

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: P677011

Luminaire Tested: **CCW-SA-2A-750-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677011  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-750-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

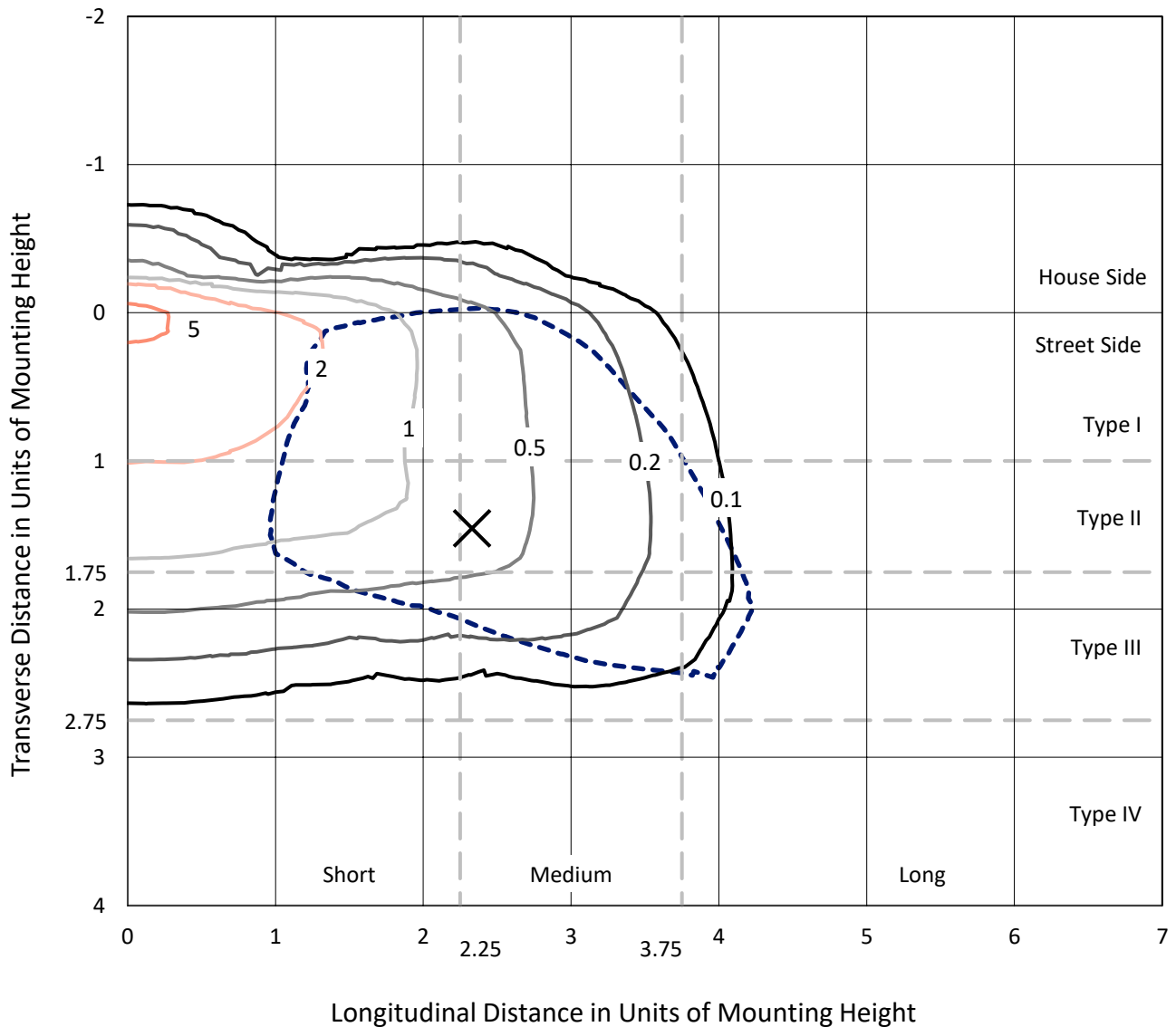
Lumens per Lamp: N/A  
Luminaire Lumens: 4625 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P677011  
 CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

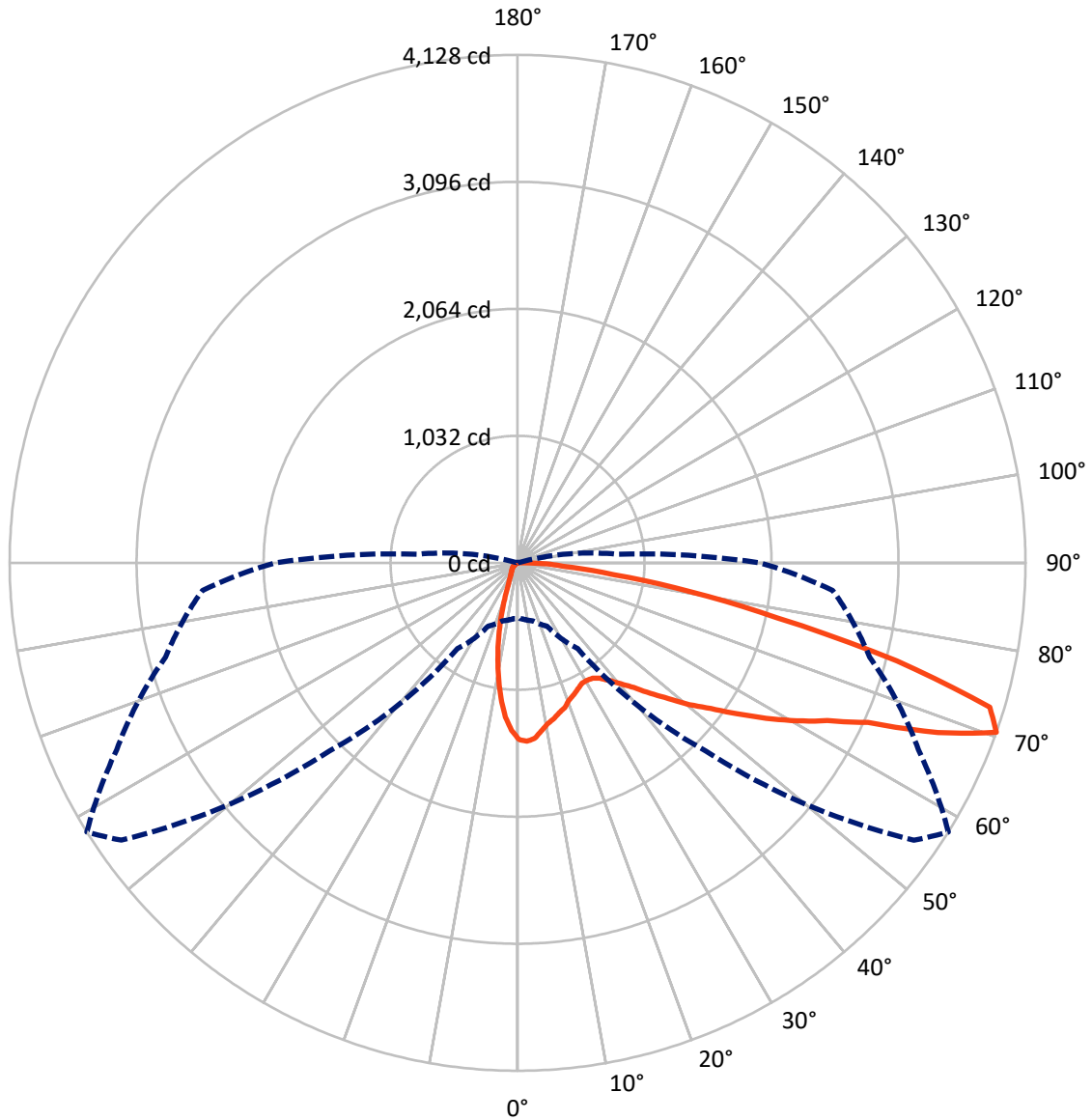
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677011  
CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P677011  
 CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

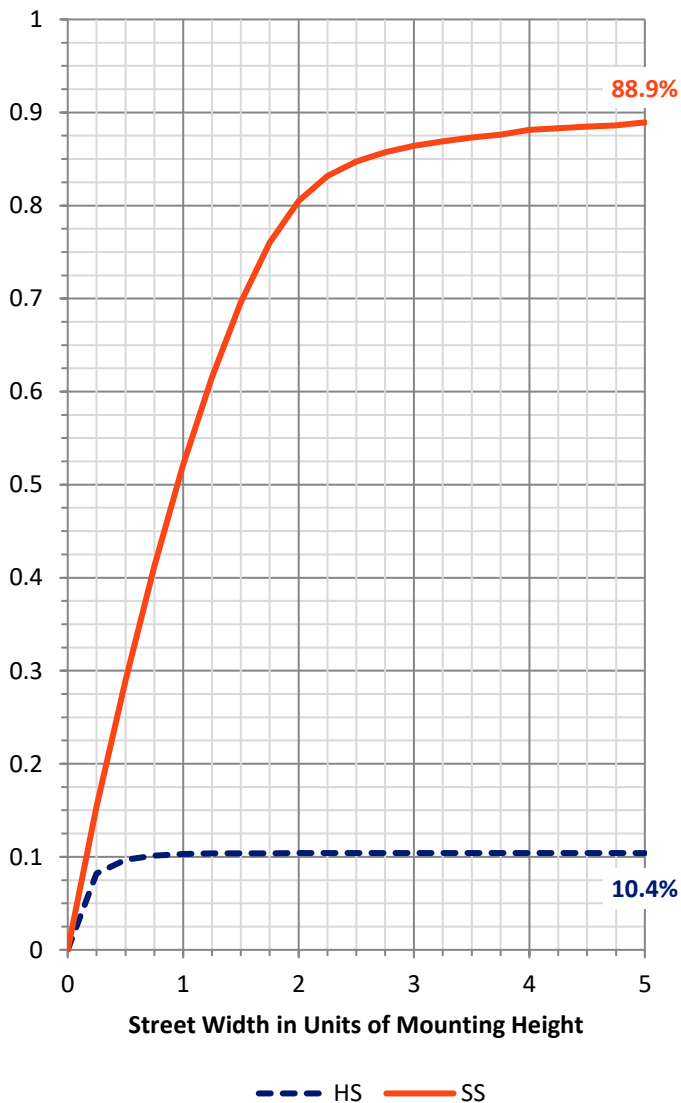
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 484.3    | 0.0    | 484.3  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 4140.7   | 0.0    | 4140.7 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 4625.0   | 0.0    | 4625.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.2  | 2.5       |
| 10°-20°   | 243.9  | 5.3       |
| 20°-30°   | 326.6  | 7.1       |
| 30°-40°   | 441.4  | 9.5       |
| 40°-50°   | 633.6  | 13.7      |
| 50°-60°   | 933.7  | 20.2      |
| 60°-70°   | 1138.8 | 24.6      |
| 70°-80°   | 695.4  | 15.0      |
| 80°-90°   | 94.5   | 2.0       |
| 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°    | 4625.0 | 100.0     |
| 0°-180°   | 4625.0 | 100.0     |

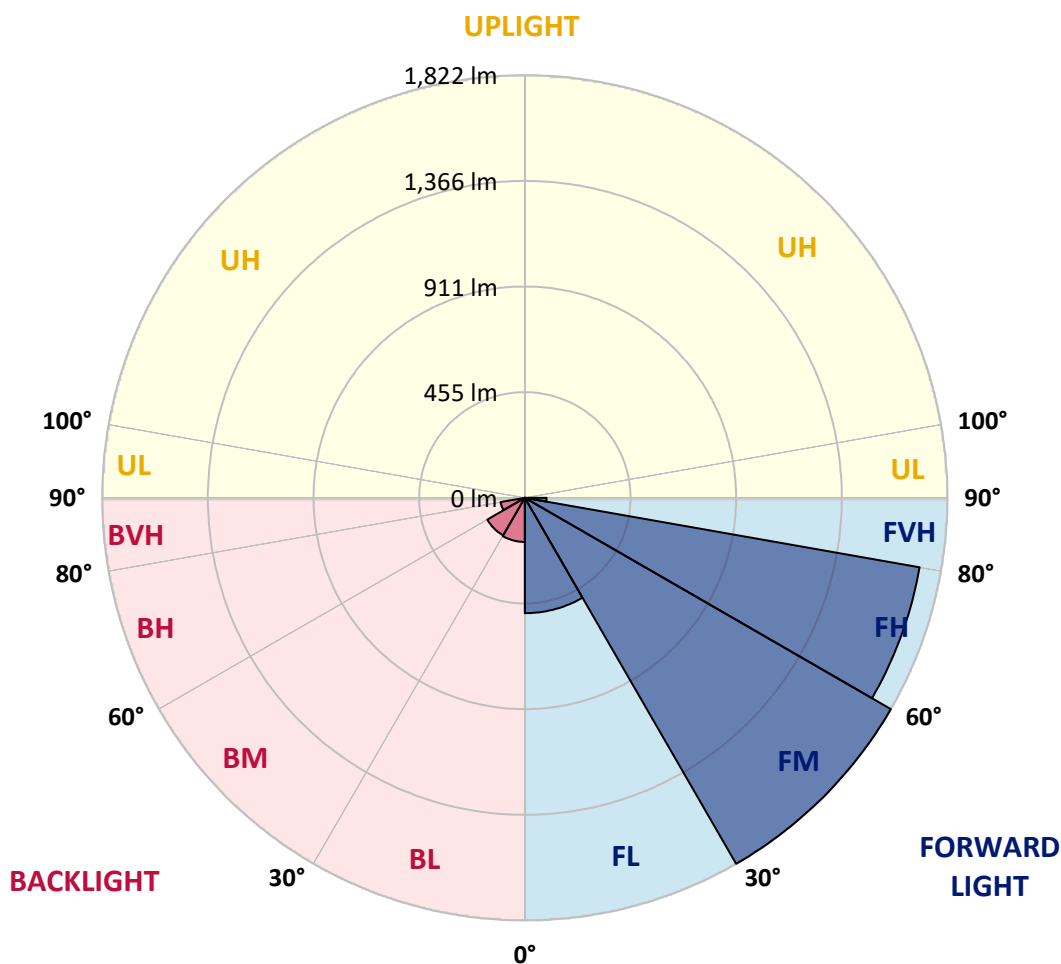


REPORT NUMBER: P677011  
 CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 497.3  | 10.8      |                         |      |         |
| FM (30°-60°)   | 1821.7 | 39.4      |                         |      |         |
| FH (60°-80°)   | 1728.1 | 37.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 93.6   | 2.0       |                         |      | G1/100  |
| BL (0°-30°)    | 190.3  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 186.9  | 4.0       | B0/220                  |      |         |
| BH (60°-80°)   | 106.1  | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.9    | 0.0       |                         |      | 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





REPORT NUMBER: P677011

CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 |
| 2.5°  | 1461.8 | 1467.2 | 1454.2 | 1469.4 | 1455.3 | 1461.8 | 1454.2 | 1452.0 | 1453.1 | 1454.2 | 1445.5 |
| 5°    | 1393.4 | 1406.5 | 1411.9 | 1403.2 | 1423.8 | 1420.6 | 1433.6 | 1434.7 | 1429.2 | 1423.8 | 1424.9 |
| 7.5°  | 1303.4 | 1316.5 | 1321.9 | 1327.3 | 1347.9 | 1375.0 | 1392.4 | 1381.5 | 1390.2 | 1409.7 | 1380.4 |
| 10°   | 1238.4 | 1235.1 | 1234.0 | 1244.9 | 1283.9 | 1306.7 | 1336.0 | 1332.7 | 1354.4 | 1372.8 | 1349.0 |
| 12.5° | 1158.1 | 1151.6 | 1171.1 | 1179.8 | 1214.5 | 1254.6 | 1277.4 | 1301.3 | 1323.0 | 1342.5 | 1315.4 |
| 15°   | 1098.5 | 1103.9 | 1111.5 | 1129.9 | 1154.9 | 1208.0 | 1241.6 | 1264.4 | 1303.4 | 1313.2 | 1302.4 |
| 17.5° | 1050.8 | 1055.1 | 1066.0 | 1075.7 | 1107.2 | 1158.1 | 1211.3 | 1238.4 | 1279.6 | 1305.6 | 1272.0 |
| 20°   | 1051.9 | 1038.9 | 1038.9 | 1048.6 | 1066.0 | 1126.7 | 1183.1 | 1191.8 | 1248.1 | 1292.6 | 1269.8 |
| 22.5° | 1052.9 | 1048.6 | 1038.9 | 1037.8 | 1045.4 | 1088.7 | 1146.2 | 1165.7 | 1226.5 | 1278.5 | 1251.4 |
| 25°   | 1068.1 | 1051.9 | 1052.9 | 1037.8 | 1041.0 | 1062.7 | 1108.3 | 1137.5 | 1206.9 | 1286.1 | 1241.6 |
| 27.5° | 1081.1 | 1088.7 | 1073.6 | 1067.0 | 1048.6 | 1047.5 | 1085.5 | 1110.4 | 1197.2 | 1303.4 | 1248.1 |
| 30°   | 1110.4 | 1115.8 | 1115.8 | 1111.5 | 1094.2 | 1069.2 | 1077.9 | 1109.3 | 1177.7 | 1300.2 | 1237.3 |
| 32.5° | 1159.2 | 1149.5 | 1162.5 | 1156.0 | 1133.2 | 1094.2 | 1101.7 | 1118.0 | 1189.6 | 1341.4 | 1254.6 |
| 35°   | 1175.5 | 1183.1 | 1200.4 | 1186.3 | 1178.7 | 1156.0 | 1140.8 | 1152.7 | 1206.9 | 1382.6 | 1280.7 |
| 37.5° | 1225.4 | 1214.5 | 1226.5 | 1257.9 | 1265.5 | 1224.3 | 1195.0 | 1212.4 | 1272.0 | 1431.4 | 1304.5 |
| 40°   | 1229.7 | 1238.4 | 1260.1 | 1321.9 | 1329.5 | 1312.1 | 1288.3 | 1292.6 | 1337.1 | 1494.3 | 1364.2 |
| 42.5° | 1251.4 | 1261.2 | 1305.6 | 1357.7 | 1398.9 | 1402.1 | 1384.8 | 1384.8 | 1422.7 | 1595.1 | 1430.3 |
| 45°   | 1293.7 | 1277.4 | 1334.9 | 1422.7 | 1482.4 | 1494.3 | 1517.1 | 1511.6 | 1542.0 | 1701.4 | 1553.9 |
| 47.5° | 1309.9 | 1315.4 | 1378.3 | 1484.5 | 1552.9 | 1608.2 | 1646.1 | 1647.2 | 1662.4 | 1837.0 | 1714.4 |
| 50°   | 1363.1 | 1362.0 | 1437.9 | 1536.6 | 1637.4 | 1738.3 | 1812.0 | 1812.0 | 1810.9 | 1969.3 | 1852.1 |
| 52.5° | 1433.6 | 1431.4 | 1490.0 | 1607.1 | 1738.3 | 1865.2 | 1962.8 | 1966.0 | 1991.0 | 2131.9 | 2010.5 |
| 55°   | 1548.5 | 1538.8 | 1595.1 | 1681.9 | 1839.1 | 1993.1 | 2162.3 | 2163.4 | 2143.9 | 2248.0 | 2124.3 |
| 57.5° | 1645.0 | 1643.9 | 1690.6 | 1774.1 | 1951.9 | 2157.9 | 2354.2 | 2383.5 | 2321.7 | 2367.2 | 2215.4 |
| 60°   | 1620.1 | 1634.2 | 1730.7 | 1854.3 | 2071.2 | 2364.0 | 2561.3 | 2606.9 | 2508.2 | 2448.6 | 2283.7 |
| 62.5° | 1465.0 | 1497.6 | 1602.7 | 1800.1 | 2172.0 | 2663.3 | 2846.5 | 2825.9 | 2605.8 | 2518.0 | 2367.2 |
| 65°   | 1054.0 | 1086.6 | 1216.7 | 1512.7 | 2054.9 | 2874.7 | 3221.7 | 3128.5 | 2779.3 | 2621.0 | 2478.9 |
| 67.5° | 620.3  | 633.3  | 714.6  | 965.1  | 1536.6 | 2759.8 | 3677.2 | 3684.8 | 3120.9 | 2779.3 | 2672.0 |
| 70°   | 447.9  | 457.6  | 489.1  | 569.3  | 851.3  | 2163.4 | 3930.9 | 4128.3 | 3594.8 | 2961.5 | 2570.0 |
| 72.5° | 343.8  | 343.8  | 396.9  | 473.9  | 542.2  | 1295.9 | 3617.5 | 4013.3 | 3697.8 | 2786.9 | 2071.2 |
| 75°   | 247.2  | 253.7  | 311.2  | 407.7  | 499.9  | 650.6  | 2665.4 | 3184.9 | 3133.9 | 2258.8 | 1446.6 |
| 77.5° | 142.1  | 145.3  | 219.0  | 341.6  | 469.5  | 446.8  | 1647.2 | 2159.0 | 2219.8 | 1414.1 | 626.8  |
| 80°   | 72.7   | 74.8   | 122.5  | 270.0  | 425.1  | 389.3  | 982.5  | 1421.6 | 1205.8 | 411.0  | 145.3  |
| 82.5° | 35.8   | 35.8   | 55.3   | 172.4  | 361.1  | 344.8  | 578.0  | 785.1  | 427.3  | 94.3   | 60.7   |
| 85°   | 11.9   | 13.0   | 24.9   | 97.6   | 261.3  | 208.2  | 353.5  | 373.0  | 143.1  | 35.8   | 33.6   |
| 87.5° | 3.3    | 4.3    | 6.5    | 35.8   | 113.9  | 136.6  | 210.4  | 238.6  | 58.6   | 14.1   | 16.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P677011

CATALOG NUMBER: CCW-SA-2A-750-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 | 1435.7 |
| 2.5°  | 1413.0 | 1405.4 | 1396.7 | 1375.0 | 1357.7 | 1334.9 | 1319.7 | 1307.8 | 1285.0 | 1289.3 | 1279.6 |
| 5°    | 1398.9 | 1384.8 | 1334.9 | 1287.2 | 1243.8 | 1177.7 | 1132.1 | 1102.8 | 1079.0 | 1055.1 | 1072.5 |
| 7.5°  | 1373.9 | 1340.3 | 1262.2 | 1173.3 | 1081.1 | 994.4  | 907.6  | 855.6  | 817.6  | 782.9  | 781.8  |
| 10°   | 1331.6 | 1277.4 | 1154.9 | 1038.9 | 896.8  | 782.9  | 672.3  | 585.6  | 529.2  | 488.0  | 486.9  |
| 12.5° | 1283.9 | 1227.5 | 1073.6 | 884.9  | 721.1  | 560.6  | 428.3  | 336.2  | 283.0  | 250.5  | 246.2  |
| 15°   | 1253.6 | 1171.1 | 971.6  | 748.2  | 545.5  | 365.4  | 237.5  | 180.0  | 159.4  | 151.8  | 151.8  |
| 17.5° | 1214.5 | 1120.2 | 870.8  | 606.2  | 378.5  | 211.5  | 154.0  | 138.8  | 137.7  | 135.5  | 133.4  |
| 20°   | 1198.3 | 1081.1 | 780.8  | 483.6  | 239.7  | 149.6  | 132.3  | 129.0  | 129.0  | 126.9  | 124.7  |
| 22.5° | 1154.9 | 1024.8 | 685.3  | 354.6  | 159.4  | 131.2  | 124.7  | 120.4  | 118.2  | 116.0  | 118.2  |
| 25°   | 1135.4 | 984.6  | 595.3  | 245.1  | 130.1  | 117.1  | 113.9  | 109.5  | 106.3  | 105.2  | 105.2  |
| 27.5° | 1122.3 | 944.5  | 507.5  | 170.3  | 114.9  | 107.4  | 100.8  | 97.6   | 93.3   | 88.9   | 88.9   |
| 30°   | 1112.6 | 913.1  | 422.9  | 125.8  | 103.0  | 95.4   | 90.0   | 82.4   | 77.0   | 72.7   | 72.7   |
| 32.5° | 1099.6 | 876.2  | 338.3  | 107.4  | 93.3   | 85.7   | 75.9   | 69.4   | 61.8   | 58.6   | 58.6   |
| 35°   | 1103.9 | 851.3  | 265.7  | 95.4   | 83.5   | 73.7   | 65.1   | 56.4   | 48.8   | 45.5   | 44.5   |
| 37.5° | 1112.6 | 832.8  | 201.7  | 85.7   | 74.8   | 64.0   | 54.2   | 44.5   | 40.1   | 35.8   | 35.8   |
| 40°   | 1149.5 | 827.4  | 148.6  | 79.2   | 68.3   | 56.4   | 45.5   | 36.9   | 32.5   | 29.3   | 28.2   |
| 42.5° | 1211.3 | 835.0  | 114.9  | 71.6   | 61.8   | 47.7   | 38.0   | 30.4   | 26.0   | 22.8   | 21.7   |
| 45°   | 1290.4 | 864.3  | 94.3   | 67.2   | 54.2   | 40.1   | 30.4   | 24.9   | 19.5   | 17.4   | 17.4   |
| 47.5° | 1405.4 | 909.8  | 82.4   | 61.8   | 47.7   | 33.6   | 26.0   | 19.5   | 15.2   | 13.0   | 13.0   |
| 50°   | 1535.5 | 961.9  | 72.7   | 55.3   | 41.2   | 28.2   | 20.6   | 15.2   | 10.8   | 9.8    | 9.8    |
| 52.5° | 1665.6 | 1028.0 | 67.2   | 51.0   | 35.8   | 22.8   | 16.3   | 10.8   | 7.6    | 6.5    | 6.5    |
| 55°   | 1802.3 | 1086.6 | 60.7   | 47.7   | 29.3   | 18.4   | 11.9   | 6.5    | 4.3    | 3.3    | 3.3    |
| 57.5° | 1897.7 | 1109.3 | 53.1   | 41.2   | 22.8   | 14.1   | 8.7    | 4.3    | 2.2    | 1.1    | 1.1    |
| 60°   | 1966.0 | 1112.6 | 45.5   | 33.6   | 17.4   | 10.8   | 5.4    | 2.2    | 1.1    | 0.0    | 0.0    |
| 62.5° | 2023.5 | 1119.1 | 39.0   | 26.0   | 13.0   | 7.6    | 3.3    | 1.1    | 0.0    | 0.0    | 0.0    |
| 65°   | 2137.3 | 1113.7 | 31.4   | 20.6   | 8.7    | 4.3    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2227.3 | 1059.5 | 24.9   | 14.1   | 5.4    | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 1970.3 | 807.9  | 19.5   | 9.8    | 3.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1547.4 | 538.9  | 13.0   | 5.4    | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1015.0 | 267.8  | 9.8    | 3.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 394.7  | 70.5   | 6.5    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 95.4   | 23.9   | 3.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 41.2   | 8.7    | 2.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 24.9   | 4.3    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.0   | 2.2    | 1.1    | 1.1    | 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    |

(END OF REPORT)