

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: P674171

Luminaire Tested: **CCP-SA-1B-830-U-SLL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674171
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-SLL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SLL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

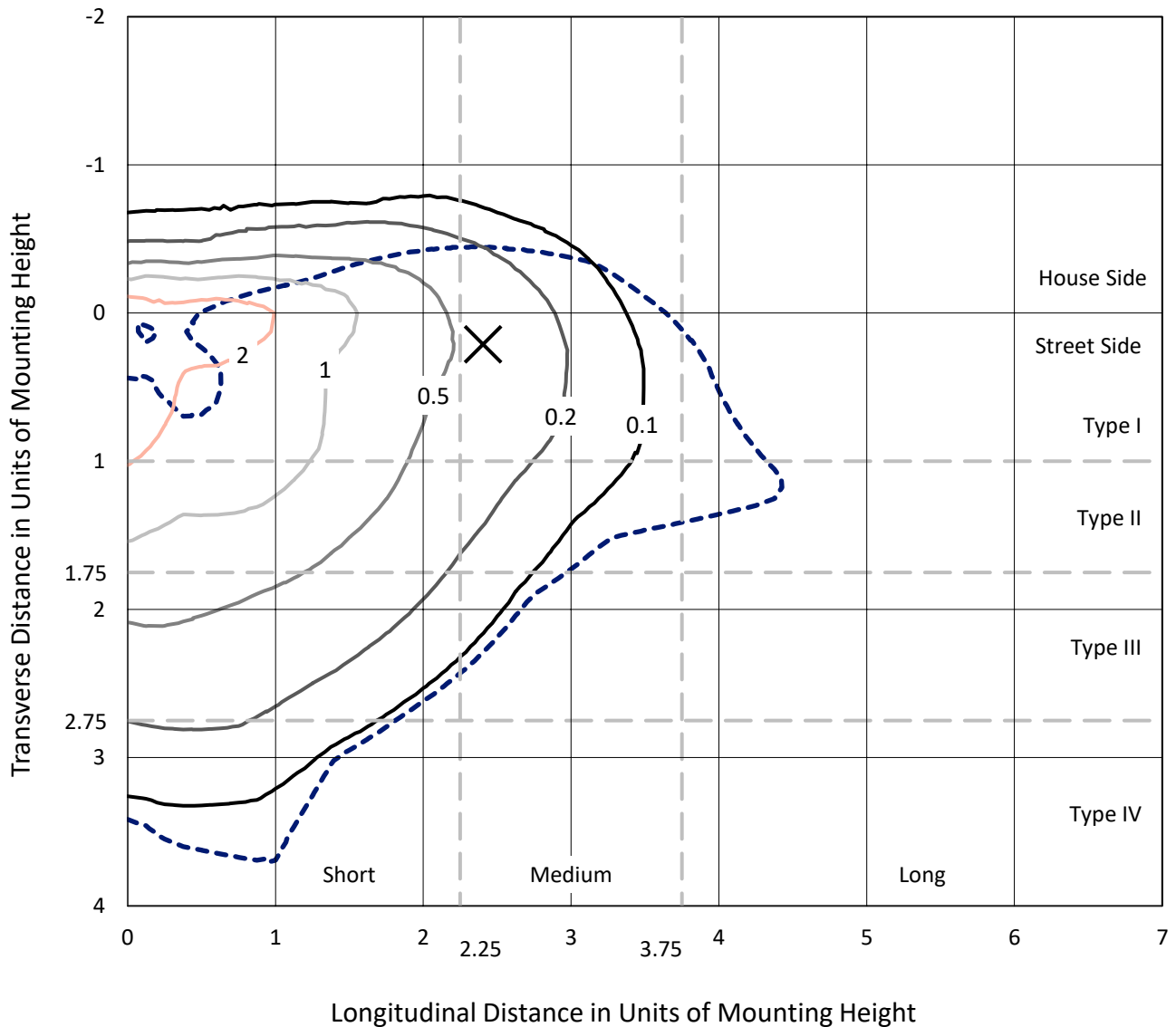
Lumens per Lamp: N/A
Luminaire Lumens: 1991 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

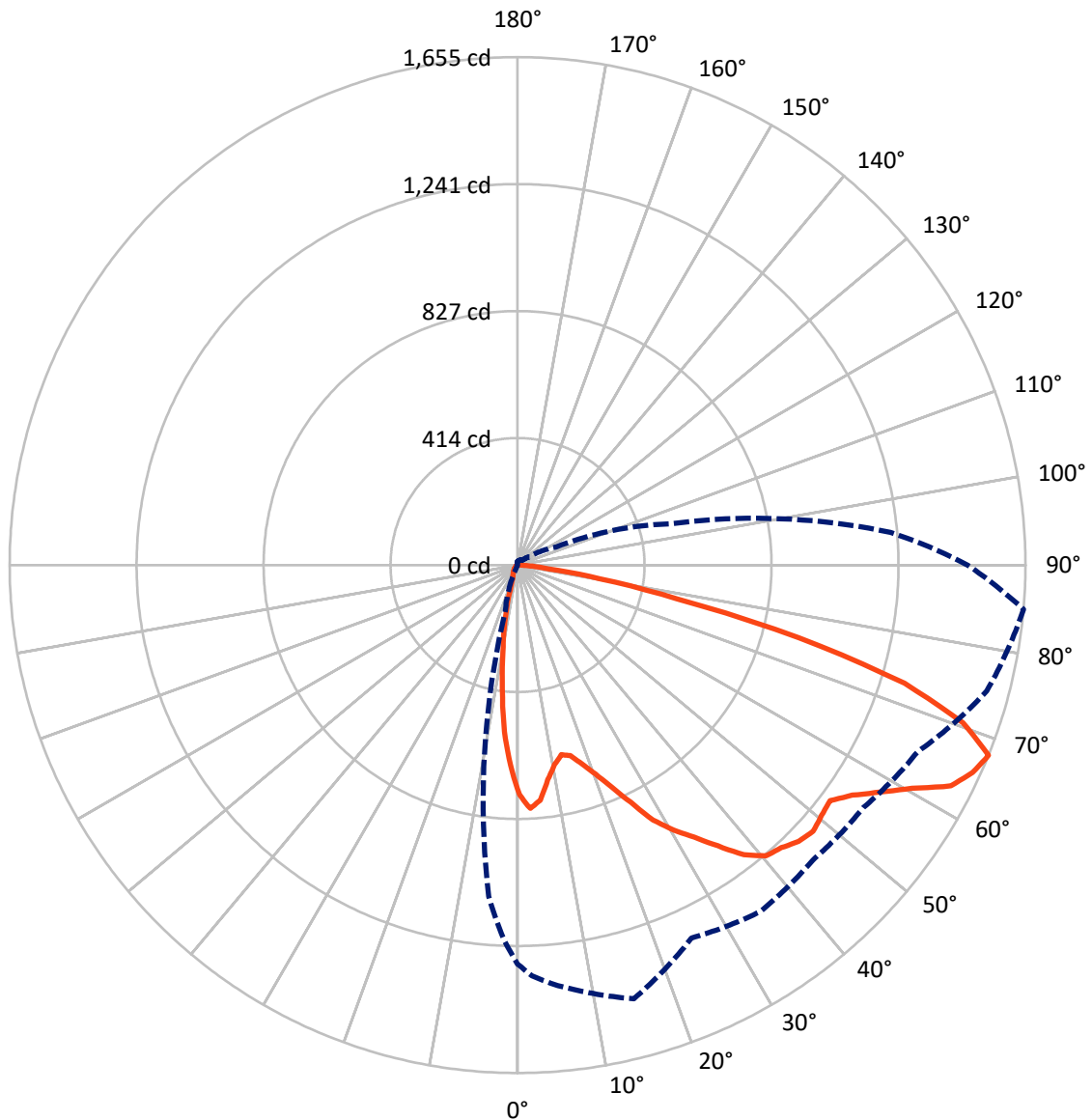
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 345.7 | 0.0 | 345.7 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 1645.3 | 0.0 | 1645.3 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 1991.0 | 0.0 | 1991.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.9 | 2.9 |
| 10°-20° | 111.5 | 5.6 |
| 20°-30° | 154.3 | 7.8 |
| 30°-40° | 218.1 | 11.0 |
| 40°-50° | 297.0 | 14.9 |
| 50°-60° | 393.3 | 19.8 |
| 60°-70° | 456.7 | 22.9 |
| 70°-80° | 258.6 | 13.0 |
| 80°-90° | 44.7 | 2.2 |
| 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° | 1991.0 | 100.0 |
| 0°-180° | 1991.0 | 100.0 |



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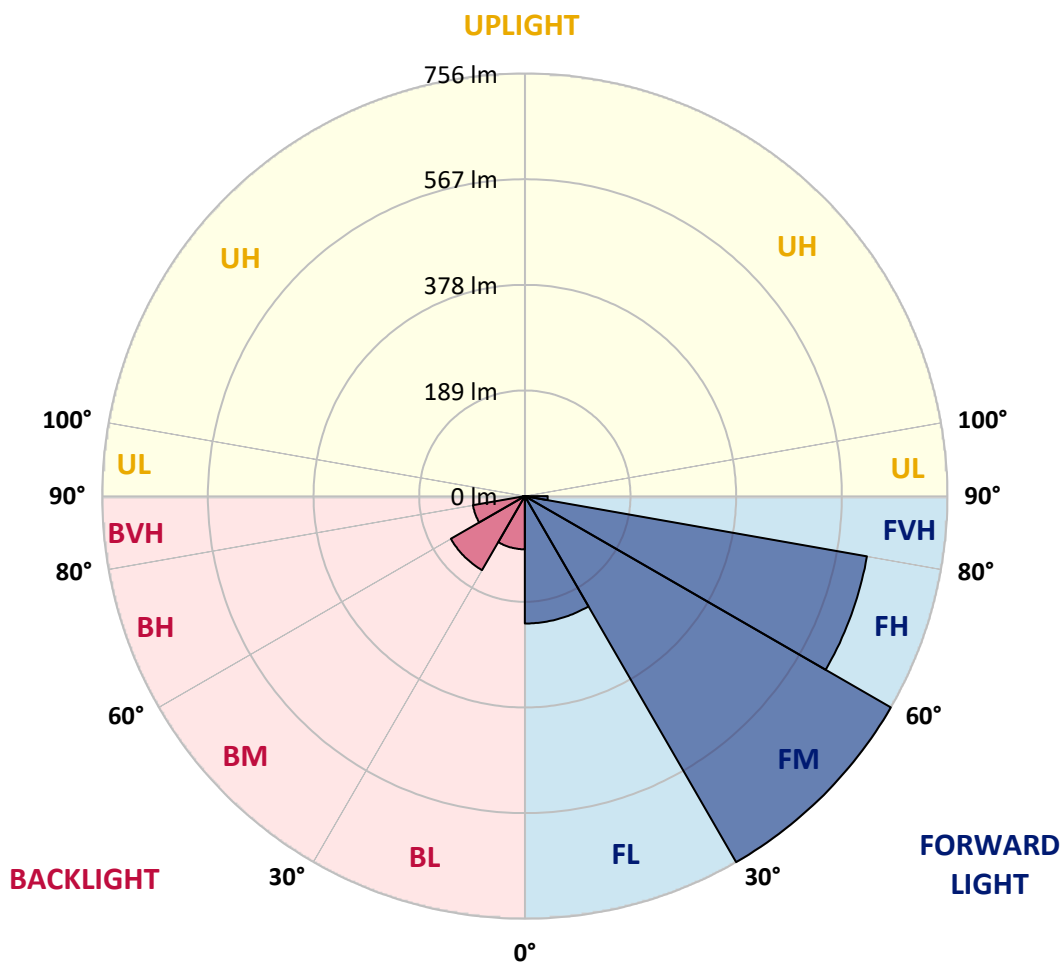
CATALOG NUMBER: CCP-SA-1B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 227.7 | 11.4 | | | |
| FM (30°-60°) | 755.6 | 38.0 | | | |
| FH (60°-80°) | 621.1 | 31.2 | | | G0/660 |
| FVH (80°-90°) | 40.9 | 2.1 | | | G1/100 |
| BL (0°-30°) | 95.0 | 4.8 | B0/110 | | |
| BM (30°-60°) | 152.8 | 7.7 | B0/220 | | |
| BH (60°-80°) | 94.2 | 4.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.8 | 0.2 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 |
| 2.5° | 777.9 | 794.3 | 794.9 | 802.3 | 809.8 | 809.8 | 827.3 | 823.1 | 807.6 | 805.0 | 793.8 |
| 5° | 783.7 | 789.6 | 793.8 | 831.6 | 863.5 | 860.3 | 869.8 | 863.5 | 833.7 | 795.4 | 769.4 |
| 7.5° | 733.2 | 739.6 | 756.6 | 820.9 | 864.0 | 878.4 | 896.4 | 856.6 | 825.2 | 756.1 | 706.1 |
| 10° | 666.2 | 678.4 | 709.8 | 783.2 | 836.3 | 882.1 | 882.1 | 850.2 | 789.6 | 722.0 | 660.9 |
| 12.5° | 629.0 | 653.4 | 670.5 | 744.9 | 814.0 | 845.4 | 844.3 | 827.3 | 788.0 | 702.9 | 633.8 |
| 15° | 635.4 | 642.3 | 678.4 | 736.4 | 782.1 | 780.5 | 799.7 | 794.3 | 766.7 | 719.9 | 643.9 |
| 17.5° | 664.6 | 675.2 | 706.6 | 736.4 | 758.2 | 751.8 | 751.3 | 776.8 | 778.4 | 748.6 | 681.6 |
| 20° | 712.5 | 743.8 | 758.7 | 767.8 | 741.2 | 714.1 | 710.9 | 746.5 | 774.1 | 785.3 | 726.8 |
| 22.5° | 789.0 | 809.8 | 840.1 | 793.8 | 724.7 | 690.7 | 684.3 | 723.6 | 779.5 | 828.9 | 785.3 |
| 25° | 864.0 | 879.9 | 909.2 | 849.6 | 743.3 | 685.9 | 674.7 | 708.7 | 799.7 | 889.5 | 856.0 |
| 27.5° | 943.2 | 957.0 | 960.2 | 890.6 | 753.4 | 676.3 | 663.0 | 708.7 | 816.7 | 921.4 | 940.6 |
| 30° | 991.6 | 1008.1 | 1011.3 | 926.7 | 769.9 | 684.3 | 677.9 | 711.9 | 828.4 | 948.5 | 1001.2 |
| 32.5° | 1045.8 | 1050.1 | 1047.4 | 933.1 | 788.0 | 707.7 | 681.1 | 733.2 | 841.7 | 981.0 | 1056.5 |
| 35° | 1110.7 | 1118.1 | 1091.0 | 962.4 | 828.4 | 722.6 | 713.0 | 759.3 | 864.5 | 995.9 | 1123.5 |
| 37.5° | 1160.1 | 1183.5 | 1122.4 | 973.5 | 836.3 | 753.9 | 755.5 | 813.5 | 880.5 | 1013.9 | 1197.4 |
| 40° | 1253.2 | 1213.9 | 1175.6 | 1011.8 | 866.7 | 807.1 | 798.6 | 869.3 | 934.2 | 1025.6 | 1245.8 |
| 42.5° | 1304.2 | 1283.5 | 1196.3 | 1015.5 | 913.4 | 880.5 | 882.6 | 932.6 | 962.4 | 1058.6 | 1259.0 |
| 45° | 1317.0 | 1295.2 | 1224.5 | 1018.2 | 959.7 | 967.1 | 1003.8 | 1013.4 | 1003.8 | 1080.4 | 1284.0 |
| 47.5° | 1349.4 | 1302.1 | 1221.3 | 1053.8 | 1034.7 | 1063.4 | 1110.2 | 1130.9 | 1060.2 | 1072.4 | 1295.7 |
| 50° | 1343.1 | 1315.9 | 1214.4 | 1068.7 | 1126.1 | 1202.2 | 1233.5 | 1225.0 | 1122.9 | 1055.9 | 1283.0 |
| 52.5° | 1316.5 | 1287.2 | 1235.6 | 1109.1 | 1211.7 | 1303.7 | 1347.3 | 1326.0 | 1178.8 | 1093.2 | 1274.5 |
| 55° | 1355.3 | 1332.9 | 1263.3 | 1163.9 | 1276.1 | 1393.0 | 1423.9 | 1407.9 | 1247.3 | 1127.7 | 1322.8 |
| 57.5° | 1397.3 | 1392.5 | 1338.3 | 1228.2 | 1352.1 | 1485.0 | 1485.0 | 1465.3 | 1306.9 | 1177.7 | 1394.6 |
| 60° | 1457.9 | 1468.5 | 1393.6 | 1270.7 | 1378.1 | 1479.7 | 1556.8 | 1533.9 | 1367.0 | 1265.4 | 1476.0 |
| 62.5° | 1438.2 | 1472.3 | 1464.8 | 1362.2 | 1407.9 | 1505.7 | 1547.8 | 1564.8 | 1441.4 | 1372.3 | 1584.4 |
| 65° | 1375.0 | 1411.1 | 1464.3 | 1422.3 | 1385.6 | 1442.5 | 1463.7 | 1515.3 | 1478.6 | 1472.8 | 1629.1 |
| 67.5° | 1299.5 | 1338.8 | 1371.8 | 1462.7 | 1340.4 | 1378.1 | 1359.5 | 1376.0 | 1438.2 | 1582.8 | 1654.6 |
| 70° | 1134.6 | 1172.4 | 1224.5 | 1372.8 | 1220.8 | 1186.7 | 1181.9 | 1174.0 | 1270.7 | 1543.5 | 1538.7 |
| 72.5° | 933.1 | 950.7 | 1036.8 | 1116.0 | 903.3 | 897.0 | 904.4 | 895.4 | 1007.6 | 1397.3 | 1318.1 |
| 75° | 698.6 | 716.2 | 765.1 | 857.1 | 615.2 | 578.5 | 621.0 | 663.0 | 769.4 | 1084.6 | 946.9 |
| 77.5° | 525.3 | 547.6 | 578.5 | 641.2 | 451.4 | 394.0 | 399.8 | 439.7 | 556.1 | 868.8 | 530.6 |
| 80° | 340.8 | 338.2 | 397.7 | 441.3 | 339.8 | 350.4 | 335.5 | 364.7 | 403.0 | 464.7 | 271.2 |
| 82.5° | 196.7 | 199.4 | 224.4 | 253.1 | 236.6 | 270.6 | 195.1 | 325.9 | 287.6 | 189.3 | 101.0 |
| 85° | 110.6 | 115.4 | 138.2 | 175.5 | 148.3 | 99.4 | 81.3 | 161.6 | 180.8 | 77.6 | 48.9 |
| 87.5° | 11.2 | 9.6 | 18.6 | 66.5 | 40.4 | 16.5 | 24.5 | 38.8 | 43.6 | 29.2 | 14.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 |
| 2.5° | 777.9 | 777.9 | 764.6 | 742.2 | 733.2 | 717.3 | 695.5 | 702.4 | 694.9 | 667.8 | 660.9 |
| 5° | 746.0 | 720.4 | 692.8 | 658.8 | 639.1 | 598.7 | 585.9 | 563.1 | 566.8 | 543.9 | 545.0 |
| 7.5° | 679.5 | 659.3 | 612.5 | 567.8 | 529.0 | 493.9 | 444.5 | 425.9 | 407.8 | 398.8 | 409.4 |
| 10° | 640.7 | 602.9 | 539.1 | 480.6 | 429.1 | 397.7 | 364.7 | 339.2 | 315.8 | 298.3 | 294.6 |
| 12.5° | 612.5 | 579.0 | 501.9 | 430.7 | 390.3 | 364.7 | 334.4 | 299.3 | 276.5 | 246.2 | 237.1 |
| 15° | 604.0 | 563.1 | 481.7 | 411.0 | 371.7 | 329.6 | 295.1 | 260.5 | 230.8 | 198.9 | 187.7 |
| 17.5° | 633.2 | 585.9 | 481.2 | 395.0 | 339.8 | 294.6 | 246.7 | 207.9 | 177.6 | 148.3 | 141.4 |
| 20° | 682.7 | 610.4 | 496.6 | 385.5 | 309.4 | 248.8 | 194.6 | 155.8 | 121.8 | 102.6 | 97.8 |
| 22.5° | 739.1 | 651.9 | 498.2 | 360.0 | 279.1 | 203.1 | 142.0 | 102.6 | 83.5 | 74.4 | 71.8 |
| 25° | 808.2 | 718.3 | 517.3 | 339.2 | 243.5 | 154.2 | 101.0 | 78.7 | 67.5 | 62.2 | 61.1 |
| 27.5° | 865.1 | 764.6 | 538.1 | 317.4 | 208.4 | 114.3 | 79.2 | 64.3 | 58.5 | 53.2 | 52.6 |
| 30° | 924.1 | 817.7 | 543.9 | 304.1 | 178.1 | 94.1 | 68.1 | 56.9 | 50.5 | 47.9 | 47.3 |
| 32.5° | 975.7 | 875.7 | 562.5 | 282.3 | 149.4 | 82.9 | 61.7 | 51.0 | 46.8 | 42.5 | 42.0 |
| 35° | 1042.1 | 909.2 | 571.6 | 270.6 | 138.8 | 75.0 | 56.4 | 46.8 | 40.4 | 37.8 | 36.7 |
| 37.5° | 1113.4 | 941.6 | 577.4 | 261.6 | 129.7 | 70.2 | 53.2 | 44.1 | 38.3 | 34.6 | 33.5 |
| 40° | 1179.8 | 987.4 | 568.9 | 250.4 | 122.8 | 64.3 | 51.0 | 40.9 | 35.6 | 31.9 | 30.3 |
| 42.5° | 1230.9 | 1032.0 | 566.3 | 239.8 | 115.4 | 62.2 | 48.4 | 39.3 | 33.5 | 29.2 | 28.7 |
| 45° | 1259.6 | 1062.3 | 547.6 | 231.3 | 109.5 | 63.3 | 47.3 | 37.2 | 31.9 | 28.2 | 26.1 |
| 47.5° | 1252.7 | 1085.7 | 552.4 | 228.6 | 101.6 | 59.0 | 46.8 | 35.6 | 29.2 | 26.1 | 24.5 |
| 50° | 1290.9 | 1133.0 | 544.5 | 220.1 | 95.7 | 53.2 | 51.0 | 35.6 | 28.7 | 25.0 | 23.4 |
| 52.5° | 1297.3 | 1176.1 | 561.5 | 204.7 | 86.7 | 48.9 | 50.5 | 35.1 | 27.6 | 23.9 | 21.8 |
| 55° | 1350.5 | 1226.1 | 594.4 | 196.2 | 79.2 | 42.5 | 46.3 | 34.0 | 25.0 | 21.8 | 20.7 |
| 57.5° | 1422.8 | 1329.8 | 615.7 | 188.2 | 69.1 | 37.2 | 38.8 | 33.5 | 22.9 | 20.2 | 18.6 |
| 60° | 1492.5 | 1371.2 | 617.3 | 173.9 | 59.5 | 33.5 | 30.3 | 33.5 | 21.3 | 18.1 | 16.5 |
| 62.5° | 1544.6 | 1371.2 | 606.7 | 161.6 | 52.1 | 29.8 | 26.6 | 31.9 | 19.1 | 16.0 | 14.9 |
| 65° | 1516.4 | 1334.5 | 579.0 | 151.5 | 47.3 | 26.1 | 22.9 | 24.5 | 17.0 | 13.8 | 12.8 |
| 67.5° | 1465.9 | 1220.2 | 517.9 | 139.3 | 46.8 | 22.9 | 19.7 | 18.1 | 14.9 | 12.2 | 11.2 |
| 70° | 1385.1 | 1066.0 | 431.2 | 125.5 | 45.7 | 20.7 | 17.5 | 15.4 | 13.3 | 10.6 | 9.6 |
| 72.5° | 1116.0 | 880.5 | 354.1 | 117.5 | 44.7 | 18.1 | 14.9 | 13.3 | 11.2 | 9.0 | 8.0 |
| 75° | 773.1 | 562.5 | 272.8 | 100.5 | 43.6 | 16.5 | 13.8 | 11.7 | 9.6 | 7.4 | 6.9 |
| 77.5° | 463.6 | 375.9 | 176.0 | 75.5 | 28.7 | 13.3 | 11.7 | 9.0 | 8.0 | 6.4 | 5.8 |
| 80° | 216.9 | 177.6 | 71.2 | 29.2 | 13.8 | 9.6 | 8.0 | 6.9 | 6.4 | 5.3 | 4.8 |
| 82.5° | 85.1 | 75.0 | 34.6 | 17.0 | 11.2 | 7.4 | 6.4 | 5.8 | 5.3 | 4.3 | 3.7 |
| 85° | 45.7 | 40.4 | 16.5 | 11.7 | 8.0 | 5.3 | 5.3 | 4.8 | 4.3 | 3.7 | 3.2 |
| 87.5° | 10.1 | 7.4 | 6.9 | 6.9 | 5.8 | 4.3 | 4.3 | 3.7 | 3.2 | 2.7 | 2.1 |
| 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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 CATALOG NUMBER: CCP-SA-1B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 | 748.6 |
| 2.5° | 657.2 | 665.1 | 652.4 | 660.4 | 649.2 | 657.7 | 658.8 | 650.8 | 652.9 | 663.6 | 668.3 |
| 5° | 559.9 | 554.6 | 542.9 | 539.1 | 539.7 | 532.8 | 535.4 | 539.1 | 545.0 | 548.2 | 557.7 |
| 7.5° | 403.6 | 415.8 | 415.3 | 424.3 | 424.8 | 423.8 | 416.3 | 400.4 | 405.7 | 401.4 | 406.7 |
| 10° | 288.7 | 294.0 | 304.1 | 310.0 | 320.6 | 314.8 | 297.7 | 291.4 | 288.2 | 287.6 | 293.0 |
| 12.5° | 230.8 | 218.0 | 216.9 | 219.1 | 224.4 | 217.5 | 209.0 | 201.5 | 205.2 | 212.7 | 218.5 |
| 15° | 178.6 | 168.0 | 154.2 | 152.1 | 153.1 | 149.9 | 140.9 | 131.3 | 134.0 | 141.4 | 145.7 |
| 17.5° | 137.2 | 124.9 | 115.4 | 109.0 | 106.9 | 95.7 | 82.4 | 74.4 | 72.3 | 71.8 | 75.5 |
| 20° | 92.5 | 90.4 | 88.8 | 80.8 | 80.8 | 64.9 | 53.7 | 47.9 | 47.9 | 48.9 | 49.4 |
| 22.5° | 69.1 | 66.5 | 67.0 | 65.4 | 61.1 | 48.4 | 42.5 | 40.9 | 40.9 | 42.0 | 42.0 |
| 25° | 60.1 | 56.4 | 55.3 | 54.8 | 50.5 | 41.5 | 37.2 | 35.6 | 35.6 | 36.7 | 36.7 |
| 27.5° | 51.0 | 50.0 | 48.4 | 46.3 | 42.5 | 35.6 | 33.0 | 31.4 | 31.9 | 32.4 | 31.9 |
| 30° | 46.8 | 44.1 | 42.0 | 42.0 | 37.8 | 31.9 | 29.8 | 28.7 | 27.6 | 28.7 | 29.2 |
| 32.5° | 41.5 | 39.9 | 38.8 | 37.2 | 32.4 | 28.2 | 26.1 | 25.0 | 24.5 | 24.5 | 25.0 |
| 35° | 35.6 | 35.6 | 34.6 | 32.4 | 28.2 | 25.5 | 22.9 | 21.8 | 21.3 | 21.8 | 21.8 |
| 37.5° | 31.9 | 30.3 | 30.8 | 28.7 | 25.0 | 22.3 | 19.7 | 18.6 | 18.6 | 18.1 | 18.6 |
| 40° | 29.8 | 27.1 | 25.5 | 24.5 | 22.3 | 19.1 | 17.0 | 16.0 | 15.4 | 15.4 | 15.4 |
| 42.5° | 26.6 | 24.5 | 21.3 | 20.7 | 20.2 | 16.5 | 13.8 | 13.3 | 12.8 | 12.2 | 12.2 |
| 45° | 25.0 | 21.8 | 19.1 | 16.5 | 16.5 | 13.8 | 11.7 | 10.6 | 10.1 | 9.6 | 10.1 |
| 47.5° | 22.9 | 19.7 | 16.5 | 13.8 | 13.3 | 11.2 | 9.0 | 8.0 | 7.4 | 7.4 | 7.4 |
| 50° | 21.8 | 17.5 | 14.4 | 11.7 | 10.1 | 9.0 | 6.9 | 5.8 | 5.3 | 5.3 | 5.3 |
| 52.5° | 20.2 | 16.5 | 12.8 | 10.1 | 8.0 | 6.9 | 5.3 | 4.3 | 3.7 | 3.7 | 3.7 |
| 55° | 18.1 | 14.9 | 11.2 | 8.5 | 6.9 | 5.3 | 3.7 | 2.7 | 2.1 | 2.1 | 2.1 |
| 57.5° | 17.0 | 13.3 | 9.6 | 7.4 | 5.3 | 3.7 | 2.1 | 1.6 | 1.6 | 1.1 | 1.6 |
| 60° | 15.4 | 11.7 | 8.0 | 5.8 | 4.3 | 2.7 | 1.6 | 0.5 | 0.5 | 0.5 | 0.5 |
| 62.5° | 13.3 | 10.1 | 6.9 | 4.8 | 3.2 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 11.2 | 8.0 | 5.3 | 3.7 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9.6 | 6.9 | 4.3 | 2.7 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8.5 | 5.8 | 3.2 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6.9 | 4.8 | 2.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5.8 | 3.7 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.8 | 2.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.7 | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.1 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 0.5 | 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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| 2.5° | 675.2 | 672.1 | 688.0 | 714.1 | 727.4 | 753.4 | 759.8 | 776.3 | 772.0 | 777.9 |
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| 22.5° | 44.7 | 49.4 | 63.8 | 121.2 | 235.5 | 366.3 | 526.4 | 707.7 | 765.1 | 789.0 |
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| 27.5° | 34.0 | 37.8 | 43.6 | 53.7 | 121.2 | 299.3 | 567.3 | 854.4 | 907.6 | 943.2 |
| 30° | 29.8 | 33.0 | 38.8 | 45.7 | 84.0 | 255.7 | 589.1 | 905.5 | 980.4 | 991.6 |
| 32.5° | 26.6 | 29.2 | 33.5 | 39.3 | 62.2 | 194.1 | 606.7 | 958.1 | 1021.4 | 1045.8 |
| 35° | 22.9 | 26.1 | 28.7 | 33.5 | 47.3 | 146.2 | 596.0 | 999.0 | 1081.5 | 1110.7 |
| 37.5° | 20.2 | 22.3 | 25.0 | 28.2 | 39.9 | 114.3 | 574.2 | 1048.0 | 1133.0 | 1160.1 |
| 40° | 17.0 | 18.6 | 21.8 | 25.0 | 36.2 | 88.3 | 549.2 | 1107.0 | 1205.3 | 1253.2 |
| 42.5° | 14.4 | 16.0 | 18.1 | 23.4 | 29.8 | 65.4 | 498.7 | 1152.7 | 1263.8 | 1304.2 |
| 45° | 11.2 | 13.3 | 16.5 | 23.4 | 23.9 | 48.4 | 446.6 | 1186.7 | 1296.8 | 1317.0 |
| 47.5° | 8.5 | 10.6 | 16.0 | 20.2 | 19.1 | 33.5 | 384.9 | 1225.5 | 1330.8 | 1349.4 |
| 50° | 6.4 | 8.5 | 18.1 | 17.5 | 16.0 | 25.5 | 346.1 | 1252.7 | 1332.9 | 1343.1 |
| 52.5° | 4.3 | 6.4 | 14.9 | 13.3 | 13.3 | 22.3 | 335.5 | 1251.6 | 1338.3 | 1316.5 |
| 55° | 3.2 | 4.8 | 8.5 | 9.6 | 11.7 | 19.7 | 325.9 | 1291.5 | 1339.9 | 1355.3 |
| 57.5° | 2.1 | 3.7 | 5.8 | 7.4 | 10.1 | 17.0 | 306.3 | 1339.3 | 1389.3 | 1397.3 |
| 60° | 1.1 | 2.7 | 4.3 | 5.8 | 8.5 | 14.9 | 278.6 | 1374.4 | 1449.4 | 1457.9 |
| 62.5° | 0.5 | 1.6 | 3.2 | 4.8 | 6.9 | 11.7 | 249.9 | 1318.6 | 1423.3 | 1438.2 |
| 65° | 0.0 | 1.1 | 2.1 | 3.2 | 4.3 | 8.5 | 203.1 | 1190.5 | 1320.2 | 1375.0 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.1 | 2.7 | 6.4 | 153.1 | 1083.1 | 1225.0 | 1299.5 |
| 70° | 0.0 | 0.0 | 0.5 | 0.5 | 1.6 | 4.8 | 97.8 | 897.0 | 1093.7 | 1134.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 3.2 | 56.9 | 666.2 | 857.1 | 933.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 28.7 | 428.5 | 596.6 | 698.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 15.4 | 276.5 | 439.7 | 525.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 9.0 | 160.6 | 281.3 | 340.8 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 78.7 | 168.0 | 196.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 42.0 | 84.0 | 110.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 5.8 | 11.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)