

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: P838058

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-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: P838058
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

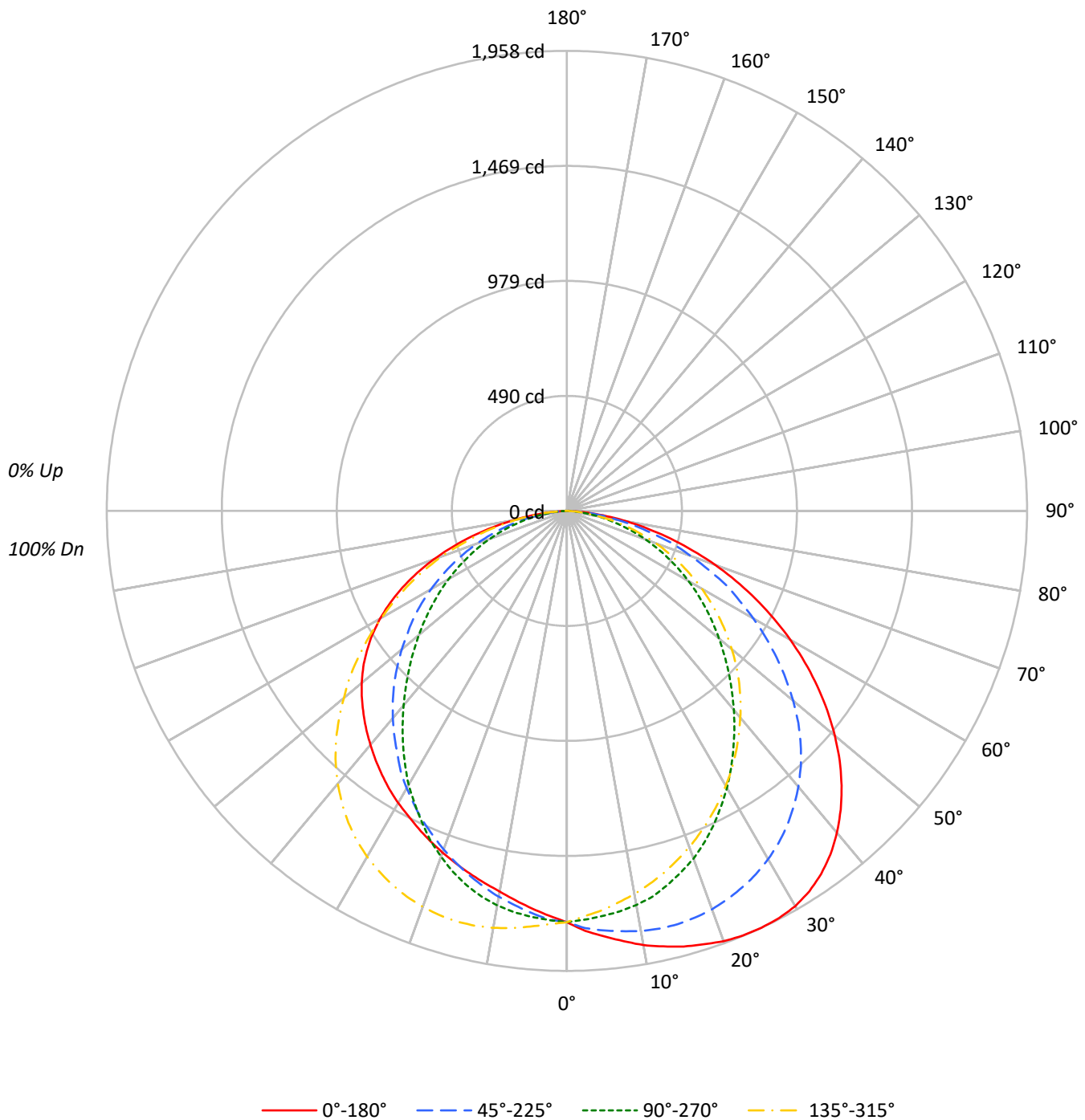
Lumens per Lamp: N/A
Luminaire Lumens: 5135.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-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°	2355	2355	2355	2355
5°	2455	2338	2294	2342
10°	2564	2326	2248	2330
15°	2674	2297	2226	2297
20°	2791	2255	2216	2242
25°	2906	2192	2216	2170
30°	3018	2116	2230	2092
35°	3098	2029	2253	1997
40°	3140	1941	2284	1898
45°	3146	1853	2328	1806
50°	3116	1768	2385	1721
55°	3052	1690	2439	1643
60°	2956	1608	2471	1566
65°	2824	1513	2458	1478
70°	2638	1402	2371	1376
75°	2373	1250	2176	1244
80°	2012	1048	1829	1063
85°	1399	693	1159	712

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	3.2
10°-20°	481.3	9.4
20°-30°	737.5	14.4
30°-40°	896.8	17.5
40°-50°	932.3	18.2
50°-60°	842.1	16.4
60°-70°	640.2	12.5
70°-80°	356.9	7.0
80°-90°	82.2	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°	1385.0	27.0
0°-40°	2281.8	44.4
0°-60°	4056.2	79.0
0°-90°	5135.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5135.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1750	1750	1750	1750	1750	
5°	1817	1731	1699	1734	1817	175
15°	1920	1649	1598	1649	1920	544
25°	1958	1476	1492	1461	1958	904
35°	1886	1235	1372	1216	1886	1178
45°	1653	974	1224	949	1653	1273
55°	1301	720	1040	700	1301	1161
65°	887	475	772	464	887	876
75°	456	240	418	239	456	485
85°	91	45	75	46	91	114
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4
2.5°	1789.2	1763.1	1763.5	1786.4	1768.8	1777.4	1752.9	1762.3	1759.4	1761.5	1741.5
5°	1817.4	1789.2	1788.8	1808.4	1788.8	1792.5	1761.5	1767.6	1758.6	1752.9	1731.2
7.5°	1847.2	1819.0	1816.2	1833.3	1807.6	1804.7	1770.4	1770.4	1754.1	1739.8	1719.4
10°	1876.6	1847.6	1843.9	1857.0	1825.2	1815.8	1774.1	1767.6	1745.9	1724.7	1702.7
12.5°	1898.7	1869.3	1866.4	1874.6	1838.6	1821.5	1774.1	1761.5	1729.6	1699.8	1682.7
15°	1919.5	1889.3	1881.5	1885.6	1844.4	1821.5	1768.4	1748.8	1708.0	1668.8	1648.8
17.5°	1934.2	1905.2	1897.4	1897.0	1847.2	1814.5	1756.2	1729.2	1680.2	1632.8	1612.8
20°	1948.9	1919.9	1910.1	1902.7	1846.4	1805.2	1738.2	1701.9	1644.7	1591.6	1574.9
22.5°	1956.2	1926.4	1915.8	1904.8	1841.1	1788.0	1716.1	1670.0	1604.7	1541.4	1527.5
25°	1957.5	1926.8	1915.4	1899.5	1830.5	1767.6	1687.6	1631.6	1558.5	1488.3	1476.5
27.5°	1954.2	1920.7	1909.3	1890.1	1814.5	1742.7	1653.7	1587.9	1509.5	1432.0	1419.3
30°	1942.8	1908.9	1897.8	1872.9	1792.1	1712.1	1616.5	1539.3	1455.2	1372.7	1361.7
32.5°	1919.9	1886.8	1877.8	1852.9	1767.6	1676.5	1573.2	1487.1	1395.2	1316.4	1300.1
35°	1886.4	1853.3	1847.6	1821.5	1733.3	1634.1	1525.9	1429.9	1331.5	1251.1	1235.1
37.5°	1842.7	1815.0	1806.4	1780.7	1692.9	1585.9	1471.6	1367.8	1266.6	1180.0	1170.2
40°	1787.6	1761.5	1754.9	1732.1	1645.9	1532.4	1412.8	1303.7	1199.6	1119.2	1105.3
42.5°	1724.7	1700.2	1696.5	1672.9	1587.9	1473.2	1349.1	1237.2	1129.8	1052.2	1038.3
45°	1653.3	1629.6	1628.8	1606.3	1524.6	1407.5	1282.1	1169.8	1061.6	981.2	973.8
47.5°	1574.5	1553.2	1553.2	1532.4	1454.0	1335.2	1213.1	1099.6	993.0	922.0	908.9
50°	1488.7	1468.7	1462.6	1452.4	1376.0	1256.4	1140.4	1031.0	925.2	857.5	844.8
52.5°	1397.2	1380.1	1384.2	1365.4	1291.5	1174.3	1066.9	953.8	857.0	795.4	782.7
55°	1300.9	1276.4	1280.1	1273.1	1203.3	1089.8	984.4	890.1	790.1	732.1	720.3
57.5°	1200.8	1169.0	1182.1	1178.0	1109.4	1003.2	908.9	817.9	723.5	670.0	658.6
60°	1098.4	1067.7	1081.2	1077.5	1013.0	916.7	830.9	746.4	657.4	608.8	597.4
62.5°	993.0	964.8	977.1	974.2	915.0	828.1	753.3	675.8	590.8	547.1	536.5
65°	886.9	859.9	870.9	868.9	814.2	748.0	673.7	602.7	523.9	485.9	475.3
67.5°	778.2	753.3	763.5	763.5	713.3	650.0	593.7	528.8	458.1	425.5	415.7
70°	670.5	647.2	656.2	655.3	612.9	561.4	512.8	454.9	391.6	364.6	356.5
72.5°	561.8	541.4	549.6	548.8	513.2	480.2	432.0	381.8	326.7	305.0	297.7
75°	456.5	437.3	445.1	444.2	415.3	384.2	352.0	310.3	263.0	247.8	240.5
77.5°	356.0	336.5	343.0	343.0	321.8	299.3	273.6	241.3	207.8	191.5	186.2
80°	259.7	250.3	247.0	247.4	233.1	218.4	205.4	174.3	149.9	138.8	135.2
82.5°	170.7	162.9	159.7	160.5	152.3	143.3	135.2	113.5	97.2	90.6	88.6
85°	90.6	84.9	82.1	84.1	82.5	77.6	73.5	58.8	48.6	46.1	44.9
87.5°	28.6	24.9	22.9	30.2	25.7	22.9	22.0	17.6	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4
2.5°	1748.0	1748.0	1732.1	1728.4	1726.8	1728.8	1712.9	1710.0	1732.9	1725.1	1707.6
5°	1734.1	1733.3	1710.8	1706.8	1706.8	1704.3	1686.3	1682.3	1705.1	1698.6	1679.4
7.5°	1717.0	1714.5	1688.0	1685.1	1681.0	1679.4	1659.4	1656.5	1676.1	1672.0	1654.1
10°	1696.1	1693.7	1662.2	1660.2	1655.7	1652.4	1633.7	1631.6	1651.6	1645.1	1630.8
12.5°	1668.8	1664.3	1632.0	1630.0	1626.3	1625.1	1606.7	1605.9	1627.9	1621.4	1606.3
15°	1632.8	1629.2	1593.2	1594.1	1594.5	1594.5	1579.8	1578.9	1600.6	1597.7	1581.4
17.5°	1593.2	1588.3	1554.0	1556.5	1559.3	1562.6	1551.2	1553.2	1576.1	1572.4	1557.7
20°	1548.3	1543.4	1509.9	1516.9	1523.0	1529.5	1522.2	1527.9	1549.1	1547.5	1536.5
22.5°	1498.1	1493.2	1462.2	1472.8	1483.0	1495.2	1492.0	1498.5	1521.0	1520.6	1510.8
25°	1436.9	1438.1	1410.7	1423.8	1440.9	1458.1	1459.3	1469.9	1494.8	1492.4	1483.4
27.5°	1379.7	1381.3	1352.3	1374.4	1397.2	1419.3	1424.6	1439.3	1464.6	1462.6	1454.8
30°	1319.7	1321.7	1293.5	1323.8	1351.5	1378.5	1389.9	1409.9	1435.6	1435.6	1427.5
32.5°	1257.2	1260.9	1231.5	1271.9	1304.2	1335.6	1355.6	1376.4	1405.8	1405.0	1398.1
35°	1193.1	1197.2	1170.2	1221.7	1253.9	1292.3	1317.2	1345.0	1371.1	1371.5	1366.2
37.5°	1127.8	1132.7	1108.2	1164.5	1201.3	1246.6	1278.4	1306.2	1335.2	1336.8	1331.9
40°	1062.8	1068.1	1046.9	1101.2	1147.8	1198.4	1235.1	1267.8	1299.7	1300.5	1297.2
42.5°	997.9	1003.6	987.7	1040.8	1093.5	1147.8	1191.1	1228.2	1260.9	1262.9	1259.2
45°	934.6	939.5	928.1	986.1	1036.7	1095.9	1145.7	1187.8	1220.9	1223.7	1222.5
47.5°	871.7	876.2	866.0	919.1	977.5	1040.4	1098.0	1144.5	1179.6	1182.9	1182.1
50°	810.1	813.8	802.7	858.3	916.3	983.2	1043.2	1097.1	1136.3	1139.6	1139.2
52.5°	748.8	752.5	743.1	801.5	854.2	924.8	990.2	1048.5	1087.3	1092.2	1093.1
55°	689.6	691.3	683.9	739.9	790.9	864.8	939.9	996.7	1035.5	1039.6	1042.0
57.5°	630.4	630.8	624.7	678.2	727.2	802.7	881.5	941.2	977.9	982.0	985.7
60°	571.6	571.2	564.3	616.1	663.1	737.8	819.9	879.1	914.6	918.3	923.2
62.5°	513.2	512.0	505.9	553.7	597.8	671.7	754.2	811.3	845.2	847.7	854.2
65°	455.3	454.0	448.3	492.4	532.4	603.1	683.9	738.2	768.9	772.1	770.9
67.5°	398.1	395.7	391.2	430.8	467.1	532.4	610.0	661.9	687.2	690.0	697.8
70°	340.9	338.1	327.9	369.9	401.8	460.2	532.4	578.6	599.8	602.7	601.4
72.5°	284.6	281.7	270.7	309.5	336.5	387.5	452.0	490.4	508.8	511.2	511.2
75°	229.9	228.2	221.3	250.7	273.2	314.8	369.5	401.4	415.7	418.5	417.7
77.5°	177.2	176.0	169.0	194.4	211.9	242.9	287.0	312.0	322.6	325.8	332.8
80°	127.0	126.6	115.6	140.5	148.2	174.3	206.6	225.8	231.5	236.0	240.9
82.5°	81.3	81.7	70.6	91.9	95.1	111.9	131.9	143.7	147.8	151.5	155.2
85°	39.6	41.2	35.1	48.6	49.0	57.6	66.1	70.6	72.3	75.1	78.4
87.5°	10.2	11.8	6.5	13.9	12.2	15.9	18.4	19.6	19.2	21.2	22.5
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: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4
2.5°	1713.3	1726.3	1719.8	1741.0	1749.2	1736.1	1759.0	1759.4	1743.1	1762.3	1772.9
5°	1686.7	1700.2	1696.1	1718.2	1728.4	1717.0	1744.7	1750.0	1734.1	1755.7	1772.9
7.5°	1659.8	1675.7	1670.4	1692.9	1705.1	1696.1	1725.9	1734.5	1722.3	1745.9	1768.8
10°	1636.5	1650.0	1644.3	1668.0	1678.6	1671.2	1700.6	1716.5	1705.1	1734.1	1761.5
12.5°	1613.7	1624.7	1618.1	1637.7	1648.0	1638.6	1674.5	1689.2	1681.0	1711.2	1746.4
15°	1584.3	1596.5	1587.5	1605.1	1612.8	1604.7	1634.1	1659.4	1649.2	1682.3	1721.0
17.5°	1561.8	1568.7	1556.5	1570.4	1574.9	1563.8	1593.6	1618.6	1611.2	1647.1	1692.1
20°	1536.9	1542.6	1525.5	1533.2	1532.8	1518.9	1546.3	1570.8	1565.9	1605.5	1656.5
22.5°	1509.1	1512.0	1492.0	1493.6	1492.8	1469.9	1494.4	1519.3	1517.3	1557.3	1614.5
25°	1479.7	1480.1	1454.4	1453.6	1444.6	1417.7	1439.3	1467.5	1461.4	1504.6	1564.7
27.5°	1450.7	1446.7	1415.6	1408.3	1394.0	1361.7	1380.9	1406.2	1402.6	1445.0	1511.6
30°	1419.7	1414.4	1376.4	1363.0	1342.1	1305.0	1320.9	1344.6	1346.6	1383.8	1453.6
32.5°	1390.3	1376.8	1334.8	1315.2	1289.0	1245.8	1254.3	1278.4	1281.7	1319.3	1391.1
35°	1352.3	1343.4	1291.5	1258.0	1232.3	1184.9	1193.9	1210.6	1215.5	1252.3	1325.4
37.5°	1316.4	1302.1	1247.0	1206.2	1173.1	1123.3	1125.7	1142.9	1147.8	1184.9	1257.2
40°	1279.2	1258.8	1199.6	1151.9	1113.9	1061.6	1058.8	1076.7	1080.4	1116.7	1182.1
42.5°	1239.6	1215.1	1148.6	1096.3	1052.6	999.6	993.8	1009.4	1013.4	1049.0	1113.1
45°	1199.6	1170.2	1096.3	1039.2	991.4	937.1	931.4	943.2	949.3	982.8	1044.5
47.5°	1157.2	1122.9	1042.4	978.7	929.3	875.0	868.1	879.9	884.8	917.9	976.3
50°	1112.7	1071.0	986.9	916.7	867.7	814.2	804.0	817.9	822.3	853.4	910.5
52.5°	1063.7	1017.5	927.7	854.2	805.2	754.2	741.9	755.4	760.7	790.9	843.6
55°	1011.8	962.0	868.1	796.6	743.5	693.7	683.5	688.8	700.3	728.8	777.8
57.5°	953.4	904.0	805.2	732.5	681.5	633.7	625.1	630.0	640.6	668.4	712.5
60°	891.3	839.1	741.1	668.4	619.0	573.7	565.9	570.4	581.8	607.2	648.0
62.5°	830.1	771.3	674.9	602.7	557.8	515.7	513.7	512.0	522.6	547.1	583.1
65°	755.8	699.4	605.9	537.3	496.5	458.5	450.4	454.0	464.3	486.7	524.3
67.5°	676.2	625.1	535.3	472.0	435.7	401.8	394.8	396.5	407.1	426.7	459.4
70°	591.6	546.7	463.0	406.3	375.6	343.8	339.3	339.7	349.9	367.1	395.7
72.5°	503.0	462.6	389.9	341.4	316.0	293.2	289.1	284.2	293.6	308.3	332.8
75°	412.8	377.3	317.3	277.7	257.6	238.5	234.8	229.9	239.3	251.9	271.1
77.5°	321.8	293.2	246.6	216.0	200.5	186.2	182.9	177.6	187.0	196.4	211.5
80°	232.7	211.9	184.1	151.9	146.6	137.2	133.9	128.2	137.2	143.3	154.8
82.5°	150.3	136.4	120.5	98.0	97.2	90.2	88.6	82.1	90.2	93.9	102.5
85°	75.9	69.4	65.3	49.8	51.4	47.0	46.5	39.6	46.1	47.8	52.7
87.5°	21.6	22.9	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: P838058

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4	1750.4
2.5°	1752.1	1759.0	1760.6	1760.2	1764.7	1789.2	1781.1	1789.2
5°	1756.2	1771.7	1775.8	1781.5	1788.8	1816.6	1807.6	1817.4
7.5°	1758.6	1781.9	1790.9	1801.9	1813.7	1844.8	1837.4	1847.2
10°	1758.6	1788.8	1801.9	1820.3	1836.2	1872.1	1865.2	1876.6
12.5°	1751.3	1790.0	1808.4	1834.1	1854.6	1893.3	1890.5	1898.7
15°	1736.1	1783.9	1809.2	1842.3	1867.6	1910.9	1909.7	1919.5
17.5°	1715.7	1773.3	1803.9	1845.6	1877.4	1926.0	1928.9	1934.2
20°	1690.0	1753.3	1793.3	1844.4	1884.4	1937.9	1941.5	1948.9
22.5°	1656.1	1729.2	1777.4	1839.0	1885.2	1942.8	1949.3	1956.2
25°	1616.1	1700.2	1756.6	1828.8	1881.1	1942.3	1951.3	1957.5
27.5°	1570.4	1662.7	1730.0	1812.5	1869.7	1935.8	1946.8	1954.2
30°	1517.3	1622.6	1699.8	1791.3	1854.2	1923.6	1935.4	1942.8
32.5°	1462.6	1578.5	1663.9	1763.9	1831.7	1904.0	1914.2	1919.9
35°	1403.0	1525.1	1620.6	1728.8	1802.7	1872.5	1880.3	1886.4
37.5°	1338.0	1467.1	1571.2	1689.2	1761.9	1828.8	1835.8	1842.7
40°	1271.1	1406.2	1515.7	1640.6	1713.3	1775.3	1782.7	1787.6
42.5°	1203.7	1338.9	1456.5	1583.4	1655.7	1715.3	1719.8	1724.7
45°	1135.5	1269.0	1389.9	1520.2	1591.6	1647.5	1649.2	1653.3
47.5°	1066.1	1196.8	1316.8	1447.9	1518.5	1569.6	1571.2	1574.5
50°	996.3	1124.5	1238.8	1369.9	1438.9	1492.8	1485.4	1488.7
52.5°	927.7	1048.5	1165.3	1285.8	1354.0	1401.7	1403.8	1397.2
55°	860.3	974.2	1081.6	1197.6	1262.5	1299.7	1298.4	1300.9
57.5°	792.1	899.1	997.5	1103.7	1167.0	1202.1	1209.4	1200.8
60°	722.7	823.2	911.4	1007.3	1068.6	1098.0	1106.5	1098.4
62.5°	653.7	746.0	826.0	909.7	966.5	1002.8	1002.0	993.0
65°	584.7	668.4	739.9	810.9	860.3	896.7	895.0	886.9
67.5°	521.0	590.0	654.1	711.7	754.6	779.5	788.0	778.2
70°	450.8	510.4	566.7	612.9	648.4	670.9	679.0	670.5
72.5°	380.5	431.2	470.8	515.3	542.6	561.4	570.0	561.8
75°	311.1	352.8	385.0	419.7	438.9	454.9	464.7	456.5
77.5°	243.8	276.0	301.7	327.1	349.1	352.8	361.4	356.0
80°	179.7	202.9	221.7	238.5	254.4	256.0	263.0	259.7
82.5°	119.6	135.2	140.1	157.6	167.8	166.2	173.1	170.7
85°	63.3	72.7	81.3	86.6	92.3	87.0	93.1	90.6
87.5°	21.2	22.5	19.6	27.8	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)