

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: P676976

Luminaire Tested: **CCW-SA-1E-730-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676976
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-730-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

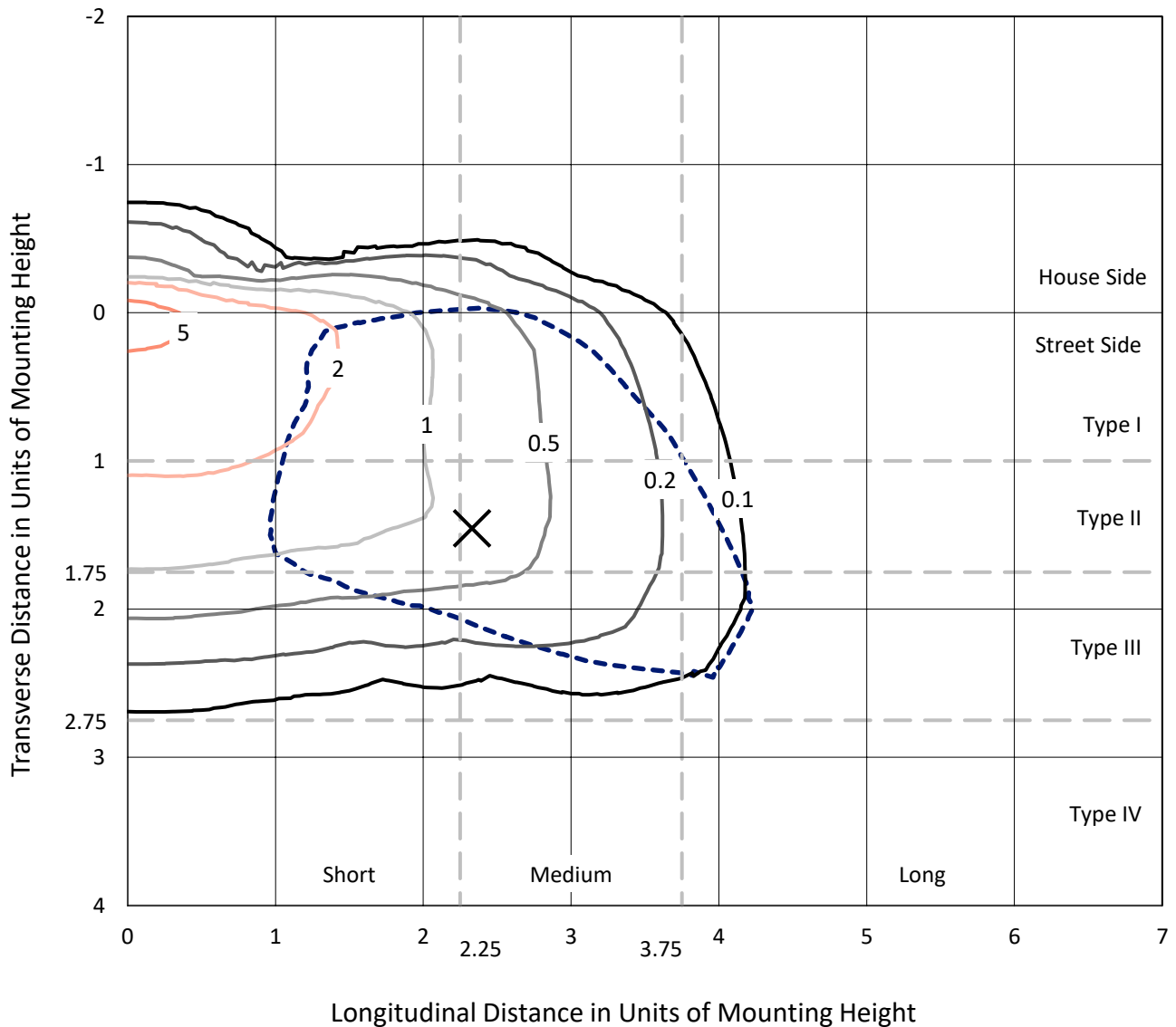
Lumens per Lamp: N/A
Luminaire Lumens: 5144.6 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P676976
 CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

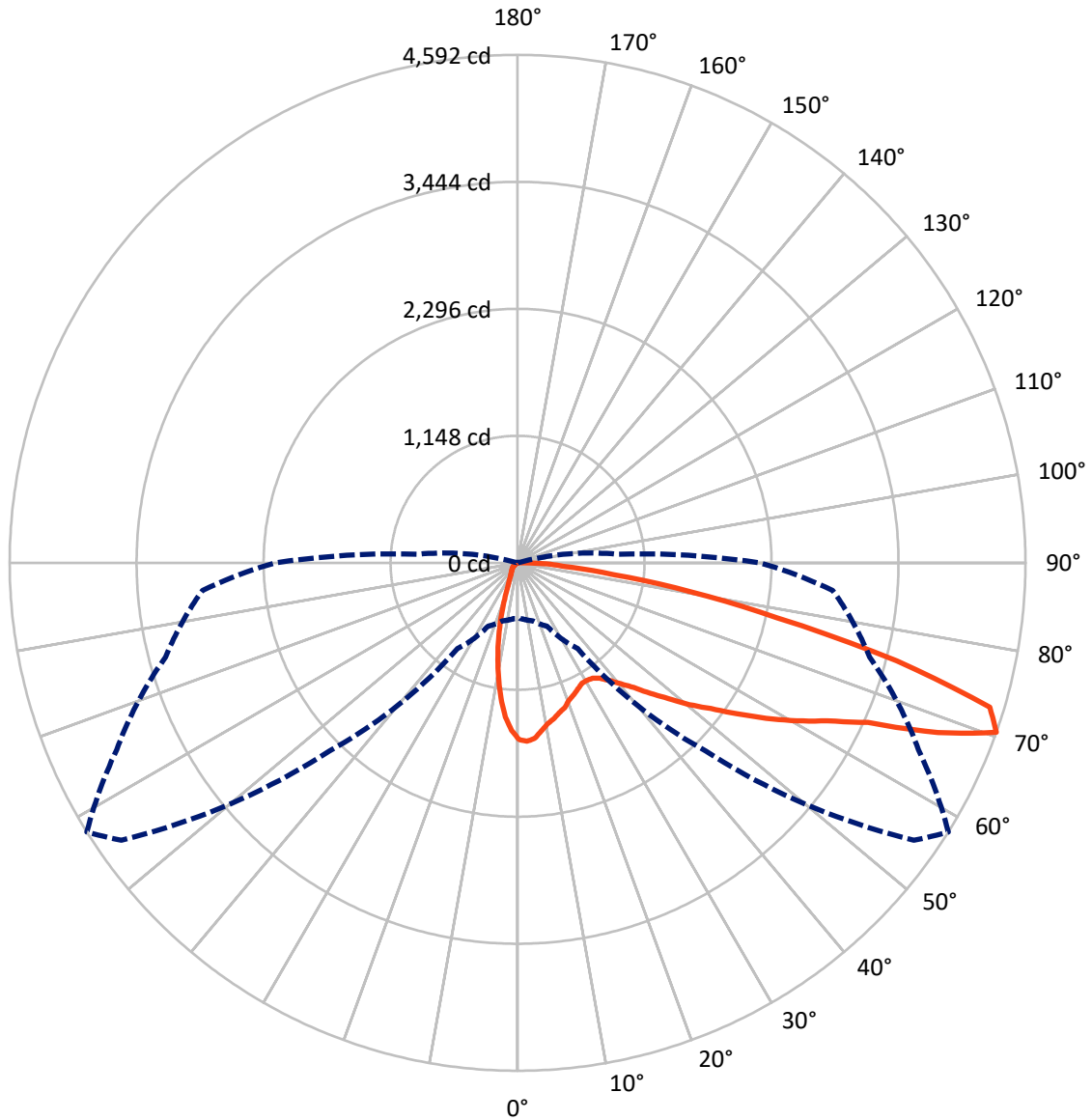
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P676976
CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676976
 CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

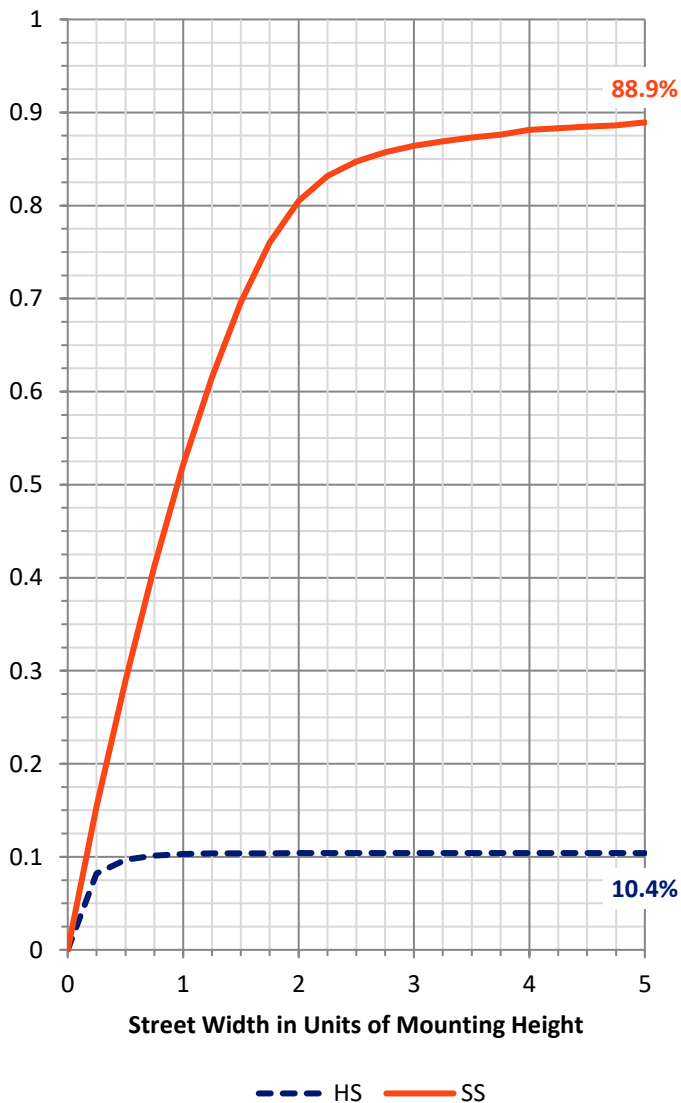
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 538.7 | 0.0 | 538.7 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 4605.9 | 0.0 | 4605.9 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 5144.6 | 0.0 | 5144.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.3 | 2.5 |
| 10°-20° | 271.3 | 5.3 |
| 20°-30° | 363.2 | 7.1 |
| 30°-40° | 491.0 | 9.5 |
| 40°-50° | 704.7 | 13.7 |
| 50°-60° | 1038.6 | 20.2 |
| 60°-70° | 1266.8 | 24.6 |
| 70°-80° | 773.6 | 15.0 |
| 80°-90° | 105.1 | 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° | 5144.6 | 100.0 |
| 0°-180° | 5144.6 | 100.0 |

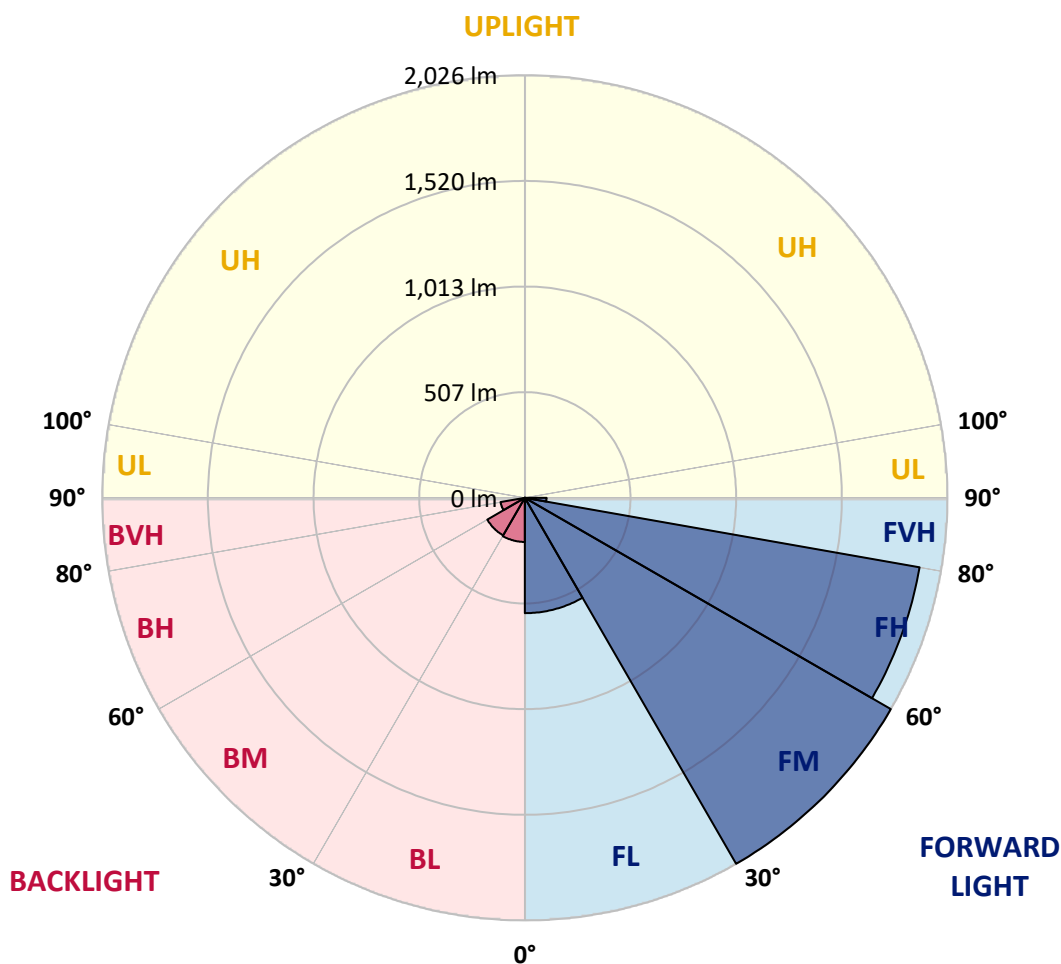


REPORT NUMBER: P676976
 CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 553.1 | 10.8 | | | |
| FM (30°-60°) | 2026.4 | 39.4 | | | |
| FH (60°-80°) | 1922.3 | 37.4 | | | G2/5000 |
| FVH (80°-90°) | 104.1 | 2.0 | | | G2/225 |
| BL (0°-30°) | 211.7 | 4.1 | B1/500 | | |
| BM (30°-60°) | 207.9 | 4.0 | B0/220 | | |
| BH (60°-80°) | 118.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.0 | 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 III Medium





REPORT NUMBER: P676976

CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 |
| 2.5° | 1626.0 | 1632.0 | 1617.6 | 1634.5 | 1618.8 | 1626.0 | 1617.6 | 1615.2 | 1616.4 | 1617.6 | 1607.9 |
| 5° | 1550.0 | 1564.5 | 1570.5 | 1560.9 | 1583.8 | 1580.2 | 1594.6 | 1595.9 | 1589.8 | 1583.8 | 1585.0 |
| 7.5° | 1449.9 | 1464.4 | 1470.4 | 1476.4 | 1499.4 | 1529.5 | 1548.8 | 1536.7 | 1546.4 | 1568.1 | 1535.5 |
| 10° | 1377.5 | 1373.9 | 1372.7 | 1384.8 | 1428.2 | 1453.5 | 1486.1 | 1482.5 | 1506.6 | 1527.1 | 1500.6 |
| 12.5° | 1288.3 | 1281.0 | 1302.7 | 1312.4 | 1351.0 | 1395.6 | 1420.9 | 1447.5 | 1471.6 | 1493.3 | 1463.2 |
| 15° | 1221.9 | 1228.0 | 1236.4 | 1256.9 | 1284.6 | 1343.7 | 1381.1 | 1406.5 | 1449.9 | 1460.8 | 1448.7 |
| 17.5° | 1168.8 | 1173.7 | 1185.7 | 1196.6 | 1231.6 | 1288.3 | 1347.4 | 1377.5 | 1423.4 | 1452.3 | 1414.9 |
| 20° | 1170.1 | 1155.6 | 1155.6 | 1166.4 | 1185.7 | 1253.3 | 1316.0 | 1325.7 | 1388.4 | 1437.8 | 1412.5 |
| 22.5° | 1171.3 | 1166.4 | 1155.6 | 1154.4 | 1162.8 | 1211.1 | 1275.0 | 1296.7 | 1364.3 | 1422.2 | 1392.0 |
| 25° | 1188.1 | 1170.1 | 1171.3 | 1154.4 | 1158.0 | 1182.1 | 1232.8 | 1265.3 | 1342.5 | 1430.6 | 1381.1 |
| 27.5° | 1202.6 | 1211.1 | 1194.2 | 1186.9 | 1166.4 | 1165.2 | 1207.4 | 1235.2 | 1331.7 | 1449.9 | 1388.4 |
| 30° | 1235.2 | 1241.2 | 1241.2 | 1236.4 | 1217.1 | 1189.4 | 1199.0 | 1234.0 | 1310.0 | 1446.3 | 1376.3 |
| 32.5° | 1289.5 | 1278.6 | 1293.1 | 1285.8 | 1260.5 | 1217.1 | 1225.5 | 1243.6 | 1323.2 | 1492.1 | 1395.6 |
| 35° | 1307.6 | 1316.0 | 1335.3 | 1319.6 | 1311.2 | 1285.8 | 1269.0 | 1282.2 | 1342.5 | 1538.0 | 1424.6 |
| 37.5° | 1363.0 | 1351.0 | 1364.3 | 1399.2 | 1407.7 | 1361.8 | 1329.3 | 1348.6 | 1414.9 | 1592.2 | 1451.1 |
| 40° | 1367.9 | 1377.5 | 1401.6 | 1470.4 | 1478.8 | 1459.5 | 1433.0 | 1437.8 | 1487.3 | 1662.2 | 1517.4 |
| 42.5° | 1392.0 | 1402.9 | 1452.3 | 1510.2 | 1556.0 | 1559.7 | 1540.4 | 1540.4 | 1582.6 | 1774.4 | 1591.0 |
| 45° | 1439.0 | 1420.9 | 1484.9 | 1582.6 | 1648.9 | 1662.2 | 1687.5 | 1681.5 | 1715.3 | 1892.6 | 1728.5 |
| 47.5° | 1457.1 | 1463.2 | 1533.1 | 1651.3 | 1727.3 | 1788.9 | 1831.1 | 1832.3 | 1849.2 | 2043.4 | 1907.1 |
| 50° | 1516.2 | 1515.0 | 1599.5 | 1709.2 | 1821.4 | 1933.6 | 2015.6 | 2015.6 | 2014.4 | 2190.5 | 2060.3 |
| 52.5° | 1594.6 | 1592.2 | 1657.4 | 1787.6 | 1933.6 | 2074.7 | 2183.3 | 2186.9 | 2214.7 | 2371.5 | 2236.4 |
| 55° | 1722.5 | 1711.7 | 1774.4 | 1870.9 | 2045.8 | 2217.1 | 2405.2 | 2406.4 | 2384.7 | 2500.5 | 2363.0 |
| 57.5° | 1829.9 | 1828.7 | 1880.5 | 1973.4 | 2171.2 | 2400.4 | 2618.7 | 2651.3 | 2582.6 | 2633.2 | 2464.3 |
| 60° | 1802.1 | 1817.8 | 1925.2 | 2062.7 | 2303.9 | 2629.6 | 2849.1 | 2899.8 | 2790.0 | 2723.7 | 2540.3 |
| 62.5° | 1629.6 | 1665.8 | 1782.8 | 2002.4 | 2416.1 | 2962.5 | 3166.4 | 3143.5 | 2898.6 | 2800.9 | 2633.2 |
| 65° | 1172.5 | 1208.7 | 1353.4 | 1682.7 | 2285.8 | 3197.7 | 3583.7 | 3480.0 | 3091.6 | 2915.5 | 2757.5 |
| 67.5° | 690.0 | 704.4 | 794.9 | 1073.6 | 1709.2 | 3069.9 | 4090.4 | 4098.8 | 3471.6 | 3091.6 | 2972.2 |
| 70° | 498.2 | 509.0 | 544.0 | 633.3 | 946.9 | 2406.4 | 4372.6 | 4592.1 | 3998.7 | 3294.2 | 2858.8 |
| 72.5° | 382.4 | 382.4 | 441.5 | 527.1 | 603.1 | 1441.5 | 4024.0 | 4464.3 | 4113.3 | 3100.0 | 2303.9 |
| 75° | 275.0 | 282.3 | 346.2 | 453.5 | 556.1 | 723.7 | 2964.9 | 3542.7 | 3486.0 | 2512.6 | 1609.1 |
| 77.5° | 158.0 | 161.6 | 243.7 | 380.0 | 522.3 | 497.0 | 1832.3 | 2401.6 | 2469.2 | 1572.9 | 697.2 |
| 80° | 80.8 | 83.2 | 136.3 | 300.4 | 472.8 | 433.0 | 1092.9 | 1581.4 | 1341.3 | 457.2 | 161.6 |
| 82.5° | 39.8 | 39.8 | 61.5 | 191.8 | 401.7 | 383.6 | 642.9 | 873.3 | 475.3 | 104.9 | 67.5 |
| 85° | 13.3 | 14.5 | 27.7 | 108.6 | 290.7 | 231.6 | 393.2 | 414.9 | 159.2 | 39.8 | 37.4 |
| 87.5° | 3.6 | 4.8 | 7.2 | 39.8 | 126.7 | 152.0 | 234.0 | 265.4 | 65.1 | 15.7 | 18.1 |
| 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: P676976

CATALOG NUMBER: CCW-SA-1E-730-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 | 1597.1 |
| 2.5° | 1571.7 | 1563.3 | 1553.6 | 1529.5 | 1510.2 | 1484.9 | 1468.0 | 1454.7 | 1429.4 | 1434.2 | 1423.4 |
| 5° | 1556.0 | 1540.4 | 1484.9 | 1431.8 | 1383.6 | 1310.0 | 1259.3 | 1226.7 | 1200.2 | 1173.7 | 1193.0 |
| 7.5° | 1528.3 | 1490.9 | 1404.1 | 1305.1 | 1202.6 | 1106.1 | 1009.6 | 951.7 | 909.5 | 870.9 | 869.7 |
| 10° | 1481.3 | 1420.9 | 1284.6 | 1155.6 | 997.6 | 870.9 | 747.9 | 651.4 | 588.6 | 542.8 | 541.6 |
| 12.5° | 1428.2 | 1365.5 | 1194.2 | 984.3 | 802.1 | 623.6 | 476.5 | 373.9 | 314.8 | 278.6 | 273.8 |
| 15° | 1394.4 | 1302.7 | 1080.8 | 832.3 | 606.7 | 406.5 | 264.2 | 200.2 | 177.3 | 168.9 | 168.9 |
| 17.5° | 1351.0 | 1246.0 | 968.6 | 674.3 | 421.0 | 235.2 | 171.3 | 154.4 | 153.2 | 150.8 | 148.4 |
| 20° | 1332.9 | 1202.6 | 868.5 | 538.0 | 266.6 | 166.5 | 147.2 | 143.5 | 143.5 | 141.1 | 138.7 |
| 22.5° | 1284.6 | 1139.9 | 762.3 | 394.4 | 177.3 | 146.0 | 138.7 | 133.9 | 131.5 | 129.1 | 131.5 |
| 25° | 1262.9 | 1095.3 | 662.2 | 272.6 | 144.7 | 130.3 | 126.7 | 121.8 | 118.2 | 117.0 | 117.0 |
| 27.5° | 1248.5 | 1050.6 | 564.5 | 189.4 | 127.9 | 119.4 | 112.2 | 108.6 | 103.7 | 98.9 | 98.9 |
| 30° | 1237.6 | 1015.7 | 470.4 | 139.9 | 114.6 | 106.1 | 100.1 | 91.7 | 85.6 | 80.8 | 80.8 |
| 32.5° | 1223.1 | 974.6 | 376.3 | 119.4 | 103.7 | 95.3 | 84.4 | 77.2 | 68.8 | 65.1 | 65.1 |
| 35° | 1228.0 | 946.9 | 295.5 | 106.1 | 92.9 | 82.0 | 72.4 | 62.7 | 54.3 | 50.7 | 49.5 |
| 37.5° | 1237.6 | 926.4 | 224.4 | 95.3 | 83.2 | 71.2 | 60.3 | 49.5 | 44.6 | 39.8 | 39.8 |
| 40° | 1278.6 | 920.4 | 165.3 | 88.1 | 76.0 | 62.7 | 50.7 | 41.0 | 36.2 | 32.6 | 31.4 |
| 42.5° | 1347.4 | 928.8 | 127.9 | 79.6 | 68.8 | 53.1 | 42.2 | 33.8 | 28.9 | 25.3 | 24.1 |
| 45° | 1435.4 | 961.4 | 104.9 | 74.8 | 60.3 | 44.6 | 33.8 | 27.7 | 21.7 | 19.3 | 19.3 |
| 47.5° | 1563.3 | 1012.0 | 91.7 | 68.8 | 53.1 | 37.4 | 28.9 | 21.7 | 16.9 | 14.5 | 14.5 |
| 50° | 1708.0 | 1069.9 | 80.8 | 61.5 | 45.8 | 31.4 | 22.9 | 16.9 | 12.1 | 10.9 | 10.9 |
| 52.5° | 1852.8 | 1143.5 | 74.8 | 56.7 | 39.8 | 25.3 | 18.1 | 12.1 | 8.4 | 7.2 | 7.2 |
| 55° | 2004.8 | 1208.7 | 67.5 | 53.1 | 32.6 | 20.5 | 13.3 | 7.2 | 4.8 | 3.6 | 3.6 |
| 57.5° | 2110.9 | 1234.0 | 59.1 | 45.8 | 25.3 | 15.7 | 9.6 | 4.8 | 2.4 | 1.2 | 1.2 |
| 60° | 2186.9 | 1237.6 | 50.7 | 37.4 | 19.3 | 12.1 | 6.0 | 2.4 | 1.2 | 0.0 | 0.0 |
| 62.5° | 2250.8 | 1244.8 | 43.4 | 28.9 | 14.5 | 8.4 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 |
| 65° | 2377.5 | 1238.8 | 35.0 | 22.9 | 9.6 | 4.8 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 2477.6 | 1178.5 | 27.7 | 15.7 | 6.0 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2191.7 | 898.6 | 21.7 | 10.9 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1721.3 | 599.5 | 14.5 | 6.0 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1129.0 | 297.9 | 10.9 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 439.1 | 78.4 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 106.1 | 26.5 | 3.6 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 45.8 | 9.6 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.7 | 4.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.5 | 2.4 | 1.2 | 1.2 | 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)