

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: P838013

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838013
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-LD4-5LO-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

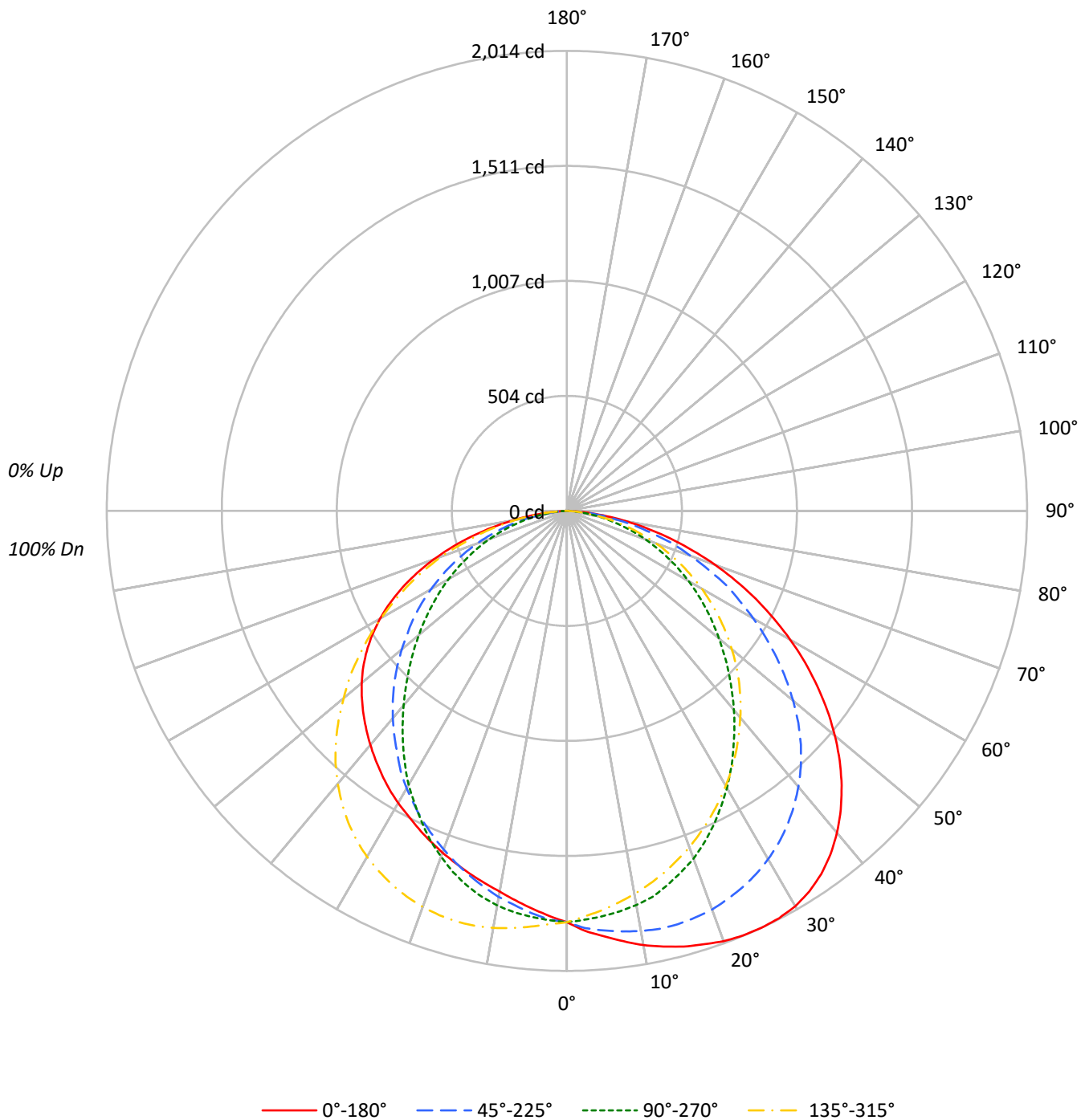
Lumens per Lamp: N/A
Luminaire Lumens: 5283.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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



Cooper Lighting Solutions Photometric Lab

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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°	4846	4846	4846	4846
5°	5051	4811	4720	4819
10°	5275	4787	4624	4793
15°	5501	4725	4579	4727
20°	5742	4640	4559	4613
25°	5979	4510	4559	4464
30°	6211	4353	4589	4305
35°	6375	4174	4635	4108
40°	6460	3994	4700	3905
45°	6473	3812	4791	3717
50°	6412	3638	4908	3542
55°	6279	3476	5018	3380
60°	6082	3307	5084	3222
65°	5810	3114	5058	3041
70°	5426	2885	4878	2832
75°	4882	2572	4477	2560
80°	4141	2154	3763	2187
85°	2881	1426	2387	1467

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.2
10°-20°	495.1	9.4
20°-30°	758.8	14.4
30°-40°	922.6	17.5
40°-50°	959.1	18.2
50°-60°	866.4	16.4
60°-70°	658.7	12.5
70°-80°	367.2	7.0
80°-90°	84.5	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°	1424.8	27.0
0°-40°	2347.4	44.4
0°-60°	4172.9	79.0
0°-90°	5283.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5283.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1801	1801	1801	1801	1801	
5°	1870	1781	1748	1784	1870	180
15°	1975	1696	1644	1697	1975	560
25°	2014	1519	1535	1503	2014	930
35°	1941	1271	1411	1250	1941	1212
45°	1701	1002	1259	977	1701	1309
55°	1338	741	1070	720	1338	1195
65°	912	489	794	478	912	902
75°	470	247	431	246	470	499
85°	93	46	77	48	93	117
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°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1840.7	1813.8	1814.2	1837.8	1819.7	1828.5	1803.3	1813.0	1810.0	1812.1	1791.6
5°	1869.7	1840.7	1840.3	1860.5	1840.3	1844.1	1812.1	1818.4	1809.2	1803.3	1781.1
7.5°	1900.4	1871.4	1868.4	1886.1	1859.6	1856.7	1821.4	1821.4	1804.6	1789.9	1768.9
10°	1930.6	1900.8	1897.0	1910.4	1877.7	1868.0	1825.2	1818.4	1796.2	1774.3	1751.7
12.5°	1953.3	1923.0	1920.1	1928.5	1891.5	1873.9	1825.2	1812.1	1779.4	1748.7	1731.1
15°	1974.7	1943.6	1935.6	1939.8	1897.4	1873.9	1819.3	1799.1	1757.1	1716.8	1696.2
17.5°	1989.8	1960.0	1952.0	1951.6	1900.4	1866.8	1806.7	1779.0	1728.6	1679.8	1659.2
20°	2005.0	1975.1	1965.0	1957.5	1899.5	1857.1	1788.2	1750.8	1692.0	1637.4	1620.2
22.5°	2012.5	1981.8	1970.9	1959.6	1894.1	1839.4	1765.5	1718.1	1650.8	1585.7	1571.4
25°	2013.8	1982.3	1970.5	1954.1	1883.1	1818.4	1736.1	1678.6	1603.4	1531.1	1518.9
27.5°	2010.4	1976.0	1964.2	1944.5	1866.8	1792.8	1701.2	1633.6	1553.0	1473.2	1460.1
30°	1998.7	1963.8	1952.4	1926.8	1843.6	1761.3	1663.0	1583.6	1497.1	1412.2	1400.9
32.5°	1975.1	1941.1	1931.9	1906.2	1818.4	1724.8	1618.5	1529.9	1435.3	1354.3	1337.5
35°	1940.7	1906.7	1900.8	1873.9	1783.2	1681.1	1569.8	1471.1	1369.8	1287.1	1270.7
37.5°	1895.7	1867.2	1858.4	1831.9	1741.6	1631.5	1513.9	1407.2	1303.0	1214.0	1203.9
40°	1839.0	1812.1	1805.4	1781.9	1693.3	1576.5	1453.4	1341.3	1234.1	1151.4	1137.1
42.5°	1774.3	1749.1	1745.4	1721.0	1633.6	1515.6	1387.9	1272.8	1162.3	1082.5	1068.2
45°	1700.8	1676.5	1675.6	1652.5	1568.5	1448.0	1319.0	1203.5	1092.2	1009.4	1001.8
47.5°	1619.8	1597.9	1597.9	1576.5	1495.8	1373.6	1248.0	1131.2	1021.6	948.5	935.1
50°	1531.5	1511.0	1504.7	1494.2	1415.6	1292.5	1173.2	1060.7	951.9	882.1	869.1
52.5°	1437.4	1419.8	1424.0	1404.7	1328.7	1208.1	1097.6	981.3	881.7	818.3	805.3
55°	1338.3	1313.1	1316.9	1309.8	1237.9	1121.1	1012.8	915.7	812.8	753.2	741.0
57.5°	1235.4	1202.6	1216.1	1211.9	1141.3	1032.1	935.1	841.4	744.3	689.3	677.6
60°	1130.0	1098.5	1112.3	1108.5	1042.2	943.0	854.8	767.9	676.3	626.3	614.5
62.5°	1021.6	992.6	1005.2	1002.3	941.4	851.9	775.0	695.2	607.8	562.9	552.0
65°	912.4	884.6	896.0	893.9	837.6	769.6	693.1	620.0	538.9	499.9	489.0
67.5°	800.6	775.0	785.5	785.5	733.8	668.7	610.8	544.0	471.3	437.7	427.6
70°	689.7	665.8	675.0	674.2	630.5	577.6	527.6	467.9	402.8	375.1	366.7
72.5°	578.0	557.0	565.4	564.6	528.0	494.0	444.4	392.8	336.0	313.8	306.2
75°	469.6	449.9	457.9	457.0	427.2	395.3	362.1	319.2	270.5	255.0	247.4
77.5°	366.3	346.1	352.9	352.9	331.0	307.9	281.4	248.3	213.8	197.0	191.5
80°	267.2	257.5	254.1	254.6	239.9	224.7	211.3	179.4	154.2	142.8	139.0
82.5°	175.6	167.6	164.2	165.1	156.7	147.4	139.0	116.8	100.0	93.3	91.2
85°	93.3	87.4	84.4	86.5	84.9	79.8	75.6	60.5	50.0	47.5	46.2
87.5°	29.4	25.6	23.5	31.1	26.5	23.5	22.7	18.1	13.9	13.9	13.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1798.3	1798.3	1781.9	1778.1	1776.4	1778.5	1762.2	1759.2	1782.7	1774.8	1756.7
5°	1784.0	1783.2	1760.1	1755.9	1755.9	1753.3	1734.9	1730.7	1754.2	1747.5	1727.7
7.5°	1766.4	1763.8	1736.5	1733.6	1729.4	1727.7	1707.1	1704.2	1724.4	1720.2	1701.7
10°	1744.9	1742.4	1710.1	1708.0	1703.3	1700.0	1680.7	1678.6	1699.1	1692.4	1677.7
12.5°	1716.8	1712.2	1679.0	1676.9	1673.1	1671.8	1652.9	1652.1	1674.8	1668.1	1652.5
15°	1679.8	1676.0	1639.1	1639.9	1640.3	1640.3	1625.2	1624.4	1646.6	1643.7	1626.9
17.5°	1639.1	1634.0	1598.8	1601.3	1604.2	1607.6	1595.8	1597.9	1621.4	1617.7	1602.5
20°	1592.9	1587.8	1553.4	1560.5	1566.8	1573.5	1566.0	1571.9	1593.7	1592.0	1580.7
22.5°	1541.2	1536.2	1504.2	1515.2	1525.7	1538.3	1534.9	1541.6	1564.7	1564.3	1554.2
25°	1478.2	1479.5	1451.3	1464.8	1482.4	1500.0	1501.3	1512.2	1537.8	1535.3	1526.1
27.5°	1419.4	1421.1	1391.2	1413.9	1437.4	1460.1	1465.6	1480.7	1506.8	1504.7	1496.7
30°	1357.6	1359.7	1330.8	1361.8	1390.4	1418.1	1429.9	1450.5	1476.9	1476.9	1468.5
32.5°	1293.4	1297.1	1266.9	1308.5	1341.7	1374.0	1394.6	1416.0	1446.3	1445.4	1438.3
35°	1227.4	1231.6	1203.9	1256.8	1290.0	1329.5	1355.1	1383.7	1410.6	1411.0	1405.5
37.5°	1160.2	1165.2	1140.0	1198.0	1235.8	1282.4	1315.2	1343.8	1373.6	1375.3	1370.2
40°	1093.4	1098.9	1077.0	1132.9	1180.8	1232.9	1270.7	1304.3	1337.1	1337.9	1334.5
42.5°	1026.6	1032.5	1016.1	1070.7	1124.9	1180.8	1225.3	1263.5	1297.1	1299.2	1295.5
45°	961.5	966.6	954.8	1014.4	1066.5	1127.4	1178.7	1222.0	1256.0	1258.9	1257.7
47.5°	896.8	901.5	890.9	945.6	1005.6	1070.3	1129.5	1177.4	1213.6	1216.9	1216.1
50°	833.4	837.2	825.8	883.0	942.6	1011.5	1073.3	1128.7	1169.0	1172.4	1172.0
52.5°	770.4	774.2	764.5	824.6	878.8	951.4	1018.6	1078.7	1118.6	1123.7	1124.5
55°	709.5	711.2	703.6	761.2	813.7	889.7	967.0	1025.4	1065.3	1069.5	1072.0
57.5°	648.6	649.0	642.7	697.7	748.1	825.8	906.9	968.2	1006.0	1010.2	1014.0
60°	588.1	587.7	580.5	633.9	682.2	759.1	843.5	904.4	940.9	944.7	949.8
62.5°	528.0	526.8	520.5	569.6	615.0	691.0	775.9	834.7	869.5	872.0	878.8
65°	468.4	467.1	461.2	506.6	547.8	620.4	703.6	759.5	791.0	794.3	793.1
67.5°	409.6	407.0	402.4	443.2	480.6	547.8	627.6	680.9	707.0	709.9	717.9
70°	350.8	347.8	337.3	380.6	413.3	473.4	547.8	595.2	617.1	620.0	618.8
72.5°	292.8	289.8	278.5	318.4	346.1	398.6	465.0	504.5	523.4	525.9	525.9
75°	236.5	234.8	227.7	257.9	281.0	323.9	380.2	412.9	427.6	430.6	429.7
77.5°	182.3	181.0	173.9	199.9	218.0	249.9	295.3	320.9	331.8	335.2	342.3
80°	130.6	130.2	118.9	144.5	152.5	179.4	212.6	232.3	238.2	242.8	247.8
82.5°	83.6	84.0	72.7	94.5	97.9	115.1	135.7	147.9	152.1	155.8	159.6
85°	40.7	42.4	36.1	50.0	50.4	59.2	68.0	72.7	74.4	77.3	80.7
87.5°	10.5	12.2	6.7	14.3	12.6	16.4	18.9	20.2	19.7	21.8	23.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1762.6	1776.0	1769.3	1791.1	1799.5	1786.1	1809.6	1810.0	1793.2	1813.0	1823.9
5°	1735.3	1749.1	1744.9	1767.6	1778.1	1766.4	1794.9	1800.4	1784.0	1806.3	1823.9
7.5°	1707.5	1723.9	1718.5	1741.6	1754.2	1744.9	1775.6	1784.4	1771.8	1796.2	1819.7
10°	1683.6	1697.5	1691.6	1716.0	1726.9	1719.3	1749.6	1765.9	1754.2	1784.0	1812.1
12.5°	1660.1	1671.4	1664.7	1684.9	1695.4	1685.7	1722.7	1737.8	1729.4	1760.5	1796.6
15°	1629.8	1642.4	1633.2	1651.3	1659.2	1650.8	1681.1	1707.1	1696.6	1730.7	1770.6
17.5°	1606.7	1613.9	1601.3	1615.6	1620.2	1608.8	1639.5	1665.1	1657.6	1694.5	1740.7
20°	1581.1	1587.0	1569.3	1577.3	1576.9	1562.6	1590.8	1616.0	1610.9	1651.7	1704.2
22.5°	1552.5	1555.5	1534.9	1536.6	1535.7	1512.2	1537.4	1563.0	1560.9	1602.1	1660.9
25°	1522.3	1522.7	1496.3	1495.4	1486.2	1458.5	1480.7	1509.7	1503.4	1547.9	1609.7
27.5°	1492.5	1488.3	1456.4	1448.8	1434.1	1400.9	1420.6	1446.7	1442.9	1486.6	1555.1
30°	1460.6	1455.1	1416.0	1402.2	1380.7	1342.5	1358.9	1383.3	1385.4	1423.6	1495.4
32.5°	1430.3	1416.4	1373.2	1353.0	1326.1	1281.6	1290.4	1315.2	1318.6	1357.2	1431.1
35°	1391.2	1382.0	1328.7	1294.2	1267.7	1219.0	1228.3	1245.5	1250.5	1288.3	1363.5
37.5°	1354.3	1339.6	1282.9	1240.9	1206.8	1155.6	1158.1	1175.8	1180.8	1219.0	1293.4
40°	1316.1	1295.0	1234.1	1185.0	1145.9	1092.2	1089.2	1107.7	1111.5	1148.9	1216.1
42.5°	1275.3	1250.1	1181.6	1127.9	1082.9	1028.3	1022.4	1038.4	1042.6	1079.1	1145.1
45°	1234.1	1203.9	1127.9	1069.1	1019.9	964.0	958.2	970.3	976.6	1011.1	1074.5
47.5°	1190.5	1155.2	1072.4	1006.9	956.1	900.2	893.1	905.2	910.3	944.3	1004.4
50°	1144.7	1101.8	1015.3	943.0	892.6	837.6	827.1	841.4	846.0	877.9	936.7
52.5°	1094.3	1046.8	954.4	878.8	828.4	775.9	763.3	777.1	782.6	813.7	867.8
55°	1040.9	989.7	893.1	819.5	764.9	713.7	703.2	708.6	720.4	749.8	800.2
57.5°	980.8	930.0	828.4	753.6	701.1	651.9	643.1	648.2	659.1	687.6	733.0
60°	917.0	863.2	762.4	687.6	636.8	590.2	582.2	586.8	598.6	624.6	666.6
62.5°	854.0	793.5	694.4	620.0	573.8	530.5	528.4	526.8	537.7	562.9	599.8
65°	777.5	719.6	623.4	552.8	510.8	471.7	463.3	467.1	477.6	500.7	539.4
67.5°	695.6	643.1	550.7	485.6	448.2	413.3	406.2	407.9	418.8	439.0	472.6
70°	608.7	562.5	476.3	418.0	386.5	353.7	349.1	349.5	360.0	377.6	407.0
72.5°	517.5	475.9	401.2	351.2	325.1	301.6	297.4	292.4	302.0	317.1	342.3
75°	424.7	388.1	326.4	285.6	265.1	245.3	241.5	236.5	246.2	259.2	278.9
77.5°	331.0	301.6	253.7	222.2	206.3	191.5	188.2	182.7	192.4	202.0	217.6
80°	239.4	218.0	189.4	156.3	150.8	141.1	137.8	131.9	141.1	147.4	159.2
82.5°	154.6	140.3	123.9	100.8	100.0	92.8	91.2	84.4	92.8	96.6	105.4
85°	78.1	71.4	67.2	51.2	52.9	48.3	47.9	40.7	47.5	49.1	54.2
87.5°	22.3	23.5	21.0	12.6	16.0	15.1	15.1	10.9	15.1	15.1	17.2
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: P838013

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1802.5	1809.6	1811.3	1810.9	1815.5	1840.7	1832.3	1840.7
5°	1806.7	1822.6	1826.8	1832.7	1840.3	1868.9	1859.6	1869.7
7.5°	1809.2	1833.1	1842.4	1853.7	1865.9	1897.8	1890.3	1900.4
10°	1809.2	1840.3	1853.7	1872.6	1889.0	1926.0	1918.8	1930.6
12.5°	1801.6	1841.5	1860.5	1886.9	1907.9	1947.8	1944.9	1953.3
15°	1786.1	1835.2	1861.3	1895.3	1921.4	1965.9	1964.6	1974.7
17.5°	1765.1	1824.3	1855.8	1898.7	1931.4	1981.4	1984.4	1989.8
20°	1738.6	1803.7	1844.9	1897.4	1938.6	1993.6	1997.4	2005.0
22.5°	1703.8	1779.0	1828.5	1892.0	1939.4	1998.7	2005.4	2012.5
25°	1662.6	1749.1	1807.1	1881.5	1935.2	1998.2	2007.5	2013.8
27.5°	1615.6	1710.5	1779.8	1864.7	1923.5	1991.5	2002.9	2010.4
30°	1560.9	1669.3	1748.7	1842.8	1907.5	1978.9	1991.1	1998.7
32.5°	1504.7	1624.0	1711.7	1814.7	1884.4	1958.7	1969.2	1975.1
35°	1443.3	1568.9	1667.2	1778.5	1854.6	1926.4	1934.4	1940.7
37.5°	1376.5	1509.3	1616.4	1737.8	1812.6	1881.5	1888.6	1895.7
40°	1307.7	1446.7	1559.3	1687.8	1762.6	1826.4	1834.0	1839.0
42.5°	1238.3	1377.4	1498.4	1629.0	1703.3	1764.7	1769.3	1774.3
45°	1168.2	1305.6	1429.9	1563.9	1637.4	1694.9	1696.6	1700.8
47.5°	1096.8	1231.2	1354.7	1489.5	1562.2	1614.7	1616.4	1619.8
50°	1024.9	1156.8	1274.5	1409.3	1480.3	1535.7	1528.2	1531.5
52.5°	954.4	1078.7	1198.9	1322.8	1392.9	1442.1	1444.2	1437.4
55°	885.1	1002.3	1112.7	1232.0	1298.8	1337.1	1335.8	1338.3
57.5°	814.9	925.0	1026.2	1135.4	1200.5	1236.7	1244.2	1235.4
60°	743.5	846.8	937.6	1036.3	1099.3	1129.5	1138.4	1130.0
62.5°	672.5	767.5	849.8	935.9	994.3	1031.7	1030.8	1021.6
65°	601.5	687.6	761.2	834.2	885.1	922.5	920.8	912.4
67.5°	536.0	607.0	672.9	732.2	776.3	801.9	810.7	800.6
70°	463.7	525.1	583.0	630.5	667.1	690.2	698.6	689.7
72.5°	391.5	443.6	484.3	530.1	558.3	577.6	586.4	578.0
75°	320.1	362.9	396.1	431.8	451.6	467.9	478.0	469.6
77.5°	250.8	284.0	310.4	336.5	359.2	362.9	371.8	366.3
80°	184.8	208.8	228.1	245.3	261.7	263.4	270.5	267.2
82.5°	123.1	139.0	144.1	162.1	172.6	171.0	178.1	175.6
85°	65.1	74.8	83.6	89.1	94.9	89.5	95.8	93.3
87.5°	21.8	23.1	20.2	28.6	31.5	26.9	30.7	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)