

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: P674754

Luminaire Tested: **CCP-SA-2C-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

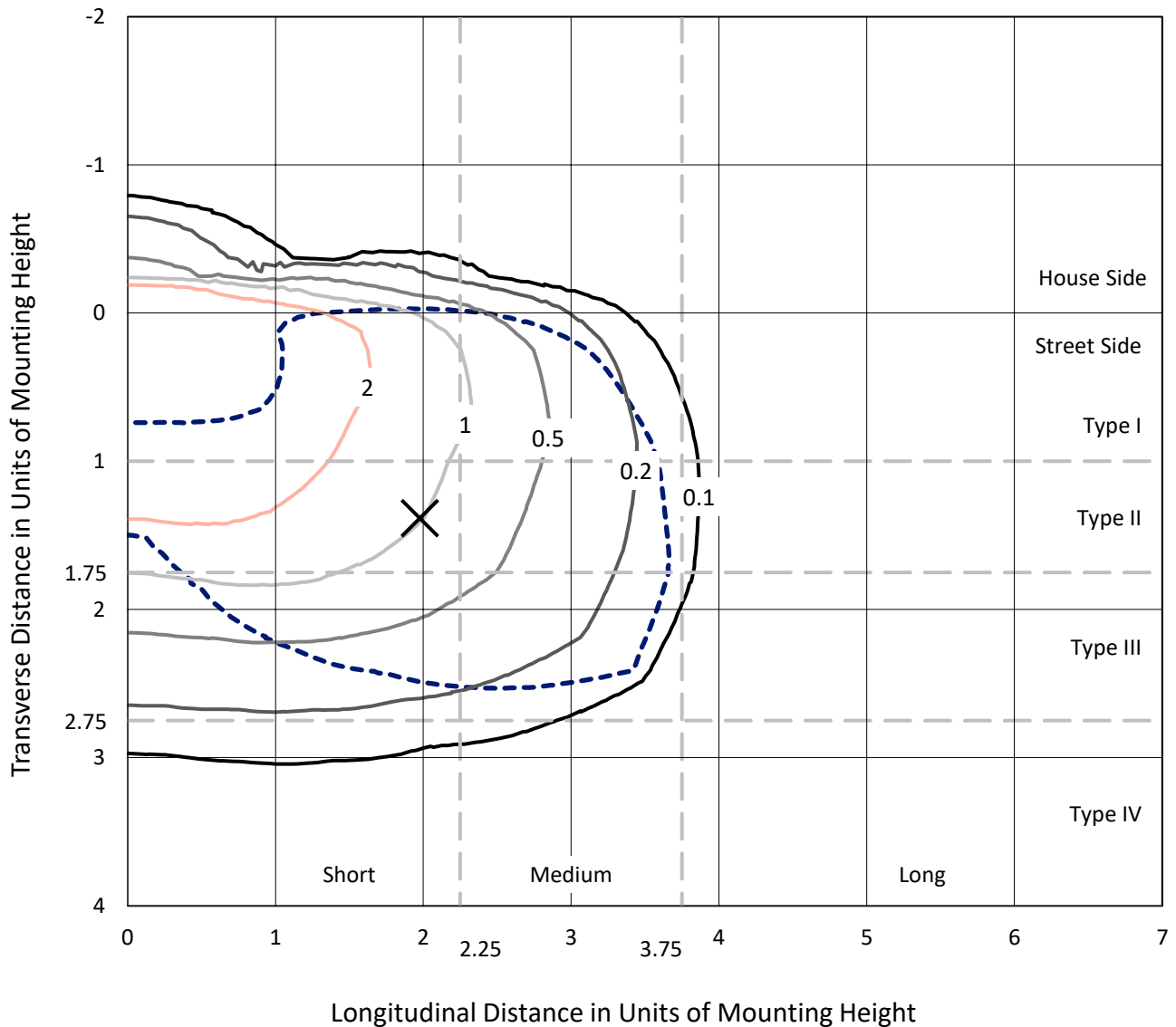
Lumens per Lamp: N/A
Luminaire Lumens: 5697.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

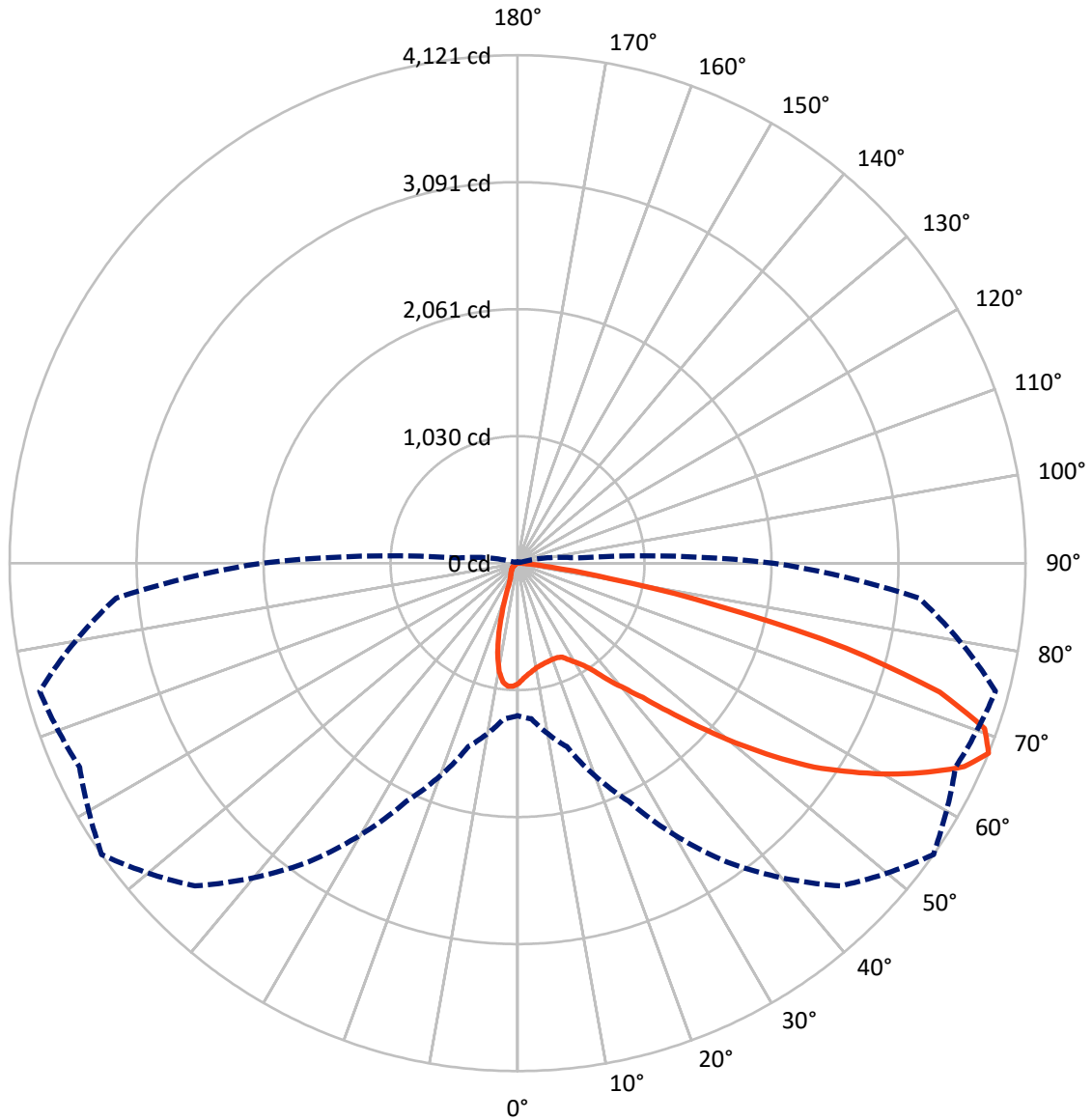
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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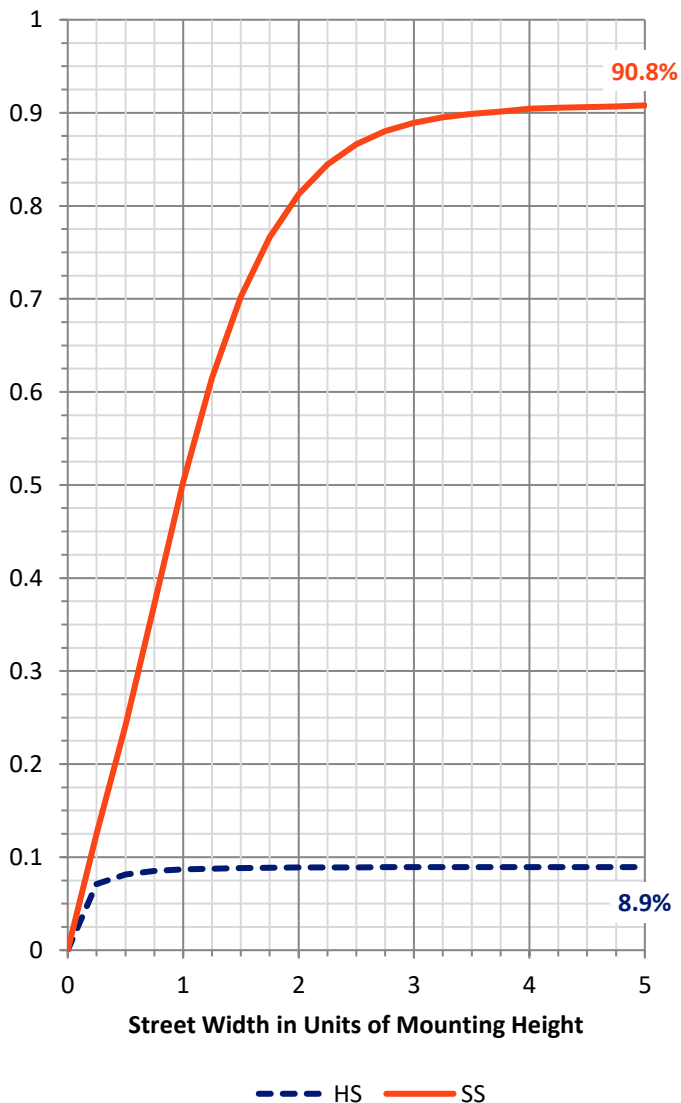
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 511.8 | 0.0 | 511.8 |
| | % Fixture | 9.0 | 0.0 | 9.0 |
| Street Side | Lumens | 5186.0 | 0.0 | 5186.0 |
| | % Fixture | 91.0 | 0.0 | 91.0 |
| Total | Lumens | 5697.8 | 0.0 | 5697.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.7 | 1.5 |
| 10°-20° | 195.1 | 3.4 |
| 20°-30° | 313.0 | 5.5 |
| 30°-40° | 542.9 | 9.5 |
| 40°-50° | 905.3 | 15.9 |
| 50°-60° | 1323.9 | 23.2 |
| 60°-70° | 1543.6 | 27.1 |
| 70°-80° | 749.1 | 13.1 |
| 80°-90° | 39.2 | 0.7 |
| 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° | 5697.8 | 100.0 |
| 0°-180° | 5697.8 | 100.0 |



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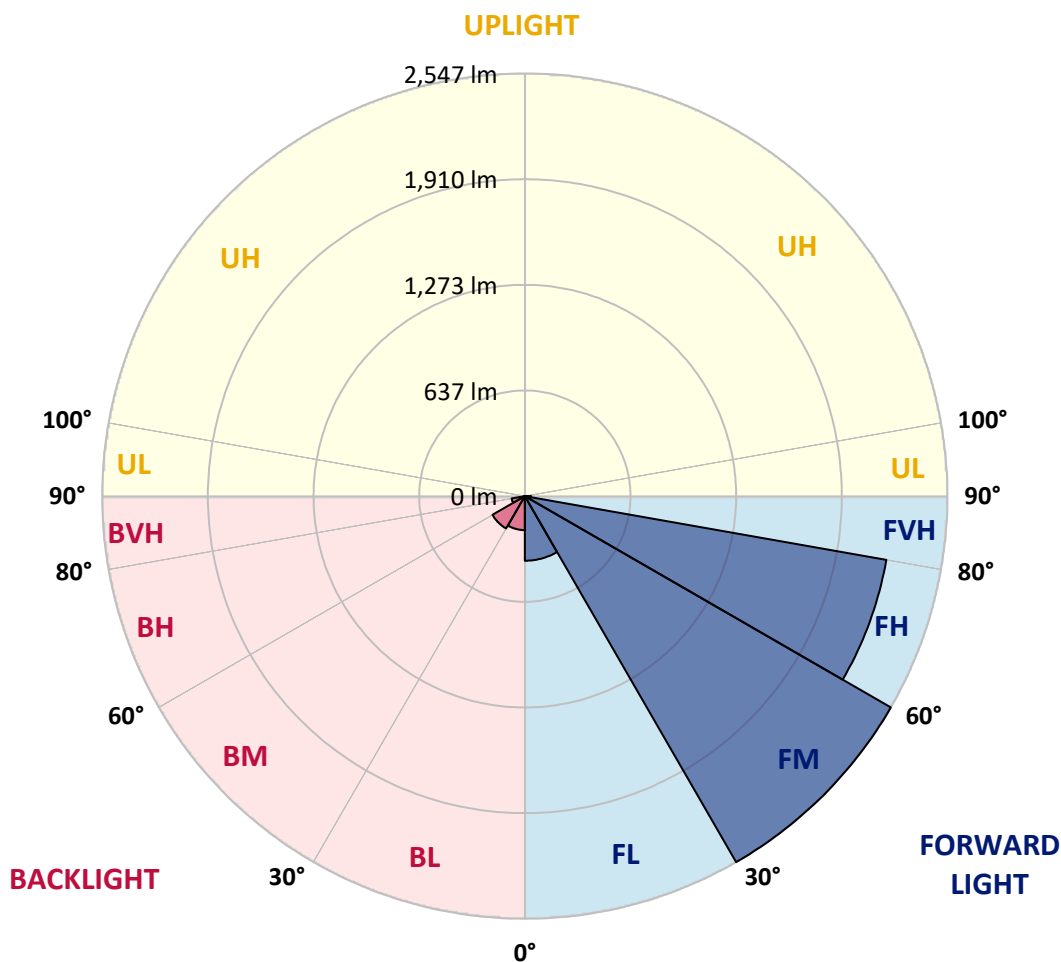
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 389.2 | 6.8 | | | |
| FM (30°-60°) | 2546.8 | 44.7 | | | |
| FH (60°-80°) | 2212.0 | 38.8 | | | G2/5000 |
| FVH (80°-90°) | 38.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 204.6 | 3.6 | B1/500 | | |
| BM (30°-60°) | 225.3 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 80.7 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 |
| 2.5° | 901.4 | 907.2 | 914.5 | 917.1 | 926.1 | 938.7 | 935.0 | 932.4 | 946.5 | 966.0 | 972.3 |
| 5° | 845.2 | 845.7 | 857.3 | 865.7 | 880.9 | 893.0 | 906.1 | 905.1 | 930.8 | 963.9 | 984.9 |
| 7.5° | 790.1 | 791.1 | 803.2 | 816.3 | 838.4 | 862.0 | 882.0 | 880.9 | 922.4 | 966.5 | 1006.4 |
| 10° | 717.6 | 722.9 | 737.6 | 760.7 | 795.3 | 832.6 | 860.4 | 863.1 | 912.9 | 976.5 | 1035.8 |
| 12.5° | 659.4 | 662.0 | 678.3 | 708.2 | 749.1 | 798.0 | 849.9 | 848.4 | 915.0 | 994.8 | 1074.1 |
| 15° | 634.7 | 633.1 | 643.1 | 665.1 | 711.9 | 773.3 | 839.4 | 843.1 | 922.4 | 1015.8 | 1114.0 |
| 17.5° | 640.5 | 638.9 | 644.1 | 652.0 | 685.1 | 752.8 | 833.7 | 840.0 | 933.9 | 1037.9 | 1151.3 |
| 20° | 704.5 | 693.5 | 684.0 | 675.6 | 680.4 | 736.0 | 830.0 | 836.8 | 940.8 | 1054.7 | 1190.6 |
| 22.5° | 827.9 | 814.2 | 789.0 | 742.3 | 711.3 | 737.1 | 831.0 | 840.0 | 956.0 | 1082.0 | 1238.4 |
| 25° | 1029.0 | 1015.8 | 961.8 | 866.2 | 784.3 | 774.9 | 845.2 | 854.7 | 991.2 | 1123.4 | 1289.3 |
| 27.5° | 1295.1 | 1265.7 | 1200.1 | 1063.1 | 905.1 | 835.2 | 887.7 | 898.2 | 1041.0 | 1155.5 | 1324.0 |
| 30° | 1516.1 | 1509.3 | 1446.3 | 1278.3 | 1071.5 | 924.0 | 935.5 | 941.3 | 1063.6 | 1174.9 | 1358.6 |
| 32.5° | 1745.5 | 1731.4 | 1673.6 | 1510.4 | 1264.7 | 1050.5 | 989.1 | 991.7 | 1093.0 | 1203.8 | 1409.0 |
| 35° | 1945.0 | 1931.9 | 1883.6 | 1725.1 | 1490.4 | 1220.6 | 1077.8 | 1072.0 | 1153.9 | 1267.3 | 1477.3 |
| 37.5° | 2129.8 | 2128.2 | 2085.7 | 1924.0 | 1693.0 | 1397.0 | 1208.5 | 1203.8 | 1248.9 | 1337.1 | 1569.7 |
| 40° | 2310.4 | 2306.2 | 2270.0 | 2122.5 | 1892.5 | 1572.8 | 1332.9 | 1320.8 | 1329.8 | 1434.8 | 1691.5 |
| 42.5° | 2421.2 | 2430.1 | 2442.7 | 2349.3 | 2129.3 | 1779.1 | 1490.4 | 1483.1 | 1481.5 | 1587.5 | 1851.6 |
| 45° | 2481.0 | 2496.8 | 2570.8 | 2562.4 | 2380.2 | 2035.9 | 1714.6 | 1695.7 | 1689.4 | 1797.5 | 2034.8 |
| 47.5° | 2539.3 | 2546.1 | 2667.4 | 2718.3 | 2620.7 | 2303.6 | 1985.5 | 1959.2 | 1933.5 | 2053.7 | 2253.7 |
| 50° | 2543.0 | 2554.0 | 2704.1 | 2828.0 | 2822.3 | 2567.1 | 2289.4 | 2266.3 | 2236.9 | 2365.5 | 2467.4 |
| 52.5° | 2491.5 | 2513.6 | 2699.4 | 2897.3 | 2947.2 | 2799.7 | 2604.9 | 2586.0 | 2561.9 | 2658.0 | 2647.5 |
| 55° | 2136.1 | 2173.4 | 2607.0 | 2903.6 | 3034.9 | 2999.2 | 2922.0 | 2895.8 | 2872.1 | 2940.4 | 2823.8 |
| 57.5° | 1967.1 | 1988.1 | 2326.7 | 2898.9 | 3146.7 | 3184.0 | 3197.1 | 3185.0 | 3152.0 | 3237.0 | 3008.1 |
| 60° | 1865.8 | 1896.2 | 2192.8 | 2846.4 | 3267.4 | 3392.9 | 3475.3 | 3451.2 | 3410.8 | 3527.8 | 3205.5 |
| 62.5° | 1744.5 | 1766.5 | 2059.5 | 2695.2 | 3339.4 | 3605.5 | 3736.2 | 3714.2 | 3630.7 | 3796.1 | 3365.1 |
| 65° | 1520.9 | 1553.9 | 1847.4 | 2457.4 | 3242.8 | 3761.4 | 3981.9 | 3974.6 | 3829.7 | 3998.7 | 3408.7 |
| 67.5° | 1237.9 | 1267.8 | 1541.3 | 2131.4 | 2960.3 | 3703.2 | 4121.1 | 4098.0 | 3920.0 | 4014.0 | 3270.6 |
| 70° | 929.2 | 945.5 | 1151.8 | 1628.5 | 2425.4 | 3391.9 | 4020.3 | 4015.5 | 3783.0 | 3788.2 | 2846.9 |
| 72.5° | 498.7 | 543.9 | 765.9 | 1089.8 | 1705.6 | 2747.2 | 3583.0 | 3564.1 | 3375.1 | 3102.6 | 2047.4 |
| 75° | 174.3 | 187.4 | 407.9 | 612.1 | 926.6 | 1830.1 | 2755.1 | 2711.0 | 2524.1 | 2018.0 | 1115.6 |
| 77.5° | 107.1 | 117.6 | 181.1 | 312.9 | 360.7 | 794.3 | 1655.2 | 1598.0 | 1477.3 | 872.5 | 381.1 |
| 80° | 74.0 | 83.5 | 121.3 | 163.8 | 122.8 | 257.2 | 761.7 | 740.2 | 569.6 | 207.9 | 87.7 |
| 82.5° | 41.5 | 49.9 | 91.9 | 80.3 | 49.3 | 66.7 | 264.1 | 244.6 | 151.7 | 56.2 | 29.4 |
| 85° | 24.1 | 28.9 | 64.6 | 56.7 | 25.2 | 23.6 | 68.8 | 61.4 | 39.4 | 21.0 | 14.2 |
| 87.5° | 12.6 | 16.3 | 47.2 | 37.8 | 15.2 | 8.4 | 15.7 | 15.2 | 10.0 | 7.3 | 9.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|
| 0° | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 | 976.5 |
| 2.5° | 983.8 | 981.2 | 994.8 | 999.6 | 998.5 | 996.4 | 1001.7 | 994.8 | 994.3 | 992.7 | 991.2 |
| 5° | 1001.7 | 1005.9 | 1016.9 | 1016.9 | 1002.2 | 978.0 | 963.3 | 943.4 | 926.6 | 916.6 | 915.0 |
| 7.5° | 1028.4 | 1036.8 | 1044.2 | 1021.6 | 971.2 | 911.4 | 847.8 | 798.0 | 754.4 | 731.8 | 729.7 |
| 10° | 1066.2 | 1074.1 | 1068.3 | 1003.8 | 895.6 | 771.7 | 668.3 | 564.3 | 512.4 | 484.0 | 484.0 |
| 12.5° | 1111.4 | 1117.7 | 1082.5 | 959.1 | 771.2 | 591.6 | 453.6 | 344.4 | 292.4 | 258.8 | 256.7 |
| 15° | 1160.2 | 1161.8 | 1080.4 | 881.4 | 617.4 | 397.4 | 260.4 | 191.1 | 169.0 | 164.3 | 163.3 |
| 17.5° | 1202.7 | 1196.4 | 1058.4 | 766.5 | 444.7 | 236.8 | 165.4 | 149.6 | 145.4 | 145.4 | 145.4 |
| 20° | 1242.6 | 1221.6 | 1014.3 | 632.6 | 285.1 | 161.2 | 142.3 | 138.1 | 138.1 | 138.6 | 138.6 |
| 22.5° | 1286.7 | 1245.2 | 951.3 | 484.0 | 183.2 | 138.1 | 133.3 | 131.2 | 130.7 | 132.3 | 131.8 |
| 25° | 1338.7 | 1268.3 | 861.0 | 334.4 | 141.7 | 128.6 | 126.5 | 124.4 | 124.4 | 124.4 | 124.4 |
| 27.5° | 1367.6 | 1265.2 | 758.1 | 211.0 | 123.9 | 119.2 | 117.1 | 115.0 | 113.4 | 112.9 | 113.4 |
| 30° | 1392.8 | 1246.8 | 623.7 | 147.5 | 111.8 | 106.6 | 105.0 | 102.4 | 99.2 | 98.2 | 98.2 |
| 32.5° | 1425.8 | 1231.6 | 483.0 | 118.6 | 101.3 | 95.5 | 90.8 | 86.6 | 81.4 | 79.3 | 78.7 |
| 35° | 1462.6 | 1203.8 | 353.8 | 104.5 | 91.9 | 84.5 | 77.2 | 70.3 | 63.5 | 61.4 | 60.9 |
| 37.5° | 1508.3 | 1178.6 | 239.9 | 96.6 | 84.0 | 75.1 | 65.1 | 55.6 | 49.3 | 48.3 | 48.3 |
| 40° | 1570.2 | 1157.6 | 165.9 | 89.8 | 76.6 | 66.1 | 54.1 | 44.1 | 39.9 | 38.8 | 38.8 |
| 42.5° | 1654.7 | 1140.2 | 125.5 | 84.0 | 70.3 | 57.2 | 43.6 | 36.2 | 33.1 | 32.0 | 32.0 |
| 45° | 1754.5 | 1113.5 | 106.0 | 78.7 | 64.0 | 48.3 | 36.2 | 30.4 | 28.9 | 28.9 | 28.9 |
| 47.5° | 1868.9 | 1079.9 | 96.6 | 73.5 | 57.2 | 39.4 | 30.4 | 27.8 | 27.3 | 27.3 | 27.8 |
| 50° | 1984.4 | 1040.0 | 89.8 | 67.2 | 49.3 | 33.6 | 27.8 | 26.2 | 26.2 | 26.8 | 26.8 |
| 52.5° | 2062.6 | 977.5 | 82.9 | 60.4 | 41.5 | 29.4 | 26.2 | 25.7 | 25.2 | 25.2 | 25.2 |
| 55° | 2138.7 | 922.9 | 73.5 | 53.0 | 34.6 | 27.3 | 25.2 | 24.7 | 24.7 | 24.1 | 24.1 |
| 57.5° | 2218.0 | 879.9 | 61.4 | 44.1 | 29.4 | 25.7 | 24.1 | 24.1 | 23.1 | 22.6 | 22.6 |
| 60° | 2309.9 | 842.1 | 47.2 | 34.6 | 25.7 | 24.1 | 22.6 | 22.0 | 21.0 | 19.9 | 19.9 |
| 62.5° | 2336.7 | 762.3 | 35.7 | 27.8 | 22.0 | 21.0 | 20.5 | 19.4 | 16.8 | 14.7 | 15.2 |
| 65° | 2266.8 | 636.8 | 28.3 | 22.0 | 17.8 | 17.8 | 16.3 | 13.6 | 11.0 | 9.4 | 9.4 |
| 67.5° | 2074.2 | 475.6 | 23.1 | 17.3 | 14.2 | 13.6 | 11.5 | 10.0 | 6.8 | 5.8 | 5.8 |
| 70° | 1709.3 | 314.5 | 18.9 | 13.6 | 11.5 | 9.4 | 7.9 | 7.3 | 5.2 | 4.2 | 4.2 |
| 72.5° | 1198.0 | 170.6 | 15.7 | 11.0 | 8.4 | 6.3 | 5.2 | 4.7 | 3.7 | 3.1 | 2.6 |
| 75° | 632.6 | 65.6 | 12.6 | 8.4 | 5.2 | 4.2 | 3.1 | 3.1 | 2.6 | 2.1 | 2.1 |
| 77.5° | 216.8 | 27.8 | 8.9 | 4.7 | 3.7 | 2.6 | 2.1 | 1.6 | 2.1 | 1.6 | 1.6 |
| 80° | 51.4 | 16.3 | 5.8 | 3.1 | 2.1 | 1.6 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 22.6 | 9.4 | 3.7 | 2.1 | 2.1 | 1.6 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 15.2 | 5.8 | 2.6 | 2.1 | 1.6 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.1 | 3.7 | 2.1 | 2.1 | 1.6 | 1.0 | 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)