

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: P676268

Luminaire Tested: **CCW-SA-1F-735-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676268
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-735-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

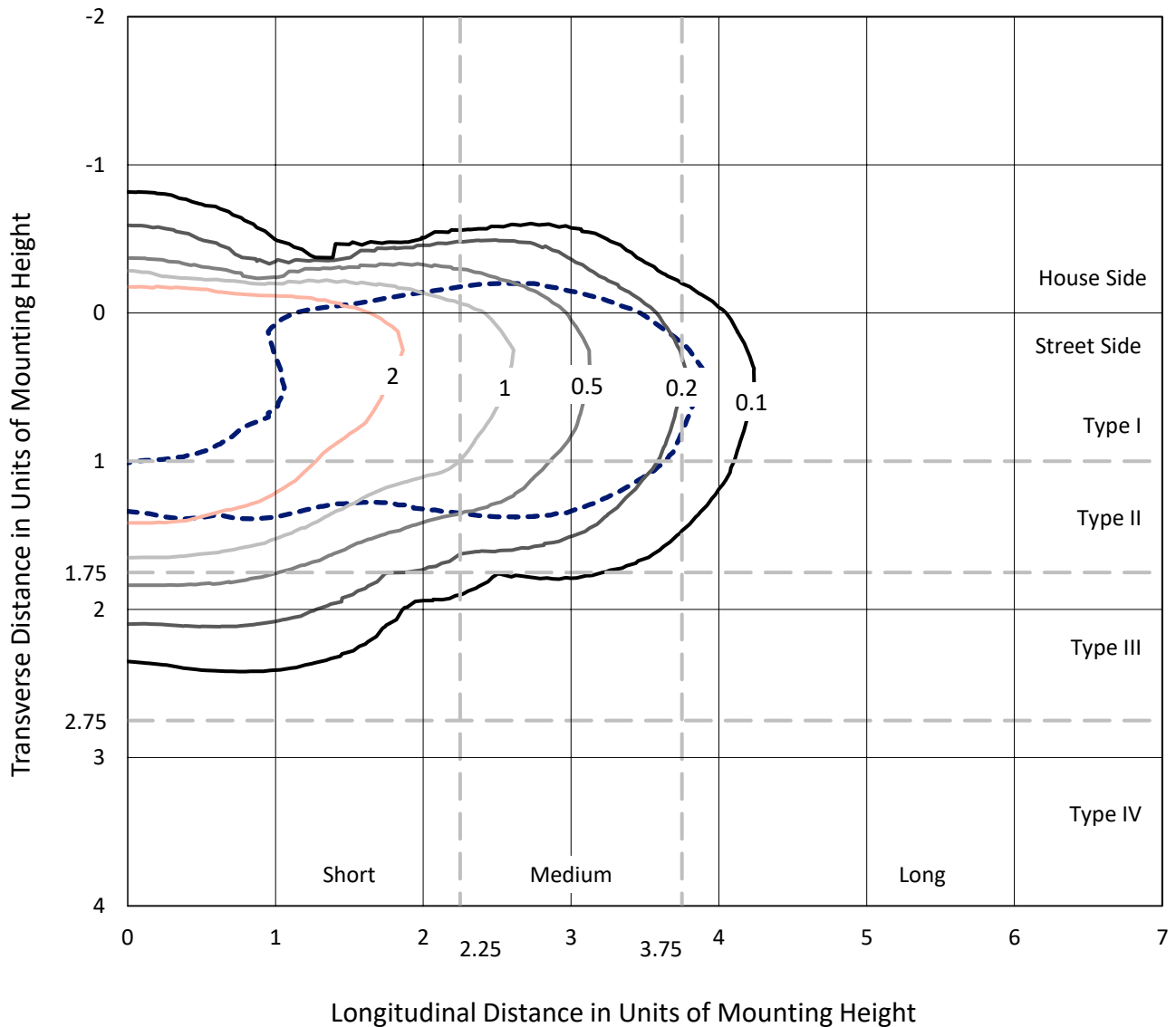
Lumens per Lamp: N/A
Luminaire Lumens: 5709.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

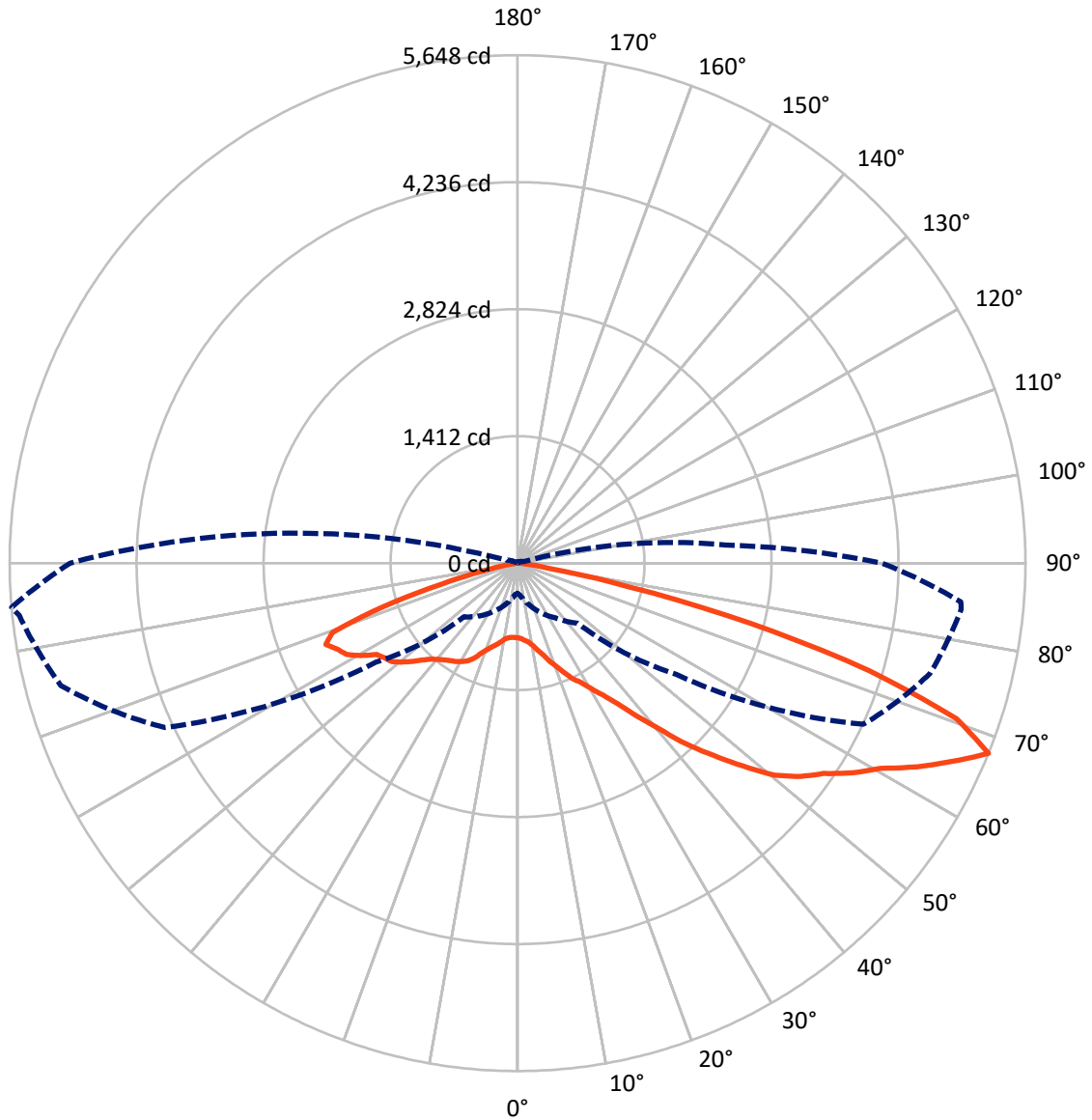
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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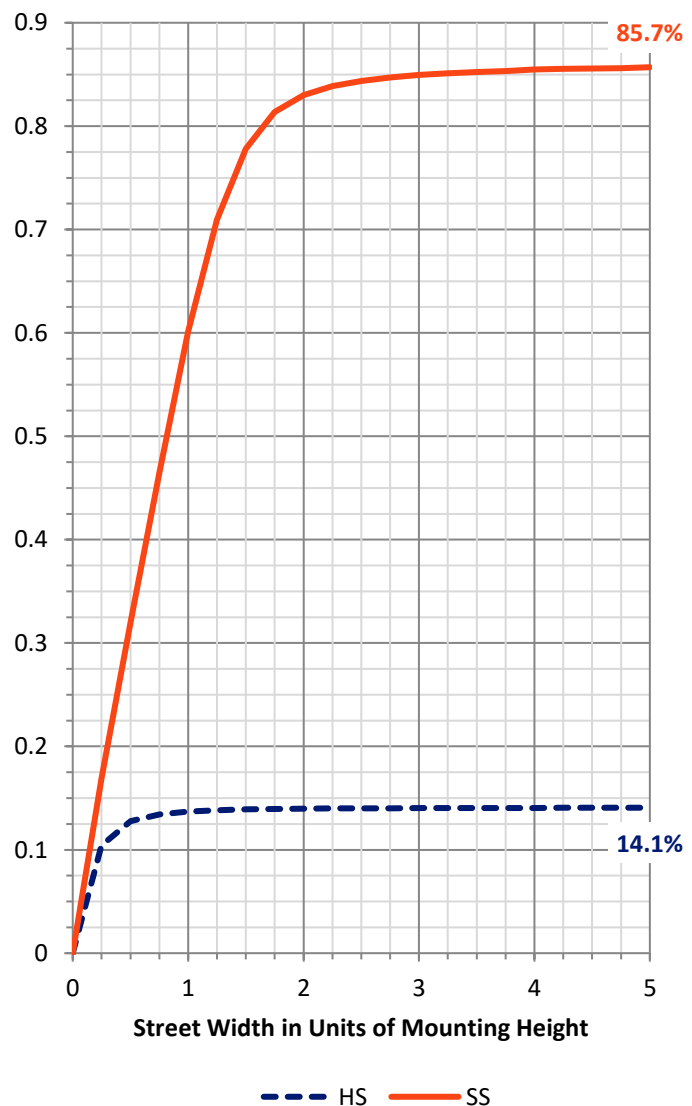
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 811.1 | 0.0 | 811.1 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 4898.1 | 0.0 | 4898.1 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 5709.2 | 0.0 | 5709.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.7 | 1.3 |
| 10°-20° | 203.6 | 3.6 |
| 20°-30° | 338.1 | 5.9 |
| 30°-40° | 581.6 | 10.2 |
| 40°-50° | 1045.2 | 18.3 |
| 50°-60° | 1487.9 | 26.1 |
| 60°-70° | 1356.5 | 23.8 |
| 70°-80° | 577.6 | 10.1 |
| 80°-90° | 43.0 | 0.8 |
| 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° | 5709.2 | 100.0 |
| 0°-180° | 5709.2 | 100.0 |



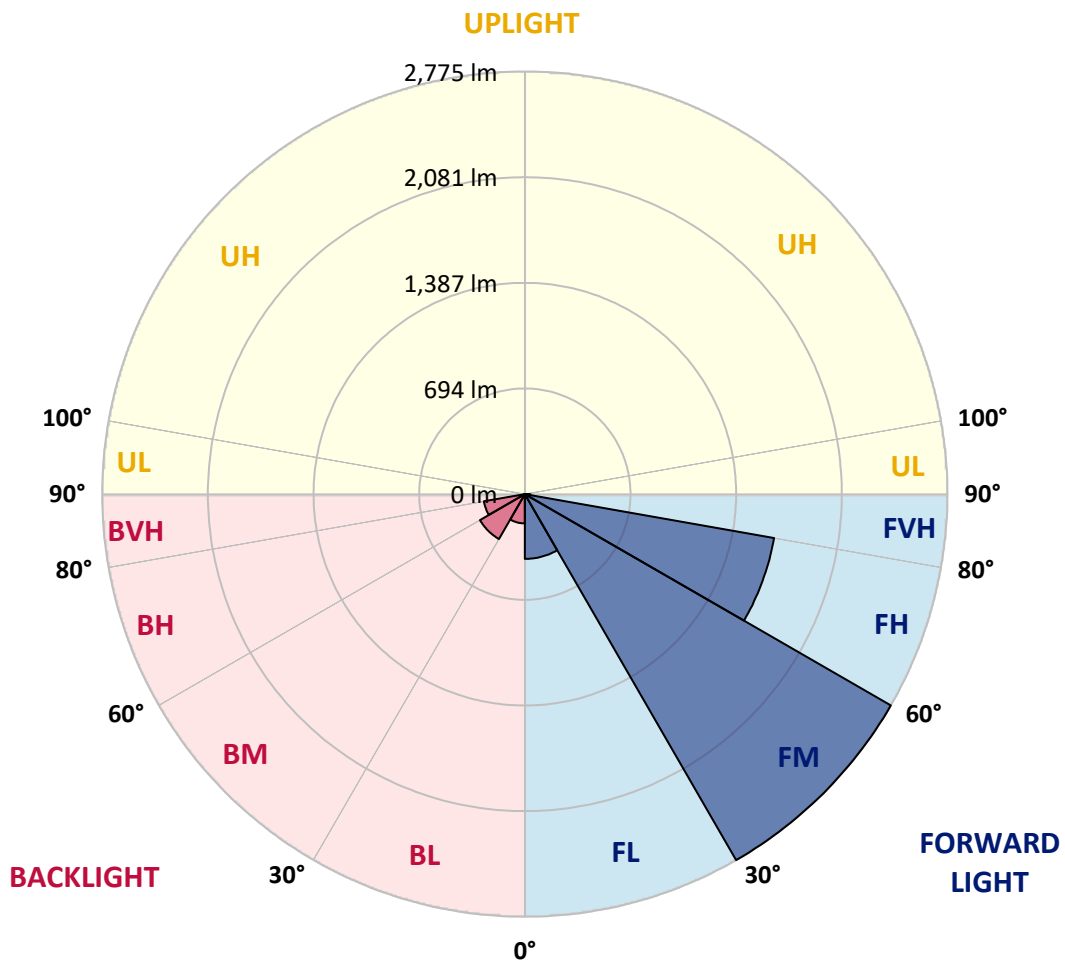
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 425.3 | 7.4 | | | |
| FM (30°-60°) | 2774.7 | 48.6 | | | |
| FH (60°-80°) | 1661.6 | 29.1 | | | G1/1800 |
| FVH (80°-90°) | 36.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 192.0 | 3.4 | B1/500 | | |
| BM (30°-60°) | 340.1 | 6.0 | B1/1000 | | |
| BH (60°-80°) | 272.5 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.5 | 0.1 | | | 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° | 55° | 65° | 75° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 |
| 2.5° | 860.1 | 868.3 | 868.3 | 865.6 | 857.4 | 852.0 | 849.3 | 843.8 | 838.4 | 838.4 | 841.1 |
| 5° | 868.3 | 860.1 | 871.0 | 857.4 | 857.4 | 857.4 | 868.3 | 862.9 | 860.1 | 846.5 | 846.5 |
| 7.5° | 868.3 | 860.1 | 860.1 | 868.3 | 860.1 | 865.6 | 879.2 | 873.8 | 884.6 | 860.1 | 865.6 |
| 10° | 843.8 | 841.1 | 846.5 | 857.4 | 860.1 | 871.0 | 884.6 | 911.9 | 914.6 | 898.2 | 895.5 |
| 12.5° | 794.8 | 792.1 | 811.1 | 816.6 | 849.3 | 876.5 | 917.3 | 939.1 | 963.6 | 955.4 | 939.1 |
| 15° | 759.4 | 764.9 | 778.5 | 800.3 | 830.2 | 879.2 | 925.5 | 974.5 | 1018.0 | 1007.1 | 1001.7 |
| 17.5° | 773.0 | 770.3 | 773.0 | 786.6 | 824.8 | 873.8 | 952.7 | 1009.8 | 1072.5 | 1072.5 | 1077.9 |
| 20° | 813.9 | 822.0 | 819.3 | 811.1 | 830.2 | 871.0 | 952.7 | 1053.4 | 1156.8 | 1148.7 | 1148.7 |
| 22.5° | 884.6 | 887.4 | 871.0 | 865.6 | 862.9 | 887.4 | 969.0 | 1107.8 | 1227.6 | 1243.9 | 1238.5 |
| 25° | 958.1 | 960.9 | 955.4 | 939.1 | 917.3 | 922.7 | 999.0 | 1151.4 | 1325.6 | 1352.8 | 1347.4 |
| 27.5° | 1080.6 | 1077.9 | 1064.3 | 1045.2 | 1012.6 | 988.1 | 1045.2 | 1184.1 | 1401.8 | 1448.1 | 1434.5 |
| 30° | 1203.1 | 1194.9 | 1175.9 | 1151.4 | 1121.5 | 1075.2 | 1102.4 | 1246.7 | 1497.1 | 1540.6 | 1510.7 |
| 32.5° | 1352.8 | 1336.5 | 1341.9 | 1303.8 | 1241.2 | 1167.7 | 1162.3 | 1303.8 | 1573.3 | 1635.9 | 1611.4 |
| 35° | 1543.4 | 1524.3 | 1497.1 | 1461.7 | 1401.8 | 1303.8 | 1273.9 | 1396.4 | 1701.2 | 1747.5 | 1747.5 |
| 37.5° | 1793.8 | 1812.8 | 1780.2 | 1633.2 | 1567.9 | 1475.3 | 1412.7 | 1491.6 | 1812.8 | 1924.4 | 1897.2 |
| 40° | 2049.6 | 2066.0 | 2006.1 | 1897.2 | 1755.7 | 1641.3 | 1603.2 | 1646.8 | 1981.6 | 2115.0 | 2063.3 |
| 42.5° | 2256.5 | 2278.3 | 2256.5 | 2115.0 | 2003.4 | 1856.4 | 1788.3 | 1829.2 | 2199.3 | 2359.9 | 2291.9 |
| 45° | 2474.3 | 2496.0 | 2471.5 | 2379.0 | 2270.1 | 2185.7 | 2014.3 | 2066.0 | 2428.0 | 2667.5 | 2591.3 |
| 47.5° | 2637.6 | 2664.8 | 2621.3 | 2602.2 | 2515.1 | 2501.5 | 2210.2 | 2267.4 | 2667.5 | 2977.8 | 2882.6 |
| 50° | 2675.7 | 2705.6 | 2743.7 | 2765.5 | 2735.6 | 2768.2 | 2474.3 | 2523.3 | 2917.9 | 3263.6 | 3171.1 |
| 52.5° | 2585.9 | 2615.8 | 2700.2 | 2800.9 | 2939.7 | 3037.7 | 2741.0 | 2781.9 | 3179.3 | 3500.4 | 3451.5 |
| 55° | 2321.8 | 2349.1 | 2520.5 | 2656.6 | 2988.7 | 3149.3 | 2996.9 | 3168.4 | 3367.1 | 3748.1 | 3628.4 |
| 57.5° | 1878.2 | 1910.8 | 2136.7 | 2346.3 | 2825.4 | 3086.7 | 3149.3 | 3489.6 | 3677.4 | 3930.5 | 3791.7 |
| 60° | 1333.8 | 1352.8 | 1548.8 | 1919.0 | 2373.6 | 2773.7 | 3119.4 | 3729.1 | 3922.4 | 4175.5 | 4102.0 |
| 62.5° | 767.6 | 783.9 | 988.1 | 1336.5 | 1791.1 | 2316.4 | 2986.0 | 3955.0 | 4186.4 | 4445.0 | 4404.1 |
| 65° | 509.0 | 514.5 | 653.3 | 843.8 | 1165.0 | 1706.7 | 2648.5 | 4156.4 | 4447.7 | 4660.0 | 4613.7 |
| 67.5° | 334.8 | 364.7 | 473.6 | 604.3 | 745.8 | 944.5 | 2158.5 | 4240.8 | 4747.1 | 4959.4 | 4948.5 |
| 70° | 239.5 | 250.4 | 340.2 | 465.5 | 560.7 | 530.8 | 1263.0 | 3644.7 | 4733.5 | 5041.1 | 4951.3 |
| 72.5° | 141.5 | 152.4 | 225.9 | 348.4 | 441.0 | 337.5 | 590.7 | 2577.7 | 3922.4 | 4023.1 | 3998.6 |
| 75° | 103.4 | 103.4 | 138.8 | 250.4 | 321.2 | 242.3 | 277.6 | 1630.5 | 2604.9 | 2828.1 | 2825.4 |
| 77.5° | 73.5 | 76.2 | 95.3 | 149.7 | 247.7 | 176.9 | 152.4 | 906.4 | 1423.6 | 1557.0 | 1483.5 |
| 80° | 43.6 | 46.3 | 65.3 | 89.8 | 179.6 | 127.9 | 100.7 | 413.7 | 547.1 | 552.6 | 525.3 |
| 82.5° | 32.7 | 32.7 | 43.6 | 62.6 | 125.2 | 87.1 | 62.6 | 157.9 | 176.9 | 160.6 | 136.1 |
| 85° | 19.1 | 16.3 | 32.7 | 46.3 | 73.5 | 49.0 | 43.6 | 73.5 | 81.7 | 59.9 | 54.4 |
| 87.5° | 5.4 | 5.4 | 13.6 | 16.3 | 32.7 | 27.2 | 19.1 | 27.2 | 38.1 | 21.8 | 16.3 |
| 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° | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 |
| 2.5° | 835.6 | 827.5 | 813.9 | 808.4 | 789.4 | 781.2 | 775.8 | 762.2 | 764.9 | 756.7 | 756.7 |
| 5° | 827.5 | 827.5 | 800.3 | 770.3 | 740.4 | 721.3 | 699.5 | 672.3 | 672.3 | 661.4 | 664.2 |
| 7.5° | 857.4 | 835.6 | 800.3 | 745.8 | 696.8 | 653.3 | 634.2 | 607.0 | 590.7 | 582.5 | 582.5 |
| 10° | 876.5 | 854.7 | 794.8 | 729.5 | 666.9 | 612.4 | 571.6 | 533.5 | 511.7 | 511.7 | 509.0 |
| 12.5° | 928.2 | 895.5 | 816.6 | 726.8 | 634.2 | 552.6 | 490.0 | 446.4 | 416.5 | 394.7 | 400.1 |
| 15° | 971.7 | 936.4 | 827.5 | 705.0 | 577.1 | 462.7 | 386.5 | 304.9 | 264.0 | 242.3 | 234.1 |
| 17.5° | 1039.8 | 974.5 | 852.0 | 666.9 | 490.0 | 362.0 | 250.4 | 182.4 | 166.0 | 163.3 | 163.3 |
| 20° | 1097.0 | 1020.7 | 854.7 | 593.4 | 402.9 | 231.4 | 160.6 | 149.7 | 141.5 | 138.8 | 136.1 |
| 22.5° | 1175.9 | 1080.6 | 843.8 | 509.0 | 288.5 | 155.2 | 136.1 | 125.2 | 119.8 | 111.6 | 111.6 |
| 25° | 1257.5 | 1159.6 | 822.0 | 430.1 | 176.9 | 133.4 | 119.8 | 108.9 | 98.0 | 92.5 | 95.3 |
| 27.5° | 1344.7 | 1219.4 | 759.4 | 334.8 | 136.1 | 117.0 | 98.0 | 89.8 | 84.4 | 81.7 | 81.7 |
| 30° | 1415.4 | 1257.5 | 666.9 | 223.2 | 122.5 | 103.4 | 87.1 | 78.9 | 73.5 | 70.8 | 70.8 |
| 32.5° | 1467.1 | 1290.2 | 563.4 | 149.7 | 111.6 | 92.5 | 78.9 | 70.8 | 65.3 | 62.6 | 62.6 |
| 35° | 1554.2 | 1314.7 | 468.2 | 127.9 | 100.7 | 81.7 | 68.0 | 62.6 | 57.2 | 57.2 | 57.2 |
| 37.5° | 1687.6 | 1347.4 | 372.9 | 117.0 | 92.5 | 73.5 | 65.3 | 57.2 | 54.4 | 51.7 | 51.7 |
| 40° | 1804.7 | 1388.2 | 266.8 | 106.2 | 84.4 | 68.0 | 57.2 | 51.7 | 49.0 | 46.3 | 46.3 |
| 42.5° | 1973.4 | 1434.5 | 174.2 | 95.3 | 76.2 | 62.6 | 51.7 | 46.3 | 43.6 | 40.8 | 40.8 |
| 45° | 2188.5 | 1510.7 | 136.1 | 84.4 | 68.0 | 57.2 | 49.0 | 43.6 | 38.1 | 38.1 | 35.4 |
| 47.5° | 2417.1 | 1603.2 | 122.5 | 78.9 | 62.6 | 51.7 | 43.6 | 38.1 | 35.4 | 32.7 | 32.7 |
| 50° | 2629.4 | 1693.1 | 114.3 | 73.5 | 57.2 | 49.0 | 40.8 | 35.4 | 29.9 | 27.2 | 27.2 |
| 52.5° | 2820.0 | 1777.4 | 108.9 | 68.0 | 54.4 | 43.6 | 35.4 | 29.9 | 27.2 | 24.5 | 24.5 |
| 55° | 2920.7 | 1815.6 | 106.2 | 65.3 | 49.0 | 40.8 | 32.7 | 27.2 | 24.5 | 21.8 | 21.8 |
| 57.5° | 3078.5 | 1864.5 | 103.4 | 62.6 | 46.3 | 35.4 | 29.9 | 24.5 | 21.8 | 19.1 | 19.1 |
| 60° | 3334.4 | 2025.1 | 100.7 | 59.9 | 43.6 | 35.4 | 27.2 | 21.8 | 16.3 | 13.6 | 13.6 |
| 62.5° | 3546.7 | 2158.5 | 89.8 | 51.7 | 38.1 | 29.9 | 21.8 | 16.3 | 10.9 | 8.2 | 8.2 |
| 65° | 3789.0 | 2221.1 | 78.9 | 46.3 | 32.7 | 24.5 | 16.3 | 10.9 | 8.2 | 2.7 | 2.7 |
| 67.5° | 4053.0 | 2316.4 | 65.3 | 40.8 | 29.9 | 19.1 | 13.6 | 8.2 | 2.7 | 0.0 | 0.0 |
| 70° | 3914.2 | 2196.6 | 54.4 | 35.4 | 27.2 | 16.3 | 10.9 | 5.4 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3067.7 | 1573.3 | 43.6 | 32.7 | 24.5 | 16.3 | 10.9 | 2.7 | 0.0 | 0.0 | 0.0 |
| 75° | 2049.6 | 890.1 | 38.1 | 27.2 | 19.1 | 13.6 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1113.3 | 400.1 | 32.7 | 24.5 | 16.3 | 10.9 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 80° | 362.0 | 157.9 | 27.2 | 21.8 | 16.3 | 10.9 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 98.0 | 49.0 | 27.2 | 21.8 | 16.3 | 10.9 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 85° | 40.8 | 32.7 | 27.2 | 21.8 | 16.3 | 10.9 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.3 | 10.9 | 10.9 | 13.6 | 10.9 | 8.2 | 5.4 | 2.7 | 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 |
| 2.5° | 759.4 | 764.9 | 767.6 | 767.6 | 781.2 | 794.8 | 811.1 | 824.8 | 824.8 | 832.9 | 841.1 |
| 5° | 666.9 | 672.3 | 680.5 | 705.0 | 732.2 | 762.2 | 792.1 | 813.9 | 843.8 | 857.4 | 865.6 |
| 7.5° | 590.7 | 596.1 | 617.9 | 642.4 | 680.5 | 732.2 | 783.9 | 832.9 | 862.9 | 876.5 | 887.4 |
| 10° | 511.7 | 519.9 | 544.4 | 587.9 | 636.9 | 699.5 | 759.4 | 843.8 | 892.8 | 920.0 | 930.9 |
| 12.5° | 397.4 | 419.2 | 451.8 | 498.1 | 560.7 | 656.0 | 767.6 | 854.7 | 939.1 | 971.7 | 993.5 |
| 15° | 250.4 | 269.5 | 321.2 | 394.7 | 479.1 | 590.7 | 745.8 | 871.0 | 988.1 | 1020.7 | 1056.1 |
| 17.5° | 160.6 | 163.3 | 179.6 | 258.6 | 367.5 | 509.0 | 713.2 | 895.5 | 1042.5 | 1088.8 | 1143.2 |
| 20° | 136.1 | 141.5 | 144.3 | 155.2 | 245.0 | 419.2 | 645.1 | 925.5 | 1107.8 | 1170.4 | 1222.2 |
| 22.5° | 114.3 | 117.0 | 122.5 | 130.7 | 147.0 | 304.9 | 552.6 | 925.5 | 1165.0 | 1257.5 | 1317.4 |
| 25° | 92.5 | 98.0 | 103.4 | 111.6 | 127.9 | 190.5 | 457.3 | 909.1 | 1233.1 | 1347.4 | 1423.6 |
| 27.5° | 81.7 | 81.7 | 87.1 | 95.3 | 108.9 | 133.4 | 362.0 | 860.1 | 1284.8 | 1401.8 | 1502.5 |
| 30° | 70.8 | 73.5 | 76.2 | 84.4 | 98.0 | 117.0 | 250.4 | 781.2 | 1339.2 | 1508.0 | 1622.3 |
| 32.5° | 62.6 | 62.6 | 68.0 | 73.5 | 87.1 | 106.2 | 160.6 | 661.4 | 1410.0 | 1589.6 | 1750.2 |
| 35° | 57.2 | 57.2 | 59.9 | 65.3 | 78.9 | 95.3 | 125.2 | 560.7 | 1494.4 | 1744.8 | 1921.7 |
| 37.5° | 51.7 | 51.7 | 54.4 | 59.9 | 70.8 | 84.4 | 114.3 | 481.8 | 1581.5 | 1899.9 | 2158.5 |
| 40° | 46.3 | 46.3 | 49.0 | 54.4 | 62.6 | 76.2 | 103.4 | 389.2 | 1690.3 | 2128.6 | 2417.1 |
| 42.5° | 40.8 | 40.8 | 43.6 | 49.0 | 57.2 | 68.0 | 89.8 | 291.3 | 1834.6 | 2376.3 | 2751.9 |
| 45° | 35.4 | 35.4 | 38.1 | 43.6 | 49.0 | 62.6 | 81.7 | 223.2 | 1992.5 | 2651.2 | 3045.9 |
| 47.5° | 29.9 | 32.7 | 35.4 | 40.8 | 46.3 | 57.2 | 73.5 | 196.0 | 2147.6 | 2942.4 | 3372.5 |
| 50° | 27.2 | 27.2 | 29.9 | 35.4 | 43.6 | 51.7 | 68.0 | 193.3 | 2305.5 | 3165.6 | 3707.3 |
| 52.5° | 24.5 | 24.5 | 27.2 | 32.7 | 40.8 | 49.0 | 65.3 | 198.7 | 2436.2 | 3372.5 | 3941.4 |
| 55° | 21.8 | 21.8 | 24.5 | 27.2 | 35.4 | 46.3 | 59.9 | 204.1 | 2528.7 | 3582.1 | 4129.2 |
| 57.5° | 19.1 | 19.1 | 21.8 | 27.2 | 32.7 | 40.8 | 54.4 | 209.6 | 2678.4 | 3789.0 | 4401.4 |
| 60° | 13.6 | 13.6 | 19.1 | 24.5 | 29.9 | 35.4 | 51.7 | 215.0 | 2917.9 | 4074.8 | 4632.8 |
| 62.5° | 8.2 | 8.2 | 10.9 | 19.1 | 24.5 | 32.7 | 46.3 | 204.1 | 3141.1 | 4442.3 | 4986.6 |
| 65° | 2.7 | 5.4 | 8.2 | 10.9 | 19.1 | 27.2 | 38.1 | 185.1 | 3329.0 | 4809.7 | 5313.3 |
| 67.5° | 0.0 | 0.0 | 2.7 | 8.2 | 16.3 | 21.8 | 32.7 | 136.1 | 3358.9 | 4975.8 | 5648.1 |
| 70° | 0.0 | 0.0 | 2.7 | 8.2 | 13.6 | 21.8 | 29.9 | 76.2 | 2860.8 | 4445.0 | 5177.2 |
| 72.5° | 0.0 | 0.0 | 0.0 | 5.4 | 13.6 | 19.1 | 27.2 | 57.2 | 2109.5 | 3350.7 | 4091.1 |
| 75° | 0.0 | 0.0 | 0.0 | 2.7 | 10.9 | 16.3 | 24.5 | 43.6 | 1282.0 | 2234.7 | 2670.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 2.7 | 8.2 | 16.3 | 24.5 | 38.1 | 451.8 | 1064.3 | 1254.8 |
| 80° | 0.0 | 0.0 | 0.0 | 5.4 | 10.9 | 16.3 | 21.8 | 32.7 | 108.9 | 266.8 | 359.3 |
| 82.5° | 0.0 | 0.0 | 0.0 | 2.7 | 8.2 | 13.6 | 19.1 | 27.2 | 43.6 | 78.9 | 125.2 |
| 85° | 0.0 | 0.0 | 0.0 | 2.7 | 5.4 | 13.6 | 19.1 | 24.5 | 29.9 | 38.1 | 54.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 5.4 | 8.2 | 10.9 | 10.9 | 10.9 | 19.1 |
| 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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| 0° | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 | 830.2 |
| 2.5° | 838.4 | 849.3 | 854.7 | 865.6 | 871.0 | 868.3 | 865.6 | 873.8 | 868.3 | 860.1 |
| 5° | 868.3 | 868.3 | 876.5 | 879.2 | 879.2 | 871.0 | 876.5 | 873.8 | 868.3 | 868.3 |
| 7.5° | 901.0 | 914.6 | 914.6 | 898.2 | 895.5 | 890.1 | 890.1 | 868.3 | 860.1 | 868.3 |
| 10° | 933.6 | 944.5 | 947.2 | 928.2 | 903.7 | 892.8 | 879.2 | 852.0 | 838.4 | 843.8 |
| 12.5° | 1001.7 | 1001.7 | 971.7 | 950.0 | 917.3 | 879.2 | 846.5 | 808.4 | 789.4 | 794.8 |
| 15° | 1050.7 | 1061.6 | 1020.7 | 971.7 | 914.6 | 843.8 | 808.4 | 778.5 | 767.6 | 759.4 |
| 17.5° | 1145.9 | 1124.2 | 1058.8 | 988.1 | 906.4 | 832.9 | 808.4 | 781.2 | 773.0 | 773.0 |
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| 22.5° | 1339.2 | 1290.2 | 1165.0 | 1020.7 | 933.6 | 890.1 | 884.6 | 898.2 | 890.1 | 884.6 |
| 25° | 1423.6 | 1382.8 | 1200.4 | 1064.3 | 979.9 | 966.3 | 974.5 | 988.1 | 966.3 | 958.1 |
| 27.5° | 1537.9 | 1461.7 | 1268.4 | 1121.5 | 1042.5 | 1056.1 | 1083.3 | 1086.1 | 1072.5 | 1080.6 |
| 30° | 1644.1 | 1562.4 | 1320.2 | 1186.8 | 1148.7 | 1162.3 | 1203.1 | 1233.1 | 1214.0 | 1203.1 |
| 32.5° | 1796.5 | 1671.3 | 1423.6 | 1295.7 | 1282.0 | 1317.4 | 1363.7 | 1382.8 | 1358.3 | 1352.8 |
| 35° | 1957.1 | 1796.5 | 1529.7 | 1418.1 | 1442.6 | 1491.6 | 1532.5 | 1565.1 | 1527.0 | 1543.4 |
| 37.5° | 2207.5 | 1997.9 | 1709.4 | 1611.4 | 1622.3 | 1641.3 | 1717.6 | 1807.4 | 1826.4 | 1793.8 |
| 40° | 2468.8 | 2215.7 | 1875.4 | 1799.2 | 1823.7 | 1875.4 | 1965.3 | 2049.6 | 2093.2 | 2049.6 |
| 42.5° | 2771.0 | 2425.3 | 2131.3 | 2041.5 | 2066.0 | 2139.5 | 2259.2 | 2327.3 | 2321.8 | 2256.5 |
| 45° | 3143.9 | 2716.5 | 2370.8 | 2259.2 | 2349.1 | 2414.4 | 2534.2 | 2542.3 | 2490.6 | 2474.3 |
| 47.5° | 3429.7 | 2961.5 | 2629.4 | 2558.6 | 2681.1 | 2683.9 | 2711.1 | 2713.8 | 2656.6 | 2637.6 |
| 50° | 3745.4 | 3244.6 | 2917.9 | 2814.5 | 3021.4 | 2926.1 | 2852.6 | 2803.6 | 2716.5 | 2675.7 |
| 52.5° | 4055.7 | 3446.0 | 3184.7 | 3078.5 | 3293.6 | 3040.4 | 2907.1 | 2757.4 | 2629.4 | 2585.9 |
| 55° | 4221.8 | 3778.1 | 3573.9 | 3326.2 | 3353.5 | 3073.1 | 2738.3 | 2550.5 | 2332.7 | 2321.8 |
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| 62.5° | 4907.7 | 4774.3 | 4466.7 | 3201.0 | 2300.1 | 1682.2 | 1249.4 | 982.6 | 778.5 | 767.6 |
| 65° | 5316.0 | 5125.5 | 4581.1 | 2694.7 | 1521.6 | 1077.9 | 830.2 | 636.9 | 514.5 | 509.0 |
| 67.5° | 5571.9 | 5258.8 | 4325.2 | 1921.7 | 843.8 | 713.2 | 582.5 | 462.7 | 356.6 | 334.8 |
| 70° | 5209.8 | 4826.0 | 3421.5 | 1099.7 | 490.0 | 541.7 | 449.1 | 310.3 | 245.0 | 239.5 |
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| 77.5° | 1268.4 | 1148.7 | 740.4 | 147.0 | 160.6 | 236.8 | 138.8 | 84.4 | 76.2 | 73.5 |
| 80° | 386.5 | 405.6 | 302.1 | 100.7 | 119.8 | 179.6 | 84.4 | 57.2 | 46.3 | 43.6 |
| 82.5° | 130.7 | 152.4 | 136.1 | 59.9 | 81.7 | 127.9 | 57.2 | 38.1 | 32.7 | 32.7 |
| 85° | 62.6 | 76.2 | 68.0 | 38.1 | 43.6 | 62.6 | 46.3 | 29.9 | 19.1 | 19.1 |
| 87.5° | 24.5 | 35.4 | 24.5 | 16.3 | 24.5 | 32.7 | 19.1 | 13.6 | 5.4 | 5.4 |
| 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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