

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: P675337

Luminaire Tested: **CCW-SA-1F-840-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675337
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T4W distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

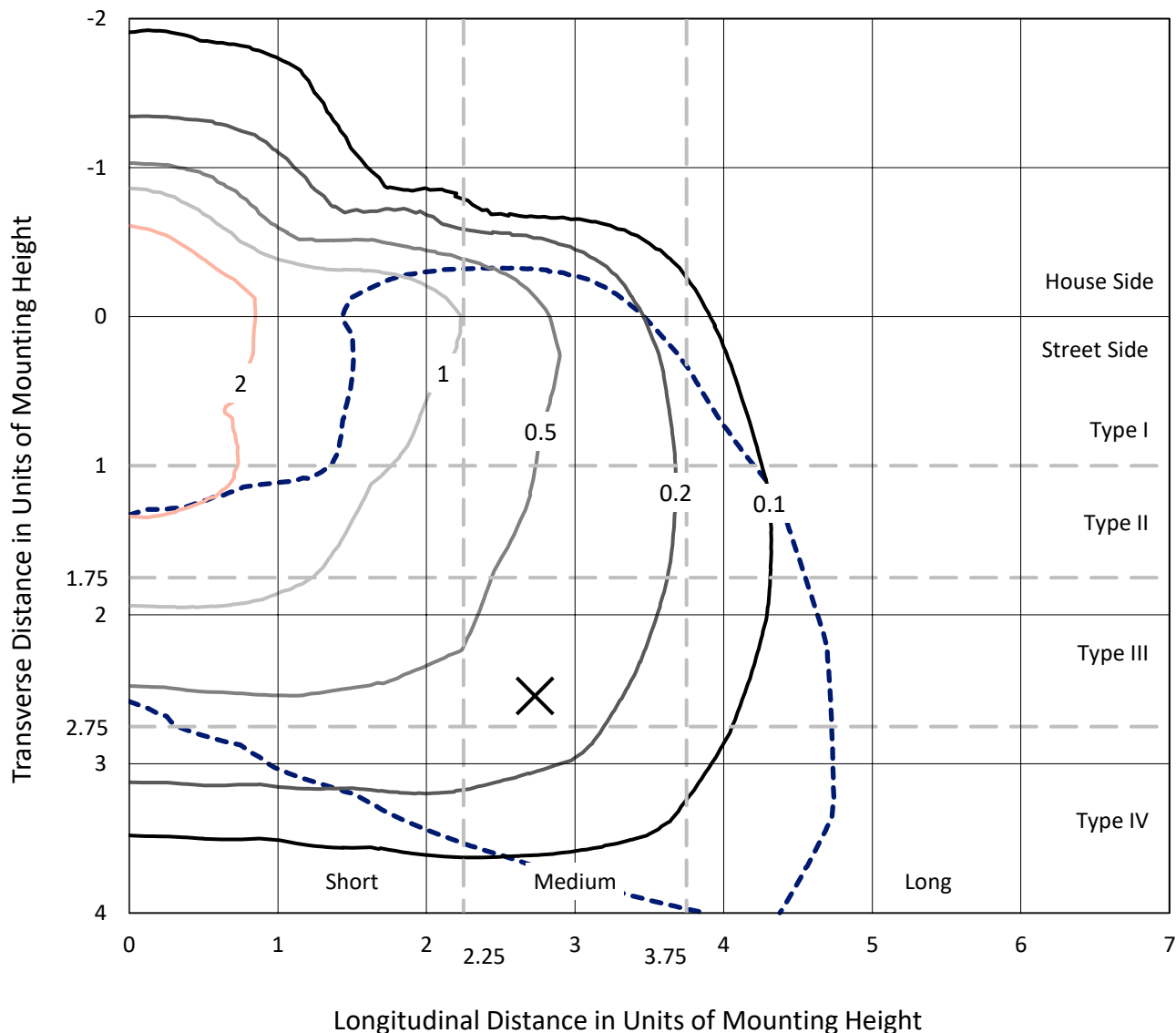
Lumens per Lamp: N/A
Luminaire Lumens: 6448.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

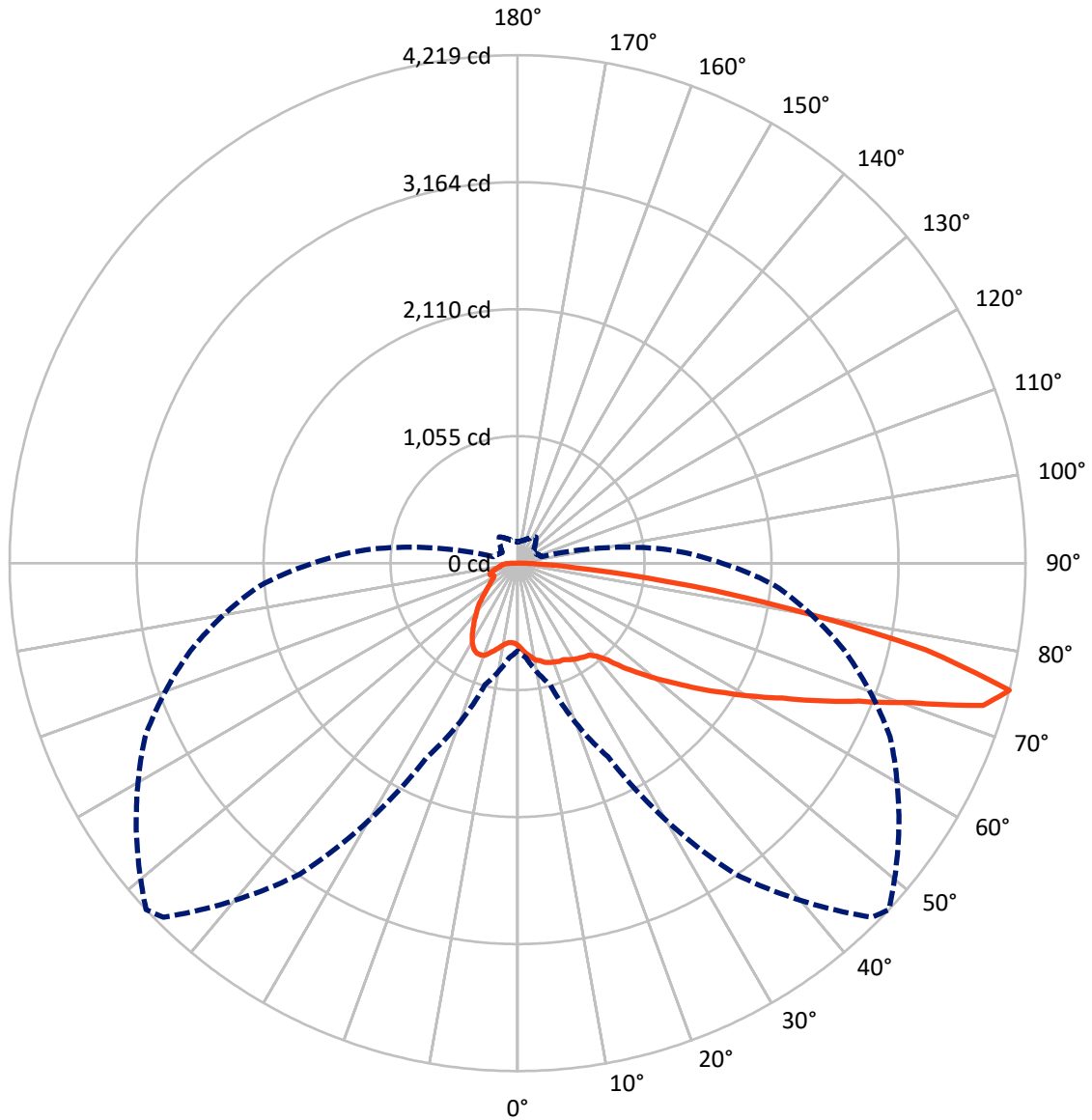
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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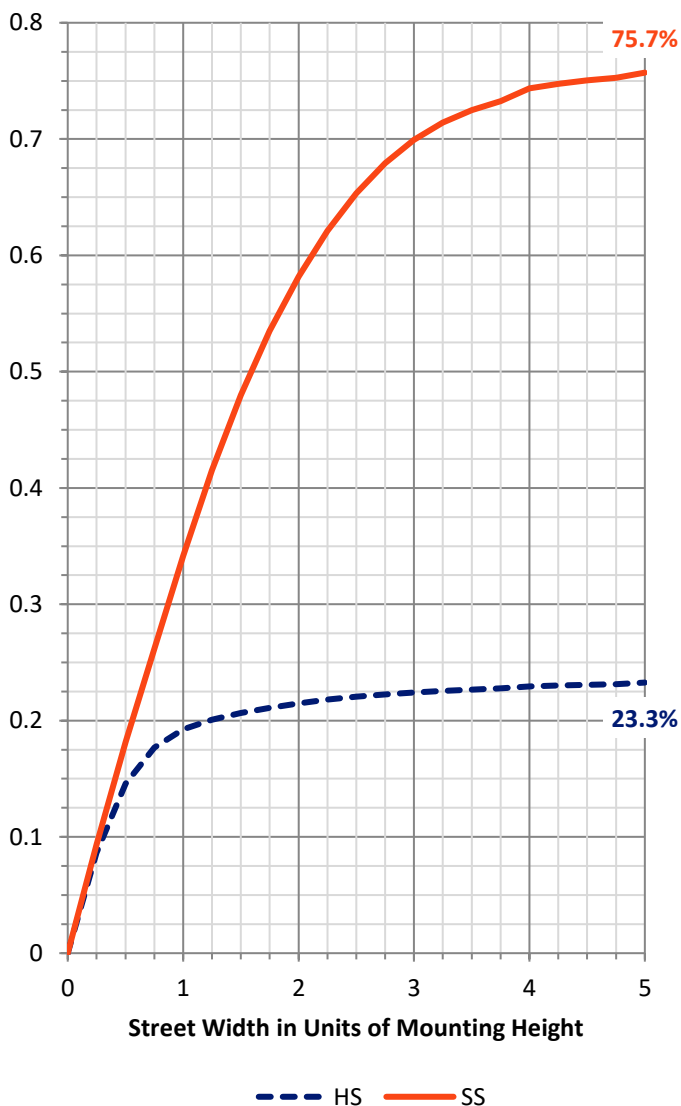
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1542.2 | 0.0 | 1542.2 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 4906.7 | 0.0 | 4906.7 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 6448.9 | 0.0 | 6448.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.2 | 1.1 |
| 10°-20° | 229.9 | 3.6 |
| 20°-30° | 393.7 | 6.1 |
| 30°-40° | 550.9 | 8.5 |
| 40°-50° | 768.1 | 11.9 |
| 50°-60° | 1148.1 | 17.8 |
| 60°-70° | 1655.4 | 25.7 |
| 70°-80° | 1409.1 | 21.8 |
| 80°-90° | 224.5 | 3.5 |
| 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° | 6448.9 | 100.0 |
| 0°-180° | 6448.9 | 100.0 |

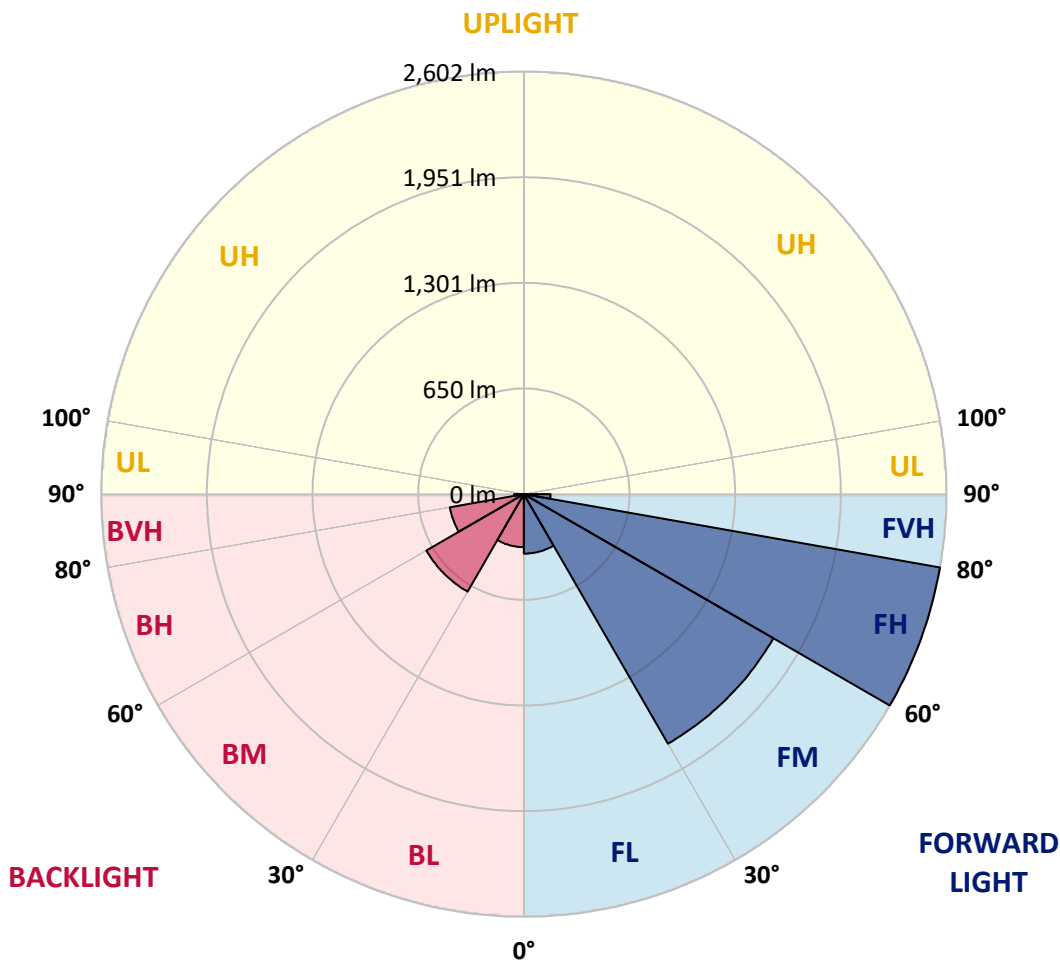


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 366.4 | 5.7 | | | |
| FM (30°-60°) | 1774.1 | 27.5 | | | |
| FH (60°-80°) | 2601.8 | 40.3 | | | G2/5000 |
| FVH (80°-90°) | 164.5 | 2.6 | | | G2/225 |
| BL (0°-30°) | 326.4 | 5.1 | B1/500 | | |
| BM (30°-60°) | 693.1 | 10.7 | B1/1000 | | |
| BH (60°-80°) | 462.7 | 7.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 60.0 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 |
| 2.5° | 734.2 | 736.5 | 736.5 | 731.8 | 727.1 | 717.7 | 717.7 | 708.3 | 703.6 | 691.8 | 687.1 |
| 5° | 802.4 | 795.3 | 788.3 | 785.9 | 774.2 | 757.7 | 755.3 | 745.9 | 720.0 | 708.3 | 691.8 |
| 7.5° | 851.8 | 849.5 | 847.1 | 837.7 | 816.5 | 790.6 | 783.6 | 769.4 | 743.6 | 720.0 | 701.2 |
| 10° | 891.8 | 901.2 | 891.8 | 870.6 | 849.5 | 821.2 | 818.9 | 793.0 | 769.4 | 741.2 | 717.7 |
| 12.5° | 936.5 | 938.9 | 922.4 | 896.5 | 863.6 | 840.0 | 830.6 | 821.2 | 795.3 | 771.8 | 736.5 |
| 15° | 967.1 | 962.4 | 950.6 | 915.3 | 877.7 | 854.2 | 856.5 | 844.7 | 816.5 | 800.0 | 762.4 |
| 17.5° | 967.1 | 967.1 | 948.3 | 922.4 | 889.5 | 868.3 | 868.3 | 861.2 | 842.4 | 818.9 | 793.0 |
| 20° | 948.3 | 948.3 | 936.5 | 922.4 | 884.7 | 880.0 | 875.3 | 870.6 | 870.6 | 849.5 | 811.8 |
| 22.5° | 924.8 | 920.0 | 924.8 | 901.2 | 875.3 | 880.0 | 887.1 | 884.7 | 877.7 | 858.9 | 833.0 |
| 25° | 901.2 | 903.6 | 908.3 | 891.8 | 868.3 | 889.5 | 887.1 | 898.9 | 894.2 | 880.0 | 858.9 |
| 27.5° | 898.9 | 903.6 | 905.9 | 889.5 | 880.0 | 898.9 | 908.3 | 920.0 | 922.4 | 908.3 | 882.4 |
| 30° | 934.2 | 931.8 | 929.5 | 908.3 | 901.2 | 917.7 | 927.1 | 943.6 | 957.7 | 927.1 | 905.9 |
| 32.5° | 1025.9 | 1011.8 | 997.7 | 941.2 | 920.0 | 931.8 | 941.2 | 964.8 | 967.1 | 950.6 | 920.0 |
| 35° | 1171.8 | 1162.4 | 1115.3 | 1016.5 | 957.7 | 945.9 | 955.3 | 971.8 | 976.5 | 964.8 | 941.2 |
| 37.5° | 1338.9 | 1334.2 | 1268.3 | 1148.3 | 1035.3 | 978.9 | 969.5 | 993.0 | 1011.8 | 985.9 | 953.0 |
| 40° | 1503.6 | 1484.8 | 1437.7 | 1320.1 | 1134.2 | 1028.3 | 1016.5 | 1028.3 | 1035.3 | 1016.5 | 995.3 |
| 42.5° | 1651.8 | 1630.7 | 1618.9 | 1501.3 | 1263.6 | 1110.6 | 1101.2 | 1073.0 | 1094.2 | 1070.6 | 1042.4 |
| 45° | 1776.6 | 1771.9 | 1767.1 | 1666.0 | 1411.8 | 1244.8 | 1237.7 | 1164.8 | 1188.3 | 1169.5 | 1129.5 |
| 47.5° | 1866.0 | 1887.2 | 1880.1 | 1823.6 | 1581.3 | 1388.3 | 1367.1 | 1273.0 | 1308.3 | 1289.5 | 1249.5 |
| 50° | 1971.9 | 1983.6 | 1976.6 | 1938.9 | 1738.9 | 1553.0 | 1513.0 | 1416.5 | 1456.5 | 1454.2 | 1433.0 |
| 52.5° | 2066.0 | 2101.3 | 2061.3 | 2058.9 | 1964.8 | 1731.8 | 1663.6 | 1571.8 | 1637.7 | 1663.6 | 1661.3 |
| 55° | 2176.6 | 2204.8 | 2193.0 | 2188.3 | 2167.2 | 1906.0 | 1844.8 | 1734.2 | 1844.8 | 1882.4 | 1915.4 |
| 57.5° | 2270.7 | 2268.3 | 2313.1 | 2367.2 | 2393.1 | 2106.0 | 2033.0 | 1903.6 | 2070.7 | 2113.0 | 2204.8 |
| 60° | 2313.1 | 2353.1 | 2428.4 | 2564.8 | 2637.8 | 2320.1 | 2244.8 | 2141.3 | 2298.9 | 2331.9 | 2501.3 |
| 62.5° | 2341.3 | 2376.6 | 2522.5 | 2753.1 | 2795.4 | 2538.9 | 2468.4 | 2364.8 | 2548.4 | 2571.9 | 2823.7 |
| 65° | 2263.6 | 2296.6 | 2586.0 | 2823.7 | 2974.3 | 2774.3 | 2757.8 | 2649.5 | 2797.8 | 2811.9 | 3162.5 |
| 67.5° | 2174.2 | 2209.5 | 2531.9 | 2913.1 | 3211.9 | 3087.2 | 3061.3 | 2931.9 | 3044.9 | 3028.4 | 3421.3 |
| 70° | 2016.6 | 2063.6 | 2393.1 | 2990.7 | 3475.5 | 3524.9 | 3473.1 | 3289.6 | 3301.3 | 3146.0 | 3433.1 |
| 72.5° | 1536.5 | 1567.1 | 1873.0 | 2682.5 | 3597.8 | 4132.0 | 4042.6 | 3675.5 | 3541.4 | 3169.6 | 3030.7 |
| 75° | 729.4 | 785.9 | 1044.8 | 1774.2 | 3153.1 | 4160.2 | 4219.0 | 3866.1 | 3414.3 | 2811.9 | 2148.3 |
| 77.5° | 211.8 | 211.8 | 317.7 | 753.0 | 1976.6 | 3353.1 | 3463.7 | 3282.5 | 2816.6 | 2082.5 | 1129.5 |
| 80° | 115.3 | 122.4 | 167.1 | 265.9 | 868.3 | 2115.4 | 2275.4 | 2176.6 | 1658.9 | 823.6 | 291.8 |
| 82.5° | 65.9 | 68.2 | 110.6 | 160.0 | 395.3 | 1150.6 | 1244.8 | 1129.5 | 630.6 | 249.4 | 136.5 |
| 85° | 37.6 | 40.0 | 63.5 | 105.9 | 235.3 | 423.6 | 461.2 | 400.0 | 254.1 | 167.1 | 68.2 |
| 87.5° | 18.8 | 18.8 | 30.6 | 49.4 | 120.0 | 120.0 | 117.7 | 143.5 | 152.9 | 101.2 | 30.6 |
| 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° | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 | 684.7 |
| 2.5° | 684.7 | 682.4 | 682.4 | 673.0 | 670.6 | 663.6 | 663.6 | 658.9 | 656.5 | 663.6 | 663.6 |
| 5° | 687.1 | 675.3 | 673.0 | 663.6 | 665.9 | 661.2 | 670.6 | 665.9 | 663.6 | 663.6 | 661.2 |
| 7.5° | 691.8 | 680.0 | 670.6 | 663.6 | 661.2 | 668.3 | 680.0 | 680.0 | 694.2 | 687.1 | 687.1 |
| 10° | 703.6 | 696.5 | 684.7 | 680.0 | 680.0 | 687.1 | 701.2 | 710.6 | 722.4 | 722.4 | 715.3 |
| 12.5° | 731.8 | 720.0 | 705.9 | 698.9 | 708.3 | 715.3 | 729.4 | 738.9 | 753.0 | 757.7 | 753.0 |
| 15° | 753.0 | 741.2 | 736.5 | 731.8 | 738.9 | 748.3 | 760.0 | 769.4 | 785.9 | 790.6 | 788.3 |
| 17.5° | 781.2 | 767.1 | 764.7 | 767.1 | 771.8 | 778.9 | 785.9 | 793.0 | 804.7 | 804.7 | 804.7 |
| 20° | 795.3 | 790.6 | 788.3 | 795.3 | 804.7 | 814.2 | 809.5 | 804.7 | 802.4 | 807.1 | 804.7 |
| 22.5° | 821.2 | 816.5 | 818.9 | 825.9 | 825.9 | 821.2 | 814.2 | 797.7 | 793.0 | 797.7 | 793.0 |
| 25° | 844.7 | 840.0 | 840.0 | 835.3 | 833.0 | 816.5 | 802.4 | 788.3 | 771.8 | 778.9 | 776.5 |
| 27.5° | 868.3 | 865.9 | 865.9 | 847.1 | 823.6 | 795.3 | 776.5 | 760.0 | 750.6 | 762.4 | 755.3 |
| 30° | 896.5 | 898.9 | 887.1 | 842.4 | 785.9 | 755.3 | 734.2 | 731.8 | 729.4 | 736.5 | 734.2 |
| 32.5° | 922.4 | 924.8 | 905.9 | 835.3 | 757.7 | 698.9 | 677.7 | 680.0 | 691.8 | 703.6 | 715.3 |
| 35° | 936.5 | 948.3 | 924.8 | 811.8 | 701.2 | 635.3 | 611.8 | 633.0 | 654.1 | 670.6 | 682.4 |
| 37.5° | 962.4 | 993.0 | 953.0 | 785.9 | 651.8 | 578.9 | 562.4 | 569.4 | 595.3 | 621.2 | 633.0 |
| 40° | 1000.0 | 1035.3 | 960.0 | 736.5 | 585.9 | 522.4 | 513.0 | 515.3 | 524.7 | 541.2 | 553.0 |
| 42.5° | 1065.9 | 1103.6 | 967.1 | 673.0 | 520.0 | 487.1 | 461.2 | 454.1 | 447.1 | 447.1 | 444.7 |
| 45° | 1162.4 | 1197.7 | 957.7 | 593.0 | 454.1 | 430.6 | 411.8 | 395.3 | 376.5 | 345.9 | 350.6 |
| 47.5° | 1303.6 | 1331.8 | 964.8 | 522.4 | 393.0 | 374.1 | 360.0 | 341.2 | 313.0 | 280.0 | 277.7 |
| 50° | 1517.7 | 1475.4 | 955.3 | 449.4 | 348.3 | 331.8 | 320.0 | 294.1 | 261.2 | 237.7 | 235.3 |
| 52.5° | 1767.1 | 1682.4 | 945.9 | 388.3 | 310.6 | 296.5 | 287.1 | 258.8 | 228.2 | 216.5 | 214.1 |
| 55° | 2068.3 | 1946.0 | 960.0 | 334.1 | 282.4 | 270.6 | 261.2 | 235.3 | 211.8 | 202.4 | 200.0 |
| 57.5° | 2423.6 | 2230.7 | 1037.7 | 291.8 | 251.8 | 247.1 | 244.7 | 223.5 | 202.4 | 195.3 | 193.0 |
| 60° | 2757.8 | 2503.7 | 1089.5 | 261.2 | 223.5 | 228.2 | 233.0 | 223.5 | 200.0 | 195.3 | 195.3 |
| 62.5° | 3037.8 | 2729.5 | 1007.1 | 235.3 | 209.4 | 223.5 | 244.7 | 237.7 | 228.2 | 233.0 | 228.2 |
| 65° | 3284.9 | 2807.2 | 753.0 | 221.2 | 202.4 | 235.3 | 270.6 | 268.2 | 247.1 | 251.8 | 249.4 |
| 67.5° | 3327.2 | 2713.1 | 491.8 | 209.4 | 197.7 | 258.8 | 303.5 | 275.3 | 233.0 | 233.0 | 225.9 |
| 70° | 3150.7 | 2461.3 | 329.4 | 197.7 | 195.3 | 258.8 | 310.6 | 258.8 | 218.8 | 218.8 | 209.4 |
| 72.5° | 2586.0 | 1967.2 | 254.1 | 185.9 | 178.8 | 230.6 | 294.1 | 244.7 | 204.7 | 200.0 | 183.5 |
| 75° | 1698.9 | 1268.3 | 207.1 | 176.5 | 155.3 | 202.4 | 265.9 | 225.9 | 195.3 | 181.2 | 174.1 |
| 77.5° | 833.0 | 569.4 | 174.1 | 155.3 | 134.1 | 176.5 | 242.4 | 214.1 | 183.5 | 169.4 | 164.7 |
| 80° | 228.2 | 204.7 | 145.9 | 136.5 | 112.9 | 152.9 | 228.2 | 204.7 | 171.8 | 157.7 | 150.6 |
| 82.5° | 129.4 | 127.1 | 117.7 | 110.6 | 94.1 | 152.9 | 230.6 | 204.7 | 162.4 | 160.0 | 136.5 |
| 85° | 70.6 | 75.3 | 84.7 | 82.4 | 72.9 | 136.5 | 218.8 | 178.8 | 131.8 | 110.6 | 110.6 |
| 87.5° | 28.2 | 35.3 | 42.4 | 47.1 | 49.4 | 101.2 | 164.7 | 136.5 | 101.2 | 84.7 | 84.7 |
| 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)