

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: P674090

Luminaire Tested: **CCP-SA-2C-722-U-SLL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674090  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-722-U-SLL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SLL distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

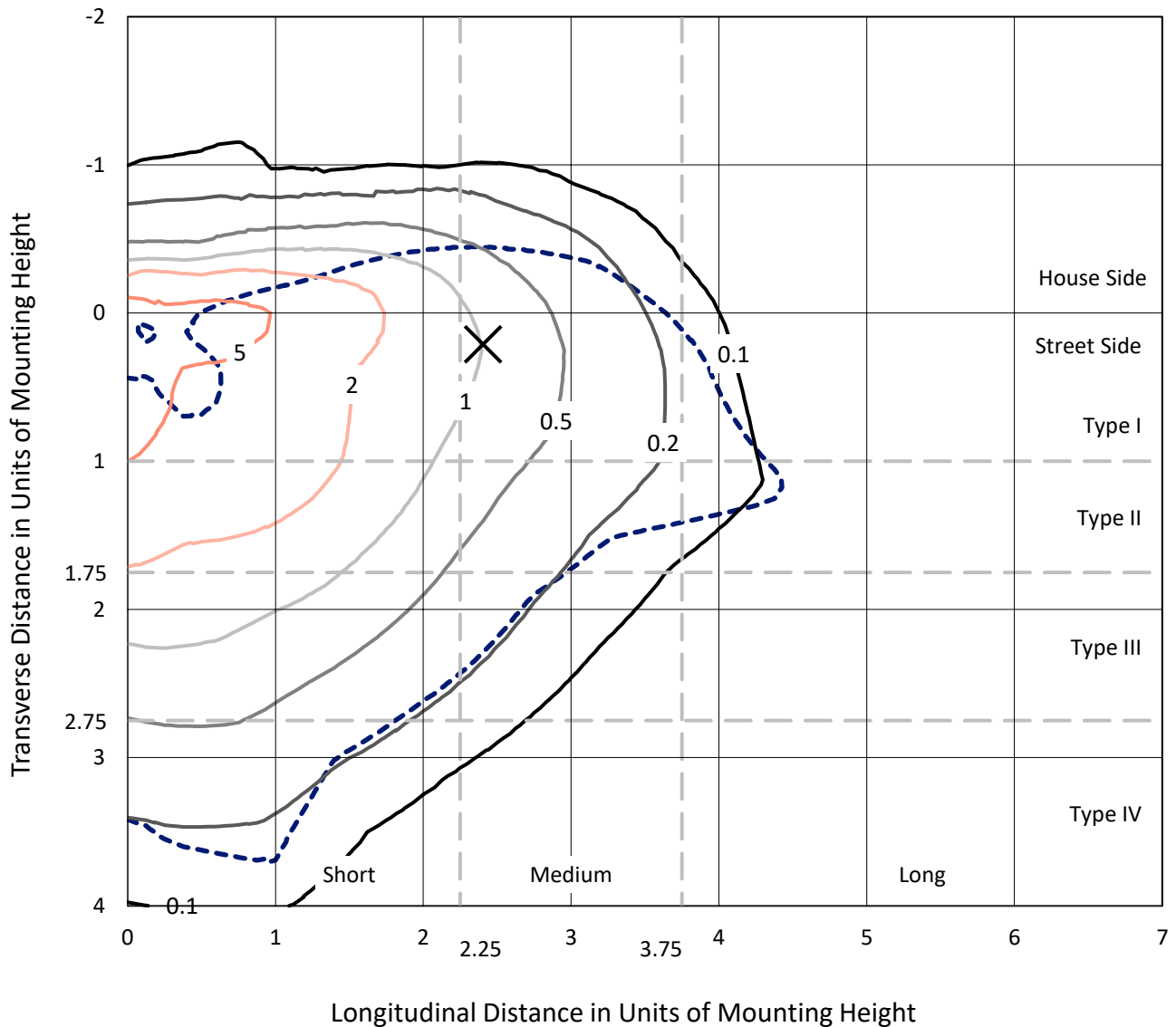
Lumens per Lamp: N/A  
Luminaire Lumens: 4832.1 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

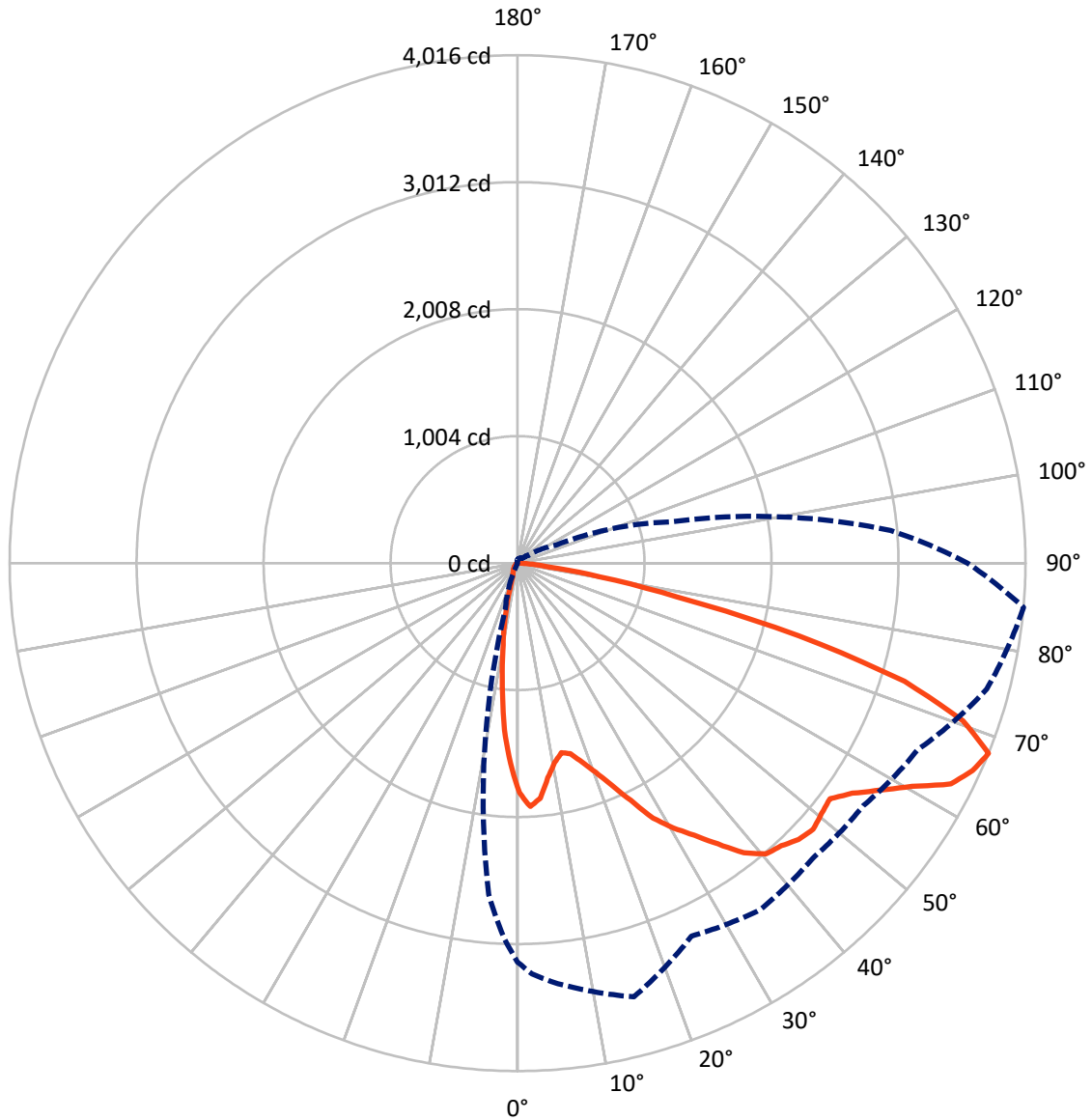
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 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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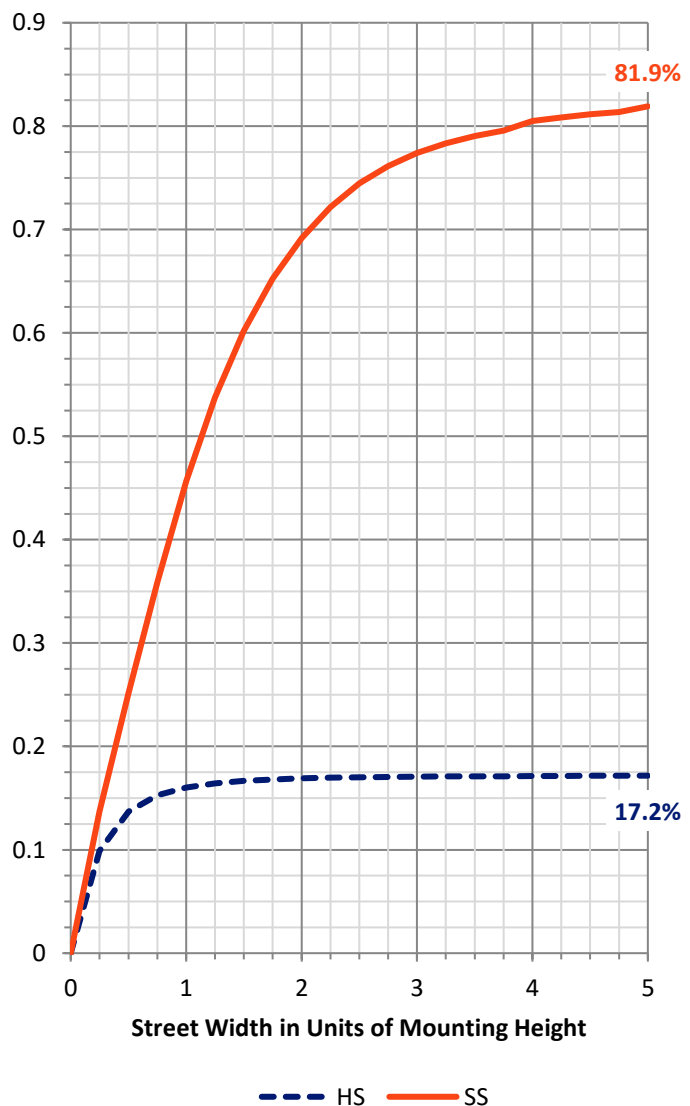
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 839.0    | 0.0    | 839.0  |
|                    | % Fixture | 17.4     | 0.0    | 17.4   |
| <b>Street Side</b> | Lumens    | 3993.1   | 0.0    | 3993.1 |
|                    | % Fixture | 82.6     | 0.0    | 82.6   |
| <b>Total</b>       | Lumens    | 4832.1   | 0.0    | 4832.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.0  | 2.9       |
| 10°-20°   | 270.7  | 5.6       |
| 20°-30°   | 374.5  | 7.8       |
| 30°-40°   | 529.3  | 11.0      |
| 40°-50°   | 720.7  | 14.9      |
| 50°-60°   | 954.5  | 19.8      |
| 60°-70°   | 1108.3 | 22.9      |
| 70°-80°   | 627.6  | 13.0      |
| 80°-90°   | 108.4  | 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°    | 4832.1 | 100.0     |
| 0°-180°   | 4832.1 | 100.0     |



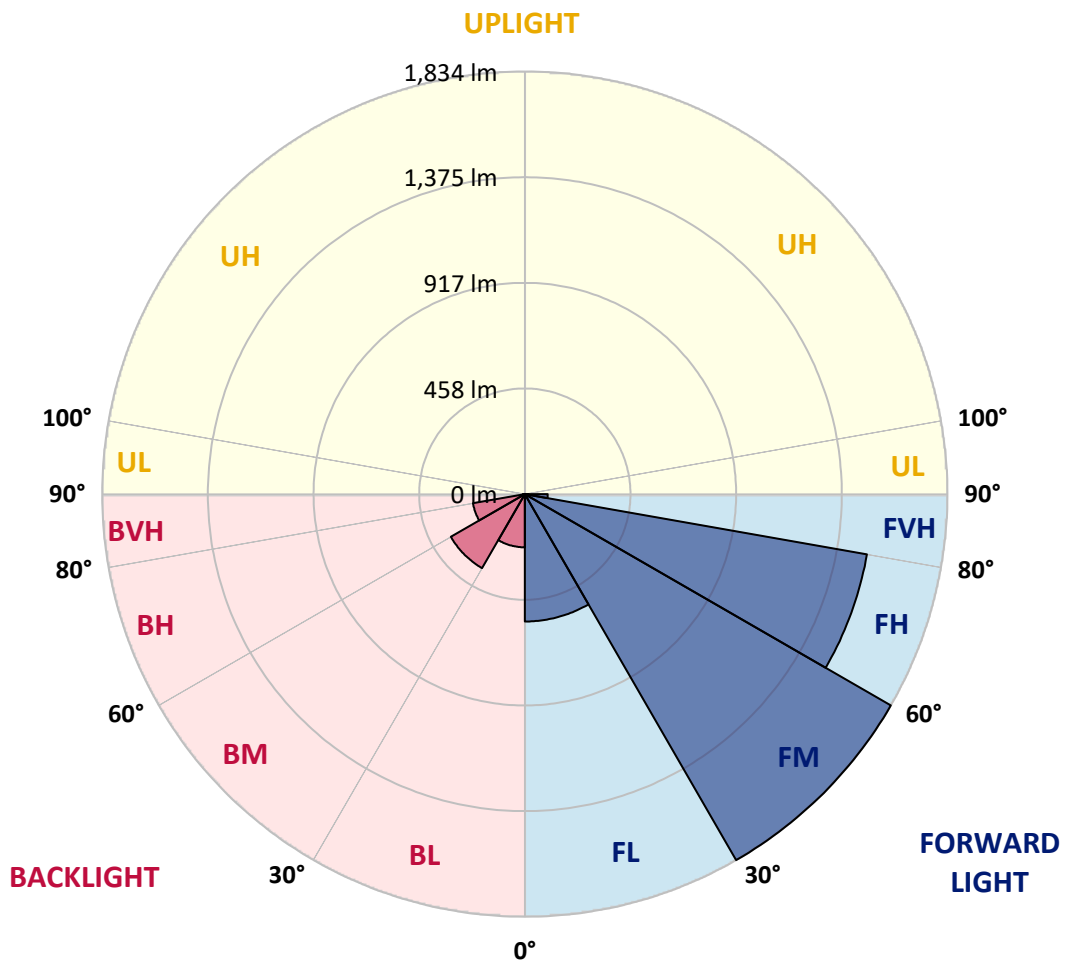
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 552.6  | 11.4      |                         |      |         |
| FM (30°-60°)   | 1833.8 | 38.0      |                         |      |         |
| FH (60°-80°)   | 1507.4 | 31.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 99.3   | 2.1       |                         |      | G1/100  |
| BL (0°-30°)    | 230.7  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 370.7  | 7.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 228.5  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 9.1    | 0.2       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 2.5°  | 1887.8 | 1927.8 | 1929.1 | 1947.2 | 1965.2 | 1965.2 | 2007.8 | 1997.5 | 1960.1 | 1953.6 | 1926.5 |
| 5°    | 1902.0 | 1916.2 | 1926.5 | 2018.1 | 2095.5 | 2087.8 | 2111.0 | 2095.5 | 2023.3 | 1930.4 | 1867.2 |
| 7.5°  | 1779.4 | 1794.9 | 1836.2 | 1992.3 | 2096.8 | 2131.7 | 2175.6 | 2078.8 | 2002.6 | 1834.9 | 1713.6 |
| 10°   | 1616.8 | 1646.5 | 1722.6 | 1900.7 | 2029.7 | 2140.7 | 2140.7 | 2063.3 | 1916.2 | 1752.3 | 1603.9 |
| 12.5° | 1526.5 | 1585.9 | 1627.1 | 1807.8 | 1975.5 | 2051.7 | 2049.1 | 2007.8 | 1912.3 | 1705.9 | 1538.1 |
| 15°   | 1542.0 | 1558.8 | 1646.5 | 1787.2 | 1898.1 | 1894.3 | 1940.7 | 1927.8 | 1860.7 | 1747.2 | 1562.6 |
| 17.5° | 1613.0 | 1638.8 | 1714.9 | 1787.2 | 1840.1 | 1824.6 | 1823.3 | 1885.2 | 1889.1 | 1816.8 | 1654.2 |
| 20°   | 1729.1 | 1805.2 | 1841.3 | 1863.3 | 1798.8 | 1733.0 | 1725.2 | 1811.7 | 1878.8 | 1905.9 | 1763.9 |
| 22.5° | 1914.9 | 1965.2 | 2038.8 | 1926.5 | 1758.8 | 1676.2 | 1660.7 | 1756.2 | 1891.7 | 2011.7 | 1905.9 |
| 25°   | 2096.8 | 2135.5 | 2206.5 | 2062.0 | 1803.9 | 1664.6 | 1637.5 | 1720.1 | 1940.7 | 2158.8 | 2077.5 |
| 27.5° | 2289.1 | 2322.7 | 2330.4 | 2161.4 | 1828.4 | 1641.3 | 1609.1 | 1720.1 | 1982.0 | 2236.2 | 2282.7 |
| 30°   | 2406.5 | 2446.5 | 2454.3 | 2249.1 | 1868.4 | 1660.7 | 1645.2 | 1727.8 | 2010.4 | 2302.0 | 2429.8 |
| 32.5° | 2538.1 | 2548.5 | 2542.0 | 2264.6 | 1912.3 | 1717.5 | 1653.0 | 1779.4 | 2042.6 | 2380.7 | 2563.9 |
| 35°   | 2695.6 | 2713.6 | 2647.8 | 2335.6 | 2010.4 | 1753.6 | 1730.4 | 1842.6 | 2098.1 | 2416.8 | 2726.5 |
| 37.5° | 2815.6 | 2872.3 | 2724.0 | 2362.7 | 2029.7 | 1829.7 | 1833.6 | 1974.3 | 2136.8 | 2460.7 | 2905.9 |
| 40°   | 3041.4 | 2945.9 | 2853.0 | 2455.6 | 2103.3 | 1958.8 | 1938.1 | 2109.7 | 2267.2 | 2489.1 | 3023.3 |
| 42.5° | 3165.3 | 3114.9 | 2903.3 | 2464.6 | 2216.8 | 2136.8 | 2142.0 | 2263.3 | 2335.6 | 2569.1 | 3055.6 |
| 45°   | 3196.2 | 3143.3 | 2971.7 | 2471.0 | 2329.1 | 2347.2 | 2436.2 | 2459.4 | 2436.2 | 2622.0 | 3116.2 |
| 47.5° | 3274.9 | 3160.1 | 2964.0 | 2557.5 | 2511.0 | 2580.7 | 2694.3 | 2744.6 | 2573.0 | 2602.7 | 3144.6 |
| 50°   | 3259.5 | 3193.6 | 2947.2 | 2593.6 | 2733.0 | 2917.5 | 2993.6 | 2973.0 | 2725.2 | 2562.7 | 3113.6 |
| 52.5° | 3194.9 | 3124.0 | 2998.8 | 2691.7 | 2940.7 | 3164.0 | 3269.8 | 3218.2 | 2860.7 | 2653.0 | 3093.0 |
| 55°   | 3289.1 | 3234.9 | 3065.9 | 2824.6 | 3096.9 | 3380.7 | 3455.6 | 3416.9 | 3027.2 | 2736.9 | 3210.4 |
| 57.5° | 3391.1 | 3379.5 | 3247.8 | 2980.7 | 3281.4 | 3604.0 | 3604.0 | 3556.2 | 3171.7 | 2858.2 | 3384.6 |
| 60°   | 3538.2 | 3564.0 | 3382.0 | 3084.0 | 3344.6 | 3591.1 | 3778.2 | 3722.7 | 3317.5 | 3071.1 | 3582.0 |
| 62.5° | 3490.4 | 3573.0 | 3554.9 | 3305.9 | 3416.9 | 3654.3 | 3756.2 | 3797.5 | 3498.2 | 3330.4 | 3845.3 |
| 65°   | 3336.9 | 3424.6 | 3553.7 | 3451.7 | 3362.7 | 3500.8 | 3552.4 | 3677.5 | 3588.5 | 3574.3 | 3953.7 |
| 67.5° | 3153.6 | 3249.1 | 3329.1 | 3549.8 | 3253.0 | 3344.6 | 3299.5 | 3339.5 | 3490.4 | 3841.4 | 4015.6 |
| 70°   | 2753.6 | 2845.2 | 2971.7 | 3331.7 | 2962.7 | 2880.1 | 2868.5 | 2849.1 | 3084.0 | 3745.9 | 3734.3 |
| 72.5° | 2264.6 | 2307.2 | 2516.2 | 2708.5 | 2192.3 | 2176.8 | 2194.9 | 2173.0 | 2445.2 | 3391.1 | 3198.8 |
| 75°   | 1695.5 | 1738.1 | 1856.8 | 2080.1 | 1492.9 | 1403.9 | 1507.1 | 1609.1 | 1867.2 | 2632.3 | 2298.1 |
| 77.5° | 1274.9 | 1329.1 | 1403.9 | 1556.2 | 1095.5 | 956.2  | 970.4  | 1067.1 | 1349.7 | 2108.5 | 1287.8 |
| 80°   | 827.1  | 820.7  | 965.2  | 1071.0 | 824.5  | 850.3  | 814.2  | 885.2  | 978.1  | 1127.8 | 658.1  |
| 82.5° | 477.4  | 483.9  | 544.5  | 614.2  | 574.2  | 656.8  | 473.6  | 791.0  | 698.1  | 459.4  | 245.2  |
| 85°   | 268.4  | 280.0  | 335.5  | 425.8  | 360.0  | 241.3  | 197.4  | 392.3  | 438.7  | 188.4  | 118.7  |
| 87.5° | 27.1   | 23.2   | 45.2   | 161.3  | 98.1   | 40.0   | 59.4   | 94.2   | 105.8  | 71.0   | 34.8   |
| 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°    | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 2.5°  | 1887.8 | 1887.8 | 1855.5 | 1801.3 | 1779.4 | 1740.7 | 1687.8 | 1704.6 | 1686.5 | 1620.7 | 1603.9 |
| 5°    | 1810.4 | 1748.4 | 1681.3 | 1598.8 | 1551.0 | 1452.9 | 1422.0 | 1366.5 | 1375.5 | 1320.0 | 1322.6 |
| 7.5°  | 1649.1 | 1600.0 | 1486.5 | 1378.1 | 1283.9 | 1198.7 | 1078.7 | 1033.6 | 989.7  | 967.8  | 993.6  |
| 10°   | 1554.9 | 1463.3 | 1308.4 | 1166.5 | 1041.3 | 965.2  | 885.2  | 823.3  | 766.5  | 723.9  | 714.9  |
| 12.5° | 1486.5 | 1405.2 | 1218.1 | 1045.2 | 947.1  | 885.2  | 811.6  | 726.5  | 671.0  | 597.4  | 575.5  |
| 15°   | 1465.9 | 1366.5 | 1169.1 | 997.4  | 902.0  | 800.0  | 716.2  | 632.3  | 560.0  | 482.6  | 455.5  |
| 17.5° | 1536.8 | 1422.0 | 1167.8 | 958.7  | 824.5  | 714.9  | 598.7  | 504.5  | 431.0  | 360.0  | 343.2  |
| 20°   | 1656.8 | 1481.3 | 1205.2 | 935.5  | 751.0  | 603.9  | 472.3  | 378.1  | 295.5  | 249.0  | 237.4  |
| 22.5° | 1793.6 | 1582.0 | 1209.1 | 873.6  | 677.4  | 492.9  | 344.5  | 249.0  | 202.6  | 180.7  | 174.2  |
| 25°   | 1961.4 | 1743.3 | 1255.5 | 823.3  | 591.0  | 374.2  | 245.2  | 191.0  | 163.9  | 151.0  | 148.4  |
| 27.5° | 2099.4 | 1855.5 | 1305.8 | 770.3  | 505.8  | 277.4  | 192.3  | 156.1  | 141.9  | 129.0  | 127.7  |
| 30°   | 2242.6 | 1984.6 | 1320.0 | 738.1  | 432.3  | 228.4  | 165.2  | 138.1  | 122.6  | 116.1  | 114.8  |
| 32.5° | 2367.8 | 2125.2 | 1365.2 | 685.2  | 362.6  | 201.3  | 149.7  | 123.9  | 113.6  | 103.2  | 101.9  |
| 35°   | 2529.1 | 2206.5 | 1387.1 | 656.8  | 336.8  | 181.9  | 136.8  | 113.6  | 98.1   | 91.6   | 89.0   |
| 37.5° | 2702.0 | 2285.2 | 1401.3 | 634.9  | 314.8  | 170.3  | 129.0  | 107.1  | 92.9   | 83.9   | 81.3   |
| 40°   | 2863.3 | 2396.2 | 1380.7 | 607.8  | 298.1  | 156.1  | 123.9  | 99.4   | 86.5   | 77.4   | 73.6   |
| 42.5° | 2987.2 | 2504.6 | 1374.2 | 582.0  | 280.0  | 151.0  | 117.4  | 95.5   | 81.3   | 71.0   | 69.7   |
| 45°   | 3056.9 | 2578.1 | 1329.1 | 561.3  | 265.8  | 153.6  | 114.8  | 90.3   | 77.4   | 68.4   | 63.2   |
| 47.5° | 3040.1 | 2634.9 | 1340.7 | 554.9  | 246.5  | 143.2  | 113.6  | 86.5   | 71.0   | 63.2   | 59.4   |
| 50°   | 3133.0 | 2749.8 | 1321.3 | 534.2  | 232.3  | 129.0  | 123.9  | 86.5   | 69.7   | 60.6   | 56.8   |
| 52.5° | 3148.5 | 2854.3 | 1362.6 | 496.8  | 210.3  | 118.7  | 122.6  | 85.2   | 67.1   | 58.1   | 52.9   |
| 55°   | 3277.5 | 2975.6 | 1442.6 | 476.1  | 192.3  | 103.2  | 112.3  | 82.6   | 60.6   | 52.9   | 50.3   |
| 57.5° | 3453.0 | 3227.2 | 1494.2 | 456.8  | 167.7  | 90.3   | 94.2   | 81.3   | 55.5   | 49.0   | 45.2   |
| 60°   | 3622.0 | 3327.8 | 1498.1 | 421.9  | 144.5  | 81.3   | 73.6   | 81.3   | 51.6   | 43.9   | 40.0   |
| 62.5° | 3748.5 | 3327.8 | 1472.3 | 392.3  | 126.5  | 72.3   | 64.5   | 77.4   | 46.5   | 38.7   | 36.1   |
| 65°   | 3680.1 | 3238.8 | 1405.2 | 367.8  | 114.8  | 63.2   | 55.5   | 59.4   | 41.3   | 33.5   | 31.0   |
| 67.5° | 3557.5 | 2961.4 | 1256.8 | 338.1  | 113.6  | 55.5   | 47.7   | 43.9   | 36.1   | 29.7   | 27.1   |
| 70°   | 3361.4 | 2587.2 | 1046.5 | 304.5  | 111.0  | 50.3   | 42.6   | 37.4   | 32.3   | 25.8   | 23.2   |
| 72.5° | 2708.5 | 2136.8 | 859.4  | 285.2  | 108.4  | 43.9   | 36.1   | 32.3   | 27.1   | 21.9   | 19.4   |
| 75°   | 1876.2 | 1365.2 | 662.0  | 243.9  | 105.8  | 40.0   | 33.5   | 28.4   | 23.2   | 18.1   | 16.8   |
| 77.5° | 1125.2 | 912.3  | 427.1  | 183.2  | 69.7   | 32.3   | 28.4   | 21.9   | 19.4   | 15.5   | 14.2   |
| 80°   | 526.5  | 431.0  | 172.9  | 71.0   | 33.5   | 23.2   | 19.4   | 16.8   | 15.5   | 12.9   | 11.6   |
| 82.5° | 206.5  | 181.9  | 83.9   | 41.3   | 27.1   | 18.1   | 15.5   | 14.2   | 12.9   | 10.3   | 9.0    |
| 85°   | 111.0  | 98.1   | 40.0   | 28.4   | 19.4   | 12.9   | 12.9   | 11.6   | 10.3   | 9.0    | 7.7    |
| 87.5° | 24.5   | 18.1   | 16.8   | 16.8   | 14.2   | 10.3   | 10.3   | 9.0    | 7.7    | 6.5    | 5.2    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 2.5°  | 1594.9 | 1614.2 | 1583.3 | 1602.6 | 1575.5 | 1596.2 | 1598.8 | 1579.4 | 1584.6 | 1610.4 | 1622.0 |
| 5°    | 1358.8 | 1345.8 | 1317.5 | 1308.4 | 1309.7 | 1292.9 | 1299.4 | 1308.4 | 1322.6 | 1330.4 | 1353.6 |
| 7.5°  | 979.4  | 1009.1 | 1007.8 | 1029.7 | 1031.0 | 1028.4 | 1010.4 | 971.6  | 984.5  | 974.2  | 987.1  |
| 10°   | 700.7  | 713.6  | 738.1  | 752.3  | 778.1  | 763.9  | 722.6  | 707.1  | 699.4  | 698.1  | 711.0  |
| 12.5° | 560.0  | 529.0  | 526.5  | 531.6  | 544.5  | 527.8  | 507.1  | 489.0  | 498.1  | 516.1  | 530.3  |
| 15°   | 433.6  | 407.8  | 374.2  | 369.0  | 371.6  | 363.9  | 341.9  | 318.7  | 325.2  | 343.2  | 353.6  |
| 17.5° | 332.9  | 303.2  | 280.0  | 264.5  | 259.4  | 232.3  | 200.0  | 180.7  | 175.5  | 174.2  | 183.2  |
| 20°   | 224.5  | 219.4  | 215.5  | 196.1  | 196.1  | 157.4  | 130.3  | 116.1  | 116.1  | 118.7  | 120.0  |
| 22.5° | 167.7  | 161.3  | 162.6  | 158.7  | 148.4  | 117.4  | 103.2  | 99.4   | 99.4   | 101.9  | 101.9  |
| 25°   | 145.8  | 136.8  | 134.2  | 132.9  | 122.6  | 100.6  | 90.3   | 86.5   | 86.5   | 89.0   | 89.0   |
| 27.5° | 123.9  | 121.3  | 117.4  | 112.3  | 103.2  | 86.5   | 80.0   | 76.1   | 77.4   | 78.7   | 77.4   |
| 30°   | 113.6  | 107.1  | 101.9  | 101.9  | 91.6   | 77.4   | 72.3   | 69.7   | 67.1   | 69.7   | 71.0   |
| 32.5° | 100.6  | 96.8   | 94.2   | 90.3   | 78.7   | 68.4   | 63.2   | 60.6   | 59.4   | 59.4   | 60.6   |
| 35°   | 86.5   | 86.5   | 83.9   | 78.7   | 68.4   | 61.9   | 55.5   | 52.9   | 51.6   | 52.9   | 52.9   |
| 37.5° | 77.4   | 73.6   | 74.8   | 69.7   | 60.6   | 54.2   | 47.7   | 45.2   | 45.2   | 43.9   | 45.2   |
| 40°   | 72.3   | 65.8   | 61.9   | 59.4   | 54.2   | 46.5   | 41.3   | 38.7   | 37.4   | 37.4   | 37.4   |
| 42.5° | 64.5   | 59.4   | 51.6   | 50.3   | 49.0   | 40.0   | 33.5   | 32.3   | 31.0   | 29.7   | 29.7   |
| 45°   | 60.6   | 52.9   | 46.5   | 40.0   | 40.0   | 33.5   | 28.4   | 25.8   | 24.5   | 23.2   | 24.5   |
| 47.5° | 55.5   | 47.7   | 40.0   | 33.5   | 32.3   | 27.1   | 21.9   | 19.4   | 18.1   | 18.1   | 18.1   |
| 50°   | 52.9   | 42.6   | 34.8   | 28.4   | 24.5   | 21.9   | 16.8   | 14.2   | 12.9   | 12.9   | 12.9   |
| 52.5° | 49.0   | 40.0   | 31.0   | 24.5   | 19.4   | 16.8   | 12.9   | 10.3   | 9.0    | 9.0    | 9.0    |
| 55°   | 43.9   | 36.1   | 27.1   | 20.6   | 16.8   | 12.9   | 9.0    | 6.5    | 5.2    | 5.2    | 5.2    |
| 57.5° | 41.3   | 32.3   | 23.2   | 18.1   | 12.9   | 9.0    | 5.2    | 3.9    | 3.9    | 2.6    | 3.9    |
| 60°   | 37.4   | 28.4   | 19.4   | 14.2   | 10.3   | 6.5    | 3.9    | 1.3    | 1.3    | 1.3    | 1.3    |
| 62.5° | 32.3   | 24.5   | 16.8   | 11.6   | 7.7    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 27.1   | 19.4   | 12.9   | 9.0    | 5.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 23.2   | 16.8   | 10.3   | 6.5    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 20.6   | 14.2   | 7.7    | 5.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 16.8   | 11.6   | 6.5    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 14.2   | 9.0    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 11.6   | 6.5    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 9.0    | 5.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 7.7    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 5.2    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.9    | 1.3    | 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 | 1816.8 |
| 2.5°  | 1638.8 | 1631.0 | 1669.7 | 1733.0 | 1765.2 | 1828.4 | 1843.9 | 1883.9 | 1873.6 | 1887.8 |
| 5°    | 1356.2 | 1371.7 | 1428.4 | 1521.3 | 1554.9 | 1646.5 | 1733.0 | 1819.4 | 1874.9 | 1902.0 |
| 7.5°  | 1006.5 | 1058.1 | 1127.8 | 1212.9 | 1299.4 | 1419.4 | 1566.5 | 1667.1 | 1721.3 | 1779.4 |
| 10°   | 749.7  | 805.2  | 885.2  | 969.1  | 1109.7 | 1243.9 | 1391.0 | 1516.2 | 1562.6 | 1616.8 |
| 12.5° | 589.7  | 676.1  | 769.1  | 859.4  | 943.3  | 1071.0 | 1252.9 | 1434.9 | 1485.2 | 1526.5 |
| 15°   | 410.3  | 516.1  | 649.1  | 766.5  | 883.9  | 994.9  | 1183.3 | 1403.9 | 1472.3 | 1542.0 |
| 17.5° | 227.1  | 311.0  | 463.2  | 628.4  | 801.3  | 971.6  | 1206.5 | 1460.7 | 1563.9 | 1613.0 |
| 20°   | 131.6  | 165.2  | 273.6  | 469.7  | 698.1  | 921.3  | 1218.1 | 1567.8 | 1704.6 | 1729.1 |
| 22.5° | 108.4  | 120.0  | 154.8  | 294.2  | 571.6  | 889.1  | 1277.5 | 1717.5 | 1856.8 | 1914.9 |
| 25°   | 92.9   | 101.9  | 120.0  | 176.8  | 432.3  | 820.7  | 1314.9 | 1904.6 | 2033.6 | 2096.8 |
| 27.5° | 82.6   | 91.6   | 105.8  | 130.3  | 294.2  | 726.5  | 1376.8 | 2073.6 | 2202.6 | 2289.1 |
| 30°   | 72.3   | 80.0   | 94.2   | 111.0  | 203.9  | 620.7  | 1429.7 | 2197.5 | 2379.4 | 2406.5 |
| 32.5° | 64.5   | 71.0   | 81.3   | 95.5   | 151.0  | 471.0  | 1472.3 | 2325.2 | 2478.8 | 2538.1 |
| 35°   | 55.5   | 63.2   | 69.7   | 81.3   | 114.8  | 354.8  | 1446.5 | 2424.6 | 2624.6 | 2695.6 |
| 37.5° | 49.0   | 54.2   | 60.6   | 68.4   | 96.8   | 277.4  | 1393.6 | 2543.3 | 2749.8 | 2815.6 |
| 40°   | 41.3   | 45.2   | 52.9   | 60.6   | 87.7   | 214.2  | 1332.9 | 2686.5 | 2925.3 | 3041.4 |
| 42.5° | 34.8   | 38.7   | 43.9   | 56.8   | 72.3   | 158.7  | 1210.4 | 2797.5 | 3067.2 | 3165.3 |
| 45°   | 27.1   | 32.3   | 40.0   | 56.8   | 58.1   | 117.4  | 1083.9 | 2880.1 | 3147.2 | 3196.2 |
| 47.5° | 20.6   | 25.8   | 38.7   | 49.0   | 46.5   | 81.3   | 934.2  | 2974.3 | 3229.8 | 3274.9 |
| 50°   | 15.5   | 20.6   | 43.9   | 42.6   | 38.7   | 61.9   | 840.0  | 3040.1 | 3234.9 | 3259.5 |
| 52.5° | 10.3   | 15.5   | 36.1   | 32.3   | 32.3   | 54.2   | 814.2  | 3037.5 | 3247.8 | 3194.9 |
| 55°   | 7.7    | 11.6   | 20.6   | 23.2   | 28.4   | 47.7   | 791.0  | 3134.3 | 3251.7 | 3289.1 |
| 57.5° | 5.2    | 9.0    | 14.2   | 18.1   | 24.5   | 41.3   | 743.2  | 3250.4 | 3371.7 | 3391.1 |
| 60°   | 2.6    | 6.5    | 10.3   | 14.2   | 20.6   | 36.1   | 676.1  | 3335.6 | 3517.5 | 3538.2 |
| 62.5° | 1.3    | 3.9    | 7.7    | 11.6   | 16.8   | 28.4   | 606.5  | 3200.1 | 3454.3 | 3490.4 |
| 65°   | 0.0    | 2.6    | 5.2    | 7.7    | 10.3   | 20.6   | 492.9  | 2889.1 | 3204.0 | 3336.9 |
| 67.5° | 0.0    | 0.0    | 2.6    | 5.2    | 6.5    | 15.5   | 371.6  | 2628.5 | 2973.0 | 3153.6 |
| 70°   | 0.0    | 0.0    | 1.3    | 1.3    | 3.9    | 11.6   | 237.4  | 2176.8 | 2654.3 | 2753.6 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 7.7    | 138.1  | 1616.8 | 2080.1 | 2264.6 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.5    | 69.7   | 1040.0 | 1447.8 | 1695.5 |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.2    | 37.4   | 671.0  | 1067.1 | 1274.9 |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 21.9   | 389.7  | 682.6  | 827.1  |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 9.0    | 191.0  | 407.8  | 477.4  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.6    | 101.9  | 203.9  | 268.4  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.9    | 14.2   | 27.1   |
| 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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