

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: P675690

Luminaire Tested: **CCW-SA-1D-735-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675690
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

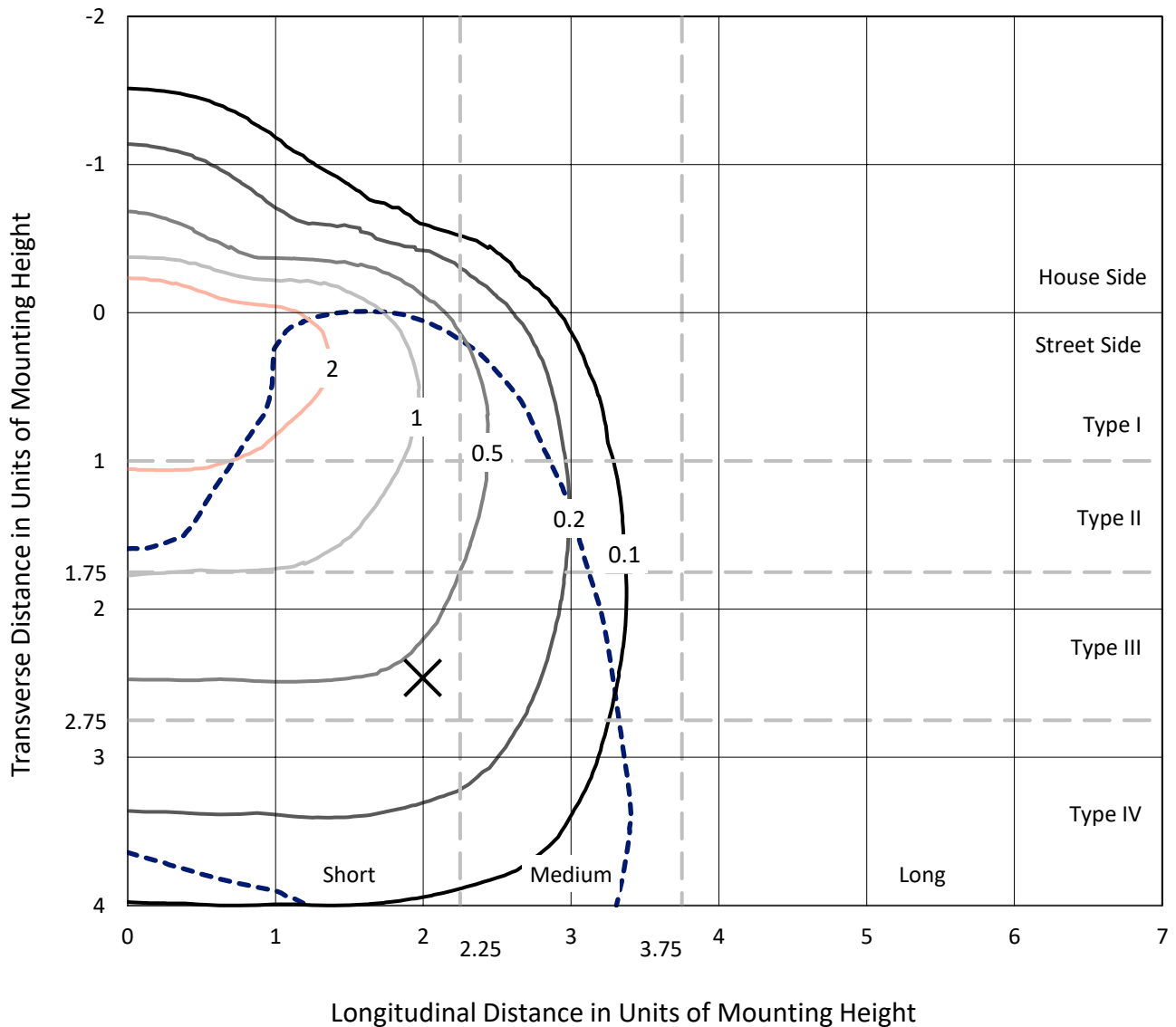
Lumens per Lamp: N/A
Luminaire Lumens: 5390 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

REPORT NUMBER: P675690
 CATALOG NUMBER: CCW-SA-1D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

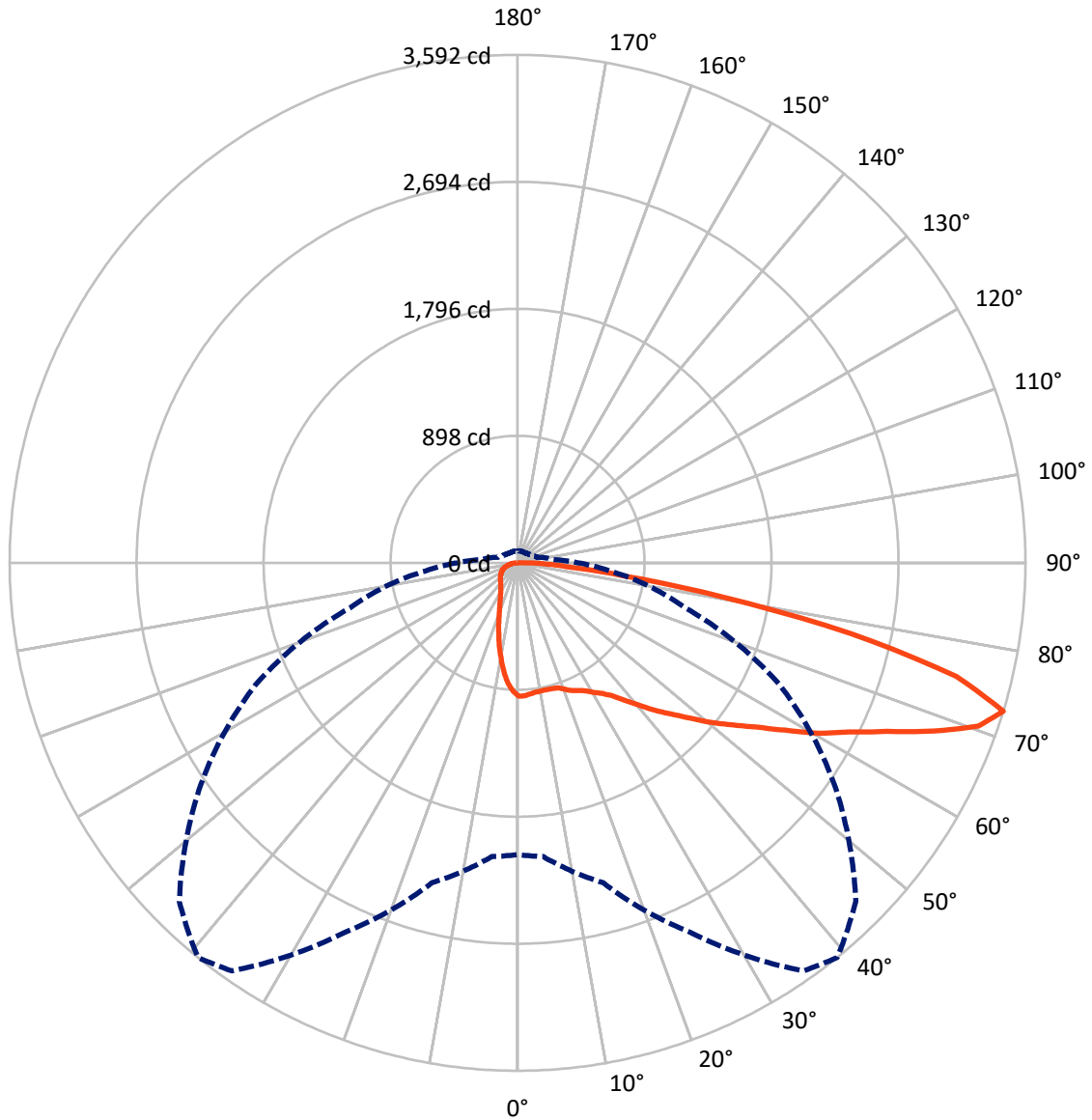
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P675690
CATALOG NUMBER: CCW-SA-1D-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P675690
 CATALOG NUMBER: CCW-SA-1D-735-U-SL4

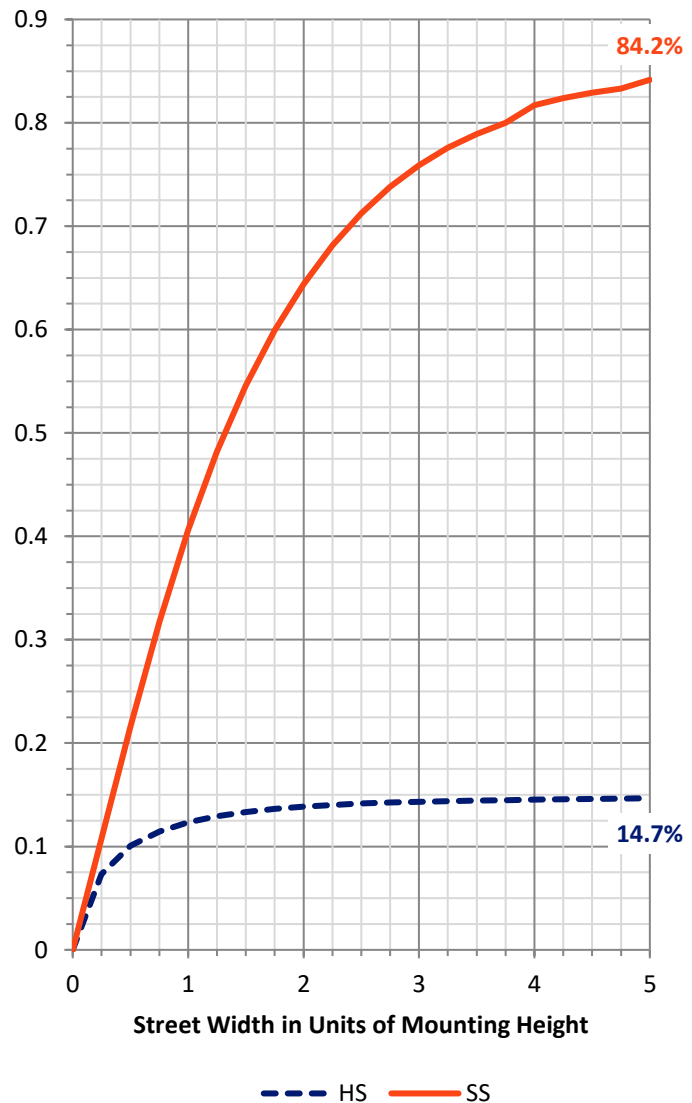
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 801.1 | 0.0 | 801.1 |
| | % Fixture | 14.9 | 0.0 | 14.9 |
| Street Side | Lumens | 4589.0 | 0.0 | 4589.0 |
| | % Fixture | 85.1 | 0.0 | 85.1 |
| Total | Lumens | 5390.0 | 0.0 | 5390.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.4 | 1.5 |
| 10°-20° | 212.8 | 3.9 |
| 20°-30° | 324.2 | 6.0 |
| 30°-40° | 474.2 | 8.8 |
| 40°-50° | 726.0 | 13.5 |
| 50°-60° | 1064.8 | 19.8 |
| 60°-70° | 1358.0 | 25.2 |
| 70°-80° | 981.2 | 18.2 |
| 80°-90° | 165.5 | 3.1 |
| 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° | 5390.0 | 100.0 |
| 0°-180° | 5390.0 | 100.0 |

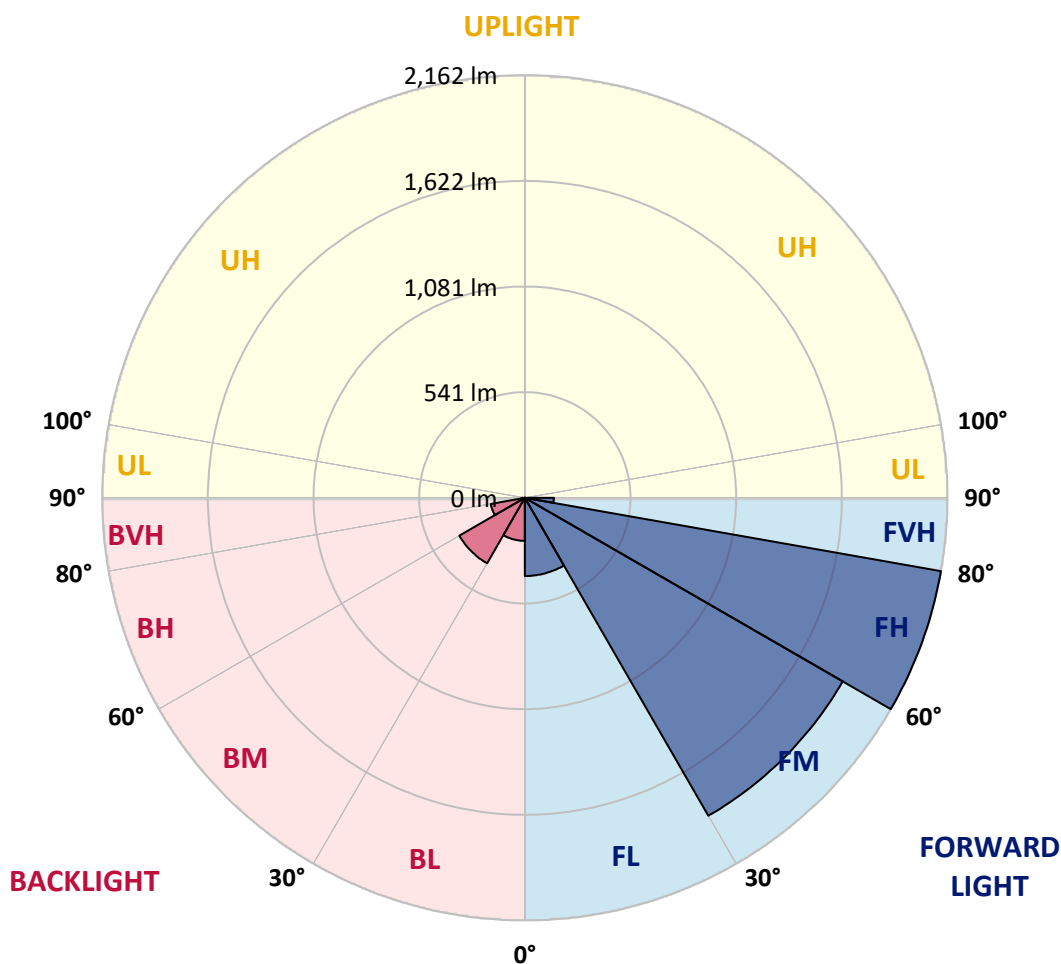


REPORT NUMBER: P675690
 CATALOG NUMBER: CCW-SA-1D-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 400.0 | 7.4 | | | |
| FM (30°-60°) | 1878.0 | 34.8 | | | |
| FH (60°-80°) | 2162.2 | 40.1 | | | G2/5000 |
| FVH (80°-90°) | 148.7 | 2.8 | | | G2/225 |
| BL (0°-30°) | 220.3 | 4.1 | B1/500 | | |
| BM (30°-60°) | 387.0 | 7.2 | B1/1000 | | |
| BH (60°-80°) | 177.0 | 3.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.8 | 0.3 | | | 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





REPORT NUMBER: P675690

CATALOG NUMBER: CCW-SA-1D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 |
| 2.5° | 957.7 | 959.7 | 955.6 | 951.6 | 949.6 | 941.5 | 949.6 | 945.5 | 941.5 | 941.5 | 941.5 |
| 5° | 945.5 | 947.5 | 947.5 | 943.5 | 945.5 | 931.3 | 929.3 | 931.3 | 925.3 | 921.2 | 919.2 |
| 7.5° | 927.3 | 931.3 | 939.4 | 937.4 | 929.3 | 923.2 | 925.3 | 923.2 | 913.1 | 907.1 | 890.9 |
| 10° | 913.1 | 917.2 | 921.2 | 925.3 | 923.2 | 921.2 | 919.2 | 911.1 | 909.1 | 894.9 | 878.7 |
| 12.5° | 899.0 | 899.0 | 901.0 | 917.2 | 919.2 | 919.2 | 907.1 | 907.1 | 901.0 | 899.0 | 874.7 |
| 15° | 884.8 | 890.9 | 907.1 | 911.1 | 919.2 | 923.2 | 917.2 | 917.2 | 907.1 | 892.9 | 874.7 |
| 17.5° | 888.8 | 899.0 | 915.2 | 925.3 | 929.3 | 929.3 | 937.4 | 931.3 | 917.2 | 909.1 | 890.9 |
| 20° | 909.1 | 911.1 | 931.3 | 949.6 | 953.6 | 953.6 | 945.5 | 939.4 | 929.3 | 915.2 | 890.9 |
| 22.5° | 921.2 | 935.4 | 959.7 | 969.8 | 982.0 | 982.0 | 971.8 | 957.7 | 943.5 | 929.3 | 903.0 |
| 25° | 973.9 | 975.9 | 986.0 | 1002.2 | 1008.3 | 1000.2 | 990.1 | 973.9 | 955.6 | 941.5 | 917.2 |
| 27.5° | 1010.3 | 1020.4 | 1032.6 | 1040.7 | 1030.6 | 1024.5 | 1016.4 | 998.2 | 984.0 | 971.8 | 937.4 |
| 30° | 1077.1 | 1065.0 | 1073.1 | 1077.1 | 1058.9 | 1063.0 | 1040.7 | 1024.5 | 1008.3 | 1008.3 | 969.8 |
| 32.5° | 1117.6 | 1127.7 | 1119.6 | 1117.6 | 1103.4 | 1101.4 | 1087.2 | 1069.0 | 1058.9 | 1071.1 | 1018.4 |
| 35° | 1188.5 | 1182.4 | 1182.4 | 1180.4 | 1164.2 | 1154.1 | 1154.1 | 1121.7 | 1131.8 | 1158.1 | 1093.3 |
| 37.5° | 1224.9 | 1222.9 | 1235.0 | 1245.2 | 1229.0 | 1235.0 | 1229.0 | 1214.8 | 1218.9 | 1265.4 | 1186.5 |
| 40° | 1261.4 | 1275.5 | 1299.8 | 1303.9 | 1314.0 | 1322.1 | 1318.1 | 1316.0 | 1332.2 | 1407.1 | 1312.0 |
| 42.5° | 1295.8 | 1307.9 | 1344.4 | 1376.8 | 1401.1 | 1427.4 | 1429.4 | 1429.4 | 1482.1 | 1589.4 | 1463.8 |
| 45° | 1340.3 | 1350.5 | 1401.1 | 1465.9 | 1506.4 | 1524.6 | 1540.8 | 1559.0 | 1629.9 | 1757.4 | 1625.8 |
| 47.5° | 1401.1 | 1409.2 | 1469.9 | 1550.9 | 1629.9 | 1640.0 | 1672.4 | 1692.6 | 1799.9 | 1929.5 | 1791.8 |
| 50° | 1488.1 | 1482.1 | 1530.7 | 1648.1 | 1725.0 | 1773.6 | 1820.2 | 1856.6 | 1961.9 | 2103.6 | 1921.4 |
| 52.5° | 1559.0 | 1559.0 | 1595.4 | 1751.3 | 1856.6 | 1903.2 | 1951.8 | 2002.4 | 2123.9 | 2277.8 | 2026.7 |
| 55° | 1680.5 | 1668.3 | 1690.6 | 1852.6 | 2004.4 | 2049.0 | 2142.1 | 2184.6 | 2302.0 | 2407.3 | 2115.8 |
| 57.5° | 1763.5 | 1769.6 | 1795.9 | 1986.2 | 2178.5 | 2233.2 | 2326.3 | 2356.7 | 2460.0 | 2543.0 | 2180.6 |
| 60° | 1872.8 | 1852.6 | 1909.3 | 2134.0 | 2370.9 | 2447.8 | 2524.8 | 2543.0 | 2619.9 | 2630.0 | 2210.9 |
| 62.5° | 1978.1 | 1974.1 | 2022.6 | 2281.8 | 2577.4 | 2632.1 | 2711.0 | 2731.3 | 2763.7 | 2698.9 | 2168.4 |
| 65° | 2042.9 | 2069.2 | 2160.3 | 2443.8 | 2812.3 | 2873.0 | 2952.0 | 2911.5 | 2875.0 | 2638.1 | 1959.9 |
| 67.5° | 2132.0 | 2144.1 | 2283.8 | 2619.9 | 3083.6 | 3174.7 | 3243.5 | 3083.6 | 2812.3 | 2389.1 | 1650.1 |
| 70° | 2152.2 | 2184.6 | 2366.8 | 2804.2 | 3363.0 | 3456.1 | 3460.2 | 3024.9 | 2583.5 | 1943.7 | 1196.6 |
| 72.5° | 2063.1 | 2085.4 | 2342.5 | 2881.1 | 3522.9 | 3591.8 | 3383.2 | 2735.3 | 2046.9 | 1224.9 | 651.9 |
| 75° | 1735.1 | 1797.9 | 2038.8 | 2644.2 | 3229.3 | 3203.0 | 2866.9 | 2087.4 | 1229.0 | 542.6 | 275.4 |
| 77.5° | 1208.7 | 1210.8 | 1461.8 | 1923.4 | 2417.5 | 2411.4 | 2044.9 | 1210.8 | 526.4 | 218.7 | 162.0 |
| 80° | 536.5 | 575.0 | 726.9 | 1036.6 | 1467.9 | 1467.9 | 1192.5 | 601.3 | 263.2 | 141.7 | 111.4 |
| 82.5° | 315.8 | 328.0 | 388.7 | 483.9 | 714.7 | 753.2 | 571.0 | 400.9 | 180.2 | 89.1 | 68.8 |
| 85° | 232.8 | 253.1 | 289.5 | 291.6 | 338.1 | 344.2 | 315.8 | 348.2 | 123.5 | 48.6 | 56.7 |
| 87.5° | 174.1 | 186.3 | 230.8 | 192.3 | 180.2 | 170.1 | 194.4 | 356.3 | 46.6 | 24.3 | 18.2 |
| 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: P675690
 CATALOG NUMBER: CCW-SA-1D-735-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 | 943.5 |
| 2.5° | 933.4 | 933.4 | 929.3 | 921.2 | 921.2 | 905.0 | 909.1 | 913.1 | 903.0 | 903.0 | 905.0 |
| 5° | 919.2 | 911.1 | 901.0 | 888.8 | 880.7 | 858.5 | 854.4 | 840.2 | 838.2 | 834.2 | 828.1 |
| 7.5° | 890.9 | 878.7 | 860.5 | 842.3 | 815.9 | 795.7 | 771.4 | 751.2 | 743.1 | 737.0 | 735.0 |
| 10° | 864.5 | 862.5 | 832.1 | 795.7 | 755.2 | 716.7 | 680.3 | 654.0 | 637.8 | 627.6 | 625.6 |
| 12.5° | 864.5 | 848.3 | 805.8 | 755.2 | 696.5 | 639.8 | 593.2 | 556.8 | 534.5 | 518.3 | 512.2 |
| 15° | 860.5 | 844.3 | 787.6 | 710.7 | 643.8 | 566.9 | 502.1 | 463.6 | 431.3 | 415.1 | 417.1 |
| 17.5° | 864.5 | 840.2 | 761.3 | 678.3 | 585.1 | 502.1 | 425.2 | 378.6 | 346.2 | 334.1 | 332.0 |
| 20° | 866.6 | 836.2 | 741.0 | 633.7 | 524.4 | 431.3 | 358.4 | 313.8 | 289.5 | 281.4 | 281.4 |
| 22.5° | 862.5 | 824.0 | 710.7 | 581.1 | 471.7 | 372.5 | 311.8 | 273.3 | 257.1 | 247.0 | 251.1 |
| 25° | 880.7 | 822.0 | 682.3 | 536.5 | 411.0 | 323.9 | 277.4 | 249.0 | 238.9 | 232.8 | 234.9 |
| 27.5° | 884.8 | 822.0 | 660.0 | 485.9 | 358.4 | 287.5 | 251.1 | 232.8 | 224.7 | 220.7 | 218.7 |
| 30° | 901.0 | 826.1 | 633.7 | 435.3 | 315.8 | 259.2 | 230.8 | 220.7 | 214.6 | 212.6 | 212.6 |
| 32.5° | 945.5 | 838.2 | 605.4 | 392.8 | 279.4 | 234.9 | 216.6 | 208.5 | 204.5 | 202.5 | 204.5 |
| 35° | 998.2 | 870.6 | 575.0 | 348.2 | 253.1 | 218.7 | 204.5 | 198.4 | 196.4 | 196.4 | 196.4 |
| 37.5° | 1079.1 | 919.2 | 548.7 | 311.8 | 230.8 | 202.5 | 192.3 | 190.3 | 188.3 | 190.3 | 190.3 |
| 40° | 1172.3 | 971.8 | 524.4 | 283.5 | 214.6 | 192.3 | 182.2 | 182.2 | 180.2 | 182.2 | 184.2 |
| 42.5° | 1279.6 | 1036.6 | 500.1 | 255.1 | 200.4 | 184.2 | 176.1 | 174.1 | 172.1 | 176.1 | 178.2 |
| 45° | 1427.4 | 1125.7 | 483.9 | 238.9 | 190.3 | 176.1 | 168.0 | 168.0 | 166.0 | 166.0 | 170.1 |
| 47.5° | 1550.9 | 1210.8 | 483.9 | 222.7 | 184.2 | 170.1 | 162.0 | 162.0 | 157.9 | 159.9 | 159.9 |
| 50° | 1654.2 | 1283.6 | 494.0 | 218.7 | 176.1 | 164.0 | 157.9 | 153.9 | 151.9 | 151.9 | 151.9 |
| 52.5° | 1723.0 | 1328.2 | 502.1 | 214.6 | 172.1 | 155.9 | 151.9 | 149.8 | 145.8 | 143.8 | 145.8 |
| 55° | 1791.8 | 1358.6 | 504.1 | 214.6 | 166.0 | 147.8 | 143.8 | 143.8 | 139.7 | 137.7 | 137.7 |
| 57.5° | 1818.2 | 1346.4 | 475.8 | 210.6 | 162.0 | 141.7 | 137.7 | 135.7 | 133.6 | 131.6 | 131.6 |
| 60° | 1806.0 | 1301.9 | 413.0 | 200.4 | 157.9 | 137.7 | 129.6 | 129.6 | 129.6 | 125.5 | 127.6 |
| 62.5° | 1723.0 | 1150.0 | 332.0 | 184.2 | 151.9 | 129.6 | 121.5 | 125.5 | 125.5 | 123.5 | 123.5 |
| 65° | 1504.3 | 949.6 | 269.3 | 170.1 | 143.8 | 123.5 | 115.4 | 121.5 | 123.5 | 121.5 | 119.5 |
| 67.5° | 1202.7 | 730.9 | 222.7 | 153.9 | 133.6 | 113.4 | 107.3 | 113.4 | 115.4 | 113.4 | 113.4 |
| 70° | 826.1 | 471.7 | 180.2 | 137.7 | 119.5 | 103.3 | 97.2 | 101.2 | 101.2 | 103.3 | 103.3 |
| 72.5° | 427.2 | 255.1 | 147.8 | 117.4 | 103.3 | 93.1 | 87.1 | 87.1 | 85.0 | 85.0 | 85.0 |
| 75° | 212.6 | 174.1 | 123.5 | 99.2 | 87.1 | 79.0 | 74.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 77.5° | 147.8 | 133.6 | 101.2 | 79.0 | 70.9 | 64.8 | 64.8 | 58.7 | 58.7 | 58.7 | 58.7 |
| 80° | 111.4 | 105.3 | 76.9 | 60.7 | 54.7 | 50.6 | 50.6 | 48.6 | 48.6 | 46.6 | 46.6 |
| 82.5° | 79.0 | 85.0 | 58.7 | 44.5 | 40.5 | 38.5 | 38.5 | 36.4 | 36.4 | 32.4 | 32.4 |
| 85° | 62.8 | 70.9 | 44.5 | 32.4 | 30.4 | 26.3 | 26.3 | 24.3 | 24.3 | 22.3 | 20.2 |
| 87.5° | 18.2 | 38.5 | 18.2 | 12.1 | 12.1 | 12.1 | 12.1 | 10.1 | 10.1 | 8.1 | 8.1 |
| 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)