

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: P674433

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674433
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-750-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

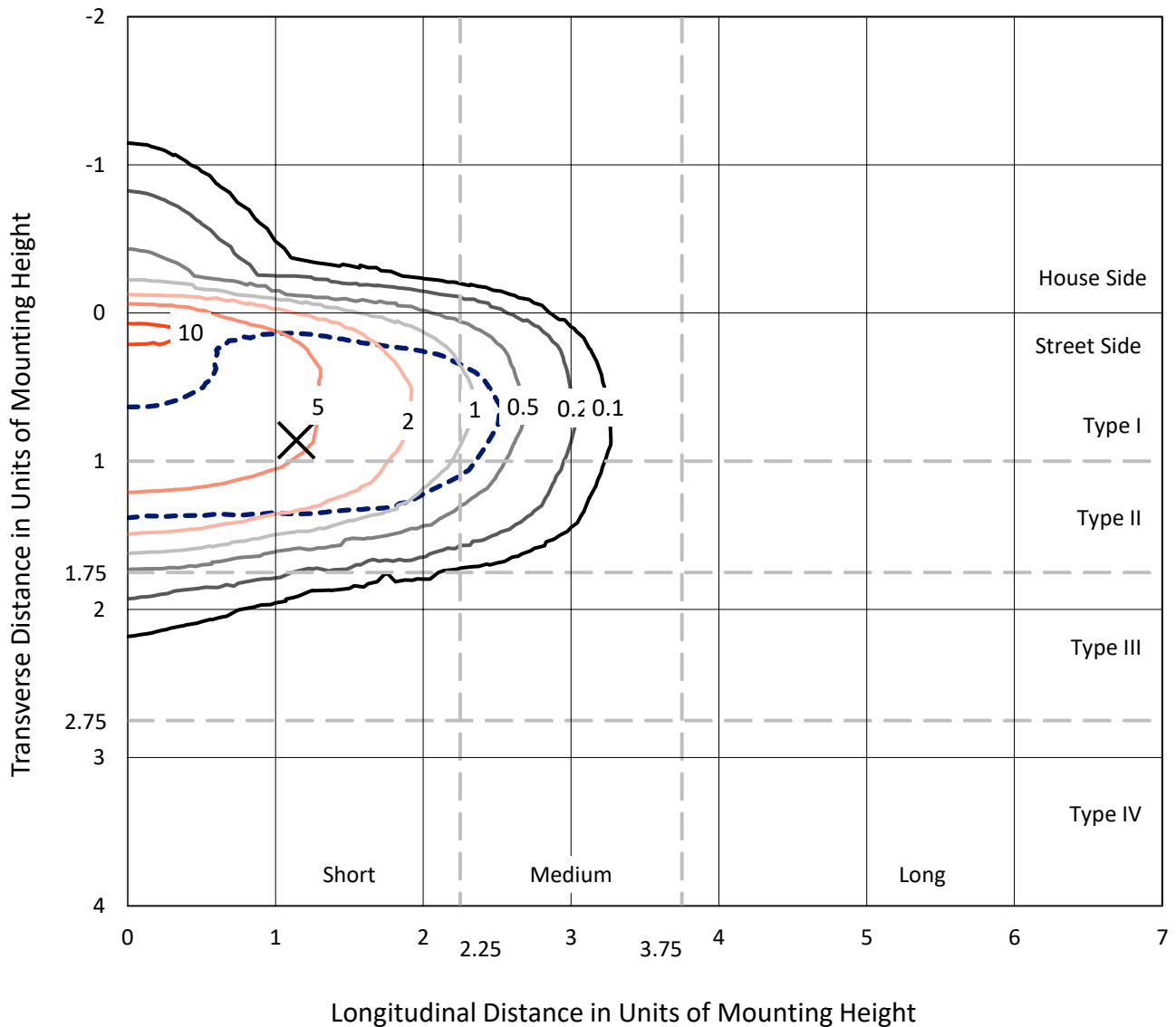
Lumens per Lamp: N/A
Luminaire Lumens: 7669.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

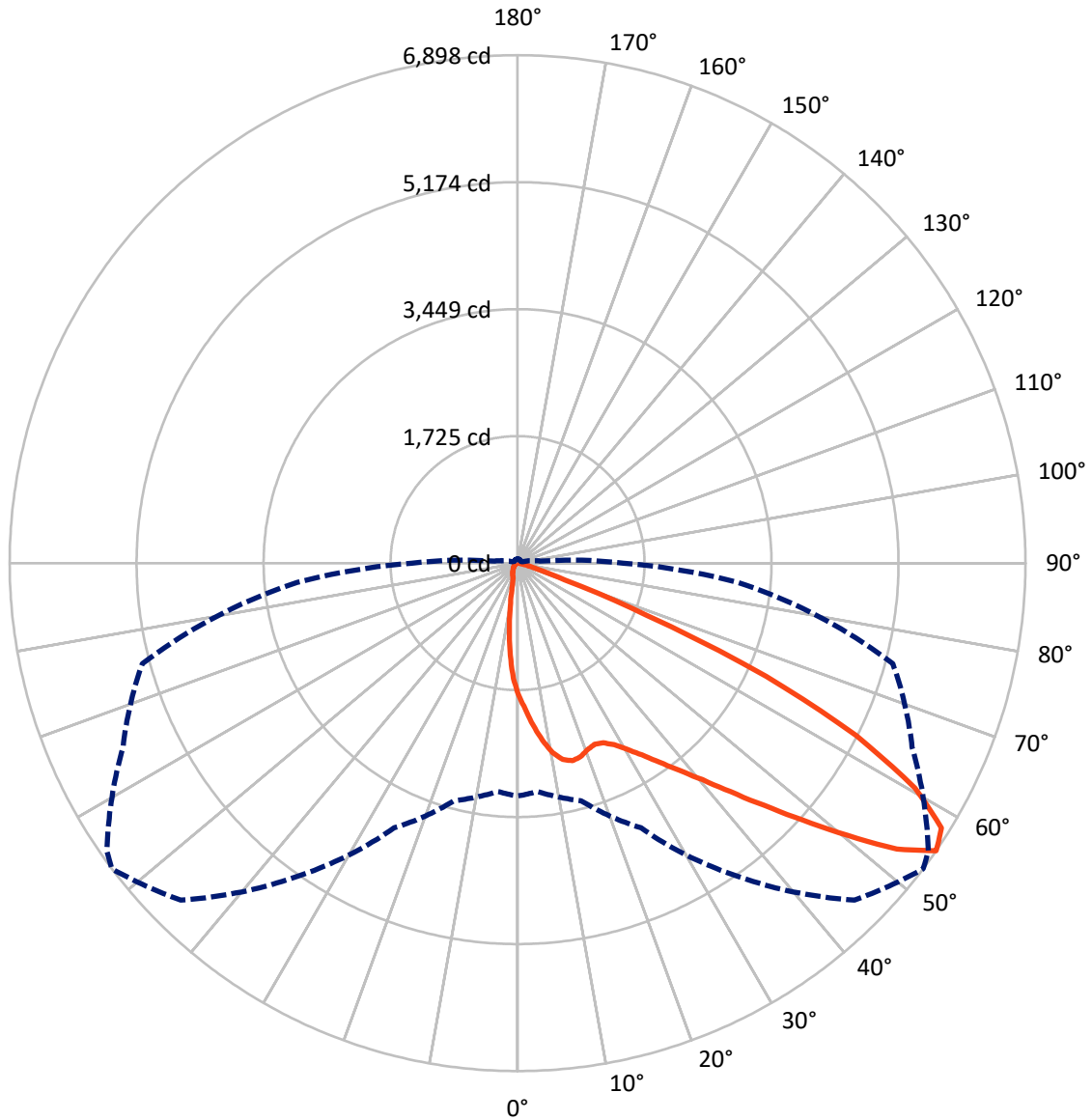
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.6 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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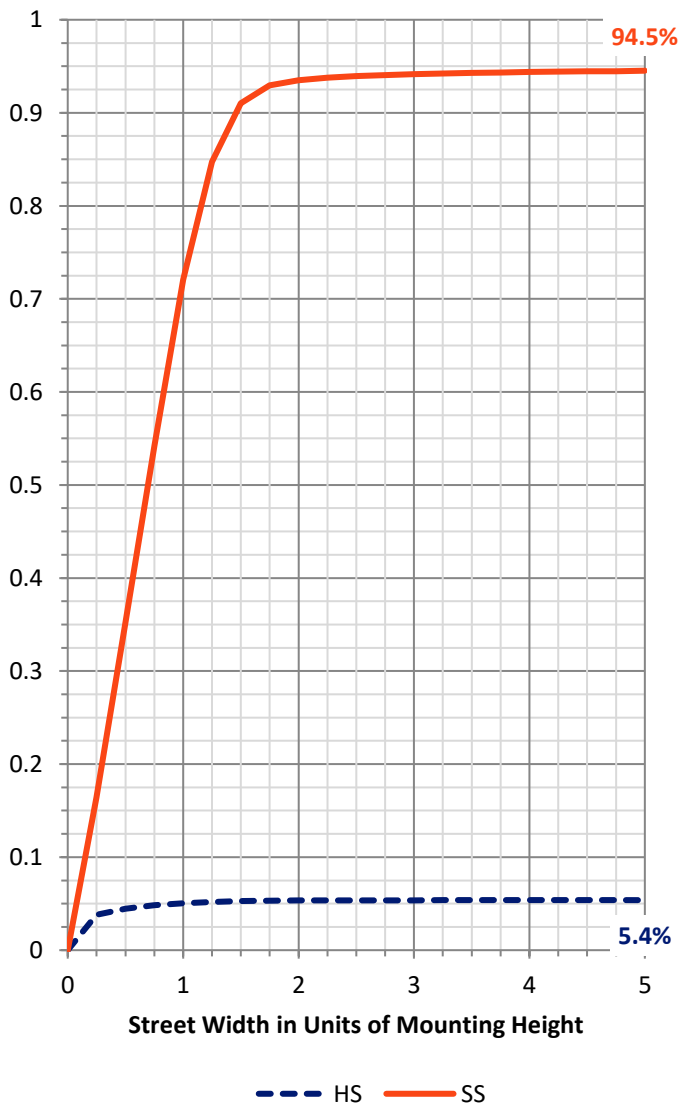
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 414.6 | 0.0 | 414.6 |
| | % Fixture | 5.4 | 0.0 | 5.4 |
| Street Side | Lumens | 7254.9 | 0.0 | 7254.9 |
| | % Fixture | 94.6 | 0.0 | 94.6 |
| Total | Lumens | 7669.5 | 0.0 | 7669.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 160.5 | 2.1 |
| 10°-20° | 419.3 | 5.5 |
| 20°-30° | 701.8 | 9.2 |
| 30°-40° | 1148.1 | 15.0 |
| 40°-50° | 1845.6 | 24.1 |
| 50°-60° | 2083.7 | 27.2 |
| 60°-70° | 1111.5 | 14.5 |
| 70°-80° | 182.6 | 2.4 |
| 80°-90° | 16.3 | 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° | 7669.5 | 100.0 |
| 0°-180° | 7669.5 | 100.0 |



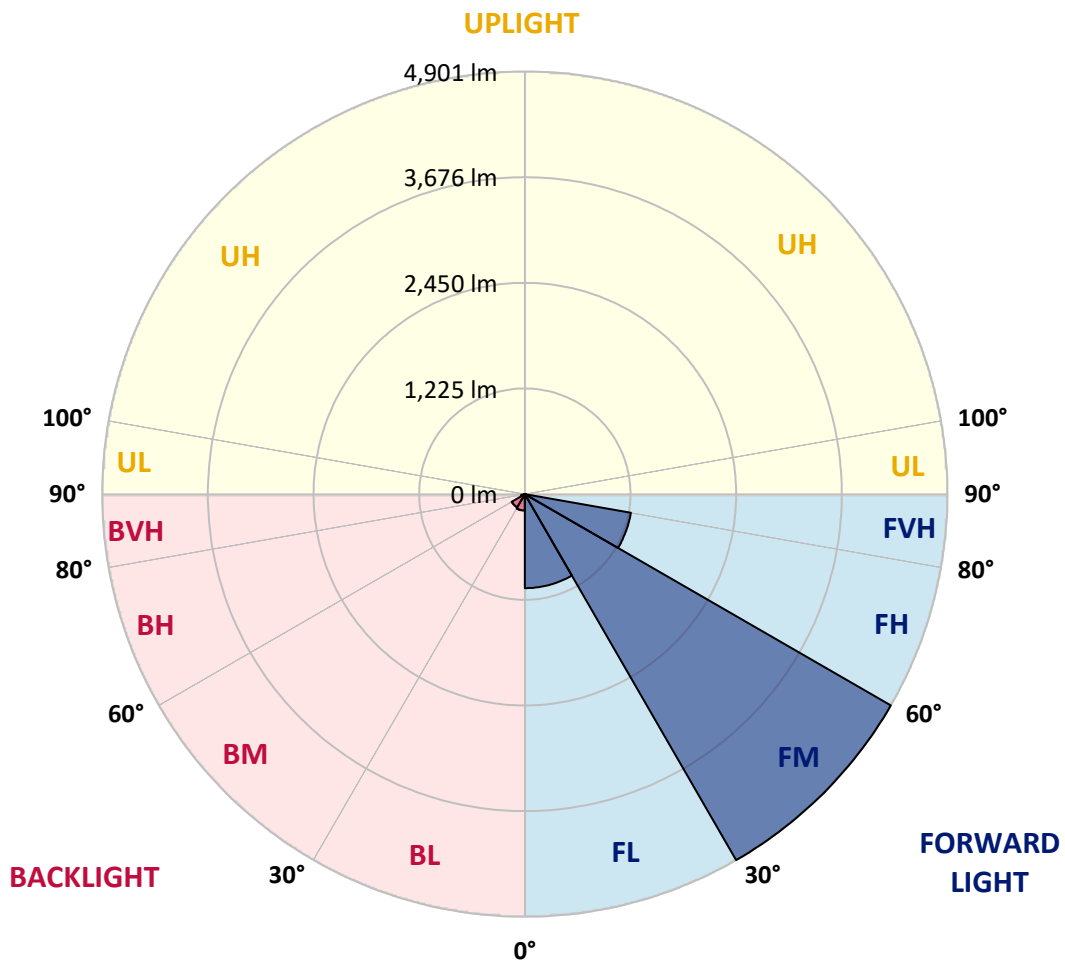
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1090.3 | 14.2 | | | |
| FM (30°-60°) | 4900.8 | 63.9 | | | |
| FH (60°-80°) | 1248.8 | 16.3 | | | G1/1800 |
| FVH (80°-90°) | 15.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 191.3 | 2.5 | B1/500 | | |
| BM (30°-60°) | 176.6 | 2.3 | B0/220 | | |
| BH (60°-80°) | 45.3 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.3 | 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° | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 |
| 2.5° | 2152.3 | 2139.6 | 2146.9 | 2127.5 | 2091.8 | 2047.5 | 1981.0 | 1984.3 | 1931.9 | 1886.2 | 1823.1 |
| 5° | 2507.8 | 2494.4 | 2490.3 | 2440.6 | 2390.9 | 2310.9 | 2212.1 | 2196.0 | 2099.9 | 1983.7 | 1851.3 |
| 7.5° | 2695.3 | 2683.8 | 2692.6 | 2674.4 | 2625.4 | 2552.8 | 2427.8 | 2415.7 | 2267.2 | 2091.2 | 1896.3 |
| 10° | 2609.3 | 2605.2 | 2642.2 | 2685.2 | 2724.8 | 2716.1 | 2616.0 | 2597.2 | 2430.5 | 2209.4 | 1942.7 |
| 12.5° | 2378.1 | 2390.9 | 2437.9 | 2517.2 | 2639.5 | 2754.4 | 2738.3 | 2741.6 | 2597.2 | 2337.8 | 1993.7 |
| 15° | 2242.4 | 2257.8 | 2284.7 | 2325.7 | 2476.2 | 2680.5 | 2784.6 | 2818.2 | 2757.1 | 2480.9 | 2054.2 |
| 17.5° | 2230.9 | 2243.7 | 2247.7 | 2263.2 | 2351.2 | 2561.5 | 2765.8 | 2829.7 | 2899.5 | 2616.0 | 2122.1 |
| 20° | 2319.0 | 2324.3 | 2321.0 | 2309.6 | 2341.1 | 2497.0 | 2706.7 | 2798.1 | 3017.1 | 2759.8 | 2181.9 |
| 22.5° | 2484.9 | 2476.9 | 2466.8 | 2424.5 | 2422.4 | 2515.2 | 2674.4 | 2769.9 | 3087.0 | 2878.7 | 2221.5 |
| 25° | 2690.6 | 2673.8 | 2659.7 | 2599.8 | 2571.6 | 2609.9 | 2703.3 | 2779.9 | 3150.2 | 2994.3 | 2249.8 |
| 27.5° | 2915.0 | 2920.4 | 2885.4 | 2804.8 | 2760.5 | 2752.4 | 2792.7 | 2849.8 | 3211.3 | 3097.8 | 2265.2 |
| 30° | 3154.9 | 3157.6 | 3111.9 | 3028.6 | 2988.2 | 2936.5 | 2933.8 | 2968.1 | 3277.2 | 3216.7 | 2280.0 |
| 32.5° | 3428.4 | 3435.8 | 3361.2 | 3274.5 | 3204.0 | 3136.8 | 3103.8 | 3132.7 | 3395.5 | 3371.9 | 2310.2 |
| 35° | 3823.5 | 3791.3 | 3690.5 | 3559.4 | 3459.3 | 3371.3 | 3320.9 | 3339.7 | 3552.7 | 3558.1 | 2370.7 |
| 37.5° | 4230.7 | 4227.4 | 4115.8 | 3927.0 | 3763.0 | 3653.5 | 3567.5 | 3598.4 | 3773.8 | 3807.4 | 2467.5 |
| 40° | 4610.4 | 4619.1 | 4522.4 | 4357.7 | 4146.7 | 3958.6 | 3866.5 | 3887.3 | 4067.4 | 4109.8 | 2585.1 |
| 42.5° | 4858.3 | 4853.6 | 4861.0 | 4814.0 | 4602.3 | 4380.6 | 4242.1 | 4253.6 | 4408.8 | 4431.0 | 2732.2 |
| 45° | 4972.6 | 4954.4 | 5017.6 | 5166.8 | 5082.8 | 4849.6 | 4691.7 | 4677.6 | 4762.9 | 4756.9 | 2865.9 |
| 47.5° | 4873.8 | 4840.2 | 4985.3 | 5344.8 | 5507.5 | 5436.9 | 5211.1 | 5185.6 | 5113.0 | 5064.6 | 3005.0 |
| 50° | 4382.6 | 4367.8 | 4678.3 | 5260.2 | 5774.2 | 5979.9 | 5813.9 | 5719.1 | 5425.5 | 5291.8 | 3078.3 |
| 52.5° | 3915.6 | 3874.6 | 4084.2 | 4828.1 | 5655.3 | 6416.6 | 6450.9 | 6282.2 | 5684.9 | 5356.9 | 3053.4 |
| 55° | 3163.0 | 3112.6 | 3341.0 | 3966.6 | 5184.2 | 6472.4 | 6898.4 | 6810.4 | 5912.0 | 5276.3 | 3003.0 |
| 57.5° | 1921.2 | 1871.4 | 2207.4 | 2841.1 | 4146.1 | 6008.8 | 6788.2 | 6877.6 | 6086.7 | 5187.6 | 2970.1 |
| 60° | 807.7 | 776.1 | 907.8 | 1356.0 | 2647.6 | 4938.3 | 6203.6 | 6426.7 | 6119.6 | 5066.0 | 2983.5 |
| 62.5° | 420.0 | 405.9 | 413.3 | 543.0 | 1070.4 | 3251.7 | 5163.4 | 5551.8 | 5787.7 | 5012.2 | 2997.0 |
| 65° | 315.2 | 304.4 | 280.9 | 298.4 | 415.9 | 1405.8 | 3710.6 | 4230.7 | 5068.0 | 4875.8 | 2906.3 |
| 67.5° | 258.7 | 248.6 | 231.8 | 226.5 | 245.3 | 487.8 | 1894.3 | 2570.3 | 3971.3 | 4294.6 | 2581.0 |
| 70° | 206.3 | 202.9 | 197.6 | 187.5 | 184.1 | 236.5 | 679.4 | 1047.6 | 2626.1 | 3028.6 | 1870.8 |
| 72.5° | 172.0 | 172.7 | 166.6 | 157.9 | 145.8 | 152.5 | 270.8 | 358.2 | 1270.7 | 1452.1 | 783.5 |
| 75° | 143.8 | 143.8 | 145.8 | 133.7 | 121.6 | 104.8 | 150.5 | 174.7 | 407.9 | 335.3 | 167.3 |
| 77.5° | 112.9 | 114.2 | 123.0 | 112.9 | 97.4 | 65.9 | 82.0 | 93.4 | 121.0 | 96.8 | 61.1 |
| 80° | 90.0 | 88.7 | 85.3 | 101.5 | 87.4 | 46.4 | 39.0 | 43.0 | 56.4 | 46.4 | 30.2 |
| 82.5° | 63.2 | 62.5 | 59.8 | 68.5 | 67.9 | 34.3 | 25.5 | 26.2 | 34.3 | 29.6 | 18.8 |
| 85° | 15.5 | 18.1 | 38.3 | 32.3 | 28.2 | 20.2 | 15.5 | 16.8 | 22.2 | 19.5 | 10.1 |
| 87.5° | 6.7 | 6.7 | 17.5 | 20.8 | 13.4 | 8.7 | 6.7 | 7.4 | 11.4 | 11.4 | 6.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 | 1794.8 |
| 2.5° | 1800.9 | 1757.2 | 1702.1 | 1643.6 | 1583.8 | 1511.9 | 1466.2 | 1428.6 | 1399.0 | 1376.2 | 1368.1 |
| 5° | 1807.6 | 1723.6 | 1598.6 | 1443.4 | 1285.5 | 1137.6 | 1023.4 | 938.7 | 868.9 | 830.6 | 813.8 |
| 7.5° | 1806.9 | 1695.4 | 1469.6 | 1209.5 | 952.9 | 739.8 | 588.6 | 495.2 | 432.7 | 407.2 | 391.8 |
| 10° | 1806.3 | 1658.4 | 1322.4 | 950.2 | 637.0 | 428.7 | 315.8 | 263.4 | 240.6 | 231.8 | 230.5 |
| 12.5° | 1825.7 | 1616.1 | 1157.8 | 699.5 | 399.8 | 266.8 | 219.7 | 207.6 | 202.3 | 199.6 | 198.9 |
| 15° | 1836.5 | 1577.1 | 984.4 | 493.9 | 269.5 | 211.0 | 196.2 | 190.8 | 188.8 | 187.5 | 186.8 |
| 17.5° | 1847.9 | 1516.6 | 819.8 | 357.5 | 215.7 | 191.5 | 182.8 | 179.4 | 178.1 | 178.1 | 178.1 |
| 20° | 1849.9 | 1451.5 | 656.5 | 263.4 | 191.5 | 178.7 | 170.0 | 166.6 | 164.6 | 163.3 | 163.3 |
| 22.5° | 1835.1 | 1374.2 | 516.1 | 213.7 | 177.4 | 166.6 | 157.2 | 151.9 | 148.5 | 147.8 | 147.8 |
| 25° | 1798.2 | 1264.6 | 395.8 | 187.5 | 166.0 | 154.6 | 143.1 | 137.1 | 134.4 | 134.4 | 134.4 |
| 27.5° | 1745.1 | 1135.6 | 305.7 | 166.6 | 151.2 | 139.8 | 129.7 | 124.3 | 123.6 | 123.0 | 123.6 |
| 30° | 1684.6 | 1011.3 | 233.8 | 147.8 | 133.7 | 124.3 | 116.3 | 113.6 | 114.9 | 114.9 | 115.6 |
| 32.5° | 1624.2 | 887.0 | 182.8 | 133.0 | 118.3 | 110.2 | 106.2 | 106.2 | 108.2 | 108.2 | 108.2 |
| 35° | 1572.4 | 765.4 | 153.2 | 121.0 | 107.5 | 100.8 | 98.8 | 100.8 | 102.1 | 102.8 | 102.8 |
| 37.5° | 1543.5 | 660.5 | 135.1 | 110.2 | 98.8 | 93.4 | 92.7 | 94.7 | 97.4 | 99.5 | 100.1 |
| 40° | 1532.8 | 579.9 | 124.3 | 102.1 | 90.7 | 87.4 | 86.7 | 89.4 | 94.1 | 97.4 | 98.1 |
| 42.5° | 1533.4 | 508.7 | 114.9 | 94.1 | 85.3 | 80.6 | 80.6 | 84.7 | 89.4 | 92.7 | 92.7 |
| 45° | 1538.1 | 447.5 | 105.5 | 86.0 | 80.6 | 72.6 | 73.2 | 78.6 | 82.0 | 85.3 | 85.3 |
| 47.5° | 1542.2 | 398.5 | 95.4 | 77.3 | 69.9 | 65.9 | 67.2 | 71.2 | 75.9 | 81.3 | 81.3 |
| 50° | 1518.7 | 363.5 | 85.3 | 67.9 | 61.1 | 59.8 | 62.5 | 65.9 | 72.6 | 77.9 | 78.6 |
| 52.5° | 1462.2 | 332.0 | 76.6 | 60.5 | 55.1 | 55.8 | 59.1 | 61.1 | 66.5 | 67.2 | 67.9 |
| 55° | 1437.3 | 315.8 | 69.9 | 55.1 | 50.4 | 52.4 | 54.4 | 55.1 | 53.8 | 50.4 | 50.4 |
| 57.5° | 1432.0 | 305.1 | 63.2 | 49.7 | 46.4 | 49.1 | 48.4 | 44.3 | 40.3 | 36.3 | 35.6 |
| 60° | 1437.3 | 290.3 | 57.8 | 43.0 | 42.3 | 43.0 | 41.0 | 33.6 | 28.2 | 25.5 | 24.2 |
| 62.5° | 1406.4 | 268.8 | 53.1 | 37.0 | 37.0 | 36.3 | 30.9 | 22.8 | 18.1 | 16.1 | 15.5 |
| 65° | 1304.3 | 226.5 | 48.4 | 30.9 | 30.2 | 28.9 | 20.8 | 15.5 | 12.1 | 10.1 | 9.4 |
| 67.5° | 1103.4 | 175.4 | 43.7 | 25.5 | 24.2 | 20.2 | 13.4 | 10.1 | 6.7 | 6.0 | 5.4 |
| 70° | 752.6 | 108.9 | 37.0 | 20.2 | 18.1 | 12.8 | 8.1 | 6.0 | 4.0 | 3.4 | 2.7 |
| 72.5° | 272.8 | 63.2 | 30.9 | 15.5 | 12.1 | 8.1 | 4.7 | 2.7 | 2.0 | 2.0 | 1.3 |
| 75° | 64.5 | 44.3 | 23.5 | 11.4 | 8.1 | 4.7 | 2.7 | 2.0 | 1.3 | 1.3 | 0.7 |
| 77.5° | 29.6 | 34.3 | 15.5 | 6.7 | 5.4 | 3.4 | 2.0 | 1.3 | 0.7 | 0.7 | 0.0 |
| 80° | 16.8 | 24.2 | 7.4 | 4.7 | 4.0 | 2.7 | 1.3 | 0.7 | 0.7 | 0.0 | 0.0 |
| 82.5° | 8.7 | 13.4 | 5.4 | 4.0 | 3.4 | 2.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 6.0 | 6.7 | 4.0 | 3.4 | 2.7 | 2.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.7 | 4.7 | 4.0 | 3.4 | 2.7 | 2.0 | 0.7 | 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)