

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: P677482

Luminaire Tested: **CCW-SA-1B-835-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677482
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

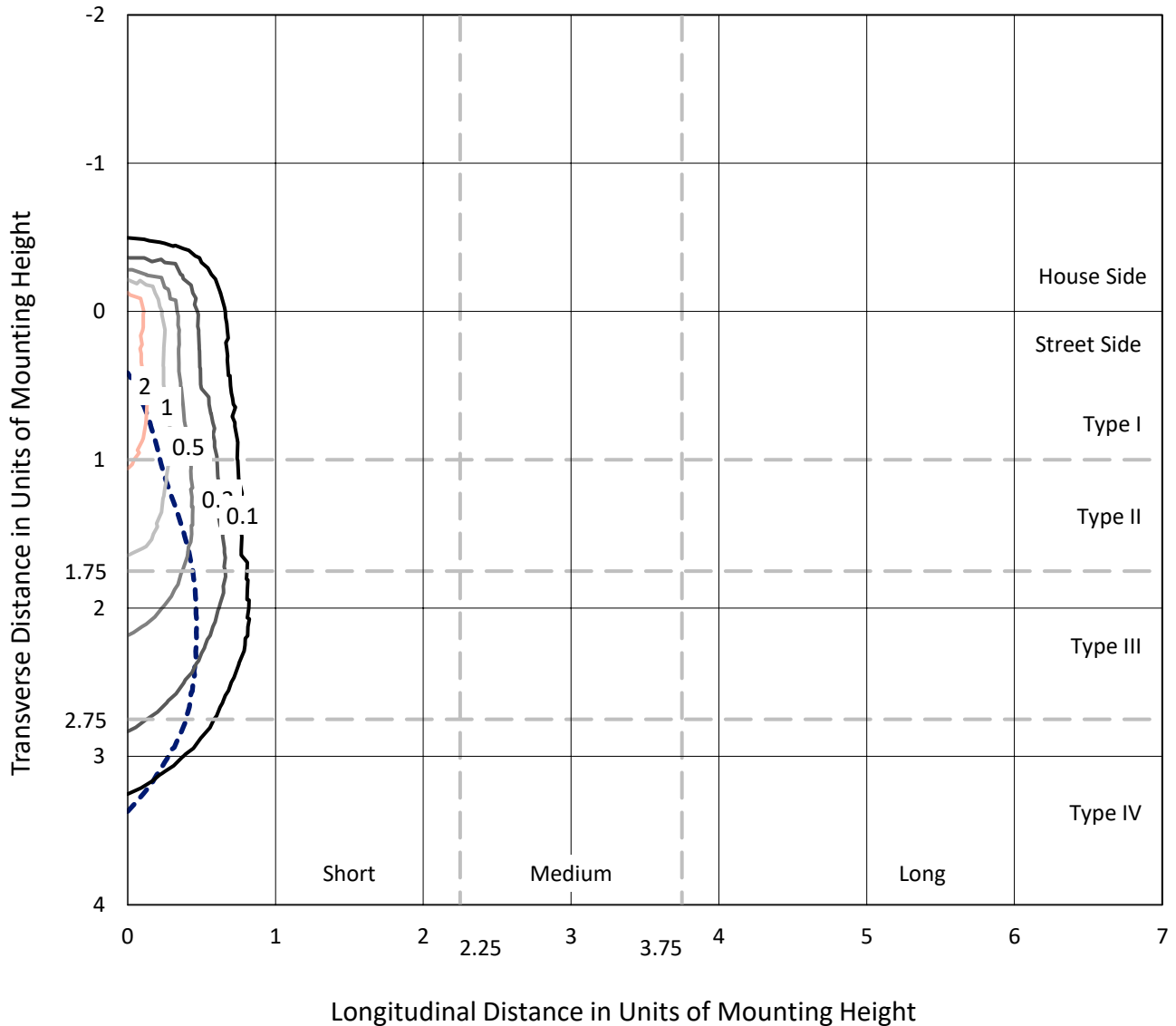
Lumens per Lamp: N/A
Luminaire Lumens: 2045.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

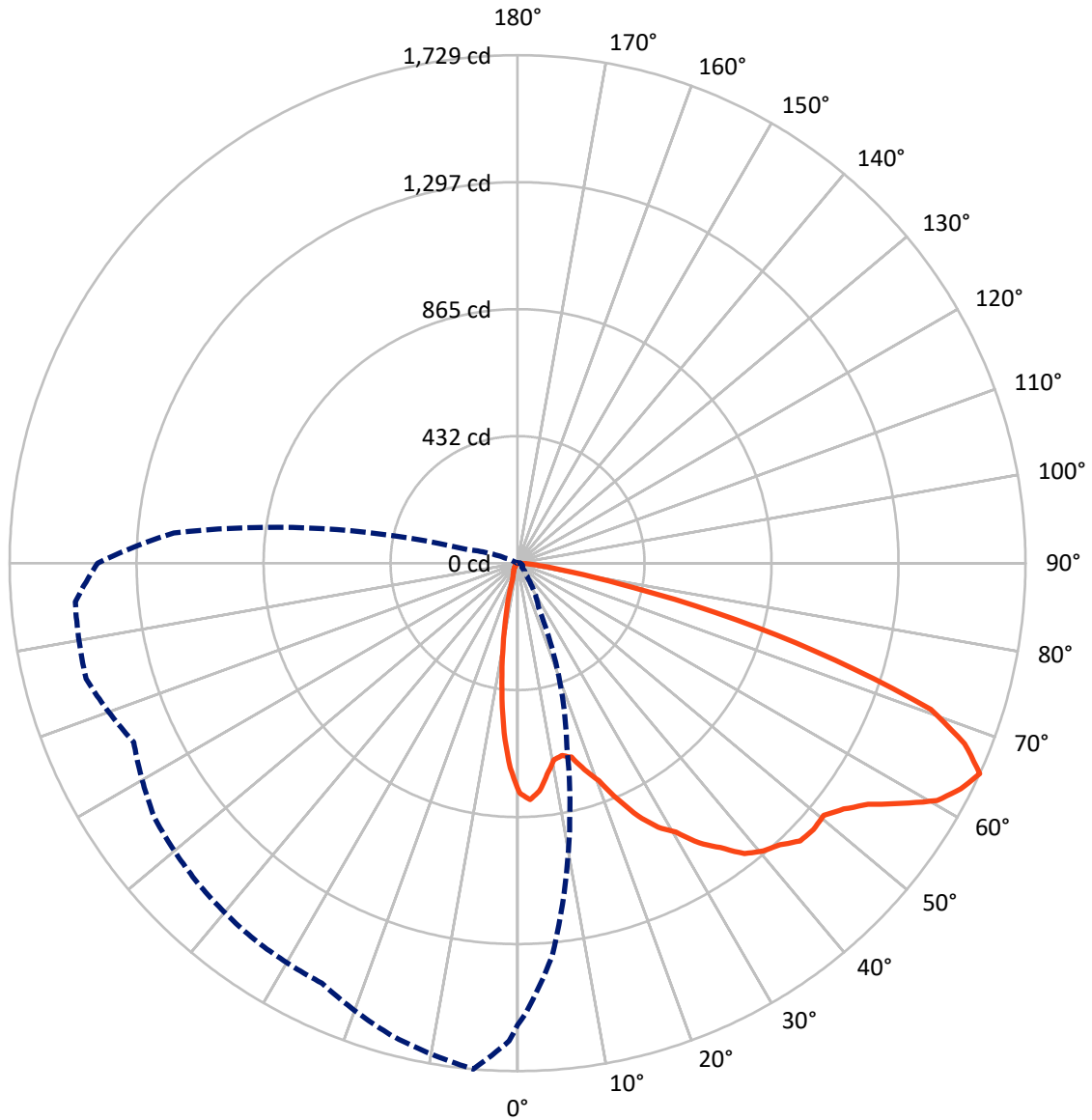
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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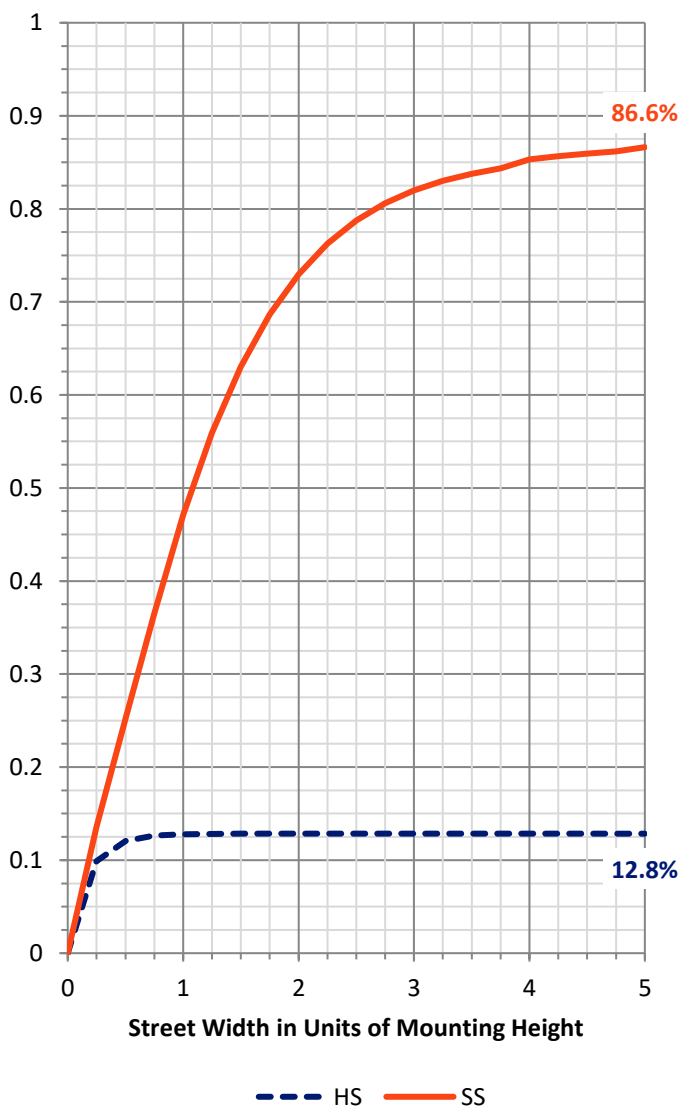
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 265.5 | 0.0 | 265.5 |
| | % Fixture | 13.0 | 0.0 | 13.0 |
| Street Side | Lumens | 1779.5 | 0.0 | 1779.5 |
| | % Fixture | 87.0 | 0.0 | 87.0 |
| Total | Lumens | 2045.1 | 0.0 | 2045.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.2 | 2.9 |
| 10°-20° | 114.7 | 5.6 |
| 20°-30° | 159.7 | 7.8 |
| 30°-40° | 226.9 | 11.1 |
| 40°-50° | 314.7 | 15.4 |
| 50°-60° | 428.8 | 21.0 |
| 60°-70° | 471.4 | 23.1 |
| 70°-80° | 231.7 | 11.3 |
| 80°-90° | 37.8 | 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° | 2045.1 | 100.0 |
| 0°-180° | 2045.1 | 100.0 |

Coefficient of Utilization



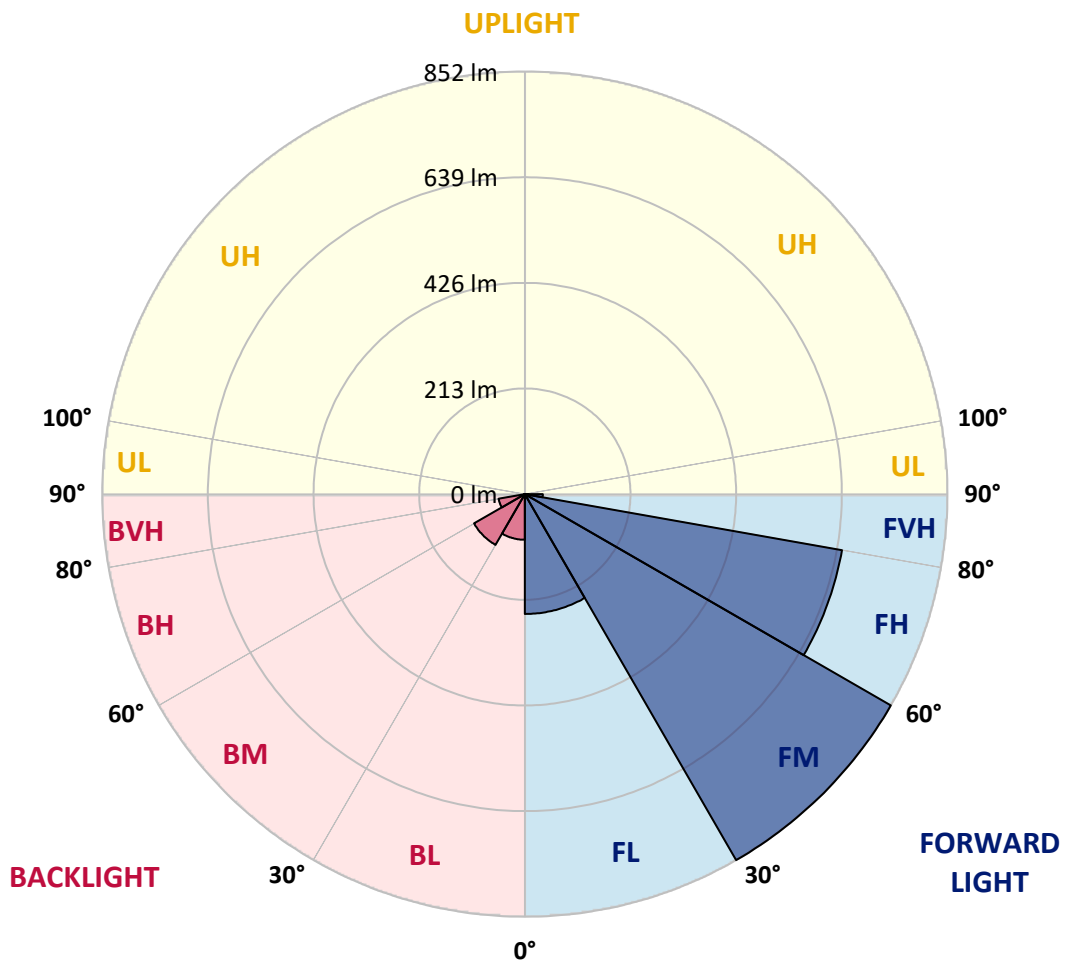
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 241.7 | 11.8 | | | |
| FM (30°-60°) | 852.2 | 41.7 | | | |
| FH (60°-80°) | 649.5 | 31.8 | | | G0/660 |
| FVH (80°-90°) | 36.1 | 1.8 | | | G1/100 |
| BL (0°-30°) | 91.9 | 4.5 | B0/110 | | |
| BM (30°-60°) | 118.2 | 5.8 | B0/220 | | |
| BH (60°-80°) | 53.7 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.7 | 0.1 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 |
| 2.5° | 797.8 | 807.2 | 798.4 | 767.5 | 762.0 | 747.1 | 724.5 | 722.8 | 699.1 | 701.9 | 689.2 |
| 5° | 749.8 | 759.2 | 740.5 | 699.7 | 661.6 | 631.3 | 613.1 | 580.6 | 573.4 | 557.4 | 557.4 |
| 7.5° | 700.8 | 700.2 | 668.2 | 634.1 | 577.3 | 521.6 | 496.2 | 449.4 | 421.8 | 406.9 | 392.6 |
| 10° | 660.0 | 651.2 | 631.3 | 560.7 | 499.0 | 441.1 | 409.7 | 378.8 | 350.1 | 325.3 | 300.5 |
| 12.5° | 631.3 | 636.8 | 605.4 | 528.8 | 448.8 | 408.6 | 374.9 | 342.4 | 308.2 | 280.1 | 252.5 |
| 15° | 646.2 | 637.4 | 600.4 | 521.6 | 440.5 | 385.4 | 340.7 | 301.0 | 263.0 | 226.1 | 205.1 |
| 17.5° | 692.5 | 669.9 | 626.3 | 521.6 | 423.4 | 350.1 | 296.1 | 249.2 | 208.4 | 175.3 | 149.4 |
| 20° | 754.8 | 728.9 | 682.0 | 540.9 | 410.8 | 324.2 | 250.3 | 191.3 | 148.9 | 118.0 | 98.1 |
| 22.5° | 818.8 | 798.4 | 727.8 | 548.6 | 395.9 | 289.5 | 197.4 | 138.4 | 99.2 | 79.4 | 69.5 |
| 25° | 895.4 | 866.7 | 789.5 | 579.5 | 373.8 | 255.8 | 155.5 | 96.5 | 73.9 | 63.4 | 57.3 |
| 27.5° | 956.6 | 951.6 | 847.4 | 598.2 | 357.3 | 228.3 | 123.0 | 76.6 | 61.2 | 53.5 | 49.6 |
| 30° | 1033.8 | 1006.8 | 918.0 | 635.7 | 338.5 | 196.8 | 102.6 | 68.9 | 56.2 | 48.0 | 45.2 |
| 32.5° | 1080.1 | 1067.4 | 955.0 | 656.7 | 317.6 | 170.9 | 88.2 | 60.6 | 51.3 | 45.2 | 42.5 |
| 35° | 1147.4 | 1122.0 | 1007.9 | 669.9 | 306.6 | 156.0 | 79.4 | 55.1 | 43.0 | 36.9 | 33.6 |
| 37.5° | 1222.4 | 1213.0 | 1071.3 | 669.3 | 290.6 | 147.2 | 73.3 | 51.3 | 40.8 | 34.2 | 30.3 |
| 40° | 1299.0 | 1261.0 | 1109.9 | 684.8 | 282.3 | 140.6 | 68.9 | 49.1 | 38.6 | 32.5 | 27.6 |
| 42.5° | 1356.3 | 1312.8 | 1154.5 | 679.3 | 272.4 | 129.0 | 67.3 | 45.8 | 36.9 | 29.8 | 25.4 |
| 45° | 1371.8 | 1356.3 | 1194.8 | 677.6 | 265.2 | 119.6 | 64.5 | 45.2 | 35.8 | 28.1 | 23.7 |
| 47.5° | 1401.6 | 1391.1 | 1244.4 | 680.4 | 259.7 | 112.5 | 57.9 | 46.3 | 34.2 | 26.5 | 22.6 |
| 50° | 1414.8 | 1396.0 | 1284.7 | 687.0 | 247.0 | 103.7 | 51.8 | 48.5 | 33.6 | 25.9 | 21.5 |
| 52.5° | 1469.4 | 1452.8 | 1339.8 | 705.7 | 236.5 | 92.1 | 45.8 | 46.3 | 34.7 | 24.3 | 20.4 |
| 55° | 1522.8 | 1504.1 | 1424.7 | 748.7 | 221.6 | 82.7 | 39.1 | 40.8 | 33.1 | 22.1 | 18.2 |
| 57.5° | 1596.2 | 1565.3 | 1481.5 | 766.4 | 208.4 | 70.0 | 34.7 | 33.6 | 30.9 | 19.8 | 16.0 |
| 60° | 1607.2 | 1619.9 | 1473.2 | 755.4 | 194.6 | 61.8 | 30.3 | 25.9 | 33.1 | 17.6 | 13.8 |
| 62.5° | 1644.1 | 1591.2 | 1434.6 | 730.0 | 184.7 | 56.8 | 27.0 | 21.5 | 28.7 | 15.4 | 11.6 |
| 65° | 1573.0 | 1533.9 | 1344.2 | 648.4 | 172.0 | 57.3 | 23.7 | 17.6 | 18.2 | 12.7 | 9.4 |
| 67.5° | 1468.8 | 1437.9 | 1194.2 | 559.6 | 159.3 | 56.2 | 21.0 | 15.4 | 13.8 | 11.0 | 8.3 |
| 70° | 1289.1 | 1222.4 | 1014.5 | 454.3 | 140.6 | 52.4 | 17.6 | 13.8 | 11.6 | 8.8 | 6.1 |
| 72.5° | 937.9 | 910.8 | 727.8 | 351.2 | 126.3 | 47.4 | 16.5 | 11.6 | 9.9 | 6.6 | 5.0 |
| 75° | 631.3 | 586.6 | 459.3 | 230.5 | 101.4 | 41.4 | 13.8 | 10.5 | 7.7 | 5.0 | 3.9 |
| 77.5° | 333.6 | 315.4 | 260.2 | 109.7 | 56.2 | 19.3 | 7.7 | 6.1 | 4.4 | 3.9 | 2.2 |
| 80° | 144.5 | 128.5 | 112.5 | 44.7 | 19.8 | 8.8 | 5.0 | 3.3 | 2.8 | 2.2 | 1.1 |
| 82.5° | 73.9 | 70.6 | 58.4 | 19.3 | 11.6 | 6.6 | 2.8 | 2.2 | 1.7 | 1.1 | 0.6 |
| 85° | 36.4 | 37.5 | 30.9 | 6.1 | 6.6 | 3.9 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.8 | 2.8 | 2.2 | 1.1 | 1.7 | 0.6 | 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° | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 |
| 2.5° | 684.2 | 692.0 | 678.7 | 687.0 | 683.1 | 684.8 | 686.4 | 682.0 | 683.1 | 698.6 | 699.1 |
| 5° | 548.0 | 562.9 | 557.4 | 565.1 | 578.4 | 571.8 | 577.8 | 576.7 | 577.8 | 580.0 | 590.0 |
| 7.5° | 390.9 | 386.5 | 397.0 | 417.4 | 441.1 | 455.4 | 448.3 | 444.4 | 442.2 | 436.7 | 443.3 |
| 10° | 295.0 | 292.8 | 290.0 | 296.1 | 311.5 | 327.5 | 336.3 | 321.4 | 313.2 | 302.7 | 298.8 |
| 12.5° | 244.8 | 231.0 | 223.3 | 213.9 | 218.3 | 232.7 | 233.2 | 218.9 | 205.7 | 200.1 | 206.2 |
| 15° | 193.0 | 183.6 | 169.8 | 156.6 | 150.0 | 161.0 | 151.6 | 137.8 | 120.7 | 118.5 | 118.0 |
| 17.5° | 137.8 | 132.3 | 122.4 | 116.9 | 109.2 | 106.4 | 96.5 | 75.5 | 63.4 | 60.1 | 61.2 |
| 20° | 93.7 | 89.3 | 88.8 | 83.8 | 80.5 | 78.3 | 62.3 | 48.5 | 44.7 | 45.2 | 45.8 |
| 22.5° | 69.5 | 67.3 | 64.5 | 64.0 | 61.2 | 58.4 | 45.8 | 40.8 | 38.0 | 38.0 | 39.7 |
| 25° | 56.8 | 55.7 | 52.9 | 51.8 | 50.7 | 46.9 | 38.6 | 34.7 | 33.6 | 32.5 | 34.2 |
| 27.5° | 48.5 | 48.0 | 46.3 | 44.7 | 43.6 | 39.7 | 33.6 | 30.3 | 29.2 | 29.2 | 29.2 |
| 30° | 43.6 | 43.6 | 41.4 | 38.0 | 38.0 | 33.6 | 28.7 | 26.5 | 25.4 | 25.4 | 24.8 |
| 32.5° | 40.8 | 39.7 | 36.9 | 34.7 | 33.1 | 28.7 | 25.4 | 23.2 | 21.5 | 21.5 | 22.1 |
| 35° | 33.1 | 33.1 | 32.5 | 30.9 | 28.7 | 24.3 | 21.5 | 19.3 | 18.2 | 17.6 | 18.2 |
| 37.5° | 29.2 | 27.6 | 25.4 | 25.9 | 24.8 | 21.0 | 18.2 | 16.5 | 14.9 | 14.9 | 14.9 |
| 40° | 26.5 | 24.8 | 22.6 | 21.0 | 20.4 | 18.7 | 16.0 | 13.2 | 11.6 | 11.0 | 11.0 |
| 42.5° | 23.7 | 22.6 | 19.3 | 16.5 | 16.0 | 16.0 | 12.1 | 9.9 | 8.3 | 8.3 | 8.3 |
| 45° | 22.1 | 20.4 | 17.6 | 14.3 | 11.6 | 12.1 | 9.9 | 7.2 | 6.1 | 5.5 | 5.5 |
| 47.5° | 21.0 | 19.3 | 15.4 | 12.1 | 8.8 | 8.8 | 7.2 | 5.0 | 3.9 | 3.3 | 3.3 |
| 50° | 19.3 | 17.6 | 13.8 | 9.9 | 6.6 | 5.5 | 4.4 | 2.8 | 1.7 | 1.1 | 1.1 |
| 52.5° | 18.2 | 16.5 | 12.1 | 8.3 | 5.5 | 3.9 | 2.8 | 0.6 | 0.0 | 0.0 | 0.0 |
| 55° | 16.5 | 14.3 | 10.5 | 6.6 | 4.4 | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 14.3 | 12.7 | 8.3 | 5.0 | 2.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 12.1 | 10.5 | 6.6 | 3.9 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 9.9 | 8.8 | 5.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 8.3 | 6.6 | 3.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7.2 | 5.5 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 5.5 | 3.9 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3.9 | 2.8 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 2.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.6 | 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-1B-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 |
| 2.5° | 701.3 | 717.9 | 733.3 | 737.7 | 749.8 | 783.5 | 783.5 | 799.5 | 828.1 | 838.6 | 840.8 |
| 5° | 591.6 | 609.3 | 612.6 | 646.7 | 662.7 | 696.9 | 719.5 | 773.6 | 806.1 | 826.5 | 839.2 |
| 7.5° | 449.9 | 456.0 | 468.7 | 500.6 | 532.1 | 573.4 | 616.4 | 685.3 | 742.7 | 765.8 | 808.8 |
| 10° | 309.3 | 327.5 | 355.1 | 383.7 | 432.8 | 478.6 | 534.3 | 599.3 | 669.9 | 698.6 | 735.5 |
| 12.5° | 208.4 | 233.8 | 277.9 | 318.7 | 363.9 | 410.2 | 463.1 | 550.3 | 630.2 | 669.9 | 706.8 |
| 15° | 121.9 | 152.7 | 190.8 | 256.9 | 317.0 | 368.9 | 421.8 | 510.0 | 607.0 | 658.3 | 703.5 |
| 17.5° | 61.8 | 71.1 | 102.6 | 159.9 | 239.3 | 324.2 | 403.0 | 515.5 | 624.7 | 687.5 | 725.0 |
| 20° | 46.3 | 49.1 | 57.9 | 84.9 | 163.8 | 268.0 | 385.4 | 523.8 | 673.8 | 750.4 | 770.8 |
| 22.5° | 40.2 | 42.5 | 46.3 | 55.1 | 92.1 | 205.1 | 360.6 | 544.2 | 740.5 | 812.7 | 855.7 |
| 25° | 34.2 | 36.4 | 39.7 | 45.2 | 59.0 | 139.5 | 330.3 | 565.7 | 800.0 | 891.0 | 931.2 |
| 27.5° | 29.8 | 31.4 | 34.7 | 39.1 | 48.0 | 88.8 | 277.9 | 594.4 | 891.0 | 985.8 | 996.3 |
| 30° | 25.4 | 27.0 | 29.8 | 34.7 | 40.8 | 62.9 | 204.0 | 598.2 | 941.2 | 1027.2 | 1056.4 |
| 32.5° | 22.1 | 22.6 | 25.9 | 30.3 | 34.2 | 49.6 | 143.4 | 602.1 | 978.1 | 1080.7 | 1086.7 |
| 35° | 18.2 | 19.3 | 22.6 | 25.4 | 29.8 | 39.1 | 108.6 | 582.8 | 1026.1 | 1135.8 | 1134.1 |
| 37.5° | 14.9 | 16.5 | 18.7 | 21.0 | 24.3 | 33.1 | 86.6 | 546.9 | 1086.2 | 1221.3 | 1169.4 |
| 40° | 11.6 | 13.2 | 15.4 | 18.2 | 20.4 | 29.8 | 65.1 | 492.9 | 1149.0 | 1263.2 | 1208.0 |
| 42.5° | 8.3 | 9.4 | 11.6 | 14.3 | 18.2 | 24.8 | 46.9 | 429.0 | 1173.8 | 1312.2 | 1254.3 |
| 45° | 6.1 | 7.2 | 8.8 | 12.1 | 18.7 | 19.8 | 32.5 | 370.5 | 1200.3 | 1333.7 | 1243.9 |
| 47.5° | 3.3 | 4.4 | 6.6 | 10.5 | 16.5 | 14.9 | 23.2 | 318.1 | 1230.6 | 1353.0 | 1252.1 |
| 50° | 1.1 | 1.7 | 3.9 | 11.0 | 13.2 | 11.6 | 18.2 | 290.0 | 1260.4 | 1356.9 | 1268.7 |
| 52.5° | 0.0 | 0.0 | 2.2 | 11.6 | 9.9 | 8.8 | 16.0 | 279.0 | 1252.7 | 1369.0 | 1258.2 |
| 55° | 0.0 | 0.0 | 0.6 | 5.0 | 5.5 | 6.6 | 13.2 | 278.4 | 1307.3 | 1372.9 | 1315.5 |
| 57.5° | 0.0 | 0.0 | 0.0 | 1.7 | 3.3 | 5.5 | 11.6 | 260.8 | 1342.0 | 1468.8 | 1392.7 |
| 60° | 0.0 | 0.0 | 0.0 | 0.6 | 2.2 | 3.9 | 8.8 | 245.4 | 1377.3 | 1511.8 | 1475.4 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.7 | 6.1 | 221.6 | 1306.2 | 1508.5 | 1555.4 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 175.3 | 1174.9 | 1429.7 | 1511.3 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 121.3 | 1028.8 | 1330.4 | 1430.2 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 73.3 | 830.3 | 1166.7 | 1213.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.4 | 592.7 | 926.3 | 995.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.7 | 366.7 | 677.1 | 762.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 237.6 | 512.8 | 578.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 126.8 | 321.4 | 373.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55.1 | 195.2 | 225.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.6 | 118.5 | 135.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.2 | 24.3 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 | 781.8 |
| 2.5° | 841.9 | 857.9 | 864.0 | 854.6 | 855.7 | 836.4 | 833.7 | 806.6 | 795.6 | 797.8 |
| 5° | 880.5 | 903.7 | 916.4 | 905.9 | 882.2 | 845.2 | 811.6 | 779.6 | 759.8 | 749.8 |
| 7.5° | 871.7 | 897.6 | 913.6 | 923.5 | 896.5 | 837.0 | 785.7 | 725.6 | 700.2 | 700.8 |
| 10° | 823.2 | 877.2 | 909.7 | 897.1 | 884.4 | 824.8 | 745.4 | 680.4 | 657.8 | 660.0 |
| 12.5° | 784.0 | 844.1 | 863.4 | 873.4 | 847.4 | 800.0 | 746.5 | 672.1 | 646.7 | 631.3 |
| 15° | 759.8 | 804.4 | 805.5 | 821.0 | 810.5 | 810.5 | 758.1 | 685.3 | 663.3 | 646.2 |
| 17.5° | 759.8 | 769.7 | 768.6 | 774.1 | 791.7 | 812.7 | 787.3 | 738.8 | 695.3 | 692.5 |
| 20° | 776.9 | 746.0 | 738.8 | 741.0 | 755.9 | 818.2 | 851.8 | 791.2 | 763.6 | 754.8 |
| 22.5° | 816.6 | 748.7 | 705.2 | 697.5 | 743.2 | 817.7 | 893.2 | 873.9 | 825.9 | 818.8 |
| 25° | 871.1 | 743.8 | 696.4 | 686.4 | 721.2 | 837.5 | 950.0 | 953.8 | 910.3 | 895.4 |
| 27.5° | 923.0 | 765.8 | 695.3 | 693.1 | 738.8 | 833.1 | 989.1 | 1017.8 | 968.7 | 956.6 |
| 30° | 940.6 | 787.9 | 715.7 | 686.4 | 745.4 | 849.1 | 988.0 | 1063.0 | 1031.0 | 1033.8 |
| 32.5° | 961.6 | 809.9 | 717.9 | 706.3 | 773.6 | 875.0 | 1019.5 | 1135.8 | 1112.6 | 1080.1 |
| 35° | 992.4 | 839.7 | 738.8 | 728.3 | 793.4 | 898.2 | 1026.1 | 1189.3 | 1185.4 | 1147.4 |
| 37.5° | 1018.9 | 868.9 | 782.4 | 784.0 | 854.1 | 935.7 | 1055.3 | 1254.9 | 1248.3 | 1222.4 |
| 40° | 1037.7 | 909.7 | 850.2 | 854.6 | 907.0 | 977.6 | 1107.1 | 1288.0 | 1337.0 | 1299.0 |
| 42.5° | 1040.4 | 946.1 | 927.9 | 963.2 | 1012.3 | 1042.6 | 1128.1 | 1310.6 | 1381.2 | 1356.3 |
| 45° | 1050.9 | 1004.0 | 1054.7 | 1080.7 | 1120.9 | 1100.0 | 1127.0 | 1349.2 | 1384.5 | 1371.8 |
| 47.5° | 1091.7 | 1109.3 | 1173.3 | 1252.1 | 1266.5 | 1197.5 | 1153.4 | 1355.2 | 1403.2 | 1401.6 |
| 50° | 1134.1 | 1222.4 | 1312.2 | 1364.6 | 1382.8 | 1264.8 | 1178.3 | 1350.3 | 1428.0 | 1414.8 |
| 52.5° | 1181.6 | 1320.5 | 1450.1 | 1514.6 | 1504.7 | 1339.2 | 1206.4 | 1390.5 | 1473.8 | 1469.4 |
| 55° | 1211.3 | 1364.6 | 1538.8 | 1628.7 | 1621.0 | 1422.5 | 1295.7 | 1448.4 | 1533.9 | 1522.8 |
| 57.5° | 1290.2 | 1436.3 | 1627.1 | 1669.0 | 1689.4 | 1531.7 | 1358.0 | 1543.2 | 1584.1 | 1596.2 |
| 60° | 1355.2 | 1483.2 | 1650.2 | 1710.9 | 1718.0 | 1596.7 | 1467.2 | 1640.8 | 1648.0 | 1607.2 |
| 62.5° | 1450.6 | 1501.3 | 1601.1 | 1655.7 | 1692.7 | 1633.7 | 1565.3 | 1693.2 | 1646.9 | 1644.1 |
| 65° | 1520.6 | 1441.8 | 1509.6 | 1539.9 | 1563.6 | 1577.4 | 1664.0 | 1729.1 | 1626.5 | 1573.0 |
| 67.5° | 1481.5 | 1329.3 | 1316.6 | 1318.3 | 1325.5 | 1408.7 | 1630.9 | 1641.4 | 1512.9 | 1468.8 |
| 70° | 1304.0 | 1090.6 | 1073.5 | 1086.7 | 1050.9 | 1151.2 | 1496.9 | 1492.0 | 1334.8 | 1289.1 |
| 72.5° | 1054.7 | 795.1 | 765.8 | 784.0 | 792.3 | 898.7 | 1259.3 | 1131.4 | 973.7 | 937.9 |
| 75° | 838.1 | 582.8 | 491.8 | 535.9 | 564.0 | 654.5 | 983.6 | 768.6 | 679.8 | 631.3 |
| 77.5° | 658.3 | 441.1 | 382.6 | 365.0 | 390.9 | 475.8 | 715.7 | 403.6 | 356.2 | 333.6 |
| 80° | 417.4 | 324.2 | 351.8 | 326.4 | 337.4 | 339.6 | 372.7 | 183.6 | 146.1 | 144.5 |
| 82.5° | 251.4 | 221.6 | 263.5 | 145.0 | 264.1 | 236.0 | 154.9 | 83.3 | 73.9 | 73.9 |
| 85° | 178.1 | 137.3 | 91.0 | 59.0 | 117.4 | 129.6 | 60.1 | 43.0 | 37.5 | 36.4 |
| 87.5° | 89.3 | 42.5 | 20.4 | 13.2 | 14.9 | 24.3 | 7.2 | 3.3 | 3.3 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)