

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: FAIL-SAFE

Report Number: P837920

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-50-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

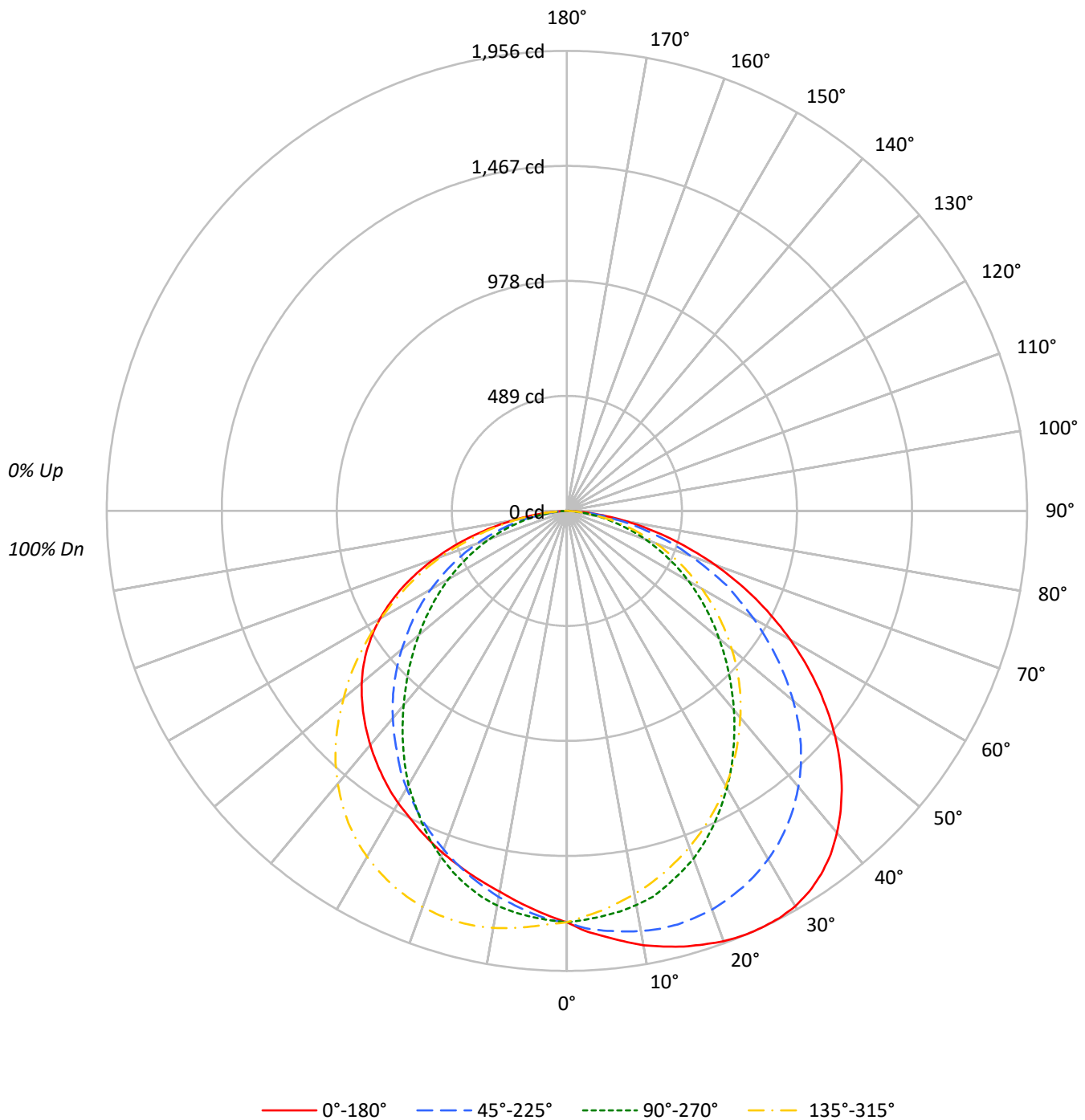
Lumens per Lamp: N/A
Luminaire Lumens: 5132.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4707	4707	4707	4707
5°	4906	4673	4585	4681
10°	5124	4649	4492	4656
15°	5344	4590	4448	4591
20°	5577	4507	4428	4481
25°	5808	4381	4428	4336
30°	6032	4228	4458	4181
35°	6193	4055	4503	3990
40°	6275	3880	4565	3792
45°	6287	3703	4654	3610
50°	6228	3534	4767	3440
55°	6099	3377	4874	3283
60°	5907	3212	4939	3129
65°	5643	3024	4913	2954
70°	5271	2803	4738	2751
75°	4743	2498	4348	2486
80°	4021	2094	3654	2125
85°	2797	1386	2319	1423

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	3.2
10°-20°	480.9	9.4
20°-30°	737.0	14.4
30°-40°	896.2	17.5
40°-50°	931.6	18.2
50°-60°	841.5	16.4
60°-70°	639.8	12.5
70°-80°	356.7	7.0
80°-90°	82.1	1.6
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°-30°	1384.0	27.0
0°-40°	2280.2	44.4
0°-60°	4053.4	79.0
0°-90°	5132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5132.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1749	1749	1749	1749	1749	
5°	1816	1730	1697	1733	1816	175
15°	1918	1648	1597	1648	1918	544
25°	1956	1475	1491	1460	1956	903
35°	1885	1234	1371	1215	1885	1177
45°	1652	973	1223	949	1652	1272
55°	1300	720	1039	700	1300	1160
65°	886	475	772	464	886	876
75°	456	240	418	239	456	485
85°	91	45	75	46	91	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
2.5°	1788.0	1761.9	1762.3	1785.1	1767.6	1776.1	1751.7	1761.0	1758.2	1760.2	1740.2
5°	1816.1	1788.0	1787.6	1807.2	1787.6	1791.2	1760.2	1766.4	1757.4	1751.7	1730.0
7.5°	1845.9	1817.8	1814.9	1832.0	1806.3	1803.5	1769.2	1769.2	1752.9	1738.6	1718.2
10°	1875.3	1846.3	1842.7	1855.7	1823.9	1814.5	1772.9	1766.4	1744.7	1723.5	1701.5
12.5°	1897.3	1868.0	1865.1	1873.3	1837.4	1820.2	1772.9	1760.2	1728.4	1698.6	1681.5
15°	1918.1	1887.9	1880.2	1884.3	1843.1	1820.2	1767.2	1747.6	1706.8	1667.6	1647.6
17.5°	1932.8	1903.9	1896.1	1895.7	1845.9	1813.3	1754.9	1728.0	1679.0	1631.7	1611.7
20°	1947.5	1918.5	1908.8	1901.4	1845.1	1803.9	1737.0	1700.7	1643.5	1590.5	1573.8
22.5°	1954.9	1925.1	1914.5	1903.5	1839.8	1786.8	1714.9	1668.8	1603.6	1540.3	1526.4
25°	1956.1	1925.5	1914.1	1898.1	1829.2	1766.4	1686.4	1630.5	1557.4	1487.3	1475.4
27.5°	1952.8	1919.4	1907.9	1888.8	1813.3	1741.5	1652.5	1586.8	1508.5	1431.0	1418.3
30°	1941.4	1907.5	1896.5	1871.6	1790.8	1710.9	1615.4	1538.3	1454.2	1371.8	1360.8
32.5°	1918.5	1885.5	1876.5	1851.6	1766.4	1675.4	1572.1	1486.0	1394.2	1315.5	1299.2
35°	1885.1	1852.0	1846.3	1820.2	1732.1	1632.9	1524.8	1428.9	1330.6	1250.2	1234.3
37.5°	1841.4	1813.7	1805.1	1779.4	1691.7	1584.8	1470.5	1366.9	1265.7	1179.2	1169.4
40°	1786.3	1760.2	1753.7	1730.9	1644.8	1531.3	1411.8	1302.8	1198.8	1118.4	1104.5
42.5°	1723.5	1699.0	1695.4	1671.7	1586.8	1472.2	1348.1	1236.3	1129.0	1051.5	1037.6
45°	1652.1	1628.4	1627.6	1605.2	1523.6	1406.5	1281.2	1169.0	1060.9	980.5	973.1
47.5°	1573.4	1552.1	1552.1	1531.3	1453.0	1334.3	1212.3	1098.8	992.3	921.3	908.3
50°	1487.7	1467.7	1461.6	1451.4	1375.1	1255.5	1139.6	1030.3	924.6	856.9	844.2
52.5°	1396.3	1379.1	1383.2	1364.4	1290.6	1173.5	1066.2	953.2	856.5	794.8	782.2
55°	1300.0	1275.5	1279.2	1272.2	1202.5	1089.0	983.8	889.5	789.5	731.6	719.8
57.5°	1200.0	1168.2	1181.2	1177.2	1108.6	1002.5	908.3	817.3	723.0	669.6	658.1
60°	1097.6	1067.0	1080.5	1076.8	1012.3	916.0	830.3	745.9	656.9	608.4	596.9
62.5°	992.3	964.2	976.4	973.6	914.4	827.5	752.8	675.3	590.4	546.8	536.1
65°	886.2	859.3	870.3	868.3	813.6	747.5	673.2	602.2	523.5	485.6	474.9
67.5°	777.7	752.8	763.0	763.0	712.8	649.6	593.3	528.4	457.8	425.2	415.4
70°	670.0	646.7	655.7	654.9	612.5	561.0	512.5	454.5	391.3	364.4	356.2
72.5°	561.4	541.0	549.2	548.4	512.9	479.8	431.7	381.5	326.4	304.8	297.5
75°	456.2	437.0	444.8	443.9	415.0	384.0	351.7	310.1	262.8	247.7	240.3
77.5°	355.8	336.2	342.7	342.7	321.5	299.1	273.4	241.1	207.7	191.4	186.1
80°	259.5	250.1	246.9	247.3	233.0	218.3	205.2	174.2	149.7	138.7	135.1
82.5°	170.6	162.8	159.5	160.4	152.2	143.2	135.1	113.4	97.1	90.6	88.5
85°	90.6	84.9	82.0	84.1	82.4	77.5	73.4	58.8	48.6	46.1	44.9
87.5°	28.6	24.9	22.8	30.2	25.7	22.8	22.0	17.5	13.5	13.5	13.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
2.5°	1746.8	1746.8	1730.9	1727.2	1725.6	1727.6	1711.7	1708.8	1731.7	1723.9	1706.4
5°	1732.9	1732.1	1709.6	1705.6	1705.6	1703.1	1685.2	1681.1	1703.9	1697.4	1678.2
7.5°	1715.8	1713.3	1686.8	1683.9	1679.9	1678.2	1658.2	1655.4	1675.0	1670.9	1652.9
10°	1694.9	1692.5	1661.1	1659.0	1654.6	1651.3	1632.5	1630.5	1650.5	1643.9	1629.7
12.5°	1667.6	1663.1	1630.9	1628.8	1625.2	1624.0	1605.6	1604.8	1626.8	1620.3	1605.2
15°	1631.7	1628.0	1592.1	1592.9	1593.3	1593.3	1578.7	1577.8	1599.5	1596.6	1580.3
17.5°	1592.1	1587.2	1553.0	1555.4	1558.3	1561.5	1550.1	1552.1	1575.0	1571.3	1556.6
20°	1547.2	1542.3	1508.9	1515.8	1521.9	1528.5	1521.1	1526.8	1548.1	1546.4	1535.4
22.5°	1497.1	1492.2	1461.1	1471.8	1482.0	1494.2	1490.9	1497.5	1519.9	1519.5	1509.7
25°	1435.9	1437.1	1409.7	1422.8	1439.9	1457.1	1458.3	1468.9	1493.8	1491.3	1482.4
27.5°	1378.7	1380.4	1351.4	1373.4	1396.3	1418.3	1423.6	1438.3	1463.6	1461.6	1453.8
30°	1318.7	1320.8	1292.6	1322.8	1350.6	1377.5	1388.9	1408.9	1434.6	1434.6	1426.5
32.5°	1256.3	1260.0	1230.6	1271.0	1303.2	1334.7	1354.7	1375.5	1404.8	1404.0	1397.1
35°	1192.3	1196.3	1169.4	1220.8	1253.1	1291.4	1316.3	1344.0	1370.2	1370.6	1365.3
37.5°	1127.0	1131.9	1107.4	1163.7	1200.4	1245.7	1277.5	1305.3	1334.3	1335.9	1331.0
40°	1062.1	1067.4	1046.2	1100.5	1147.0	1197.6	1234.3	1266.9	1298.8	1299.6	1296.3
42.5°	997.2	1002.9	987.0	1040.1	1092.7	1147.0	1190.2	1227.3	1260.0	1262.0	1258.4
45°	934.0	938.9	927.4	985.4	1036.0	1095.1	1144.9	1187.0	1220.0	1222.9	1221.6
47.5°	871.1	875.6	865.4	918.5	976.8	1039.7	1097.2	1143.7	1178.8	1182.1	1181.2
50°	809.5	813.2	802.2	857.7	915.6	982.5	1042.5	1096.4	1135.5	1138.8	1138.4
52.5°	748.3	752.0	742.6	801.0	853.6	924.2	989.5	1047.8	1086.6	1091.5	1092.3
55°	689.2	690.8	683.4	739.3	790.4	864.2	939.3	996.0	1034.8	1038.8	1041.3
57.5°	630.0	630.4	624.3	677.7	726.7	802.2	880.9	940.5	977.2	981.3	985.0
60°	571.2	570.8	563.9	615.7	662.6	737.3	819.3	878.5	914.0	917.7	922.6
62.5°	512.9	511.7	505.5	553.3	597.4	671.2	753.6	810.8	844.6	847.1	853.6
65°	455.0	453.7	448.0	492.1	532.1	602.7	683.4	737.7	768.3	771.6	770.4
67.5°	397.8	395.4	390.9	430.5	466.8	532.1	609.6	661.4	686.7	689.6	697.3
70°	340.7	337.8	327.6	369.7	401.5	459.8	532.1	578.2	599.4	602.2	601.0
72.5°	284.4	281.5	270.5	309.3	336.2	387.2	451.7	490.0	508.4	510.9	510.9
75°	229.7	228.1	221.2	250.5	273.0	314.6	369.3	401.1	415.4	418.2	417.4
77.5°	177.1	175.9	168.9	194.2	211.8	242.8	286.8	311.7	322.3	325.6	332.5
80°	126.9	126.5	115.5	140.4	148.1	174.2	206.5	225.6	231.4	235.8	240.7
82.5°	81.2	81.6	70.6	91.8	95.1	111.8	131.8	143.6	147.7	151.4	155.1
85°	39.6	41.2	35.1	48.6	49.0	57.5	66.1	70.6	72.2	75.1	78.3
87.5°	10.2	11.8	6.5	13.9	12.2	15.9	18.4	19.6	19.2	21.2	22.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
2.5°	1712.1	1725.1	1718.6	1739.8	1748.0	1734.9	1757.8	1758.2	1741.9	1761.0	1771.7
5°	1685.6	1699.0	1694.9	1717.0	1727.2	1715.8	1743.5	1748.8	1732.9	1754.5	1771.7
7.5°	1658.6	1674.5	1669.2	1691.7	1703.9	1694.9	1724.7	1733.3	1721.1	1744.7	1767.6
10°	1635.4	1648.8	1643.1	1666.8	1677.4	1670.1	1699.4	1715.4	1703.9	1732.9	1760.2
12.5°	1612.5	1623.5	1617.0	1636.6	1646.8	1637.4	1673.3	1688.0	1679.9	1710.0	1745.1
15°	1583.1	1595.4	1586.4	1604.0	1611.7	1603.6	1632.9	1658.2	1648.0	1681.1	1719.8
17.5°	1560.7	1567.6	1555.4	1569.3	1573.8	1562.7	1592.5	1617.4	1610.1	1646.0	1690.9
20°	1535.8	1541.5	1524.4	1532.1	1531.7	1517.9	1545.2	1569.7	1564.8	1604.4	1655.4
22.5°	1508.1	1510.9	1490.9	1492.6	1491.8	1468.9	1493.4	1518.3	1516.2	1556.2	1613.3
25°	1478.7	1479.1	1453.4	1452.6	1443.6	1416.7	1438.3	1466.5	1460.3	1503.6	1563.6
27.5°	1449.7	1445.6	1414.6	1407.3	1393.0	1360.8	1380.0	1405.2	1401.6	1444.0	1510.5
30°	1418.7	1413.4	1375.5	1362.0	1341.2	1304.1	1320.0	1343.6	1345.7	1382.8	1452.6
32.5°	1389.3	1375.9	1333.8	1314.3	1288.1	1244.9	1253.5	1277.5	1280.8	1318.3	1390.2
35°	1351.4	1342.4	1290.6	1257.1	1231.4	1184.1	1193.1	1209.8	1214.7	1251.4	1324.5
37.5°	1315.5	1301.2	1246.1	1205.3	1172.3	1122.5	1124.9	1142.1	1147.0	1184.1	1256.3
40°	1278.4	1258.0	1198.8	1151.0	1113.1	1060.9	1058.0	1076.0	1079.6	1116.0	1181.2
42.5°	1238.8	1214.3	1147.8	1095.6	1051.9	998.9	993.1	1008.6	1012.7	1048.2	1112.3
45°	1198.8	1169.4	1095.6	1038.4	990.7	936.4	930.7	942.5	948.7	982.1	1043.7
47.5°	1156.4	1122.1	1041.7	978.0	928.7	874.4	867.5	879.3	884.2	917.2	975.6
50°	1111.9	1070.3	986.2	916.0	867.1	813.6	803.4	817.3	821.8	852.8	909.9
52.5°	1062.9	1016.8	927.0	853.6	804.6	753.6	741.4	754.9	760.2	790.4	843.0
55°	1011.1	961.3	867.5	796.1	743.0	693.2	683.0	688.3	699.8	728.3	777.3
57.5°	952.7	903.4	804.6	732.0	681.0	633.3	624.7	629.6	640.2	667.9	712.0
60°	890.7	838.5	740.6	667.9	618.6	573.3	565.5	570.0	581.4	606.7	647.5
62.5°	829.5	770.8	674.5	602.2	557.4	515.3	513.3	511.7	522.3	546.8	582.7
65°	755.3	699.0	605.5	537.0	496.2	458.2	450.1	453.7	463.9	486.4	523.9
67.5°	675.7	624.7	534.9	471.7	435.4	401.5	394.6	396.2	406.8	426.4	459.0
70°	591.2	546.3	462.7	406.0	375.4	343.6	339.1	339.5	349.7	366.8	395.4
72.5°	502.7	462.3	389.7	341.1	315.8	293.0	288.9	284.0	293.4	308.1	332.5
75°	412.5	377.0	317.0	277.5	257.5	238.3	234.6	229.7	239.1	251.8	270.9
77.5°	321.5	293.0	246.4	215.8	200.3	186.1	182.8	177.5	186.9	196.3	211.4
80°	232.6	211.8	184.0	151.8	146.5	137.1	133.8	128.1	137.1	143.2	154.6
82.5°	150.2	136.3	120.4	97.9	97.1	90.2	88.5	82.0	90.2	93.8	102.4
85°	75.9	69.4	65.3	49.8	51.4	46.9	46.5	39.6	46.1	47.7	52.6
87.5°	21.6	22.8	20.4	12.2	15.5	14.7	14.7	10.6	14.7	14.7	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P837920

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2	1749.2
2.5°	1750.8	1757.8	1759.4	1759.0	1763.5	1788.0	1779.8	1788.0
5°	1754.9	1770.4	1774.5	1780.2	1787.6	1815.3	1806.3	1816.1
7.5°	1757.4	1780.6	1789.6	1800.6	1812.5	1843.5	1836.1	1845.9
10°	1757.4	1787.6	1800.6	1819.0	1834.9	1870.8	1863.9	1875.3
12.5°	1750.0	1788.8	1807.2	1832.9	1853.3	1892.0	1889.2	1897.3
15°	1734.9	1782.7	1808.0	1841.0	1866.3	1909.6	1908.3	1918.1
17.5°	1714.5	1772.1	1802.7	1844.3	1876.1	1924.7	1927.5	1932.8
20°	1688.8	1752.1	1792.1	1843.1	1883.0	1936.5	1940.2	1947.5
22.5°	1655.0	1728.0	1776.1	1837.8	1883.9	1941.4	1947.9	1954.9
25°	1615.0	1699.0	1755.3	1827.6	1879.8	1941.0	1950.0	1956.1
27.5°	1569.3	1661.5	1728.8	1811.2	1868.4	1934.5	1945.5	1952.8
30°	1516.2	1621.5	1698.6	1790.0	1852.9	1922.2	1934.1	1941.4
32.5°	1461.6	1577.4	1662.7	1762.7	1830.4	1902.6	1912.8	1918.5
35°	1402.0	1524.0	1619.5	1727.6	1801.4	1871.2	1879.0	1885.1
37.5°	1337.1	1466.0	1570.1	1688.0	1760.6	1827.6	1834.5	1841.4
40°	1270.2	1405.2	1514.6	1639.5	1712.1	1774.1	1781.5	1786.3
42.5°	1202.9	1337.9	1455.4	1582.3	1654.6	1714.1	1718.6	1723.5
45°	1134.7	1268.2	1388.9	1519.1	1590.5	1646.4	1648.0	1652.1
47.5°	1065.4	1195.9	1315.9	1446.9	1517.5	1568.5	1570.1	1573.4
50°	995.6	1123.7	1238.0	1368.9	1437.9	1491.8	1484.4	1487.7
52.5°	927.0	1047.8	1164.5	1284.9	1353.0	1400.8	1402.8	1396.3
55°	859.7	973.6	1080.9	1196.7	1261.6	1298.8	1297.5	1300.0
57.5°	791.6	898.5	996.8	1102.9	1166.1	1201.2	1208.6	1200.0
60°	722.2	822.6	910.7	1006.6	1067.8	1097.2	1105.8	1097.6
62.5°	653.3	745.5	825.4	909.1	965.8	1002.1	1001.3	992.3
65°	584.3	667.9	739.3	810.3	859.7	896.0	894.4	886.2
67.5°	520.6	589.6	653.7	711.2	754.0	778.9	787.5	777.7
70°	450.5	510.0	566.3	612.5	647.9	670.4	678.6	670.0
72.5°	380.3	430.9	470.5	514.9	542.3	561.0	569.6	561.4
75°	310.9	352.5	384.8	419.5	438.6	454.5	464.3	456.2
77.5°	243.6	275.8	301.5	326.8	348.9	352.5	361.1	355.8
80°	179.5	202.8	221.6	238.3	254.2	255.8	262.8	259.5
82.5°	119.6	135.1	140.0	157.5	167.7	166.1	173.0	170.6
85°	63.2	72.6	81.2	86.5	92.2	86.9	93.0	90.6
87.5°	21.2	22.4	19.6	27.7	30.6	26.1	29.8	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)