

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: P675919

Luminaire Tested: **CCW-SA-1A-850-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675919
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-850-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

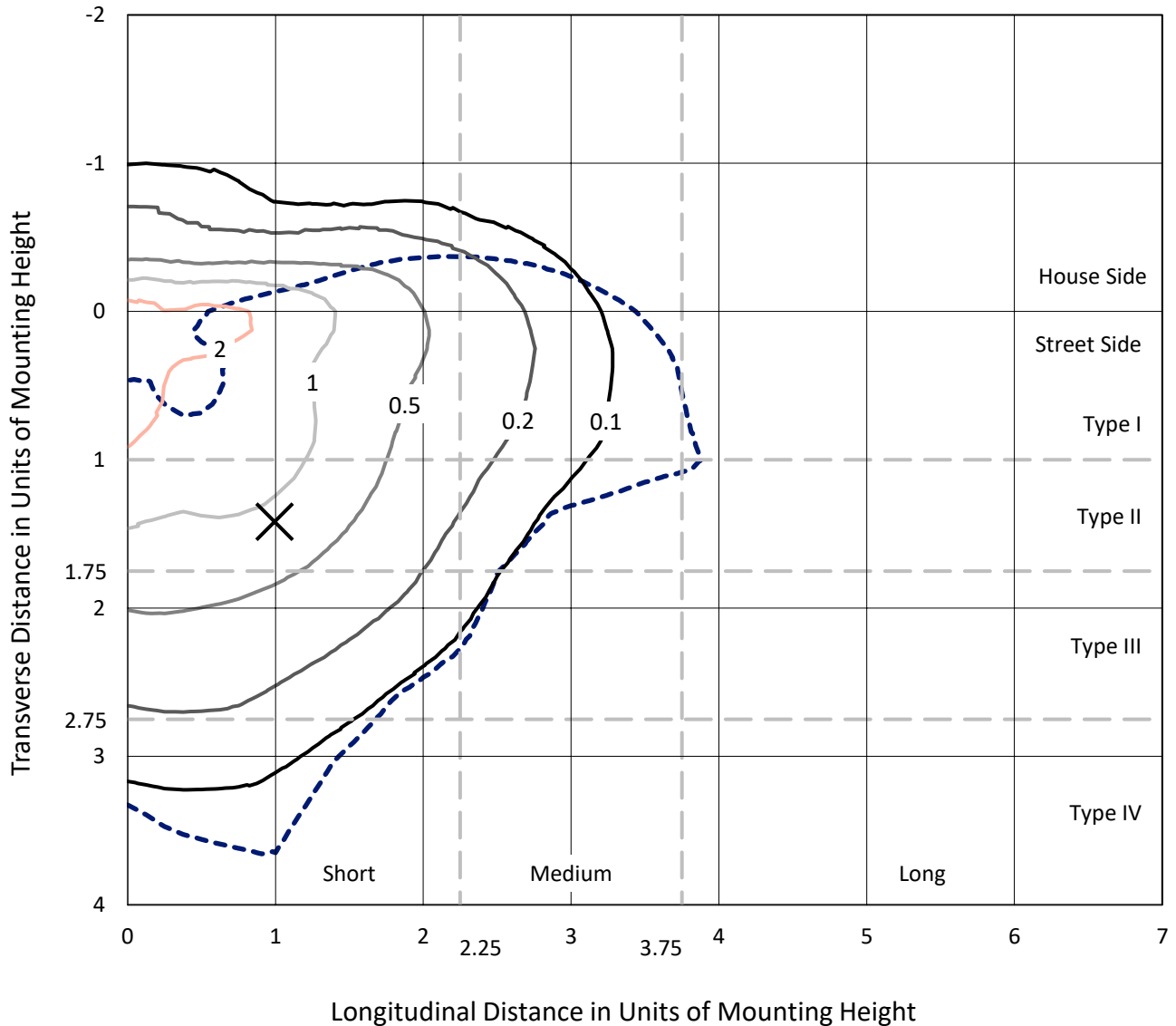
Lumens per Lamp: N/A
Luminaire Lumens: 1980.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
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

REPORT NUMBER: P675919
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Iso-Footcandle Lines of Horizontal Illumination

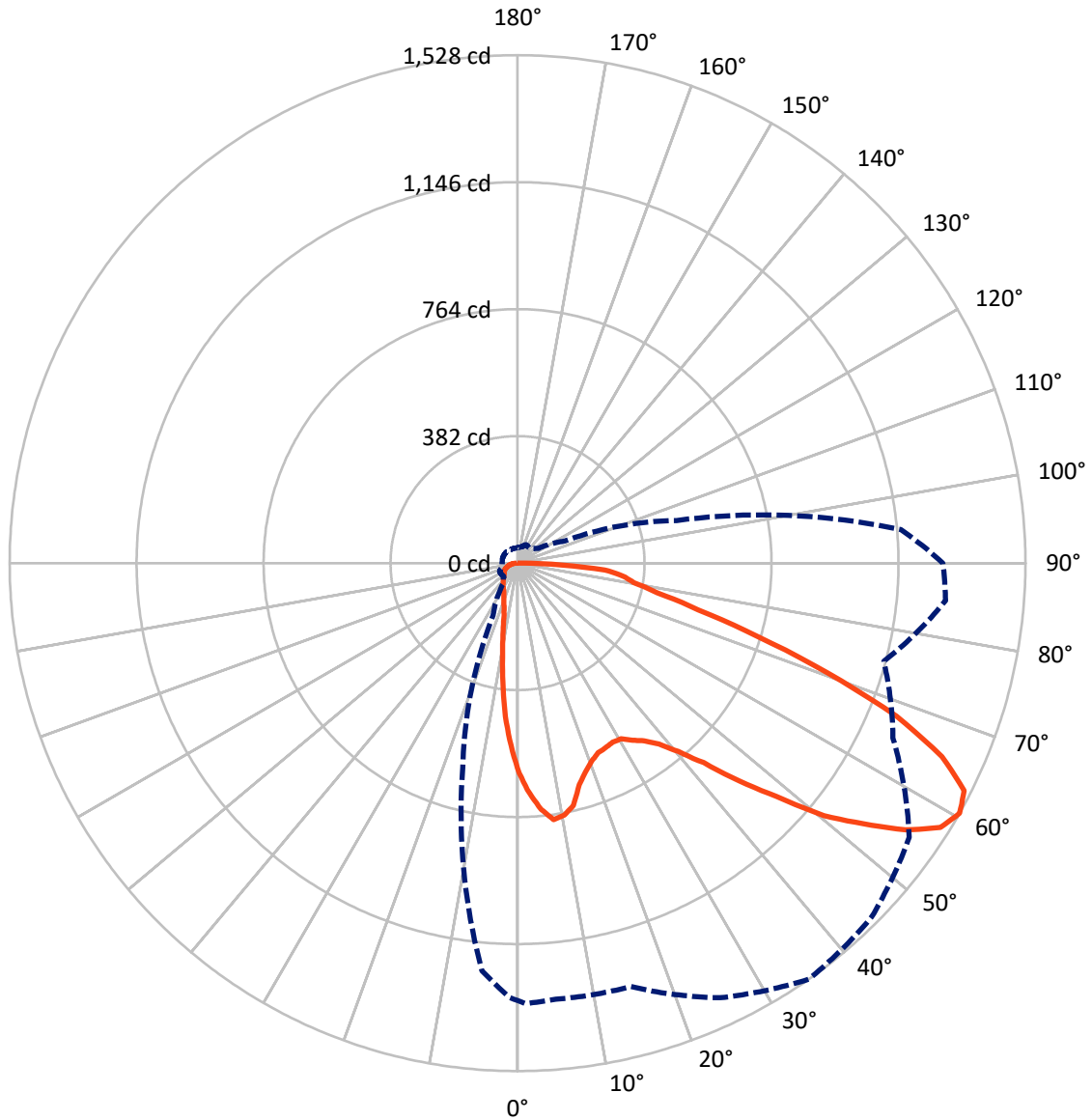
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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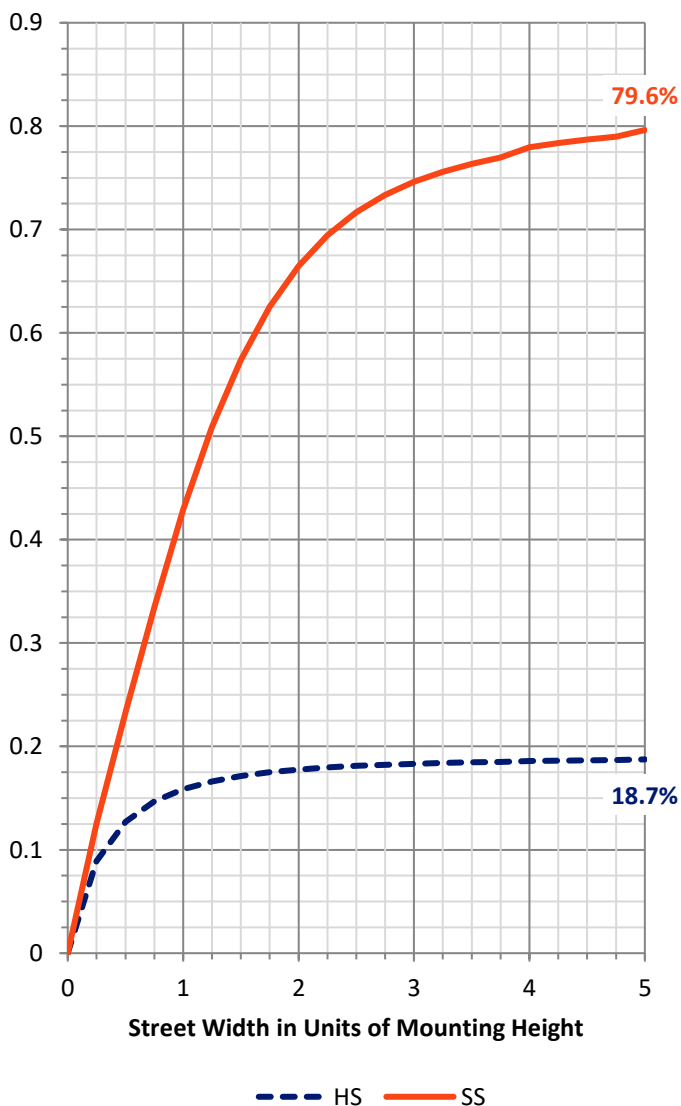
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 377.0 | 0.0 | 377.0 |
| | % Fixture | 19.0 | 0.0 | 19.0 |
| Street Side | Lumens | 1603.8 | 0.0 | 1603.8 |
| | % Fixture | 81.0 | 0.0 | 81.0 |
| Total | Lumens | 1980.8 | 0.0 | 1980.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.1 | 2.5 |
| 10°-20° | 103.8 | 5.2 |
| 20°-30° | 151.8 | 7.7 |
| 30°-40° | 213.9 | 10.8 |
| 40°-50° | 294.0 | 14.8 |
| 50°-60° | 400.7 | 20.2 |
| 60°-70° | 438.5 | 22.1 |
| 70°-80° | 253.2 | 12.8 |
| 80°-90° | 75.8 | 3.8 |
| 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° | 1980.8 | 100.0 |
| 0°-180° | 1980.8 | 100.0 |



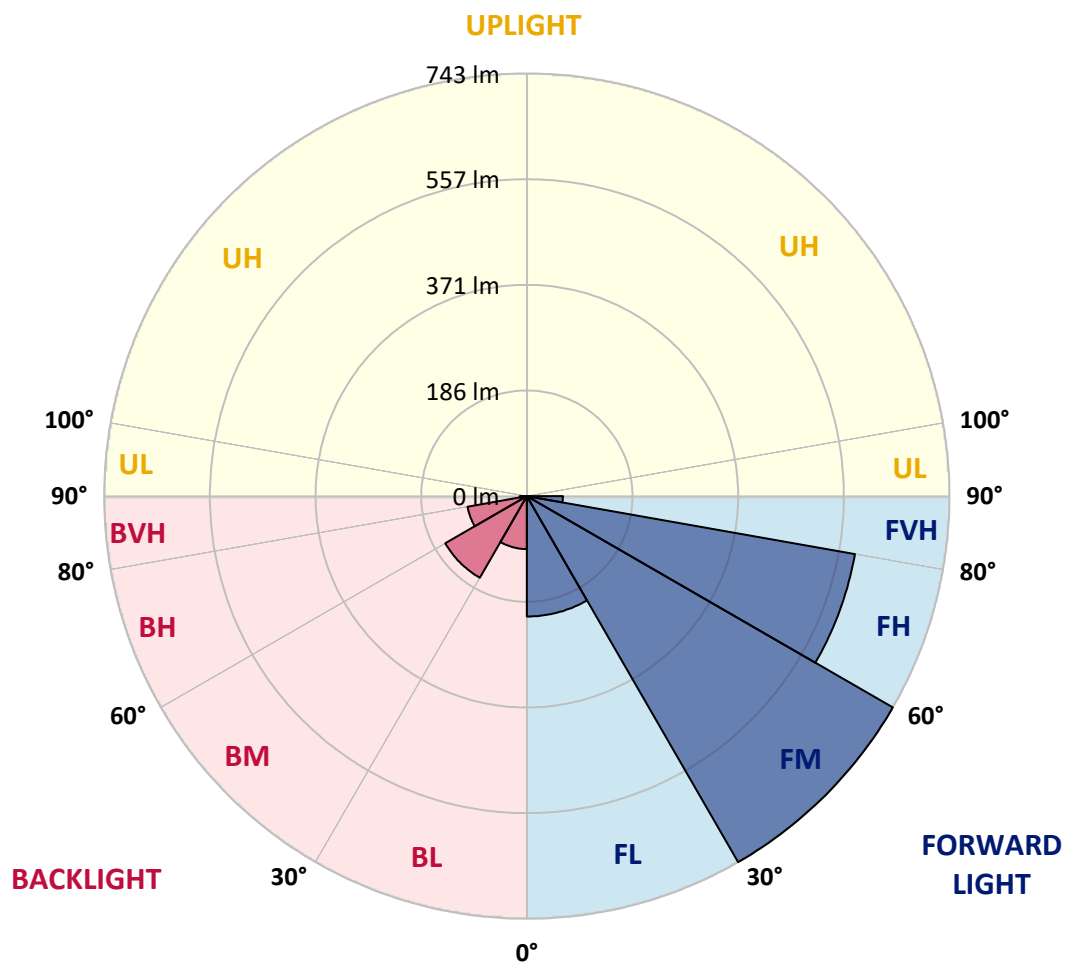
REPORT NUMBER: P675919
 CATALOG NUMBER: CCW-SA-1A-850-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 211.6 | 10.7 | | | |
| FM (30°-60°) | 743.0 | 37.5 | | | |
| FH (60°-80°) | 585.8 | 29.6 | | | G0/660 |
| FVH (80°-90°) | 63.5 | 3.2 | | | G1/100 |
| BL (0°-30°) | 93.1 | 4.7 | B0/110 | | |
| BM (30°-60°) | 165.6 | 8.4 | B0/220 | | |
| BH (60°-80°) | 105.9 | 5.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 12.4 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P675919
 CATALOG NUMBER: CCW-SA-1A-850-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 |
| 2.5° | 677.5 | 674.8 | 677.5 | 687.1 | 689.8 | 694.2 | 694.2 | 688.0 | 676.6 | 671.3 | 662.5 |
| 5° | 692.4 | 688.0 | 710.0 | 730.2 | 746.0 | 744.2 | 729.3 | 717.0 | 694.2 | 659.9 | 627.4 |
| 7.5° | 662.5 | 666.9 | 682.7 | 735.5 | 772.4 | 779.4 | 755.7 | 731.1 | 681.9 | 634.4 | 590.5 |
| 10° | 606.3 | 612.4 | 646.7 | 701.2 | 759.2 | 770.6 | 755.7 | 725.8 | 666.9 | 608.0 | 557.1 |
| 12.5° | 579.1 | 593.1 | 613.3 | 679.2 | 720.5 | 747.8 | 740.7 | 721.4 | 655.5 | 586.1 | 536.9 |
| 15° | 579.1 | 582.6 | 612.4 | 667.8 | 691.5 | 692.4 | 695.0 | 698.6 | 659.0 | 595.7 | 529.8 |
| 17.5° | 597.5 | 607.2 | 632.7 | 666.9 | 671.3 | 660.8 | 660.8 | 675.7 | 666.0 | 623.0 | 555.3 |
| 20° | 642.3 | 638.8 | 672.2 | 686.3 | 662.5 | 636.2 | 633.5 | 659.0 | 673.9 | 652.0 | 601.9 |
| 22.5° | 687.1 | 702.9 | 730.2 | 698.6 | 654.6 | 619.5 | 616.0 | 647.6 | 697.7 | 702.1 | 655.5 |
| 25° | 754.8 | 770.6 | 784.7 | 746.0 | 653.7 | 615.1 | 617.7 | 642.3 | 726.7 | 773.2 | 745.1 |
| 27.5° | 827.7 | 837.4 | 857.6 | 797.8 | 674.8 | 609.8 | 612.4 | 649.3 | 753.9 | 819.8 | 815.4 |
| 30° | 869.0 | 879.6 | 875.2 | 807.5 | 688.9 | 613.3 | 606.3 | 659.0 | 739.0 | 819.8 | 861.1 |
| 32.5° | 909.4 | 903.3 | 900.6 | 823.3 | 706.5 | 635.3 | 617.7 | 679.2 | 747.8 | 833.0 | 920.0 |
| 35° | 958.6 | 949.9 | 942.8 | 854.1 | 735.5 | 656.4 | 648.5 | 705.6 | 767.1 | 860.2 | 967.4 |
| 37.5° | 1013.1 | 1013.1 | 978.9 | 876.9 | 769.7 | 690.6 | 681.9 | 743.4 | 797.8 | 876.9 | 1032.5 |
| 40° | 1077.3 | 1079.9 | 1019.3 | 907.7 | 808.4 | 745.1 | 742.5 | 792.6 | 827.7 | 901.5 | 1094.8 |
| 42.5° | 1124.7 | 1126.5 | 1054.4 | 919.1 | 853.2 | 820.7 | 832.1 | 871.7 | 862.0 | 923.5 | 1099.2 |
| 45° | 1157.2 | 1148.4 | 1079.0 | 951.6 | 902.4 | 934.0 | 937.6 | 949.0 | 906.8 | 936.7 | 1116.8 |
| 47.5° | 1173.0 | 1171.3 | 1089.6 | 989.4 | 1006.1 | 1049.1 | 1069.4 | 1053.5 | 948.1 | 922.6 | 1116.8 |
| 50° | 1188.9 | 1173.9 | 1099.2 | 1041.2 | 1107.1 | 1194.1 | 1189.7 | 1160.7 | 1005.2 | 940.2 | 1100.1 |
| 52.5° | 1199.4 | 1186.2 | 1118.6 | 1087.8 | 1203.8 | 1302.2 | 1319.8 | 1266.2 | 1072.0 | 972.7 | 1108.0 |
| 55° | 1237.2 | 1226.6 | 1176.6 | 1151.1 | 1315.4 | 1416.4 | 1419.1 | 1344.4 | 1142.3 | 1026.3 | 1159.9 |
| 57.5° | 1282.9 | 1289.0 | 1256.5 | 1240.7 | 1400.6 | 1499.9 | 1490.2 | 1402.4 | 1202.0 | 1091.3 | 1219.6 |
| 60° | 1315.4 | 1325.1 | 1317.1 | 1318.9 | 1442.8 | 1528.0 | 1506.1 | 1438.4 | 1246.0 | 1140.5 | 1292.5 |
| 62.5° | 1297.8 | 1317.1 | 1349.7 | 1342.6 | 1444.6 | 1507.8 | 1477.1 | 1391.0 | 1251.2 | 1204.7 | 1347.9 |
| 65° | 1249.5 | 1251.2 | 1314.5 | 1353.2 | 1365.5 | 1403.3 | 1362.8 | 1291.7 | 1196.8 | 1244.2 | 1340.0 |
| 67.5° | 1125.6 | 1139.7 | 1196.8 | 1272.3 | 1220.5 | 1229.3 | 1225.8 | 1123.0 | 1114.2 | 1217.0 | 1279.4 |
| 70° | 993.8 | 1003.5 | 1065.8 | 1154.6 | 1030.7 | 989.4 | 997.3 | 920.9 | 956.9 | 1132.6 | 1157.2 |
| 72.5° | 821.6 | 827.7 | 898.9 | 977.1 | 826.8 | 753.0 | 771.5 | 709.1 | 760.1 | 991.2 | 976.2 |
| 75° | 620.3 | 631.8 | 687.1 | 779.4 | 608.9 | 561.5 | 579.9 | 554.4 | 601.9 | 816.3 | 757.4 |
| 77.5° | 441.1 | 432.3 | 500.8 | 609.8 | 457.8 | 429.7 | 431.4 | 435.8 | 486.8 | 688.0 | 543.9 |
| 80° | 300.5 | 303.1 | 364.7 | 447.2 | 359.4 | 355.0 | 350.6 | 385.7 | 408.6 | 544.8 | 395.4 |
| 82.5° | 178.4 | 178.4 | 246.0 | 318.1 | 283.8 | 319.8 | 299.6 | 331.3 | 319.8 | 400.7 | 259.2 |
| 85° | 83.5 | 83.5 | 126.5 | 229.3 | 219.7 | 263.6 | 224.1 | 250.4 | 236.4 | 279.4 | 116.9 |
| 87.5° | 14.1 | 12.3 | 25.5 | 112.5 | 90.5 | 102.8 | 40.4 | 133.6 | 148.5 | 195.1 | 29.0 |
| 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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 CATALOG NUMBER: CCW-SA-1A-850-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 |
| 2.5° | 652.9 | 646.7 | 634.4 | 618.6 | 605.4 | 588.7 | 583.4 | 572.0 | 556.2 | 554.4 | 547.4 |
| 5° | 615.1 | 594.0 | 567.6 | 535.1 | 513.2 | 490.3 | 471.0 | 459.6 | 446.4 | 444.6 | 441.1 |
| 7.5° | 573.8 | 547.4 | 503.5 | 464.8 | 427.0 | 391.0 | 373.4 | 351.5 | 336.5 | 325.1 | 319.8 |
| 10° | 535.1 | 510.5 | 456.0 | 403.3 | 369.9 | 346.2 | 325.1 | 302.3 | 283.8 | 269.8 | 264.5 |
| 12.5° | 509.6 | 480.6 | 421.8 | 371.7 | 347.1 | 319.8 | 296.1 | 271.5 | 247.8 | 229.3 | 219.7 |
| 15° | 498.2 | 471.0 | 411.2 | 355.9 | 319.8 | 282.1 | 254.8 | 230.2 | 201.2 | 188.0 | 183.6 |
| 17.5° | 525.5 | 485.0 | 407.7 | 337.4 | 286.5 | 243.4 | 210.0 | 183.6 | 162.6 | 149.4 | 144.1 |
| 20° | 560.6 | 510.5 | 413.9 | 315.4 | 254.8 | 206.5 | 169.6 | 141.5 | 127.4 | 117.7 | 116.9 |
| 22.5° | 605.4 | 548.3 | 423.5 | 299.6 | 219.7 | 166.1 | 132.7 | 116.0 | 106.3 | 105.4 | 103.7 |
| 25° | 685.4 | 616.8 | 439.3 | 278.5 | 191.6 | 137.1 | 113.3 | 103.7 | 99.3 | 96.7 | 98.4 |
| 27.5° | 753.9 | 661.6 | 450.8 | 265.4 | 180.1 | 129.2 | 109.8 | 99.3 | 94.9 | 94.0 | 94.9 |
| 30° | 794.3 | 702.9 | 447.2 | 240.8 | 157.3 | 123.0 | 116.9 | 113.3 | 104.6 | 97.5 | 97.5 |
| 32.5° | 831.2 | 729.3 | 446.4 | 218.8 | 134.4 | 102.8 | 97.5 | 94.9 | 100.2 | 103.7 | 101.0 |
| 35° | 882.2 | 770.6 | 443.7 | 206.5 | 124.8 | 94.9 | 86.1 | 79.1 | 75.6 | 73.8 | 76.4 |
| 37.5° | 936.7 | 798.7 | 436.7 | 204.7 | 119.5 | 90.5 | 83.5 | 76.4 | 72.9 | 71.2 | 70.3 |
| 40° | 996.4 | 828.6 | 428.8 | 195.9 | 116.9 | 87.9 | 80.8 | 74.7 | 70.3 | 67.7 | 66.8 |
| 42.5° | 1035.1 | 852.3 | 420.9 | 191.6 | 111.6 | 86.1 | 78.2 | 72.9 | 68.5 | 65.0 | 65.0 |
| 45° | 1057.1 | 880.4 | 413.0 | 187.2 | 105.4 | 87.0 | 78.2 | 71.2 | 65.9 | 64.1 | 62.4 |
| 47.5° | 1066.7 | 901.5 | 410.3 | 180.1 | 100.2 | 83.5 | 76.4 | 69.4 | 64.1 | 60.6 | 59.8 |
| 50° | 1092.2 | 946.3 | 420.0 | 174.9 | 94.0 | 80.0 | 80.8 | 68.5 | 63.3 | 58.9 | 58.0 |
| 52.5° | 1107.1 | 982.4 | 441.1 | 166.9 | 89.6 | 75.6 | 79.1 | 66.8 | 60.6 | 56.2 | 56.2 |
| 55° | 1161.6 | 1042.1 | 463.9 | 160.8 | 84.4 | 69.4 | 72.9 | 63.3 | 56.2 | 53.6 | 53.6 |
| 57.5° | 1231.0 | 1105.4 | 483.3 | 158.2 | 80.8 | 65.0 | 65.0 | 61.5 | 53.6 | 50.1 | 49.2 |
| 60° | 1279.4 | 1157.2 | 494.7 | 156.4 | 77.3 | 60.6 | 58.0 | 61.5 | 51.0 | 47.4 | 46.6 |
| 62.5° | 1284.6 | 1127.3 | 483.3 | 155.5 | 76.4 | 56.2 | 52.7 | 58.9 | 48.3 | 44.8 | 43.1 |
| 65° | 1251.2 | 1066.7 | 451.6 | 152.0 | 75.6 | 51.8 | 49.2 | 51.0 | 44.8 | 42.2 | 40.4 |
| 67.5° | 1184.5 | 968.3 | 406.0 | 150.3 | 74.7 | 48.3 | 44.8 | 43.9 | 41.3 | 38.7 | 36.9 |
| 70° | 1028.9 | 840.0 | 352.4 | 142.3 | 72.9 | 45.7 | 40.4 | 39.5 | 36.9 | 35.1 | 34.3 |
| 72.5° | 863.7 | 687.1 | 290.8 | 131.8 | 69.4 | 41.3 | 36.9 | 35.1 | 34.3 | 31.6 | 30.8 |
| 75° | 661.6 | 529.0 | 232.9 | 116.9 | 60.6 | 36.9 | 32.5 | 30.8 | 29.9 | 28.1 | 27.2 |
| 77.5° | 464.8 | 393.6 | 172.2 | 94.9 | 51.0 | 33.4 | 29.0 | 27.2 | 26.4 | 23.7 | 23.7 |
| 80° | 315.4 | 275.9 | 116.9 | 65.9 | 39.5 | 27.2 | 25.5 | 23.7 | 22.0 | 20.2 | 20.2 |
| 82.5° | 195.9 | 193.3 | 84.4 | 43.1 | 29.0 | 22.0 | 20.2 | 20.2 | 17.6 | 15.8 | 15.8 |
| 85° | 89.6 | 118.6 | 58.9 | 29.9 | 22.0 | 16.7 | 16.7 | 15.8 | 14.1 | 11.4 | 11.4 |
| 87.5° | 28.1 | 39.5 | 30.8 | 13.2 | 12.3 | 9.7 | 9.7 | 8.8 | 8.8 | 7.0 | 7.0 |
| 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° | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 |
| 2.5° | 554.4 | 553.6 | 553.6 | 550.1 | 558.8 | 558.8 | 564.1 | 559.7 | 562.4 | 563.2 | 570.3 |
| 5° | 440.2 | 447.2 | 452.5 | 463.1 | 469.2 | 471.9 | 471.9 | 478.9 | 476.2 | 481.5 | 492.1 |
| 7.5° | 322.5 | 331.3 | 347.1 | 360.3 | 370.8 | 374.3 | 373.4 | 375.2 | 377.8 | 371.7 | 373.4 |
| 10° | 261.0 | 254.8 | 260.1 | 272.4 | 282.1 | 293.5 | 284.7 | 283.8 | 286.5 | 283.8 | 289.1 |
| 12.5° | 217.9 | 210.9 | 206.5 | 206.5 | 213.5 | 218.8 | 216.2 | 220.5 | 230.2 | 232.9 | 239.0 |
| 15° | 176.6 | 170.5 | 166.9 | 162.6 | 169.6 | 171.3 | 174.0 | 180.1 | 187.2 | 190.7 | 197.7 |
| 17.5° | 141.5 | 141.5 | 141.5 | 138.0 | 140.6 | 143.2 | 144.1 | 152.0 | 152.9 | 156.4 | 159.0 |
| 20° | 116.0 | 118.6 | 123.0 | 124.8 | 127.4 | 127.4 | 125.7 | 130.0 | 126.5 | 129.2 | 130.9 |
| 22.5° | 104.6 | 108.1 | 109.8 | 110.7 | 114.2 | 115.1 | 110.7 | 111.6 | 112.5 | 109.8 | 110.7 |
| 25° | 98.4 | 100.2 | 98.4 | 99.3 | 100.2 | 98.4 | 99.3 | 101.0 | 100.2 | 101.9 | 101.0 |
| 27.5° | 95.8 | 94.0 | 93.1 | 92.3 | 92.3 | 90.5 | 91.4 | 91.4 | 93.1 | 94.0 | 94.0 |
| 30° | 95.8 | 93.1 | 89.6 | 87.0 | 87.0 | 84.4 | 86.1 | 87.9 | 88.7 | 90.5 | 90.5 |
| 32.5° | 98.4 | 93.1 | 87.0 | 84.4 | 81.7 | 80.0 | 81.7 | 84.4 | 87.9 | 88.7 | 89.6 |
| 35° | 78.2 | 80.8 | 80.0 | 76.4 | 75.6 | 75.6 | 74.7 | 74.7 | 72.1 | 72.1 | 71.2 |
| 37.5° | 70.3 | 69.4 | 71.2 | 72.1 | 72.9 | 70.3 | 70.3 | 66.8 | 65.9 | 66.8 | 66.8 |
| 40° | 65.9 | 65.9 | 65.9 | 68.5 | 69.4 | 67.7 | 65.0 | 63.3 | 63.3 | 63.3 | 64.1 |
| 42.5° | 64.1 | 62.4 | 61.5 | 63.3 | 65.9 | 64.1 | 61.5 | 60.6 | 60.6 | 61.5 | 61.5 |
| 45° | 61.5 | 60.6 | 59.8 | 58.9 | 62.4 | 59.8 | 58.9 | 58.0 | 58.0 | 58.0 | 58.9 |
| 47.5° | 58.9 | 58.0 | 56.2 | 56.2 | 57.1 | 56.2 | 55.4 | 55.4 | 55.4 | 57.1 | 57.1 |
| 50° | 57.1 | 56.2 | 54.5 | 54.5 | 54.5 | 54.5 | 53.6 | 53.6 | 53.6 | 54.5 | 55.4 |
| 52.5° | 54.5 | 53.6 | 52.7 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 52.7 | 53.6 |
| 55° | 51.8 | 51.0 | 50.1 | 50.1 | 51.0 | 51.0 | 50.1 | 51.0 | 50.1 | 51.0 | 51.8 |
| 57.5° | 49.2 | 48.3 | 47.4 | 48.3 | 49.2 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 49.2 |
| 60° | 45.7 | 45.7 | 45.7 | 45.7 | 47.4 | 47.4 | 47.4 | 47.4 | 45.7 | 46.6 | 47.4 |
| 62.5° | 43.9 | 43.1 | 43.1 | 43.9 | 44.8 | 44.8 | 45.7 | 44.8 | 43.9 | 44.8 | 44.8 |
| 65° | 40.4 | 40.4 | 40.4 | 41.3 | 41.3 | 42.2 | 42.2 | 42.2 | 41.3 | 42.2 | 42.2 |
| 67.5° | 37.8 | 37.8 | 37.8 | 37.8 | 39.5 | 39.5 | 39.5 | 39.5 | 38.7 | 38.7 | 39.5 |
| 70° | 33.4 | 34.3 | 33.4 | 35.1 | 36.9 | 36.0 | 36.9 | 36.9 | 36.0 | 35.1 | 36.9 |
| 72.5° | 30.8 | 30.8 | 30.8 | 30.8 | 33.4 | 33.4 | 33.4 | 34.3 | 33.4 | 32.5 | 33.4 |
| 75° | 27.2 | 27.2 | 27.2 | 28.1 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9 | 29.0 | 29.0 |
| 77.5° | 23.7 | 24.6 | 23.7 | 24.6 | 26.4 | 25.5 | 26.4 | 27.2 | 26.4 | 25.5 | 25.5 |
| 80° | 20.2 | 20.2 | 20.2 | 21.1 | 22.0 | 22.0 | 22.0 | 22.8 | 22.0 | 21.1 | 21.1 |
| 82.5° | 15.8 | 15.8 | 16.7 | 16.7 | 17.6 | 17.6 | 17.6 | 18.5 | 17.6 | 16.7 | 16.7 |
| 85° | 12.3 | 12.3 | 12.3 | 13.2 | 13.2 | 14.1 | 14.1 | 14.9 | 14.9 | 14.1 | 14.1 |
| 87.5° | 7.9 | 7.0 | 7.9 | 7.9 | 8.8 | 8.8 | 7.9 | 7.0 | 7.9 | 7.0 | 6.2 |
| 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° | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 | 632.7 |
| 2.5° | 577.3 | 593.1 | 604.5 | 612.4 | 623.9 | 645.8 | 654.6 | 670.4 | 674.8 | 677.5 |
| 5° | 496.5 | 513.2 | 537.8 | 555.3 | 575.5 | 616.8 | 648.5 | 672.2 | 682.7 | 692.4 |
| 7.5° | 389.3 | 411.2 | 436.7 | 459.6 | 492.9 | 543.9 | 585.2 | 634.4 | 652.9 | 662.5 |
| 10° | 304.0 | 324.2 | 352.4 | 380.5 | 427.0 | 470.1 | 529.0 | 573.8 | 599.3 | 606.3 |
| 12.5° | 256.6 | 280.3 | 313.7 | 348.0 | 377.0 | 426.2 | 485.9 | 550.9 | 574.7 | 579.1 |
| 15° | 217.9 | 250.4 | 284.7 | 319.8 | 353.2 | 396.3 | 460.4 | 539.5 | 574.7 | 579.1 |
| 17.5° | 180.1 | 209.1 | 249.5 | 287.3 | 326.0 | 384.9 | 464.8 | 549.2 | 584.3 | 597.5 |
| 20° | 143.2 | 171.3 | 203.0 | 250.4 | 303.1 | 365.5 | 474.5 | 581.7 | 628.3 | 642.3 |
| 22.5° | 118.6 | 130.9 | 161.7 | 207.4 | 269.8 | 352.4 | 484.2 | 632.7 | 681.9 | 687.1 |
| 25° | 103.7 | 112.5 | 131.8 | 174.9 | 243.4 | 343.6 | 507.0 | 691.5 | 754.8 | 754.8 |
| 27.5° | 96.7 | 100.2 | 113.3 | 152.0 | 224.9 | 335.7 | 529.8 | 756.5 | 815.4 | 827.7 |
| 30° | 94.9 | 103.7 | 110.7 | 135.3 | 204.7 | 313.7 | 550.9 | 807.5 | 868.1 | 869.0 |
| 32.5° | 93.1 | 91.4 | 96.7 | 117.7 | 180.1 | 290.8 | 568.5 | 859.4 | 906.8 | 909.4 |
| 35° | 72.9 | 76.4 | 85.2 | 103.7 | 161.7 | 274.1 | 577.3 | 887.5 | 956.0 | 958.6 |
| 37.5° | 68.5 | 72.9 | 80.0 | 95.8 | 149.4 | 260.1 | 579.9 | 941.9 | 1007.8 | 1013.1 |
| 40° | 66.8 | 70.3 | 75.6 | 88.7 | 139.7 | 242.5 | 585.2 | 998.2 | 1084.3 | 1077.3 |
| 42.5° | 63.3 | 67.7 | 72.9 | 85.2 | 131.8 | 229.3 | 586.1 | 1028.9 | 1124.7 | 1124.7 |
| 45° | 62.4 | 65.0 | 71.2 | 85.2 | 123.0 | 217.9 | 572.0 | 1059.7 | 1171.3 | 1157.2 |
| 47.5° | 58.9 | 64.1 | 69.4 | 82.6 | 112.5 | 206.5 | 555.3 | 1075.5 | 1177.4 | 1173.0 |
| 50° | 58.0 | 63.3 | 72.1 | 78.2 | 106.3 | 201.2 | 551.8 | 1115.0 | 1189.7 | 1188.9 |
| 52.5° | 56.2 | 61.5 | 74.7 | 74.7 | 98.4 | 194.2 | 568.5 | 1132.6 | 1192.4 | 1199.4 |
| 55° | 53.6 | 61.5 | 69.4 | 68.5 | 91.4 | 185.4 | 587.0 | 1178.3 | 1238.9 | 1237.2 |
| 57.5° | 51.8 | 59.8 | 65.9 | 62.4 | 83.5 | 179.3 | 614.2 | 1222.2 | 1295.2 | 1282.9 |
| 60° | 49.2 | 59.8 | 58.9 | 58.0 | 77.3 | 174.0 | 637.0 | 1231.0 | 1307.5 | 1315.4 |
| 62.5° | 47.4 | 62.4 | 51.8 | 53.6 | 72.1 | 171.3 | 627.4 | 1165.1 | 1290.8 | 1297.8 |
| 65° | 45.7 | 53.6 | 47.4 | 49.2 | 70.3 | 166.1 | 589.6 | 1086.1 | 1218.7 | 1249.5 |
| 67.5° | 42.2 | 43.9 | 43.9 | 45.7 | 68.5 | 153.8 | 512.3 | 943.7 | 1108.9 | 1125.6 |
| 70° | 38.7 | 39.5 | 39.5 | 42.2 | 66.8 | 139.7 | 422.6 | 816.3 | 962.2 | 993.8 |
| 72.5° | 35.1 | 35.1 | 35.1 | 38.7 | 61.5 | 128.3 | 348.0 | 627.4 | 799.6 | 821.6 |
| 75° | 30.8 | 30.8 | 30.8 | 34.3 | 55.4 | 116.9 | 274.1 | 466.6 | 588.7 | 620.3 |
| 77.5° | 27.2 | 27.2 | 26.4 | 30.8 | 48.3 | 94.9 | 197.7 | 329.5 | 414.7 | 441.1 |
| 80° | 22.8 | 22.0 | 22.0 | 24.6 | 37.8 | 68.5 | 127.4 | 232.9 | 289.1 | 300.5 |
| 82.5° | 18.5 | 17.6 | 16.7 | 18.5 | 27.2 | 43.1 | 79.1 | 162.6 | 185.4 | 178.4 |
| 85° | 17.6 | 18.5 | 14.9 | 14.1 | 19.3 | 28.1 | 50.1 | 100.2 | 83.5 | 83.5 |
| 87.5° | 7.0 | 6.2 | 6.2 | 5.3 | 9.7 | 10.5 | 22.0 | 18.5 | 14.1 | 14.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)