

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: P673877

Luminaire Tested: **CCP-SA-2A-827-U-SL3-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673877
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-827-U-SL3-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL3 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

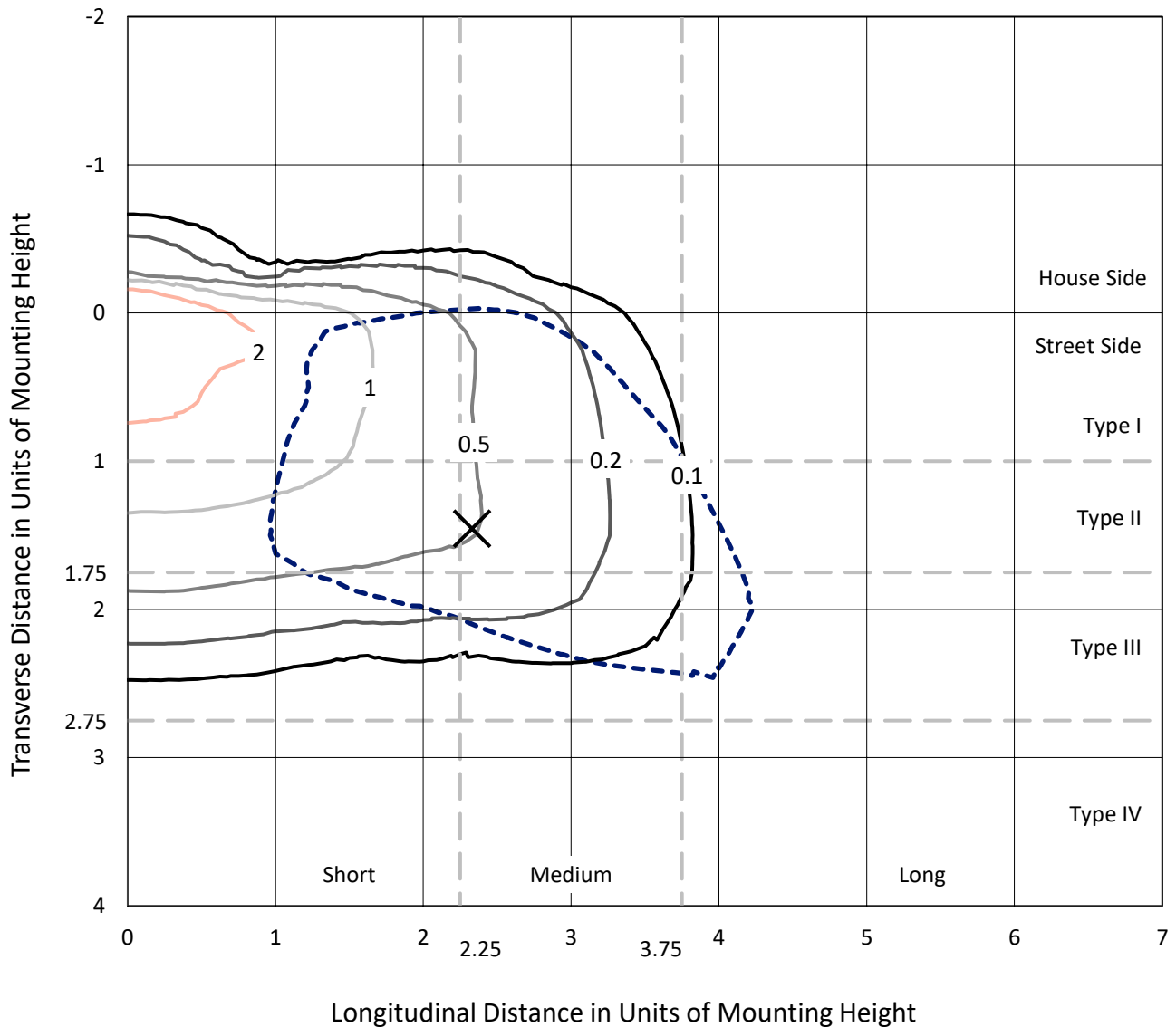
Lumens per Lamp: N/A
Luminaire Lumens: 3323.7 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

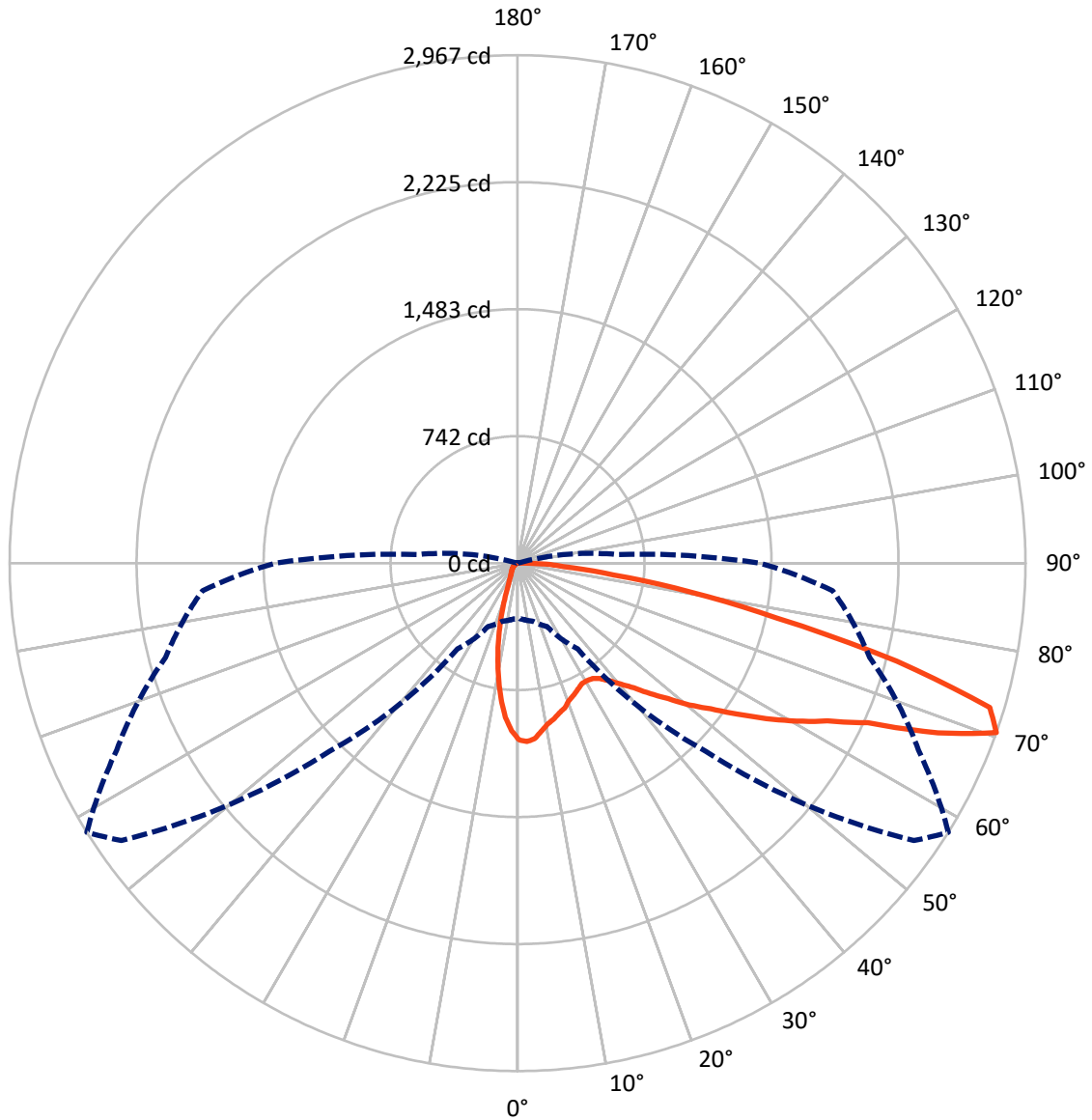
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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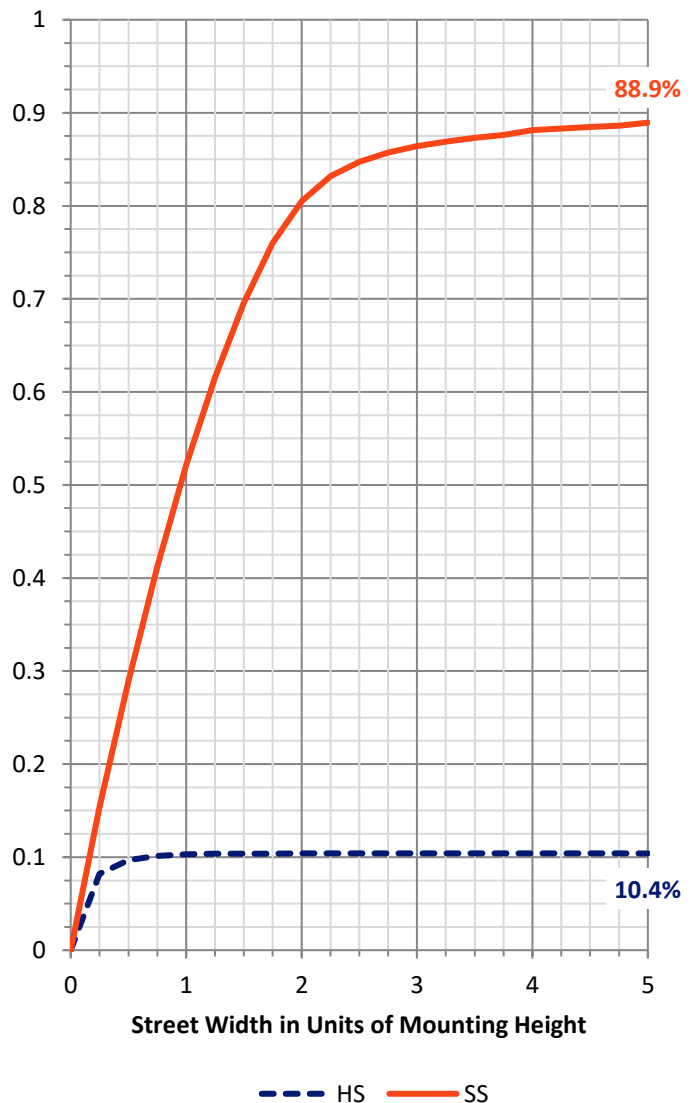
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 348.1 | 0.0 | 348.1 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 2975.7 | 0.0 | 2975.7 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 3323.7 | 0.0 | 3323.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 84.2 | 2.5 |
| 10°-20° | 175.3 | 5.3 |
| 20°-30° | 234.7 | 7.1 |
| 30°-40° | 317.2 | 9.5 |
| 40°-50° | 455.3 | 13.7 |
| 50°-60° | 671.0 | 20.2 |
| 60°-70° | 818.4 | 24.6 |
| 70°-80° | 499.8 | 15.0 |
| 80°-90° | 67.9 | 2.0 |
| 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° | 3323.7 | 100.0 |
| 0°-180° | 3323.7 | 100.0 |

Coefficient of Utilization



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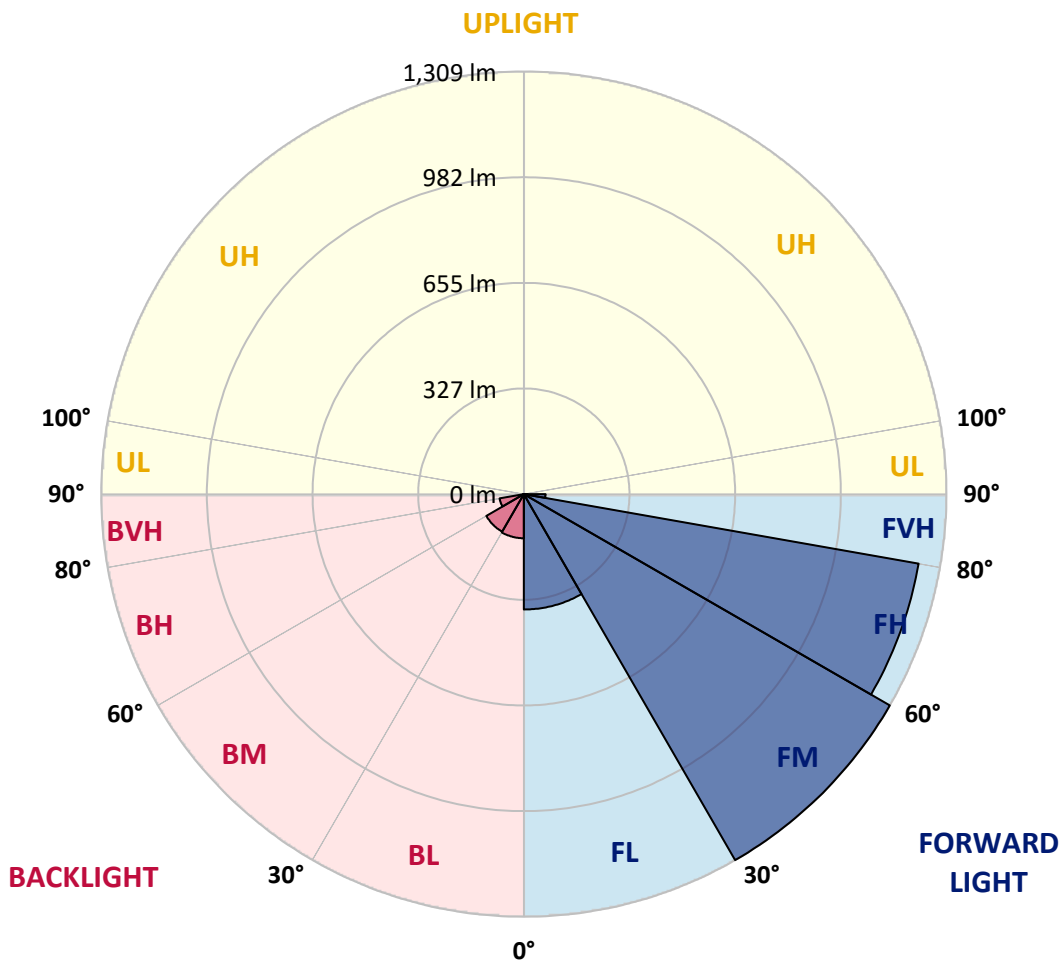
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 357.4 | 10.8 | | | |
| FM (30°-60°) | 1309.2 | 39.4 | | | |
| FH (60°-80°) | 1241.9 | 37.4 | | | G1/1800 |
| FVH (80°-90°) | 67.2 | 2.0 | | | G1/100 |
| BL (0°-30°) | 136.8 | 4.1 | B1/500 | | |
| BM (30°-60°) | 134.3 | 4.0 | B0/220 | | |
| BH (60°-80°) | 76.3 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 |
| 2.5° | 1050.5 | 1054.4 | 1045.0 | 1055.9 | 1045.8 | 1050.5 | 1045.0 | 1043.5 | 1044.3 | 1045.0 | 1038.8 |
| 5° | 1001.4 | 1010.7 | 1014.6 | 1008.4 | 1023.2 | 1020.9 | 1030.2 | 1031.0 | 1027.1 | 1023.2 | 1024.0 |
| 7.5° | 936.7 | 946.1 | 950.0 | 953.9 | 968.7 | 988.1 | 1000.6 | 992.8 | 999.1 | 1013.1 | 992.0 |
| 10° | 890.0 | 887.6 | 886.8 | 894.6 | 922.7 | 939.0 | 960.1 | 957.8 | 973.3 | 986.6 | 969.4 |
| 12.5° | 832.3 | 827.6 | 841.6 | 847.9 | 872.8 | 901.6 | 918.0 | 935.2 | 950.7 | 964.8 | 945.3 |
| 15° | 789.4 | 793.3 | 798.8 | 812.0 | 829.9 | 868.1 | 892.3 | 908.7 | 936.7 | 943.7 | 935.9 |
| 17.5° | 755.1 | 758.3 | 766.0 | 773.1 | 795.7 | 832.3 | 870.5 | 890.0 | 919.6 | 938.3 | 914.1 |
| 20° | 755.9 | 746.6 | 746.6 | 753.6 | 766.0 | 809.7 | 850.2 | 856.4 | 897.0 | 928.9 | 912.6 |
| 22.5° | 756.7 | 753.6 | 746.6 | 745.8 | 751.2 | 782.4 | 823.7 | 837.7 | 881.4 | 918.8 | 899.3 |
| 25° | 767.6 | 755.9 | 756.7 | 745.8 | 748.1 | 763.7 | 796.4 | 817.5 | 867.4 | 924.2 | 892.3 |
| 27.5° | 777.0 | 782.4 | 771.5 | 766.8 | 753.6 | 752.8 | 780.1 | 798.0 | 860.3 | 936.7 | 897.0 |
| 30° | 798.0 | 801.9 | 801.9 | 798.8 | 786.3 | 768.4 | 774.6 | 797.2 | 846.3 | 934.4 | 889.2 |
| 32.5° | 833.1 | 826.1 | 835.4 | 830.7 | 814.4 | 786.3 | 791.8 | 803.5 | 854.9 | 964.0 | 901.6 |
| 35° | 844.8 | 850.2 | 862.7 | 852.5 | 847.1 | 830.7 | 819.8 | 828.4 | 867.4 | 993.6 | 920.3 |
| 37.5° | 880.6 | 872.8 | 881.4 | 904.0 | 909.4 | 879.8 | 858.8 | 871.3 | 914.1 | 1028.7 | 937.5 |
| 40° | 883.7 | 890.0 | 905.5 | 950.0 | 955.4 | 942.9 | 925.8 | 928.9 | 960.9 | 1073.9 | 980.4 |
| 42.5° | 899.3 | 906.3 | 938.3 | 975.7 | 1005.3 | 1007.6 | 995.2 | 995.2 | 1022.4 | 1146.3 | 1027.9 |
| 45° | 929.7 | 918.0 | 959.3 | 1022.4 | 1065.3 | 1073.9 | 1090.2 | 1086.3 | 1108.2 | 1222.7 | 1116.7 |
| 47.5° | 941.4 | 945.3 | 990.5 | 1066.9 | 1115.9 | 1155.7 | 1183.0 | 1183.7 | 1194.7 | 1320.1 | 1232.1 |
| 50° | 979.6 | 978.8 | 1033.3 | 1104.3 | 1176.7 | 1249.2 | 1302.2 | 1302.2 | 1301.4 | 1415.2 | 1331.0 |
| 52.5° | 1030.2 | 1028.7 | 1070.7 | 1154.9 | 1249.2 | 1340.4 | 1410.5 | 1412.9 | 1430.8 | 1532.1 | 1444.8 |
| 55° | 1112.8 | 1105.8 | 1146.3 | 1208.7 | 1321.7 | 1432.3 | 1553.9 | 1554.7 | 1540.7 | 1615.5 | 1526.6 |
| 57.5° | 1182.2 | 1181.4 | 1214.9 | 1274.9 | 1402.7 | 1550.8 | 1691.8 | 1712.9 | 1668.5 | 1701.2 | 1592.1 |
| 60° | 1164.3 | 1174.4 | 1243.8 | 1332.6 | 1488.5 | 1698.9 | 1840.7 | 1873.4 | 1802.5 | 1759.6 | 1641.2 |
| 62.5° | 1052.8 | 1076.2 | 1151.8 | 1293.6 | 1560.9 | 1913.9 | 2045.6 | 2030.8 | 1872.6 | 1809.5 | 1701.2 |
| 65° | 757.5 | 780.9 | 874.4 | 1087.1 | 1476.8 | 2065.9 | 2315.3 | 2248.3 | 1997.3 | 1883.6 | 1781.5 |
| 67.5° | 445.8 | 455.1 | 513.6 | 693.6 | 1104.3 | 1983.3 | 2642.6 | 2648.0 | 2242.8 | 1997.3 | 1920.2 |
| 70° | 321.8 | 328.9 | 351.5 | 409.1 | 611.7 | 1554.7 | 2824.9 | 2966.8 | 2583.4 | 2128.3 | 1846.9 |
| 72.5° | 247.0 | 247.0 | 285.2 | 340.6 | 389.6 | 931.3 | 2599.7 | 2884.2 | 2657.4 | 2002.8 | 1488.5 |
| 75° | 177.7 | 182.4 | 223.7 | 293.0 | 359.3 | 467.6 | 1915.5 | 2288.8 | 2252.2 | 1623.3 | 1039.6 |
| 77.5° | 102.1 | 104.4 | 157.4 | 245.5 | 337.4 | 321.1 | 1183.7 | 1551.6 | 1595.2 | 1016.2 | 450.4 |
| 80° | 52.2 | 53.8 | 88.1 | 194.0 | 305.5 | 279.8 | 706.0 | 1021.7 | 866.6 | 295.4 | 104.4 |
| 82.5° | 25.7 | 25.7 | 39.7 | 123.9 | 259.5 | 247.8 | 415.4 | 564.2 | 307.0 | 67.8 | 43.6 |
| 85° | 8.6 | 9.4 | 17.9 | 70.1 | 187.8 | 149.6 | 254.0 | 268.1 | 102.9 | 25.7 | 24.2 |
| 87.5° | 2.3 | 3.1 | 4.7 | 25.7 | 81.8 | 98.2 | 151.2 | 171.4 | 42.1 | 10.1 | 11.7 |
| 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° | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 | 1031.8 |
| 2.5° | 1015.4 | 1010.0 | 1003.7 | 988.1 | 975.7 | 959.3 | 948.4 | 939.8 | 923.5 | 926.6 | 919.6 |
| 5° | 1005.3 | 995.2 | 959.3 | 925.0 | 893.8 | 846.3 | 813.6 | 792.5 | 775.4 | 758.3 | 770.7 |
| 7.5° | 987.4 | 963.2 | 907.1 | 843.2 | 777.0 | 714.6 | 652.3 | 614.9 | 587.6 | 562.6 | 561.9 |
| 10° | 957.0 | 918.0 | 829.9 | 746.6 | 644.5 | 562.6 | 483.2 | 420.8 | 380.3 | 350.7 | 349.9 |
| 12.5° | 922.7 | 882.2 | 771.5 | 635.9 | 518.2 | 402.9 | 307.8 | 241.6 | 203.4 | 180.0 | 176.9 |
| 15° | 900.9 | 841.6 | 698.2 | 537.7 | 392.0 | 262.6 | 170.7 | 129.4 | 114.6 | 109.1 | 109.1 |
| 17.5° | 872.8 | 805.0 | 625.8 | 435.6 | 272.0 | 152.0 | 110.7 | 99.7 | 99.0 | 97.4 | 95.9 |
| 20° | 861.1 | 777.0 | 561.1 | 347.6 | 172.2 | 107.5 | 95.1 | 92.7 | 92.7 | 91.2 | 89.6 |
| 22.5° | 829.9 | 736.4 | 492.5 | 254.8 | 114.6 | 94.3 | 89.6 | 86.5 | 84.9 | 83.4 | 84.9 |
| 25° | 815.9 | 707.6 | 427.8 | 176.1 | 93.5 | 84.2 | 81.8 | 78.7 | 76.4 | 75.6 | 75.6 |
| 27.5° | 806.6 | 678.8 | 364.7 | 122.3 | 82.6 | 77.2 | 72.5 | 70.1 | 67.0 | 63.9 | 63.9 |
| 30° | 799.6 | 656.2 | 303.9 | 90.4 | 74.0 | 68.6 | 64.7 | 59.2 | 55.3 | 52.2 | 52.2 |
| 32.5° | 790.2 | 629.7 | 243.1 | 77.2 | 67.0 | 61.6 | 54.6 | 49.9 | 44.4 | 42.1 | 42.1 |
| 35° | 793.3 | 611.7 | 190.9 | 68.6 | 60.0 | 53.0 | 46.8 | 40.5 | 35.1 | 32.7 | 32.0 |
| 37.5° | 799.6 | 598.5 | 144.9 | 61.6 | 53.8 | 46.0 | 39.0 | 32.0 | 28.8 | 25.7 | 25.7 |
| 40° | 826.1 | 594.6 | 106.8 | 56.9 | 49.1 | 40.5 | 32.7 | 26.5 | 23.4 | 21.0 | 20.3 |
| 42.5° | 870.5 | 600.1 | 82.6 | 51.4 | 44.4 | 34.3 | 27.3 | 21.8 | 18.7 | 16.4 | 15.6 |
| 45° | 927.4 | 621.1 | 67.8 | 48.3 | 39.0 | 28.8 | 21.8 | 17.9 | 14.0 | 12.5 | 12.5 |
| 47.5° | 1010.0 | 653.8 | 59.2 | 44.4 | 34.3 | 24.2 | 18.7 | 14.0 | 10.9 | 9.4 | 9.4 |
| 50° | 1103.5 | 691.2 | 52.2 | 39.7 | 29.6 | 20.3 | 14.8 | 10.9 | 7.8 | 7.0 | 7.0 |
| 52.5° | 1197.0 | 738.8 | 48.3 | 36.6 | 25.7 | 16.4 | 11.7 | 7.8 | 5.5 | 4.7 | 4.7 |
| 55° | 1295.2 | 780.9 | 43.6 | 34.3 | 21.0 | 13.2 | 8.6 | 4.7 | 3.1 | 2.3 | 2.3 |
| 57.5° | 1363.8 | 797.2 | 38.2 | 29.6 | 16.4 | 10.1 | 6.2 | 3.1 | 1.6 | 0.8 | 0.8 |
| 60° | 1412.9 | 799.6 | 32.7 | 24.2 | 12.5 | 7.8 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 |
| 62.5° | 1454.2 | 804.2 | 28.1 | 18.7 | 9.4 | 5.5 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 |
| 65° | 1536.0 | 800.3 | 22.6 | 14.8 | 6.2 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1600.7 | 761.4 | 17.9 | 10.1 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1416.0 | 580.6 | 14.0 | 7.0 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1112.1 | 387.3 | 9.4 | 3.9 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 729.4 | 192.5 | 7.0 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 283.7 | 50.7 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 68.6 | 17.1 | 2.3 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 29.6 | 6.2 | 1.6 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.9 | 3.1 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.4 | 1.6 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 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)