

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: P671698

Luminaire Tested: **CCP-SA-2D-750-U-SLL**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P671698  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-750-U-SLL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ SLL  
distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9465.7 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

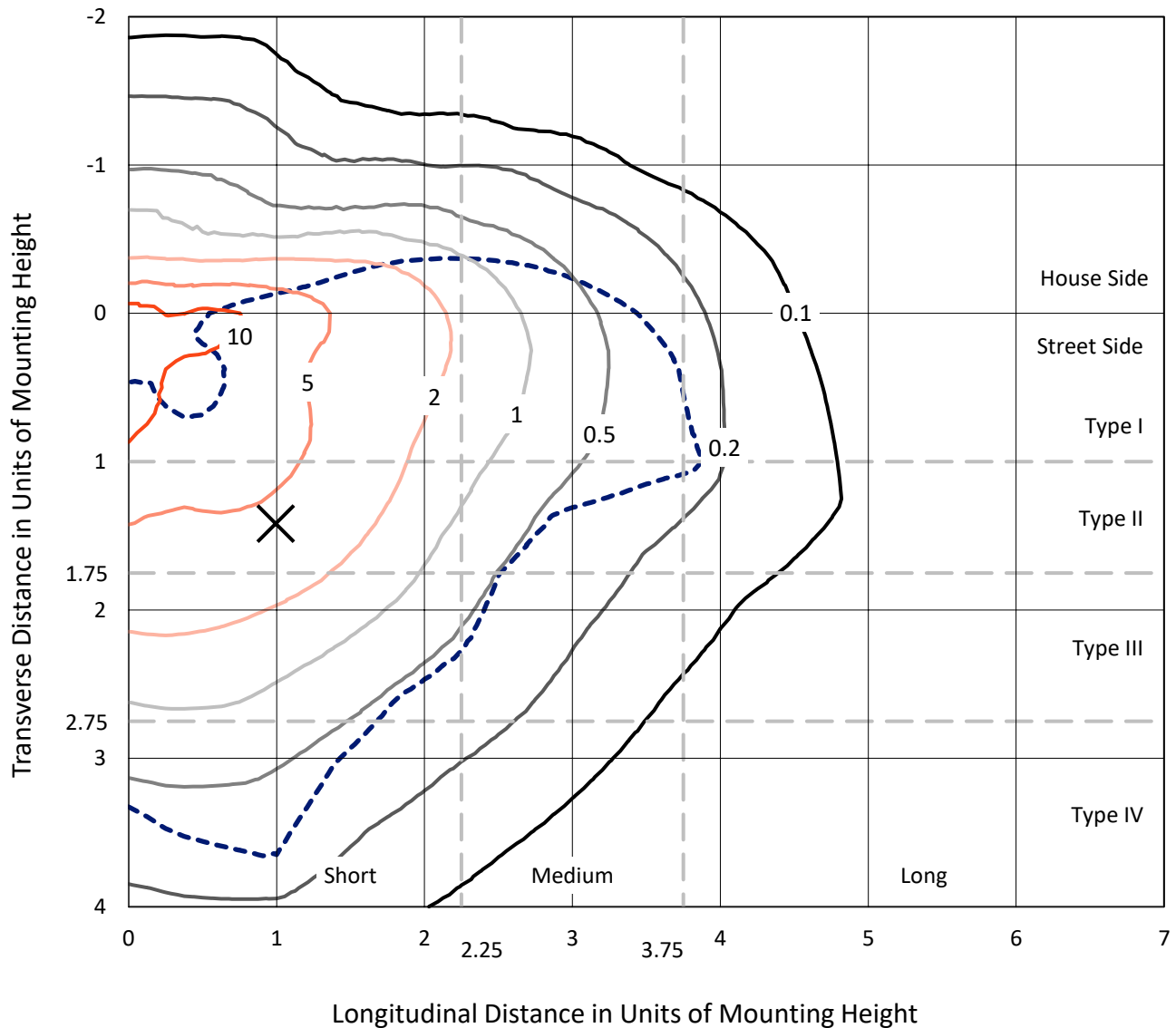
Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

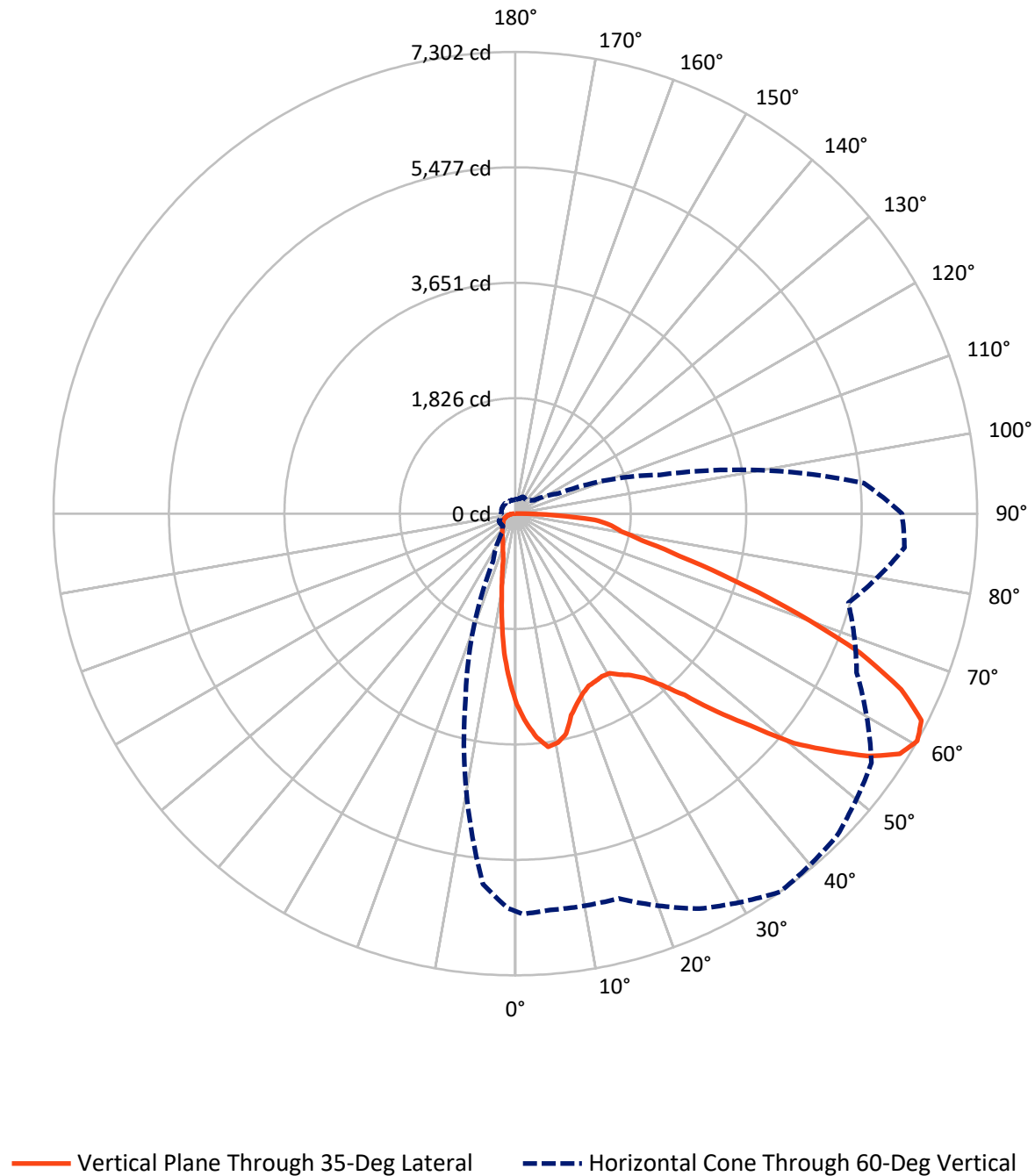
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.3 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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CATALOG NUMBER: CCP-SA-2D-750-U-SLL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1801.4   | 0.0    | 1801.4 |
|                    | % Fixture | 19.0     | 0.0    | 19.0   |
| <b>Street Side</b> | Lumens    | 7664.2   | 0.0    | 7664.2 |
|                    | % Fixture | 81.0     | 0.0    | 81.0   |
| <b>Total</b>       | Lumens    | 9465.7   | 0.0    | 9465.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 234.9  | 2.5       |
| 10°-20°   | 495.9  | 5.2       |
| 20°-30°   | 725.5  | 7.7       |
| 30°-40°   | 1022.2 | 10.8      |
| 40°-50°   | 1404.9 | 14.8      |
| 50°-60°   | 1914.6 | 20.2      |
| 60°-70°   | 2095.5 | 22.1      |
| 70°-80°   | 1209.8 | 12.8      |
| 80°-90°   | 362.3  | 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°    | 9465.7 | 100.0     |
| 0°-180°   | 9465.7 | 100.0     |

**Coefficient of Utilization**



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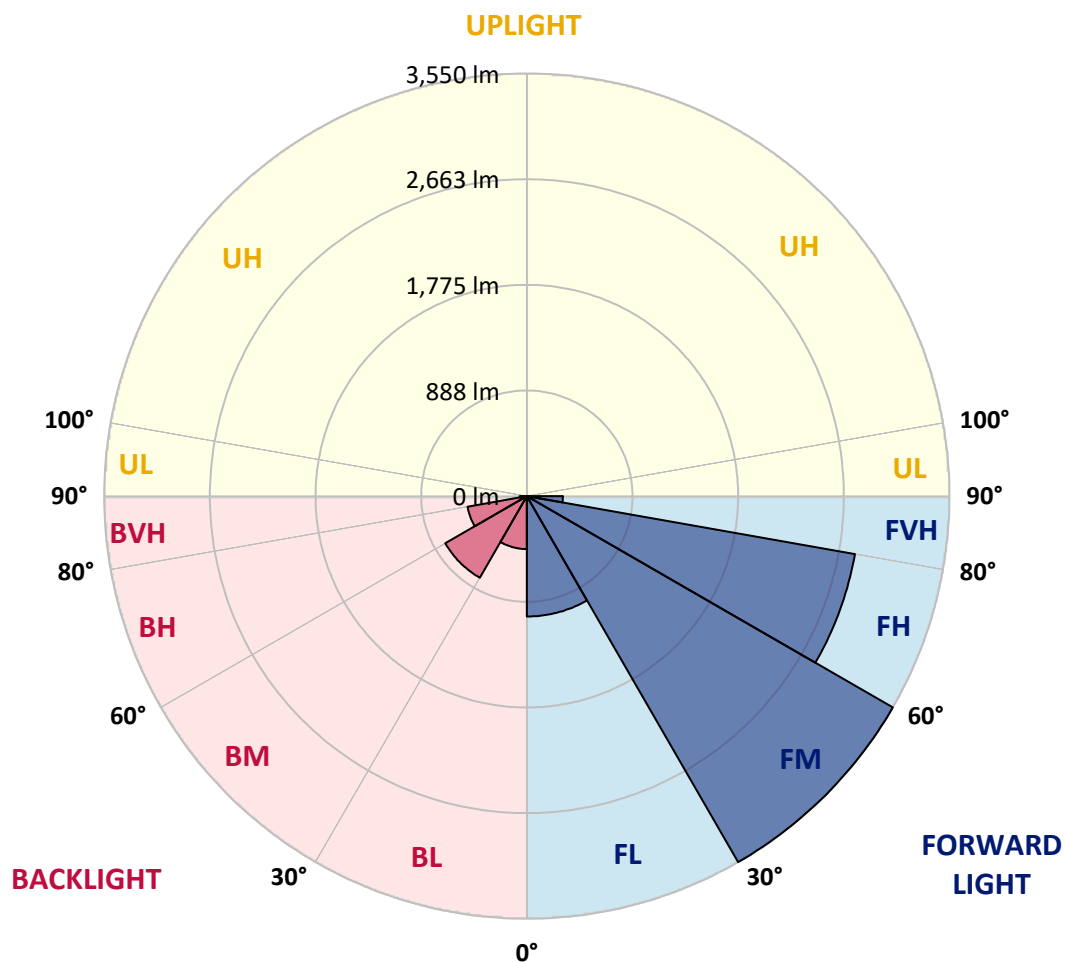
CATALOG NUMBER: CCP-SA-2D-750-U-SLL

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1011.2 | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 3550.4 | 37.5      |                         |      |         |
| FH   | (60°-80°)   | 2799.4 | 29.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 303.3  | 3.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 445.1  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 791.3  | 8.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 506.0  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 59.0   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 |
| 2.5°  | 3237.4 | 3224.8 | 3237.4 | 3283.6 | 3296.2 | 3317.2 | 3317.2 | 3287.8 | 3233.2 | 3208.0 | 3166.0 |
| 5°    | 3308.8 | 3287.8 | 3392.8 | 3489.4 | 3565.0 | 3556.6 | 3485.2 | 3426.4 | 3317.2 | 3153.4 | 2998.1 |
| 7.5°  | 3166.0 | 3187.0 | 3262.6 | 3514.6 | 3690.9 | 3724.5 | 3611.1 | 3493.6 | 3258.4 | 3031.7 | 2821.7 |
| 10°   | 2897.3 | 2926.7 | 3090.5 | 3350.8 | 3627.9 | 3682.5 | 3611.1 | 3468.4 | 3187.0 | 2905.7 | 2662.2 |
| 12.5° | 2767.1 | 2834.3 | 2930.9 | 3245.8 | 3443.2 | 3573.3 | 3539.8 | 3447.4 | 3132.5 | 2800.7 | 2565.6 |
| 15°   | 2767.1 | 2783.9 | 2926.7 | 3191.2 | 3304.6 | 3308.8 | 3321.4 | 3338.2 | 3149.3 | 2846.9 | 2532.0 |
| 17.5° | 2855.3 | 2901.5 | 3023.3 | 3187.0 | 3208.0 | 3157.6 | 3157.6 | 3229.0 | 3182.8 | 2977.1 | 2653.8 |
| 20°   | 3069.5 | 3052.7 | 3212.2 | 3279.4 | 3166.0 | 3040.1 | 3027.5 | 3149.3 | 3220.6 | 3115.7 | 2876.3 |
| 22.5° | 3283.6 | 3359.2 | 3489.4 | 3338.2 | 3128.3 | 2960.3 | 2943.5 | 3094.7 | 3334.0 | 3355.0 | 3132.5 |
| 25°   | 3606.9 | 3682.5 | 3749.7 | 3565.0 | 3124.1 | 2939.3 | 2951.9 | 3069.5 | 3472.6 | 3695.1 | 3560.8 |
| 27.5° | 3955.5 | 4001.6 | 4098.2 | 3812.7 | 3224.8 | 2914.1 | 2926.7 | 3103.1 | 3602.7 | 3917.7 | 3896.7 |
| 30°   | 4152.8 | 4203.2 | 4182.2 | 3858.9 | 3292.0 | 2930.9 | 2897.3 | 3149.3 | 3531.4 | 3917.7 | 4115.0 |
| 32.5° | 4346.0 | 4316.6 | 4304.0 | 3934.5 | 3376.0 | 3035.9 | 2951.9 | 3245.8 | 3573.3 | 3980.7 | 4396.4 |
| 35°   | 4581.1 | 4539.1 | 4505.5 | 4081.4 | 3514.6 | 3136.7 | 3098.9 | 3371.8 | 3665.7 | 4110.8 | 4623.1 |
| 37.5° | 4841.4 | 4841.4 | 4677.7 | 4190.6 | 3678.3 | 3300.4 | 3258.4 | 3552.4 | 3812.7 | 4190.6 | 4933.8 |
| 40°   | 5148.0 | 5160.6 | 4870.8 | 4337.6 | 3863.1 | 3560.8 | 3548.2 | 3787.5 | 3955.5 | 4308.2 | 5232.0 |
| 42.5° | 5374.7 | 5383.1 | 5038.8 | 4392.2 | 4077.2 | 3921.9 | 3976.5 | 4165.4 | 4119.2 | 4413.2 | 5253.0 |
| 45°   | 5530.1 | 5488.1 | 5156.4 | 4547.5 | 4312.4 | 4463.5 | 4480.3 | 4534.9 | 4333.4 | 4476.1 | 5336.9 |
| 47.5° | 5605.7 | 5597.3 | 5206.8 | 4728.1 | 4807.9 | 5013.6 | 5110.2 | 5034.6 | 4530.7 | 4409.0 | 5336.9 |
| 50°   | 5681.2 | 5609.9 | 5253.0 | 4975.8 | 5290.7 | 5706.4 | 5685.4 | 5546.9 | 4803.7 | 4492.9 | 5257.1 |
| 52.5° | 5731.6 | 5668.7 | 5345.3 | 5198.4 | 5752.6 | 6222.9 | 6306.9 | 6050.8 | 5122.8 | 4648.3 | 5294.9 |
| 55°   | 5912.2 | 5861.8 | 5622.5 | 5500.7 | 6285.9 | 6768.8 | 6781.4 | 6424.5 | 5458.7 | 4904.4 | 5542.7 |
| 57.5° | 6130.5 | 6159.9 | 6004.6 | 5929.0 | 6693.2 | 7167.7 | 7121.5 | 6701.6 | 5744.2 | 5215.2 | 5828.2 |
| 60°   | 6285.9 | 6332.1 | 6294.3 | 6302.7 | 6894.8 | 7302.1 | 7197.1 | 6873.8 | 5954.2 | 5450.3 | 6176.7 |
| 62.5° | 6201.9 | 6294.3 | 6449.7 | 6416.1 | 6903.2 | 7205.5 | 7058.5 | 6647.0 | 5979.4 | 5756.8 | 6441.3 |
| 65°   | 5971.0 | 5979.4 | 6281.7 | 6466.5 | 6525.2 | 6705.8 | 6512.7 | 6172.5 | 5719.0 | 5945.8 | 6403.5 |
| 67.5° | 5378.9 | 5446.1 | 5719.0 | 6080.2 | 5832.4 | 5874.4 | 5857.6 | 5366.3 | 5324.3 | 5815.6 | 6113.7 |
| 70°   | 4749.1 | 4795.3 | 5093.4 | 5517.5 | 4925.4 | 4728.1 | 4765.9 | 4400.6 | 4572.7 | 5412.5 | 5530.1 |
| 72.5° | 3926.1 | 3955.5 | 4295.6 | 4669.3 | 3951.3 | 3598.5 | 3686.7 | 3388.6 | 3632.1 | 4736.5 | 4665.1 |
| 75°   | 2964.5 | 3019.1 | 3283.6 | 3724.5 | 2909.9 | 2683.2 | 2771.3 | 2649.6 | 2876.3 | 3900.9 | 3619.5 |
| 77.5° | 2107.9 | 2065.9 | 2393.4 | 2914.1 | 2187.7 | 2053.3 | 2061.7 | 2082.7 | 2326.2 | 3287.8 | 2599.2 |
| 80°   | 1436.1 | 1448.7 | 1742.6 | 2137.3 | 1717.4 | 1696.4 | 1675.4 | 1843.4 | 1952.5 | 2603.4 | 1889.6 |
| 82.5° | 852.4  | 852.4  | 1175.7 | 1520.0 | 1356.3 | 1528.4 | 1431.9 | 1583.0 | 1528.4 | 1914.7 | 1238.7 |
| 85°   | 398.9  | 398.9  | 604.7  | 1095.9 | 1049.8 | 1259.7 | 1070.7 | 1196.7 | 1129.5 | 1335.3 | 558.5  |
| 87.5° | 67.2   | 58.8   | 121.8  | 537.5  | 432.5  | 491.3  | 193.2  | 638.2  | 709.6  | 932.2  | 138.6  |
| 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°    | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 |
| 2.5°  | 3119.9 | 3090.5 | 3031.7 | 2956.1 | 2893.1 | 2813.3 | 2788.1 | 2733.5 | 2658.0 | 2649.6 | 2616.0 |
| 5°    | 2939.3 | 2838.5 | 2712.6 | 2557.2 | 2452.2 | 2343.0 | 2250.7 | 2196.1 | 2133.1 | 2124.7 | 2107.9 |
| 7.5°  | 2741.9 | 2616.0 | 2406.0 | 2221.3 | 2040.7 | 1868.6 | 1784.6 | 1679.6 | 1608.2 | 1553.6 | 1528.4 |
| 10°   | 2557.2 | 2439.6 | 2179.3 | 1927.3 | 1767.8 | 1654.4 | 1553.6 | 1444.5 | 1356.3 | 1289.1 | 1263.9 |
| 12.5° | 2435.4 | 2296.9 | 2015.5 | 1776.2 | 1658.6 | 1528.4 | 1415.1 | 1297.5 | 1184.1 | 1095.9 | 1049.8 |
| 15°   | 2380.8 | 2250.7 | 1965.1 | 1700.6 | 1528.4 | 1347.9 | 1217.7 | 1100.1 | 961.6  | 898.6  | 877.6  |
| 17.5° | 2511.0 | 2317.8 | 1948.3 | 1612.4 | 1368.9 | 1163.1 | 1003.6 | 877.6  | 776.8  | 713.8  | 688.6  |
| 20°   | 2679.0 | 2439.6 | 1977.7 | 1507.4 | 1217.7 | 986.8  | 810.4  | 676.0  | 608.9  | 562.7  | 558.5  |
| 22.5° | 2893.1 | 2620.2 | 2023.9 | 1431.9 | 1049.8 | 793.6  | 634.0  | 554.3  | 508.1  | 503.9  | 495.5  |
| 25°   | 3275.2 | 2947.7 | 2099.5 | 1331.1 | 915.4  | 655.0  | 541.7  | 495.5  | 474.5  | 461.9  | 470.3  |
| 27.5° | 3602.7 | 3161.8 | 2154.1 | 1268.1 | 860.8  | 617.3  | 524.9  | 474.5  | 453.5  | 449.3  | 453.5  |
| 30°   | 3795.9 | 3359.2 | 2137.3 | 1150.5 | 751.6  | 587.9  | 558.5  | 541.7  | 499.7  | 466.1  | 466.1  |
| 32.5° | 3972.3 | 3485.2 | 2133.1 | 1045.6 | 642.4  | 491.3  | 466.1  | 453.5  | 478.7  | 495.5  | 482.9  |
| 35°   | 4215.8 | 3682.5 | 2120.5 | 986.8  | 596.3  | 453.5  | 411.5  | 377.9  | 361.1  | 352.7  | 365.3  |
| 37.5° | 4476.1 | 3816.9 | 2086.9 | 978.4  | 571.1  | 432.5  | 398.9  | 365.3  | 348.5  | 340.1  | 335.9  |
| 40°   | 4761.7 | 3959.7 | 2049.1 | 936.4  | 558.5  | 419.9  | 386.3  | 356.9  | 335.9  | 323.3  | 319.1  |
| 42.5° | 4946.4 | 4073.0 | 2011.3 | 915.4  | 533.3  | 411.5  | 373.7  | 348.5  | 327.5  | 310.7  | 310.7  |
| 45°   | 5051.4 | 4207.4 | 1973.5 | 894.4  | 503.9  | 415.7  | 373.7  | 340.1  | 314.9  | 306.5  | 298.1  |
| 47.5° | 5097.6 | 4308.2 | 1960.9 | 860.8  | 478.7  | 398.9  | 365.3  | 331.7  | 306.5  | 289.7  | 285.5  |
| 50°   | 5219.4 | 4522.3 | 2007.1 | 835.6  | 449.3  | 382.1  | 386.3  | 327.5  | 302.3  | 281.3  | 277.1  |
| 52.5° | 5290.7 | 4694.5 | 2107.9 | 797.8  | 428.3  | 361.1  | 377.9  | 319.1  | 289.7  | 268.7  | 268.7  |
| 55°   | 5551.1 | 4980.0 | 2217.1 | 768.4  | 403.1  | 331.7  | 348.5  | 302.3  | 268.7  | 256.1  | 256.1  |
| 57.5° | 5882.8 | 5282.3 | 2309.5 | 755.8  | 386.3  | 310.7  | 310.7  | 293.9  | 256.1  | 239.3  | 235.1  |
| 60°   | 6113.7 | 5530.1 | 2364.0 | 747.4  | 369.5  | 289.7  | 277.1  | 293.9  | 243.5  | 226.7  | 222.5  |
| 62.5° | 6138.9 | 5387.3 | 2309.5 | 743.2  | 365.3  | 268.7  | 251.9  | 281.3  | 230.9  | 214.1  | 205.8  |
| 65°   | 5979.4 | 5097.6 | 2158.3 | 726.4  | 361.1  | 247.7  | 235.1  | 243.5  | 214.1  | 201.6  | 193.2  |
| 67.5° | 5660.3 | 4627.3 | 1939.9 | 718.0  | 356.9  | 230.9  | 214.1  | 210.0  | 197.4  | 184.8  | 176.4  |
| 70°   | 4917.0 | 4014.2 | 1683.8 | 680.2  | 348.5  | 218.3  | 193.2  | 189.0  | 176.4  | 168.0  | 163.8  |
| 72.5° | 4127.6 | 3283.6 | 1389.9 | 629.9  | 331.7  | 197.4  | 176.4  | 168.0  | 163.8  | 151.2  | 147.0  |
| 75°   | 3161.8 | 2527.8 | 1112.7 | 558.5  | 289.7  | 176.4  | 155.4  | 147.0  | 142.8  | 134.4  | 130.2  |
| 77.5° | 2221.3 | 1881.2 | 823.0  | 453.5  | 243.5  | 159.6  | 138.6  | 130.2  | 126.0  | 113.4  | 113.4  |
| 80°   | 1507.4 | 1318.5 | 558.5  | 314.9  | 189.0  | 130.2  | 121.8  | 113.4  | 105.0  | 96.6   | 96.6   |
| 82.5° | 936.4  | 923.8  | 403.1  | 205.8  | 138.6  | 105.0  | 96.6   | 96.6   | 84.0   | 75.6   | 75.6   |
| 85°   | 428.3  | 566.9  | 281.3  | 142.8  | 105.0  | 79.8   | 79.8   | 75.6   | 67.2   | 54.6   | 54.6   |
| 87.5° | 134.4  | 189.0  | 147.0  | 63.0   | 58.8   | 46.2   | 46.2   | 42.0   | 42.0   | 33.6   | 33.6   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 |
| 2.5°  | 2649.6 | 2645.4 | 2645.4 | 2628.6 | 2670.6 | 2670.6 | 2695.8 | 2674.8 | 2687.4 | 2691.6 | 2725.2 |
| 5°    | 2103.7 | 2137.3 | 2162.5 | 2212.9 | 2242.3 | 2254.9 | 2254.9 | 2288.5 | 2275.9 | 2301.1 | 2351.4 |
| 7.5°  | 1541.0 | 1583.0 | 1658.6 | 1721.6 | 1772.0 | 1788.8 | 1784.6 | 1793.0 | 1805.6 | 1776.2 | 1784.6 |
| 10°   | 1247.1 | 1217.7 | 1242.9 | 1301.7 | 1347.9 | 1402.5 | 1360.5 | 1356.3 | 1368.9 | 1356.3 | 1381.5 |
| 12.5° | 1041.4 | 1007.8 | 986.8  | 986.8  | 1020.4 | 1045.6 | 1033.0 | 1053.9 | 1100.1 | 1112.7 | 1142.1 |
| 15°   | 844.0  | 814.6  | 797.8  | 776.8  | 810.4  | 818.8  | 831.4  | 860.8  | 894.4  | 911.2  | 944.8  |
| 17.5° | 676.0  | 676.0  | 676.0  | 659.2  | 671.8  | 684.4  | 688.6  | 726.4  | 730.6  | 747.4  | 760.0  |
| 20°   | 554.3  | 566.9  | 587.9  | 596.3  | 608.9  | 608.9  | 600.5  | 621.5  | 604.7  | 617.3  | 625.7  |
| 22.5° | 499.7  | 516.5  | 524.9  | 529.1  | 545.9  | 550.1  | 529.1  | 533.3  | 537.5  | 524.9  | 529.1  |
| 25°   | 470.3  | 478.7  | 470.3  | 474.5  | 478.7  | 470.3  | 474.5  | 482.9  | 478.7  | 487.1  | 482.9  |
| 27.5° | 457.7  | 449.3  | 445.1  | 440.9  | 440.9  | 432.5  | 436.7  | 436.7  | 445.1  | 449.3  | 449.3  |
| 30°   | 457.7  | 445.1  | 428.3  | 415.7  | 415.7  | 403.1  | 411.5  | 419.9  | 424.1  | 432.5  | 432.5  |
| 32.5° | 470.3  | 445.1  | 415.7  | 403.1  | 390.5  | 382.1  | 390.5  | 403.1  | 419.9  | 424.1  | 428.3  |
| 35°   | 373.7  | 386.3  | 382.1  | 365.3  | 361.1  | 361.1  | 356.9  | 356.9  | 344.3  | 344.3  | 340.1  |
| 37.5° | 335.9  | 331.7  | 340.1  | 344.3  | 348.5  | 335.9  | 335.9  | 319.1  | 314.9  | 319.1  | 319.1  |
| 40°   | 314.9  | 314.9  | 314.9  | 327.5  | 331.7  | 323.3  | 310.7  | 302.3  | 302.3  | 302.3  | 306.5  |
| 42.5° | 306.5  | 298.1  | 293.9  | 302.3  | 314.9  | 306.5  | 293.9  | 289.7  | 289.7  | 293.9  | 293.9  |
| 45°   | 293.9  | 289.7  | 285.5  | 281.3  | 298.1  | 285.5  | 281.3  | 277.1  | 277.1  | 277.1  | 281.3  |
| 47.5° | 281.3  | 277.1  | 268.7  | 268.7  | 272.9  | 268.7  | 264.5  | 264.5  | 264.5  | 272.9  | 272.9  |
| 50°   | 272.9  | 268.7  | 260.3  | 260.3  | 260.3  | 260.3  | 256.1  | 256.1  | 256.1  | 260.3  | 264.5  |
| 52.5° | 260.3  | 256.1  | 251.9  | 247.7  | 247.7  | 247.7  | 247.7  | 247.7  | 247.7  | 251.9  | 256.1  |
| 55°   | 247.7  | 243.5  | 239.3  | 239.3  | 243.5  | 243.5  | 239.3  | 243.5  | 239.3  | 243.5  | 247.7  |
| 57.5° | 235.1  | 230.9  | 226.7  | 230.9  | 235.1  | 230.9  | 230.9  | 230.9  | 230.9  | 230.9  | 235.1  |
| 60°   | 218.3  | 218.3  | 218.3  | 218.3  | 226.7  | 226.7  | 226.7  | 226.7  | 218.3  | 222.5  | 226.7  |
| 62.5° | 210.0  | 205.8  | 205.8  | 210.0  | 214.1  | 214.1  | 218.3  | 214.1  | 210.0  | 214.1  | 214.1  |
| 65°   | 193.2  | 193.2  | 193.2  | 197.4  | 197.4  | 201.6  | 201.6  | 201.6  | 197.4  | 201.6  | 201.6  |
| 67.5° | 180.6  | 180.6  | 180.6  | 180.6  | 189.0  | 189.0  | 189.0  | 189.0  | 184.8  | 184.8  | 189.0  |
| 70°   | 159.6  | 163.8  | 159.6  | 168.0  | 176.4  | 172.2  | 176.4  | 176.4  | 172.2  | 168.0  | 176.4  |
| 72.5° | 147.0  | 147.0  | 147.0  | 147.0  | 159.6  | 159.6  | 159.6  | 163.8  | 159.6  | 155.4  | 159.6  |
| 75°   | 130.2  | 130.2  | 130.2  | 134.4  | 142.8  | 142.8  | 142.8  | 142.8  | 142.8  | 138.6  | 138.6  |
| 77.5° | 113.4  | 117.6  | 113.4  | 117.6  | 126.0  | 121.8  | 126.0  | 130.2  | 126.0  | 121.8  | 121.8  |
| 80°   | 96.6   | 96.6   | 96.6   | 100.8  | 105.0  | 105.0  | 105.0  | 109.2  | 105.0  | 100.8  | 100.8  |
| 82.5° | 75.6   | 75.6   | 79.8   | 79.8   | 84.0   | 84.0   | 84.0   | 88.2   | 84.0   | 79.8   | 79.8   |
| 85°   | 58.8   | 58.8   | 58.8   | 63.0   | 63.0   | 67.2   | 67.2   | 71.4   | 71.4   | 67.2   | 67.2   |
| 87.5° | 37.8   | 33.6   | 37.8   | 37.8   | 42.0   | 42.0   | 37.8   | 33.6   | 37.8   | 33.6   | 29.4   |
| 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°    | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 | 3023.3 |
| 2.5°  | 2758.7 | 2834.3 | 2888.9 | 2926.7 | 2981.3 | 3086.3 | 3128.3 | 3203.8 | 3224.8 | 3237.4 |
| 5°    | 2372.4 | 2452.2 | 2569.8 | 2653.8 | 2750.3 | 2947.7 | 3098.9 | 3212.2 | 3262.6 | 3308.8 |
| 7.5°  | 1860.2 | 1965.1 | 2086.9 | 2196.1 | 2355.6 | 2599.2 | 2796.5 | 3031.7 | 3119.9 | 3166.0 |
| 10°   | 1452.9 | 1549.4 | 1683.8 | 1818.2 | 2040.7 | 2246.5 | 2527.8 | 2741.9 | 2863.7 | 2897.3 |
| 12.5° | 1226.1 | 1339.5 | 1499.0 | 1662.8 | 1801.4 | 2036.5 | 2322.0 | 2632.8 | 2746.1 | 2767.1 |
| 15°   | 1041.4 | 1196.7 | 1360.5 | 1528.4 | 1688.0 | 1893.7 | 2200.3 | 2578.2 | 2746.1 | 2767.1 |
| 17.5° | 860.8  | 999.4  | 1192.5 | 1373.1 | 1557.8 | 1839.2 | 2221.3 | 2624.4 | 2792.3 | 2855.3 |
| 20°   | 684.4  | 818.8  | 970.0  | 1196.7 | 1448.7 | 1746.8 | 2267.5 | 2779.7 | 3002.3 | 3069.5 |
| 22.5° | 566.9  | 625.7  | 772.6  | 991.0  | 1289.1 | 1683.8 | 2313.6 | 3023.3 | 3258.4 | 3283.6 |
| 25°   | 495.5  | 537.5  | 629.9  | 835.6  | 1163.1 | 1641.8 | 2422.8 | 3304.6 | 3606.9 | 3606.9 |
| 27.5° | 461.9  | 478.7  | 541.7  | 726.4  | 1074.9 | 1604.0 | 2532.0 | 3615.3 | 3896.7 | 3955.5 |
| 30°   | 453.5  | 495.5  | 529.1  | 646.6  | 978.4  | 1499.0 | 2632.8 | 3858.9 | 4148.6 | 4152.8 |
| 32.5° | 445.1  | 436.7  | 461.9  | 562.7  | 860.8  | 1389.9 | 2716.8 | 4106.6 | 4333.4 | 4346.0 |
| 35°   | 348.5  | 365.3  | 407.3  | 495.5  | 772.6  | 1310.1 | 2758.7 | 4241.0 | 4568.5 | 4581.1 |
| 37.5° | 327.5  | 348.5  | 382.1  | 457.7  | 713.8  | 1242.9 | 2771.3 | 4501.3 | 4816.3 | 4841.4 |
| 40°   | 319.1  | 335.9  | 361.1  | 424.1  | 667.6  | 1158.9 | 2796.5 | 4770.1 | 5181.6 | 5148.0 |
| 42.5° | 302.3  | 323.3  | 348.5  | 407.3  | 629.9  | 1095.9 | 2800.7 | 4917.0 | 5374.7 | 5374.7 |
| 45°   | 298.1  | 310.7  | 340.1  | 407.3  | 587.9  | 1041.4 | 2733.5 | 5064.0 | 5597.3 | 5530.1 |
| 47.5° | 281.3  | 306.5  | 331.7  | 394.7  | 537.5  | 986.8  | 2653.8 | 5139.6 | 5626.7 | 5605.7 |
| 50°   | 277.1  | 302.3  | 344.3  | 373.7  | 508.1  | 961.6  | 2637.0 | 5328.5 | 5685.4 | 5681.2 |
| 52.5° | 268.7  | 293.9  | 356.9  | 356.9  | 470.3  | 928.0  | 2716.8 | 5412.5 | 5698.0 | 5731.6 |
| 55°   | 256.1  | 293.9  | 331.7  | 327.5  | 436.7  | 886.0  | 2804.9 | 5630.9 | 5920.6 | 5912.2 |
| 57.5° | 247.7  | 285.5  | 314.9  | 298.1  | 398.9  | 856.6  | 2935.1 | 5840.8 | 6189.3 | 6130.5 |
| 60°   | 235.1  | 285.5  | 281.3  | 277.1  | 369.5  | 831.4  | 3044.3 | 5882.8 | 6248.1 | 6285.9 |
| 62.5° | 226.7  | 298.1  | 247.7  | 256.1  | 344.3  | 818.8  | 2998.1 | 5567.9 | 6168.3 | 6201.9 |
| 65°   | 218.3  | 256.1  | 226.7  | 235.1  | 335.9  | 793.6  | 2817.5 | 5190.0 | 5824.0 | 5971.0 |
| 67.5° | 201.6  | 210.0  | 210.0  | 218.3  | 327.5  | 734.8  | 2448.0 | 4509.7 | 5299.1 | 5378.9 |
| 70°   | 184.8  | 189.0  | 189.0  | 201.6  | 319.1  | 667.6  | 2019.7 | 3900.9 | 4597.9 | 4749.1 |
| 72.5° | 168.0  | 168.0  | 168.0  | 184.8  | 293.9  | 613.1  | 1662.8 | 2998.1 | 3821.1 | 3926.1 |
| 75°   | 147.0  | 147.0  | 147.0  | 163.8  | 264.5  | 558.5  | 1310.1 | 2229.7 | 2813.3 | 2964.5 |
| 77.5° | 130.2  | 130.2  | 126.0  | 147.0  | 230.9  | 453.5  | 944.8  | 1574.6 | 1981.9 | 2107.9 |
| 80°   | 109.2  | 105.0  | 105.0  | 117.6  | 180.6  | 327.5  | 608.9  | 1112.7 | 1381.5 | 1436.1 |
| 82.5° | 88.2   | 84.0   | 79.8   | 88.2   | 130.2  | 205.8  | 377.9  | 776.8  | 886.0  | 852.4  |
| 85°   | 84.0   | 88.2   | 71.4   | 67.2   | 92.4   | 134.4  | 239.3  | 478.7  | 398.9  | 398.9  |
| 87.5° | 33.6   | 29.4   | 29.4   | 25.2   | 46.2   | 50.4   | 105.0  | 88.2   | 67.2   | 67.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)