

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: P675815

Luminaire Tested: **CCW-SA-2A-727-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675815
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SLL distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

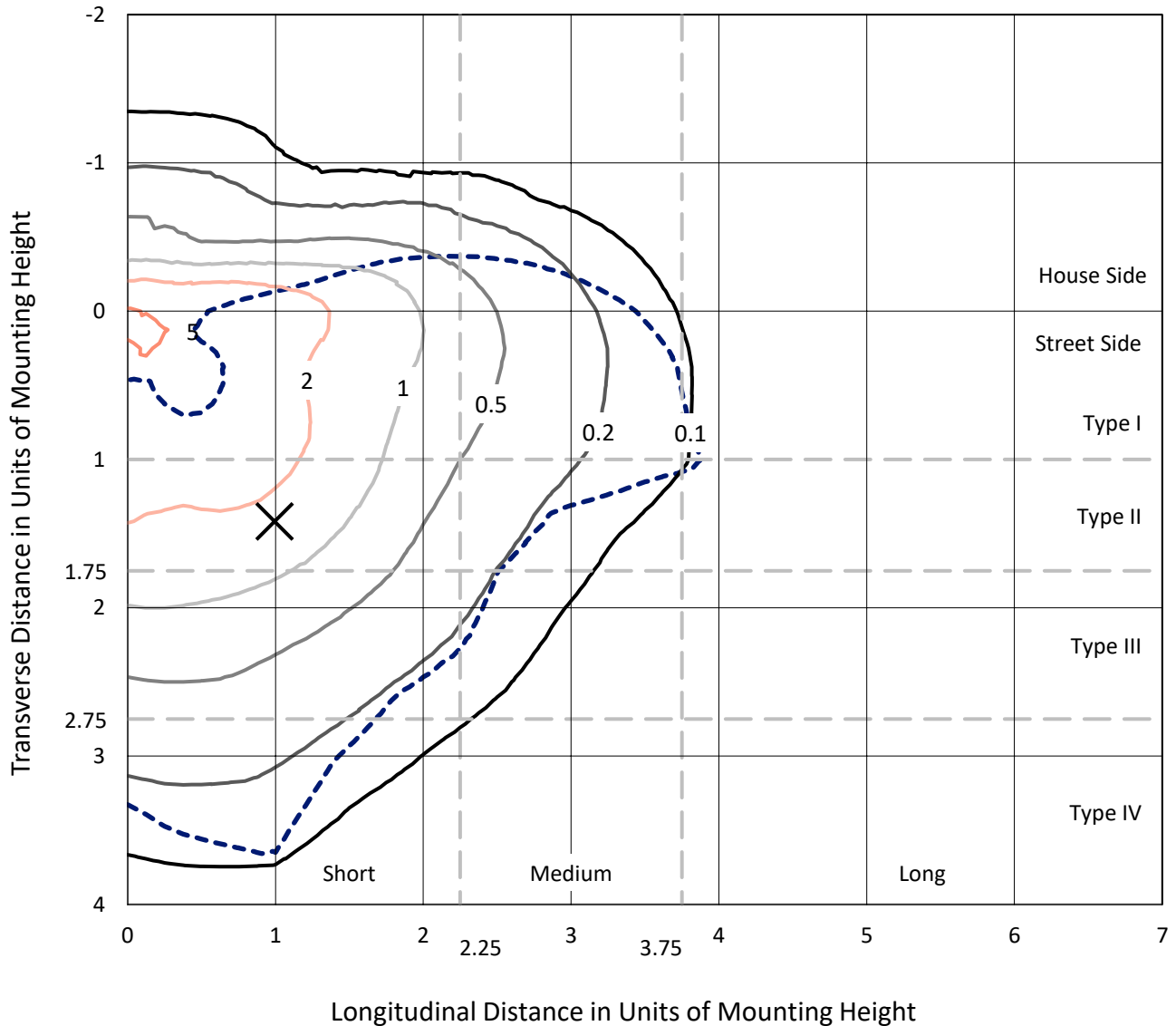
Lumens per Lamp: N/A
Luminaire Lumens: 3796.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

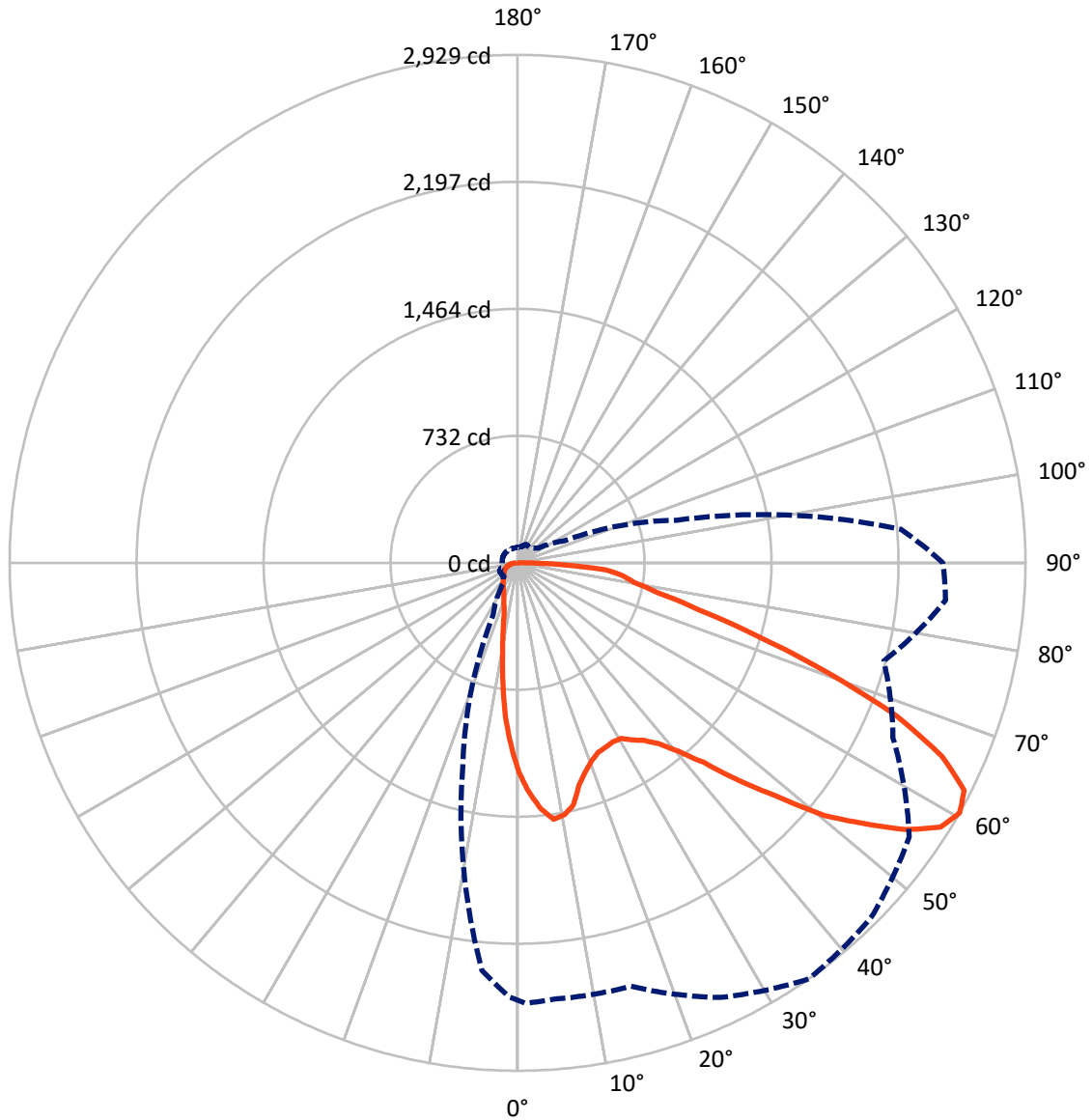
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 722.6 | 0.0 | 722.6 |
| | % Fixture | 19.0 | 0.0 | 19.0 |
| Street Side | Lumens | 3074.2 | 0.0 | 3074.2 |
| | % Fixture | 81.0 | 0.0 | 81.0 |
| Total | Lumens | 3796.8 | 0.0 | 3796.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.2 | 2.5 |
| 10°-20° | 198.9 | 5.2 |
| 20°-30° | 291.0 | 7.7 |
| 30°-40° | 410.0 | 10.8 |
| 40°-50° | 563.5 | 14.8 |
| 50°-60° | 768.0 | 20.2 |
| 60°-70° | 840.5 | 22.1 |
| 70°-80° | 485.3 | 12.8 |
| 80°-90° | 145.3 | 3.8 |
| 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° | 3796.8 | 100.0 |
| 0°-180° | 3796.8 | 100.0 |

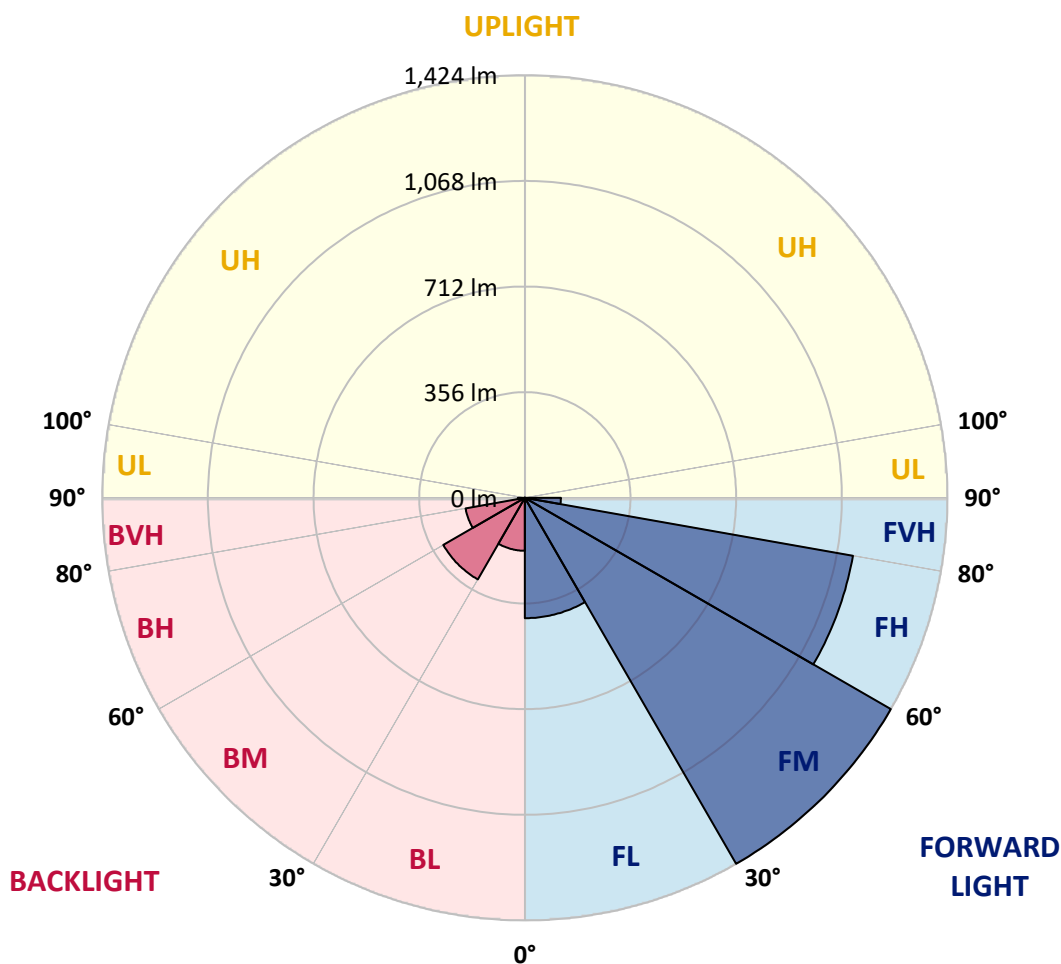


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 405.6 | 10.7 | | | |
| FM (30°-60°) | 1424.1 | 37.5 | | | |
| FH (60°-80°) | 1122.8 | 29.6 | | | G1/1800 |
| FVH (80°-90°) | 121.6 | 3.2 | | | G2/225 |
| BL (0°-30°) | 178.5 | 4.7 | B1/500 | | |
| BM (30°-60°) | 317.4 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 202.9 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 23.7 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 |
| 2.5° | 1298.6 | 1293.5 | 1298.6 | 1317.1 | 1322.1 | 1330.6 | 1330.6 | 1318.8 | 1296.9 | 1286.8 | 1269.9 |
| 5° | 1327.2 | 1318.8 | 1360.9 | 1399.6 | 1429.9 | 1426.6 | 1397.9 | 1374.4 | 1330.6 | 1264.9 | 1202.6 |
| 7.5° | 1269.9 | 1278.4 | 1308.7 | 1409.7 | 1480.5 | 1493.9 | 1448.5 | 1401.3 | 1307.0 | 1216.0 | 1131.8 |
| 10° | 1162.1 | 1173.9 | 1239.6 | 1344.0 | 1455.2 | 1477.1 | 1448.5 | 1391.2 | 1278.4 | 1165.5 | 1067.8 |
| 12.5° | 1109.9 | 1136.9 | 1175.6 | 1301.9 | 1381.1 | 1433.3 | 1419.8 | 1382.8 | 1256.5 | 1123.4 | 1029.1 |
| 15° | 1109.9 | 1116.7 | 1173.9 | 1280.0 | 1325.5 | 1327.2 | 1332.2 | 1339.0 | 1263.2 | 1141.9 | 1015.6 |
| 17.5° | 1145.3 | 1163.8 | 1212.7 | 1278.4 | 1286.8 | 1266.6 | 1266.6 | 1295.2 | 1276.7 | 1194.1 | 1064.5 |
| 20° | 1231.2 | 1224.5 | 1288.5 | 1315.4 | 1269.9 | 1219.4 | 1214.3 | 1263.2 | 1291.8 | 1249.7 | 1153.7 |
| 22.5° | 1317.1 | 1347.4 | 1399.6 | 1339.0 | 1254.8 | 1187.4 | 1180.7 | 1241.3 | 1337.3 | 1345.7 | 1256.5 |
| 25° | 1446.8 | 1477.1 | 1504.0 | 1429.9 | 1253.1 | 1179.0 | 1184.0 | 1231.2 | 1392.9 | 1482.1 | 1428.3 |
| 27.5° | 1586.6 | 1605.1 | 1643.8 | 1529.3 | 1293.5 | 1168.9 | 1173.9 | 1244.7 | 1445.1 | 1571.4 | 1563.0 |
| 30° | 1665.7 | 1685.9 | 1677.5 | 1547.8 | 1320.5 | 1175.6 | 1162.1 | 1263.2 | 1416.5 | 1571.4 | 1650.6 |
| 32.5° | 1743.2 | 1731.4 | 1726.4 | 1578.1 | 1354.1 | 1217.7 | 1184.0 | 1301.9 | 1433.3 | 1596.7 | 1763.4 |
| 35° | 1837.5 | 1820.7 | 1807.2 | 1637.1 | 1409.7 | 1258.1 | 1243.0 | 1352.5 | 1470.4 | 1648.9 | 1854.4 |
| 37.5° | 1941.9 | 1941.9 | 1876.3 | 1680.9 | 1475.4 | 1323.8 | 1307.0 | 1424.9 | 1529.3 | 1680.9 | 1979.0 |
| 40° | 2064.9 | 2070.0 | 1953.7 | 1739.8 | 1549.5 | 1428.3 | 1423.2 | 1519.2 | 1586.6 | 1728.0 | 2098.6 |
| 42.5° | 2155.8 | 2159.2 | 2021.1 | 1761.7 | 1635.4 | 1573.1 | 1595.0 | 1670.8 | 1652.3 | 1770.2 | 2107.0 |
| 45° | 2218.2 | 2201.3 | 2068.3 | 1824.1 | 1729.7 | 1790.4 | 1797.1 | 1819.0 | 1738.2 | 1795.4 | 2140.7 |
| 47.5° | 2248.5 | 2245.1 | 2088.5 | 1896.5 | 1928.5 | 2011.0 | 2049.7 | 2019.4 | 1817.3 | 1768.5 | 2140.7 |
| 50° | 2278.8 | 2250.2 | 2107.0 | 1995.8 | 2122.2 | 2288.9 | 2280.5 | 2224.9 | 1926.8 | 1802.2 | 2108.7 |
| 52.5° | 2299.0 | 2273.7 | 2144.1 | 2085.1 | 2307.4 | 2496.1 | 2529.8 | 2427.0 | 2054.8 | 1864.5 | 2123.8 |
| 55° | 2371.4 | 2351.2 | 2255.2 | 2206.4 | 2521.3 | 2715.0 | 2720.1 | 2576.9 | 2189.5 | 1967.2 | 2223.2 |
| 57.5° | 2459.0 | 2470.8 | 2408.5 | 2378.2 | 2684.7 | 2875.0 | 2856.5 | 2688.1 | 2304.1 | 2091.8 | 2337.7 |
| 60° | 2521.3 | 2539.9 | 2524.7 | 2528.1 | 2765.6 | 2928.9 | 2886.8 | 2757.1 | 2388.3 | 2186.2 | 2477.5 |
| 62.5° | 2487.6 | 2524.7 | 2587.0 | 2573.5 | 2768.9 | 2890.2 | 2831.2 | 2666.2 | 2398.4 | 2309.1 | 2583.7 |
| 65° | 2395.0 | 2398.4 | 2519.6 | 2593.8 | 2617.3 | 2689.8 | 2612.3 | 2475.9 | 2294.0 | 2384.9 | 2568.5 |
| 67.5° | 2157.5 | 2184.5 | 2294.0 | 2438.8 | 2339.4 | 2356.3 | 2349.5 | 2152.5 | 2135.6 | 2332.7 | 2452.3 |
| 70° | 1904.9 | 1923.4 | 2043.0 | 2213.1 | 1975.6 | 1896.5 | 1911.6 | 1765.1 | 1834.2 | 2171.0 | 2218.2 |
| 72.5° | 1574.8 | 1586.6 | 1723.0 | 1872.9 | 1584.9 | 1443.4 | 1478.8 | 1359.2 | 1456.9 | 1899.8 | 1871.2 |
| 75° | 1189.1 | 1211.0 | 1317.1 | 1493.9 | 1167.2 | 1076.2 | 1111.6 | 1062.8 | 1153.7 | 1564.7 | 1451.8 |
| 77.5° | 845.5 | 828.7 | 960.0 | 1168.9 | 877.5 | 823.6 | 827.0 | 835.4 | 933.1 | 1318.8 | 1042.6 |
| 80° | 576.0 | 581.1 | 699.0 | 857.3 | 688.9 | 680.4 | 672.0 | 739.4 | 783.2 | 1044.2 | 757.9 |
| 82.5° | 341.9 | 341.9 | 471.6 | 609.7 | 544.0 | 613.1 | 574.3 | 635.0 | 613.1 | 768.0 | 496.9 |
| 85° | 160.0 | 160.0 | 242.5 | 439.6 | 421.1 | 505.3 | 429.5 | 480.0 | 453.1 | 535.6 | 224.0 |
| 87.5° | 26.9 | 23.6 | 48.8 | 215.6 | 173.5 | 197.1 | 77.5 | 256.0 | 284.6 | 373.9 | 55.6 |
| 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° | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 |
| 2.5° | 1251.4 | 1239.6 | 1216.0 | 1185.7 | 1160.5 | 1128.5 | 1118.3 | 1096.5 | 1066.1 | 1062.8 | 1049.3 |
| 5° | 1179.0 | 1138.6 | 1088.0 | 1025.7 | 983.6 | 939.8 | 902.8 | 880.9 | 855.6 | 852.2 | 845.5 |
| 7.5° | 1099.8 | 1049.3 | 965.1 | 891.0 | 818.5 | 749.5 | 715.8 | 673.7 | 645.1 | 623.2 | 613.1 |
| 10° | 1025.7 | 978.6 | 874.1 | 773.1 | 709.1 | 663.6 | 623.2 | 579.4 | 544.0 | 517.1 | 507.0 |
| 12.5° | 976.9 | 921.3 | 808.4 | 712.4 | 665.3 | 613.1 | 567.6 | 520.4 | 475.0 | 439.6 | 421.1 |
| 15° | 955.0 | 902.8 | 788.2 | 682.1 | 613.1 | 540.6 | 488.4 | 441.3 | 385.7 | 360.4 | 352.0 |
| 17.5° | 1007.2 | 929.7 | 781.5 | 646.8 | 549.1 | 466.5 | 402.5 | 352.0 | 311.6 | 286.3 | 276.2 |
| 20° | 1074.6 | 978.6 | 793.3 | 604.6 | 488.4 | 395.8 | 325.1 | 271.2 | 244.2 | 225.7 | 224.0 |
| 22.5° | 1160.5 | 1051.0 | 811.8 | 574.3 | 421.1 | 318.3 | 254.3 | 222.3 | 203.8 | 202.1 | 198.7 |
| 25° | 1313.7 | 1182.3 | 842.1 | 533.9 | 367.2 | 262.7 | 217.3 | 198.7 | 190.3 | 185.3 | 188.6 |
| 27.5° | 1445.1 | 1268.2 | 864.0 | 508.6 | 345.3 | 247.6 | 210.5 | 190.3 | 181.9 | 180.2 | 181.9 |
| 30° | 1522.6 | 1347.4 | 857.3 | 461.5 | 301.5 | 235.8 | 224.0 | 217.3 | 200.4 | 187.0 | 187.0 |
| 32.5° | 1593.3 | 1397.9 | 855.6 | 419.4 | 257.7 | 197.1 | 187.0 | 181.9 | 192.0 | 198.7 | 193.7 |
| 35° | 1691.0 | 1477.1 | 850.5 | 395.8 | 239.2 | 181.9 | 165.1 | 151.6 | 144.8 | 141.5 | 146.5 |
| 37.5° | 1795.4 | 1531.0 | 837.1 | 392.4 | 229.1 | 173.5 | 160.0 | 146.5 | 139.8 | 136.4 | 134.7 |
| 40° | 1909.9 | 1588.3 | 821.9 | 375.6 | 224.0 | 168.4 | 155.0 | 143.2 | 134.7 | 129.7 | 128.0 |
| 42.5° | 1984.1 | 1633.7 | 806.8 | 367.2 | 213.9 | 165.1 | 149.9 | 139.8 | 131.4 | 124.6 | 124.6 |
| 45° | 2026.2 | 1687.6 | 791.6 | 358.7 | 202.1 | 166.7 | 149.9 | 136.4 | 126.3 | 123.0 | 119.6 |
| 47.5° | 2044.7 | 1728.0 | 786.5 | 345.3 | 192.0 | 160.0 | 146.5 | 133.1 | 123.0 | 116.2 | 114.5 |
| 50° | 2093.5 | 1813.9 | 805.1 | 335.2 | 180.2 | 153.3 | 155.0 | 131.4 | 121.3 | 112.8 | 111.2 |
| 52.5° | 2122.2 | 1883.0 | 845.5 | 320.0 | 171.8 | 144.8 | 151.6 | 128.0 | 116.2 | 107.8 | 107.8 |
| 55° | 2226.6 | 1997.5 | 889.3 | 308.2 | 161.7 | 133.1 | 139.8 | 121.3 | 107.8 | 102.7 | 102.7 |
| 57.5° | 2359.6 | 2118.8 | 926.3 | 303.2 | 155.0 | 124.6 | 124.6 | 117.9 | 102.7 | 96.0 | 94.3 |
| 60° | 2452.3 | 2218.2 | 948.2 | 299.8 | 148.2 | 116.2 | 111.2 | 117.9 | 97.7 | 90.9 | 89.3 |
| 62.5° | 2462.4 | 2160.9 | 926.3 | 298.1 | 146.5 | 107.8 | 101.1 | 112.8 | 92.6 | 85.9 | 82.5 |
| 65° | 2398.4 | 2044.7 | 865.7 | 291.4 | 144.8 | 99.4 | 94.3 | 97.7 | 85.9 | 80.8 | 77.5 |
| 67.5° | 2270.4 | 1856.1 | 778.1 | 288.0 | 143.2 | 92.6 | 85.9 | 84.2 | 79.2 | 74.1 | 70.7 |
| 70° | 1972.3 | 1610.1 | 675.4 | 272.8 | 139.8 | 87.6 | 77.5 | 75.8 | 70.7 | 67.4 | 65.7 |
| 72.5° | 1655.6 | 1317.1 | 557.5 | 252.6 | 133.1 | 79.2 | 70.7 | 67.4 | 65.7 | 60.6 | 58.9 |
| 75° | 1268.2 | 1013.9 | 446.3 | 224.0 | 116.2 | 70.7 | 62.3 | 58.9 | 57.3 | 53.9 | 52.2 |
| 77.5° | 891.0 | 754.5 | 330.1 | 181.9 | 97.7 | 64.0 | 55.6 | 52.2 | 50.5 | 45.5 | 45.5 |
| 80° | 604.6 | 528.9 | 224.0 | 126.3 | 75.8 | 52.2 | 48.8 | 45.5 | 42.1 | 38.7 | 38.7 |
| 82.5° | 375.6 | 370.5 | 161.7 | 82.5 | 55.6 | 42.1 | 38.7 | 38.7 | 33.7 | 30.3 | 30.3 |
| 85° | 171.8 | 227.4 | 112.8 | 57.3 | 42.1 | 32.0 | 32.0 | 30.3 | 26.9 | 21.9 | 21.9 |
| 87.5° | 53.9 | 75.8 | 58.9 | 25.3 | 23.6 | 18.5 | 18.5 | 16.8 | 16.8 | 13.5 | 13.5 |
| 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-2A-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 |
| 2.5° | 1062.8 | 1061.1 | 1061.1 | 1054.3 | 1071.2 | 1071.2 | 1081.3 | 1072.9 | 1077.9 | 1079.6 | 1093.1 |
| 5° | 843.8 | 857.3 | 867.4 | 887.6 | 899.4 | 904.4 | 904.4 | 917.9 | 912.9 | 923.0 | 943.2 |
| 7.5° | 618.1 | 635.0 | 665.3 | 690.5 | 710.8 | 717.5 | 715.8 | 719.2 | 724.2 | 712.4 | 715.8 |
| 10° | 500.2 | 488.4 | 498.5 | 522.1 | 540.6 | 562.5 | 545.7 | 544.0 | 549.1 | 544.0 | 554.1 |
| 12.5° | 417.7 | 404.2 | 395.8 | 395.8 | 409.3 | 419.4 | 414.3 | 422.7 | 441.3 | 446.3 | 458.1 |
| 15° | 338.5 | 326.7 | 320.0 | 311.6 | 325.1 | 328.4 | 333.5 | 345.3 | 358.7 | 365.5 | 379.0 |
| 17.5° | 271.2 | 271.2 | 271.2 | 264.4 | 269.5 | 274.5 | 276.2 | 291.4 | 293.1 | 299.8 | 304.9 |
| 20° | 222.3 | 227.4 | 235.8 | 239.2 | 244.2 | 244.2 | 240.8 | 249.3 | 242.5 | 247.6 | 251.0 |
| 22.5° | 200.4 | 207.2 | 210.5 | 212.2 | 219.0 | 220.6 | 212.2 | 213.9 | 215.6 | 210.5 | 212.2 |
| 25° | 188.6 | 192.0 | 188.6 | 190.3 | 192.0 | 188.6 | 190.3 | 193.7 | 192.0 | 195.4 | 193.7 |
| 27.5° | 183.6 | 180.2 | 178.5 | 176.8 | 176.8 | 173.5 | 175.2 | 175.2 | 178.5 | 180.2 | 180.2 |
| 30° | 183.6 | 178.5 | 171.8 | 166.7 | 166.7 | 161.7 | 165.1 | 168.4 | 170.1 | 173.5 | 173.5 |
| 32.5° | 188.6 | 178.5 | 166.7 | 161.7 | 156.6 | 153.3 | 156.6 | 161.7 | 168.4 | 170.1 | 171.8 |
| 35° | 149.9 | 155.0 | 153.3 | 146.5 | 144.8 | 144.8 | 143.2 | 143.2 | 138.1 | 138.1 | 136.4 |
| 37.5° | 134.7 | 133.1 | 136.4 | 138.1 | 139.8 | 134.7 | 134.7 | 128.0 | 126.3 | 128.0 | 128.0 |
| 40° | 126.3 | 126.3 | 126.3 | 131.4 | 133.1 | 129.7 | 124.6 | 121.3 | 121.3 | 121.3 | 123.0 |
| 42.5° | 123.0 | 119.6 | 117.9 | 121.3 | 126.3 | 123.0 | 117.9 | 116.2 | 116.2 | 117.9 | 117.9 |
| 45° | 117.9 | 116.2 | 114.5 | 112.8 | 119.6 | 114.5 | 112.8 | 111.2 | 111.2 | 111.2 | 112.8 |
| 47.5° | 112.8 | 111.2 | 107.8 | 107.8 | 109.5 | 107.8 | 106.1 | 106.1 | 106.1 | 109.5 | 109.5 |
| 50° | 109.5 | 107.8 | 104.4 | 104.4 | 104.4 | 104.4 | 102.7 | 102.7 | 102.7 | 104.4 | 106.1 |
| 52.5° | 104.4 | 102.7 | 101.1 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 101.1 | 102.7 |
| 55° | 99.4 | 97.7 | 96.0 | 96.0 | 97.7 | 97.7 | 96.0 | 97.7 | 96.0 | 97.7 | 99.4 |
| 57.5° | 94.3 | 92.6 | 90.9 | 92.6 | 94.3 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 94.3 |
| 60° | 87.6 | 87.6 | 87.6 | 87.6 | 90.9 | 90.9 | 90.9 | 90.9 | 87.6 | 89.3 | 90.9 |
| 62.5° | 84.2 | 82.5 | 82.5 | 84.2 | 85.9 | 85.9 | 87.6 | 85.9 | 84.2 | 85.9 | 85.9 |
| 65° | 77.5 | 77.5 | 77.5 | 79.2 | 79.2 | 80.8 | 80.8 | 80.8 | 79.2 | 80.8 | 80.8 |
| 67.5° | 72.4 | 72.4 | 72.4 | 72.4 | 75.8 | 75.8 | 75.8 | 75.8 | 74.1 | 74.1 | 75.8 |
| 70° | 64.0 | 65.7 | 64.0 | 67.4 | 70.7 | 69.1 | 70.7 | 70.7 | 69.1 | 67.4 | 70.7 |
| 72.5° | 58.9 | 58.9 | 58.9 | 58.9 | 64.0 | 64.0 | 64.0 | 65.7 | 64.0 | 62.3 | 64.0 |
| 75° | 52.2 | 52.2 | 52.2 | 53.9 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 55.6 | 55.6 |
| 77.5° | 45.5 | 47.2 | 45.5 | 47.2 | 50.5 | 48.8 | 50.5 | 52.2 | 50.5 | 48.8 | 48.8 |
| 80° | 38.7 | 38.7 | 38.7 | 40.4 | 42.1 | 42.1 | 42.1 | 43.8 | 42.1 | 40.4 | 40.4 |
| 82.5° | 30.3 | 30.3 | 32.0 | 32.0 | 33.7 | 33.7 | 33.7 | 35.4 | 33.7 | 32.0 | 32.0 |
| 85° | 23.6 | 23.6 | 23.6 | 25.3 | 25.3 | 26.9 | 26.9 | 28.6 | 28.6 | 26.9 | 26.9 |
| 87.5° | 15.2 | 13.5 | 15.2 | 15.2 | 16.8 | 16.8 | 15.2 | 13.5 | 15.2 | 13.5 | 11.8 |
| 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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| 0° | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 | 1212.7 |
| 2.5° | 1106.6 | 1136.9 | 1158.8 | 1173.9 | 1195.8 | 1237.9 | 1254.8 | 1285.1 | 1293.5 | 1298.6 |
| 5° | 951.6 | 983.6 | 1030.8 | 1064.5 | 1103.2 | 1182.3 | 1243.0 | 1288.5 | 1308.7 | 1327.2 |
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| 12.5° | 491.8 | 537.3 | 601.3 | 667.0 | 722.5 | 816.9 | 931.4 | 1056.0 | 1101.5 | 1109.9 |
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| 25° | 198.7 | 215.6 | 252.6 | 335.2 | 466.5 | 658.5 | 971.8 | 1325.5 | 1446.8 | 1446.8 |
| 27.5° | 185.3 | 192.0 | 217.3 | 291.4 | 431.2 | 643.4 | 1015.6 | 1450.1 | 1563.0 | 1586.6 |
| 30° | 181.9 | 198.7 | 212.2 | 259.4 | 392.4 | 601.3 | 1056.0 | 1547.8 | 1664.0 | 1665.7 |
| 32.5° | 178.5 | 175.2 | 185.3 | 225.7 | 345.3 | 557.5 | 1089.7 | 1647.2 | 1738.2 | 1743.2 |
| 35° | 139.8 | 146.5 | 163.4 | 198.7 | 309.9 | 525.5 | 1106.6 | 1701.1 | 1832.5 | 1837.5 |
| 37.5° | 131.4 | 139.8 | 153.3 | 183.6 | 286.3 | 498.5 | 1111.6 | 1805.5 | 1931.8 | 1941.9 |
| 40° | 128.0 | 134.7 | 144.8 | 170.1 | 267.8 | 464.9 | 1121.7 | 1913.3 | 2078.4 | 2064.9 |
| 42.5° | 121.3 | 129.7 | 139.8 | 163.4 | 252.6 | 439.6 | 1123.4 | 1972.3 | 2155.8 | 2155.8 |
| 45° | 119.6 | 124.6 | 136.4 | 163.4 | 235.8 | 417.7 | 1096.5 | 2031.2 | 2245.1 | 2218.2 |
| 47.5° | 112.8 | 123.0 | 133.1 | 158.3 | 215.6 | 395.8 | 1064.5 | 2061.5 | 2256.9 | 2248.5 |
| 50° | 111.2 | 121.3 | 138.1 | 149.9 | 203.8 | 385.7 | 1057.7 | 2137.3 | 2280.5 | 2278.8 |
| 52.5° | 107.8 | 117.9 | 143.2 | 143.2 | 188.6 | 372.2 | 1089.7 | 2171.0 | 2285.5 | 2299.0 |
| 55° | 102.7 | 117.9 | 133.1 | 131.4 | 175.2 | 355.4 | 1125.1 | 2258.6 | 2374.8 | 2371.4 |
| 57.5° | 99.4 | 114.5 | 126.3 | 119.6 | 160.0 | 343.6 | 1177.3 | 2342.8 | 2482.6 | 2459.0 |
| 60° | 94.3 | 114.5 | 112.8 | 111.2 | 148.2 | 333.5 | 1221.1 | 2359.6 | 2506.2 | 2521.3 |
| 62.5° | 90.9 | 119.6 | 99.4 | 102.7 | 138.1 | 328.4 | 1202.6 | 2233.3 | 2474.2 | 2487.6 |
| 65° | 87.6 | 102.7 | 90.9 | 94.3 | 134.7 | 318.3 | 1130.1 | 2081.7 | 2336.1 | 2395.0 |
| 67.5° | 80.8 | 84.2 | 84.2 | 87.6 | 131.4 | 294.7 | 981.9 | 1808.9 | 2125.5 | 2157.5 |
| 70° | 74.1 | 75.8 | 75.8 | 80.8 | 128.0 | 267.8 | 810.1 | 1564.7 | 1844.3 | 1904.9 |
| 72.5° | 67.4 | 67.4 | 67.4 | 74.1 | 117.9 | 245.9 | 667.0 | 1202.6 | 1532.7 | 1574.8 |
| 75° | 58.9 | 58.9 | 58.9 | 65.7 | 106.1 | 224.0 | 525.5 | 894.3 | 1128.5 | 1189.1 |
| 77.5° | 52.2 | 52.2 | 50.5 | 58.9 | 92.6 | 181.9 | 379.0 | 631.6 | 795.0 | 845.5 |
| 80° | 43.8 | 42.1 | 42.1 | 47.2 | 72.4 | 131.4 | 244.2 | 446.3 | 554.1 | 576.0 |
| 82.5° | 35.4 | 33.7 | 32.0 | 35.4 | 52.2 | 82.5 | 151.6 | 311.6 | 355.4 | 341.9 |
| 85° | 33.7 | 35.4 | 28.6 | 26.9 | 37.1 | 53.9 | 96.0 | 192.0 | 160.0 | 160.0 |
| 87.5° | 13.5 | 11.8 | 11.8 | 10.1 | 18.5 | 20.2 | 42.1 | 35.4 | 26.9 | 26.9 |
| 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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