

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: P837900

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-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: P837900
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-LD4-3STD-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

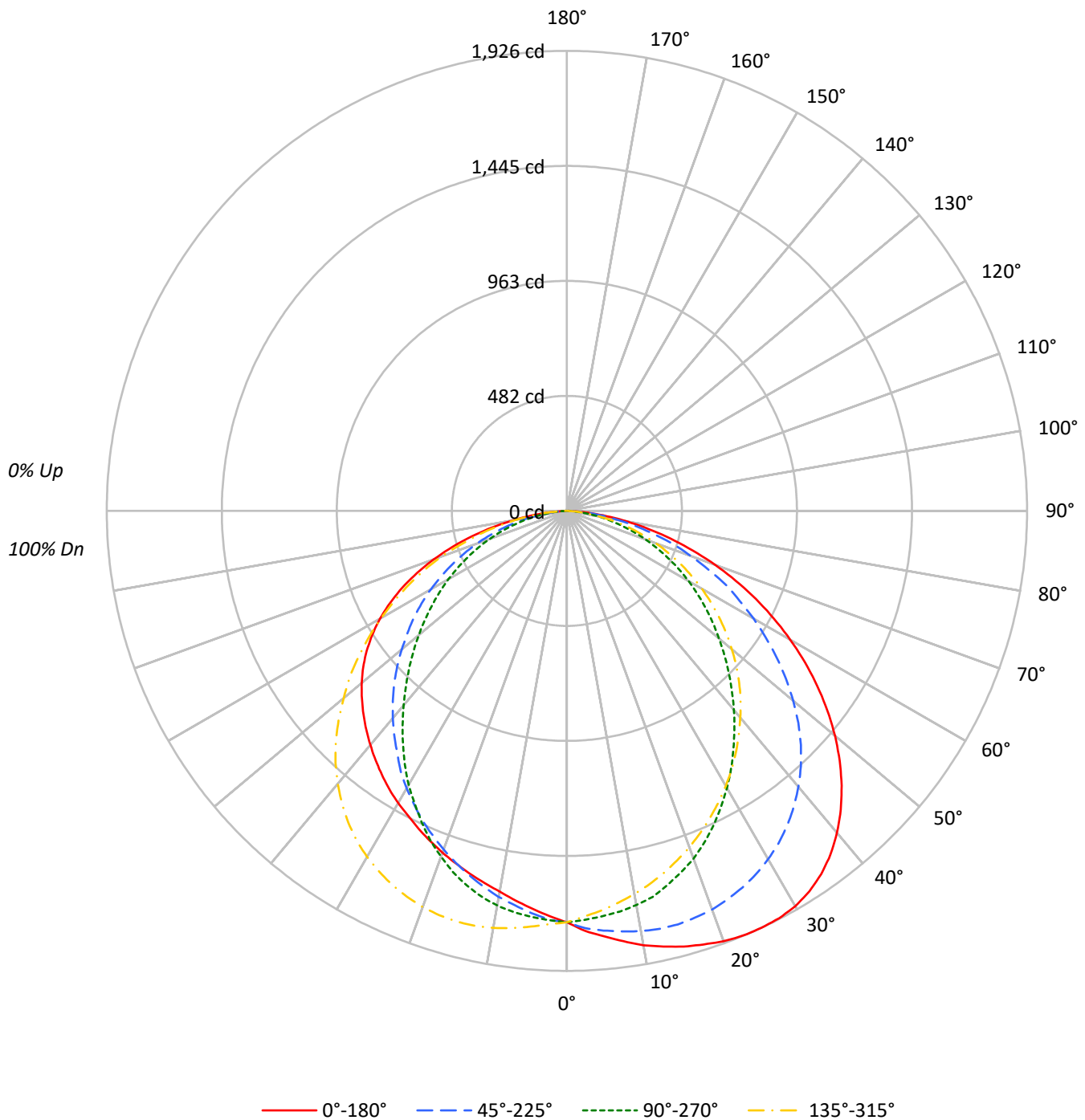
Lumens per Lamp: N/A
Luminaire Lumens: 5053.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

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°	4635	4635	4635	4635
5°	4830	4601	4515	4609
10°	5045	4578	4423	4584
15°	5261	4520	4379	4521
20°	5491	4437	4360	4412
25°	5719	4313	4360	4269
30°	5940	4163	4389	4117
35°	6097	3992	4433	3929
40°	6179	3820	4495	3734
45°	6191	3647	4582	3555
50°	6132	3480	4694	3387
55°	6005	3325	4799	3232
60°	5816	3164	4863	3081
65°	5556	2977	4837	2909
70°	5190	2759	4666	2709
75°	4670	2460	4282	2447
80°	3959	2061	3598	2092
85°	2754	1365	2282	1402

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.2
10°-20°	473.5	9.4
20°-30°	725.7	14.4
30°-40°	882.4	17.5
40°-50°	917.3	18.2
50°-60°	828.6	16.4
60°-70°	629.9	12.5
70°-80°	351.2	7.0
80°-90°	80.9	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°	1362.7	27.0
0°-40°	2245.1	44.4
0°-60°	3991.0	79.0
0°-90°	5053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1722	1722	1722	1722	1722	
5°	1788	1703	1671	1706	1788	172
15°	1889	1622	1572	1623	1889	535
25°	1926	1453	1468	1438	1926	890
35°	1856	1215	1350	1196	1856	1159
45°	1627	958	1204	934	1627	1252
55°	1280	709	1023	689	1280	1143
65°	873	468	760	457	873	862
75°	449	237	412	235	449	477
85°	89	44	74	45	89	112
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1760.5	1734.7	1735.2	1757.6	1740.4	1748.8	1724.7	1733.9	1731.1	1733.1	1713.5
5°	1788.2	1760.5	1760.1	1779.3	1760.1	1763.7	1733.1	1739.2	1730.3	1724.7	1703.4
7.5°	1817.5	1789.8	1787.0	1803.9	1778.5	1775.7	1742.0	1742.0	1725.9	1711.9	1691.8
10°	1846.4	1817.9	1814.3	1827.2	1795.8	1786.6	1745.6	1739.2	1717.9	1697.0	1675.3
12.5°	1868.1	1839.2	1836.4	1844.4	1809.1	1792.2	1745.6	1733.1	1701.8	1672.5	1655.6
15°	1888.6	1858.9	1851.3	1855.3	1814.7	1792.2	1740.0	1720.7	1680.5	1641.9	1622.3
17.5°	1903.1	1874.6	1866.9	1866.5	1817.5	1785.4	1727.9	1701.4	1653.2	1606.6	1586.9
20°	1917.5	1889.0	1879.4	1872.1	1816.7	1776.1	1710.2	1674.5	1618.2	1566.0	1549.5
22.5°	1924.8	1895.4	1885.0	1874.2	1811.5	1759.3	1688.5	1643.2	1578.9	1516.6	1502.9
25°	1926.0	1895.9	1884.6	1868.9	1801.0	1739.2	1660.4	1605.4	1533.5	1464.4	1452.7
27.5°	1922.8	1889.8	1878.6	1859.7	1785.4	1714.7	1627.1	1562.4	1485.3	1408.9	1396.5
30°	1911.5	1878.2	1867.3	1842.8	1763.3	1684.5	1590.5	1514.6	1431.8	1350.7	1339.8
32.5°	1889.0	1856.5	1847.6	1823.1	1739.2	1649.6	1547.9	1463.2	1372.8	1295.2	1279.2
35°	1856.1	1823.5	1817.9	1792.2	1705.4	1607.8	1501.3	1406.9	1310.1	1231.0	1215.3
37.5°	1813.1	1785.8	1777.3	1752.0	1665.6	1560.4	1447.9	1345.9	1246.2	1161.1	1151.4
40°	1758.9	1733.1	1726.7	1704.2	1619.4	1507.8	1390.0	1282.8	1180.3	1101.2	1087.5
42.5°	1697.0	1672.9	1669.3	1646.0	1562.4	1449.5	1327.4	1217.3	1111.6	1035.3	1021.6
45°	1626.7	1603.4	1602.6	1580.5	1500.1	1384.8	1261.5	1151.0	1044.5	965.4	958.2
47.5°	1549.1	1528.3	1528.3	1507.8	1430.6	1313.7	1193.6	1081.9	977.1	907.1	894.3
50°	1464.8	1445.1	1439.1	1429.0	1353.9	1236.2	1122.1	1014.4	910.4	843.7	831.2
52.5°	1374.8	1357.9	1361.9	1343.4	1270.7	1155.4	1049.8	938.5	843.3	782.6	770.2
55°	1280.0	1255.9	1259.5	1252.7	1184.0	1072.3	968.6	875.8	777.4	720.3	708.7
57.5°	1181.5	1150.2	1163.1	1159.0	1091.6	987.1	894.3	804.7	711.9	659.3	648.0
60°	1080.7	1050.6	1063.8	1060.2	996.7	901.9	817.6	734.4	646.8	599.0	587.8
62.5°	977.1	949.3	961.4	958.6	900.3	814.7	741.2	664.9	581.3	538.3	527.9
65°	872.6	846.1	856.9	854.9	801.1	736.0	662.9	593.0	515.4	478.1	467.6
67.5°	765.7	741.2	751.3	751.3	701.9	639.6	584.1	520.3	450.8	418.6	409.0
70°	659.7	636.8	645.6	644.8	603.0	552.4	504.6	447.5	385.3	358.8	350.7
72.5°	552.8	532.7	540.8	539.9	505.0	472.5	425.0	375.6	321.4	300.1	292.9
75°	449.2	430.3	437.9	437.1	408.6	378.0	346.3	305.3	258.7	243.9	236.6
77.5°	350.3	331.0	337.5	337.5	316.6	294.5	269.2	237.4	204.5	188.4	183.2
80°	255.5	246.3	243.1	243.5	229.4	214.9	202.1	171.5	147.4	136.6	133.0
82.5°	167.9	160.3	157.1	157.9	149.9	141.0	133.0	111.7	95.6	89.2	87.2
85°	89.2	83.6	80.8	82.8	81.2	76.3	72.3	57.9	47.8	45.4	44.2
87.5°	28.1	24.5	22.5	29.7	25.3	22.5	21.7	17.3	13.3	13.3	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1719.9	1719.9	1704.2	1700.6	1699.0	1701.0	1685.3	1682.5	1705.0	1697.4	1680.1
5°	1706.2	1705.4	1683.3	1679.3	1679.3	1676.9	1659.2	1655.2	1677.7	1671.3	1652.4
7.5°	1689.4	1686.9	1660.8	1658.0	1654.0	1652.4	1632.7	1629.9	1649.2	1645.2	1627.5
10°	1668.9	1666.5	1635.5	1633.5	1629.1	1625.9	1607.4	1605.4	1625.1	1618.6	1604.6
12.5°	1641.9	1637.5	1605.8	1603.8	1600.2	1599.0	1580.9	1580.1	1601.8	1595.3	1580.5
15°	1606.6	1603.0	1567.6	1568.4	1568.8	1568.8	1554.4	1553.6	1574.9	1572.0	1556.0
17.5°	1567.6	1562.8	1529.1	1531.5	1534.3	1537.5	1526.2	1528.3	1550.7	1547.1	1532.7
20°	1523.4	1518.6	1485.7	1492.5	1498.5	1504.9	1497.7	1503.3	1524.2	1522.6	1511.8
22.5°	1474.0	1469.2	1438.7	1449.1	1459.2	1471.2	1468.0	1474.4	1496.5	1496.1	1486.5
25°	1413.8	1415.0	1388.0	1400.9	1417.8	1434.6	1435.8	1446.3	1470.8	1468.4	1459.6
27.5°	1357.5	1359.1	1330.6	1352.3	1374.8	1396.5	1401.7	1416.2	1441.1	1439.1	1431.4
30°	1298.5	1300.5	1272.7	1302.5	1329.8	1356.3	1367.6	1387.2	1412.5	1412.5	1404.5
32.5°	1237.0	1240.6	1211.7	1251.4	1283.2	1314.1	1333.8	1354.3	1383.2	1382.4	1375.6
35°	1173.9	1177.9	1151.4	1202.0	1233.8	1271.5	1296.0	1323.4	1349.1	1349.5	1344.3
37.5°	1109.6	1114.5	1090.3	1145.8	1181.9	1226.5	1257.9	1285.2	1313.7	1315.3	1310.5
40°	1045.8	1051.0	1030.1	1083.5	1129.3	1179.1	1215.3	1247.4	1278.8	1279.6	1276.4
42.5°	981.9	987.5	971.8	1024.1	1075.9	1129.3	1171.9	1208.5	1240.6	1242.6	1239.0
45°	919.6	924.4	913.2	970.2	1020.0	1078.3	1127.3	1168.7	1201.2	1204.0	1202.8
47.5°	857.7	862.2	852.1	904.3	961.8	1023.7	1080.3	1126.1	1160.7	1163.9	1163.1
50°	797.1	800.7	789.8	844.5	901.5	967.4	1026.5	1079.5	1118.1	1121.3	1120.9
52.5°	736.8	740.4	731.2	788.6	840.5	910.0	974.2	1031.7	1069.9	1074.7	1075.5
55°	678.6	680.2	672.9	728.0	778.2	850.9	924.8	980.7	1018.8	1022.9	1025.3
57.5°	620.3	620.7	614.7	667.3	715.5	789.8	867.4	926.0	962.2	966.2	969.8
60°	562.4	562.0	555.2	606.2	652.4	726.0	806.7	865.0	899.9	903.5	908.4
62.5°	505.0	503.8	497.8	544.8	588.2	660.9	742.0	798.3	831.6	834.0	840.5
65°	447.9	446.7	441.1	484.5	523.9	593.4	672.9	726.4	756.5	759.7	758.5
67.5°	391.7	389.3	384.9	423.8	459.6	523.9	600.2	651.2	676.1	679.0	686.6
70°	335.5	332.6	322.6	364.0	395.3	452.8	523.9	569.3	590.2	593.0	591.8
72.5°	280.0	277.2	266.4	304.5	331.0	381.3	444.7	482.5	500.6	503.0	503.0
75°	226.2	224.6	217.7	246.7	268.8	309.7	363.6	394.9	409.0	411.8	411.0
77.5°	174.4	173.2	166.3	191.2	208.5	239.0	282.4	306.9	317.4	320.6	327.4
80°	124.9	124.5	113.7	138.2	145.8	171.5	203.3	222.2	227.8	232.2	237.0
82.5°	79.9	80.3	69.5	90.4	93.6	110.1	129.8	141.4	145.4	149.0	152.7
85°	39.0	40.6	34.6	47.8	48.2	56.6	65.1	69.5	71.1	73.9	77.1
87.5°	10.0	11.7	6.4	13.7	12.1	15.7	18.1	19.3	18.9	20.9	22.1
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: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1685.7	1698.6	1692.2	1713.1	1721.1	1708.2	1730.7	1731.1	1715.1	1733.9	1744.4
5°	1659.6	1672.9	1668.9	1690.6	1700.6	1689.4	1716.7	1721.9	1706.2	1727.5	1744.4
7.5°	1633.1	1648.8	1643.6	1665.6	1677.7	1668.9	1698.2	1706.6	1694.6	1717.9	1740.4
10°	1610.2	1623.5	1617.8	1641.1	1651.6	1644.4	1673.3	1689.0	1677.7	1706.2	1733.1
12.5°	1587.7	1598.6	1592.1	1611.4	1621.5	1612.2	1647.6	1662.0	1654.0	1683.7	1718.3
15°	1558.8	1570.8	1562.0	1579.3	1586.9	1578.9	1607.8	1632.7	1622.7	1655.2	1693.4
17.5°	1536.7	1543.5	1531.5	1545.1	1549.5	1538.7	1568.0	1592.5	1585.3	1620.7	1664.8
20°	1512.2	1517.8	1500.9	1508.6	1508.2	1494.5	1521.4	1545.5	1540.7	1579.7	1629.9
22.5°	1484.9	1487.7	1468.0	1469.6	1468.8	1446.3	1470.4	1494.9	1492.9	1532.3	1588.5
25°	1455.9	1456.3	1431.0	1430.2	1421.4	1394.9	1416.2	1443.9	1437.9	1480.4	1539.5
27.5°	1427.4	1423.4	1392.9	1385.6	1371.6	1339.8	1358.7	1383.6	1380.0	1421.8	1487.3
30°	1396.9	1391.7	1354.3	1341.0	1320.5	1284.0	1299.7	1323.0	1325.0	1361.5	1430.2
32.5°	1368.0	1354.7	1313.3	1294.0	1268.3	1225.7	1234.2	1257.9	1261.1	1298.0	1368.8
35°	1330.6	1321.8	1270.7	1237.8	1212.5	1165.9	1174.7	1191.2	1196.0	1232.2	1304.1
37.5°	1295.2	1281.2	1226.9	1186.8	1154.2	1105.2	1107.6	1124.5	1129.3	1165.9	1237.0
40°	1258.7	1238.6	1180.3	1133.3	1096.0	1044.5	1041.7	1059.4	1063.0	1098.8	1163.1
42.5°	1219.7	1195.6	1130.1	1078.7	1035.7	983.5	977.9	993.1	997.1	1032.1	1095.2
45°	1180.3	1151.4	1078.7	1022.4	975.4	922.0	916.4	928.0	934.1	967.0	1027.7
47.5°	1138.6	1104.8	1025.7	963.0	914.4	860.9	854.1	865.8	870.6	903.1	960.6
50°	1094.8	1053.8	971.0	901.9	853.7	801.1	791.0	804.7	809.1	839.7	895.9
52.5°	1046.6	1001.2	912.8	840.5	792.2	742.0	730.0	743.2	748.5	778.2	830.0
55°	995.5	946.5	854.1	783.8	731.6	682.6	672.5	677.7	689.0	717.1	765.3
57.5°	938.1	889.5	792.2	720.7	670.5	623.5	615.1	619.9	630.3	657.7	701.1
60°	877.0	825.6	729.2	657.7	609.1	564.5	556.8	561.2	572.5	597.4	637.6
62.5°	816.8	758.9	664.1	593.0	548.8	507.4	505.4	503.8	514.2	538.3	573.7
65°	743.6	688.2	596.2	528.7	488.5	451.2	443.1	446.7	456.8	478.9	515.8
67.5°	665.3	615.1	526.7	464.4	428.7	395.3	388.5	390.1	400.5	419.8	452.0
70°	582.1	537.9	455.6	399.7	369.6	338.3	333.9	334.3	344.3	361.2	389.3
72.5°	495.0	455.2	383.7	335.9	311.0	288.5	284.4	279.6	288.9	303.3	327.4
75°	406.2	371.2	312.2	273.2	253.5	234.6	231.0	226.2	235.4	247.9	266.8
77.5°	316.6	288.5	242.7	212.5	197.3	183.2	180.0	174.8	184.0	193.2	208.1
80°	229.0	208.5	181.2	149.5	144.2	135.0	131.8	126.1	135.0	141.0	152.3
82.5°	147.8	134.2	118.5	96.4	95.6	88.8	87.2	80.8	88.8	92.4	100.8
85°	74.7	68.3	64.3	49.0	50.6	46.2	45.8	39.0	45.4	47.0	51.8
87.5°	21.3	22.5	20.1	12.1	15.3	14.5	14.5	10.4	14.5	14.5	16.5
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: P837900

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1723.9	1730.7	1732.3	1731.9	1736.4	1760.5	1752.4	1760.5
5°	1727.9	1743.2	1747.2	1752.8	1760.1	1787.4	1778.5	1788.2
7.5°	1730.3	1753.2	1762.1	1772.9	1784.6	1815.1	1807.9	1817.5
10°	1730.3	1760.1	1772.9	1791.0	1806.7	1842.0	1835.2	1846.4
12.5°	1723.1	1761.3	1779.3	1804.7	1824.7	1862.9	1860.1	1868.1
15°	1708.2	1755.2	1780.1	1812.7	1837.6	1880.2	1879.0	1888.6
17.5°	1688.1	1744.8	1774.9	1815.9	1847.2	1895.0	1897.9	1903.1
20°	1662.8	1725.1	1764.5	1814.7	1854.1	1906.7	1910.3	1917.5
22.5°	1629.5	1701.4	1748.8	1809.5	1854.9	1911.5	1917.9	1924.8
25°	1590.1	1672.9	1728.3	1799.4	1850.9	1911.1	1920.0	1926.0
27.5°	1545.1	1635.9	1702.2	1783.4	1839.6	1904.7	1915.5	1922.8
30°	1492.9	1596.5	1672.5	1762.5	1824.3	1892.6	1904.3	1911.5
32.5°	1439.1	1553.2	1637.1	1735.6	1802.2	1873.4	1883.4	1889.0
35°	1380.4	1500.5	1594.5	1701.0	1773.7	1842.4	1850.1	1856.1
37.5°	1316.5	1443.5	1545.9	1662.0	1733.5	1799.4	1806.3	1813.1
40°	1250.6	1383.6	1491.3	1614.2	1685.7	1746.8	1754.0	1758.9
42.5°	1184.4	1317.3	1433.0	1558.0	1629.1	1687.7	1692.2	1697.0
45°	1117.3	1248.6	1367.6	1495.7	1566.0	1621.1	1622.7	1626.7
47.5°	1049.0	1177.5	1295.6	1424.6	1494.1	1544.3	1545.9	1549.1
50°	980.3	1106.4	1218.9	1347.9	1415.8	1468.8	1461.6	1464.8
52.5°	912.8	1031.7	1146.6	1265.1	1332.2	1379.2	1381.2	1374.8
55°	846.5	958.6	1064.2	1178.3	1242.2	1278.8	1277.6	1280.0
57.5°	779.4	884.7	981.5	1085.9	1148.2	1182.7	1190.0	1181.5
60°	711.1	809.9	896.7	991.1	1051.4	1080.3	1088.7	1080.7
62.5°	643.2	734.0	812.7	895.1	950.9	986.7	985.9	977.1
65°	575.3	657.7	728.0	797.9	846.5	882.2	880.6	872.6
67.5°	512.6	580.5	643.6	700.2	742.4	766.9	775.4	765.7
70°	443.5	502.2	557.6	603.0	638.0	660.1	668.1	659.7
72.5°	374.4	424.2	463.2	507.0	533.9	552.4	560.8	552.8
75°	306.1	347.1	378.8	413.0	431.9	447.5	457.2	449.2
77.5°	239.8	271.6	296.9	321.8	343.5	347.1	355.5	350.3
80°	176.8	199.7	218.1	234.6	250.3	251.9	258.7	255.5
82.5°	117.7	133.0	137.8	155.1	165.1	163.5	170.3	167.9
85°	62.3	71.5	79.9	85.2	90.8	85.6	91.6	89.2
87.5°	20.9	22.1	19.3	27.3	30.1	25.7	29.3	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)