

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: P673975

Luminaire Tested: **CCP-SA-1E-735-U-SL4-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673975
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-735-U-SL4-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

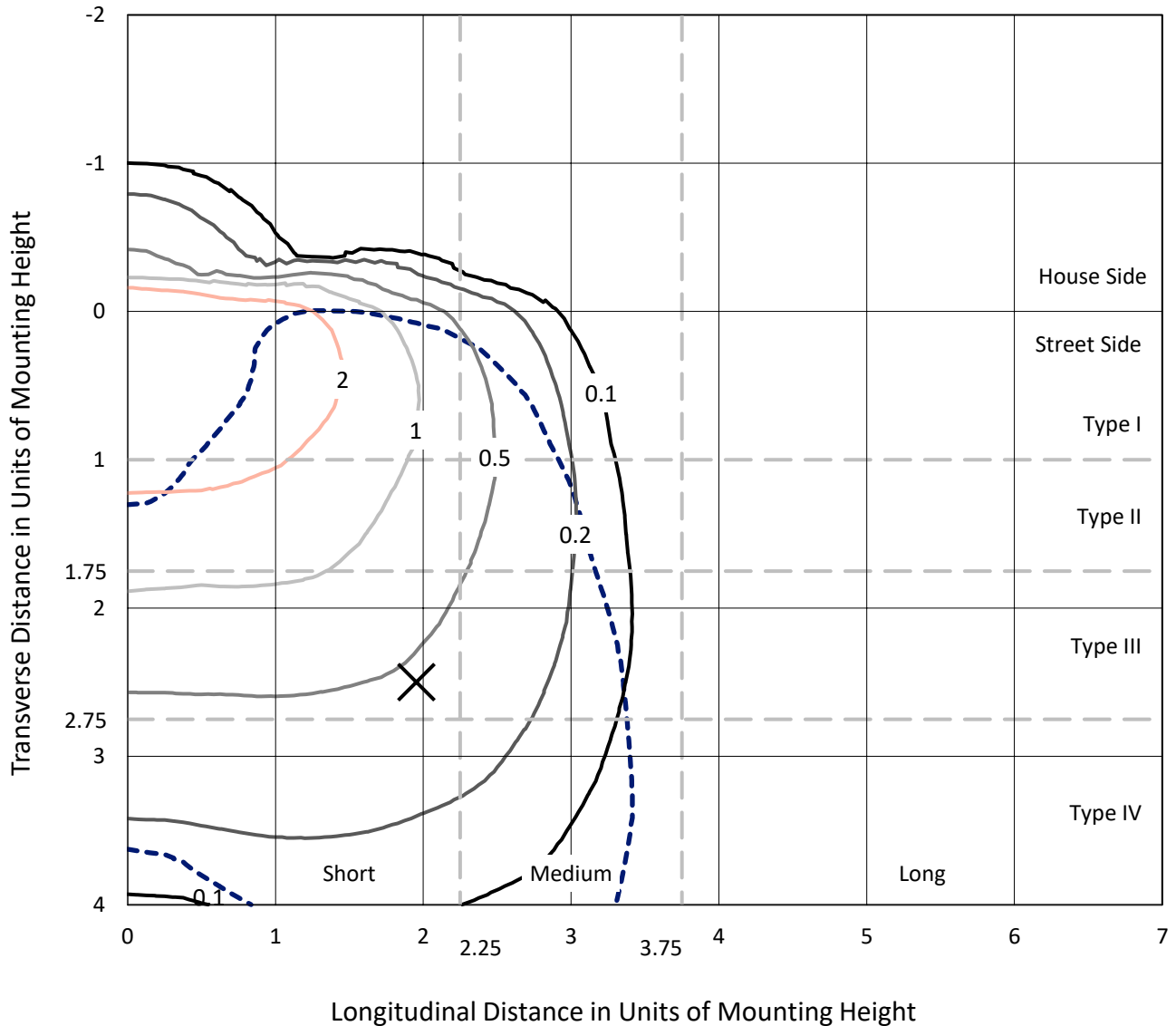
Lumens per Lamp: N/A
Luminaire Lumens: 5570.2 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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: P673975
 CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

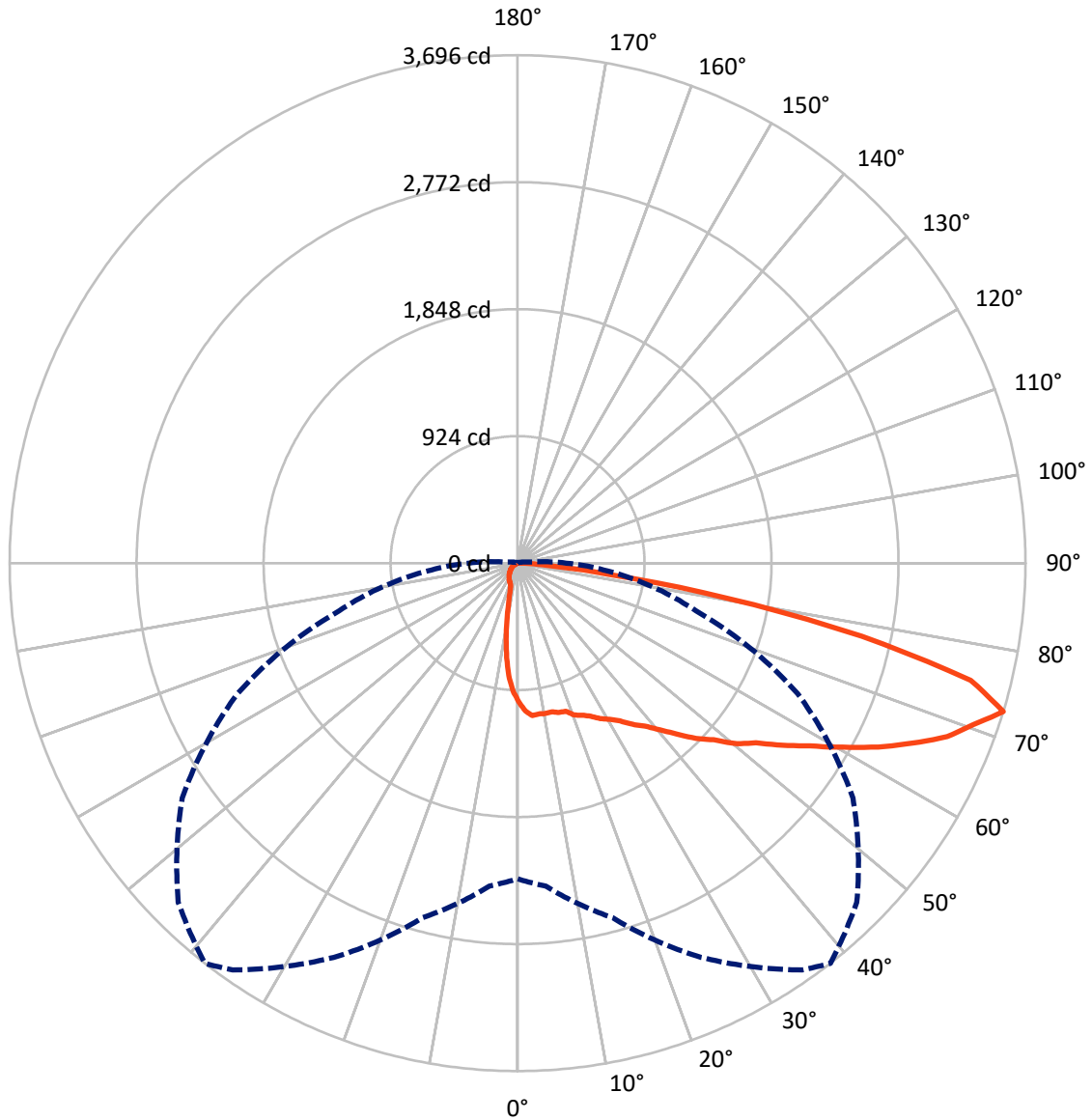
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P673975
CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P673975
 CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

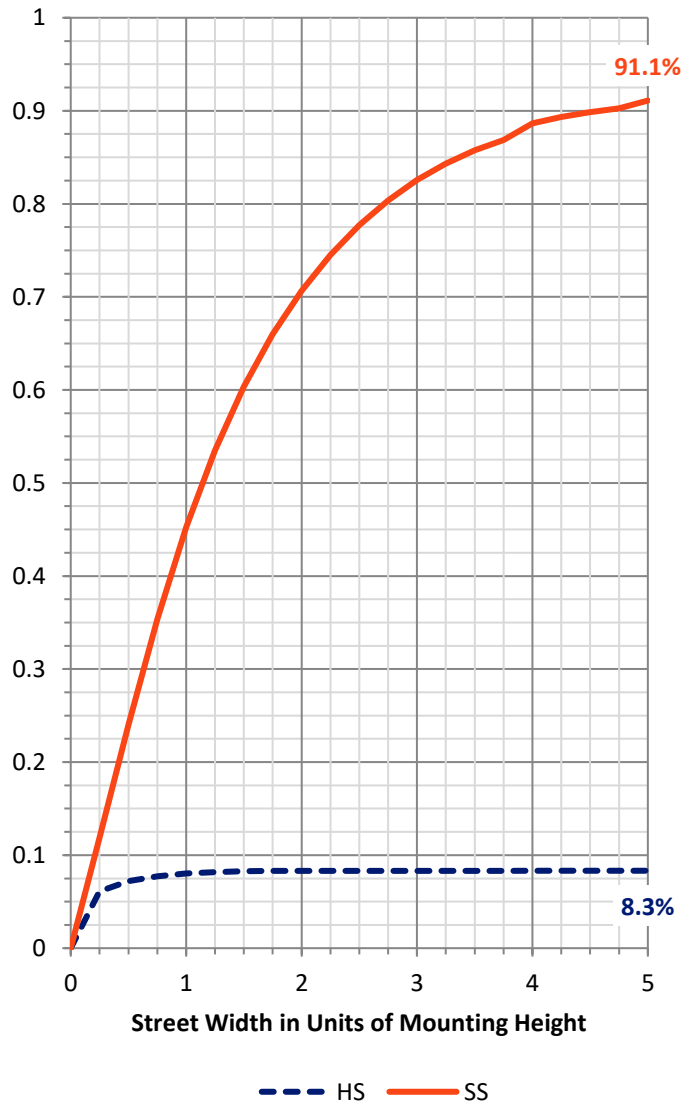
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 466.5 | 0.0 | 466.5 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 5103.7 | 0.0 | 5103.7 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 5570.2 | 0.0 | 5570.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.2 | 1.6 |
| 10°-20° | 215.9 | 3.9 |
| 20°-30° | 346.1 | 6.2 |
| 30°-40° | 522.5 | 9.4 |
| 40°-50° | 795.2 | 14.3 |
| 50°-60° | 1119.5 | 20.1 |
| 60°-70° | 1367.5 | 24.6 |
| 70°-80° | 993.0 | 17.8 |
| 80°-90° | 122.3 | 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° | 5570.2 | 100.0 |
| 0°-180° | 5570.2 | 100.0 |



REPORT NUMBER: P673975

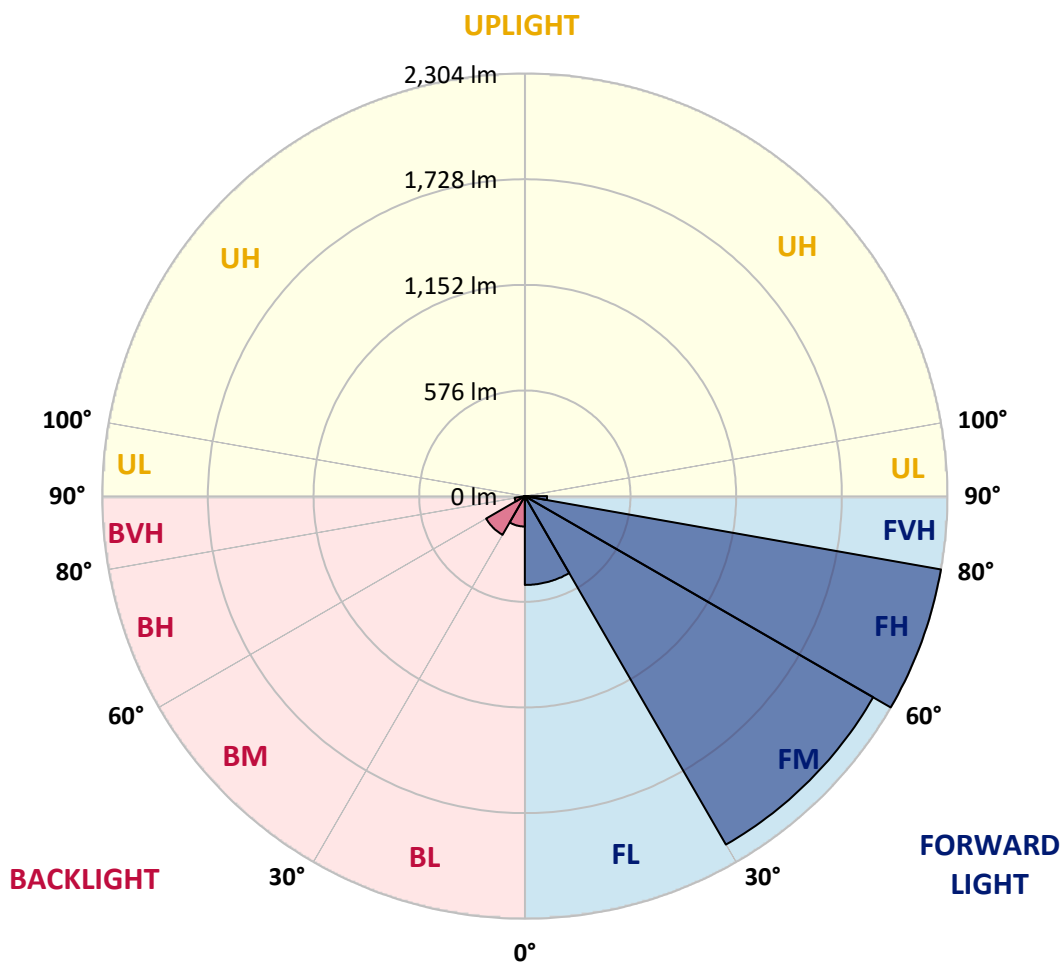
CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 484.5 | 8.7 | | | |
| FM (30°-60°) | 2193.5 | 39.4 | | | |
| FH (60°-80°) | 2304.0 | 41.4 | | | G2/5000 |
| FVH (80°-90°) | 121.7 | 2.2 | | | G2/225 |
| BL (0°-30°) | 165.6 | 3.0 | B1/500 | | |
| BM (30°-60°) | 243.7 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 56.6 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 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-G2

Type IV Short





REPORT NUMBER: P673975

CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 |
| 2.5° | 1106.6 | 1106.6 | 1117.1 | 1106.6 | 1102.7 | 1077.9 | 1079.2 | 1066.1 | 1053.0 | 1034.7 | 1017.8 |
| 5° | 1119.7 | 1128.8 | 1135.3 | 1126.2 | 1111.8 | 1114.4 | 1123.6 | 1098.8 | 1063.5 | 1041.3 | 1003.4 |
| 7.5° | 1114.4 | 1134.0 | 1128.8 | 1123.6 | 1114.4 | 1107.9 | 1094.8 | 1084.4 | 1067.4 | 1046.5 | 1002.1 |
| 10° | 1110.5 | 1117.1 | 1118.4 | 1114.4 | 1094.8 | 1113.1 | 1098.8 | 1081.8 | 1060.9 | 1036.1 | 981.2 |
| 12.5° | 1096.2 | 1096.2 | 1107.9 | 1098.8 | 1101.4 | 1110.5 | 1104.0 | 1100.1 | 1077.9 | 1057.0 | 1008.6 |
| 15° | 1080.5 | 1085.7 | 1104.0 | 1118.4 | 1131.4 | 1127.5 | 1123.6 | 1111.8 | 1092.2 | 1068.7 | 1017.8 |
| 17.5° | 1084.4 | 1087.0 | 1115.7 | 1141.9 | 1135.3 | 1132.7 | 1153.6 | 1128.8 | 1109.2 | 1083.1 | 1025.6 |
| 20° | 1098.8 | 1106.6 | 1139.3 | 1173.2 | 1179.8 | 1179.8 | 1171.9 | 1157.6 | 1130.1 | 1094.8 | 1040.0 |
| 22.5° | 1113.1 | 1115.7 | 1169.3 | 1212.4 | 1219.0 | 1202.0 | 1208.5 | 1166.7 | 1140.6 | 1121.0 | 1054.3 |
| 25° | 1168.0 | 1162.8 | 1220.3 | 1254.2 | 1250.3 | 1233.3 | 1226.8 | 1190.2 | 1179.8 | 1144.5 | 1085.7 |
| 27.5° | 1242.5 | 1220.3 | 1276.4 | 1297.4 | 1276.4 | 1281.7 | 1263.4 | 1224.2 | 1202.0 | 1181.1 | 1100.1 |
| 30° | 1288.2 | 1301.3 | 1331.3 | 1352.2 | 1316.9 | 1318.3 | 1309.1 | 1266.0 | 1232.0 | 1237.3 | 1148.4 |
| 32.5° | 1358.8 | 1367.9 | 1390.1 | 1399.3 | 1371.8 | 1369.2 | 1360.1 | 1326.1 | 1301.3 | 1296.0 | 1213.7 |
| 35° | 1434.5 | 1451.5 | 1452.8 | 1455.4 | 1430.6 | 1441.1 | 1428.0 | 1379.7 | 1392.7 | 1401.9 | 1292.1 |
| 37.5° | 1509.0 | 1493.3 | 1519.5 | 1531.2 | 1503.8 | 1503.8 | 1507.7 | 1475.0 | 1498.6 | 1526.0 | 1403.2 |
| 40° | 1537.7 | 1544.3 | 1590.0 | 1580.9 | 1613.5 | 1593.9 | 1608.3 | 1600.5 | 1620.1 | 1682.8 | 1560.0 |
| 42.5° | 1567.8 | 1575.6 | 1637.0 | 1654.0 | 1693.2 | 1699.8 | 1720.7 | 1722.0 | 1779.4 | 1882.7 | 1710.2 |
| 45° | 1625.3 | 1612.2 | 1695.8 | 1737.6 | 1801.7 | 1820.0 | 1844.8 | 1865.7 | 1955.8 | 2077.3 | 1881.4 |
| 47.5° | 1677.5 | 1659.3 | 1754.6 | 1838.2 | 1916.6 | 1920.6 | 1988.5 | 2010.7 | 2117.8 | 2256.3 | 2051.2 |
| 50° | 1750.7 | 1757.2 | 1797.7 | 1941.5 | 2021.2 | 2066.9 | 2113.9 | 2187.1 | 2306.0 | 2453.6 | 2174.0 |
| 52.5° | 1826.5 | 1820.0 | 1887.9 | 2029.0 | 2154.4 | 2171.4 | 2277.2 | 2359.5 | 2488.9 | 2599.9 | 2228.9 |
| 55° | 1919.2 | 1927.1 | 1953.2 | 2138.7 | 2298.1 | 2338.6 | 2457.5 | 2543.7 | 2684.9 | 2662.6 | 2247.2 |
| 57.5° | 2012.0 | 2004.2 | 2063.0 | 2261.5 | 2478.4 | 2508.5 | 2666.6 | 2717.5 | 2812.9 | 2704.4 | 2201.4 |
| 60° | 2103.5 | 2117.8 | 2142.7 | 2400.0 | 2675.7 | 2720.1 | 2845.6 | 2871.7 | 2892.6 | 2724.0 | 2166.2 |
| 62.5° | 2208.0 | 2174.0 | 2251.1 | 2546.4 | 2853.4 | 2946.2 | 3045.4 | 2942.2 | 2923.9 | 2688.8 | 2085.2 |
| 65° | 2260.2 | 2270.7 | 2371.3 | 2713.6 | 3089.9 | 3157.8 | 3170.9 | 3037.6 | 2943.5 | 2610.4 | 2009.4 |
| 67.5° | 2341.2 | 2355.6 | 2483.7 | 2884.7 | 3332.9 | 3370.8 | 3323.7 | 3123.8 | 2926.6 | 2508.5 | 1736.3 |
| 70° | 2351.7 | 2387.0 | 2633.9 | 3063.7 | 3485.7 | 3518.4 | 3481.8 | 3181.3 | 2789.4 | 2107.4 | 1285.6 |
| 72.5° | 2296.8 | 2359.5 | 2670.5 | 3165.6 | 3613.8 | 3696.1 | 3491.0 | 2978.8 | 2248.5 | 1344.4 | 658.5 |
| 75° | 1735.0 | 1787.3 | 2444.5 | 3014.1 | 3386.4 | 3406.0 | 3065.0 | 2273.3 | 1280.4 | 458.6 | 168.5 |
| 77.5° | 898.9 | 989.0 | 1631.8 | 2303.4 | 2580.3 | 2559.4 | 2133.5 | 1339.2 | 440.3 | 120.2 | 67.9 |
| 80° | 516.1 | 538.3 | 713.3 | 1293.4 | 1622.7 | 1543.0 | 1179.8 | 577.5 | 193.4 | 60.1 | 44.4 |
| 82.5° | 254.8 | 286.1 | 384.1 | 578.8 | 811.3 | 667.6 | 442.9 | 346.2 | 108.4 | 32.7 | 39.2 |
| 85° | 54.9 | 57.5 | 196.0 | 277.0 | 329.2 | 216.9 | 151.6 | 291.3 | 39.2 | 19.6 | 37.9 |
| 87.5° | 39.2 | 37.9 | 54.9 | 124.1 | 91.5 | 56.2 | 90.1 | 152.9 | 9.1 | 9.1 | 7.8 |
| 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: P673975
 CATALOG NUMBER: CCP-SA-1E-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 | 1007.3 |
| 2.5° | 1007.3 | 995.6 | 982.5 | 957.7 | 951.1 | 947.2 | 925.0 | 923.7 | 919.8 | 910.6 | 906.7 |
| 5° | 979.9 | 960.3 | 935.5 | 909.3 | 888.4 | 850.5 | 804.8 | 781.3 | 752.5 | 753.8 | 744.7 |
| 7.5° | 976.0 | 939.4 | 904.1 | 849.2 | 782.6 | 712.0 | 641.5 | 595.8 | 563.1 | 543.5 | 547.4 |
| 10° | 957.7 | 930.2 | 872.7 | 770.8 | 663.7 | 556.6 | 466.4 | 398.5 | 359.3 | 329.2 | 338.4 |
| 12.5° | 965.5 | 911.9 | 830.9 | 695.1 | 542.2 | 410.2 | 297.9 | 232.6 | 203.8 | 193.4 | 196.0 |
| 15° | 960.3 | 911.9 | 806.1 | 612.7 | 425.9 | 278.3 | 193.4 | 172.5 | 167.2 | 167.2 | 164.6 |
| 17.5° | 976.0 | 922.4 | 764.3 | 531.7 | 305.7 | 185.5 | 165.9 | 162.0 | 158.1 | 158.1 | 158.1 |
| 20° | 998.2 | 927.6 | 735.6 | 441.6 | 215.6 | 163.3 | 155.5 | 152.9 | 151.6 | 151.6 | 150.2 |
| 22.5° | 999.5 | 922.4 | 682.0 | 342.3 | 165.9 | 154.2 | 147.6 | 146.3 | 146.3 | 143.7 | 143.7 |
| 25° | 1007.3 | 927.6 | 624.5 | 257.4 | 154.2 | 145.0 | 139.8 | 138.5 | 139.8 | 138.5 | 137.2 |
| 27.5° | 1026.9 | 936.8 | 567.0 | 188.1 | 145.0 | 137.2 | 133.3 | 132.0 | 132.0 | 132.0 | 129.3 |
| 30° | 1051.7 | 936.8 | 503.0 | 155.5 | 137.2 | 129.3 | 125.4 | 124.1 | 122.8 | 122.8 | 122.8 |
| 32.5° | 1104.0 | 966.8 | 424.6 | 138.5 | 126.7 | 120.2 | 116.3 | 116.3 | 115.0 | 115.0 | 113.7 |
| 35° | 1169.3 | 987.7 | 344.9 | 128.0 | 117.6 | 111.1 | 107.1 | 107.1 | 105.8 | 105.8 | 104.5 |
| 37.5° | 1250.3 | 1040.0 | 263.9 | 120.2 | 108.4 | 101.9 | 98.0 | 98.0 | 98.0 | 96.7 | 96.7 |
| 40° | 1365.3 | 1093.5 | 196.0 | 109.7 | 99.3 | 92.8 | 90.1 | 88.8 | 87.5 | 87.5 | 84.9 |
| 42.5° | 1488.1 | 1175.8 | 146.3 | 101.9 | 91.5 | 86.2 | 82.3 | 78.4 | 78.4 | 74.5 | 74.5 |
| 45° | 1621.4 | 1247.7 | 118.9 | 92.8 | 83.6 | 77.1 | 73.2 | 70.6 | 66.6 | 64.0 | 64.0 |
| 47.5° | 1752.0 | 1292.1 | 104.5 | 82.3 | 75.8 | 70.6 | 66.6 | 61.4 | 56.2 | 54.9 | 53.6 |
| 50° | 1857.8 | 1305.2 | 92.8 | 74.5 | 69.2 | 64.0 | 58.8 | 52.3 | 47.0 | 44.4 | 43.1 |
| 52.5° | 1857.8 | 1233.3 | 83.6 | 66.6 | 62.7 | 57.5 | 51.0 | 43.1 | 36.6 | 34.0 | 32.7 |
| 55° | 1857.8 | 1119.7 | 74.5 | 61.4 | 56.2 | 52.3 | 43.1 | 35.3 | 28.7 | 24.8 | 23.5 |
| 57.5° | 1830.4 | 982.5 | 66.6 | 54.9 | 49.6 | 44.4 | 36.6 | 27.4 | 20.9 | 17.0 | 17.0 |
| 60° | 1754.6 | 838.8 | 57.5 | 48.3 | 43.1 | 36.6 | 28.7 | 19.6 | 13.1 | 9.1 | 9.1 |
| 62.5° | 1657.9 | 667.6 | 49.6 | 40.5 | 35.3 | 30.0 | 22.2 | 13.1 | 5.2 | 2.6 | 2.6 |
| 65° | 1489.4 | 492.5 | 43.1 | 34.0 | 27.4 | 22.2 | 14.4 | 5.2 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1229.4 | 329.2 | 34.0 | 27.4 | 23.5 | 15.7 | 9.1 | 1.3 | 0.0 | 0.0 | 0.0 |
| 70° | 864.9 | 186.8 | 26.1 | 19.6 | 17.0 | 10.5 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 355.4 | 82.3 | 18.3 | 14.4 | 11.8 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 96.7 | 36.6 | 11.8 | 7.8 | 6.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 56.2 | 24.8 | 5.2 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 44.4 | 11.8 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 44.4 | 6.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 37.9 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.2 | 0.0 | 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 |

(END OF REPORT)