

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: P677338

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677338
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-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

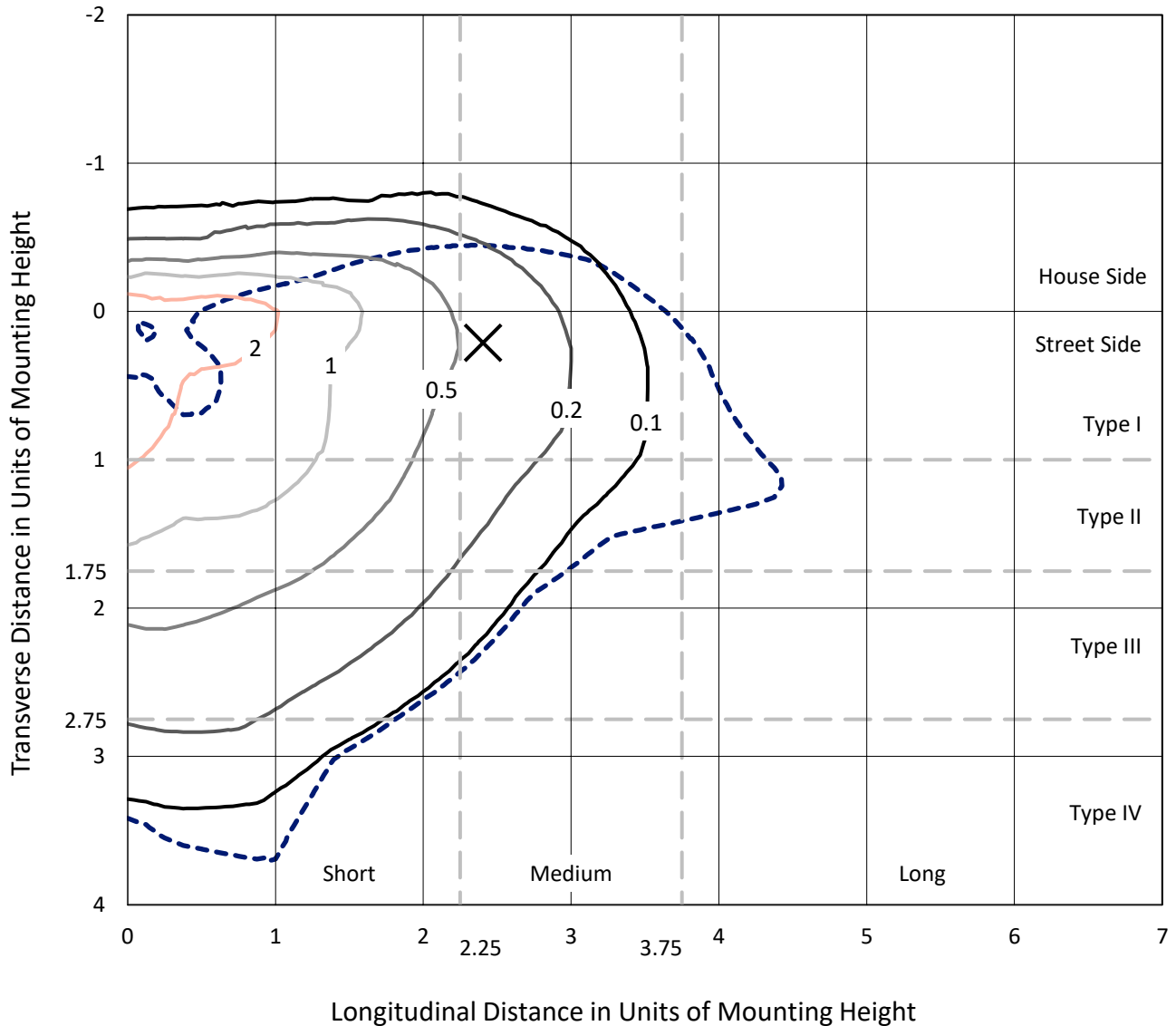
Lumens per Lamp: N/A
Luminaire Lumens: 2064.7 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

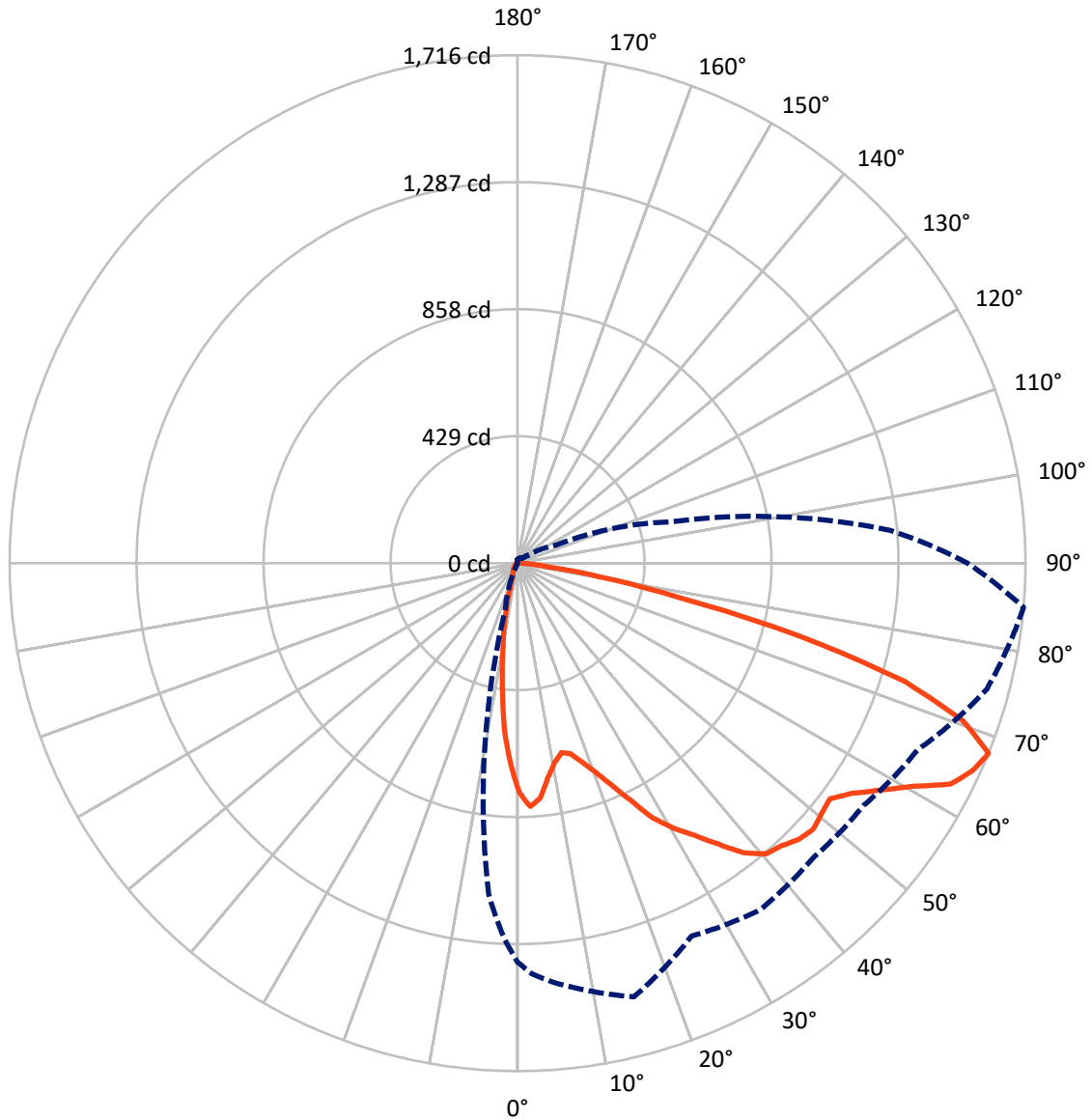
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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 | 358.5 | 0.0 | 358.5 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 1706.2 | 0.0 | 1706.2 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 2064.7 | 0.0 | 2064.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.0 | 2.9 |
| 10°-20° | 115.7 | 5.6 |
| 20°-30° | 160.0 | 7.8 |
| 30°-40° | 226.2 | 11.0 |
| 40°-50° | 307.9 | 14.9 |
| 50°-60° | 407.9 | 19.8 |
| 60°-70° | 473.6 | 22.9 |
| 70°-80° | 268.2 | 13.0 |
| 80°-90° | 46.3 | 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° | 2064.7 | 100.0 |
| 0°-180° | 2064.7 | 100.0 |



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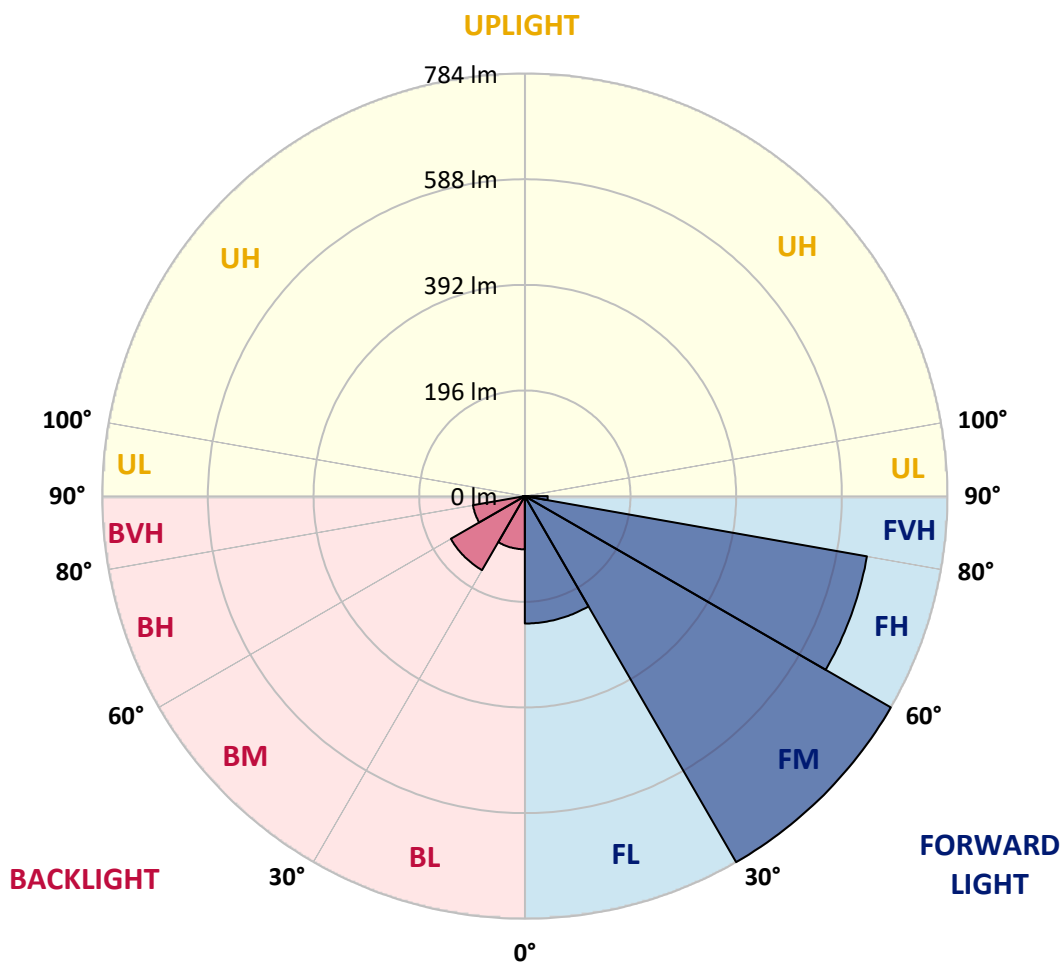
CATALOG NUMBER: CCW-SA-1B-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 236.1 | 11.4 | | | |
| FM (30°-60°) | 783.6 | 38.0 | | | |
| FH (60°-80°) | 644.1 | 31.2 | | | G0/660 |
| FVH (80°-90°) | 42.4 | 2.1 | | | G1/100 |
| BL (0°-30°) | 98.6 | 4.8 | B0/110 | | |
| BM (30°-60°) | 158.4 | 7.7 | B0/220 | | |
| BH (60°-80°) | 97.6 | 4.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.9 | 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° | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 |
| 2.5° | 806.6 | 823.7 | 824.3 | 832.0 | 839.7 | 839.7 | 857.9 | 853.5 | 837.5 | 834.8 | 823.2 |
| 5° | 812.7 | 818.8 | 823.2 | 862.3 | 895.4 | 892.1 | 902.0 | 895.4 | 864.5 | 824.8 | 797.8 |
| 7.5° | 760.3 | 766.9 | 784.6 | 851.3 | 896.0 | 910.9 | 929.6 | 888.2 | 855.7 | 784.0 | 732.2 |
| 10° | 690.9 | 703.5 | 736.1 | 812.2 | 867.3 | 914.7 | 914.7 | 881.6 | 818.8 | 748.8 | 685.3 |
| 12.5° | 652.3 | 677.6 | 695.3 | 772.5 | 844.1 | 876.7 | 875.6 | 857.9 | 817.1 | 728.9 | 657.2 |
| 15° | 658.9 | 666.0 | 703.5 | 763.6 | 811.1 | 809.4 | 829.3 | 823.7 | 795.1 | 746.5 | 667.7 |
| 17.5° | 689.2 | 700.2 | 732.8 | 763.6 | 786.2 | 779.6 | 779.1 | 805.5 | 807.2 | 776.3 | 706.8 |
| 20° | 738.8 | 771.4 | 786.8 | 796.2 | 768.6 | 740.5 | 737.2 | 774.1 | 802.8 | 814.4 | 753.7 |
| 22.5° | 818.2 | 839.7 | 871.2 | 823.2 | 751.5 | 716.2 | 709.6 | 750.4 | 808.3 | 859.6 | 814.4 |
| 25° | 896.0 | 912.5 | 942.8 | 881.1 | 770.8 | 711.3 | 699.7 | 735.0 | 829.3 | 922.4 | 887.7 |
| 27.5° | 978.1 | 992.5 | 995.8 | 923.5 | 781.3 | 701.3 | 687.6 | 735.0 | 846.9 | 955.5 | 975.4 |
| 30° | 1028.3 | 1045.4 | 1048.7 | 961.0 | 798.4 | 709.6 | 703.0 | 738.3 | 859.0 | 983.6 | 1038.2 |
| 32.5° | 1084.5 | 1088.9 | 1086.2 | 967.6 | 817.1 | 733.9 | 706.3 | 760.3 | 872.8 | 1017.3 | 1095.6 |
| 35° | 1151.8 | 1159.5 | 1131.4 | 998.0 | 859.0 | 749.3 | 739.4 | 787.3 | 896.5 | 1032.7 | 1165.0 |
| 37.5° | 1203.1 | 1227.3 | 1163.9 | 1009.5 | 867.3 | 781.8 | 783.5 | 843.6 | 913.1 | 1051.4 | 1241.7 |
| 40° | 1299.6 | 1258.8 | 1219.1 | 1049.2 | 898.7 | 837.0 | 828.1 | 901.5 | 968.7 | 1063.6 | 1291.8 |
| 42.5° | 1352.5 | 1331.0 | 1240.6 | 1053.1 | 947.2 | 913.1 | 915.3 | 967.1 | 998.0 | 1097.8 | 1305.6 |
| 45° | 1365.7 | 1343.1 | 1269.8 | 1055.9 | 995.2 | 1002.9 | 1041.0 | 1050.9 | 1041.0 | 1120.4 | 1331.5 |
| 47.5° | 1399.4 | 1350.3 | 1266.5 | 1092.8 | 1073.0 | 1102.7 | 1151.2 | 1172.7 | 1099.4 | 1112.1 | 1343.7 |
| 50° | 1392.7 | 1364.6 | 1259.3 | 1108.2 | 1167.8 | 1246.6 | 1279.2 | 1270.3 | 1164.5 | 1095.0 | 1330.4 |
| 52.5° | 1365.2 | 1334.9 | 1281.4 | 1150.1 | 1256.6 | 1351.9 | 1397.2 | 1375.1 | 1222.4 | 1133.6 | 1321.6 |
| 55° | 1405.4 | 1382.3 | 1310.0 | 1206.9 | 1323.3 | 1444.6 | 1476.6 | 1460.0 | 1293.5 | 1169.4 | 1371.8 |
| 57.5° | 1449.0 | 1444.0 | 1387.8 | 1273.6 | 1402.1 | 1540.0 | 1540.0 | 1519.6 | 1355.3 | 1221.3 | 1446.2 |
| 60° | 1511.8 | 1522.9 | 1445.1 | 1317.8 | 1429.1 | 1534.4 | 1614.4 | 1590.7 | 1417.6 | 1312.2 | 1530.6 |
| 62.5° | 1491.4 | 1526.7 | 1519.0 | 1412.6 | 1460.0 | 1561.5 | 1605.0 | 1622.7 | 1494.7 | 1423.1 | 1643.1 |
| 65° | 1425.8 | 1463.3 | 1518.5 | 1474.9 | 1436.9 | 1495.8 | 1517.9 | 1571.4 | 1533.3 | 1527.3 | 1689.4 |
| 67.5° | 1347.5 | 1388.3 | 1422.5 | 1516.8 | 1390.0 | 1429.1 | 1409.8 | 1426.9 | 1491.4 | 1641.4 | 1715.8 |
| 70° | 1176.6 | 1215.8 | 1269.8 | 1423.6 | 1265.9 | 1230.6 | 1225.7 | 1217.4 | 1317.8 | 1600.6 | 1595.6 |
| 72.5° | 967.6 | 985.8 | 1075.2 | 1157.3 | 936.8 | 930.2 | 937.9 | 928.5 | 1044.8 | 1449.0 | 1366.8 |
| 75° | 724.5 | 742.7 | 793.4 | 888.8 | 637.9 | 599.9 | 644.0 | 687.6 | 797.8 | 1124.8 | 982.0 |
| 77.5° | 544.7 | 567.9 | 599.9 | 664.9 | 468.1 | 408.6 | 414.6 | 456.0 | 576.7 | 900.9 | 550.3 |
| 80° | 353.4 | 350.7 | 412.4 | 457.6 | 352.3 | 363.3 | 347.9 | 378.2 | 417.9 | 481.9 | 281.2 |
| 82.5° | 204.0 | 206.8 | 232.7 | 262.4 | 245.4 | 280.6 | 202.4 | 338.0 | 298.3 | 196.3 | 104.8 |
| 85° | 114.7 | 119.6 | 143.4 | 181.9 | 153.8 | 103.1 | 84.4 | 167.6 | 187.5 | 80.5 | 50.7 |
| 87.5° | 11.6 | 9.9 | 19.3 | 68.9 | 41.9 | 17.1 | 25.4 | 40.2 | 45.2 | 30.3 | 14.9 |
| 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° | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 |
| 2.5° | 806.6 | 806.6 | 792.9 | 769.7 | 760.3 | 743.8 | 721.2 | 728.4 | 720.6 | 692.5 | 685.3 |
| 5° | 773.6 | 747.1 | 718.4 | 683.1 | 662.7 | 620.8 | 607.6 | 583.9 | 587.8 | 564.0 | 565.1 |
| 7.5° | 704.6 | 683.7 | 635.2 | 588.9 | 548.6 | 512.2 | 460.9 | 441.6 | 422.9 | 413.5 | 424.5 |
| 10° | 664.4 | 625.2 | 559.1 | 498.4 | 445.0 | 412.4 | 378.2 | 351.8 | 327.5 | 309.3 | 305.5 |
| 12.5° | 635.2 | 600.4 | 520.5 | 446.6 | 404.7 | 378.2 | 346.8 | 310.4 | 286.7 | 255.3 | 245.9 |
| 15° | 626.3 | 583.9 | 499.5 | 426.2 | 385.4 | 341.8 | 306.0 | 270.2 | 239.3 | 206.2 | 194.6 |
| 17.5° | 656.7 | 607.6 | 499.0 | 409.7 | 352.3 | 305.5 | 255.8 | 215.6 | 184.2 | 153.8 | 146.7 |
| 20° | 708.0 | 633.0 | 515.0 | 399.7 | 320.9 | 258.0 | 201.8 | 161.5 | 126.3 | 106.4 | 101.5 |
| 22.5° | 766.4 | 676.0 | 516.6 | 373.3 | 289.5 | 210.6 | 147.2 | 106.4 | 86.6 | 77.2 | 74.4 |
| 25° | 838.1 | 744.9 | 536.5 | 351.8 | 252.5 | 159.9 | 104.8 | 81.6 | 70.0 | 64.5 | 63.4 |
| 27.5° | 897.1 | 792.9 | 558.0 | 329.2 | 216.1 | 118.5 | 82.2 | 66.7 | 60.6 | 55.1 | 54.6 |
| 30° | 958.3 | 848.0 | 564.0 | 315.4 | 184.7 | 97.6 | 70.6 | 59.0 | 52.4 | 49.6 | 49.1 |
| 32.5° | 1011.8 | 908.1 | 583.3 | 292.8 | 154.9 | 86.0 | 64.0 | 52.9 | 48.5 | 44.1 | 43.6 |
| 35° | 1080.7 | 942.8 | 592.7 | 280.6 | 143.9 | 77.7 | 58.4 | 48.5 | 41.9 | 39.1 | 38.0 |
| 37.5° | 1154.6 | 976.5 | 598.8 | 271.3 | 134.5 | 72.8 | 55.1 | 45.8 | 39.7 | 35.8 | 34.7 |
| 40° | 1223.5 | 1023.9 | 590.0 | 259.7 | 127.4 | 66.7 | 52.9 | 42.5 | 36.9 | 33.1 | 31.4 |
| 42.5° | 1276.4 | 1070.2 | 587.2 | 248.7 | 119.6 | 64.5 | 50.2 | 40.8 | 34.7 | 30.3 | 29.8 |
| 45° | 1306.2 | 1101.6 | 567.9 | 239.8 | 113.6 | 65.6 | 49.1 | 38.6 | 33.1 | 29.2 | 27.0 |
| 47.5° | 1299.0 | 1125.9 | 572.9 | 237.1 | 105.3 | 61.2 | 48.5 | 36.9 | 30.3 | 27.0 | 25.4 |
| 50° | 1338.7 | 1175.0 | 564.6 | 228.3 | 99.2 | 55.1 | 52.9 | 36.9 | 29.8 | 25.9 | 24.3 |
| 52.5° | 1345.3 | 1219.6 | 582.2 | 212.3 | 89.9 | 50.7 | 52.4 | 36.4 | 28.7 | 24.8 | 22.6 |
| 55° | 1400.5 | 1271.4 | 616.4 | 203.5 | 82.2 | 44.1 | 48.0 | 35.3 | 25.9 | 22.6 | 21.5 |
| 57.5° | 1475.4 | 1379.0 | 638.5 | 195.2 | 71.7 | 38.6 | 40.2 | 34.7 | 23.7 | 21.0 | 19.3 |
| 60° | 1547.7 | 1422.0 | 640.1 | 180.3 | 61.8 | 34.7 | 31.4 | 34.7 | 22.1 | 18.7 | 17.1 |
| 62.5° | 1601.7 | 1422.0 | 629.1 | 167.6 | 54.0 | 30.9 | 27.6 | 33.1 | 19.8 | 16.5 | 15.4 |
| 65° | 1572.5 | 1383.9 | 600.4 | 157.1 | 49.1 | 27.0 | 23.7 | 25.4 | 17.6 | 14.3 | 13.2 |
| 67.5° | 1520.1 | 1265.4 | 537.0 | 144.5 | 48.5 | 23.7 | 20.4 | 18.7 | 15.4 | 12.7 | 11.6 |
| 70° | 1436.3 | 1105.5 | 447.2 | 130.1 | 47.4 | 21.5 | 18.2 | 16.0 | 13.8 | 11.0 | 9.9 |
| 72.5° | 1157.3 | 913.1 | 367.2 | 121.9 | 46.3 | 18.7 | 15.4 | 13.8 | 11.6 | 9.4 | 8.3 |
| 75° | 801.7 | 583.3 | 282.8 | 104.2 | 45.2 | 17.1 | 14.3 | 12.1 | 9.9 | 7.7 | 7.2 |
| 77.5° | 480.8 | 389.8 | 182.5 | 78.3 | 29.8 | 13.8 | 12.1 | 9.4 | 8.3 | 6.6 | 6.1 |
| 80° | 225.0 | 184.2 | 73.9 | 30.3 | 14.3 | 9.9 | 8.3 | 7.2 | 6.6 | 5.5 | 5.0 |
| 82.5° | 88.2 | 77.7 | 35.8 | 17.6 | 11.6 | 7.7 | 6.6 | 6.1 | 5.5 | 4.4 | 3.9 |
| 85° | 47.4 | 41.9 | 17.1 | 12.1 | 8.3 | 5.5 | 5.5 | 5.0 | 4.4 | 3.9 | 3.3 |
| 87.5° | 10.5 | 7.7 | 7.2 | 7.2 | 6.1 | 4.4 | 4.4 | 3.9 | 3.3 | 2.8 | 2.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 | 776.3 |
| 2.5° | 681.5 | 689.8 | 676.5 | 684.8 | 673.2 | 682.0 | 683.1 | 674.9 | 677.1 | 688.1 | 693.1 |
| 5° | 580.6 | 575.1 | 562.9 | 559.1 | 559.6 | 552.5 | 555.2 | 559.1 | 565.1 | 568.5 | 578.4 |
| 7.5° | 418.5 | 431.2 | 430.6 | 440.0 | 440.5 | 439.4 | 431.7 | 415.2 | 420.7 | 416.3 | 421.8 |
| 10° | 299.4 | 304.9 | 315.4 | 321.4 | 332.5 | 326.4 | 308.8 | 302.1 | 298.8 | 298.3 | 303.8 |
| 12.5° | 239.3 | 226.1 | 225.0 | 227.2 | 232.7 | 225.5 | 216.7 | 209.0 | 212.8 | 220.5 | 226.6 |
| 15° | 185.3 | 174.2 | 159.9 | 157.7 | 158.8 | 155.5 | 146.1 | 136.2 | 138.9 | 146.7 | 151.1 |
| 17.5° | 142.3 | 129.6 | 119.6 | 113.0 | 110.8 | 99.2 | 85.5 | 77.2 | 75.0 | 74.4 | 78.3 |
| 20° | 95.9 | 93.7 | 92.1 | 83.8 | 83.8 | 67.3 | 55.7 | 49.6 | 49.6 | 50.7 | 51.3 |
| 22.5° | 71.7 | 68.9 | 69.5 | 67.8 | 63.4 | 50.2 | 44.1 | 42.5 | 42.5 | 43.6 | 43.6 |
| 25° | 62.3 | 58.4 | 57.3 | 56.8 | 52.4 | 43.0 | 38.6 | 36.9 | 36.9 | 38.0 | 38.0 |
| 27.5° | 52.9 | 51.8 | 50.2 | 48.0 | 44.1 | 36.9 | 34.2 | 32.5 | 33.1 | 33.6 | 33.1 |
| 30° | 48.5 | 45.8 | 43.6 | 43.6 | 39.1 | 33.1 | 30.9 | 29.8 | 28.7 | 29.8 | 30.3 |
| 32.5° | 43.0 | 41.4 | 40.2 | 38.6 | 33.6 | 29.2 | 27.0 | 25.9 | 25.4 | 25.4 | 25.9 |
| 35° | 36.9 | 36.9 | 35.8 | 33.6 | 29.2 | 26.5 | 23.7 | 22.6 | 22.1 | 22.6 | 22.6 |
| 37.5° | 33.1 | 31.4 | 32.0 | 29.8 | 25.9 | 23.2 | 20.4 | 19.3 | 19.3 | 18.7 | 19.3 |
| 40° | 30.9 | 28.1 | 26.5 | 25.4 | 23.2 | 19.8 | 17.6 | 16.5 | 16.0 | 16.0 | 16.0 |
| 42.5° | 27.6 | 25.4 | 22.1 | 21.5 | 21.0 | 17.1 | 14.3 | 13.8 | 13.2 | 12.7 | 12.7 |
| 45° | 25.9 | 22.6 | 19.8 | 17.1 | 17.1 | 14.3 | 12.1 | 11.0 | 10.5 | 9.9 | 10.5 |
| 47.5° | 23.7 | 20.4 | 17.1 | 14.3 | 13.8 | 11.6 | 9.4 | 8.3 | 7.7 | 7.7 | 7.7 |
| 50° | 22.6 | 18.2 | 14.9 | 12.1 | 10.5 | 9.4 | 7.2 | 6.1 | 5.5 | 5.5 | 5.5 |
| 52.5° | 21.0 | 17.1 | 13.2 | 10.5 | 8.3 | 7.2 | 5.5 | 4.4 | 3.9 | 3.9 | 3.9 |
| 55° | 18.7 | 15.4 | 11.6 | 8.8 | 7.2 | 5.5 | 3.9 | 2.8 | 2.2 | 2.2 | 2.2 |
| 57.5° | 17.6 | 13.8 | 9.9 | 7.7 | 5.5 | 3.9 | 2.2 | 1.7 | 1.7 | 1.1 | 1.7 |
| 60° | 16.0 | 12.1 | 8.3 | 6.1 | 4.4 | 2.8 | 1.7 | 0.6 | 0.6 | 0.6 | 0.6 |
| 62.5° | 13.8 | 10.5 | 7.2 | 5.0 | 3.3 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 11.6 | 8.3 | 5.5 | 3.9 | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9.9 | 7.2 | 4.4 | 2.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8.8 | 6.1 | 3.3 | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 7.2 | 5.0 | 2.8 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 6.1 | 3.9 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5.0 | 2.8 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3.9 | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 0.6 | 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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| 17.5° | 97.0 | 132.9 | 197.9 | 268.5 | 342.4 | 415.2 | 515.5 | 624.1 | 668.3 | 689.2 |
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| 27.5° | 35.3 | 39.1 | 45.2 | 55.7 | 125.7 | 310.4 | 588.3 | 886.0 | 941.2 | 978.1 |
| 30° | 30.9 | 34.2 | 40.2 | 47.4 | 87.1 | 265.2 | 610.9 | 939.0 | 1016.7 | 1028.3 |
| 32.5° | 27.6 | 30.3 | 34.7 | 40.8 | 64.5 | 201.2 | 629.1 | 993.6 | 1059.2 | 1084.5 |
| 35° | 23.7 | 27.0 | 29.8 | 34.7 | 49.1 | 151.6 | 618.1 | 1036.0 | 1121.5 | 1151.8 |
| 37.5° | 21.0 | 23.2 | 25.9 | 29.2 | 41.4 | 118.5 | 595.5 | 1086.7 | 1175.0 | 1203.1 |
| 40° | 17.6 | 19.3 | 22.6 | 25.9 | 37.5 | 91.5 | 569.6 | 1147.9 | 1249.9 | 1299.6 |
| 42.5° | 14.9 | 16.5 | 18.7 | 24.3 | 30.9 | 67.8 | 517.2 | 1195.4 | 1310.6 | 1352.5 |
| 45° | 11.6 | 13.8 | 17.1 | 24.3 | 24.8 | 50.2 | 463.1 | 1230.6 | 1344.8 | 1365.7 |
| 47.5° | 8.8 | 11.0 | 16.5 | 21.0 | 19.8 | 34.7 | 399.2 | 1270.9 | 1380.1 | 1399.4 |
| 50° | 6.6 | 8.8 | 18.7 | 18.2 | 16.5 | 26.5 | 358.9 | 1299.0 | 1382.3 | 1392.7 |
| 52.5° | 4.4 | 6.6 | 15.4 | 13.8 | 13.8 | 23.2 | 347.9 | 1297.9 | 1387.8 | 1365.2 |
| 55° | 3.3 | 5.0 | 8.8 | 9.9 | 12.1 | 20.4 | 338.0 | 1339.3 | 1389.4 | 1405.4 |
| 57.5° | 2.2 | 3.9 | 6.1 | 7.7 | 10.5 | 17.6 | 317.6 | 1388.9 | 1440.7 | 1449.0 |
| 60° | 1.1 | 2.8 | 4.4 | 6.1 | 8.8 | 15.4 | 288.9 | 1425.3 | 1503.0 | 1511.8 |
| 62.5° | 0.6 | 1.7 | 3.3 | 5.0 | 7.2 | 12.1 | 259.1 | 1367.4 | 1476.0 | 1491.4 |
| 65° | 0.0 | 1.1 | 2.2 | 3.3 | 4.4 | 8.8 | 210.6 | 1234.5 | 1369.0 | 1425.8 |
| 67.5° | 0.0 | 0.0 | 1.1 | 2.2 | 2.8 | 6.6 | 158.8 | 1123.1 | 1270.3 | 1347.5 |
| 70° | 0.0 | 0.0 | 0.6 | 0.6 | 1.7 | 5.0 | 101.5 | 930.2 | 1134.2 | 1176.6 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 3.3 | 59.0 | 690.9 | 888.8 | 967.6 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 29.8 | 444.4 | 618.6 | 724.5 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 16.0 | 286.7 | 456.0 | 544.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 9.4 | 166.5 | 291.7 | 353.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 81.6 | 174.2 | 204.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 43.6 | 87.1 | 114.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 6.1 | 11.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)