

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: P677344

Luminaire Tested: **CCW-SA-2B-835-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677344
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-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: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

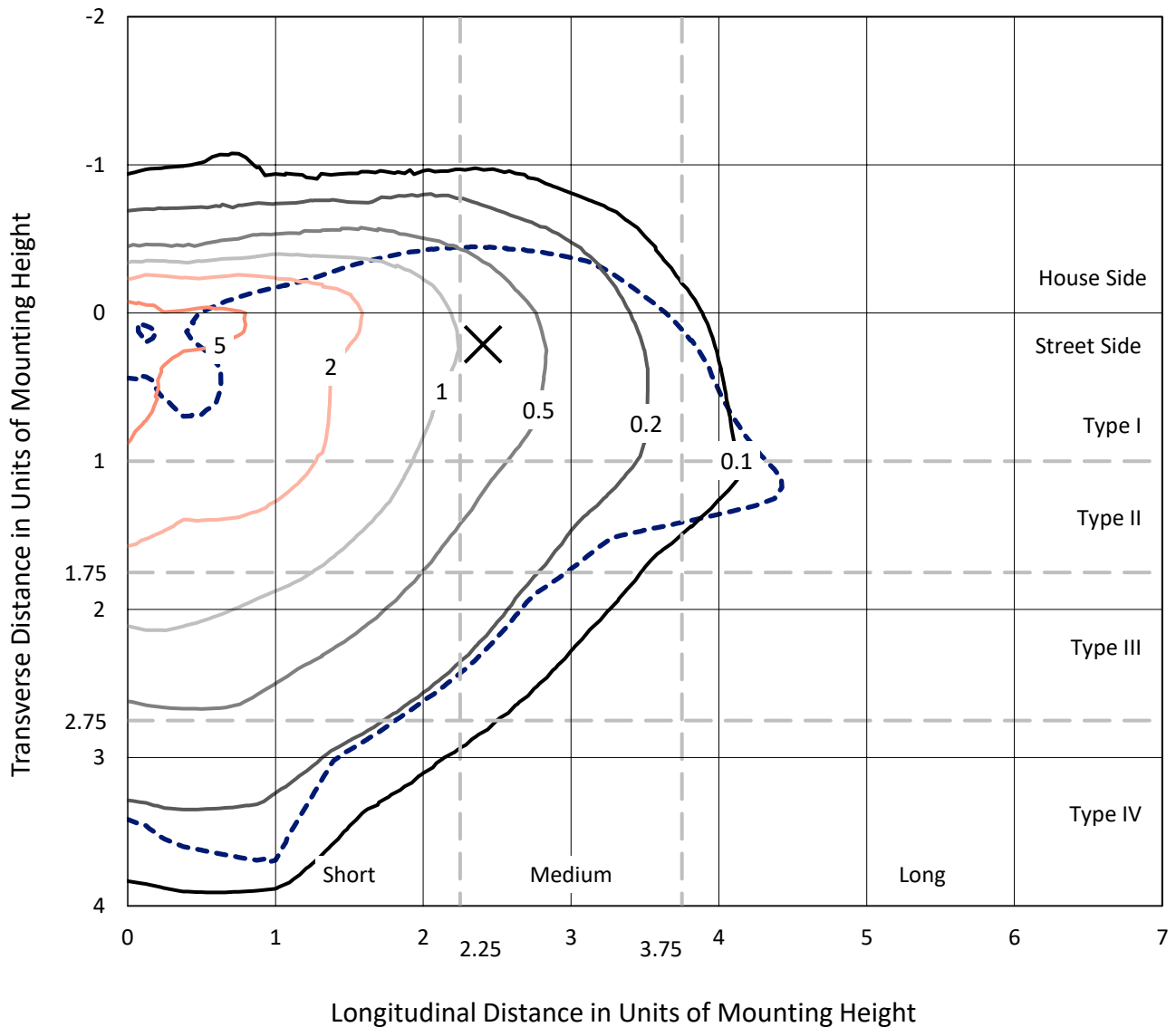
Lumens per Lamp: N/A
Luminaire Lumens: 4128.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

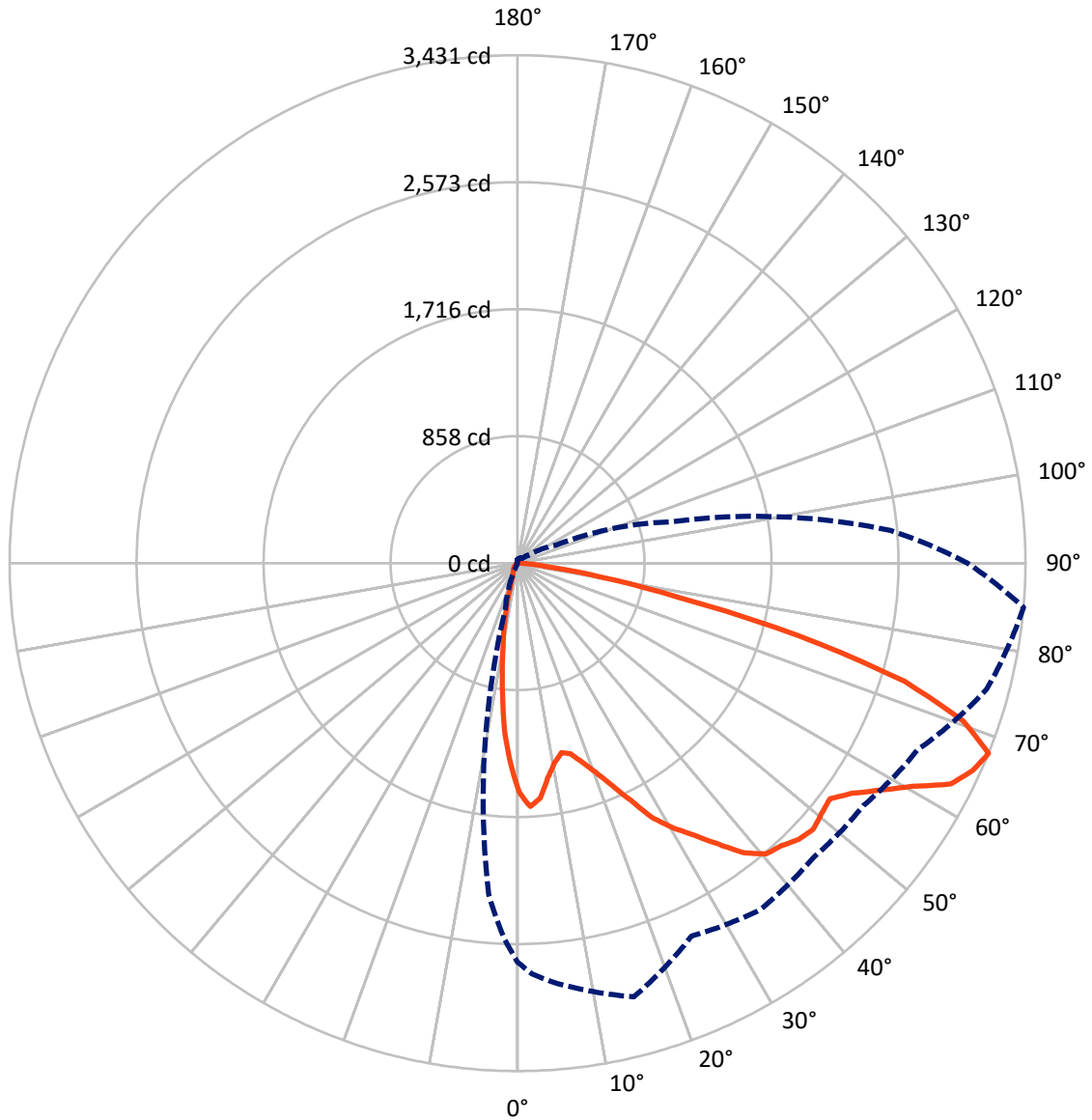
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 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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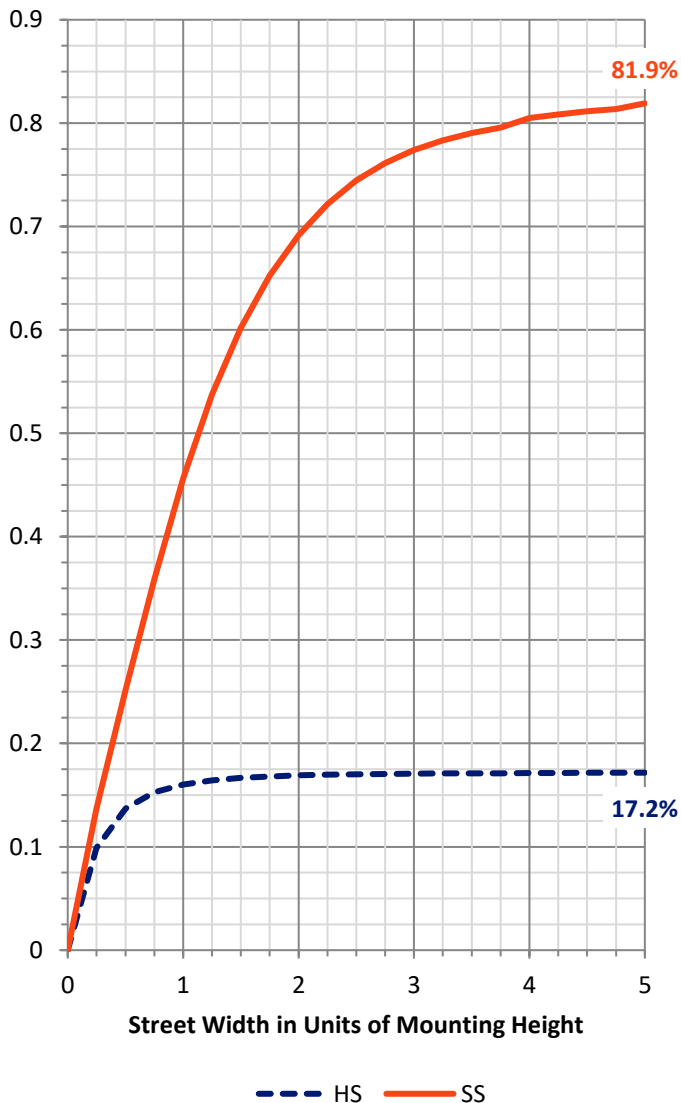
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 716.9 | 0.0 | 716.9 |
| | % Fixture | 17.4 | 0.0 | 17.4 |
| Street Side | Lumens | 3411.9 | 0.0 | 3411.9 |
| | % Fixture | 82.6 | 0.0 | 82.6 |
| Total | Lumens | 4128.8 | 0.0 | 4128.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.9 | 2.9 |
| 10°-20° | 231.3 | 5.6 |
| 20°-30° | 320.0 | 7.8 |
| 30°-40° | 452.3 | 11.0 |
| 40°-50° | 615.8 | 14.9 |
| 50°-60° | 815.6 | 19.8 |
| 60°-70° | 947.0 | 22.9 |
| 70°-80° | 536.3 | 13.0 |
| 80°-90° | 92.7 | 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° | 4128.8 | 100.0 |
| 0°-180° | 4128.8 | 100.0 |



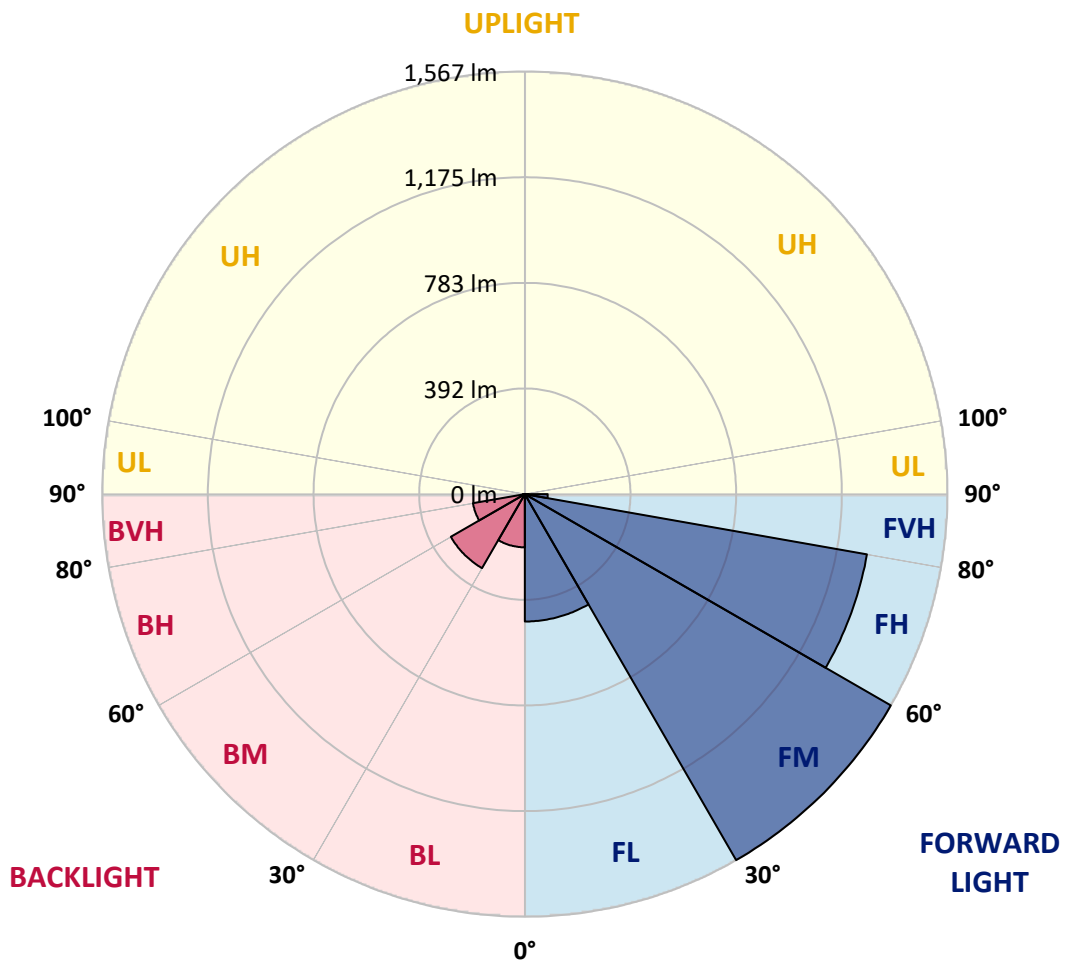
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 472.2 | 11.4 | | | |
| FM (30°-60°) | 1566.9 | 38.0 | | | |
| FH (60°-80°) | 1288.0 | 31.2 | | | G1/1800 |
| FVH (80°-90°) | 84.8 | 2.1 | | | G1/100 |
| BL (0°-30°) | 197.1 | 4.8 | B1/500 | | |
| BM (30°-60°) | 316.8 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 195.2 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.8 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 |
| 2.5° | 1613.1 | 1647.2 | 1648.3 | 1663.8 | 1679.2 | 1679.2 | 1715.6 | 1706.8 | 1674.8 | 1669.3 | 1646.1 |
| 5° | 1625.2 | 1637.3 | 1646.1 | 1724.4 | 1790.6 | 1784.0 | 1803.8 | 1790.6 | 1728.8 | 1649.4 | 1595.4 |
| 7.5° | 1520.4 | 1533.7 | 1569.0 | 1702.4 | 1791.7 | 1821.4 | 1858.9 | 1776.2 | 1711.2 | 1567.8 | 1464.2 |
| 10° | 1381.5 | 1406.9 | 1471.9 | 1624.1 | 1734.3 | 1829.2 | 1829.2 | 1763.0 | 1637.3 | 1497.3 | 1370.5 |
| 12.5° | 1304.3 | 1355.1 | 1390.3 | 1544.7 | 1688.0 | 1753.1 | 1750.9 | 1715.6 | 1634.0 | 1457.6 | 1314.3 |
| 15° | 1317.6 | 1331.9 | 1406.9 | 1527.1 | 1621.9 | 1618.6 | 1658.3 | 1647.2 | 1589.9 | 1492.9 | 1335.2 |
| 17.5° | 1378.2 | 1400.3 | 1465.3 | 1527.1 | 1572.3 | 1559.0 | 1557.9 | 1610.8 | 1614.2 | 1552.4 | 1413.5 |
| 20° | 1477.4 | 1542.5 | 1573.4 | 1592.1 | 1537.0 | 1480.7 | 1474.1 | 1548.0 | 1605.3 | 1628.5 | 1507.2 |
| 22.5° | 1636.2 | 1679.2 | 1742.1 | 1646.1 | 1502.8 | 1432.2 | 1419.0 | 1500.6 | 1616.4 | 1718.9 | 1628.5 |
| 25° | 1791.7 | 1824.7 | 1885.4 | 1761.9 | 1541.4 | 1422.3 | 1399.2 | 1469.7 | 1658.3 | 1844.6 | 1775.1 |
| 27.5° | 1956.0 | 1984.6 | 1991.2 | 1846.8 | 1562.3 | 1402.5 | 1374.9 | 1469.7 | 1693.5 | 1910.7 | 1950.4 |
| 30° | 2056.3 | 2090.5 | 2097.1 | 1921.8 | 1596.5 | 1419.0 | 1405.8 | 1476.3 | 1717.8 | 1967.0 | 2076.1 |
| 32.5° | 2168.7 | 2177.6 | 2172.1 | 1935.0 | 1634.0 | 1467.5 | 1412.4 | 1520.4 | 1745.4 | 2034.2 | 2190.8 |
| 35° | 2303.3 | 2318.7 | 2262.5 | 1995.6 | 1717.8 | 1498.4 | 1478.5 | 1574.5 | 1792.8 | 2065.1 | 2329.7 |
| 37.5° | 2405.8 | 2454.3 | 2327.5 | 2018.8 | 1734.3 | 1563.4 | 1566.7 | 1686.9 | 1825.9 | 2102.6 | 2483.0 |
| 40° | 2598.7 | 2517.2 | 2437.8 | 2098.2 | 1797.2 | 1673.7 | 1656.1 | 1802.7 | 1937.2 | 2126.9 | 2583.3 |
| 42.5° | 2704.6 | 2661.6 | 2480.8 | 2105.9 | 1894.2 | 1825.9 | 1830.3 | 1933.9 | 1995.6 | 2195.2 | 2610.9 |
| 45° | 2731.1 | 2685.9 | 2539.2 | 2111.4 | 1990.1 | 2005.6 | 2081.6 | 2101.5 | 2081.6 | 2240.4 | 2662.7 |
| 47.5° | 2798.3 | 2700.2 | 2532.6 | 2185.3 | 2145.6 | 2205.1 | 2302.2 | 2345.2 | 2198.5 | 2223.9 | 2687.0 |
| 50° | 2785.1 | 2728.9 | 2518.3 | 2216.2 | 2335.2 | 2492.9 | 2558.0 | 2540.3 | 2328.6 | 2189.7 | 2660.5 |
| 52.5° | 2730.0 | 2669.3 | 2562.4 | 2300.0 | 2512.7 | 2703.5 | 2793.9 | 2749.8 | 2444.4 | 2266.9 | 2642.9 |
| 55° | 2810.4 | 2764.1 | 2619.7 | 2413.5 | 2646.2 | 2888.7 | 2952.7 | 2919.6 | 2586.6 | 2338.5 | 2743.2 |
| 57.5° | 2897.5 | 2887.6 | 2775.2 | 2546.9 | 2803.8 | 3079.5 | 3079.5 | 3038.7 | 2710.1 | 2442.2 | 2892.0 |
| 60° | 3023.2 | 3045.3 | 2889.8 | 2635.1 | 2857.9 | 3068.4 | 3228.3 | 3180.9 | 2834.7 | 2624.1 | 3060.7 |
| 62.5° | 2982.4 | 3053.0 | 3037.6 | 2824.8 | 2919.6 | 3122.5 | 3209.6 | 3244.9 | 2989.1 | 2845.7 | 3285.6 |
| 65° | 2851.2 | 2926.2 | 3036.5 | 2949.4 | 2873.3 | 2991.3 | 3035.4 | 3142.3 | 3066.2 | 3054.1 | 3378.3 |
| 67.5° | 2694.7 | 2776.3 | 2844.6 | 3033.2 | 2779.6 | 2857.9 | 2819.3 | 2853.4 | 2982.4 | 3282.3 | 3431.2 |
| 70° | 2352.9 | 2431.2 | 2539.2 | 2846.8 | 2531.5 | 2460.9 | 2451.0 | 2434.5 | 2635.1 | 3200.8 | 3190.8 |
| 72.5° | 1935.0 | 1971.4 | 2150.0 | 2314.3 | 1873.3 | 1860.0 | 1875.5 | 1856.7 | 2089.4 | 2897.5 | 2733.3 |
| 75° | 1448.8 | 1485.2 | 1586.6 | 1777.3 | 1275.7 | 1199.6 | 1287.8 | 1374.9 | 1595.4 | 2249.2 | 1963.7 |
| 77.5° | 1089.3 | 1135.6 | 1199.6 | 1329.7 | 936.1 | 817.0 | 829.1 | 911.8 | 1153.3 | 1801.6 | 1100.4 |
| 80° | 706.7 | 701.2 | 824.7 | 915.1 | 704.5 | 726.6 | 695.7 | 756.4 | 835.7 | 963.6 | 562.3 |
| 82.5° | 407.9 | 413.5 | 465.3 | 524.8 | 490.6 | 561.2 | 404.6 | 675.9 | 596.5 | 392.5 | 209.5 |
| 85° | 229.3 | 239.3 | 286.7 | 363.8 | 307.6 | 206.2 | 168.7 | 335.2 | 374.9 | 161.0 | 101.4 |
| 87.5° | 23.2 | 19.8 | 38.6 | 137.8 | 83.8 | 34.2 | 50.7 | 80.5 | 90.4 | 60.6 | 29.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 |
| 2.5° | 1613.1 | 1613.1 | 1585.5 | 1539.2 | 1520.4 | 1487.4 | 1442.2 | 1456.5 | 1441.1 | 1384.8 | 1370.5 |
| 5° | 1546.9 | 1494.0 | 1436.6 | 1366.1 | 1325.3 | 1241.5 | 1215.0 | 1167.6 | 1175.3 | 1127.9 | 1130.1 |
| 7.5° | 1409.1 | 1367.2 | 1270.2 | 1177.5 | 1097.1 | 1024.3 | 921.7 | 883.2 | 845.7 | 826.9 | 849.0 |
| 10° | 1328.6 | 1250.3 | 1118.0 | 996.7 | 889.8 | 824.7 | 756.4 | 703.4 | 654.9 | 618.5 | 610.8 |
| 12.5° | 1270.2 | 1200.7 | 1040.8 | 893.1 | 809.3 | 756.4 | 693.5 | 620.7 | 573.3 | 510.5 | 491.7 |
| 15° | 1252.5 | 1167.6 | 998.9 | 852.3 | 770.7 | 683.6 | 611.9 | 540.3 | 478.5 | 412.4 | 389.2 |
| 17.5° | 1313.2 | 1215.0 | 997.8 | 819.2 | 704.5 | 610.8 | 511.6 | 431.1 | 368.3 | 307.6 | 293.3 |
| 20° | 1415.7 | 1265.7 | 1029.8 | 799.4 | 641.7 | 516.0 | 403.5 | 323.1 | 252.5 | 212.8 | 202.9 |
| 22.5° | 1532.6 | 1351.7 | 1033.1 | 746.4 | 578.8 | 421.2 | 294.4 | 212.8 | 173.1 | 154.4 | 148.8 |
| 25° | 1675.9 | 1489.6 | 1072.8 | 703.4 | 505.0 | 319.7 | 209.5 | 163.2 | 140.0 | 129.0 | 126.8 |
| 27.5° | 1793.9 | 1585.5 | 1115.8 | 658.2 | 432.2 | 237.1 | 164.3 | 133.4 | 121.3 | 110.3 | 109.2 |
| 30° | 1916.3 | 1695.7 | 1127.9 | 630.7 | 369.4 | 195.2 | 141.1 | 118.0 | 104.7 | 99.2 | 98.1 |
| 32.5° | 2023.2 | 1815.9 | 1166.5 | 585.5 | 309.8 | 172.0 | 127.9 | 105.8 | 97.0 | 88.2 | 87.1 |
| 35° | 2161.0 | 1885.4 | 1185.3 | 561.2 | 287.8 | 155.5 | 116.9 | 97.0 | 83.8 | 78.3 | 76.1 |
| 37.5° | 2308.8 | 1952.6 | 1197.4 | 542.5 | 269.0 | 145.5 | 110.3 | 91.5 | 79.4 | 71.7 | 69.5 |
| 40° | 2446.6 | 2047.5 | 1179.7 | 519.3 | 254.7 | 133.4 | 105.8 | 84.9 | 73.9 | 66.2 | 62.8 |
| 42.5° | 2552.4 | 2140.1 | 1174.2 | 497.3 | 239.3 | 129.0 | 100.3 | 81.6 | 69.5 | 60.6 | 59.5 |
| 45° | 2612.0 | 2202.9 | 1135.6 | 479.6 | 227.1 | 131.2 | 98.1 | 77.2 | 66.2 | 58.4 | 54.0 |
| 47.5° | 2597.6 | 2251.4 | 1145.6 | 474.1 | 210.6 | 122.4 | 97.0 | 73.9 | 60.6 | 54.0 | 50.7 |
| 50° | 2677.0 | 2349.6 | 1129.0 | 456.5 | 198.5 | 110.3 | 105.8 | 73.9 | 59.5 | 51.8 | 48.5 |
| 52.5° | 2690.3 | 2438.9 | 1164.3 | 424.5 | 179.7 | 101.4 | 104.7 | 72.8 | 57.3 | 49.6 | 45.2 |
| 55° | 2800.5 | 2542.5 | 1232.7 | 406.8 | 164.3 | 88.2 | 95.9 | 70.6 | 51.8 | 45.2 | 43.0 |
| 57.5° | 2950.5 | 2757.5 | 1276.8 | 390.3 | 143.3 | 77.2 | 80.5 | 69.5 | 47.4 | 41.9 | 38.6 |
| 60° | 3094.9 | 2843.5 | 1280.1 | 360.5 | 123.5 | 69.5 | 62.8 | 69.5 | 44.1 | 37.5 | 34.2 |
| 62.5° | 3203.0 | 2843.5 | 1258.0 | 335.2 | 108.1 | 61.7 | 55.1 | 66.2 | 39.7 | 33.1 | 30.9 |
| 65° | 3144.5 | 2767.4 | 1200.7 | 314.2 | 98.1 | 54.0 | 47.4 | 50.7 | 35.3 | 28.7 | 26.5 |
| 67.5° | 3039.8 | 2530.4 | 1073.9 | 288.9 | 97.0 | 47.4 | 40.8 | 37.5 | 30.9 | 25.4 | 23.2 |
| 70° | 2872.2 | 2210.6 | 894.2 | 260.2 | 94.8 | 43.0 | 36.4 | 32.0 | 27.6 | 22.1 | 19.8 |
| 72.5° | 2314.3 | 1825.9 | 734.3 | 243.7 | 92.6 | 37.5 | 30.9 | 27.6 | 23.2 | 18.7 | 16.5 |
| 75° | 1603.1 | 1166.5 | 565.6 | 208.4 | 90.4 | 34.2 | 28.7 | 24.3 | 19.8 | 15.4 | 14.3 |
| 77.5° | 961.4 | 779.5 | 364.9 | 156.6 | 59.5 | 27.6 | 24.3 | 18.7 | 16.5 | 13.2 | 12.1 |
| 80° | 449.8 | 368.3 | 147.7 | 60.6 | 28.7 | 19.8 | 16.5 | 14.3 | 13.2 | 11.0 | 9.9 |
| 82.5° | 176.4 | 155.5 | 71.7 | 35.3 | 23.2 | 15.4 | 13.2 | 12.1 | 11.0 | 8.8 | 7.7 |
| 85° | 94.8 | 83.8 | 34.2 | 24.3 | 16.5 | 11.0 | 11.0 | 9.9 | 8.8 | 7.7 | 6.6 |
| 87.5° | 20.9 | 15.4 | 14.3 | 14.3 | 12.1 | 8.8 | 8.8 | 7.7 | 6.6 | 5.5 | 4.4 |
| 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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 CATALOG NUMBER: CCW-SA-2B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 | 1552.4 |
| 2.5° | 1362.8 | 1379.3 | 1352.8 | 1369.4 | 1346.2 | 1363.9 | 1366.1 | 1349.5 | 1354.0 | 1376.0 | 1385.9 |
| 5° | 1161.0 | 1150.0 | 1125.7 | 1118.0 | 1119.1 | 1104.8 | 1110.3 | 1118.0 | 1130.1 | 1136.7 | 1156.6 |
| 7.5° | 836.8 | 862.2 | 861.1 | 879.8 | 881.0 | 878.7 | 863.3 | 830.2 | 841.3 | 832.4 | 843.5 |
| 10° | 598.7 | 609.7 | 630.7 | 642.8 | 664.8 | 652.7 | 617.4 | 604.2 | 597.6 | 596.5 | 607.5 |
| 12.5° | 478.5 | 452.1 | 449.8 | 454.3 | 465.3 | 450.9 | 433.3 | 417.9 | 425.6 | 441.0 | 453.2 |
| 15° | 370.5 | 348.4 | 319.7 | 315.3 | 317.5 | 310.9 | 292.2 | 272.3 | 277.8 | 293.3 | 302.1 |
| 17.5° | 284.5 | 259.1 | 239.3 | 226.0 | 221.6 | 198.5 | 170.9 | 154.4 | 149.9 | 148.8 | 156.6 |
| 20° | 191.8 | 187.4 | 184.1 | 167.6 | 167.6 | 134.5 | 111.4 | 99.2 | 99.2 | 101.4 | 102.5 |
| 22.5° | 143.3 | 137.8 | 138.9 | 135.6 | 126.8 | 100.3 | 88.2 | 84.9 | 84.9 | 87.1 | 87.1 |
| 25° | 124.6 | 116.9 | 114.7 | 113.6 | 104.7 | 86.0 | 77.2 | 73.9 | 73.9 | 76.1 | 76.1 |
| 27.5° | 105.8 | 103.6 | 100.3 | 95.9 | 88.2 | 73.9 | 68.4 | 65.1 | 66.2 | 67.3 | 66.2 |
| 30° | 97.0 | 91.5 | 87.1 | 87.1 | 78.3 | 66.2 | 61.7 | 59.5 | 57.3 | 59.5 | 60.6 |
| 32.5° | 86.0 | 82.7 | 80.5 | 77.2 | 67.3 | 58.4 | 54.0 | 51.8 | 50.7 | 50.7 | 51.8 |
| 35° | 73.9 | 73.9 | 71.7 | 67.3 | 58.4 | 52.9 | 47.4 | 45.2 | 44.1 | 45.2 | 45.2 |
| 37.5° | 66.2 | 62.8 | 63.9 | 59.5 | 51.8 | 46.3 | 40.8 | 38.6 | 38.6 | 37.5 | 38.6 |
| 40° | 61.7 | 56.2 | 52.9 | 50.7 | 46.3 | 39.7 | 35.3 | 33.1 | 32.0 | 32.0 | 32.0 |
| 42.5° | 55.1 | 50.7 | 44.1 | 43.0 | 41.9 | 34.2 | 28.7 | 27.6 | 26.5 | 25.4 | 25.4 |
| 45° | 51.8 | 45.2 | 39.7 | 34.2 | 34.2 | 28.7 | 24.3 | 22.1 | 20.9 | 19.8 | 20.9 |
| 47.5° | 47.4 | 40.8 | 34.2 | 28.7 | 27.6 | 23.2 | 18.7 | 16.5 | 15.4 | 15.4 | 15.4 |
| 50° | 45.2 | 36.4 | 29.8 | 24.3 | 20.9 | 18.7 | 14.3 | 12.1 | 11.0 | 11.0 | 11.0 |
| 52.5° | 41.9 | 34.2 | 26.5 | 20.9 | 16.5 | 14.3 | 11.0 | 8.8 | 7.7 | 7.7 | 7.7 |
| 55° | 37.5 | 30.9 | 23.2 | 17.6 | 14.3 | 11.0 | 7.7 | 5.5 | 4.4 | 4.4 | 4.4 |
| 57.5° | 35.3 | 27.6 | 19.8 | 15.4 | 11.0 | 7.7 | 4.4 | 3.3 | 3.3 | 2.2 | 3.3 |
| 60° | 32.0 | 24.3 | 16.5 | 12.1 | 8.8 | 5.5 | 3.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 62.5° | 27.6 | 20.9 | 14.3 | 9.9 | 6.6 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 23.2 | 16.5 | 11.0 | 7.7 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 19.8 | 14.3 | 8.8 | 5.5 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 17.6 | 12.1 | 6.6 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 14.3 | 9.9 | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 12.1 | 7.7 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 9.9 | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 7.7 | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.6 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.3 | 1.1 | 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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| 30° | 61.7 | 68.4 | 80.5 | 94.8 | 174.2 | 530.3 | 1221.6 | 1877.7 | 2033.1 | 2056.3 |
| 32.5° | 55.1 | 60.6 | 69.5 | 81.6 | 129.0 | 402.4 | 1258.0 | 1986.8 | 2118.0 | 2168.7 |
| 35° | 47.4 | 54.0 | 59.5 | 69.5 | 98.1 | 303.2 | 1236.0 | 2071.7 | 2242.6 | 2303.3 |
| 37.5° | 41.9 | 46.3 | 51.8 | 58.4 | 82.7 | 237.1 | 1190.8 | 2173.2 | 2349.6 | 2405.8 |
| 40° | 35.3 | 38.6 | 45.2 | 51.8 | 75.0 | 183.0 | 1139.0 | 2295.5 | 2499.5 | 2598.7 |
| 42.5° | 29.8 | 33.1 | 37.5 | 48.5 | 61.7 | 135.6 | 1034.2 | 2390.4 | 2620.8 | 2704.6 |
| 45° | 23.2 | 27.6 | 34.2 | 48.5 | 49.6 | 100.3 | 926.2 | 2460.9 | 2689.2 | 2731.1 |
| 47.5° | 17.6 | 22.1 | 33.1 | 41.9 | 39.7 | 69.5 | 798.3 | 2541.4 | 2759.7 | 2798.3 |
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| 55° | 6.6 | 9.9 | 17.6 | 19.8 | 24.3 | 40.8 | 675.9 | 2678.1 | 2778.5 | 2810.4 |
| 57.5° | 4.4 | 7.7 | 12.1 | 15.4 | 20.9 | 35.3 | 635.1 | 2777.4 | 2881.0 | 2897.5 |
| 60° | 2.2 | 5.5 | 8.8 | 12.1 | 17.6 | 30.9 | 577.7 | 2850.1 | 3005.6 | 3023.2 |
| 62.5° | 1.1 | 3.3 | 6.6 | 9.9 | 14.3 | 24.3 | 518.2 | 2734.4 | 2951.6 | 2982.4 |
| 65° | 0.0 | 2.2 | 4.4 | 6.6 | 8.8 | 17.6 | 421.2 | 2468.6 | 2737.7 | 2851.2 |
| 67.5° | 0.0 | 0.0 | 2.2 | 4.4 | 5.5 | 13.2 | 317.5 | 2245.9 | 2540.3 | 2694.7 |
| 70° | 0.0 | 0.0 | 1.1 | 1.1 | 3.3 | 9.9 | 202.9 | 1860.0 | 2268.0 | 2352.9 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 6.6 | 118.0 | 1381.5 | 1777.3 | 1935.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 59.5 | 888.7 | 1237.1 | 1448.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 32.0 | 573.3 | 911.8 | 1089.3 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 18.7 | 333.0 | 583.3 | 706.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 163.2 | 348.4 | 407.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 87.1 | 174.2 | 229.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 12.1 | 23.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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