

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: P677477

Luminaire Tested: **CCW-SA-2B-830-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677477
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

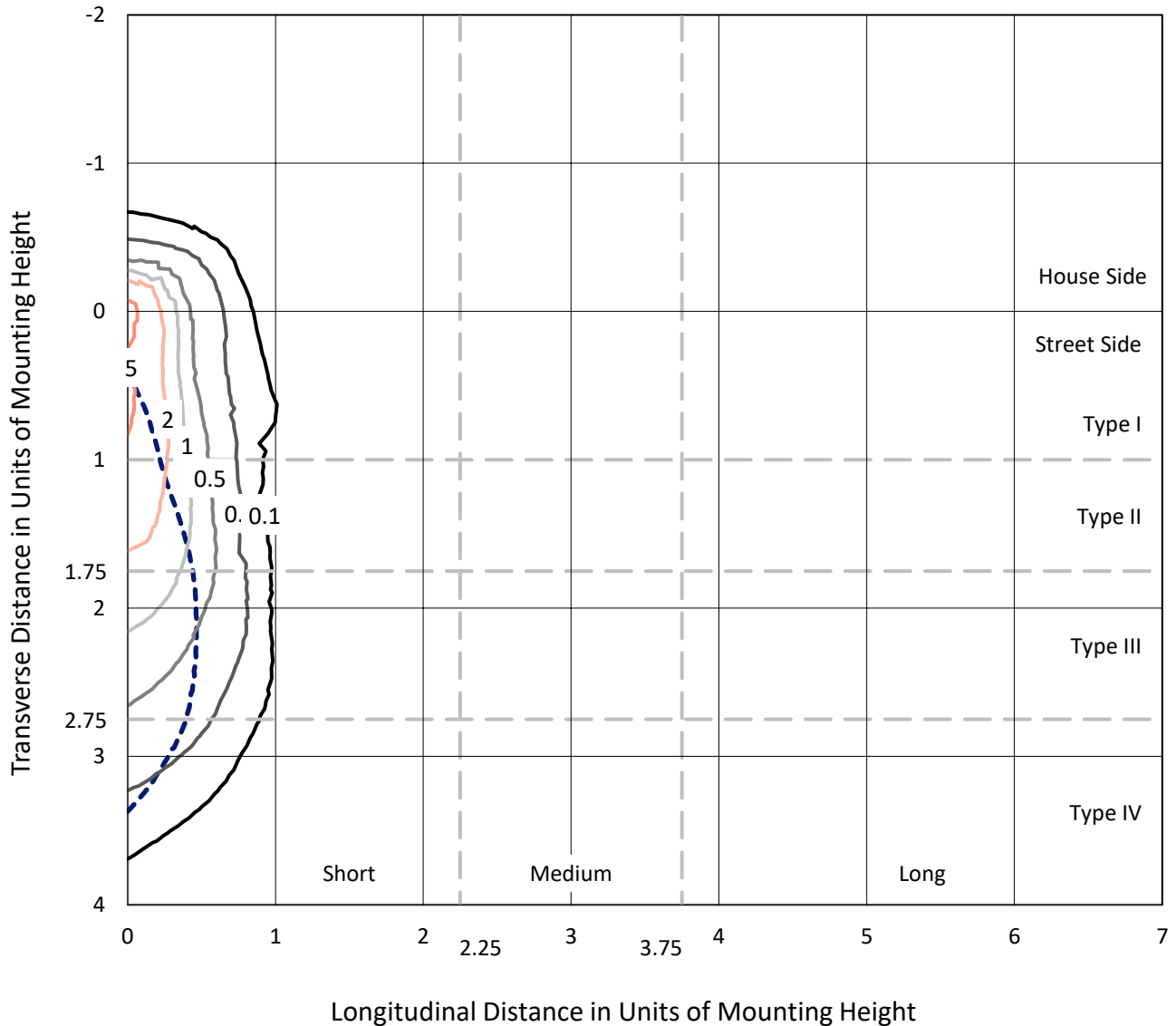
Lumens per Lamp: N/A
Luminaire Lumens: 3943.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

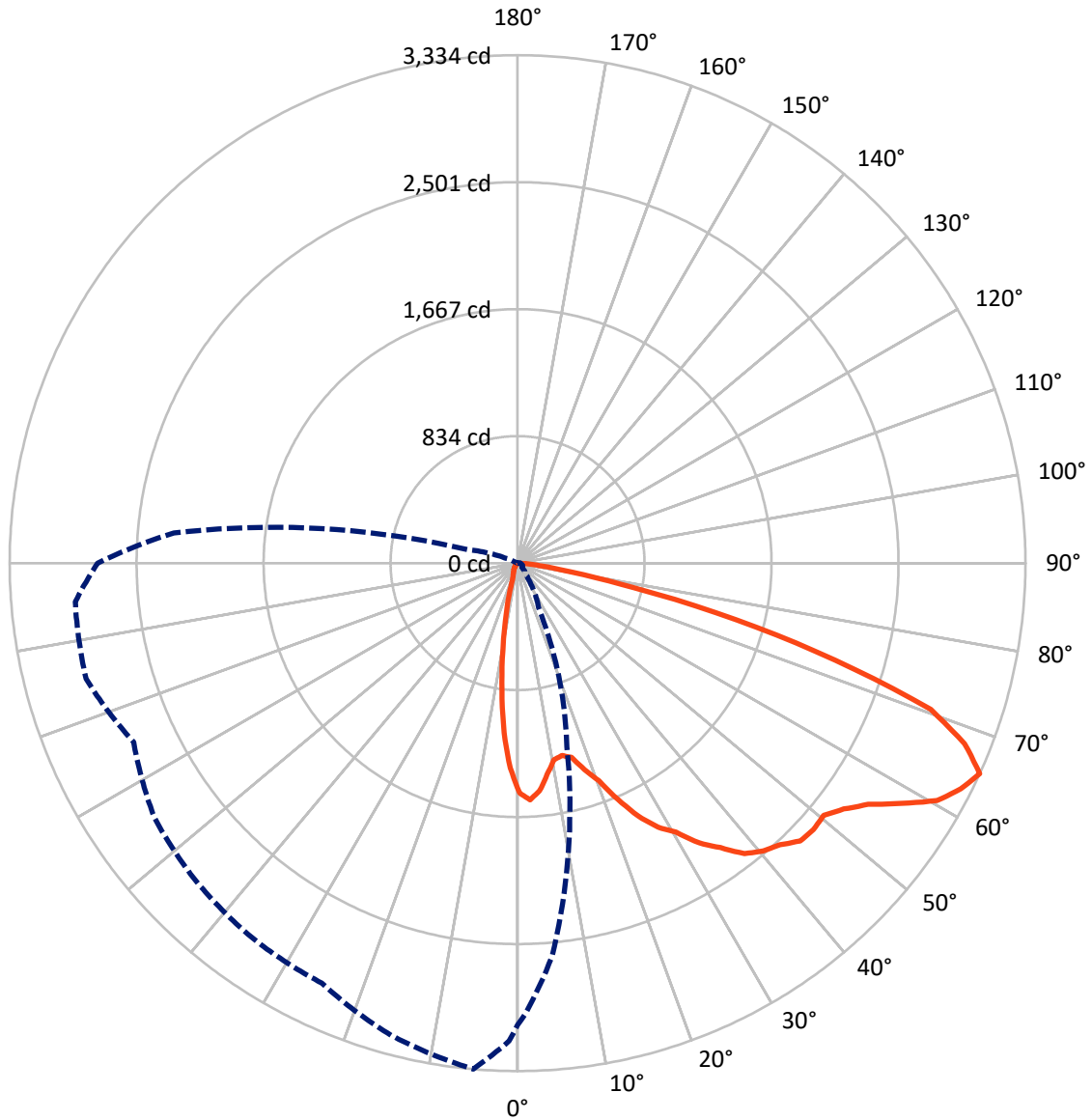
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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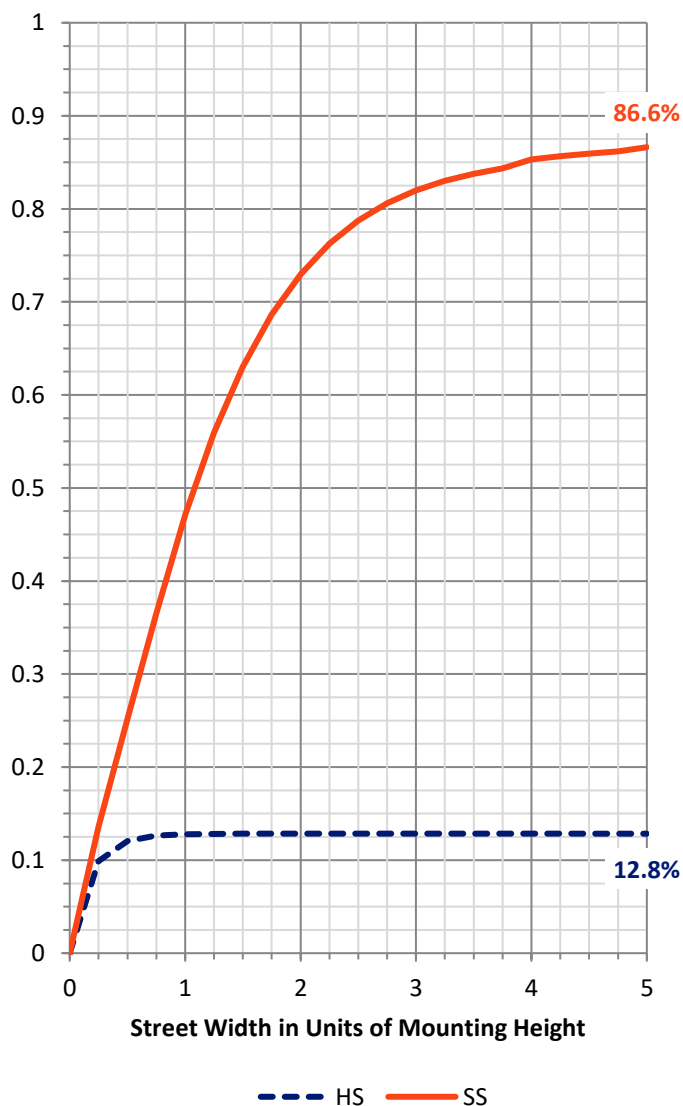
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 512.0 | 0.0 | 512.0 |
| | % Fixture | 13.0 | 0.0 | 13.0 |
| Street Side | Lumens | 3431.6 | 0.0 | 3431.6 |
| | % Fixture | 87.0 | 0.0 | 87.0 |
| Total | Lumens | 3943.6 | 0.0 | 3943.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.2 | 2.9 |
| 10°-20° | 221.1 | 5.6 |
| 20°-30° | 308.0 | 7.8 |
| 30°-40° | 437.6 | 11.1 |
| 40°-50° | 606.9 | 15.4 |
| 50°-60° | 826.9 | 21.0 |
| 60°-70° | 909.1 | 23.1 |
| 70°-80° | 446.8 | 11.3 |
| 80°-90° | 73.0 | 1.9 |
| 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° | 3943.6 | 100.0 |
| 0°-180° | 3943.6 | 100.0 |



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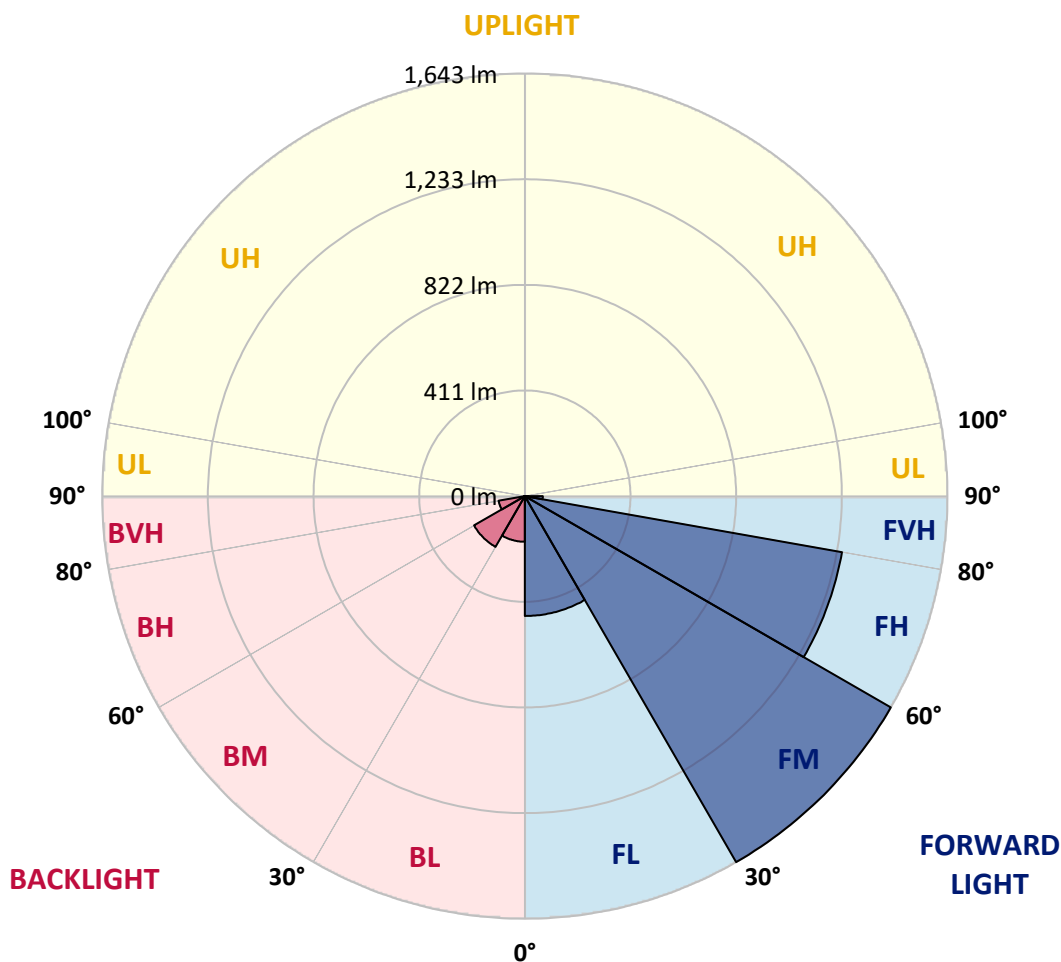
CATALOG NUMBER: CCW-SA-2B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 466.1 | 11.8 | | | |
| FM (30°-60°) | 1643.4 | 41.7 | | | |
| FH (60°-80°) | 1252.4 | 31.8 | | | G1/1800 |
| FVH (80°-90°) | 69.7 | 1.8 | | | G1/100 |
| BL (0°-30°) | 177.3 | 4.5 | B1/500 | | |
| BM (30°-60°) | 228.0 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 103.5 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.3 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 |
| 2.5° | 1538.5 | 1556.5 | 1539.5 | 1480.0 | 1469.4 | 1440.7 | 1397.1 | 1393.9 | 1348.2 | 1353.5 | 1329.0 |
| 5° | 1446.0 | 1464.0 | 1427.9 | 1349.2 | 1275.9 | 1217.4 | 1182.3 | 1119.6 | 1105.7 | 1074.9 | 1074.9 |
| 7.5° | 1351.3 | 1350.3 | 1288.6 | 1222.7 | 1113.2 | 1005.8 | 956.9 | 866.5 | 813.4 | 784.7 | 757.0 |
| 10° | 1272.7 | 1255.7 | 1217.4 | 1081.3 | 962.2 | 850.6 | 790.0 | 730.4 | 675.1 | 627.3 | 579.5 |
| 12.5° | 1217.4 | 1228.0 | 1167.4 | 1019.6 | 865.5 | 787.8 | 723.0 | 660.3 | 594.3 | 540.1 | 487.0 |
| 15° | 1246.1 | 1229.1 | 1157.8 | 1005.8 | 849.5 | 743.2 | 657.1 | 580.5 | 507.2 | 435.9 | 395.5 |
| 17.5° | 1335.4 | 1291.8 | 1207.8 | 1005.8 | 816.6 | 675.1 | 570.9 | 480.6 | 401.9 | 338.1 | 288.1 |
| 20° | 1455.5 | 1405.6 | 1315.2 | 1043.0 | 792.1 | 625.2 | 482.7 | 368.9 | 287.1 | 227.5 | 189.3 |
| 22.5° | 1578.9 | 1539.5 | 1403.4 | 1057.9 | 763.4 | 558.2 | 380.6 | 266.9 | 191.4 | 153.1 | 134.0 |
| 25° | 1726.7 | 1671.4 | 1522.5 | 1117.4 | 720.9 | 493.3 | 299.8 | 186.1 | 142.5 | 122.3 | 110.6 |
| 27.5° | 1844.7 | 1835.1 | 1634.2 | 1153.6 | 689.0 | 440.2 | 237.1 | 147.8 | 118.0 | 103.1 | 95.7 |
| 30° | 1993.5 | 1941.4 | 1770.3 | 1225.9 | 652.8 | 379.6 | 197.8 | 132.9 | 108.4 | 92.5 | 87.2 |
| 32.5° | 2082.8 | 2058.4 | 1841.5 | 1266.3 | 612.4 | 329.6 | 170.1 | 117.0 | 98.9 | 87.2 | 81.9 |
| 35° | 2212.6 | 2163.6 | 1943.6 | 1291.8 | 591.1 | 300.9 | 153.1 | 106.3 | 82.9 | 71.2 | 64.9 |
| 37.5° | 2357.2 | 2339.1 | 2065.8 | 1290.7 | 560.3 | 283.9 | 141.4 | 98.9 | 78.7 | 65.9 | 58.5 |
| 40° | 2504.9 | 2431.6 | 2140.3 | 1320.5 | 544.4 | 271.1 | 132.9 | 94.6 | 74.4 | 62.7 | 53.2 |
| 42.5° | 2615.5 | 2531.5 | 2226.4 | 1309.9 | 525.2 | 248.8 | 129.7 | 88.2 | 71.2 | 57.4 | 48.9 |
| 45° | 2645.3 | 2615.5 | 2304.0 | 1306.7 | 511.4 | 230.7 | 124.4 | 87.2 | 69.1 | 54.2 | 45.7 |
| 47.5° | 2702.7 | 2682.5 | 2399.7 | 1312.0 | 500.8 | 216.9 | 111.6 | 89.3 | 65.9 | 51.0 | 43.6 |
| 50° | 2728.2 | 2692.1 | 2477.3 | 1324.8 | 476.3 | 199.9 | 99.9 | 93.6 | 64.9 | 50.0 | 41.5 |
| 52.5° | 2833.5 | 2801.6 | 2583.6 | 1360.9 | 456.1 | 177.6 | 88.2 | 89.3 | 67.0 | 46.8 | 39.3 |
| 55° | 2936.6 | 2900.5 | 2747.4 | 1443.8 | 427.4 | 159.5 | 75.5 | 78.7 | 63.8 | 42.5 | 35.1 |
| 57.5° | 3078.0 | 3018.5 | 2856.9 | 1477.9 | 401.9 | 135.0 | 67.0 | 64.9 | 59.5 | 38.3 | 30.8 |
| 60° | 3099.3 | 3123.7 | 2840.9 | 1456.6 | 375.3 | 119.1 | 58.5 | 50.0 | 63.8 | 34.0 | 26.6 |
| 62.5° | 3170.5 | 3068.4 | 2766.5 | 1407.7 | 356.2 | 109.5 | 52.1 | 41.5 | 55.3 | 29.8 | 22.3 |
| 65° | 3033.4 | 2957.9 | 2592.1 | 1250.3 | 331.7 | 110.6 | 45.7 | 34.0 | 35.1 | 24.5 | 18.1 |
| 67.5° | 2832.4 | 2772.9 | 2302.9 | 1079.2 | 307.3 | 108.4 | 40.4 | 29.8 | 26.6 | 21.3 | 15.9 |
| 70° | 2485.8 | 2357.2 | 1956.3 | 876.1 | 271.1 | 101.0 | 34.0 | 26.6 | 22.3 | 17.0 | 11.7 |
| 72.5° | 1808.5 | 1756.4 | 1403.4 | 677.3 | 243.5 | 91.4 | 31.9 | 22.3 | 19.1 | 12.8 | 9.6 |
| 75° | 1217.4 | 1131.3 | 885.7 | 444.4 | 195.6 | 79.7 | 26.6 | 20.2 | 14.9 | 9.6 | 7.4 |
| 77.5° | 643.2 | 608.2 | 501.8 | 211.6 | 108.4 | 37.2 | 14.9 | 11.7 | 8.5 | 7.4 | 4.3 |
| 80° | 278.6 | 247.7 | 216.9 | 86.1 | 38.3 | 17.0 | 9.6 | 6.4 | 5.3 | 4.3 | 2.1 |
| 82.5° | 142.5 | 136.1 | 112.7 | 37.2 | 22.3 | 12.8 | 5.3 | 4.3 | 3.2 | 2.1 | 1.1 |
| 85° | 70.2 | 72.3 | 59.5 | 11.7 | 12.8 | 7.4 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.3 | 5.3 | 4.3 | 2.1 | 3.2 | 1.1 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 |
| 2.5° | 1319.5 | 1334.3 | 1308.8 | 1324.8 | 1317.3 | 1320.5 | 1323.7 | 1315.2 | 1317.3 | 1347.1 | 1348.2 |
| 5° | 1056.8 | 1085.5 | 1074.9 | 1089.8 | 1115.3 | 1102.6 | 1114.3 | 1112.1 | 1114.3 | 1118.5 | 1137.6 |
| 7.5° | 753.8 | 745.3 | 765.5 | 804.9 | 850.6 | 878.2 | 864.4 | 857.0 | 852.7 | 842.1 | 854.8 |
| 10° | 568.8 | 564.6 | 559.3 | 570.9 | 600.7 | 631.6 | 648.6 | 619.9 | 603.9 | 583.7 | 576.3 |
| 12.5° | 472.1 | 445.5 | 430.6 | 412.5 | 421.0 | 448.7 | 449.7 | 422.1 | 396.6 | 385.9 | 397.6 |
| 15° | 372.1 | 354.1 | 327.5 | 302.0 | 289.2 | 310.5 | 292.4 | 265.8 | 232.8 | 228.6 | 227.5 |
| 17.5° | 265.8 | 255.2 | 236.0 | 225.4 | 210.5 | 205.2 | 186.1 | 145.7 | 122.3 | 115.9 | 118.0 |
| 20° | 180.7 | 172.2 | 171.2 | 161.6 | 155.2 | 151.0 | 120.1 | 93.6 | 86.1 | 87.2 | 88.2 |
| 22.5° | 134.0 | 129.7 | 124.4 | 123.3 | 118.0 | 112.7 | 88.2 | 78.7 | 73.4 | 73.4 | 76.6 |
| 25° | 109.5 | 107.4 | 102.1 | 99.9 | 97.8 | 90.4 | 74.4 | 67.0 | 64.9 | 62.7 | 65.9 |
| 27.5° | 93.6 | 92.5 | 89.3 | 86.1 | 84.0 | 76.6 | 64.9 | 58.5 | 56.4 | 56.4 | 56.4 |
| 30° | 84.0 | 84.0 | 79.7 | 73.4 | 73.4 | 64.9 | 55.3 | 51.0 | 48.9 | 48.9 | 47.8 |
| 32.5° | 78.7 | 76.6 | 71.2 | 67.0 | 63.8 | 55.3 | 48.9 | 44.7 | 41.5 | 41.5 | 42.5 |
| 35° | 63.8 | 63.8 | 62.7 | 59.5 | 55.3 | 46.8 | 41.5 | 37.2 | 35.1 | 34.0 | 35.1 |
| 37.5° | 56.4 | 53.2 | 48.9 | 50.0 | 47.8 | 40.4 | 35.1 | 31.9 | 28.7 | 28.7 | 28.7 |
| 40° | 51.0 | 47.8 | 43.6 | 40.4 | 39.3 | 36.1 | 30.8 | 25.5 | 22.3 | 21.3 | 21.3 |
| 42.5° | 45.7 | 43.6 | 37.2 | 31.9 | 30.8 | 30.8 | 23.4 | 19.1 | 15.9 | 15.9 | 15.9 |
| 45° | 42.5 | 39.3 | 34.0 | 27.6 | 22.3 | 23.4 | 19.1 | 13.8 | 11.7 | 10.6 | 10.6 |
| 47.5° | 40.4 | 37.2 | 29.8 | 23.4 | 17.0 | 17.0 | 13.8 | 9.6 | 7.4 | 6.4 | 6.4 |
| 50° | 37.2 | 34.0 | 26.6 | 19.1 | 12.8 | 10.6 | 8.5 | 5.3 | 3.2 | 2.1 | 2.1 |
| 52.5° | 35.1 | 31.9 | 23.4 | 15.9 | 10.6 | 7.4 | 5.3 | 1.1 | 0.0 | 0.0 | 0.0 |
| 55° | 31.9 | 27.6 | 20.2 | 12.8 | 8.5 | 4.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 27.6 | 24.5 | 15.9 | 9.6 | 5.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 23.4 | 20.2 | 12.8 | 7.4 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 19.1 | 17.0 | 9.6 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 15.9 | 12.8 | 7.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 13.8 | 10.6 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 10.6 | 7.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7.4 | 5.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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 CATALOG NUMBER: CCW-SA-2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 |
| 2.5° | 1352.4 | 1384.3 | 1414.1 | 1422.6 | 1446.0 | 1510.8 | 1510.8 | 1541.7 | 1597.0 | 1617.2 | 1621.4 |
| 5° | 1140.8 | 1174.9 | 1181.2 | 1247.2 | 1278.0 | 1343.9 | 1387.5 | 1491.7 | 1554.4 | 1593.8 | 1618.2 |
| 7.5° | 867.6 | 879.3 | 903.7 | 965.4 | 1026.0 | 1105.7 | 1188.7 | 1321.6 | 1432.2 | 1476.8 | 1559.7 |
| 10° | 596.5 | 631.6 | 684.7 | 740.0 | 834.6 | 922.9 | 1030.3 | 1155.7 | 1291.8 | 1347.1 | 1418.3 |
| 12.5° | 401.9 | 450.8 | 535.9 | 614.5 | 701.7 | 791.0 | 893.1 | 1061.1 | 1215.3 | 1291.8 | 1363.0 |
| 15° | 235.0 | 294.5 | 367.9 | 495.5 | 611.3 | 711.3 | 813.4 | 983.5 | 1170.6 | 1269.5 | 1356.7 |
| 17.5° | 119.1 | 137.2 | 197.8 | 308.3 | 461.4 | 625.2 | 777.2 | 994.1 | 1204.6 | 1325.8 | 1398.1 |
| 20° | 89.3 | 94.6 | 111.6 | 163.7 | 315.8 | 516.7 | 743.2 | 1010.1 | 1299.3 | 1447.0 | 1486.4 |
| 22.5° | 77.6 | 81.9 | 89.3 | 106.3 | 177.6 | 395.5 | 695.3 | 1049.4 | 1427.9 | 1567.2 | 1650.1 |
| 25° | 65.9 | 70.2 | 76.6 | 87.2 | 113.8 | 269.0 | 636.9 | 1090.9 | 1542.7 | 1718.2 | 1795.8 |
| 27.5° | 57.4 | 60.6 | 67.0 | 75.5 | 92.5 | 171.2 | 535.9 | 1146.1 | 1718.2 | 1901.0 | 1921.2 |
| 30° | 48.9 | 52.1 | 57.4 | 67.0 | 78.7 | 121.2 | 393.4 | 1153.6 | 1814.9 | 1980.8 | 2037.1 |
| 32.5° | 42.5 | 43.6 | 50.0 | 58.5 | 65.9 | 95.7 | 276.4 | 1161.0 | 1886.1 | 2083.9 | 2095.6 |
| 35° | 35.1 | 37.2 | 43.6 | 48.9 | 57.4 | 75.5 | 209.5 | 1123.8 | 1978.6 | 2190.2 | 2187.0 |
| 37.5° | 28.7 | 31.9 | 36.1 | 40.4 | 46.8 | 63.8 | 166.9 | 1054.7 | 2094.5 | 2355.0 | 2255.1 |
| 40° | 22.3 | 25.5 | 29.8 | 35.1 | 39.3 | 57.4 | 125.5 | 950.5 | 2215.7 | 2435.8 | 2329.5 |
| 42.5° | 15.9 | 18.1 | 22.3 | 27.6 | 35.1 | 47.8 | 90.4 | 827.2 | 2263.6 | 2530.5 | 2418.8 |
| 45° | 11.7 | 13.8 | 17.0 | 23.4 | 36.1 | 38.3 | 62.7 | 714.5 | 2314.6 | 2571.9 | 2398.6 |
| 47.5° | 6.4 | 8.5 | 12.8 | 20.2 | 31.9 | 28.7 | 44.7 | 613.5 | 2373.1 | 2609.1 | 2414.6 |
| 50° | 2.1 | 3.2 | 7.4 | 21.3 | 25.5 | 22.3 | 35.1 | 559.3 | 2430.5 | 2616.6 | 2446.5 |
| 52.5° | 0.0 | 0.0 | 4.3 | 22.3 | 19.1 | 17.0 | 30.8 | 538.0 | 2415.6 | 2640.0 | 2426.3 |
| 55° | 0.0 | 0.0 | 1.1 | 9.6 | 10.6 | 12.8 | 25.5 | 536.9 | 2520.9 | 2647.4 | 2536.8 |
| 57.5° | 0.0 | 0.0 | 0.0 | 3.2 | 6.4 | 10.6 | 22.3 | 502.9 | 2587.9 | 2832.4 | 2685.7 |
| 60° | 0.0 | 0.0 | 0.0 | 1.1 | 4.3 | 7.4 | 17.0 | 473.1 | 2655.9 | 2915.3 | 2845.2 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 3.2 | 11.7 | 427.4 | 2518.8 | 2909.0 | 2999.3 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.4 | 338.1 | 2265.7 | 2756.9 | 2914.3 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 233.9 | 1984.0 | 2565.5 | 2758.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 141.4 | 1601.2 | 2249.8 | 2339.1 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.6 | 1143.0 | 1786.2 | 1919.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.5 | 707.0 | 1305.6 | 1469.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 458.2 | 988.8 | 1115.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 244.5 | 619.9 | 720.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 106.3 | 376.4 | 433.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.0 | 228.6 | 260.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.1 | 46.8 |
| 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° | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 | 1507.6 |
| 2.5° | 1623.5 | 1654.4 | 1666.1 | 1648.0 | 1650.1 | 1612.9 | 1607.6 | 1555.5 | 1534.2 | 1538.5 |
| 5° | 1698.0 | 1742.6 | 1767.1 | 1746.9 | 1701.1 | 1629.9 | 1565.1 | 1503.4 | 1465.1 | 1446.0 |
| 7.5° | 1680.9 | 1730.9 | 1761.7 | 1780.9 | 1728.8 | 1614.0 | 1515.1 | 1399.2 | 1350.3 | 1351.3 |
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| 12.5° | 1511.9 | 1627.8 | 1665.0 | 1684.1 | 1634.2 | 1542.7 | 1439.6 | 1296.1 | 1247.2 | 1217.4 |
| 15° | 1465.1 | 1551.2 | 1553.4 | 1583.1 | 1562.9 | 1562.9 | 1461.9 | 1321.6 | 1279.0 | 1246.1 |
| 17.5° | 1465.1 | 1484.2 | 1482.1 | 1492.8 | 1526.8 | 1567.2 | 1518.3 | 1424.7 | 1340.7 | 1335.4 |
| 20° | 1498.1 | 1438.5 | 1424.7 | 1429.0 | 1457.7 | 1577.8 | 1642.7 | 1525.7 | 1472.6 | 1455.5 |
| 22.5° | 1574.6 | 1443.8 | 1359.9 | 1345.0 | 1433.2 | 1576.7 | 1722.4 | 1685.2 | 1592.7 | 1578.9 |
| 25° | 1679.9 | 1434.3 | 1342.8 | 1323.7 | 1390.7 | 1615.0 | 1831.9 | 1839.4 | 1755.4 | 1726.7 |
| 27.5° | 1779.8 | 1476.8 | 1340.7 | 1336.5 | 1424.7 | 1606.5 | 1907.4 | 1962.7 | 1868.1 | 1844.7 |
| 30° | 1813.8 | 1519.3 | 1380.1 | 1323.7 | 1437.5 | 1637.4 | 1905.3 | 2049.9 | 1988.2 | 1993.5 |
| 32.5° | 1854.2 | 1561.9 | 1384.3 | 1362.0 | 1491.7 | 1687.3 | 1965.9 | 2190.2 | 2145.6 | 2082.8 |
| 35° | 1913.8 | 1619.3 | 1424.7 | 1404.5 | 1530.0 | 1732.0 | 1978.6 | 2293.4 | 2285.9 | 2212.6 |
| 37.5° | 1964.8 | 1675.6 | 1508.7 | 1511.9 | 1646.9 | 1804.3 | 2035.0 | 2419.9 | 2407.1 | 2357.2 |
| 40° | 2001.0 | 1754.3 | 1639.5 | 1648.0 | 1749.0 | 1885.1 | 2134.9 | 2483.7 | 2578.3 | 2504.9 |
| 42.5° | 2006.3 | 1824.5 | 1789.4 | 1857.4 | 1952.1 | 2010.5 | 2175.3 | 2527.3 | 2663.4 | 2615.5 |
| 45° | 2026.5 | 1936.1 | 2033.9 | 2083.9 | 2161.5 | 2121.1 | 2173.2 | 2601.7 | 2669.7 | 2645.3 |
| 47.5° | 2105.2 | 2139.2 | 2262.5 | 2414.6 | 2442.2 | 2309.3 | 2224.2 | 2613.4 | 2705.9 | 2702.7 |
| 50° | 2187.0 | 2357.2 | 2530.5 | 2631.5 | 2666.5 | 2439.0 | 2272.1 | 2603.8 | 2753.7 | 2728.2 |
| 52.5° | 2278.5 | 2546.4 | 2796.3 | 2920.7 | 2901.5 | 2582.6 | 2326.3 | 2681.4 | 2842.0 | 2833.5 |
| 55° | 2335.9 | 2631.5 | 2967.4 | 3140.7 | 3125.9 | 2743.1 | 2498.6 | 2793.1 | 2957.9 | 2936.6 |
| 57.5° | 2487.9 | 2769.7 | 3137.6 | 3218.4 | 3257.7 | 2953.6 | 2618.7 | 2975.9 | 3054.6 | 3078.0 |
| 60° | 2613.4 | 2860.1 | 3182.2 | 3299.2 | 3313.0 | 3079.1 | 2829.2 | 3164.1 | 3178.0 | 3099.3 |
| 62.5° | 2797.3 | 2895.1 | 3087.6 | 3192.8 | 3264.1 | 3150.3 | 3018.5 | 3265.1 | 3175.8 | 3170.5 |
| 65° | 2932.4 | 2780.3 | 2911.1 | 2969.6 | 3015.3 | 3041.9 | 3208.8 | 3334.2 | 3136.5 | 3033.4 |
| 67.5° | 2856.9 | 2563.4 | 2539.0 | 2542.2 | 2556.0 | 2716.5 | 3145.0 | 3165.2 | 2917.5 | 2832.4 |
| 70° | 2514.5 | 2103.0 | 2070.1 | 2095.6 | 2026.5 | 2220.0 | 2886.6 | 2877.1 | 2574.0 | 2485.8 |
| 72.5° | 2033.9 | 1533.2 | 1476.8 | 1511.9 | 1527.8 | 1733.0 | 2428.4 | 2181.7 | 1877.6 | 1808.5 |
| 75° | 1616.1 | 1123.8 | 948.4 | 1033.4 | 1087.7 | 1262.0 | 1896.8 | 1482.1 | 1310.9 | 1217.4 |
| 77.5° | 1269.5 | 850.6 | 737.9 | 703.8 | 753.8 | 917.6 | 1380.1 | 778.3 | 686.8 | 643.2 |
| 80° | 804.9 | 625.2 | 678.3 | 629.4 | 650.7 | 654.9 | 718.7 | 354.1 | 281.8 | 278.6 |
| 82.5° | 484.8 | 427.4 | 508.2 | 279.6 | 509.3 | 455.1 | 298.8 | 160.5 | 142.5 | 142.5 |
| 85° | 343.4 | 264.7 | 175.4 | 113.8 | 226.5 | 249.9 | 115.9 | 82.9 | 72.3 | 70.2 |
| 87.5° | 172.2 | 81.9 | 39.3 | 25.5 | 28.7 | 46.8 | 13.8 | 6.4 | 6.4 | 5.3 |
| 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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