

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: P676185

Luminaire Tested: **CCW-SA-1A-835-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676185
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

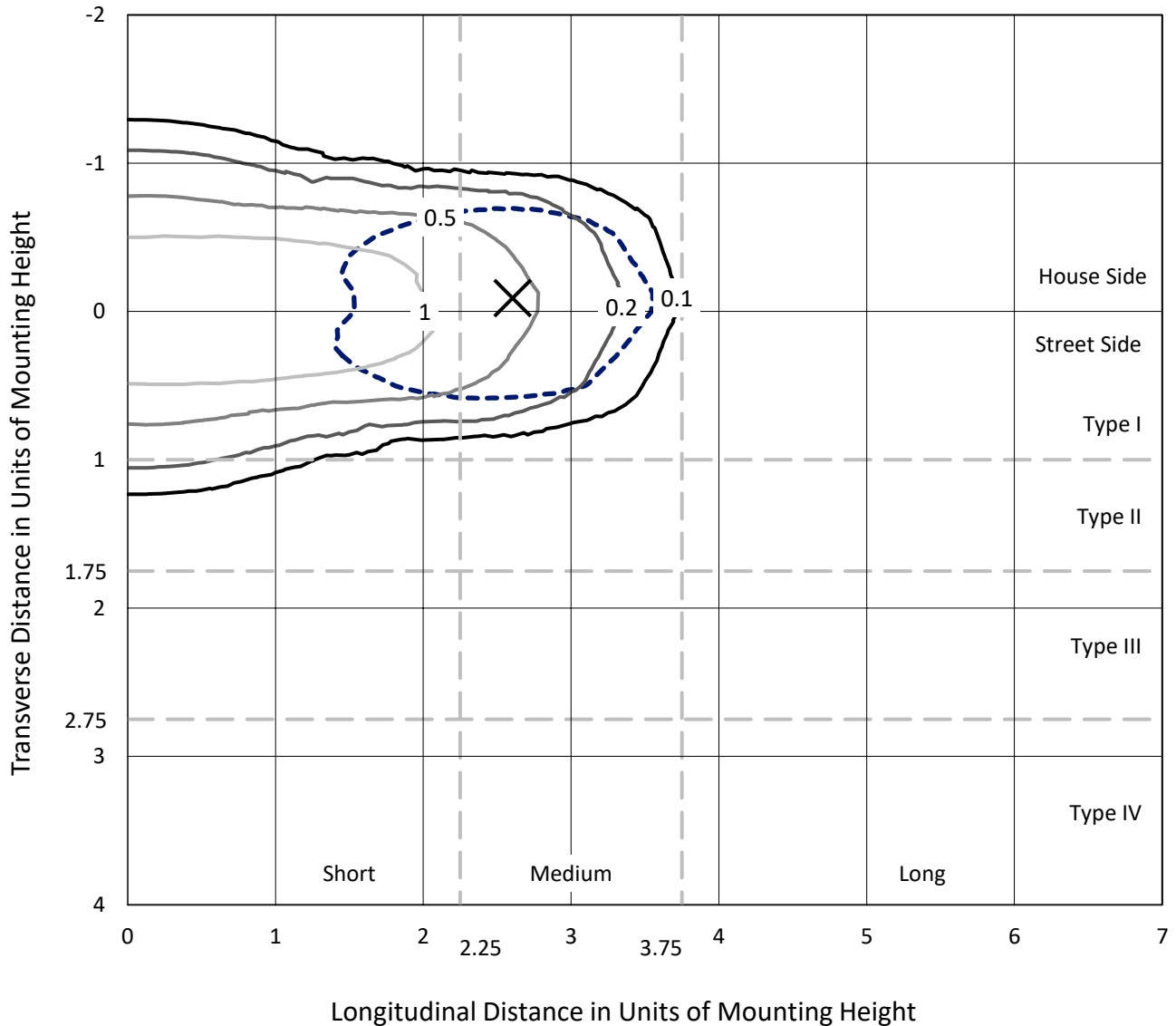
Lumens per Lamp: N/A
Luminaire Lumens: 2195.2 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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

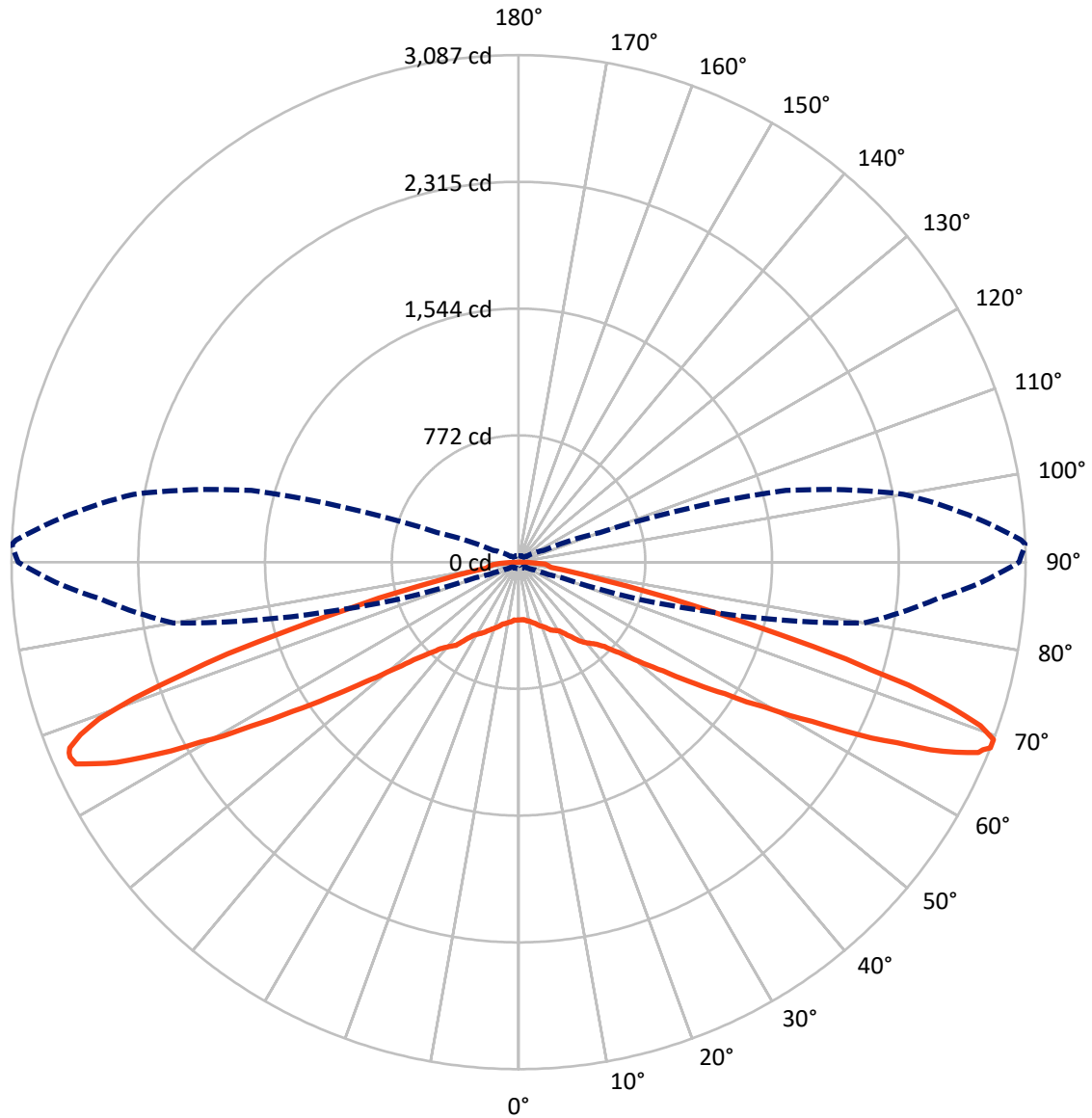
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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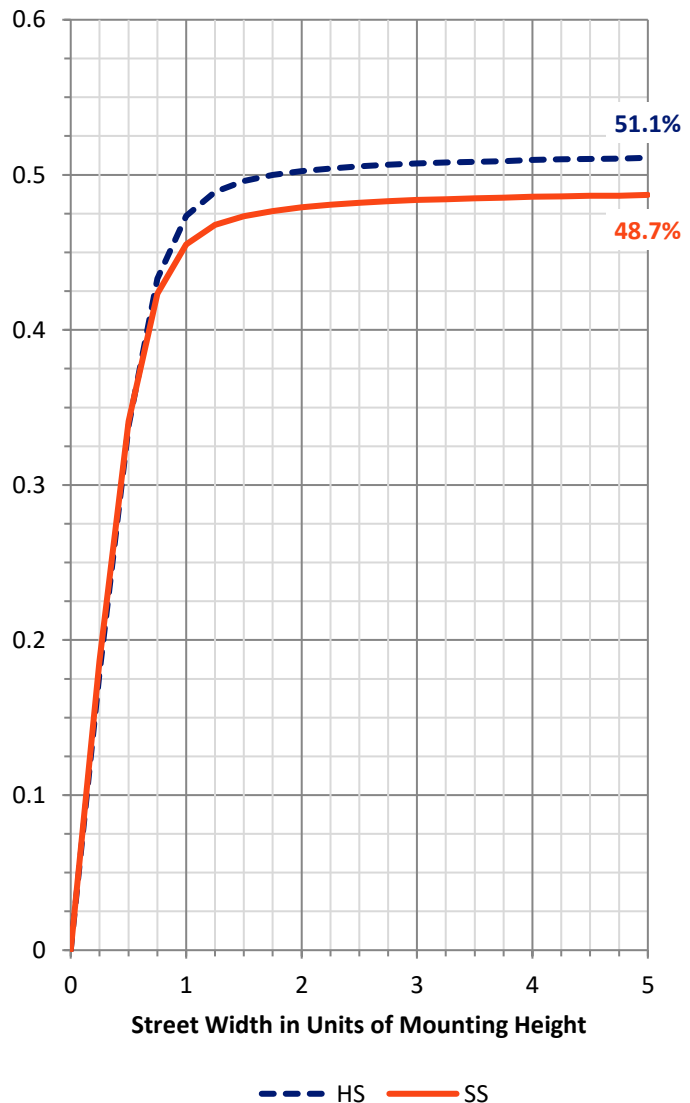
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1130.5 | 0.0 | 1130.5 |
| | % Fixture | 51.5 | 0.0 | 51.5 |
| Street Side | Lumens | 1064.7 | 0.0 | 1064.7 |
| | % Fixture | 48.5 | 0.0 | 48.5 |
| Total | Lumens | 2195.2 | 0.0 | 2195.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.2 | 1.6 |
| 10°-20° | 113.9 | 5.2 |
| 20°-30° | 194.3 | 8.9 |
| 30°-40° | 271.4 | 12.4 |
| 40°-50° | 345.2 | 15.7 |
| 50°-60° | 436.4 | 19.9 |
| 60°-70° | 538.2 | 24.5 |
| 70°-80° | 235.1 | 10.7 |
| 80°-90° | 25.5 | 1.2 |
| 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° | 2195.2 | 100.0 |
| 0°-180° | 2195.2 | 100.0 |



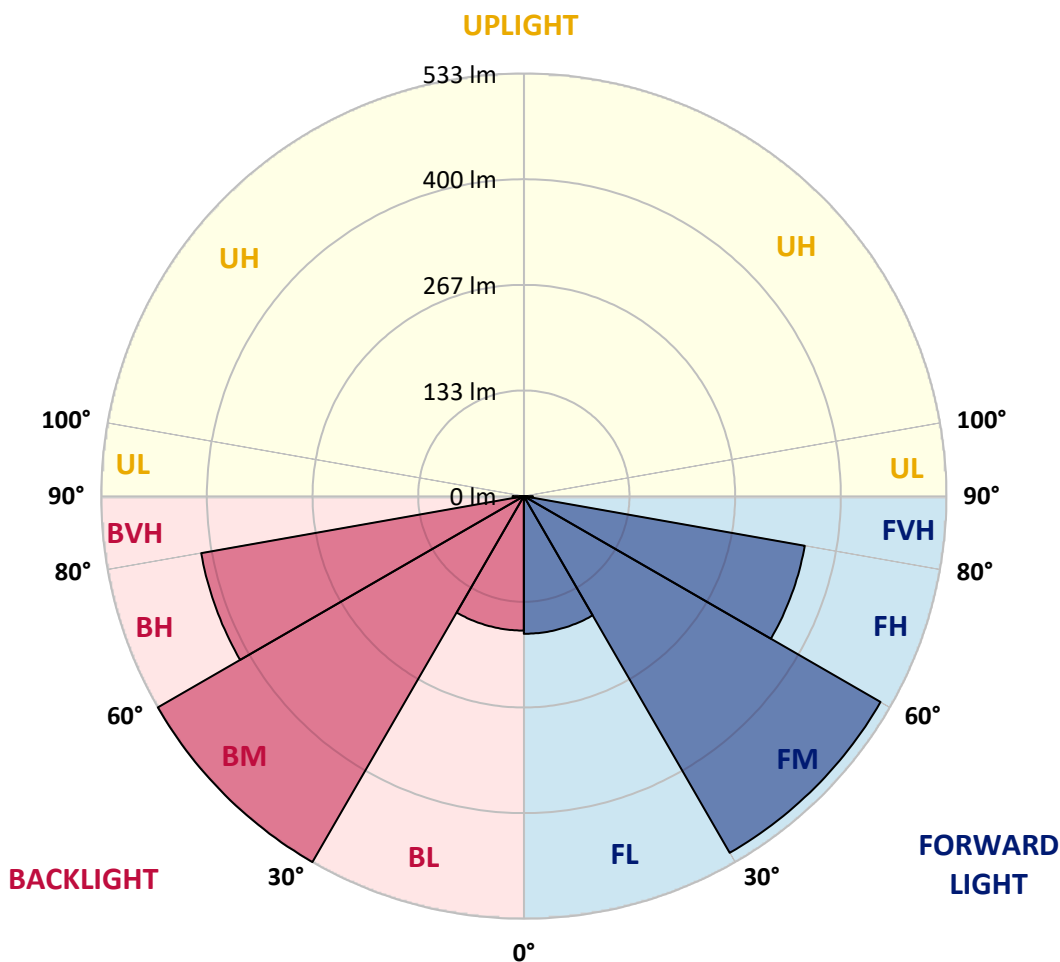
REPORT NUMBER: P676185
 CATALOG NUMBER: CCW-SA-1A-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 173.7 | 7.9 | | | |
| FM (30°-60°) | 519.7 | 23.7 | | | |
| FH (60°-80°) | 360.0 | 16.4 | | | G0/660 |
| FVH (80°-90°) | 11.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 169.6 | 7.7 | B1/500 | | |
| BM (30°-60°) | 533.3 | 24.3 | B1/1000 | | |
| BH (60°-80°) | 413.4 | 18.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.2 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type I Short





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CATALOG NUMBER: CCW-SA-1A-835-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0° | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 |
| 2.5° | 358.4 | 358.0 | 359.3 | 360.1 | 356.4 | 357.6 | 356.8 | 356.0 | 353.1 | 351.9 | 349.4 |
| 5° | 368.3 | 369.6 | 373.7 | 370.0 | 371.6 | 369.6 | 363.0 | 365.0 | 361.3 | 360.5 | 358.0 |
| 7.5° | 385.6 | 383.2 | 388.9 | 384.8 | 386.1 | 381.9 | 379.0 | 375.3 | 374.5 | 368.7 | 369.2 |
| 10° | 389.3 | 394.3 | 396.8 | 395.9 | 396.8 | 398.8 | 393.5 | 387.7 | 379.9 | 378.2 | 372.5 |
| 12.5° | 386.9 | 391.4 | 398.0 | 403.4 | 407.1 | 407.9 | 405.8 | 404.6 | 401.3 | 391.8 | 391.4 |
| 15° | 384.4 | 381.1 | 385.2 | 403.8 | 416.1 | 424.4 | 427.3 | 420.2 | 421.1 | 408.7 | 403.8 |
| 17.5° | 367.9 | 363.0 | 379.0 | 397.2 | 412.4 | 430.5 | 444.6 | 442.5 | 442.5 | 432.6 | 425.6 |
| 20° | 346.1 | 354.3 | 362.6 | 385.6 | 413.7 | 440.8 | 467.6 | 466.4 | 461.4 | 458.6 | 443.3 |
| 22.5° | 327.5 | 331.3 | 346.5 | 370.8 | 405.8 | 443.7 | 475.5 | 498.1 | 486.6 | 475.0 | 466.0 |
| 25° | 314.8 | 311.5 | 330.8 | 356.0 | 398.4 | 438.8 | 490.3 | 513.8 | 520.0 | 511.3 | 494.0 |
| 27.5° | 296.6 | 296.6 | 311.9 | 335.8 | 374.5 | 436.3 | 504.7 | 540.6 | 549.6 | 536.8 | 511.7 |
| 30° | 276.0 | 278.5 | 291.7 | 318.9 | 356.8 | 418.2 | 510.5 | 571.5 | 578.9 | 567.7 | 541.8 |
| 32.5° | 260.0 | 260.0 | 274.8 | 303.6 | 344.4 | 409.9 | 506.8 | 601.9 | 616.0 | 607.7 | 580.9 |
| 35° | 242.7 | 241.4 | 252.1 | 283.9 | 324.7 | 393.9 | 505.5 | 626.3 | 657.6 | 658.0 | 630.0 |
| 37.5° | 218.0 | 222.9 | 236.5 | 261.6 | 309.0 | 378.2 | 501.8 | 655.5 | 711.5 | 721.0 | 701.6 |
| 40° | 201.5 | 203.5 | 215.9 | 243.5 | 284.7 | 359.7 | 496.5 | 679.4 | 747.4 | 779.9 | 753.2 |
| 42.5° | 177.6 | 180.5 | 189.9 | 224.1 | 261.2 | 333.3 | 473.0 | 696.3 | 798.5 | 835.6 | 812.9 |
| 45° | 152.4 | 154.1 | 168.1 | 196.1 | 236.1 | 302.0 | 447.9 | 723.5 | 847.9 | 923.7 | 910.5 |
| 47.5° | 122.4 | 123.2 | 135.1 | 164.4 | 206.0 | 270.7 | 409.1 | 722.2 | 887.9 | 1011.9 | 1049.0 |
| 50° | 95.6 | 97.6 | 106.7 | 130.6 | 169.7 | 232.4 | 364.2 | 712.4 | 938.1 | 1112.4 | 1185.3 |
| 52.5° | 76.2 | 76.6 | 82.4 | 101.4 | 131.0 | 194.1 | 316.0 | 681.0 | 985.5 | 1210.9 | 1352.6 |
| 55° | 63.0 | 63.0 | 66.3 | 77.9 | 100.5 | 147.5 | 259.6 | 629.1 | 991.3 | 1319.7 | 1535.1 |
| 56° | 60.6 | 59.7 | 62.6 | 72.5 | 90.6 | 133.1 | 233.2 | 594.1 | 999.5 | 1369.9 | 1626.6 |
| 57° | 57.3 | 57.7 | 59.3 | 66.3 | 81.6 | 117.8 | 203.9 | 559.9 | 993.8 | 1411.1 | 1694.2 |
| 58° | 55.6 | 54.8 | 58.1 | 62.6 | 72.1 | 104.6 | 183.8 | 519.5 | 984.7 | 1444.9 | 1792.6 |
| 59° | 53.1 | 52.7 | 54.8 | 58.9 | 67.2 | 93.1 | 159.0 | 475.9 | 967.0 | 1488.6 | 1866.0 |
| 60° | 52.3 | 51.9 | 52.7 | 56.0 | 61.8 | 81.6 | 140.1 | 424.8 | 919.6 | 1533.5 | 1957.0 |
| 61° | 49.9 | 50.3 | 51.9 | 54.0 | 58.5 | 73.3 | 126.1 | 372.5 | 888.7 | 1571.4 | 2057.6 |
| 62° | 50.3 | 49.4 | 50.3 | 51.9 | 55.2 | 67.6 | 110.4 | 321.0 | 833.5 | 1614.2 | 2133.0 |
| 63° | 47.8 | 47.4 | 48.6 | 50.7 | 52.3 | 61.0 | 96.4 | 277.3 | 770.9 | 1624.1 | 2196.8 |
| 64° | 47.0 | 46.6 | 47.0 | 49.9 | 50.3 | 57.3 | 85.3 | 236.9 | 680.2 | 1641.0 | 2278.8 |
| 65° | 44.9 | 44.9 | 45.7 | 47.0 | 48.6 | 54.0 | 76.2 | 205.6 | 590.0 | 1596.5 | 2303.9 |
| 66° | 43.3 | 43.7 | 43.7 | 45.7 | 47.0 | 50.3 | 70.0 | 174.7 | 503.5 | 1525.7 | 2328.3 |
| 67° | 42.0 | 42.0 | 42.4 | 44.1 | 45.3 | 47.4 | 63.0 | 151.2 | 424.8 | 1441.2 | 2290.8 |
| 67.5° | 41.2 | 41.6 | 41.6 | 43.3 | 44.5 | 47.4 | 60.2 | 143.4 | 379.9 | 1348.5 | 2262.7 |
| 68° | 40.0 | 40.4 | 40.4 | 42.0 | 43.3 | 45.7 | 58.1 | 131.0 | 350.2 | 1288.3 | 2210.8 |
| 69° | 39.1 | 38.7 | 38.7 | 40.4 | 42.0 | 43.7 | 54.0 | 114.5 | 278.5 | 1120.2 | 2135.0 |
| 70° | 36.7 | 36.7 | 37.5 | 38.7 | 40.0 | 41.6 | 49.9 | 100.9 | 235.7 | 927.4 | 1939.7 |
| 71° | 35.4 | 35.0 | 35.4 | 36.7 | 37.9 | 40.0 | 45.7 | 89.4 | 192.8 | 770.0 | 1747.7 |
| 72° | 33.0 | 33.8 | 33.8 | 35.0 | 36.3 | 37.5 | 42.8 | 77.9 | 161.9 | 615.5 | 1536.4 |
| 72.5° | 32.5 | 32.5 | 33.0 | 34.2 | 35.0 | 37.1 | 41.2 | 74.6 | 147.9 | 542.6 | 1447.8 |
| 73° | 31.3 | 31.3 | 31.7 | 33.0 | 33.8 | 35.8 | 40.0 | 67.2 | 134.7 | 482.9 | 1282.2 |
| 74° | 30.1 | 29.7 | 29.7 | 31.3 | 31.7 | 33.8 | 37.5 | 59.3 | 112.9 | 363.8 | 1029.2 |
| 75° | 28.0 | 28.0 | 28.4 | 29.3 | 29.7 | 31.3 | 34.6 | 52.7 | 95.2 | 282.2 | 805.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 80° |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|
| 77.5° | 23.1 | 23.5 | 23.9 | 24.7 | 24.7 | 26.0 | 28.4 | 36.7 | 58.1 | 143.0 | 369.6 |
| 80° | 16.9 | 17.7 | 19.0 | 20.2 | 19.8 | 19.8 | 22.2 | 26.4 | 34.6 | 64.3 | 141.7 |
| 82.5° | 13.6 | 14.4 | 13.2 | 14.8 | 14.8 | 14.0 | 16.1 | 19.4 | 23.5 | 31.7 | 50.7 |
| 85° | 9.1 | 9.5 | 7.8 | 9.1 | 8.7 | 8.7 | 10.7 | 11.5 | 14.4 | 17.7 | 25.1 |
| 87.5° | 4.1 | 4.1 | 3.3 | 3.7 | 3.7 | 3.7 | 5.4 | 4.1 | 6.2 | 8.7 | 14.8 |
| 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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CATALOG NUMBER: CCW-SA-1A-835-U-T1

CANDELA DISTRIBUTION (continued):

| | 85° | 87.5° | 90° | 92° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 |
| 2.5° | 351.9 | 353.5 | 353.5 | 351.9 | 350.6 | 351.9 | 351.0 | 349.0 | 351.0 | 351.9 | 352.3 |
| 5° | 356.8 | 353.5 | 355.2 | 351.4 | 353.9 | 353.5 | 352.7 | 354.7 | 355.2 | 355.2 | 358.0 |
| 7.5° | 362.2 | 366.3 | 360.9 | 361.3 | 362.6 | 357.6 | 359.3 | 360.1 | 358.4 | 361.7 | 364.2 |
| 10° | 371.6 | 373.3 | 371.6 | 365.5 | 369.6 | 366.3 | 365.0 | 368.7 | 367.9 | 368.7 | 372.5 |
| 12.5° | 380.3 | 383.2 | 378.6 | 378.2 | 376.2 | 373.3 | 374.9 | 374.5 | 380.3 | 381.1 | 385.6 |
| 15° | 398.0 | 390.6 | 388.9 | 388.5 | 387.7 | 386.5 | 387.3 | 387.7 | 395.1 | 396.4 | 407.1 |
| 17.5° | 413.2 | 412.0 | 402.9 | 406.2 | 406.2 | 401.3 | 399.2 | 406.2 | 412.0 | 418.2 | 425.6 |
| 20° | 428.9 | 427.7 | 417.8 | 418.2 | 414.5 | 419.0 | 416.5 | 423.1 | 433.0 | 435.1 | 441.7 |
| 22.5° | 447.4 | 442.1 | 435.1 | 435.9 | 437.1 | 433.8 | 432.2 | 441.3 | 451.1 | 456.9 | 457.3 |
| 25° | 476.7 | 463.1 | 457.3 | 458.2 | 456.5 | 454.0 | 455.3 | 466.8 | 471.7 | 484.1 | 481.6 |
| 27.5° | 492.3 | 484.5 | 480.4 | 470.9 | 471.3 | 467.6 | 472.6 | 489.9 | 499.8 | 509.2 | 490.3 |
| 30° | 511.3 | 506.4 | 488.2 | 484.9 | 484.5 | 482.9 | 491.9 | 514.2 | 529.0 | 534.4 | 507.2 |
| 32.5° | 548.4 | 528.6 | 524.1 | 521.2 | 514.6 | 516.7 | 521.2 | 550.4 | 573.9 | 572.7 | 522.8 |
| 35° | 590.8 | 577.2 | 564.5 | 562.0 | 561.2 | 555.4 | 563.2 | 597.4 | 615.5 | 610.2 | 528.6 |
| 37.5° | 658.8 | 638.2 | 620.9 | 611.4 | 609.8 | 605.7 | 624.2 | 651.4 | 674.9 | 653.9 | 533.1 |
| 40° | 692.2 | 669.1 | 653.0 | 647.3 | 648.5 | 654.3 | 672.4 | 714.0 | 724.3 | 685.6 | 536.8 |
| 42.5° | 740.0 | 714.8 | 683.1 | 680.2 | 676.5 | 679.4 | 714.4 | 770.5 | 779.1 | 728.4 | 522.8 |
| 45° | 824.8 | 786.9 | 750.3 | 733.8 | 734.6 | 742.4 | 796.8 | 858.2 | 842.1 | 758.1 | 500.6 |
| 47.5° | 932.0 | 876.3 | 846.7 | 824.4 | 835.1 | 826.5 | 913.0 | 962.0 | 907.2 | 795.6 | 473.4 |
| 50° | 1093.1 | 1015.2 | 974.8 | 948.0 | 952.6 | 960.0 | 1047.7 | 1089.3 | 979.3 | 813.7 | 431.8 |
| 52.5° | 1296.2 | 1196.1 | 1136.7 | 1100.9 | 1104.2 | 1120.2 | 1233.6 | 1220.8 | 1061.7 | 829.0 | 376.2 |
| 55° | 1539.3 | 1436.3 | 1321.3 | 1306.5 | 1302.8 | 1341.1 | 1465.9 | 1358.4 | 1135.9 | 804.7 | 318.5 |
| 56° | 1667.8 | 1558.2 | 1438.7 | 1408.2 | 1399.2 | 1426.0 | 1572.6 | 1427.2 | 1161.4 | 777.5 | 290.9 |
| 57° | 1777.0 | 1672.3 | 1541.3 | 1489.4 | 1500.9 | 1551.2 | 1678.5 | 1491.9 | 1184.9 | 749.4 | 264.9 |
| 58° | 1927.0 | 1807.5 | 1669.0 | 1629.5 | 1619.2 | 1659.2 | 1792.6 | 1557.0 | 1192.8 | 720.6 | 241.0 |
| 59° | 2076.5 | 1933.1 | 1808.3 | 1736.2 | 1739.1 | 1812.0 | 1905.1 | 1634.4 | 1204.7 | 683.9 | 210.5 |
| 60° | 2190.2 | 2118.1 | 1951.3 | 1897.3 | 1889.9 | 1995.4 | 2017.2 | 1686.3 | 1217.5 | 634.5 | 189.1 |
| 61° | 2351.3 | 2257.4 | 2102.1 | 2032.4 | 2052.6 | 2137.1 | 2138.3 | 1751.4 | 1198.5 | 571.9 | 162.7 |
| 62° | 2467.1 | 2442.4 | 2279.2 | 2212.9 | 2206.7 | 2318.8 | 2264.4 | 1808.7 | 1182.1 | 512.5 | 143.8 |
| 63° | 2602.7 | 2602.7 | 2453.9 | 2402.0 | 2404.9 | 2493.5 | 2319.2 | 1866.0 | 1163.1 | 447.0 | 126.5 |
| 64° | 2673.1 | 2761.7 | 2624.5 | 2551.6 | 2570.5 | 2647.1 | 2416.8 | 1903.5 | 1104.6 | 380.7 | 111.2 |
| 65° | 2734.1 | 2867.2 | 2790.9 | 2757.2 | 2728.3 | 2773.6 | 2501.3 | 1938.5 | 1015.2 | 323.8 | 98.9 |
| 66° | 2785.6 | 2966.5 | 2941.3 | 2905.1 | 2902.2 | 2891.9 | 2517.8 | 1937.3 | 922.9 | 273.6 | 86.5 |
| 67° | 2759.6 | 2968.5 | 3014.2 | 3029.5 | 3025.0 | 2916.2 | 2488.9 | 1893.2 | 804.7 | 231.1 | 77.0 |
| 67.5° | 2736.1 | 2951.6 | 3057.9 | 3049.3 | 3068.2 | 2936.8 | 2493.9 | 1839.2 | 720.6 | 209.3 | 72.5 |
| 68° | 2715.5 | 2929.0 | 3075.6 | 3086.8 | 3077.3 | 2939.3 | 2466.7 | 1796.4 | 663.3 | 196.5 | 68.4 |
| 69° | 2559.4 | 2821.4 | 3047.2 | 3087.2 | 3062.9 | 2844.9 | 2380.2 | 1684.7 | 527.0 | 167.7 | 63.0 |
| 70° | 2402.8 | 2682.2 | 2909.2 | 2982.5 | 2952.4 | 2662.4 | 2271.0 | 1507.1 | 434.7 | 143.4 | 56.9 |
| 71° | 2186.1 | 2423.4 | 2725.4 | 2769.5 | 2733.3 | 2454.7 | 2045.2 | 1319.7 | 338.3 | 121.5 | 50.7 |
| 72° | 1891.9 | 2093.4 | 2381.8 | 2488.5 | 2435.0 | 2156.0 | 1817.0 | 1090.6 | 274.0 | 102.2 | 46.1 |
| 72.5° | 1746.1 | 1952.5 | 2230.6 | 2239.3 | 2249.6 | 2026.3 | 1720.1 | 957.9 | 239.0 | 94.8 | 44.9 |
| 73° | 1607.7 | 1809.9 | 2050.6 | 2081.1 | 2037.4 | 1807.5 | 1575.5 | 856.6 | 218.4 | 86.5 | 43.3 |
| 74° | 1302.8 | 1418.1 | 1617.5 | 1647.2 | 1608.9 | 1473.8 | 1287.5 | 656.7 | 173.9 | 74.6 | 39.6 |
| 75° | 1025.1 | 1088.5 | 1269.0 | 1250.9 | 1193.6 | 1146.2 | 998.3 | 501.8 | 140.9 | 65.5 | 36.7 |



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 CATALOG NUMBER: CCW-SA-1A-835-U-T1

CANDELA DISTRIBUTION (continued):

| | 85° | 87.5° | 90° | 92° | 92.5° | 95° | 100° | 105° | 110° | 115° | 125° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 77.5° | 460.6 | 498.9 | 529.0 | 529.0 | 532.3 | 508.0 | 460.2 | 230.3 | 86.9 | 47.4 | 30.1 |
| 80° | 175.5 | 196.5 | 203.1 | 203.5 | 206.4 | 213.8 | 199.0 | 113.3 | 51.5 | 33.8 | 24.3 |
| 82.5° | 127.3 | 178.0 | 191.6 | 181.7 | 182.5 | 164.8 | 76.2 | 50.3 | 32.5 | 23.5 | 17.7 |
| 85° | 115.4 | 154.9 | 164.0 | 162.7 | 163.2 | 152.4 | 44.9 | 24.7 | 19.0 | 14.8 | 12.4 |
| 87.5° | 56.0 | 54.8 | 58.1 | 65.5 | 63.9 | 82.8 | 37.9 | 12.4 | 8.2 | 6.2 | 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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CATALOG NUMBER: CCW-SA-1A-835-U-T1

CANDELA DISTRIBUTION (continued):

| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|
| 0° | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 | 351.0 |
| 2.5° | 349.0 | 348.6 | 354.3 | 348.6 | 351.9 | 349.4 |
| 5° | 353.1 | 354.7 | 356.0 | 358.4 | 352.7 | 358.4 |
| 7.5° | 365.5 | 367.1 | 367.5 | 369.6 | 367.1 | 366.7 |
| 10° | 374.9 | 379.0 | 381.5 | 373.3 | 378.2 | 377.8 |
| 12.5° | 393.5 | 389.3 | 388.9 | 387.3 | 382.8 | 381.1 |
| 15° | 406.7 | 400.5 | 396.8 | 390.2 | 384.8 | 382.8 |
| 17.5° | 425.2 | 413.2 | 398.0 | 384.4 | 374.9 | 367.5 |
| 20° | 436.7 | 415.3 | 384.8 | 368.7 | 354.3 | 357.6 |
| 22.5° | 444.1 | 413.2 | 372.9 | 352.3 | 337.8 | 342.0 |
| 25° | 446.6 | 402.9 | 364.6 | 339.1 | 325.1 | 322.2 |
| 27.5° | 439.6 | 391.0 | 348.6 | 319.7 | 307.4 | 309.8 |
| 30° | 436.3 | 373.7 | 333.7 | 305.3 | 288.8 | 291.3 |
| 32.5° | 427.7 | 356.0 | 313.9 | 285.1 | 273.2 | 269.0 |
| 35° | 415.3 | 341.1 | 295.0 | 267.8 | 253.4 | 250.1 |
| 37.5° | 400.1 | 322.6 | 278.5 | 245.6 | 232.8 | 230.3 |
| 40° | 377.4 | 300.4 | 254.6 | 226.2 | 211.4 | 210.9 |
| 42.5° | 357.6 | 278.9 | 232.4 | 203.1 | 188.3 | 189.1 |
| 45° | 332.5 | 250.1 | 206.8 | 181.7 | 166.9 | 167.7 |
| 47.5° | 300.4 | 223.3 | 182.5 | 154.5 | 142.1 | 141.3 |
| 50° | 262.4 | 192.8 | 152.9 | 129.0 | 118.7 | 116.6 |
| 52.5° | 226.2 | 161.9 | 125.3 | 103.8 | 95.2 | 94.3 |
| 55° | 180.5 | 126.1 | 97.6 | 81.6 | 75.0 | 75.4 |
| 56° | 164.0 | 116.2 | 89.0 | 74.6 | 69.6 | 69.6 |
| 57° | 148.3 | 103.0 | 80.8 | 68.8 | 64.3 | 64.3 |
| 58° | 131.0 | 90.6 | 73.3 | 62.2 | 60.2 | 58.5 |
| 59° | 119.1 | 82.4 | 66.3 | 58.9 | 55.6 | 55.2 |
| 60° | 105.1 | 74.2 | 61.8 | 55.2 | 52.7 | 52.3 |
| 61° | 93.1 | 66.7 | 56.9 | 51.5 | 50.7 | 50.7 |
| 62° | 83.2 | 61.8 | 52.7 | 49.9 | 49.4 | 48.2 |
| 63° | 74.6 | 56.9 | 50.7 | 47.4 | 46.1 | 47.4 |
| 64° | 66.7 | 52.3 | 49.0 | 46.6 | 44.9 | 45.7 |
| 65° | 60.6 | 50.3 | 47.0 | 45.3 | 43.7 | 44.1 |
| 66° | 56.4 | 47.0 | 45.3 | 43.3 | 42.4 | 42.8 |
| 67° | 51.1 | 45.3 | 43.7 | 41.6 | 41.2 | 41.6 |
| 67.5° | 49.4 | 44.1 | 42.8 | 40.8 | 40.4 | 40.8 |
| 68° | 48.2 | 43.3 | 42.4 | 40.4 | 40.0 | 39.6 |
| 69° | 44.9 | 41.6 | 40.4 | 39.6 | 38.7 | 38.3 |
| 70° | 42.0 | 40.0 | 39.1 | 37.9 | 37.1 | 36.7 |
| 71° | 40.4 | 37.9 | 37.5 | 36.3 | 35.4 | 35.0 |
| 72° | 38.3 | 36.7 | 35.8 | 34.2 | 33.8 | 34.2 |
| 72.5° | 37.9 | 35.8 | 35.4 | 33.8 | 33.4 | 33.4 |
| 73° | 36.7 | 34.2 | 34.6 | 33.0 | 32.1 | 33.0 |
| 74° | 34.2 | 33.4 | 32.5 | 31.3 | 30.9 | 30.9 |
| 75° | 32.1 | 31.3 | 30.5 | 29.7 | 29.7 | 29.7 |



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| 80° | 21.8 | 21.8 | 22.2 | 21.0 | 20.2 | 19.8 |
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