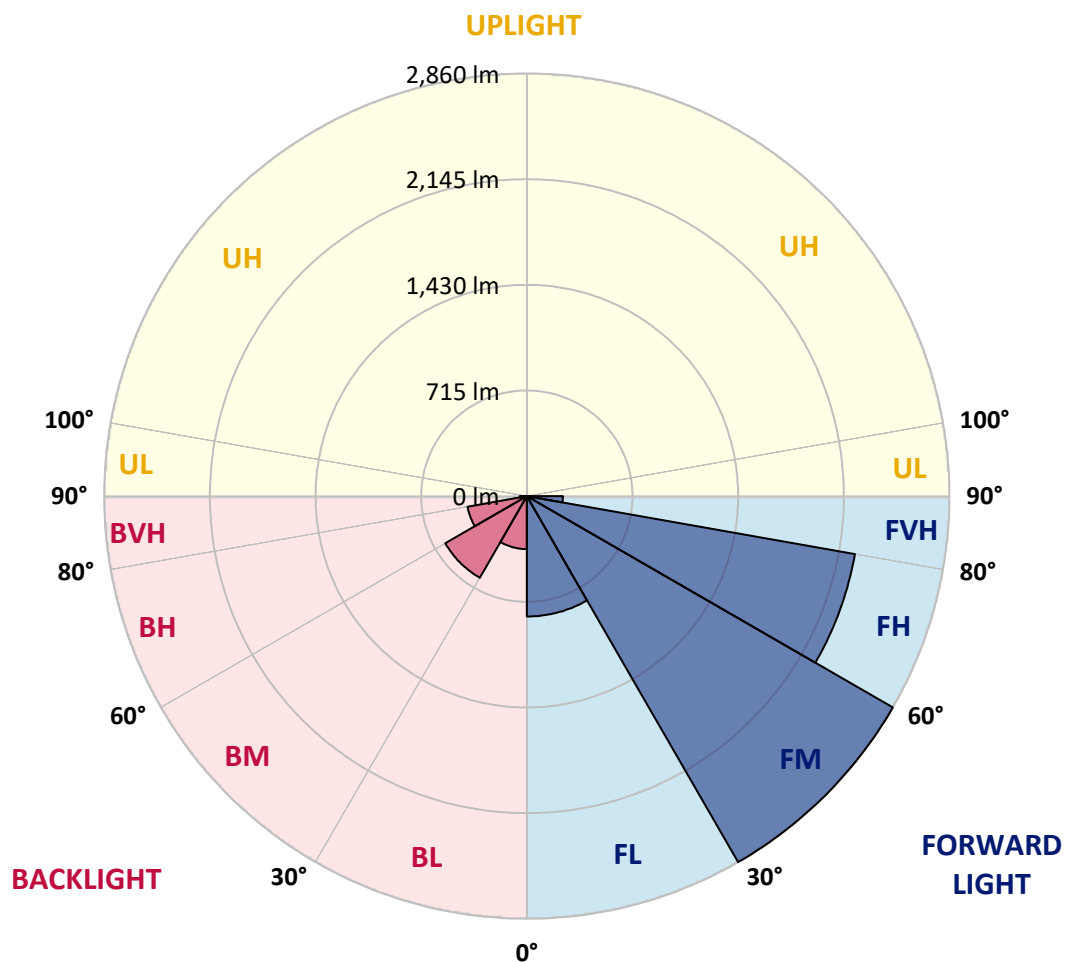
CATALOG NUMBER: CCP-SA-2D-835-U-SLL

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 814.6  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 2860.0 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 2255.0 | 29.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 244.3  | 3.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 358.5  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 637.5  | 8.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 407.6  | 5.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 47.6   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 |
| 2.5°  | 2607.9 | 2597.8 | 2607.9 | 2645.1 | 2655.3 | 2672.2 | 2672.2 | 2648.5 | 2604.5 | 2584.2 | 2550.4 |
| 5°    | 2665.4 | 2648.5 | 2733.1 | 2810.9 | 2871.8 | 2865.0 | 2807.5 | 2760.1 | 2672.2 | 2540.3 | 2415.1 |
| 7.5°  | 2550.4 | 2567.3 | 2628.2 | 2831.2 | 2973.2 | 3000.3 | 2909.0 | 2814.3 | 2624.8 | 2442.2 | 2273.1 |
| 10°   | 2333.9 | 2357.6 | 2489.5 | 2699.2 | 2922.5 | 2966.5 | 2909.0 | 2794.0 | 2567.3 | 2340.7 | 2144.5 |
| 12.5° | 2229.1 | 2283.2 | 2361.0 | 2614.7 | 2773.7 | 2878.5 | 2851.5 | 2777.0 | 2523.4 | 2256.1 | 2066.7 |
| 15°   | 2229.1 | 2242.6 | 2357.6 | 2570.7 | 2662.0 | 2665.4 | 2675.6 | 2689.1 | 2536.9 | 2293.3 | 2039.7 |
| 17.5° | 2300.1 | 2337.3 | 2435.4 | 2567.3 | 2584.2 | 2543.7 | 2543.7 | 2601.2 | 2563.9 | 2398.2 | 2137.8 |
| 20°   | 2472.6 | 2459.1 | 2587.6 | 2641.7 | 2550.4 | 2448.9 | 2438.8 | 2536.9 | 2594.4 | 2509.8 | 2317.0 |
| 22.5° | 2645.1 | 2706.0 | 2810.9 | 2689.1 | 2520.0 | 2384.7 | 2371.1 | 2492.9 | 2685.7 | 2702.6 | 2523.4 |
| 25°   | 2905.6 | 2966.5 | 3020.6 | 2871.8 | 2516.6 | 2367.8 | 2377.9 | 2472.6 | 2797.3 | 2976.6 | 2868.4 |
| 27.5° | 3186.3 | 3223.5 | 3301.3 | 3071.3 | 2597.8 | 2347.5 | 2357.6 | 2499.7 | 2902.2 | 3155.9 | 3139.0 |
| 30°   | 3345.3 | 3385.9 | 3369.0 | 3108.5 | 2651.9 | 2361.0 | 2333.9 | 2536.9 | 2844.7 | 3155.9 | 3314.9 |
| 32.5° | 3500.9 | 3477.2 | 3467.1 | 3169.4 | 2719.5 | 2445.6 | 2377.9 | 2614.7 | 2878.5 | 3206.6 | 3541.5 |
| 35°   | 3690.3 | 3656.5 | 3629.4 | 3287.8 | 2831.2 | 2526.7 | 2496.3 | 2716.2 | 2952.9 | 3311.5 | 3724.2 |
| 37.5° | 3900.0 | 3900.0 | 3768.1 | 3375.8 | 2963.1 | 2658.7 | 2624.8 | 2861.6 | 3071.3 | 3375.8 | 3974.5 |
| 40°   | 4147.0 | 4157.1 | 3923.7 | 3494.1 | 3111.9 | 2868.4 | 2858.2 | 3051.0 | 3186.3 | 3470.5 | 4214.6 |
| 42.5° | 4329.6 | 4336.4 | 4059.0 | 3538.1 | 3284.4 | 3159.3 | 3203.2 | 3355.5 | 3318.2 | 3555.0 | 4231.5 |
| 45°   | 4454.8 | 4421.0 | 4153.7 | 3663.3 | 3473.8 | 3595.6 | 3609.1 | 3653.1 | 3490.8 | 3605.8 | 4299.2 |
| 47.5° | 4515.7 | 4508.9 | 4194.3 | 3808.7 | 3873.0 | 4038.7 | 4116.5 | 4055.6 | 3649.7 | 3551.6 | 4299.2 |
| 50°   | 4576.5 | 4519.0 | 4231.5 | 4008.3 | 4262.0 | 4596.8 | 4579.9 | 4468.3 | 3869.6 | 3619.3 | 4234.9 |
| 52.5° | 4617.1 | 4566.4 | 4305.9 | 4187.6 | 4634.0 | 5012.9 | 5080.5 | 4874.2 | 4126.7 | 3744.4 | 4265.4 |
| 55°   | 4762.6 | 4722.0 | 4529.2 | 4431.1 | 5063.6 | 5452.6 | 5462.8 | 5175.3 | 4397.3 | 3950.8 | 4464.9 |
| 57.5° | 4938.5 | 4962.2 | 4837.0 | 4776.1 | 5391.7 | 5774.0 | 5736.7 | 5398.5 | 4627.3 | 4201.1 | 4694.9 |
| 60°   | 5063.6 | 5100.8 | 5070.4 | 5077.2 | 5554.1 | 5882.2 | 5797.6 | 5537.2 | 4796.4 | 4390.5 | 4975.7 |
| 62.5° | 4996.0 | 5070.4 | 5195.5 | 5168.5 | 5560.9 | 5804.4 | 5686.0 | 5354.5 | 4816.7 | 4637.4 | 5188.8 |
| 65°   | 4809.9 | 4816.7 | 5060.2 | 5209.1 | 5256.4 | 5401.9 | 5246.3 | 4972.3 | 4607.0 | 4789.6 | 5158.3 |
| 67.5° | 4333.0 | 4387.1 | 4607.0 | 4897.9 | 4698.3 | 4732.1 | 4718.6 | 4322.9 | 4289.0 | 4684.8 | 4924.9 |
| 70°   | 3825.6 | 3862.8 | 4103.0 | 4444.6 | 3967.7 | 3808.7 | 3839.2 | 3544.9 | 3683.6 | 4360.1 | 4454.8 |
| 72.5° | 3162.7 | 3186.3 | 3460.3 | 3761.4 | 3182.9 | 2898.8 | 2969.9 | 2729.7 | 2925.9 | 3815.5 | 3758.0 |
| 75°   | 2388.1 | 2432.0 | 2645.1 | 3000.3 | 2344.1 | 2161.4 | 2232.5 | 2134.4 | 2317.0 | 3142.4 | 2915.7 |
| 77.5° | 1698.0 | 1664.2 | 1928.0 | 2347.5 | 1762.3 | 1654.1 | 1660.8 | 1677.7 | 1873.9 | 2648.5 | 2093.8 |
| 80°   | 1156.8 | 1167.0 | 1403.7 | 1721.7 | 1383.4 | 1366.5 | 1349.6 | 1484.9 | 1572.9 | 2097.2 | 1522.1 |
| 82.5° | 686.7  | 686.7  | 947.1  | 1224.5 | 1092.6 | 1231.2 | 1153.4 | 1275.2 | 1231.2 | 1542.4 | 997.8  |
| 85°   | 321.3  | 321.3  | 487.1  | 882.8  | 845.6  | 1014.8 | 862.5  | 964.0  | 909.9  | 1075.6 | 449.9  |
| 87.5° | 54.1   | 47.4   | 98.1   | 433.0  | 348.4  | 395.8  | 155.6  | 514.1  | 571.6  | 750.9  | 111.6  |
| 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°    | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 |
| 2.5°  | 2513.2 | 2489.5 | 2442.2 | 2381.3 | 2330.6 | 2266.3 | 2246.0 | 2202.0 | 2141.1 | 2134.4 | 2107.3 |
| 5°    | 2367.8 | 2286.6 | 2185.1 | 2060.0 | 1975.4 | 1887.4 | 1813.0 | 1769.1 | 1718.3 | 1711.6 | 1698.0 |
| 7.5°  | 2208.8 | 2107.3 | 1938.2 | 1789.4 | 1643.9 | 1505.2 | 1437.6 | 1353.0 | 1295.5 | 1251.5 | 1231.2 |
| 10°   | 2060.0 | 1965.2 | 1755.5 | 1552.6 | 1424.0 | 1332.7 | 1251.5 | 1163.6 | 1092.6 | 1038.4 | 1018.1 |
| 12.5° | 1961.9 | 1850.2 | 1623.6 | 1430.8 | 1336.1 | 1231.2 | 1139.9 | 1045.2 | 953.9  | 882.8  | 845.6  |
| 15°   | 1917.9 | 1813.0 | 1583.0 | 1369.9 | 1231.2 | 1085.8 | 980.9  | 886.2  | 774.6  | 723.9  | 706.9  |
| 17.5° | 2022.7 | 1867.1 | 1569.5 | 1298.9 | 1102.7 | 937.0  | 808.4  | 706.9  | 625.8  | 575.0  | 554.7  |
| 20°   | 2158.0 | 1965.2 | 1593.2 | 1214.3 | 980.9  | 794.9  | 652.8  | 544.6  | 490.5  | 453.3  | 449.9  |
| 22.5° | 2330.6 | 2110.7 | 1630.4 | 1153.4 | 845.6  | 639.3  | 510.8  | 446.5  | 409.3  | 405.9  | 399.1  |
| 25°   | 2638.4 | 2374.5 | 1691.3 | 1072.3 | 737.4  | 527.7  | 436.3  | 399.1  | 382.2  | 372.1  | 378.8  |
| 27.5° | 2902.2 | 2547.0 | 1735.2 | 1021.5 | 693.4  | 497.2  | 422.8  | 382.2  | 365.3  | 361.9  | 365.3  |
| 30°   | 3057.8 | 2706.0 | 1721.7 | 926.8  | 605.5  | 473.6  | 449.9  | 436.3  | 402.5  | 375.5  | 375.5  |
| 32.5° | 3199.9 | 2807.5 | 1718.3 | 842.2  | 517.5  | 395.8  | 375.5  | 365.3  | 385.6  | 399.1  | 389.0  |
| 35°   | 3396.0 | 2966.5 | 1708.2 | 794.9  | 480.3  | 365.3  | 331.5  | 304.4  | 290.9  | 284.1  | 294.3  |
| 37.5° | 3605.8 | 3074.7 | 1681.1 | 788.1  | 460.0  | 348.4  | 321.3  | 294.3  | 280.7  | 274.0  | 270.6  |
| 40°   | 3835.8 | 3189.7 | 1650.7 | 754.3  | 449.9  | 338.3  | 311.2  | 287.5  | 270.6  | 260.5  | 257.1  |
| 42.5° | 3984.6 | 3281.0 | 1620.2 | 737.4  | 429.6  | 331.5  | 301.0  | 280.7  | 263.8  | 250.3  | 250.3  |
| 45°   | 4069.2 | 3389.3 | 1589.8 | 720.5  | 405.9  | 334.9  | 301.0  | 274.0  | 253.7  | 246.9  | 240.2  |
| 47.5° | 4106.4 | 3470.5 | 1579.6 | 693.4  | 385.6  | 321.3  | 294.3  | 267.2  | 246.9  | 233.4  | 230.0  |
| 50°   | 4204.5 | 3643.0 | 1616.8 | 673.1  | 361.9  | 307.8  | 311.2  | 263.8  | 243.5  | 226.6  | 223.2  |
| 52.5° | 4262.0 | 3781.7 | 1698.0 | 642.7  | 345.0  | 290.9  | 304.4  | 257.1  | 233.4  | 216.5  | 216.5  |
| 55°   | 4471.7 | 4011.7 | 1786.0 | 619.0  | 324.7  | 267.2  | 280.7  | 243.5  | 216.5  | 206.3  | 206.3  |
| 57.5° | 4738.9 | 4255.2 | 1860.4 | 608.9  | 311.2  | 250.3  | 250.3  | 236.8  | 206.3  | 192.8  | 189.4  |
| 60°   | 4924.9 | 4454.8 | 1904.4 | 602.1  | 297.7  | 233.4  | 223.2  | 236.8  | 196.2  | 182.7  | 179.3  |
| 62.5° | 4945.2 | 4339.8 | 1860.4 | 598.7  | 294.3  | 216.5  | 203.0  | 226.6  | 186.0  | 172.5  | 165.7  |
| 65°   | 4816.7 | 4106.4 | 1738.6 | 585.2  | 290.9  | 199.6  | 189.4  | 196.2  | 172.5  | 162.4  | 155.6  |
| 67.5° | 4559.6 | 3727.5 | 1562.7 | 578.4  | 287.5  | 186.0  | 172.5  | 169.1  | 159.0  | 148.8  | 142.1  |
| 70°   | 3960.9 | 3233.7 | 1356.4 | 548.0  | 280.7  | 175.9  | 155.6  | 152.2  | 142.1  | 135.3  | 131.9  |
| 72.5° | 3325.0 | 2645.1 | 1119.6 | 507.4  | 267.2  | 159.0  | 142.1  | 135.3  | 131.9  | 121.8  | 118.4  |
| 75°   | 2547.0 | 2036.3 | 896.4  | 449.9  | 233.4  | 142.1  | 125.2  | 118.4  | 115.0  | 108.2  | 104.9  |
| 77.5° | 1789.4 | 1515.4 | 663.0  | 365.3  | 196.2  | 128.5  | 111.6  | 104.9  | 101.5  | 91.3   | 91.3   |
| 80°   | 1214.3 | 1062.1 | 449.9  | 253.7  | 152.2  | 104.9  | 98.1   | 91.3   | 84.6   | 77.8   | 77.8   |
| 82.5° | 754.3  | 744.2  | 324.7  | 165.7  | 111.6  | 84.6   | 77.8   | 77.8   | 67.7   | 60.9   | 60.9   |
| 85°   | 345.0  | 456.6  | 226.6  | 115.0  | 84.6   | 64.3   | 64.3   | 60.9   | 54.1   | 44.0   | 44.0   |
| 87.5° | 108.2  | 152.2  | 118.4  | 50.7   | 47.4   | 37.2   | 37.2   | 33.8   | 33.8   | 27.1   | 27.1   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 |
| 2.5°  | 2134.4 | 2131.0 | 2131.0 | 2117.5 | 2151.3 | 2151.3 | 2171.6 | 2154.7 | 2164.8 | 2168.2 | 2195.3 |
| 5°    | 1694.6 | 1721.7 | 1742.0 | 1782.6 | 1806.3 | 1816.4 | 1816.4 | 1843.5 | 1833.3 | 1853.6 | 1894.2 |
| 7.5°  | 1241.4 | 1275.2 | 1336.1 | 1386.8 | 1427.4 | 1441.0 | 1437.6 | 1444.3 | 1454.5 | 1430.8 | 1437.6 |
| 10°   | 1004.6 | 980.9  | 1001.2 | 1048.6 | 1085.8 | 1129.8 | 1095.9 | 1092.6 | 1102.7 | 1092.6 | 1112.8 |
| 12.5° | 838.9  | 811.8  | 794.9  | 794.9  | 822.0  | 842.2  | 832.1  | 849.0  | 886.2  | 896.4  | 920.0  |
| 15°   | 679.9  | 656.2  | 642.7  | 625.8  | 652.8  | 659.6  | 669.7  | 693.4  | 720.5  | 734.0  | 761.1  |
| 17.5° | 544.6  | 544.6  | 544.6  | 531.1  | 541.2  | 551.4  | 554.7  | 585.2  | 588.6  | 602.1  | 612.2  |
| 20°   | 446.5  | 456.6  | 473.6  | 480.3  | 490.5  | 490.5  | 483.7  | 500.6  | 487.1  | 497.2  | 504.0  |
| 22.5° | 402.5  | 416.0  | 422.8  | 426.2  | 439.7  | 443.1  | 426.2  | 429.6  | 433.0  | 422.8  | 426.2  |
| 25°   | 378.8  | 385.6  | 378.8  | 382.2  | 385.6  | 378.8  | 382.2  | 389.0  | 385.6  | 392.4  | 389.0  |
| 27.5° | 368.7  | 361.9  | 358.5  | 355.2  | 355.2  | 348.4  | 351.8  | 351.8  | 358.5  | 361.9  | 361.9  |
| 30°   | 368.7  | 358.5  | 345.0  | 334.9  | 334.9  | 324.7  | 331.5  | 338.3  | 341.6  | 348.4  | 348.4  |
| 32.5° | 378.8  | 358.5  | 334.9  | 324.7  | 314.6  | 307.8  | 314.6  | 324.7  | 338.3  | 341.6  | 345.0  |
| 35°   | 301.0  | 311.2  | 307.8  | 294.3  | 290.9  | 290.9  | 287.5  | 287.5  | 277.4  | 277.4  | 274.0  |
| 37.5° | 270.6  | 267.2  | 274.0  | 277.4  | 280.7  | 270.6  | 270.6  | 257.1  | 253.7  | 257.1  | 257.1  |
| 40°   | 253.7  | 253.7  | 253.7  | 263.8  | 267.2  | 260.5  | 250.3  | 243.5  | 243.5  | 243.5  | 246.9  |
| 42.5° | 246.9  | 240.2  | 236.8  | 243.5  | 253.7  | 246.9  | 236.8  | 233.4  | 233.4  | 236.8  | 236.8  |
| 45°   | 236.8  | 233.4  | 230.0  | 226.6  | 240.2  | 230.0  | 226.6  | 223.2  | 223.2  | 223.2  | 226.6  |
| 47.5° | 226.6  | 223.2  | 216.5  | 216.5  | 219.9  | 216.5  | 213.1  | 213.1  | 213.1  | 219.9  | 219.9  |
| 50°   | 219.9  | 216.5  | 209.7  | 209.7  | 209.7  | 209.7  | 206.3  | 206.3  | 206.3  | 209.7  | 213.1  |
| 52.5° | 209.7  | 206.3  | 203.0  | 199.6  | 199.6  | 199.6  | 199.6  | 199.6  | 199.6  | 203.0  | 206.3  |
| 55°   | 199.6  | 196.2  | 192.8  | 192.8  | 196.2  | 196.2  | 192.8  | 196.2  | 192.8  | 196.2  | 199.6  |
| 57.5° | 189.4  | 186.0  | 182.7  | 186.0  | 189.4  | 186.0  | 186.0  | 186.0  | 186.0  | 186.0  | 189.4  |
| 60°   | 175.9  | 175.9  | 175.9  | 175.9  | 182.7  | 182.7  | 182.7  | 182.7  | 175.9  | 179.3  | 182.7  |
| 62.5° | 169.1  | 165.7  | 165.7  | 169.1  | 172.5  | 172.5  | 175.9  | 172.5  | 169.1  | 172.5  | 172.5  |
| 65°   | 155.6  | 155.6  | 155.6  | 159.0  | 159.0  | 162.4  | 162.4  | 162.4  | 159.0  | 162.4  | 162.4  |
| 67.5° | 145.4  | 145.4  | 145.4  | 145.4  | 152.2  | 152.2  | 152.2  | 152.2  | 148.8  | 148.8  | 152.2  |
| 70°   | 128.5  | 131.9  | 128.5  | 135.3  | 142.1  | 138.7  | 142.1  | 142.1  | 138.7  | 135.3  | 142.1  |
| 72.5° | 118.4  | 118.4  | 118.4  | 118.4  | 128.5  | 128.5  | 128.5  | 131.9  | 128.5  | 125.2  | 128.5  |
| 75°   | 104.9  | 104.9  | 104.9  | 108.2  | 115.0  | 115.0  | 115.0  | 115.0  | 115.0  | 111.6  | 111.6  |
| 77.5° | 91.3   | 94.7   | 91.3   | 94.7   | 101.5  | 98.1   | 101.5  | 104.9  | 101.5  | 98.1   | 98.1   |
| 80°   | 77.8   | 77.8   | 77.8   | 81.2   | 84.6   | 84.6   | 84.6   | 87.9   | 84.6   | 81.2   | 81.2   |
| 82.5° | 60.9   | 60.9   | 64.3   | 64.3   | 67.7   | 67.7   | 67.7   | 71.0   | 67.7   | 64.3   | 64.3   |
| 85°   | 47.4   | 47.4   | 47.4   | 50.7   | 50.7   | 54.1   | 54.1   | 57.5   | 57.5   | 54.1   | 54.1   |
| 87.5° | 30.4   | 27.1   | 30.4   | 30.4   | 33.8   | 33.8   | 30.4   | 27.1   | 30.4   | 27.1   | 23.7   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 | 2435.4 |
| 2.5°  | 2222.3 | 2283.2 | 2327.2 | 2357.6 | 2401.6 | 2486.2 | 2520.0 | 2580.9 | 2597.8 | 2607.9 |
| 5°    | 1911.1 | 1975.4 | 2070.1 | 2137.8 | 2215.5 | 2374.5 | 2496.3 | 2587.6 | 2628.2 | 2665.4 |
| 7.5°  | 1498.5 | 1583.0 | 1681.1 | 1769.1 | 1897.6 | 2093.8 | 2252.8 | 2442.2 | 2513.2 | 2550.4 |
| 10°   | 1170.4 | 1248.1 | 1356.4 | 1464.6 | 1643.9 | 1809.6 | 2036.3 | 2208.8 | 2306.9 | 2333.9 |
| 12.5° | 987.7  | 1079.0 | 1207.6 | 1339.5 | 1451.1 | 1640.5 | 1870.5 | 2120.8 | 2212.2 | 2229.1 |
| 15°   | 838.9  | 964.0  | 1095.9 | 1231.2 | 1359.8 | 1525.5 | 1772.4 | 2076.9 | 2212.2 | 2229.1 |
| 17.5° | 693.4  | 805.0  | 960.6  | 1106.1 | 1254.9 | 1481.5 | 1789.4 | 2114.1 | 2249.4 | 2300.1 |
| 20°   | 551.4  | 659.6  | 781.4  | 964.0  | 1167.0 | 1407.1 | 1826.6 | 2239.2 | 2418.5 | 2472.6 |
| 22.5° | 456.6  | 504.0  | 622.4  | 798.3  | 1038.4 | 1356.4 | 1863.8 | 2435.4 | 2624.8 | 2645.1 |
| 25°   | 399.1  | 433.0  | 507.4  | 673.1  | 937.0  | 1322.6 | 1951.7 | 2662.0 | 2905.6 | 2905.6 |
| 27.5° | 372.1  | 385.6  | 436.3  | 585.2  | 865.9  | 1292.1 | 2039.7 | 2912.3 | 3139.0 | 3186.3 |
| 30°   | 365.3  | 399.1  | 426.2  | 520.9  | 788.1  | 1207.6 | 2120.8 | 3108.5 | 3341.9 | 3345.3 |
| 32.5° | 358.5  | 351.8  | 372.1  | 453.3  | 693.4  | 1119.6 | 2188.5 | 3308.1 | 3490.8 | 3500.9 |
| 35°   | 280.7  | 294.3  | 328.1  | 399.1  | 622.4  | 1055.3 | 2222.3 | 3416.3 | 3680.2 | 3690.3 |
| 37.5° | 263.8  | 280.7  | 307.8  | 368.7  | 575.0  | 1001.2 | 2232.5 | 3626.1 | 3879.7 | 3900.0 |
| 40°   | 257.1  | 270.6  | 290.9  | 341.6  | 537.8  | 933.6  | 2252.8 | 3842.5 | 4174.0 | 4147.0 |
| 42.5° | 243.5  | 260.5  | 280.7  | 328.1  | 507.4  | 882.8  | 2256.1 | 3960.9 | 4329.6 | 4329.6 |
| 45°   | 240.2  | 250.3  | 274.0  | 328.1  | 473.6  | 838.9  | 2202.0 | 4079.3 | 4508.9 | 4454.8 |
| 47.5° | 226.6  | 246.9  | 267.2  | 318.0  | 433.0  | 794.9  | 2137.8 | 4140.2 | 4532.6 | 4515.7 |
| 50°   | 223.2  | 243.5  | 277.4  | 301.0  | 409.3  | 774.6  | 2124.2 | 4292.4 | 4579.9 | 4576.5 |
| 52.5° | 216.5  | 236.8  | 287.5  | 287.5  | 378.8  | 747.5  | 2188.5 | 4360.1 | 4590.1 | 4617.1 |
| 55°   | 206.3  | 236.8  | 267.2  | 263.8  | 351.8  | 713.7  | 2259.5 | 4536.0 | 4769.3 | 4762.6 |
| 57.5° | 199.6  | 230.0  | 253.7  | 240.2  | 321.3  | 690.0  | 2364.4 | 4705.1 | 4985.8 | 4938.5 |
| 60°   | 189.4  | 230.0  | 226.6  | 223.2  | 297.7  | 669.7  | 2452.3 | 4738.9 | 5033.2 | 5063.6 |
| 62.5° | 182.7  | 240.2  | 199.6  | 206.3  | 277.4  | 659.6  | 2415.1 | 4485.2 | 4968.9 | 4996.0 |
| 65°   | 175.9  | 206.3  | 182.7  | 189.4  | 270.6  | 639.3  | 2269.7 | 4180.8 | 4691.6 | 4809.9 |
| 67.5° | 162.4  | 169.1  | 169.1  | 175.9  | 263.8  | 591.9  | 1972.0 | 3632.8 | 4268.7 | 4333.0 |
| 70°   | 148.8  | 152.2  | 152.2  | 162.4  | 257.1  | 537.8  | 1627.0 | 3142.4 | 3703.9 | 3825.6 |
| 72.5° | 135.3  | 135.3  | 135.3  | 148.8  | 236.8  | 493.8  | 1339.5 | 2415.1 | 3078.1 | 3162.7 |
| 75°   | 118.4  | 118.4  | 118.4  | 131.9  | 213.1  | 449.9  | 1055.3 | 1796.1 | 2266.3 | 2388.1 |
| 77.5° | 104.9  | 104.9  | 101.5  | 118.4  | 186.0  | 365.3  | 761.1  | 1268.4 | 1596.5 | 1698.0 |
| 80°   | 87.9   | 84.6   | 84.6   | 94.7   | 145.4  | 263.8  | 490.5  | 896.4  | 1112.8 | 1156.8 |
| 82.5° | 71.0   | 67.7   | 64.3   | 71.0   | 104.9  | 165.7  | 304.4  | 625.8  | 713.7  | 686.7  |
| 85°   | 67.7   | 71.0   | 57.5   | 54.1   | 74.4   | 108.2  | 192.8  | 385.6  | 321.3  | 321.3  |
| 87.5° | 27.1   | 23.7   | 23.7   | 20.3   | 37.2   | 40.6   | 84.6   | 71.0   | 54.1   | 54.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)