

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: P837797

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-35-120-EDD-90**

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: P837797
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2LO-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

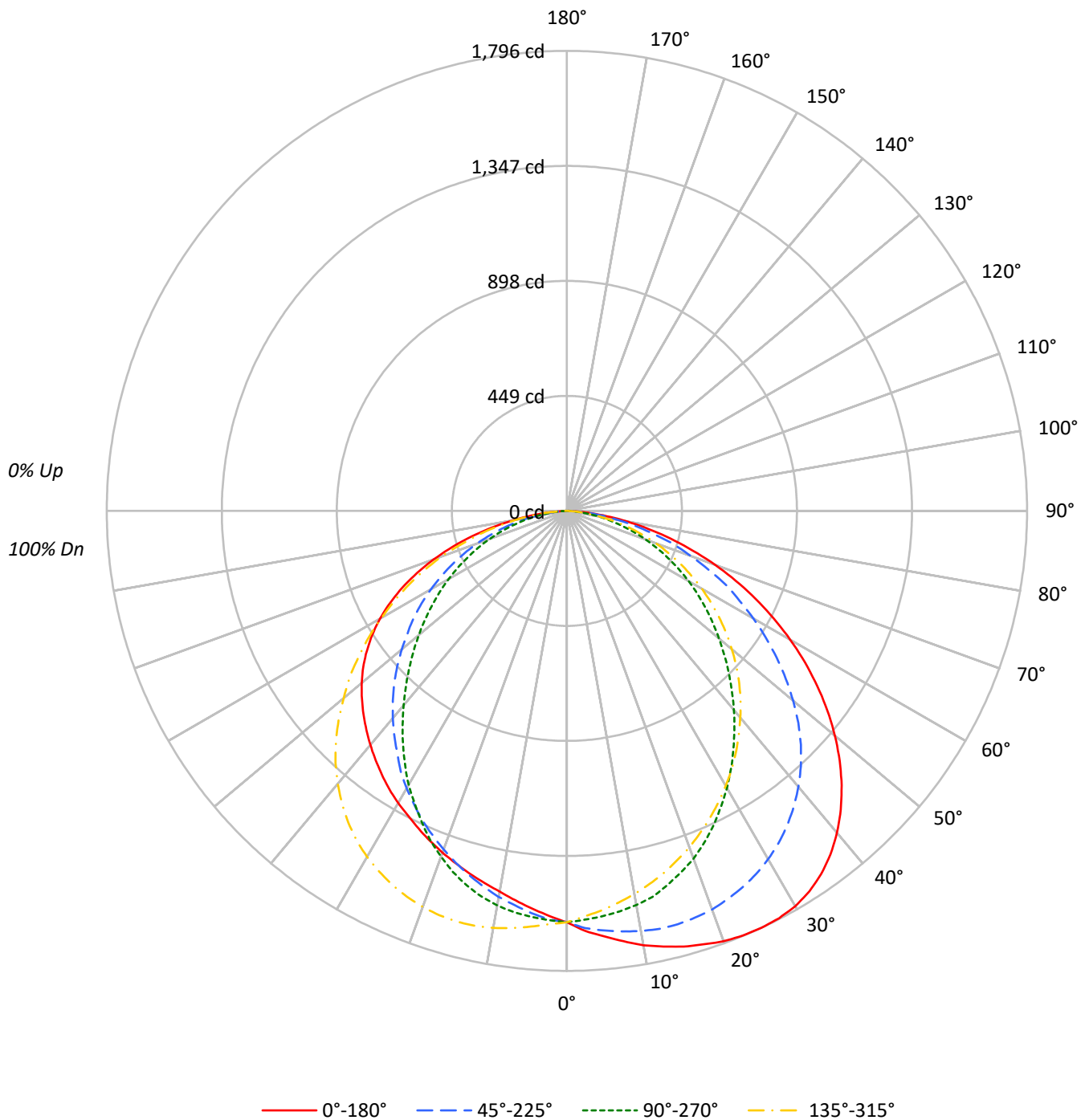
Lumens per Lamp: N/A
Luminaire Lumens: 4711.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	4321	4321	4321	4321
5°	4504	4290	4209	4297
10°	4705	4268	4124	4274
15°	4906	4214	4084	4215
20°	5120	4137	4066	4114
25°	5332	4022	4065	3981
30°	5538	3882	4093	3839
35°	5685	3723	4134	3664
40°	5761	3562	4191	3482
45°	5772	3400	4273	3314
50°	5718	3244	4377	3158
55°	5599	3100	4474	3014
60°	5423	2949	4534	2873
65°	5181	2776	4511	2712
70°	4840	2573	4350	2526
75°	4354	2294	3993	2282
80°	3691	1922	3355	1951
85°	2569	1272	2127	1306

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	3.2
10°-20°	441.5	9.4
20°-30°	676.6	14.4
30°-40°	822.8	17.5
40°-50°	855.3	18.2
50°-60°	772.6	16.4
60°-70°	587.4	12.5
70°-80°	327.5	7.0
80°-90°	75.4	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°	1270.6	27.0
0°-40°	2093.4	44.4
0°-60°	3721.3	79.0
0°-90°	4711.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1606	1606	1606	1606	1606	
5°	1667	1588	1558	1591	1667	161
15°	1761	1513	1466	1513	1761	499
25°	1796	1355	1369	1341	1796	829
35°	1731	1133	1258	1115	1731	1081
45°	1517	893	1123	871	1517	1168
55°	1194	661	954	642	1194	1065
65°	814	436	708	426	814	804
75°	419	221	384	220	419	445
85°	83	41	69	42	83	105
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°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1641.5	1617.5	1617.9	1638.9	1622.8	1630.6	1608.2	1616.8	1614.1	1616.0	1597.7
5°	1667.3	1641.5	1641.1	1659.1	1641.1	1644.5	1616.0	1621.6	1613.4	1608.2	1588.3
7.5°	1694.7	1668.8	1666.2	1682.0	1658.4	1655.7	1624.3	1624.3	1609.3	1596.2	1577.4
10°	1721.7	1695.1	1691.7	1703.7	1674.5	1665.8	1627.6	1621.6	1601.8	1582.3	1562.1
12.5°	1741.9	1714.9	1712.3	1719.8	1686.8	1671.1	1627.6	1616.0	1586.8	1559.5	1543.7
15°	1761.0	1733.3	1726.2	1729.9	1692.1	1671.1	1622.4	1604.4	1566.9	1531.0	1512.6
17.5°	1774.5	1747.9	1740.8	1740.4	1694.7	1664.7	1611.2	1586.4	1541.5	1498.0	1479.7
20°	1788.0	1761.4	1752.4	1745.6	1693.9	1656.1	1594.7	1561.3	1508.9	1460.2	1444.8
22.5°	1794.7	1767.4	1757.6	1747.5	1689.1	1640.4	1574.4	1532.1	1472.2	1414.1	1401.4
25°	1795.8	1767.7	1757.2	1742.6	1679.3	1621.6	1548.2	1496.9	1429.8	1365.4	1354.6
27.5°	1792.8	1762.1	1751.6	1734.0	1664.7	1598.8	1517.1	1456.8	1384.9	1313.7	1302.1
30°	1782.3	1751.3	1741.1	1718.3	1644.1	1570.7	1483.0	1412.2	1335.1	1259.4	1249.3
32.5°	1761.4	1731.0	1722.8	1699.9	1621.6	1538.1	1443.3	1364.3	1280.0	1207.7	1192.7
35°	1730.6	1700.3	1695.1	1671.1	1590.2	1499.1	1399.9	1311.8	1221.6	1147.8	1133.2
37.5°	1690.6	1665.1	1657.2	1633.6	1553.1	1454.9	1350.1	1254.9	1162.0	1082.6	1073.6
40°	1640.0	1616.0	1610.0	1589.1	1510.0	1405.9	1296.1	1196.1	1100.6	1026.8	1014.0
42.5°	1582.3	1559.8	1556.5	1534.7	1456.8	1351.6	1237.7	1135.0	1036.5	965.3	952.6
45°	1516.8	1495.0	1494.3	1473.7	1398.8	1291.2	1176.2	1073.2	974.0	900.2	893.4
47.5°	1444.5	1425.0	1425.0	1405.9	1333.9	1224.9	1112.9	1008.8	911.0	845.8	833.9
50°	1365.8	1347.4	1341.8	1332.4	1262.4	1152.6	1046.3	945.9	848.8	786.7	775.0
52.5°	1281.9	1266.1	1269.9	1252.7	1184.9	1077.3	978.8	875.1	786.3	729.7	718.1
55°	1193.5	1171.0	1174.4	1168.0	1103.9	999.8	903.2	816.6	724.8	671.7	660.8
57.5°	1101.7	1072.5	1084.5	1080.7	1017.8	920.4	833.9	750.3	663.8	614.7	604.2
60°	1007.7	979.6	991.9	988.6	929.4	841.0	762.3	684.8	603.1	558.5	548.0
62.5°	911.0	885.2	896.4	893.8	839.5	759.7	691.1	620.0	542.0	502.0	492.2
65°	813.6	788.9	799.0	797.1	747.0	686.3	618.1	552.9	480.6	445.8	436.0
67.5°	714.0	691.1	700.5	700.5	654.4	596.4	544.7	485.1	420.3	390.3	381.3
70°	615.1	593.7	602.0	601.2	562.3	515.1	470.5	417.3	359.2	334.5	327.0
72.5°	515.4	496.7	504.2	503.5	470.9	440.5	396.3	350.3	299.7	279.8	273.1
75°	418.8	401.2	408.3	407.6	381.0	352.5	322.9	284.7	241.2	227.4	220.6
77.5°	326.7	308.7	314.7	314.7	295.2	274.6	251.0	221.4	190.7	175.7	170.8
80°	238.2	229.6	226.6	227.0	213.9	200.4	188.4	160.0	137.5	127.4	124.0
82.5°	156.6	149.5	146.5	147.2	139.7	131.5	124.0	104.1	89.2	83.2	81.3
85°	83.2	77.9	75.3	77.2	75.7	71.2	67.4	53.9	44.6	42.3	41.2
87.5°	26.2	22.9	21.0	27.7	23.6	21.0	20.2	16.1	12.4	12.4	12.0
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°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1603.7	1603.7	1589.1	1585.7	1584.2	1586.1	1571.4	1568.8	1589.8	1582.7	1566.6
5°	1590.9	1590.2	1569.6	1565.8	1565.8	1563.6	1547.1	1543.3	1564.3	1558.3	1540.7
7.5°	1575.2	1572.9	1548.6	1546.0	1542.2	1540.7	1522.4	1519.7	1537.7	1534.0	1517.5
10°	1556.1	1553.8	1525.0	1523.1	1519.0	1516.0	1498.8	1496.9	1515.3	1509.3	1496.1
12.5°	1531.0	1526.9	1497.3	1495.4	1492.0	1490.9	1474.0	1473.3	1493.5	1487.5	1473.7
15°	1498.0	1494.7	1461.7	1462.4	1462.8	1462.8	1449.3	1448.6	1468.4	1465.8	1450.8
17.5°	1461.7	1457.2	1425.7	1428.0	1430.6	1433.6	1423.1	1425.0	1446.0	1442.6	1429.1
20°	1420.5	1416.0	1385.3	1391.6	1397.3	1403.2	1396.5	1401.8	1421.2	1419.7	1409.6
22.5°	1374.4	1369.9	1341.4	1351.2	1360.5	1371.8	1368.8	1374.8	1395.4	1395.0	1386.0
25°	1318.2	1319.3	1294.2	1306.2	1322.0	1337.7	1338.8	1348.6	1371.4	1369.2	1360.9
27.5°	1265.8	1267.3	1240.7	1260.9	1281.9	1302.1	1307.0	1320.5	1343.7	1341.8	1334.7
30°	1210.7	1212.6	1186.7	1214.5	1239.9	1264.6	1275.1	1293.5	1317.1	1317.1	1309.6
32.5°	1153.4	1156.8	1129.8	1166.9	1196.5	1225.3	1243.7	1262.8	1289.7	1289.0	1282.6
35°	1094.6	1098.3	1073.6	1120.8	1150.4	1185.6	1208.5	1233.9	1257.9	1258.3	1253.4
37.5°	1034.6	1039.1	1016.7	1068.4	1102.1	1143.7	1172.9	1198.3	1224.9	1226.4	1221.9
40°	975.1	980.0	960.5	1010.3	1053.0	1099.4	1133.2	1163.1	1192.3	1193.1	1190.1
42.5°	915.5	920.8	906.2	954.9	1003.2	1053.0	1092.7	1126.8	1156.8	1158.6	1155.3
45°	857.5	862.0	851.5	904.7	951.1	1005.4	1051.1	1089.7	1120.1	1122.7	1121.6
47.5°	799.8	803.9	794.5	843.2	896.8	954.5	1007.3	1050.0	1082.2	1085.2	1084.5
50°	743.2	746.6	736.5	787.4	840.6	902.0	957.1	1006.5	1042.5	1045.5	1045.1
52.5°	687.0	690.4	681.8	735.3	783.7	848.5	908.4	962.0	997.6	1002.1	1002.8
55°	632.7	634.2	627.5	678.8	725.6	793.4	862.3	914.4	950.0	953.7	956.0
57.5°	578.4	578.8	573.1	622.2	667.2	736.5	808.8	863.5	897.2	900.9	904.3
60°	524.4	524.1	517.7	565.3	608.3	676.9	752.2	806.5	839.1	842.5	847.0
62.5°	470.9	469.7	464.1	508.0	548.4	616.2	691.9	744.3	775.4	777.7	783.7
65°	417.7	416.6	411.3	451.8	488.5	553.3	627.5	677.3	705.4	708.4	707.2
67.5°	365.2	363.0	358.9	395.2	428.5	488.5	559.7	607.2	630.5	633.1	640.2
70°	312.8	310.2	300.8	339.4	368.6	422.2	488.5	530.8	550.3	552.9	551.8
72.5°	261.1	258.5	248.4	283.9	308.7	355.5	414.7	449.9	466.8	469.0	469.0
75°	210.9	209.4	203.0	230.0	250.6	288.8	339.0	368.2	381.3	384.0	383.2
77.5°	162.6	161.5	155.1	178.3	194.4	222.9	263.3	286.2	295.9	298.9	305.3
80°	116.5	116.1	106.0	128.9	136.0	160.0	189.5	207.2	212.4	216.5	221.0
82.5°	74.5	74.9	64.8	84.3	87.3	102.6	121.0	131.9	135.6	139.0	142.3
85°	36.3	37.8	32.2	44.6	45.0	52.8	60.7	64.8	66.3	68.9	71.9
87.5°	9.4	10.9	6.0	12.7	11.2	14.6	16.9	18.0	17.6	19.5	20.6
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°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1571.8	1583.8	1577.8	1597.3	1604.8	1592.8	1613.8	1614.1	1599.2	1616.8	1626.5
5°	1547.5	1559.8	1556.1	1576.3	1585.7	1575.2	1600.7	1605.5	1590.9	1610.8	1626.5
7.5°	1522.7	1537.4	1532.5	1553.1	1564.3	1556.1	1583.4	1591.3	1580.1	1601.8	1622.8
10°	1501.4	1513.8	1508.5	1530.2	1540.0	1533.2	1560.2	1574.8	1564.3	1590.9	1616.0
12.5°	1480.4	1490.5	1484.5	1502.5	1511.9	1503.3	1536.2	1549.7	1542.2	1569.9	1602.2
15°	1453.4	1464.7	1456.4	1472.5	1479.7	1472.2	1499.1	1522.4	1513.0	1543.3	1578.9
17.5°	1432.8	1439.2	1428.0	1440.7	1444.8	1434.7	1462.1	1484.9	1478.2	1511.1	1552.3
20°	1410.0	1415.2	1399.5	1406.6	1406.2	1393.5	1418.6	1441.1	1436.6	1472.9	1519.7
22.5°	1384.5	1387.1	1368.8	1370.3	1369.5	1348.6	1371.0	1393.9	1392.0	1428.7	1481.2
25°	1357.5	1357.9	1334.3	1333.6	1325.3	1300.6	1320.5	1346.3	1340.7	1380.4	1435.5
27.5°	1331.0	1327.2	1298.7	1292.0	1278.9	1249.3	1266.9	1290.1	1286.7	1325.7	1386.8
30°	1302.5	1297.6	1262.8	1250.4	1231.3	1197.2	1211.8	1233.6	1235.4	1269.5	1333.6
32.5°	1275.5	1263.1	1224.6	1206.6	1182.6	1142.9	1150.8	1172.9	1175.9	1210.3	1276.3
35°	1240.7	1232.4	1184.9	1154.1	1130.5	1087.1	1095.3	1110.7	1115.2	1148.9	1215.9
37.5°	1207.7	1194.6	1144.0	1106.6	1076.2	1030.5	1032.8	1048.5	1053.0	1087.1	1153.4
40°	1173.6	1154.9	1100.6	1056.7	1021.9	974.0	971.3	987.8	991.2	1024.5	1084.5
42.5°	1137.3	1114.8	1053.7	1005.8	965.7	917.0	911.8	926.0	929.8	962.3	1021.2
45°	1100.6	1073.6	1005.8	953.4	909.5	859.7	854.5	865.3	870.9	901.7	958.2
47.5°	1061.6	1030.1	956.4	897.9	852.6	802.8	796.4	807.3	811.8	842.1	895.7
50°	1020.8	982.6	905.4	841.0	796.0	747.0	737.6	750.3	754.4	782.9	835.4
52.5°	975.8	933.5	851.1	783.7	738.7	691.9	680.6	693.0	697.9	725.6	773.9
55°	928.3	882.6	796.4	730.8	682.1	636.4	627.1	631.9	642.4	668.7	713.6
57.5°	874.7	829.4	738.7	672.0	625.2	581.4	573.5	578.0	587.7	613.2	653.7
60°	817.8	769.8	679.9	613.2	567.9	526.3	519.2	523.3	533.8	557.0	594.5
62.5°	761.6	707.6	619.2	552.9	511.7	473.1	471.2	469.7	479.5	502.0	534.9
65°	693.4	641.7	555.9	493.0	455.5	420.7	413.2	416.6	425.9	446.5	481.0
67.5°	620.3	573.5	491.1	433.0	399.7	368.6	362.2	363.7	373.5	391.5	421.4
70°	542.8	501.6	424.8	372.7	344.6	315.4	311.3	311.7	321.0	336.8	363.0
72.5°	461.5	424.4	357.7	313.2	289.9	269.0	265.2	260.7	269.3	282.8	305.3
75°	378.7	346.1	291.1	254.7	236.4	218.8	215.4	210.9	219.5	231.1	248.7
77.5°	295.2	269.0	226.3	198.2	183.9	170.8	167.8	163.0	171.6	180.2	194.0
80°	213.5	194.4	168.9	139.4	134.5	125.9	122.9	117.6	125.9	131.5	142.0
82.5°	137.9	125.1	110.5	89.9	89.2	82.8	81.3	75.3	82.8	86.2	94.0
85°	69.7	63.7	59.9	45.7	47.2	43.1	42.7	36.3	42.3	43.8	48.3
87.5°	19.9	21.0	18.7	11.2	14.2	13.5	13.5	9.7	13.5	13.5	15.4
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: P837797

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1607.4	1613.8	1615.3	1614.9	1619.0	1641.5	1634.0	1641.5
5°	1611.2	1625.4	1629.1	1634.4	1641.1	1666.6	1658.4	1667.3
7.5°	1613.4	1634.8	1643.0	1653.1	1664.0	1692.4	1685.7	1694.7
10°	1613.4	1641.1	1653.1	1670.0	1684.6	1717.5	1711.2	1721.7
12.5°	1606.7	1642.2	1659.1	1682.7	1701.4	1737.0	1734.4	1741.9
15°	1592.8	1636.6	1659.8	1690.2	1713.4	1753.1	1752.0	1761.0
17.5°	1574.1	1626.9	1655.0	1693.2	1722.4	1767.0	1769.6	1774.5
20°	1550.5	1608.5	1645.2	1692.1	1728.8	1777.8	1781.2	1788.0
22.5°	1519.4	1586.4	1630.6	1687.2	1729.5	1782.3	1788.3	1794.7
25°	1482.7	1559.8	1611.5	1677.8	1725.8	1782.0	1790.2	1795.8
27.5°	1440.7	1525.4	1587.2	1662.8	1715.3	1776.0	1786.1	1792.8
30°	1392.0	1488.7	1559.5	1643.4	1701.1	1764.7	1775.6	1782.3
32.5°	1341.8	1448.2	1526.5	1618.3	1680.5	1746.8	1756.1	1761.4
35°	1287.1	1399.1	1486.8	1586.1	1653.9	1717.9	1725.0	1730.6
37.5°	1227.6	1345.9	1441.5	1549.7	1616.4	1677.8	1684.2	1690.6
40°	1166.1	1290.1	1390.5	1505.1	1571.8	1628.8	1635.5	1640.0
42.5°	1104.3	1228.3	1336.2	1452.7	1519.0	1573.7	1577.8	1582.3
45°	1041.8	1164.3	1275.1	1394.6	1460.2	1511.5	1513.0	1516.8
47.5°	978.1	1098.0	1208.1	1328.3	1393.1	1440.0	1441.5	1444.5
50°	914.0	1031.6	1136.5	1256.8	1320.1	1369.5	1362.8	1365.8
52.5°	851.1	962.0	1069.1	1179.6	1242.2	1286.0	1287.9	1281.9
55°	789.3	893.8	992.3	1098.7	1158.3	1192.3	1191.2	1193.5
57.5°	726.7	824.9	915.1	1012.5	1070.6	1102.8	1109.6	1101.7
60°	663.0	755.2	836.1	924.1	980.3	1007.3	1015.2	1007.7
62.5°	599.7	684.4	757.8	834.6	886.7	920.0	919.3	911.0
65°	536.4	613.2	678.8	744.0	789.3	822.6	821.1	813.6
67.5°	478.0	541.3	600.1	652.9	692.3	715.1	723.0	714.0
70°	413.6	468.2	519.9	562.3	594.9	615.5	623.0	615.1
72.5°	349.1	395.6	431.9	472.7	497.8	515.1	522.9	515.4
75°	285.4	323.7	353.2	385.1	402.7	417.3	426.3	418.8
77.5°	223.6	253.2	276.8	300.1	320.3	323.7	331.5	326.7
80°	164.8	186.2	203.4	218.8	233.4	234.9	241.2	238.2
82.5°	109.8	124.0	128.5	144.6	154.0	152.5	158.8	156.6
85°	58.1	66.7	74.5	79.4	84.7	79.8	85.4	83.2
87.5°	19.5	20.6	18.0	25.5	28.1	24.0	27.3	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)