

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: P674228

Luminaire Tested: **CCP-SA-1C-722-U-SLR-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674228
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-722-U-SLR-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ SLR distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

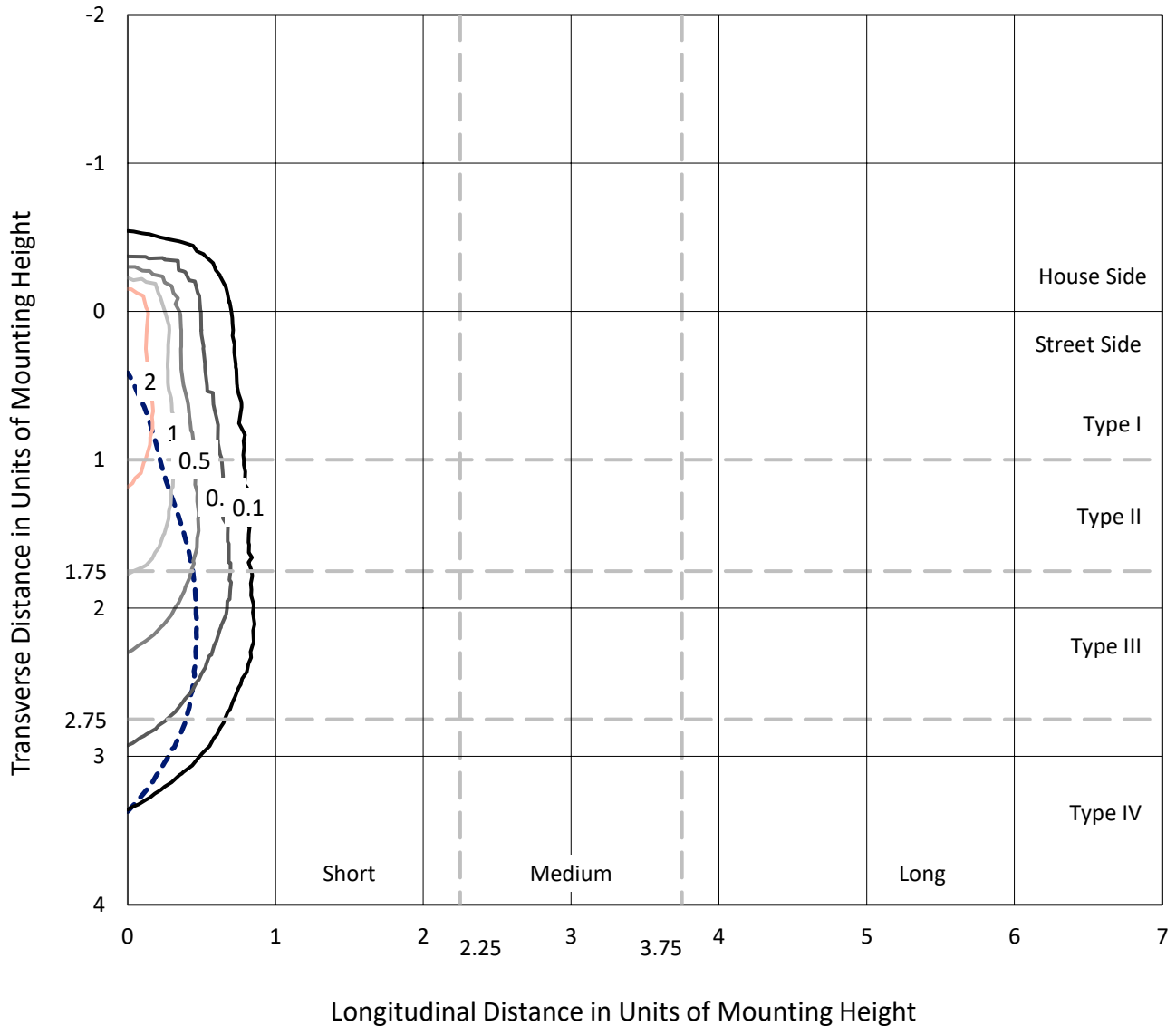
Lumens per Lamp: N/A
Luminaire Lumens: 2393.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

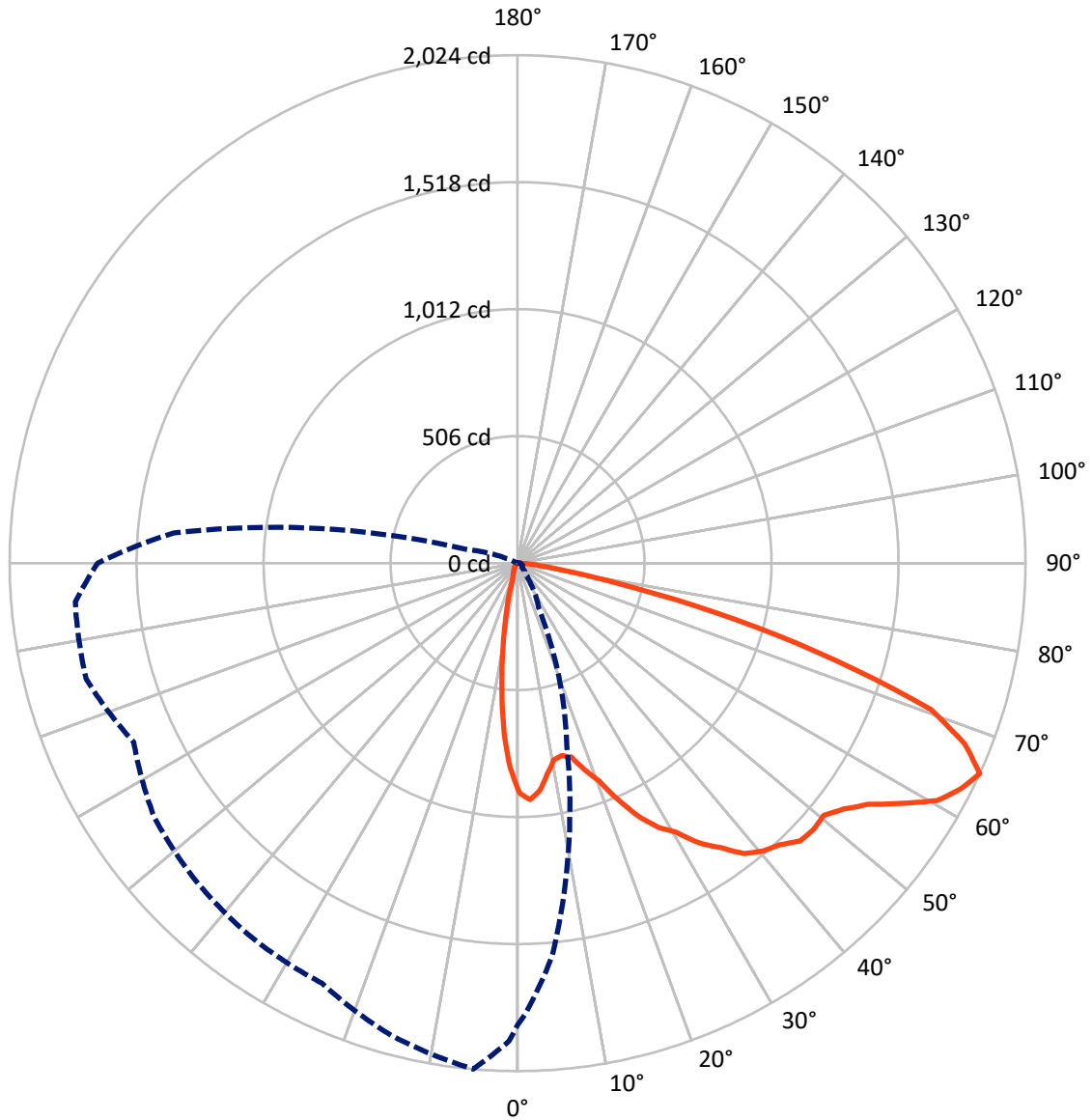
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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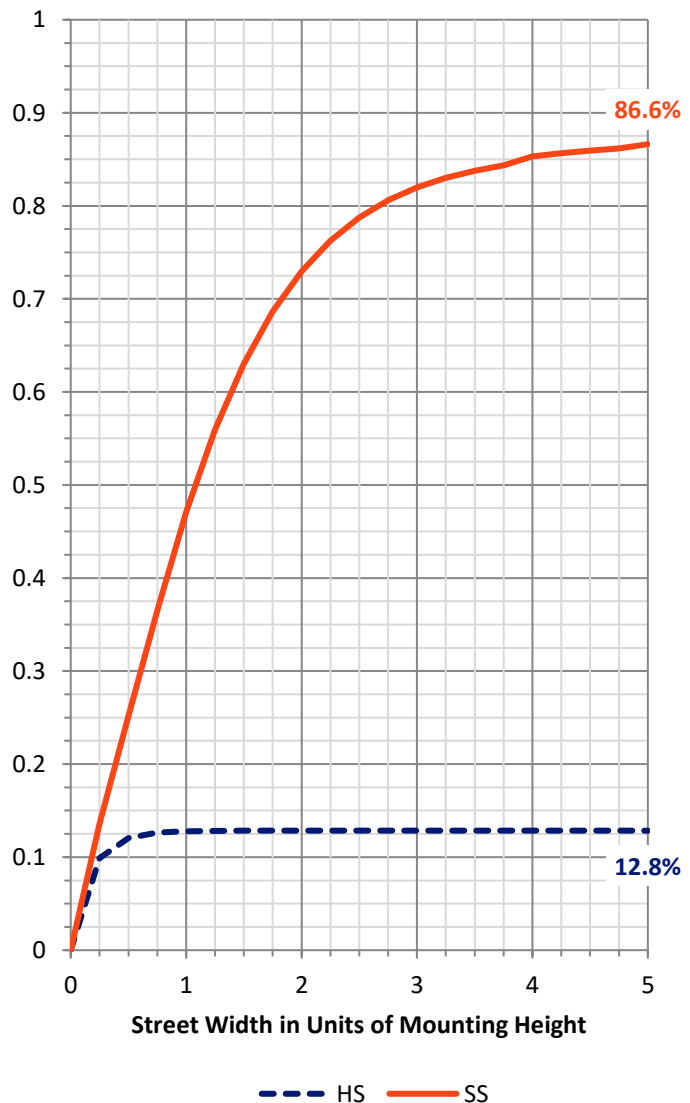
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 310.7 | 0.0 | 310.7 |
| | % Fixture | 13.0 | 0.0 | 13.0 |
| Street Side | Lumens | 2082.6 | 0.0 | 2082.6 |
| | % Fixture | 87.0 | 0.0 | 87.0 |
| Total | Lumens | 2393.3 | 0.0 | 2393.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.3 | 2.9 |
| 10°-20° | 134.2 | 5.6 |
| 20°-30° | 186.9 | 7.8 |
| 30°-40° | 265.6 | 11.1 |
| 40°-50° | 368.3 | 15.4 |
| 50°-60° | 501.8 | 21.0 |
| 60°-70° | 551.7 | 23.1 |
| 70°-80° | 271.2 | 11.3 |
| 80°-90° | 44.3 | 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° | 2393.3 | 100.0 |
| 0°-180° | 2393.3 | 100.0 |

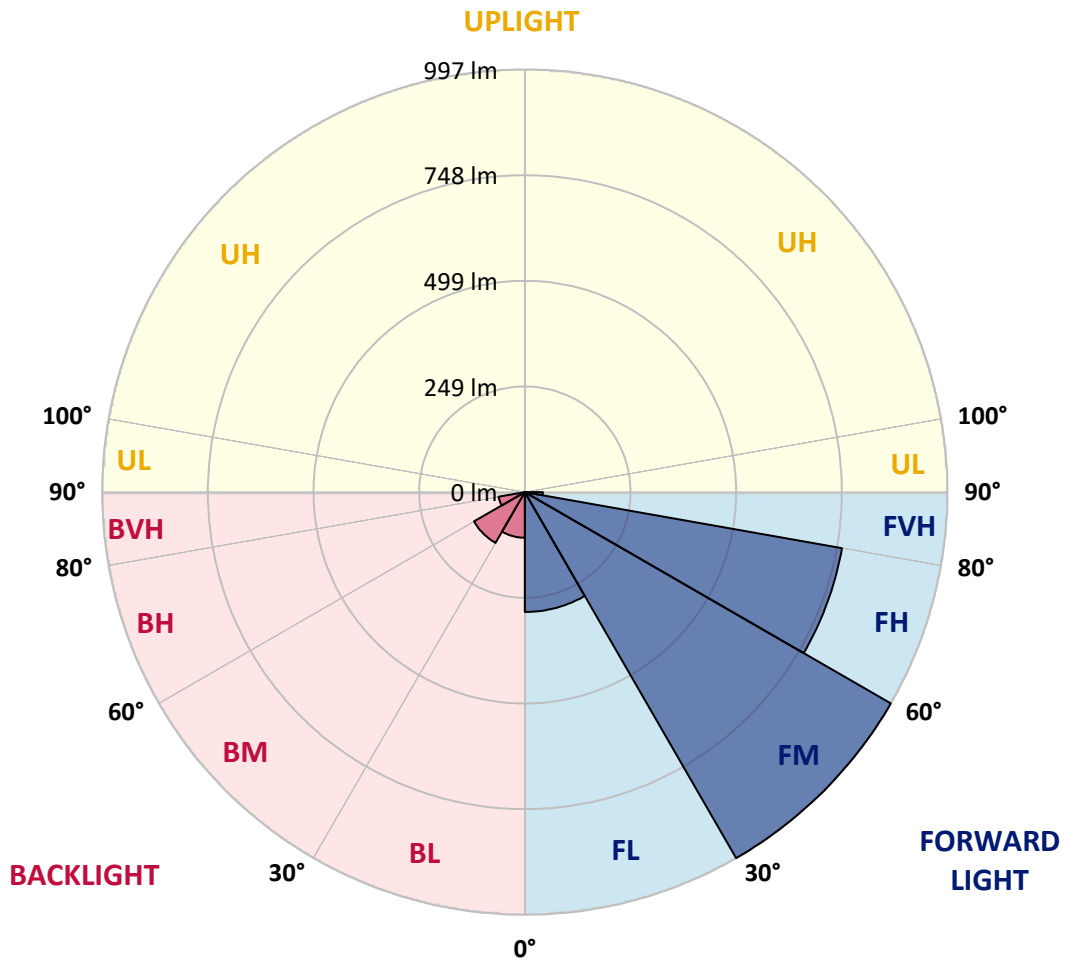


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 282.8 | 11.8 | | | |
| FM (30°-60°) | 997.4 | 41.7 | | | |
| FH (60°-80°) | 760.1 | 31.8 | | | G1/1800 |
| FVH (80°-90°) | 42.3 | 1.8 | | | G1/100 |
| BL (0°-30°) | 107.6 | 4.5 | B0/110 | | |
| BM (30°-60°) | 138.4 | 5.8 | B0/220 | | |
| BH (60°-80°) | 62.8 | 2.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.0 | 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° | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 |
| 2.5° | 933.7 | 944.6 | 934.3 | 898.2 | 891.7 | 874.3 | 847.9 | 845.9 | 818.2 | 821.4 | 806.6 |
| 5° | 877.5 | 888.5 | 866.6 | 818.8 | 774.3 | 738.8 | 717.5 | 679.4 | 671.1 | 652.3 | 652.3 |
| 7.5° | 820.1 | 819.5 | 782.0 | 742.0 | 675.6 | 610.4 | 580.7 | 525.9 | 493.6 | 476.2 | 459.4 |
| 10° | 772.4 | 762.0 | 738.8 | 656.2 | 583.9 | 516.2 | 479.4 | 443.3 | 409.7 | 380.7 | 351.7 |
| 12.5° | 738.8 | 745.3 | 708.5 | 618.8 | 525.2 | 478.1 | 438.8 | 400.7 | 360.7 | 327.8 | 295.5 |
| 15° | 756.2 | 745.9 | 702.7 | 610.4 | 515.6 | 451.0 | 398.8 | 352.3 | 307.8 | 264.6 | 240.0 |
| 17.5° | 810.4 | 784.0 | 733.0 | 610.4 | 495.5 | 409.7 | 346.5 | 291.7 | 243.9 | 205.2 | 174.9 |
| 20° | 883.3 | 853.0 | 798.2 | 633.0 | 480.7 | 379.4 | 292.9 | 223.9 | 174.2 | 138.1 | 114.9 |
| 22.5° | 958.2 | 934.3 | 851.7 | 642.0 | 463.3 | 338.8 | 231.0 | 162.0 | 116.1 | 92.9 | 81.3 |
| 25° | 1047.9 | 1014.3 | 924.0 | 678.2 | 437.5 | 299.4 | 182.0 | 112.9 | 86.5 | 74.2 | 67.1 |
| 27.5° | 1119.5 | 1113.7 | 991.7 | 700.1 | 418.1 | 267.1 | 143.9 | 89.7 | 71.6 | 62.6 | 58.1 |
| 30° | 1209.8 | 1178.2 | 1074.3 | 744.0 | 396.2 | 230.4 | 120.0 | 80.7 | 65.8 | 56.1 | 52.9 |
| 32.5° | 1264.0 | 1249.2 | 1117.6 | 768.5 | 371.7 | 200.0 | 103.2 | 71.0 | 60.0 | 52.9 | 49.7 |
| 35° | 1342.8 | 1313.1 | 1179.5 | 784.0 | 358.8 | 182.6 | 92.9 | 64.5 | 50.3 | 43.2 | 39.4 |
| 37.5° | 1430.5 | 1419.5 | 1253.7 | 783.3 | 340.0 | 172.3 | 85.8 | 60.0 | 47.7 | 40.0 | 35.5 |
| 40° | 1520.2 | 1475.7 | 1298.9 | 801.4 | 330.4 | 164.5 | 80.7 | 57.4 | 45.2 | 38.1 | 32.3 |
| 42.5° | 1587.3 | 1536.3 | 1351.1 | 794.9 | 318.8 | 151.0 | 78.7 | 53.6 | 43.2 | 34.8 | 29.7 |
| 45° | 1605.4 | 1587.3 | 1398.2 | 793.0 | 310.4 | 140.0 | 75.5 | 52.9 | 41.9 | 32.9 | 27.7 |
| 47.5° | 1640.2 | 1628.0 | 1456.3 | 796.2 | 303.9 | 131.6 | 67.8 | 54.2 | 40.0 | 31.0 | 26.5 |
| 50° | 1655.7 | 1633.8 | 1503.4 | 804.0 | 289.1 | 121.3 | 60.7 | 56.8 | 39.4 | 30.3 | 25.2 |
| 52.5° | 1719.6 | 1700.2 | 1567.9 | 825.9 | 276.8 | 107.8 | 53.6 | 54.2 | 40.7 | 28.4 | 23.9 |
| 55° | 1782.2 | 1760.2 | 1667.3 | 876.2 | 259.4 | 96.8 | 45.8 | 47.7 | 38.7 | 25.8 | 21.3 |
| 57.5° | 1868.0 | 1831.9 | 1733.8 | 896.9 | 243.9 | 81.9 | 40.7 | 39.4 | 36.1 | 23.2 | 18.7 |
| 60° | 1880.9 | 1895.7 | 1724.1 | 884.0 | 227.8 | 72.3 | 35.5 | 30.3 | 38.7 | 20.6 | 16.1 |
| 62.5° | 1924.1 | 1862.2 | 1678.9 | 854.3 | 216.2 | 66.5 | 31.6 | 25.2 | 33.6 | 18.1 | 13.6 |
| 65° | 1840.9 | 1795.1 | 1573.1 | 758.8 | 201.3 | 67.1 | 27.7 | 20.6 | 21.3 | 14.8 | 11.0 |
| 67.5° | 1718.9 | 1682.8 | 1397.6 | 654.9 | 186.5 | 65.8 | 24.5 | 18.1 | 16.1 | 12.9 | 9.7 |
| 70° | 1508.6 | 1430.5 | 1187.3 | 531.7 | 164.5 | 61.3 | 20.6 | 16.1 | 13.6 | 10.3 | 7.1 |
| 72.5° | 1097.6 | 1065.9 | 851.7 | 411.0 | 147.8 | 55.5 | 19.4 | 13.6 | 11.6 | 7.7 | 5.8 |
| 75° | 738.8 | 686.5 | 537.5 | 269.7 | 118.7 | 48.4 | 16.1 | 12.3 | 9.0 | 5.8 | 4.5 |
| 77.5° | 390.4 | 369.1 | 304.6 | 128.4 | 65.8 | 22.6 | 9.0 | 7.1 | 5.2 | 4.5 | 2.6 |
| 80° | 169.1 | 150.3 | 131.6 | 52.3 | 23.2 | 10.3 | 5.8 | 3.9 | 3.2 | 2.6 | 1.3 |
| 82.5° | 86.5 | 82.6 | 68.4 | 22.6 | 13.6 | 7.7 | 3.2 | 2.6 | 1.9 | 1.3 | 0.6 |
| 85° | 42.6 | 43.9 | 36.1 | 7.1 | 7.7 | 4.5 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.2 | 3.2 | 2.6 | 1.3 | 1.9 | 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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 CATALOG NUMBER: CCP-SA-1C-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 |
| 2.5° | 800.7 | 809.8 | 794.3 | 804.0 | 799.5 | 801.4 | 803.3 | 798.2 | 799.5 | 817.5 | 818.2 |
| 5° | 641.4 | 658.8 | 652.3 | 661.4 | 676.9 | 669.1 | 676.2 | 674.9 | 676.2 | 678.8 | 690.4 |
| 7.5° | 457.5 | 452.3 | 464.6 | 488.5 | 516.2 | 533.0 | 524.6 | 520.1 | 517.5 | 511.0 | 518.8 |
| 10° | 345.2 | 342.6 | 339.4 | 346.5 | 364.6 | 383.3 | 393.6 | 376.2 | 366.5 | 354.2 | 349.7 |
| 12.5° | 286.5 | 270.4 | 261.3 | 250.4 | 255.5 | 272.3 | 272.9 | 256.2 | 240.7 | 234.2 | 241.3 |
| 15° | 225.8 | 214.9 | 198.7 | 183.2 | 175.5 | 188.4 | 177.4 | 161.3 | 141.3 | 138.7 | 138.1 |
| 17.5° | 161.3 | 154.9 | 143.2 | 136.8 | 127.8 | 124.5 | 112.9 | 88.4 | 74.2 | 70.3 | 71.6 |
| 20° | 109.7 | 104.5 | 103.9 | 98.1 | 94.2 | 91.6 | 72.9 | 56.8 | 52.3 | 52.9 | 53.6 |
| 22.5° | 81.3 | 78.7 | 75.5 | 74.8 | 71.6 | 68.4 | 53.6 | 47.7 | 44.5 | 44.5 | 46.5 |
| 25° | 66.5 | 65.2 | 61.9 | 60.7 | 59.4 | 54.8 | 45.2 | 40.7 | 39.4 | 38.1 | 40.0 |
| 27.5° | 56.8 | 56.1 | 54.2 | 52.3 | 51.0 | 46.5 | 39.4 | 35.5 | 34.2 | 34.2 | 34.2 |
| 30° | 51.0 | 51.0 | 48.4 | 44.5 | 44.5 | 39.4 | 33.6 | 31.0 | 29.7 | 29.7 | 29.0 |
| 32.5° | 47.7 | 46.5 | 43.2 | 40.7 | 38.7 | 33.6 | 29.7 | 27.1 | 25.2 | 25.2 | 25.8 |
| 35° | 38.7 | 38.7 | 38.1 | 36.1 | 33.6 | 28.4 | 25.2 | 22.6 | 21.3 | 20.6 | 21.3 |
| 37.5° | 34.2 | 32.3 | 29.7 | 30.3 | 29.0 | 24.5 | 21.3 | 19.4 | 17.4 | 17.4 | 17.4 |
| 40° | 31.0 | 29.0 | 26.5 | 24.5 | 23.9 | 21.9 | 18.7 | 15.5 | 13.6 | 12.9 | 12.9 |
| 42.5° | 27.7 | 26.5 | 22.6 | 19.4 | 18.7 | 18.7 | 14.2 | 11.6 | 9.7 | 9.7 | 9.7 |
| 45° | 25.8 | 23.9 | 20.6 | 16.8 | 13.6 | 14.2 | 11.6 | 8.4 | 7.1 | 6.5 | 6.5 |
| 47.5° | 24.5 | 22.6 | 18.1 | 14.2 | 10.3 | 10.3 | 8.4 | 5.8 | 4.5 | 3.9 | 3.9 |
| 50° | 22.6 | 20.6 | 16.1 | 11.6 | 7.7 | 6.5 | 5.2 | 3.2 | 1.9 | 1.3 | 1.3 |
| 52.5° | 21.3 | 19.4 | 14.2 | 9.7 | 6.5 | 4.5 | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 |
| 55° | 19.4 | 16.8 | 12.3 | 7.7 | 5.2 | 2.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 16.8 | 14.8 | 9.7 | 5.8 | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 14.2 | 12.3 | 7.7 | 4.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 11.6 | 10.3 | 5.8 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 9.7 | 7.7 | 4.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 8.4 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 6.5 | 4.5 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4.5 | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3.2 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.9 | 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 | 915.0 |
| 2.5° | 820.8 | 840.1 | 858.2 | 863.3 | 877.5 | 916.9 | 916.9 | 935.6 | 969.2 | 981.4 | 984.0 |
| 5° | 692.3 | 713.0 | 716.9 | 756.9 | 775.6 | 815.6 | 842.0 | 905.3 | 943.3 | 967.2 | 982.1 |
| 7.5° | 526.5 | 533.6 | 548.5 | 585.9 | 622.7 | 671.1 | 721.4 | 802.0 | 869.1 | 896.2 | 946.6 |
| 10° | 362.0 | 383.3 | 415.5 | 449.1 | 506.5 | 560.1 | 625.2 | 701.4 | 784.0 | 817.5 | 860.8 |
| 12.5° | 243.9 | 273.6 | 325.2 | 373.0 | 425.9 | 480.1 | 542.0 | 644.0 | 737.5 | 784.0 | 827.2 |
| 15° | 142.6 | 178.7 | 223.3 | 300.7 | 371.0 | 431.7 | 493.6 | 596.9 | 710.4 | 770.4 | 823.3 |
| 17.5° | 72.3 | 83.2 | 120.0 | 187.1 | 280.0 | 379.4 | 471.7 | 603.3 | 731.1 | 804.6 | 848.5 |
| 20° | 54.2 | 57.4 | 67.8 | 99.4 | 191.6 | 313.6 | 451.0 | 613.0 | 788.5 | 878.2 | 902.1 |
| 22.5° | 47.1 | 49.7 | 54.2 | 64.5 | 107.8 | 240.0 | 422.0 | 636.9 | 866.6 | 951.1 | 1001.4 |
| 25° | 40.0 | 42.6 | 46.5 | 52.9 | 69.0 | 163.2 | 386.5 | 662.0 | 936.3 | 1042.7 | 1089.8 |
| 27.5° | 34.8 | 36.8 | 40.7 | 45.8 | 56.1 | 103.9 | 325.2 | 695.6 | 1042.7 | 1153.7 | 1166.0 |
| 30° | 29.7 | 31.6 | 34.8 | 40.7 | 47.7 | 73.6 | 238.7 | 700.1 | 1101.4 | 1202.1 | 1236.3 |
| 32.5° | 25.8 | 26.5 | 30.3 | 35.5 | 40.0 | 58.1 | 167.8 | 704.6 | 1144.7 | 1264.7 | 1271.8 |
| 35° | 21.3 | 22.6 | 26.5 | 29.7 | 34.8 | 45.8 | 127.1 | 682.0 | 1200.8 | 1329.2 | 1327.3 |
| 37.5° | 17.4 | 19.4 | 21.9 | 24.5 | 28.4 | 38.7 | 101.3 | 640.1 | 1271.1 | 1429.2 | 1368.6 |
| 40° | 13.6 | 15.5 | 18.1 | 21.3 | 23.9 | 34.8 | 76.1 | 576.8 | 1344.7 | 1478.3 | 1413.7 |
| 42.5° | 9.7 | 11.0 | 13.6 | 16.8 | 21.3 | 29.0 | 54.8 | 502.0 | 1373.7 | 1535.7 | 1467.9 |
| 45° | 7.1 | 8.4 | 10.3 | 14.2 | 21.9 | 23.2 | 38.1 | 433.6 | 1404.7 | 1560.8 | 1455.7 |
| 47.5° | 3.9 | 5.2 | 7.7 | 12.3 | 19.4 | 17.4 | 27.1 | 372.3 | 1440.2 | 1583.4 | 1465.4 |
| 50° | 1.3 | 1.9 | 4.5 | 12.9 | 15.5 | 13.6 | 21.3 | 339.4 | 1475.0 | 1587.9 | 1484.7 |
| 52.5° | 0.0 | 0.0 | 2.6 | 13.6 | 11.6 | 10.3 | 18.7 | 326.5 | 1466.0 | 1602.1 | 1472.5 |
| 55° | 0.0 | 0.0 | 0.6 | 5.8 | 6.5 | 7.7 | 15.5 | 325.8 | 1529.9 | 1606.7 | 1539.6 |
| 57.5° | 0.0 | 0.0 | 0.0 | 1.9 | 3.9 | 6.5 | 13.6 | 305.2 | 1570.5 | 1718.9 | 1629.9 |
| 60° | 0.0 | 0.0 | 0.0 | 0.6 | 2.6 | 4.5 | 10.3 | 287.1 | 1611.8 | 1769.3 | 1726.7 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.9 | 7.1 | 259.4 | 1528.6 | 1765.4 | 1820.2 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 205.2 | 1375.0 | 1673.1 | 1768.6 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 142.0 | 1204.0 | 1557.0 | 1673.8 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 85.8 | 971.7 | 1365.3 | 1419.5 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.8 | 693.6 | 1084.0 | 1164.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.8 | 429.1 | 792.4 | 891.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 278.1 | 600.1 | 676.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 148.4 | 376.2 | 437.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.5 | 228.4 | 263.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20.6 | 138.7 | 158.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.3 | 28.4 |
| 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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| 65° | 1779.6 | 1687.3 | 1766.7 | 1802.2 | 1829.9 | 1846.0 | 1947.4 | 2023.5 | 1903.5 | 1840.9 |
| 67.5° | 1733.8 | 1555.7 | 1540.8 | 1542.8 | 1551.2 | 1648.6 | 1908.6 | 1920.9 | 1770.6 | 1718.9 |
| 70° | 1526.0 | 1276.3 | 1256.3 | 1271.8 | 1229.8 | 1347.3 | 1751.8 | 1746.0 | 1562.1 | 1508.6 |
| 72.5° | 1234.4 | 930.4 | 896.2 | 917.5 | 927.2 | 1051.8 | 1473.7 | 1324.0 | 1139.5 | 1097.6 |
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| 87.5° | 104.5 | 49.7 | 23.9 | 15.5 | 17.4 | 28.4 | 8.4 | 3.9 | 3.9 | 3.2 |
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