

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: P674432

Luminaire Tested: **CCP-SA-2B-750-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-750-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

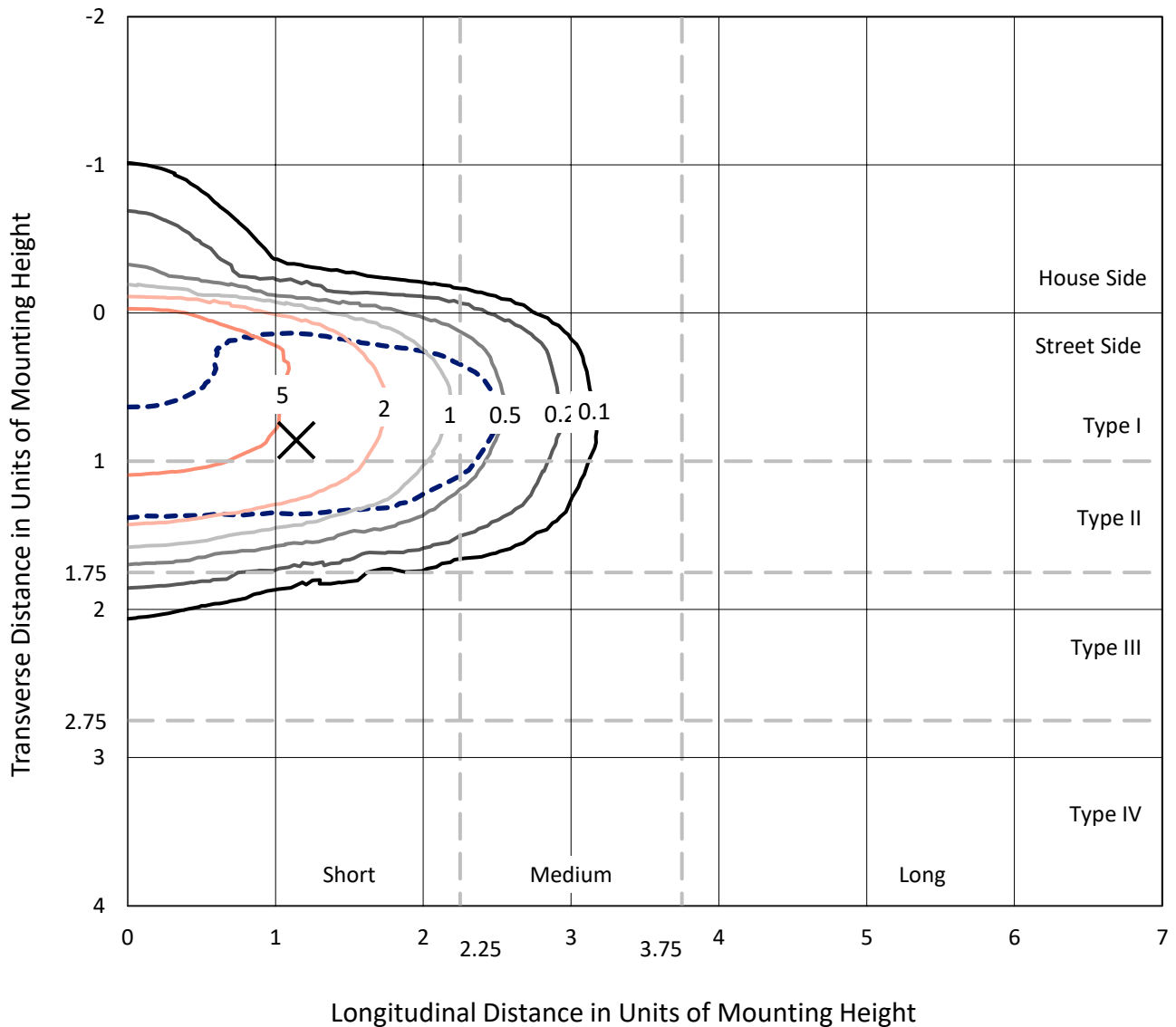
Lumens per Lamp: N/A
Luminaire Lumens: 5858.2 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

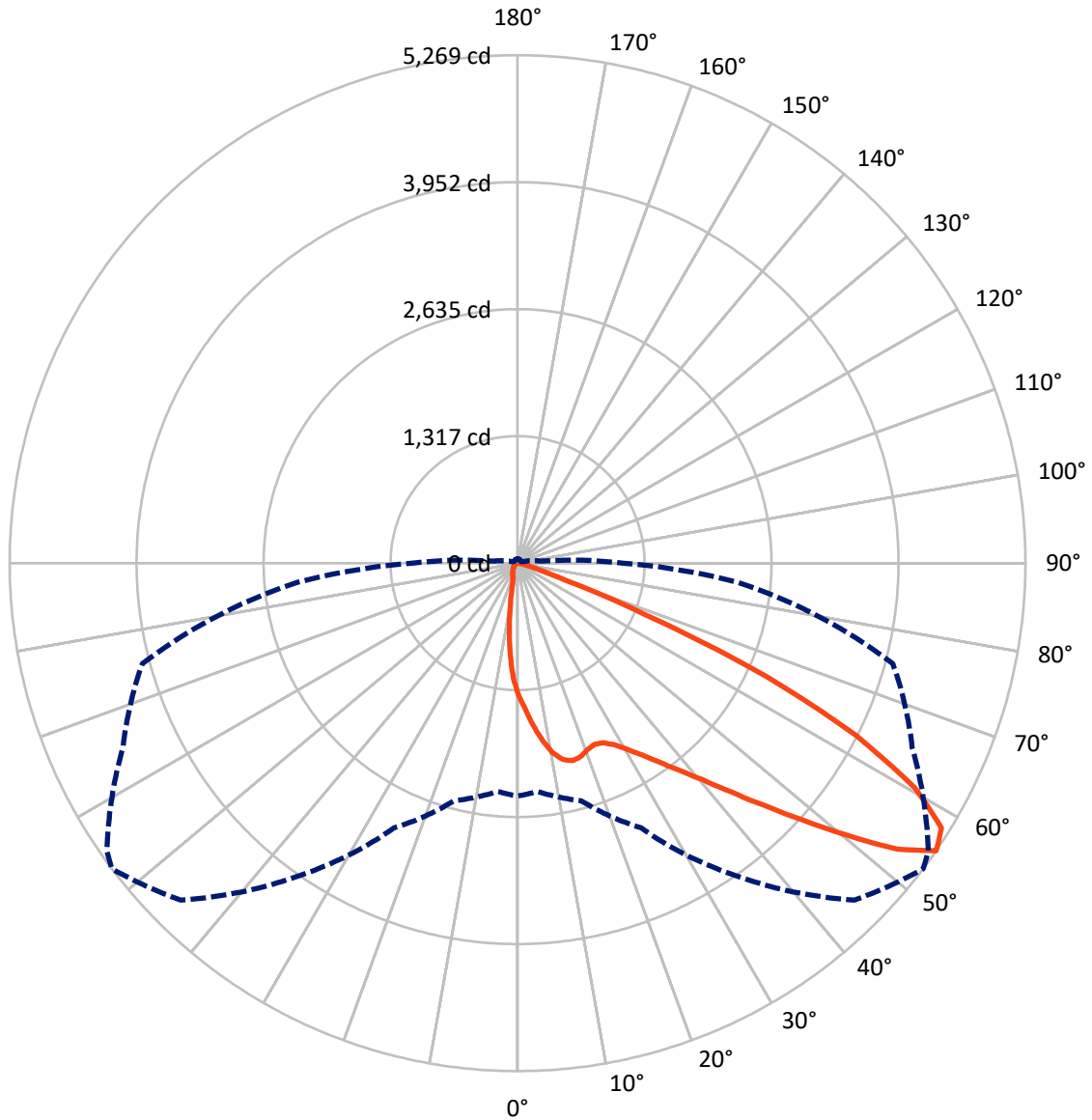
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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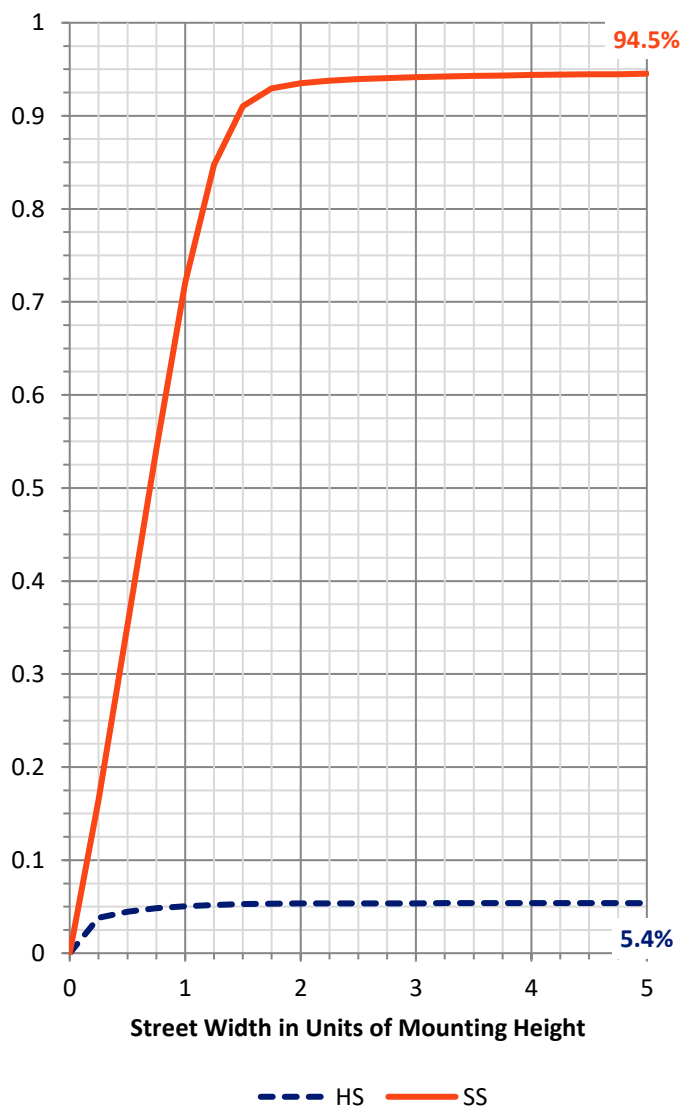
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 316.7 | 0.0 | 316.7 |
| | % Fixture | 5.4 | 0.0 | 5.4 |
| Street Side | Lumens | 5541.5 | 0.0 | 5541.5 |
| | % Fixture | 94.6 | 0.0 | 94.6 |
| Total | Lumens | 5858.2 | 0.0 | 5858.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.6 | 2.1 |
| 10°-20° | 320.3 | 5.5 |
| 20°-30° | 536.0 | 9.2 |
| 30°-40° | 877.0 | 15.0 |
| 40°-50° | 1409.7 | 24.1 |
| 50°-60° | 1591.6 | 27.2 |
| 60°-70° | 849.0 | 14.5 |
| 70°-80° | 139.5 | 2.4 |
| 80°-90° | 12.5 | 0.2 |
| 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° | 5858.2 | 100.0 |
| 0°-180° | 5858.2 | 100.0 |



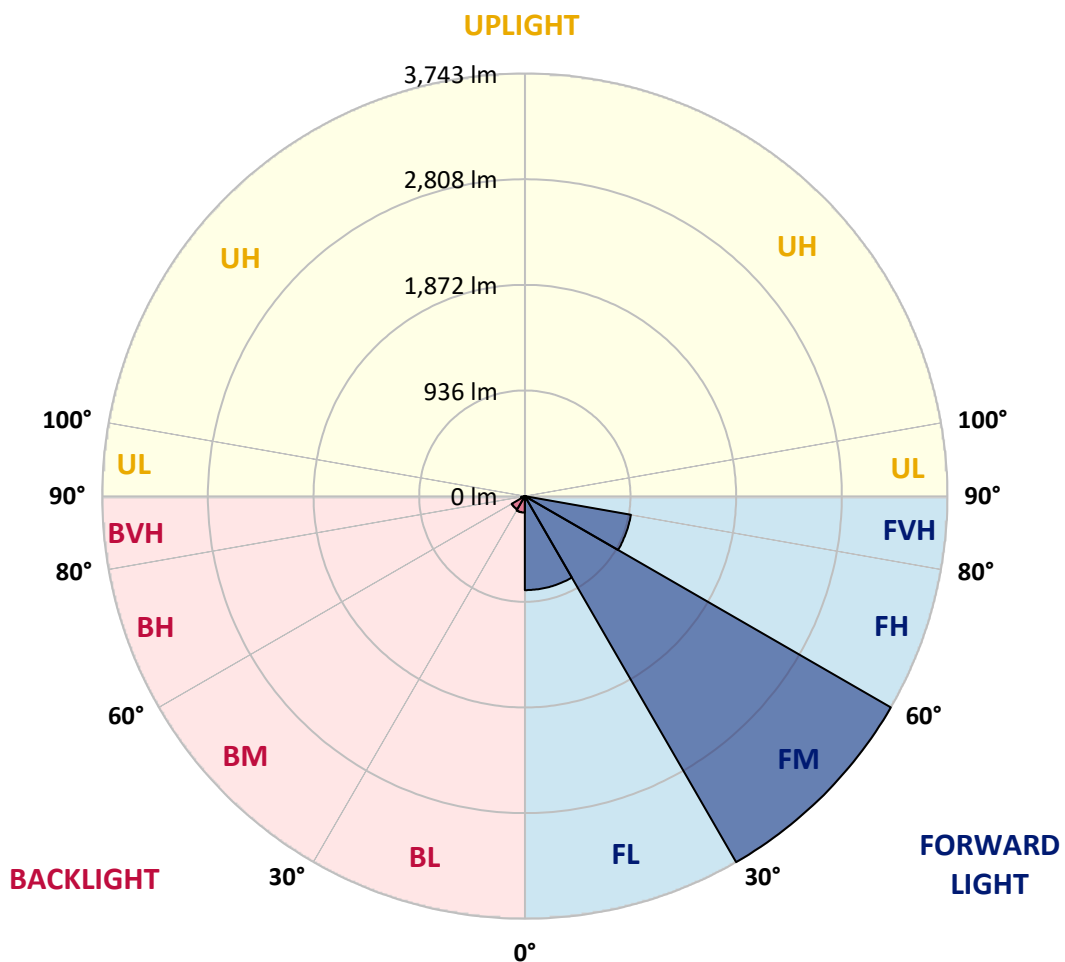
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 832.8 | 14.2 | | | |
| FM (30°-60°) | 3743.4 | 63.9 | | | |
| FH (60°-80°) | 953.9 | 16.3 | | | G1/1800 |
| FVH (80°-90°) | 11.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 146.1 | 2.5 | B1/500 | | |
| BM (30°-60°) | 134.9 | 2.3 | B0/220 | | |
| BH (60°-80°) | 34.6 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 0.0 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 |
| 2.5° | 1644.0 | 1634.3 | 1639.9 | 1625.0 | 1597.8 | 1563.9 | 1513.1 | 1515.7 | 1475.7 | 1440.8 | 1392.5 |
| 5° | 1915.5 | 1905.3 | 1902.2 | 1864.2 | 1826.2 | 1765.1 | 1689.7 | 1677.4 | 1604.0 | 1515.2 | 1414.1 |
| 7.5° | 2058.7 | 2050.0 | 2056.7 | 2042.8 | 2005.4 | 1949.9 | 1854.5 | 1845.2 | 1731.8 | 1597.3 | 1448.5 |
| 10° | 1993.0 | 1990.0 | 2018.2 | 2051.0 | 2081.3 | 2074.6 | 1998.2 | 1983.8 | 1856.5 | 1687.6 | 1483.9 |
| 12.5° | 1816.5 | 1826.2 | 1862.1 | 1922.7 | 2016.1 | 2103.9 | 2091.6 | 2094.1 | 1983.8 | 1785.7 | 1522.9 |
| 15° | 1712.8 | 1724.6 | 1745.1 | 1776.4 | 1891.4 | 2047.4 | 2127.0 | 2152.7 | 2106.0 | 1895.0 | 1569.1 |
| 17.5° | 1704.1 | 1713.8 | 1716.9 | 1728.7 | 1795.9 | 1956.6 | 2112.6 | 2161.4 | 2214.8 | 1998.2 | 1620.9 |
| 20° | 1771.3 | 1775.4 | 1772.8 | 1764.1 | 1788.2 | 1907.3 | 2067.5 | 2137.3 | 2304.6 | 2108.0 | 1666.6 |
| 22.5° | 1898.1 | 1891.9 | 1884.2 | 1851.9 | 1850.3 | 1921.2 | 2042.8 | 2115.7 | 2358.0 | 2198.9 | 1696.9 |
| 25° | 2055.1 | 2042.3 | 2031.5 | 1985.8 | 1964.3 | 1993.5 | 2064.9 | 2123.4 | 2406.2 | 2287.1 | 1718.4 |
| 27.5° | 2226.6 | 2230.7 | 2204.0 | 2142.4 | 2108.5 | 2102.4 | 2133.2 | 2176.8 | 2452.9 | 2366.2 | 1730.2 |
| 30° | 2409.8 | 2411.9 | 2377.0 | 2313.3 | 2282.5 | 2243.0 | 2240.9 | 2267.1 | 2503.2 | 2457.0 | 1741.5 |
| 32.5° | 2618.7 | 2624.4 | 2567.4 | 2501.2 | 2447.3 | 2396.0 | 2370.8 | 2392.9 | 2593.6 | 2575.6 | 1764.6 |
| 35° | 2920.5 | 2895.9 | 2818.9 | 2718.8 | 2642.3 | 2575.1 | 2536.6 | 2551.0 | 2713.7 | 2717.8 | 1810.8 |
| 37.5° | 3231.6 | 3229.0 | 3143.8 | 2999.6 | 2874.3 | 2790.7 | 2725.0 | 2748.6 | 2882.5 | 2908.2 | 1884.7 |
| 40° | 3521.6 | 3528.2 | 3454.3 | 3328.6 | 3167.4 | 3023.7 | 2953.4 | 2969.3 | 3106.8 | 3139.2 | 1974.6 |
| 42.5° | 3711.0 | 3707.4 | 3713.0 | 3677.1 | 3515.4 | 3346.0 | 3240.3 | 3249.0 | 3367.6 | 3384.5 | 2087.0 |
| 45° | 3798.2 | 3784.4 | 3832.6 | 3946.5 | 3882.4 | 3704.3 | 3583.7 | 3572.9 | 3638.1 | 3633.5 | 2189.1 |
| 47.5° | 3722.8 | 3697.1 | 3808.0 | 4082.6 | 4206.8 | 4152.9 | 3980.4 | 3960.9 | 3905.5 | 3868.5 | 2295.4 |
| 50° | 3347.6 | 3336.3 | 3573.4 | 4017.9 | 4410.5 | 4567.6 | 4440.8 | 4368.5 | 4144.2 | 4042.0 | 2351.3 |
| 52.5° | 2990.8 | 2959.5 | 3119.7 | 3687.9 | 4319.7 | 4901.2 | 4927.4 | 4798.6 | 4342.3 | 4091.8 | 2332.3 |
| 55° | 2416.0 | 2377.5 | 2552.0 | 3029.8 | 3959.9 | 4943.8 | 5269.2 | 5202.0 | 4515.8 | 4030.2 | 2293.8 |
| 57.5° | 1467.4 | 1429.5 | 1686.1 | 2170.1 | 3166.9 | 4589.7 | 5185.1 | 5253.3 | 4649.2 | 3962.5 | 2268.7 |
| 60° | 617.0 | 592.8 | 693.4 | 1035.8 | 2022.3 | 3772.0 | 4738.5 | 4908.9 | 4674.4 | 3869.6 | 2278.9 |
| 62.5° | 320.8 | 310.0 | 315.7 | 414.7 | 817.6 | 2483.7 | 3944.0 | 4240.7 | 4420.8 | 3828.5 | 2289.2 |
| 65° | 240.7 | 232.5 | 214.5 | 227.9 | 317.7 | 1073.8 | 2834.3 | 3231.6 | 3871.1 | 3724.3 | 2219.9 |
| 67.5° | 197.6 | 189.9 | 177.1 | 173.0 | 187.3 | 372.6 | 1446.9 | 1963.3 | 3033.4 | 3280.3 | 1971.5 |
| 70° | 157.6 | 155.0 | 150.9 | 143.2 | 140.6 | 180.7 | 518.9 | 800.2 | 2005.9 | 2313.3 | 1428.9 |
| 72.5° | 131.4 | 131.9 | 127.3 | 120.6 | 111.4 | 116.5 | 206.8 | 273.6 | 970.6 | 1109.2 | 598.5 |
| 75° | 109.8 | 109.8 | 111.4 | 102.1 | 92.9 | 80.1 | 115.0 | 133.5 | 311.6 | 256.1 | 127.8 |
| 77.5° | 86.2 | 87.3 | 93.9 | 86.2 | 74.4 | 50.3 | 62.6 | 71.3 | 92.4 | 73.9 | 46.7 |
| 80° | 68.8 | 67.8 | 65.2 | 77.5 | 66.7 | 35.4 | 29.8 | 32.8 | 43.1 | 35.4 | 23.1 |
| 82.5° | 48.2 | 47.7 | 45.7 | 52.4 | 51.8 | 26.2 | 19.5 | 20.0 | 26.2 | 22.6 | 14.4 |
| 85° | 11.8 | 13.9 | 29.3 | 24.6 | 21.6 | 15.4 | 11.8 | 12.8 | 16.9 | 14.9 | 7.7 |
| 87.5° | 5.1 | 5.1 | 13.3 | 15.9 | 10.3 | 6.7 | 5.1 | 5.6 | 8.7 | 8.7 | 4.6 |
| 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° | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 | 1370.9 |
| 2.5° | 1375.6 | 1342.2 | 1300.1 | 1255.5 | 1209.8 | 1154.9 | 1120.0 | 1091.2 | 1068.6 | 1051.2 | 1045.0 |
| 5° | 1380.7 | 1316.5 | 1221.1 | 1102.5 | 981.9 | 869.0 | 781.7 | 717.0 | 663.7 | 634.4 | 621.6 |
| 7.5° | 1380.2 | 1295.0 | 1122.5 | 923.9 | 727.8 | 565.1 | 449.6 | 378.3 | 330.5 | 311.0 | 299.2 |
| 10° | 1379.7 | 1266.8 | 1010.1 | 725.8 | 486.6 | 327.5 | 241.2 | 201.2 | 183.8 | 177.1 | 176.1 |
| 12.5° | 1394.6 | 1234.4 | 884.4 | 534.3 | 305.4 | 203.8 | 167.8 | 158.6 | 154.5 | 152.4 | 151.9 |
| 15° | 1402.8 | 1204.6 | 751.9 | 377.3 | 205.8 | 161.2 | 149.9 | 145.8 | 144.2 | 143.2 | 142.7 |
| 17.5° | 1411.5 | 1158.5 | 626.2 | 273.1 | 164.8 | 146.3 | 139.6 | 137.0 | 136.0 | 136.0 | 136.0 |
| 20° | 1413.0 | 1108.7 | 501.5 | 201.2 | 146.3 | 136.5 | 129.9 | 127.3 | 125.8 | 124.7 | 124.7 |
| 22.5° | 1401.7 | 1049.6 | 394.2 | 163.2 | 135.5 | 127.3 | 120.1 | 116.0 | 113.4 | 112.9 | 112.9 |
| 25° | 1373.5 | 966.0 | 302.3 | 143.2 | 126.8 | 118.1 | 109.3 | 104.7 | 102.7 | 102.7 | 102.7 |
| 27.5° | 1333.0 | 867.4 | 233.5 | 127.3 | 115.5 | 106.8 | 99.1 | 95.0 | 94.4 | 93.9 | 94.4 |
| 30° | 1286.8 | 772.5 | 178.6 | 112.9 | 102.1 | 95.0 | 88.8 | 86.7 | 87.8 | 87.8 | 88.3 |
| 32.5° | 1240.6 | 677.5 | 139.6 | 101.6 | 90.3 | 84.2 | 81.1 | 81.1 | 82.6 | 82.6 | 82.6 |
| 35° | 1201.1 | 584.6 | 117.0 | 92.4 | 82.1 | 77.0 | 75.5 | 77.0 | 78.0 | 78.5 | 78.5 |
| 37.5° | 1179.0 | 504.5 | 103.2 | 84.2 | 75.5 | 71.3 | 70.8 | 72.4 | 74.4 | 76.0 | 76.5 |
| 40° | 1170.8 | 443.0 | 95.0 | 78.0 | 69.3 | 66.7 | 66.2 | 68.3 | 71.9 | 74.4 | 74.9 |
| 42.5° | 1171.3 | 388.5 | 87.8 | 71.9 | 65.2 | 61.6 | 61.6 | 64.7 | 68.3 | 70.8 | 70.8 |
| 45° | 1174.9 | 341.8 | 80.6 | 65.7 | 61.6 | 55.4 | 55.9 | 60.1 | 62.6 | 65.2 | 65.2 |
| 47.5° | 1178.0 | 304.4 | 72.9 | 59.0 | 53.4 | 50.3 | 51.3 | 54.4 | 58.0 | 62.1 | 62.1 |
| 50° | 1160.0 | 277.7 | 65.2 | 51.8 | 46.7 | 45.7 | 47.7 | 50.3 | 55.4 | 59.5 | 60.1 |
| 52.5° | 1116.9 | 253.6 | 58.5 | 46.2 | 42.1 | 42.6 | 45.2 | 46.7 | 50.8 | 51.3 | 51.8 |
| 55° | 1097.9 | 241.2 | 53.4 | 42.1 | 38.5 | 40.0 | 41.6 | 42.1 | 41.1 | 38.5 | 38.5 |
| 57.5° | 1093.8 | 233.0 | 48.2 | 38.0 | 35.4 | 37.5 | 37.0 | 33.9 | 30.8 | 27.7 | 27.2 |
| 60° | 1097.9 | 221.7 | 44.1 | 32.8 | 32.3 | 32.8 | 31.3 | 25.7 | 21.6 | 19.5 | 18.5 |
| 62.5° | 1074.3 | 205.3 | 40.5 | 28.2 | 28.2 | 27.7 | 23.6 | 17.5 | 13.9 | 12.3 | 11.8 |
| 65° | 996.3 | 173.0 | 37.0 | 23.6 | 23.1 | 22.1 | 15.9 | 11.8 | 9.2 | 7.7 | 7.2 |
| 67.5° | 842.8 | 134.0 | 33.4 | 19.5 | 18.5 | 15.4 | 10.3 | 7.7 | 5.1 | 4.6 | 4.1 |
| 70° | 574.9 | 83.2 | 28.2 | 15.4 | 13.9 | 9.8 | 6.2 | 4.6 | 3.1 | 2.6 | 2.1 |
| 72.5° | 208.4 | 48.2 | 23.6 | 11.8 | 9.2 | 6.2 | 3.6 | 2.1 | 1.5 | 1.5 | 1.0 |
| 75° | 49.3 | 33.9 | 18.0 | 8.7 | 6.2 | 3.6 | 2.1 | 1.5 | 1.0 | 1.0 | 0.5 |
| 77.5° | 22.6 | 26.2 | 11.8 | 5.1 | 4.1 | 2.6 | 1.5 | 1.0 | 0.5 | 0.5 | 0.0 |
| 80° | 12.8 | 18.5 | 5.6 | 3.6 | 3.1 | 2.1 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 |
| 82.5° | 6.7 | 10.3 | 4.1 | 3.1 | 2.6 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.6 | 5.1 | 3.1 | 2.6 | 2.1 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.6 | 3.6 | 3.1 | 2.6 | 2.1 | 1.5 | 0.5 | 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 |

(END OF REPORT)