

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: P674252

Luminaire Tested: **CCP-SA-1E-730-U-SLR-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674252
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-730-U-SLR-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SLR distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

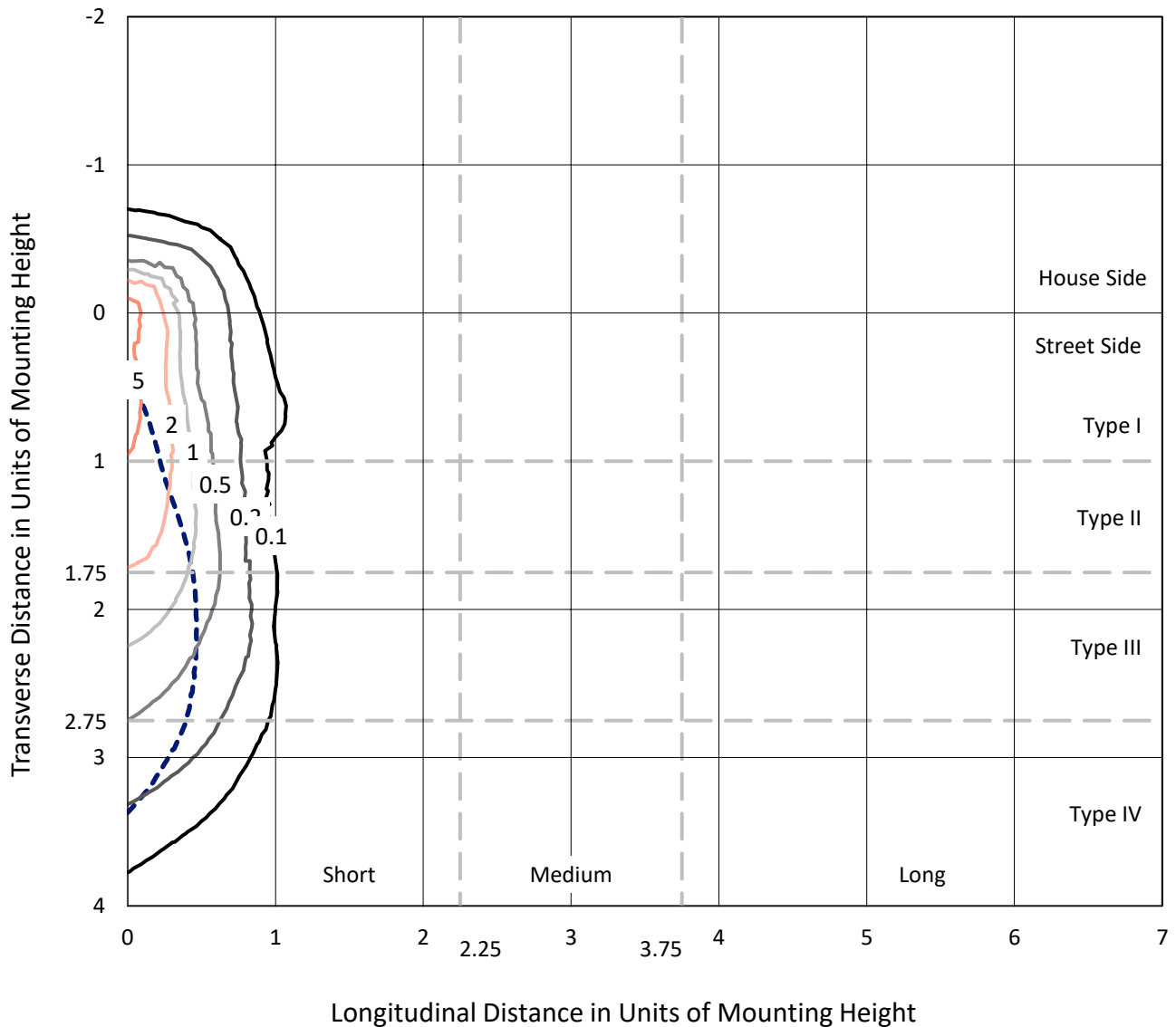
Lumens per Lamp: N/A
Luminaire Lumens: 4474.1 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

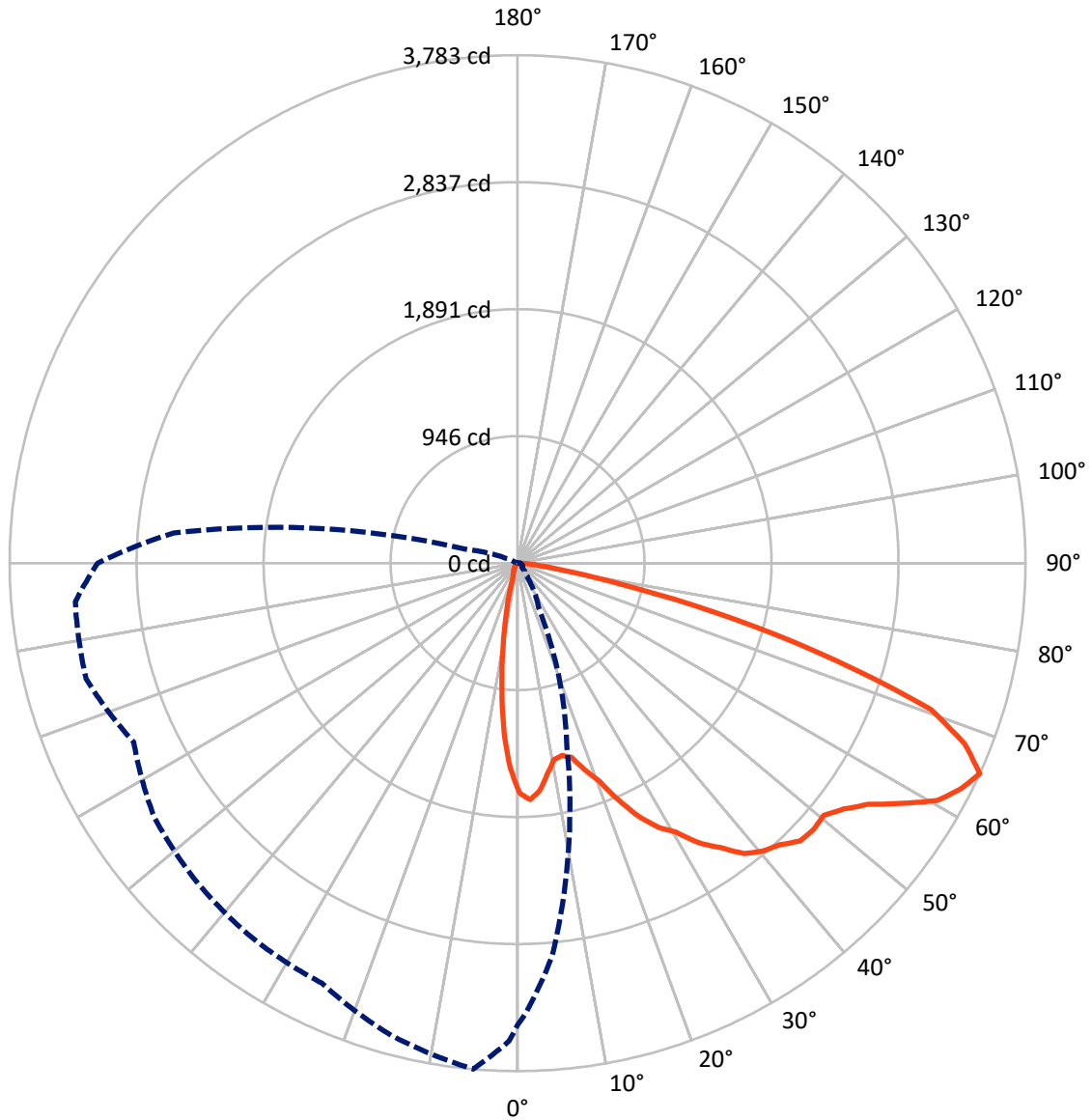
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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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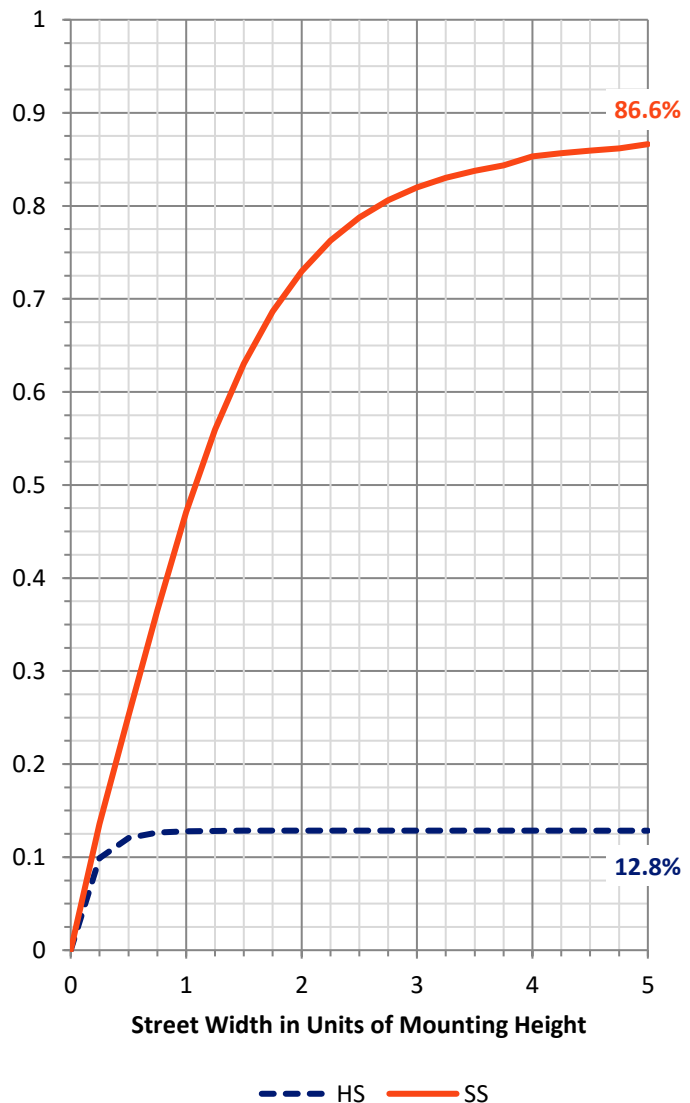
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 580.9 | 0.0 | 580.9 |
| | % Fixture | 13.0 | 0.0 | 13.0 |
| Street Side | Lumens | 3893.2 | 0.0 | 3893.2 |
| | % Fixture | 87.0 | 0.0 | 87.0 |
| Total | Lumens | 4474.1 | 0.0 | 4474.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.6 | 2.9 |
| 10°-20° | 250.9 | 5.6 |
| 20°-30° | 349.4 | 7.8 |
| 30°-40° | 496.5 | 11.1 |
| 40°-50° | 688.5 | 15.4 |
| 50°-60° | 938.1 | 21.0 |
| 60°-70° | 1031.4 | 23.1 |
| 70°-80° | 506.9 | 11.3 |
| 80°-90° | 82.8 | 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° | 4474.1 | 100.0 |
| 0°-180° | 4474.1 | 100.0 |



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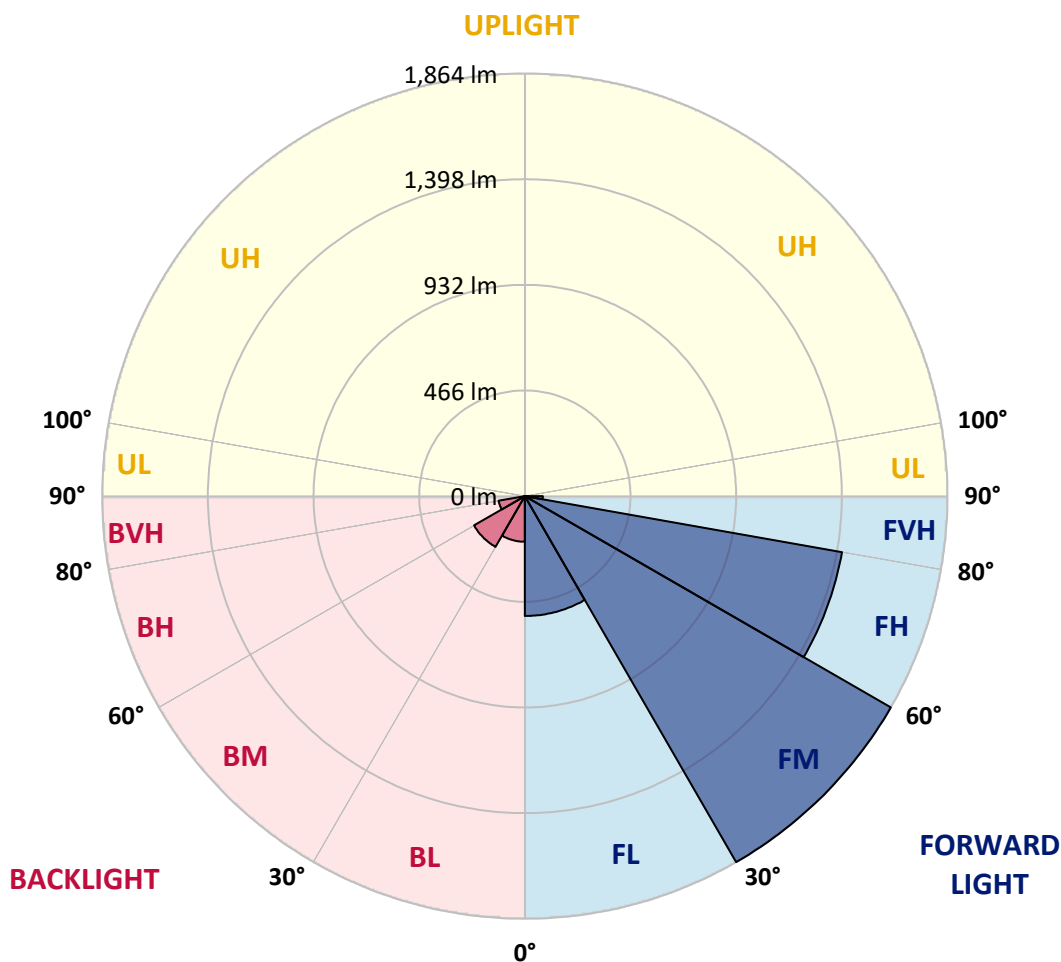
CATALOG NUMBER: CCP-SA-1E-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 528.7 | 11.8 | | | |
| FM (30°-60°) | 1864.5 | 41.7 | | | |
| FH (60°-80°) | 1420.9 | 31.8 | | | G1/1800 |
| FVH (80°-90°) | 79.0 | 1.8 | | | G1/100 |
| BL (0°-30°) | 201.1 | 4.5 | B1/500 | | |
| BM (30°-60°) | 258.6 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 117.4 | 2.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 |
| 2.5° | 1745.4 | 1765.9 | 1746.6 | 1679.1 | 1667.0 | 1634.4 | 1585.0 | 1581.4 | 1529.5 | 1535.5 | 1507.8 |
| 5° | 1640.5 | 1661.0 | 1620.0 | 1530.7 | 1447.5 | 1381.1 | 1341.3 | 1270.2 | 1254.5 | 1219.5 | 1219.5 |
| 7.5° | 1533.1 | 1531.9 | 1461.9 | 1387.2 | 1262.9 | 1141.1 | 1085.6 | 983.1 | 922.8 | 890.2 | 858.8 |
| 10° | 1443.9 | 1424.6 | 1381.1 | 1226.7 | 1091.6 | 965.0 | 896.2 | 828.7 | 766.0 | 711.7 | 657.4 |
| 12.5° | 1381.1 | 1393.2 | 1324.4 | 1156.8 | 981.9 | 893.8 | 820.2 | 749.1 | 674.3 | 612.8 | 552.5 |
| 15° | 1413.7 | 1394.4 | 1313.6 | 1141.1 | 963.8 | 843.2 | 745.4 | 658.6 | 575.4 | 494.6 | 448.7 |
| 17.5° | 1515.0 | 1465.6 | 1370.3 | 1141.1 | 926.4 | 766.0 | 647.7 | 545.2 | 456.0 | 383.6 | 326.9 |
| 20° | 1651.3 | 1594.6 | 1492.1 | 1183.3 | 898.6 | 709.3 | 547.6 | 418.6 | 325.7 | 258.1 | 214.7 |
| 22.5° | 1791.2 | 1746.6 | 1592.2 | 1200.2 | 866.1 | 633.3 | 431.8 | 302.8 | 217.1 | 173.7 | 152.0 |
| 25° | 1958.9 | 1896.2 | 1727.3 | 1267.7 | 817.8 | 559.7 | 340.2 | 211.1 | 161.6 | 138.7 | 125.4 |
| 27.5° | 2092.8 | 2081.9 | 1854.0 | 1308.8 | 781.6 | 499.4 | 269.0 | 167.7 | 133.9 | 117.0 | 108.6 |
| 30° | 2261.7 | 2202.6 | 2008.4 | 1390.8 | 740.6 | 430.6 | 224.4 | 150.8 | 123.0 | 104.9 | 98.9 |
| 32.5° | 2363.0 | 2335.3 | 2089.2 | 1436.6 | 694.8 | 373.9 | 193.0 | 132.7 | 112.2 | 98.9 | 92.9 |
| 35° | 2510.2 | 2454.7 | 2205.0 | 1465.6 | 670.7 | 341.4 | 173.7 | 120.6 | 94.1 | 80.8 | 73.6 |
| 37.5° | 2674.2 | 2653.7 | 2343.7 | 1464.4 | 635.7 | 322.1 | 160.4 | 112.2 | 89.3 | 74.8 | 66.3 |
| 40° | 2841.9 | 2758.6 | 2428.1 | 1498.1 | 617.6 | 307.6 | 150.8 | 107.4 | 84.4 | 71.2 | 60.3 |
| 42.5° | 2967.3 | 2872.0 | 2525.8 | 1486.1 | 595.9 | 282.3 | 147.2 | 100.1 | 80.8 | 65.1 | 55.5 |
| 45° | 3001.1 | 2967.3 | 2613.9 | 1482.5 | 580.2 | 261.8 | 141.1 | 98.9 | 78.4 | 61.5 | 51.9 |
| 47.5° | 3066.2 | 3043.3 | 2722.5 | 1488.5 | 568.1 | 246.1 | 126.7 | 101.3 | 74.8 | 57.9 | 49.5 |
| 50° | 3095.2 | 3054.2 | 2810.5 | 1503.0 | 540.4 | 226.8 | 113.4 | 106.1 | 73.6 | 56.7 | 47.0 |
| 52.5° | 3214.6 | 3178.4 | 2931.1 | 1544.0 | 517.5 | 201.4 | 100.1 | 101.3 | 76.0 | 53.1 | 44.6 |
| 55° | 3331.6 | 3290.6 | 3116.9 | 1638.1 | 484.9 | 180.9 | 85.6 | 89.3 | 72.4 | 48.2 | 39.8 |
| 57.5° | 3492.0 | 3424.5 | 3241.1 | 1676.7 | 456.0 | 153.2 | 76.0 | 73.6 | 67.5 | 43.4 | 35.0 |
| 60° | 3516.2 | 3543.9 | 3223.0 | 1652.5 | 425.8 | 135.1 | 66.3 | 56.7 | 72.4 | 38.6 | 30.2 |
| 62.5° | 3597.0 | 3481.2 | 3138.6 | 1597.0 | 404.1 | 124.2 | 59.1 | 47.0 | 62.7 | 33.8 | 25.3 |
| 65° | 3441.4 | 3355.7 | 2940.8 | 1418.5 | 376.3 | 125.4 | 51.9 | 38.6 | 39.8 | 27.7 | 20.5 |
| 67.5° | 3213.4 | 3145.8 | 2612.7 | 1224.3 | 348.6 | 123.0 | 45.8 | 33.8 | 30.2 | 24.1 | 18.1 |
| 70° | 2820.2 | 2674.2 | 2219.5 | 993.9 | 307.6 | 114.6 | 38.6 | 30.2 | 25.3 | 19.3 | 13.3 |
| 72.5° | 2051.8 | 1992.7 | 1592.2 | 768.4 | 276.2 | 103.7 | 36.2 | 25.3 | 21.7 | 14.5 | 10.9 |
| 75° | 1381.1 | 1283.4 | 1004.8 | 504.2 | 221.9 | 90.5 | 30.2 | 22.9 | 16.9 | 10.9 | 8.4 |
| 77.5° | 729.8 | 690.0 | 569.3 | 240.0 | 123.0 | 42.2 | 16.9 | 13.3 | 9.6 | 8.4 | 4.8 |
| 80° | 316.0 | 281.1 | 246.1 | 97.7 | 43.4 | 19.3 | 10.9 | 7.2 | 6.0 | 4.8 | 2.4 |
| 82.5° | 161.6 | 154.4 | 127.9 | 42.2 | 25.3 | 14.5 | 6.0 | 4.8 | 3.6 | 2.4 | 1.2 |
| 85° | 79.6 | 82.0 | 67.5 | 13.3 | 14.5 | 8.4 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.0 | 6.0 | 4.8 | 2.4 | 3.6 | 1.2 | 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° | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 |
| 2.5° | 1496.9 | 1513.8 | 1484.9 | 1503.0 | 1494.5 | 1498.1 | 1501.8 | 1492.1 | 1494.5 | 1528.3 | 1529.5 |
| 5° | 1199.0 | 1231.6 | 1219.5 | 1236.4 | 1265.3 | 1250.9 | 1264.1 | 1261.7 | 1264.1 | 1269.0 | 1290.7 |
| 7.5° | 855.2 | 845.6 | 868.5 | 913.1 | 965.0 | 996.3 | 980.7 | 972.2 | 967.4 | 955.3 | 969.8 |
| 10° | 645.3 | 640.5 | 634.5 | 647.7 | 681.5 | 716.5 | 735.8 | 703.2 | 685.1 | 662.2 | 653.8 |
| 12.5° | 535.6 | 505.4 | 488.5 | 468.0 | 477.7 | 509.0 | 510.2 | 478.9 | 449.9 | 437.9 | 451.1 |
| 15° | 422.2 | 401.7 | 371.5 | 342.6 | 328.1 | 352.2 | 331.7 | 301.6 | 264.2 | 259.3 | 258.1 |
| 17.5° | 301.6 | 289.5 | 267.8 | 255.7 | 238.8 | 232.8 | 211.1 | 165.3 | 138.7 | 131.5 | 133.9 |
| 20° | 205.1 | 195.4 | 194.2 | 183.3 | 176.1 | 171.3 | 136.3 | 106.1 | 97.7 | 98.9 | 100.1 |
| 22.5° | 152.0 | 147.2 | 141.1 | 139.9 | 133.9 | 127.9 | 100.1 | 89.3 | 83.2 | 83.2 | 86.8 |
| 25° | 124.2 | 121.8 | 115.8 | 113.4 | 111.0 | 102.5 | 84.4 | 76.0 | 73.6 | 71.2 | 74.8 |
| 27.5° | 106.1 | 104.9 | 101.3 | 97.7 | 95.3 | 86.8 | 73.6 | 66.3 | 63.9 | 63.9 | 63.9 |
| 30° | 95.3 | 95.3 | 90.5 | 83.2 | 83.2 | 73.6 | 62.7 | 57.9 | 55.5 | 55.5 | 54.3 |
| 32.5° | 89.3 | 86.8 | 80.8 | 76.0 | 72.4 | 62.7 | 55.5 | 50.7 | 47.0 | 47.0 | 48.2 |
| 35° | 72.4 | 72.4 | 71.2 | 67.5 | 62.7 | 53.1 | 47.0 | 42.2 | 39.8 | 38.6 | 39.8 |
| 37.5° | 63.9 | 60.3 | 55.5 | 56.7 | 54.3 | 45.8 | 39.8 | 36.2 | 32.6 | 32.6 | 32.6 |
| 40° | 57.9 | 54.3 | 49.5 | 45.8 | 44.6 | 41.0 | 35.0 | 28.9 | 25.3 | 24.1 | 24.1 |
| 42.5° | 51.9 | 49.5 | 42.2 | 36.2 | 35.0 | 35.0 | 26.5 | 21.7 | 18.1 | 18.1 | 18.1 |
| 45° | 48.2 | 44.6 | 38.6 | 31.4 | 25.3 | 26.5 | 21.7 | 15.7 | 13.3 | 12.1 | 12.1 |
| 47.5° | 45.8 | 42.2 | 33.8 | 26.5 | 19.3 | 19.3 | 15.7 | 10.9 | 8.4 | 7.2 | 7.2 |
| 50° | 42.2 | 38.6 | 30.2 | 21.7 | 14.5 | 12.1 | 9.6 | 6.0 | 3.6 | 2.4 | 2.4 |
| 52.5° | 39.8 | 36.2 | 26.5 | 18.1 | 12.1 | 8.4 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| 55° | 36.2 | 31.4 | 22.9 | 14.5 | 9.6 | 4.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 31.4 | 27.7 | 18.1 | 10.9 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 26.5 | 22.9 | 14.5 | 8.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 21.7 | 19.3 | 10.9 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 18.1 | 14.5 | 8.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 15.7 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 12.1 | 8.4 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8.4 | 6.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 6.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1.2 | 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: CCP-SA-1E-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 | 1710.4 |
| 2.5° | 1534.3 | 1570.5 | 1604.3 | 1613.9 | 1640.5 | 1714.0 | 1714.0 | 1749.0 | 1811.8 | 1834.7 | 1839.5 |
| 5° | 1294.3 | 1332.9 | 1340.1 | 1414.9 | 1449.9 | 1524.7 | 1574.1 | 1692.3 | 1763.5 | 1808.1 | 1835.9 |
| 7.5° | 984.3 | 997.5 | 1025.3 | 1095.3 | 1164.0 | 1254.5 | 1348.6 | 1499.3 | 1624.8 | 1675.4 | 1769.5 |
| 10° | 676.7 | 716.5 | 776.8 | 839.5 | 946.9 | 1047.0 | 1168.8 | 1311.2 | 1465.6 | 1528.3 | 1609.1 |
| 12.5° | 456.0 | 511.4 | 607.9 | 697.2 | 796.1 | 897.4 | 1013.2 | 1203.8 | 1378.7 | 1465.6 | 1546.4 |
| 15° | 266.6 | 334.1 | 417.4 | 562.1 | 693.6 | 807.0 | 922.8 | 1115.8 | 1328.1 | 1440.2 | 1539.1 |
| 17.5° | 135.1 | 155.6 | 224.4 | 349.8 | 523.5 | 709.3 | 881.8 | 1127.8 | 1366.7 | 1504.2 | 1586.2 |
| 20° | 101.3 | 107.4 | 126.7 | 185.8 | 358.2 | 586.2 | 843.2 | 1145.9 | 1474.0 | 1641.7 | 1686.3 |
| 22.5° | 88.1 | 92.9 | 101.3 | 120.6 | 201.4 | 448.7 | 788.9 | 1190.5 | 1620.0 | 1778.0 | 1872.1 |
| 25° | 74.8 | 79.6 | 86.8 | 98.9 | 129.1 | 305.2 | 722.5 | 1237.6 | 1750.2 | 1949.3 | 2037.3 |
| 27.5° | 65.1 | 68.8 | 76.0 | 85.6 | 104.9 | 194.2 | 607.9 | 1300.3 | 1949.3 | 2156.7 | 2179.7 |
| 30° | 55.5 | 59.1 | 65.1 | 76.0 | 89.3 | 137.5 | 446.3 | 1308.8 | 2059.0 | 2247.2 | 2311.1 |
| 32.5° | 48.2 | 49.5 | 56.7 | 66.3 | 74.8 | 108.6 | 313.6 | 1317.2 | 2139.8 | 2364.2 | 2377.5 |
| 35° | 39.8 | 42.2 | 49.5 | 55.5 | 65.1 | 85.6 | 237.6 | 1275.0 | 2244.8 | 2484.8 | 2481.2 |
| 37.5° | 32.6 | 36.2 | 41.0 | 45.8 | 53.1 | 72.4 | 189.4 | 1196.6 | 2376.3 | 2671.8 | 2558.4 |
| 40° | 25.3 | 28.9 | 33.8 | 39.8 | 44.6 | 65.1 | 142.3 | 1078.4 | 2513.8 | 2763.5 | 2642.8 |
| 42.5° | 18.1 | 20.5 | 25.3 | 31.4 | 39.8 | 54.3 | 102.5 | 938.4 | 2568.1 | 2870.8 | 2744.2 |
| 45° | 13.3 | 15.7 | 19.3 | 26.5 | 41.0 | 43.4 | 71.2 | 810.6 | 2626.0 | 2917.9 | 2721.2 |
| 47.5° | 7.2 | 9.6 | 14.5 | 22.9 | 36.2 | 32.6 | 50.7 | 696.0 | 2692.3 | 2960.1 | 2739.3 |
| 50° | 2.4 | 3.6 | 8.4 | 24.1 | 28.9 | 25.3 | 39.8 | 634.5 | 2757.4 | 2968.5 | 2775.5 |
| 52.5° | 0.0 | 0.0 | 4.8 | 25.3 | 21.7 | 19.3 | 35.0 | 610.4 | 2740.5 | 2995.1 | 2752.6 |
| 55° | 0.0 | 0.0 | 1.2 | 10.9 | 12.1 | 14.5 | 28.9 | 609.1 | 2860.0 | 3003.5 | 2878.1 |
| 57.5° | 0.0 | 0.0 | 0.0 | 3.6 | 7.2 | 12.1 | 25.3 | 570.5 | 2936.0 | 3213.4 | 3046.9 |
| 60° | 0.0 | 0.0 | 0.0 | 1.2 | 4.8 | 8.4 | 19.3 | 536.8 | 3013.2 | 3307.5 | 3227.9 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 3.6 | 13.3 | 484.9 | 2857.6 | 3300.2 | 3402.8 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 383.6 | 2570.5 | 3127.7 | 3306.3 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 265.4 | 2250.8 | 2910.6 | 3129.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 160.4 | 1816.6 | 2552.4 | 2653.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 68.8 | 1296.7 | 2026.5 | 2177.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.7 | 802.1 | 1481.2 | 1667.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 519.9 | 1121.8 | 1265.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 277.4 | 703.2 | 817.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 120.6 | 427.0 | 492.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.6 | 259.3 | 295.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.8 | 53.1 |
| 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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