

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: P677309

Luminaire Tested: **CCW-SA-1F-760-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677309  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-760-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

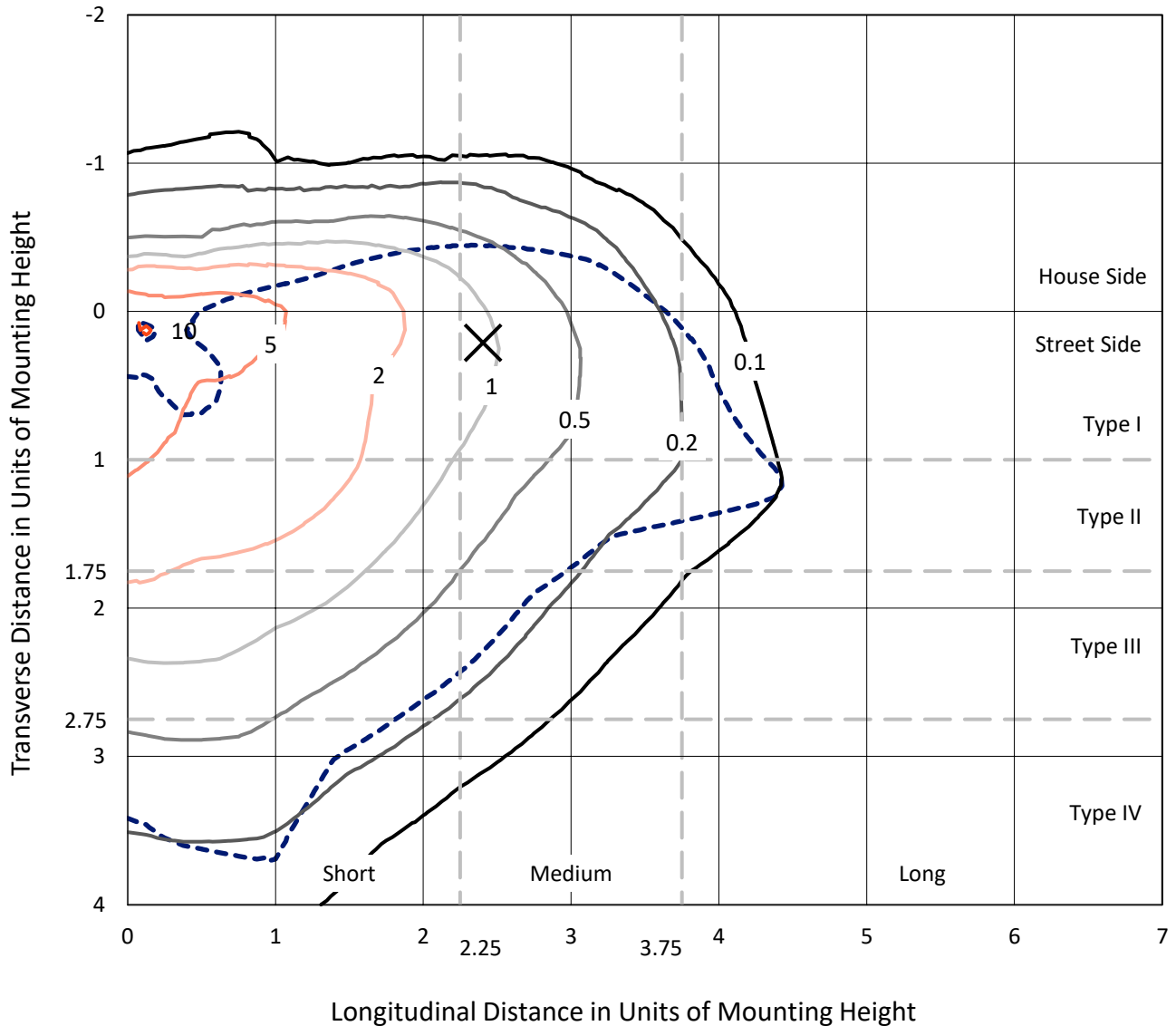
Lumens per Lamp: N/A  
Luminaire Lumens: 5564.4 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

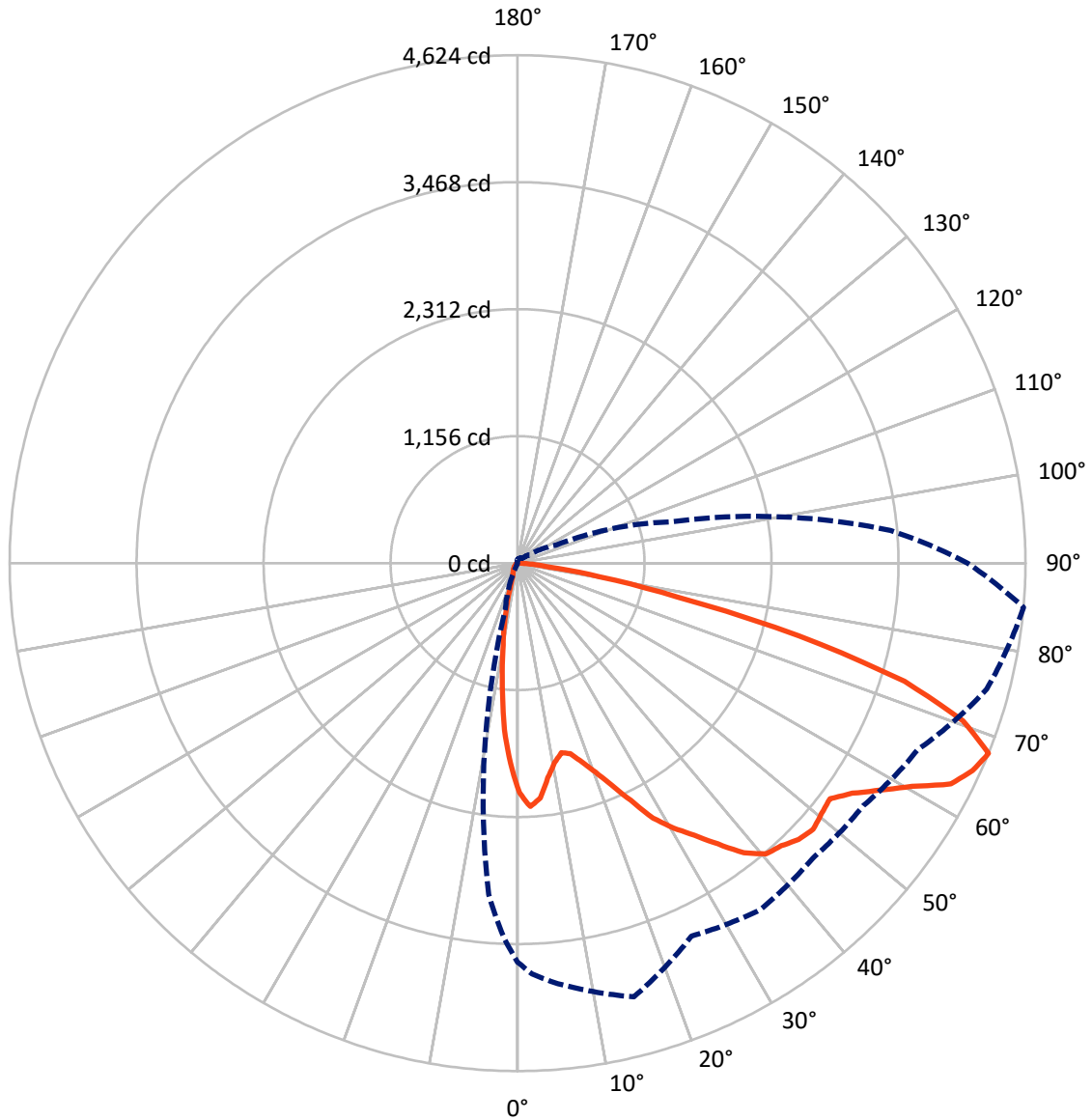
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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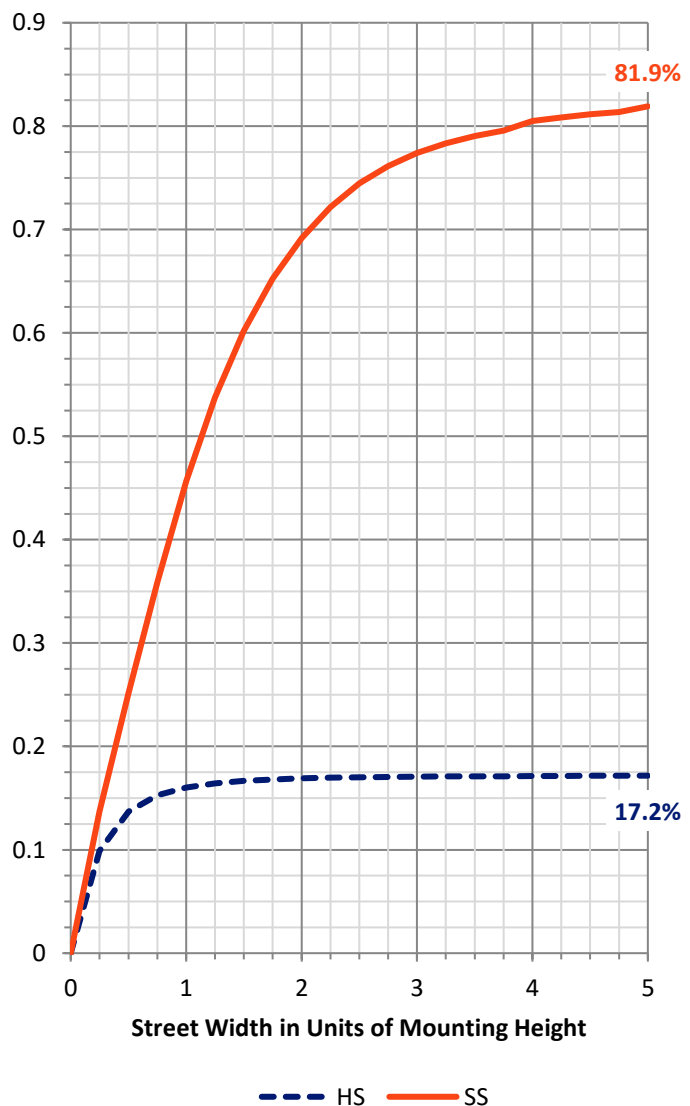
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 966.2    | 0.0    | 966.2  |
|                    | % Fixture | 17.4     | 0.0    | 17.4   |
| <b>Street Side</b> | Lumens    | 4598.3   | 0.0    | 4598.3 |
|                    | % Fixture | 82.6     | 0.0    | 82.6   |
| <b>Total</b>       | Lumens    | 5564.4   | 0.0    | 5564.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.9  | 2.9       |
| 10°-20°   | 311.7  | 5.6       |
| 20°-30°   | 431.3  | 7.8       |
| 30°-40°   | 609.6  | 11.0      |
| 40°-50°   | 829.9  | 14.9      |
| 50°-60°   | 1099.2 | 19.8      |
| 60°-70°   | 1276.2 | 22.9      |
| 70°-80°   | 722.7  | 13.0      |
| 80°-90°   | 124.9  | 2.2       |
| 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°    | 5564.4 | 100.0     |
| 0°-180°   | 5564.4 | 100.0     |

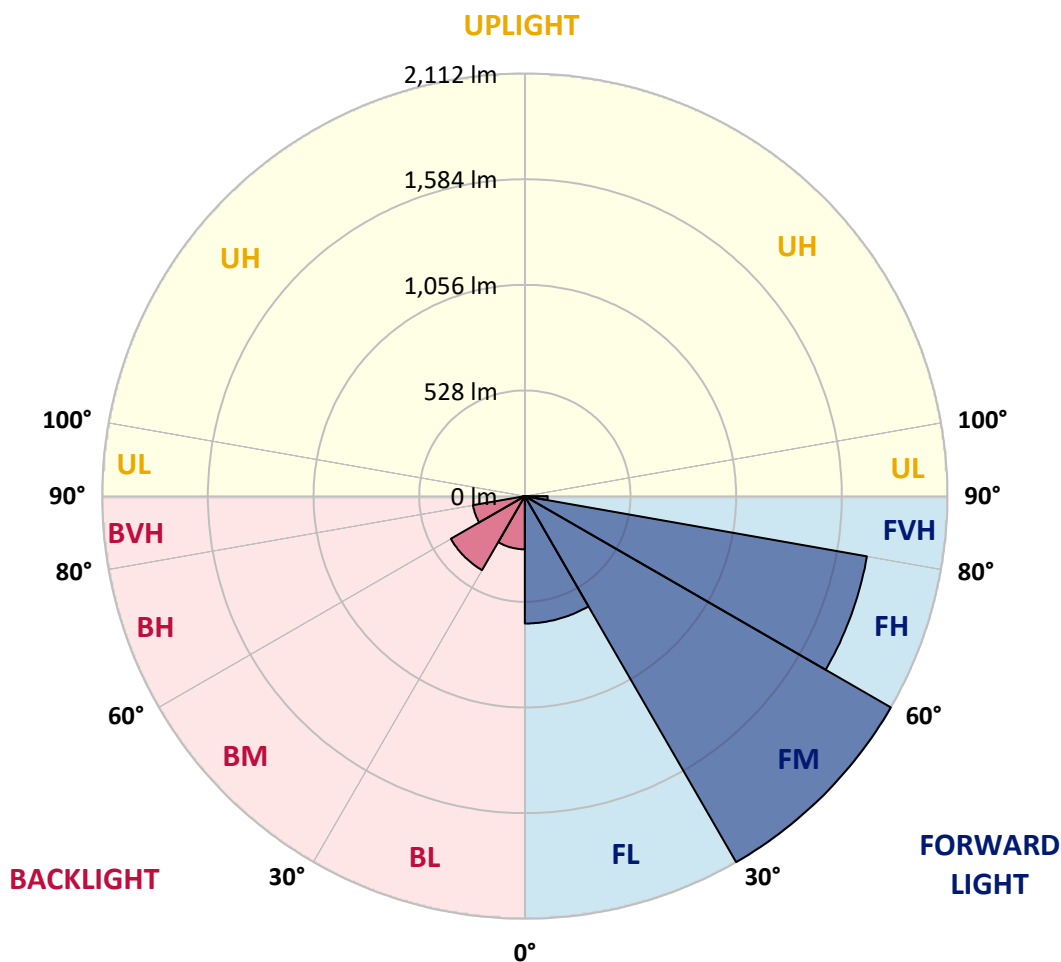


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 636.3  | 11.4      |                         |      |         |
| FM (30°-60°)   | 2111.7 | 38.0      |                         |      |         |
| FH (60°-80°)   | 1735.8 | 31.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 114.4  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 265.6  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 426.9  | 7.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 263.1  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 10.5   | 0.2       |                         |      | 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°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 |
| 2.5°  | 2173.9 | 2220.0 | 2221.5 | 2242.3 | 2263.1 | 2263.1 | 2312.1 | 2300.2 | 2257.1 | 2249.7 | 2218.5 |
| 5°    | 2190.3 | 2206.6 | 2218.5 | 2324.0 | 2413.1 | 2404.2 | 2431.0 | 2413.1 | 2329.9 | 2223.0 | 2150.1 |
| 7.5°  | 2049.1 | 2066.9 | 2114.5 | 2294.3 | 2414.6 | 2454.8 | 2505.3 | 2393.8 | 2306.2 | 2113.0 | 1973.3 |
| 10°   | 1861.9 | 1896.0 | 1983.7 | 2188.8 | 2337.4 | 2465.2 | 2465.2 | 2376.0 | 2206.6 | 2017.9 | 1847.0 |
| 12.5° | 1757.9 | 1826.2 | 1873.8 | 2081.8 | 2275.0 | 2362.6 | 2359.7 | 2312.1 | 2202.1 | 1964.4 | 1771.2 |
| 15°   | 1775.7 | 1795.0 | 1896.0 | 2058.0 | 2185.8 | 2181.3 | 2234.8 | 2220.0 | 2142.7 | 2011.9 | 1799.5 |
| 17.5° | 1857.4 | 1887.1 | 1974.8 | 2058.0 | 2118.9 | 2101.1 | 2099.6 | 2170.9 | 2175.4 | 2092.2 | 1905.0 |
| 20°   | 1991.1 | 2078.8 | 2120.4 | 2145.7 | 2071.4 | 1995.6 | 1986.7 | 2086.2 | 2163.5 | 2194.7 | 2031.3 |
| 22.5° | 2205.1 | 2263.1 | 2347.8 | 2218.5 | 2025.3 | 1930.2 | 1912.4 | 2022.3 | 2178.4 | 2316.6 | 2194.7 |
| 25°   | 2414.6 | 2459.2 | 2540.9 | 2374.5 | 2077.3 | 1916.8 | 1885.6 | 1980.7 | 2234.8 | 2486.0 | 2392.3 |
| 27.5° | 2636.0 | 2674.7 | 2683.6 | 2488.9 | 2105.6 | 1890.1 | 1853.0 | 1980.7 | 2282.4 | 2575.1 | 2628.6 |
| 30°   | 2771.3 | 2817.3 | 2826.2 | 2590.0 | 2151.6 | 1912.4 | 1894.6 | 1989.7 | 2315.1 | 2650.9 | 2798.0 |
| 32.5° | 2922.8 | 2934.7 | 2927.3 | 2607.8 | 2202.1 | 1977.8 | 1903.5 | 2049.1 | 2352.2 | 2741.5 | 2952.5 |
| 35°   | 3104.1 | 3124.9 | 3049.1 | 2689.5 | 2315.1 | 2019.4 | 1992.6 | 2121.9 | 2416.1 | 2783.1 | 3139.8 |
| 37.5° | 3242.3 | 3307.7 | 3136.8 | 2720.7 | 2337.4 | 2107.0 | 2111.5 | 2273.5 | 2460.7 | 2833.7 | 3346.3 |
| 40°   | 3502.3 | 3392.4 | 3285.4 | 2827.7 | 2422.1 | 2255.6 | 2231.9 | 2429.5 | 2610.8 | 2866.4 | 3481.5 |
| 42.5° | 3645.0 | 3587.0 | 3343.3 | 2838.1 | 2552.8 | 2460.7 | 2466.6 | 2606.3 | 2689.5 | 2958.5 | 3518.7 |
| 45°   | 3680.6 | 3619.7 | 3422.1 | 2845.6 | 2682.1 | 2702.9 | 2805.4 | 2832.2 | 2805.4 | 3019.4 | 3588.5 |
| 47.5° | 3771.3 | 3639.0 | 3413.2 | 2945.1 | 2891.6 | 2971.9 | 3102.6 | 3160.6 | 2962.9 | 2997.1 | 3621.2 |
| 50°   | 3753.5 | 3677.7 | 3393.9 | 2986.7 | 3147.2 | 3359.7 | 3447.4 | 3423.6 | 3138.3 | 2951.1 | 3585.5 |
| 52.5° | 3679.2 | 3597.4 | 3453.3 | 3099.6 | 3386.4 | 3643.5 | 3765.3 | 3705.9 | 3294.3 | 3055.1 | 3561.8 |
| 55°   | 3787.6 | 3725.2 | 3530.6 | 3252.7 | 3566.2 | 3893.1 | 3979.3 | 3934.7 | 3486.0 | 3151.7 | 3697.0 |
| 57.5° | 3905.0 | 3891.6 | 3740.1 | 3432.5 | 3778.7 | 4150.2 | 4150.2 | 4095.2 | 3652.4 | 3291.3 | 3897.6 |
| 60°   | 4074.4 | 4104.1 | 3894.6 | 3551.4 | 3851.5 | 4135.3 | 4350.8 | 4286.9 | 3820.3 | 3536.5 | 4124.9 |
| 62.5° | 4019.4 | 4114.5 | 4093.7 | 3807.0 | 3934.7 | 4208.2 | 4325.5 | 4373.1 | 4028.4 | 3835.2 | 4428.1 |
| 65°   | 3842.6 | 3943.7 | 4092.2 | 3974.9 | 3872.3 | 4031.3 | 4090.8 | 4234.9 | 4132.4 | 4116.0 | 4552.9 |
| 67.5° | 3631.6 | 3741.6 | 3833.7 | 4087.8 | 3746.0 | 3851.5 | 3799.5 | 3845.6 | 4019.4 | 4423.6 | 4624.2 |
| 70°   | 3171.0 | 3276.5 | 3422.1 | 3836.7 | 3411.7 | 3316.6 | 3303.2 | 3280.9 | 3551.4 | 4313.7 | 4300.3 |
| 72.5° | 2607.8 | 2656.8 | 2897.6 | 3119.0 | 2524.6 | 2506.8 | 2527.6 | 2502.3 | 2815.8 | 3905.0 | 3683.6 |
| 75°   | 1952.5 | 2001.5 | 2138.3 | 2395.3 | 1719.2 | 1616.7 | 1735.6 | 1853.0 | 2150.1 | 3031.3 | 2646.4 |
| 77.5° | 1468.1 | 1530.5 | 1616.7 | 1792.0 | 1261.6 | 1101.1 | 1117.4 | 1228.9 | 1554.3 | 2428.0 | 1483.0 |
| 80°   | 952.5  | 945.1  | 1111.5 | 1233.3 | 949.5  | 979.2  | 937.6  | 1019.3 | 1126.3 | 1298.7 | 757.8  |
| 82.5° | 549.8  | 557.2  | 627.1  | 707.3  | 661.2  | 756.3  | 545.3  | 910.9  | 803.9  | 529.0  | 282.3  |
| 85°   | 309.1  | 322.4  | 386.3  | 490.4  | 414.6  | 277.9  | 227.3  | 451.7  | 505.2  | 216.9  | 136.7  |
| 87.5° | 31.2   | 26.7   | 52.0   | 185.7  | 112.9  | 46.1   | 68.4   | 108.5  | 121.8  | 81.7   | 40.1   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 |
| 2.5°  | 2173.9 | 2173.9 | 2136.8 | 2074.4 | 2049.1 | 2004.5 | 1943.6 | 1962.9 | 1942.1 | 1866.3 | 1847.0 |
| 5°    | 2084.8 | 2013.4 | 1936.2 | 1841.1 | 1786.1 | 1673.2 | 1637.5 | 1573.6 | 1584.0 | 1520.1 | 1523.1 |
| 7.5°  | 1899.0 | 1842.6 | 1711.8 | 1587.0 | 1478.5 | 1380.4 | 1242.2 | 1190.2 | 1139.7 | 1114.4 | 1144.2 |
| 10°   | 1790.5 | 1685.0 | 1506.7 | 1343.3 | 1199.1 | 1111.5 | 1019.3 | 948.0  | 882.6  | 833.6  | 823.2  |
| 12.5° | 1711.8 | 1618.2 | 1402.7 | 1203.6 | 1090.7 | 1019.3 | 934.6  | 836.6  | 772.7  | 688.0  | 662.7  |
| 15°   | 1688.0 | 1573.6 | 1346.3 | 1148.6 | 1038.7 | 921.3  | 824.7  | 728.1  | 644.9  | 555.7  | 524.5  |
| 17.5° | 1769.7 | 1637.5 | 1344.8 | 1104.0 | 949.5  | 823.2  | 689.5  | 581.0  | 496.3  | 414.6  | 395.3  |
| 20°   | 1907.9 | 1705.8 | 1387.9 | 1077.3 | 864.8  | 695.4  | 543.9  | 435.4  | 340.3  | 286.8  | 273.4  |
| 22.5° | 2065.4 | 1821.7 | 1392.3 | 1006.0 | 780.1  | 567.6  | 396.7  | 286.8  | 233.3  | 208.0  | 200.6  |
| 25°   | 2258.6 | 2007.5 | 1445.8 | 948.0  | 680.6  | 430.9  | 282.3  | 219.9  | 188.7  | 173.9  | 170.9  |
| 27.5° | 2417.6 | 2136.8 | 1503.8 | 887.1  | 582.5  | 319.5  | 221.4  | 179.8  | 163.5  | 148.6  | 147.1  |
| 30°   | 2582.5 | 2285.4 | 1520.1 | 850.0  | 497.8  | 263.0  | 190.2  | 159.0  | 141.2  | 133.7  | 132.2  |
| 32.5° | 2726.7 | 2447.3 | 1572.1 | 789.0  | 417.5  | 231.8  | 172.4  | 142.6  | 130.8  | 118.9  | 117.4  |
| 35°   | 2912.4 | 2540.9 | 1597.4 | 756.3  | 387.8  | 209.5  | 157.5  | 130.8  | 112.9  | 105.5  | 102.5  |
| 37.5° | 3111.5 | 2631.6 | 1613.7 | 731.1  | 362.6  | 196.1  | 148.6  | 123.3  | 107.0  | 96.6   | 93.6   |
| 40°   | 3297.3 | 2759.4 | 1589.9 | 699.9  | 343.2  | 179.8  | 142.6  | 114.4  | 99.6   | 89.2   | 84.7   |
| 42.5° | 3439.9 | 2884.2 | 1582.5 | 670.2  | 322.4  | 173.9  | 135.2  | 110.0  | 93.6   | 81.7   | 80.2   |
| 45°   | 3520.2 | 2968.9 | 1530.5 | 646.4  | 306.1  | 176.8  | 132.2  | 104.0  | 89.2   | 78.8   | 72.8   |
| 47.5° | 3500.8 | 3034.3 | 1543.9 | 638.9  | 283.8  | 164.9  | 130.8  | 99.6   | 81.7   | 72.8   | 68.4   |
| 50°   | 3607.8 | 3166.5 | 1521.6 | 615.2  | 267.5  | 148.6  | 142.6  | 99.6   | 80.2   | 69.8   | 65.4   |
| 52.5° | 3625.7 | 3286.9 | 1569.1 | 572.1  | 242.2  | 136.7  | 141.2  | 98.1   | 77.3   | 66.9   | 60.9   |
| 55°   | 3774.3 | 3426.6 | 1661.3 | 548.3  | 221.4  | 118.9  | 129.3  | 95.1   | 69.8   | 60.9   | 58.0   |
| 57.5° | 3976.3 | 3716.3 | 1720.7 | 526.0  | 193.2  | 104.0  | 108.5  | 93.6   | 63.9   | 56.5   | 52.0   |
| 60°   | 4171.0 | 3832.2 | 1725.2 | 485.9  | 166.4  | 93.6   | 84.7   | 93.6   | 59.4   | 50.5   | 46.1   |
| 62.5° | 4316.6 | 3832.2 | 1695.4 | 451.7  | 145.6  | 83.2   | 74.3   | 89.2   | 53.5   | 44.6   | 41.6   |
| 65°   | 4237.9 | 3729.7 | 1618.2 | 423.5  | 132.2  | 72.8   | 63.9   | 68.4   | 47.5   | 38.6   | 35.7   |
| 67.5° | 4096.7 | 3410.2 | 1447.3 | 389.3  | 130.8  | 63.9   | 55.0   | 50.5   | 41.6   | 34.2   | 31.2   |
| 70°   | 3870.8 | 2979.3 | 1205.1 | 350.7  | 127.8  | 58.0   | 49.0   | 43.1   | 37.1   | 29.7   | 26.7   |
| 72.5° | 3119.0 | 2460.7 | 989.6  | 328.4  | 124.8  | 50.5   | 41.6   | 37.1   | 31.2   | 25.3   | 22.3   |
| 75°   | 2160.5 | 1572.1 | 762.3  | 280.8  | 121.8  | 46.1   | 38.6   | 32.7   | 26.7   | 20.8   | 19.3   |
| 77.5° | 1295.7 | 1050.6 | 491.8  | 211.0  | 80.2   | 37.1   | 32.7   | 25.3   | 22.3   | 17.8   | 16.3   |
| 80°   | 606.3  | 496.3  | 199.1  | 81.7   | 38.6   | 26.7   | 22.3   | 19.3   | 17.8   | 14.9   | 13.4   |
| 82.5° | 237.7  | 209.5  | 96.6   | 47.5   | 31.2   | 20.8   | 17.8   | 16.3   | 14.9   | 11.9   | 10.4   |
| 85°   | 127.8  | 112.9  | 46.1   | 32.7   | 22.3   | 14.9   | 14.9   | 13.4   | 11.9   | 10.4   | 8.9    |
| 87.5° | 28.2   | 20.8   | 19.3   | 19.3   | 16.3   | 11.9   | 11.9   | 10.4   | 8.9    | 7.4    | 5.9    |
| 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°    | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 | 2092.2 |
| 2.5°  | 1836.6 | 1858.9 | 1823.2 | 1845.5 | 1814.3 | 1838.1 | 1841.1 | 1818.8 | 1824.7 | 1854.4 | 1867.8 |
| 5°    | 1564.7 | 1549.8 | 1517.1 | 1506.7 | 1508.2 | 1488.9 | 1496.3 | 1506.7 | 1523.1 | 1532.0 | 1558.7 |
| 7.5°  | 1127.8 | 1162.0 | 1160.5 | 1185.8 | 1187.3 | 1184.3 | 1163.5 | 1118.9 | 1133.8 | 1121.9 | 1136.7 |
| 10°   | 806.9  | 821.7  | 850.0  | 866.3  | 896.0  | 879.7  | 832.1  | 814.3  | 805.4  | 803.9  | 818.7  |
| 12.5° | 644.9  | 609.2  | 606.3  | 612.2  | 627.1  | 607.7  | 584.0  | 563.2  | 573.6  | 594.4  | 610.7  |
| 15°   | 499.3  | 469.6  | 430.9  | 425.0  | 427.9  | 419.0  | 393.8  | 367.0  | 374.5  | 395.3  | 407.1  |
| 17.5° | 383.4  | 349.2  | 322.4  | 304.6  | 298.7  | 267.5  | 230.3  | 208.0  | 202.1  | 200.6  | 211.0  |
| 20°   | 258.6  | 252.6  | 248.2  | 225.9  | 225.9  | 181.3  | 150.1  | 133.7  | 133.7  | 136.7  | 138.2  |
| 22.5° | 193.2  | 185.7  | 187.2  | 182.8  | 170.9  | 135.2  | 118.9  | 114.4  | 114.4  | 117.4  | 117.4  |
| 25°   | 167.9  | 157.5  | 154.5  | 153.1  | 141.2  | 115.9  | 104.0  | 99.6   | 99.6   | 102.5  | 102.5  |
| 27.5° | 142.6  | 139.7  | 135.2  | 129.3  | 118.9  | 99.6   | 92.1   | 87.7   | 89.2   | 90.6   | 89.2   |
| 30°   | 130.8  | 123.3  | 117.4  | 117.4  | 105.5  | 89.2   | 83.2   | 80.2   | 77.3   | 80.2   | 81.7   |
| 32.5° | 115.9  | 111.4  | 108.5  | 104.0  | 90.6   | 78.8   | 72.8   | 69.8   | 68.4   | 68.4   | 69.8   |
| 35°   | 99.6   | 99.6   | 96.6   | 90.6   | 78.8   | 71.3   | 63.9   | 60.9   | 59.4   | 60.9   | 60.9   |
| 37.5° | 89.2   | 84.7   | 86.2   | 80.2   | 69.8   | 62.4   | 55.0   | 52.0   | 52.0   | 50.5   | 52.0   |
| 40°   | 83.2   | 75.8   | 71.3   | 68.4   | 62.4   | 53.5   | 47.5   | 44.6   | 43.1   | 43.1   | 43.1   |
| 42.5° | 74.3   | 68.4   | 59.4   | 58.0   | 56.5   | 46.1   | 38.6   | 37.1   | 35.7   | 34.2   | 34.2   |
| 45°   | 69.8   | 60.9   | 53.5   | 46.1   | 46.1   | 38.6   | 32.7   | 29.7   | 28.2   | 26.7   | 28.2   |
| 47.5° | 63.9   | 55.0   | 46.1   | 38.6   | 37.1   | 31.2   | 25.3   | 22.3   | 20.8   | 20.8   | 20.8   |
| 50°   | 60.9   | 49.0   | 40.1   | 32.7   | 28.2   | 25.3   | 19.3   | 16.3   | 14.9   | 14.9   | 14.9   |
| 52.5° | 56.5   | 46.1   | 35.7   | 28.2   | 22.3   | 19.3   | 14.9   | 11.9   | 10.4   | 10.4   | 10.4   |
| 55°   | 50.5   | 41.6   | 31.2   | 23.8   | 19.3   | 14.9   | 10.4   | 7.4    | 5.9    | 5.9    | 5.9    |
| 57.5° | 47.5   | 37.1   | 26.7   | 20.8   | 14.9   | 10.4   | 5.9    | 4.5    | 4.5    | 3.0    | 4.5    |
| 60°   | 43.1   | 32.7   | 22.3   | 16.3   | 11.9   | 7.4    | 4.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 62.5° | 37.1   | 28.2   | 19.3   | 13.4   | 8.9    | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 31.2   | 22.3   | 14.9   | 10.4   | 5.9    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 26.7   | 19.3   | 11.9   | 7.4    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 23.8   | 16.3   | 8.9    | 5.9    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 19.3   | 13.4   | 7.4    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 16.3   | 10.4   | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 13.4   | 7.4    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 10.4   | 5.9    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 8.9    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 5.9    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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| 17.5° | 261.5  | 358.1  | 533.4  | 723.6  | 922.8  | 1118.9 | 1389.3 | 1682.1 | 1800.9 | 1857.4 |
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| 27.5° | 95.1   | 105.5  | 121.8  | 150.1  | 338.8  | 836.6  | 1585.5 | 2387.9 | 2536.5 | 2636.0 |
| 30°   | 83.2   | 92.1   | 108.5  | 127.8  | 234.8  | 714.7  | 1646.4 | 2530.5 | 2740.1 | 2771.3 |
| 32.5° | 74.3   | 81.7   | 93.6   | 110.0  | 173.9  | 542.4  | 1695.4 | 2677.6 | 2854.5 | 2922.8 |
| 35°   | 63.9   | 72.8   | 80.2   | 93.6   | 132.2  | 408.6  | 1665.7 | 2792.1 | 3022.4 | 3104.1 |
| 37.5° | 56.5   | 62.4   | 69.8   | 78.8   | 111.4  | 319.5  | 1604.8 | 2928.8 | 3166.5 | 3242.3 |
| 40°   | 47.5   | 52.0   | 60.9   | 69.8   | 101.0  | 246.7  | 1535.0 | 3093.7 | 3368.6 | 3502.3 |
| 42.5° | 40.1   | 44.6   | 50.5   | 65.4   | 83.2   | 182.8  | 1393.8 | 3221.5 | 3532.1 | 3645.0 |
| 45°   | 31.2   | 37.1   | 46.1   | 65.4   | 66.9   | 135.2  | 1248.2 | 3316.6 | 3624.2 | 3680.6 |
| 47.5° | 23.8   | 29.7   | 44.6   | 56.5   | 53.5   | 93.6   | 1075.8 | 3425.1 | 3719.3 | 3771.3 |
| 50°   | 17.8   | 23.8   | 50.5   | 49.0   | 44.6   | 71.3   | 967.3  | 3500.8 | 3725.2 | 3753.5 |
| 52.5° | 11.9   | 17.8   | 41.6   | 37.1   | 37.1   | 62.4   | 937.6  | 3497.9 | 3740.1 | 3679.2 |
| 55°   | 8.9    | 13.4   | 23.8   | 26.7   | 32.7   | 55.0   | 910.9  | 3609.3 | 3744.5 | 3787.6 |
| 57.5° | 5.9    | 10.4   | 16.3   | 20.8   | 28.2   | 47.5   | 855.9  | 3743.1 | 3882.7 | 3905.0 |
| 60°   | 3.0    | 7.4    | 11.9   | 16.3   | 23.8   | 41.6   | 778.6  | 3841.1 | 4050.6 | 4074.4 |
| 62.5° | 1.5    | 4.5    | 8.9    | 13.4   | 19.3   | 32.7   | 698.4  | 3685.1 | 3977.8 | 4019.4 |
| 65°   | 0.0    | 3.0    | 5.9    | 8.9    | 11.9   | 23.8   | 567.6  | 3327.0 | 3689.6 | 3842.6 |
| 67.5° | 0.0    | 0.0    | 3.0    | 5.9    | 7.4    | 17.8   | 427.9  | 3026.8 | 3423.6 | 3631.6 |
| 70°   | 0.0    | 0.0    | 1.5    | 1.5    | 4.5    | 13.4   | 273.4  | 2506.8 | 3056.6 | 3171.0 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 8.9    | 159.0  | 1861.9 | 2395.3 | 2607.8 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 7.4    | 80.2   | 1197.7 | 1667.2 | 1952.5 |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.9    | 43.1   | 772.7  | 1228.9 | 1468.1 |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 25.3   | 448.8  | 786.1  | 952.5  |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 10.4   | 219.9  | 469.6  | 549.8  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.0    | 117.4  | 234.8  | 309.1  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.5    | 16.3   | 31.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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