

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: P837815

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-50-120-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: P837815
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-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

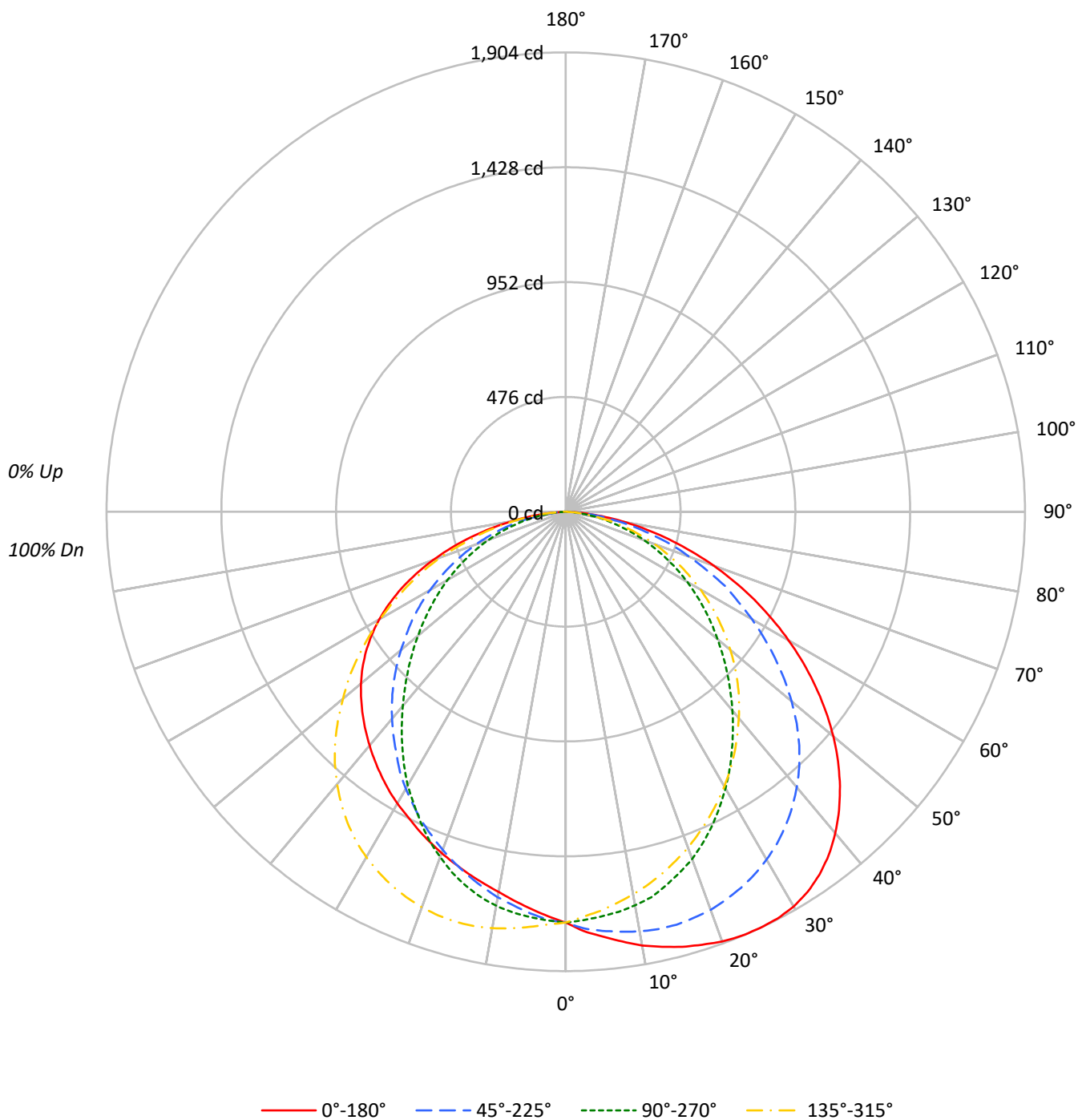
Lumens per Lamp: N/A
Luminaire Lumens: 4995.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4582	4582	4582	4582
5°	4775	4549	4463	4556
10°	4988	4526	4373	4532
15°	5202	4468	4330	4469
20°	5429	4387	4311	4362
25°	5653	4264	4310	4221
30°	5872	4116	4339	4070
35°	6028	3947	4383	3884
40°	6108	3777	4444	3692
45°	6120	3605	4530	3514
50°	6062	3440	4641	3349
55°	5937	3287	4744	3195
60°	5750	3127	4807	3046
65°	5493	2944	4782	2876
70°	5131	2728	4612	2678
75°	4616	2432	4233	2419
80°	3914	2038	3558	2067
85°	2723	1349	2257	1386

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.2
10°-20°	468.1	9.4
20°-30°	717.4	14.4
30°-40°	872.3	17.5
40°-50°	906.8	18.2
50°-60°	819.1	16.4
60°-70°	622.8	12.5
70°-80°	347.2	7.0
80°-90°	79.9	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°	1347.2	27.0
0°-40°	2219.5	44.4
0°-60°	3945.5	79.0
0°-90°	4995.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4995.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1703	1703	1703	1703	1703	
5°	1768	1684	1652	1687	1768	170
15°	1867	1604	1554	1604	1867	529
25°	1904	1436	1452	1422	1904	879
35°	1835	1201	1334	1182	1835	1146
45°	1608	947	1190	923	1608	1238
55°	1265	701	1011	681	1265	1130
65°	863	462	751	452	863	852
75°	444	234	407	233	444	472
85°	88	44	73	45	88	111
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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1740.4	1715.0	1715.4	1737.6	1720.5	1728.9	1705.0	1714.2	1711.4	1713.4	1693.9
5°	1767.8	1740.4	1740.0	1759.0	1740.0	1743.6	1713.4	1719.3	1710.6	1705.0	1684.0
7.5°	1796.8	1769.4	1766.6	1783.3	1758.3	1755.5	1722.1	1722.1	1706.2	1692.3	1672.5
10°	1825.4	1797.2	1793.6	1806.3	1775.3	1766.2	1725.7	1719.3	1698.3	1677.6	1656.2
12.5°	1846.8	1818.2	1815.4	1823.4	1788.4	1771.8	1725.7	1713.4	1682.4	1653.4	1636.7
15°	1867.1	1837.7	1830.1	1834.1	1794.0	1771.8	1720.1	1701.1	1661.3	1623.2	1603.8
17.5°	1881.4	1853.2	1845.6	1845.2	1796.8	1765.0	1708.2	1682.0	1634.3	1588.3	1568.8
20°	1895.7	1867.5	1857.9	1850.8	1796.0	1755.9	1690.7	1655.4	1599.8	1548.2	1531.9
22.5°	1902.8	1873.8	1863.5	1852.8	1790.8	1739.2	1669.3	1624.4	1560.9	1499.3	1485.8
25°	1904.0	1874.2	1863.1	1847.6	1780.5	1719.3	1641.5	1587.1	1516.0	1447.7	1436.2
27.5°	1900.8	1868.3	1857.1	1838.5	1765.0	1695.1	1608.5	1544.6	1468.3	1392.9	1380.5
30°	1889.7	1856.7	1846.0	1821.8	1743.2	1665.3	1572.4	1497.3	1415.5	1335.3	1324.5
32.5°	1867.5	1835.3	1826.6	1802.3	1719.3	1630.8	1530.3	1446.5	1357.1	1280.5	1264.6
35°	1834.9	1802.7	1797.2	1771.8	1686.0	1589.5	1484.2	1390.9	1295.2	1216.9	1201.4
37.5°	1792.4	1765.4	1757.1	1732.0	1646.6	1542.6	1431.4	1330.5	1232.0	1147.8	1138.3
40°	1738.8	1713.4	1707.0	1684.8	1601.0	1490.6	1374.2	1268.1	1166.9	1088.6	1075.1
42.5°	1677.6	1653.8	1650.2	1627.2	1544.6	1433.0	1312.2	1203.4	1099.0	1023.5	1010.0
45°	1608.1	1585.1	1584.3	1562.4	1483.0	1369.0	1247.1	1137.9	1032.6	954.4	947.2
47.5°	1531.5	1510.8	1510.8	1490.6	1414.3	1298.7	1180.0	1069.6	965.9	896.8	884.1
50°	1448.1	1428.6	1422.6	1412.7	1338.4	1222.1	1109.3	1002.8	900.0	834.0	821.7
52.5°	1359.1	1342.4	1346.4	1328.1	1256.2	1142.2	1037.8	927.8	833.7	773.7	761.4
55°	1265.4	1241.5	1245.1	1238.4	1170.4	1060.0	957.6	865.8	768.5	712.1	700.6
57.5°	1168.1	1137.1	1149.8	1145.8	1079.1	975.8	884.1	795.5	703.8	651.7	640.6
60°	1068.4	1038.6	1051.7	1048.1	985.4	891.6	808.2	726.0	639.4	592.2	581.1
62.5°	965.9	938.5	950.4	947.6	890.0	805.5	732.8	657.3	574.7	532.2	521.9
65°	862.6	836.4	847.2	845.2	791.9	727.6	655.3	586.2	509.6	472.6	462.3
67.5°	757.0	732.8	742.7	742.7	693.8	632.3	577.5	514.3	445.6	413.8	404.3
70°	652.1	629.5	638.2	637.5	596.1	546.1	498.8	442.4	380.9	354.7	346.7
72.5°	546.5	526.6	534.6	533.8	499.2	467.1	420.2	371.3	317.7	296.7	289.5
75°	444.0	425.4	432.9	432.1	403.9	373.7	342.4	301.8	255.8	241.1	233.9
77.5°	346.3	327.3	333.6	333.6	313.0	291.1	266.1	234.7	202.2	186.3	181.1
80°	252.6	243.5	240.3	240.7	226.8	212.5	199.8	169.6	145.8	135.0	131.5
82.5°	166.0	158.5	155.3	156.1	148.1	139.4	131.5	110.4	94.5	88.2	86.2
85°	88.2	82.6	79.8	81.8	80.2	75.5	71.5	57.2	47.3	44.9	43.7
87.5°	27.8	24.2	22.2	29.4	25.0	22.2	21.4	17.1	13.1	13.1	12.7
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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1700.3	1700.3	1684.8	1681.2	1679.6	1681.6	1666.1	1663.3	1685.6	1678.0	1660.9
5°	1686.8	1686.0	1664.1	1660.2	1660.2	1657.8	1640.3	1636.3	1658.6	1652.2	1633.5
7.5°	1670.1	1667.7	1641.9	1639.1	1635.1	1633.5	1614.1	1611.3	1630.4	1626.4	1608.9
10°	1649.8	1647.4	1616.9	1614.9	1610.5	1607.3	1589.1	1587.1	1606.5	1600.2	1586.3
12.5°	1623.2	1618.8	1587.5	1585.5	1581.9	1580.7	1562.8	1562.1	1583.5	1577.1	1562.4
15°	1588.3	1584.7	1549.7	1550.5	1550.9	1550.9	1536.6	1535.8	1556.9	1554.1	1538.2
17.5°	1549.7	1545.0	1511.6	1514.0	1516.8	1520.0	1508.8	1510.8	1533.1	1529.5	1515.2
20°	1506.1	1501.3	1468.7	1475.5	1481.4	1487.8	1480.6	1486.2	1506.8	1505.3	1494.5
22.5°	1457.2	1452.4	1422.2	1432.6	1442.5	1454.4	1451.2	1457.6	1479.4	1479.0	1469.5
25°	1397.6	1398.8	1372.2	1384.9	1401.6	1418.3	1419.5	1429.8	1454.0	1451.6	1442.9
27.5°	1342.0	1343.6	1315.4	1336.9	1359.1	1380.5	1385.7	1400.0	1424.6	1422.6	1415.1
30°	1283.6	1285.6	1258.2	1287.6	1314.6	1340.8	1352.0	1371.4	1396.4	1396.4	1388.5
32.5°	1222.9	1226.4	1197.9	1237.2	1268.5	1299.1	1318.6	1338.8	1367.4	1366.6	1359.9
35°	1160.5	1164.5	1138.3	1188.3	1219.7	1257.0	1281.3	1308.3	1333.7	1334.1	1328.9
37.5°	1097.0	1101.7	1077.9	1132.7	1168.5	1212.5	1243.5	1270.5	1298.7	1300.3	1295.6
40°	1033.8	1039.0	1018.3	1071.2	1116.4	1165.7	1201.4	1233.2	1264.2	1265.0	1261.8
42.5°	970.7	976.2	960.7	1012.4	1063.6	1116.4	1158.5	1194.7	1226.4	1228.4	1224.9
45°	909.1	913.9	902.8	959.2	1008.4	1066.0	1114.4	1155.4	1187.5	1190.3	1189.1
47.5°	847.9	852.3	842.4	894.0	950.8	1012.0	1068.0	1113.3	1147.4	1150.6	1149.8
50°	788.0	791.6	780.8	834.8	891.2	956.4	1014.8	1067.2	1105.3	1108.5	1108.1
52.5°	728.4	732.0	722.8	779.6	830.9	899.6	963.1	1019.9	1057.7	1062.4	1063.2
55°	670.8	672.4	665.3	719.7	769.3	841.2	914.3	969.5	1007.2	1011.2	1013.6
57.5°	613.2	613.6	607.7	659.7	707.4	780.8	857.5	915.5	951.2	955.2	958.8
60°	556.0	555.6	548.9	599.3	645.0	717.7	797.5	855.1	889.7	893.2	898.0
62.5°	499.2	498.0	492.1	538.6	581.5	653.3	733.6	789.2	822.1	824.5	830.9
65°	442.8	441.6	436.1	479.0	517.9	586.6	665.3	718.1	747.9	751.0	749.8
67.5°	387.2	384.9	380.5	419.0	454.4	517.9	593.4	643.8	668.4	671.2	678.8
70°	331.6	328.9	318.9	359.8	390.8	447.6	517.9	562.8	583.4	586.2	585.0
72.5°	276.8	274.0	263.3	301.1	327.3	376.9	439.7	477.0	494.9	497.3	497.3
75°	223.6	222.0	215.3	243.9	265.7	306.2	359.4	390.4	404.3	407.1	406.3
77.5°	172.4	171.2	164.4	189.1	206.1	236.3	279.2	303.4	313.8	316.9	323.7
80°	123.5	123.1	112.4	136.6	144.2	169.6	201.0	219.6	225.2	229.6	234.3
82.5°	79.0	79.4	68.7	89.4	92.5	108.8	128.3	139.8	143.8	147.3	150.9
85°	38.5	40.1	34.2	47.3	47.7	56.0	64.3	68.7	70.3	73.1	76.3
87.5°	9.9	11.5	6.4	13.5	11.9	15.5	17.9	19.1	18.7	20.7	21.8
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°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1666.5	1679.2	1672.9	1693.5	1701.5	1688.7	1711.0	1711.4	1695.5	1714.2	1724.5
5°	1640.7	1653.8	1649.8	1671.3	1681.2	1670.1	1697.1	1702.3	1686.8	1707.8	1724.5
7.5°	1614.5	1630.0	1624.8	1646.6	1658.6	1649.8	1678.8	1687.2	1675.2	1698.3	1720.5
10°	1591.8	1604.9	1599.4	1622.4	1632.7	1625.6	1654.2	1669.7	1658.6	1686.8	1713.4
12.5°	1569.6	1580.3	1574.0	1593.0	1603.0	1593.8	1628.8	1643.1	1635.1	1664.5	1698.7
15°	1541.0	1552.9	1544.2	1561.3	1568.8	1560.9	1589.5	1614.1	1604.2	1636.3	1674.1
17.5°	1519.2	1525.9	1514.0	1527.5	1531.9	1521.1	1550.1	1574.4	1567.2	1602.2	1645.9
20°	1494.9	1500.5	1483.8	1491.4	1491.0	1477.5	1504.1	1527.9	1523.1	1561.7	1611.3
22.5°	1467.9	1470.7	1451.2	1452.8	1452.0	1429.8	1453.6	1477.9	1475.9	1514.8	1570.4
25°	1439.3	1439.7	1414.7	1413.9	1405.2	1379.0	1400.0	1427.4	1421.5	1463.6	1521.9
27.5°	1411.1	1407.2	1377.0	1369.8	1355.9	1324.5	1343.2	1367.8	1364.3	1405.6	1470.3
30°	1380.9	1375.8	1338.8	1325.7	1305.5	1269.3	1284.8	1307.9	1309.9	1346.0	1413.9
32.5°	1352.3	1339.2	1298.3	1279.3	1253.9	1211.8	1220.1	1243.5	1246.7	1283.2	1353.1
35°	1315.4	1306.7	1256.2	1223.7	1198.6	1152.6	1161.3	1177.6	1182.4	1218.1	1289.2
37.5°	1280.5	1266.6	1212.9	1173.2	1141.1	1092.6	1095.0	1111.7	1116.4	1152.6	1222.9
40°	1244.3	1224.5	1166.9	1120.4	1083.5	1032.6	1029.9	1047.3	1050.9	1086.2	1149.8
42.5°	1205.8	1182.0	1117.2	1066.4	1023.9	972.3	966.7	981.8	985.8	1020.3	1082.7
45°	1166.9	1138.3	1066.4	1010.8	964.3	911.5	905.9	917.5	923.4	956.0	1015.9
47.5°	1125.6	1092.2	1014.0	952.0	903.9	851.1	844.4	855.9	860.7	892.8	949.6
50°	1082.3	1041.8	959.9	891.6	844.0	791.9	782.0	795.5	799.9	830.1	885.7
52.5°	1034.6	989.7	902.4	830.9	783.2	733.6	721.6	734.8	739.9	769.3	820.5
55°	984.2	935.7	844.4	774.9	723.2	674.8	664.9	670.0	681.1	708.9	756.6
57.5°	927.4	879.3	783.2	712.5	662.9	616.4	608.1	612.8	623.2	650.2	693.1
60°	867.0	816.2	720.9	650.2	602.1	558.0	550.5	554.8	566.0	590.6	630.3
62.5°	807.4	750.2	656.5	586.2	542.5	501.6	499.6	498.0	508.4	532.2	567.2
65°	735.2	680.3	589.4	522.7	483.0	446.0	438.1	441.6	451.6	473.4	510.0
67.5°	657.7	608.1	520.7	459.1	423.8	390.8	384.1	385.6	396.0	415.0	446.8
70°	575.5	531.8	450.4	395.2	365.4	334.4	330.0	330.4	340.4	357.1	384.9
72.5°	489.3	450.0	379.3	332.0	307.4	285.2	281.2	276.4	285.6	299.9	323.7
75°	401.5	367.0	308.6	270.1	250.6	231.9	228.4	223.6	232.7	245.1	263.7
77.5°	313.0	285.2	239.9	210.1	195.0	181.1	177.9	172.8	181.9	191.0	205.7
80°	226.4	206.1	179.1	147.7	142.6	133.4	130.3	124.7	133.4	139.4	150.5
82.5°	146.2	132.7	117.2	95.3	94.5	87.8	86.2	79.8	87.8	91.3	99.7
85°	73.9	67.5	63.5	48.5	50.0	45.7	45.3	38.5	44.9	46.5	51.2
87.5°	21.0	22.2	19.9	11.9	15.1	14.3	14.3	10.3	14.3	14.3	16.3
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: P837815

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6	1702.6
2.5°	1704.2	1711.0	1712.6	1712.2	1716.5	1740.4	1732.4	1740.4
5°	1708.2	1723.3	1727.3	1732.8	1740.0	1767.0	1758.3	1767.8
7.5°	1710.6	1733.2	1742.0	1752.7	1764.2	1794.4	1787.2	1796.8
10°	1710.6	1740.0	1752.7	1770.6	1786.1	1821.0	1814.3	1825.4
12.5°	1703.4	1741.2	1759.0	1784.1	1803.9	1841.7	1838.9	1846.8
15°	1688.7	1735.2	1759.8	1792.0	1816.6	1858.7	1857.5	1867.1
17.5°	1668.9	1724.9	1754.7	1795.2	1826.2	1873.4	1876.2	1881.4
20°	1643.9	1705.4	1744.4	1794.0	1832.9	1884.9	1888.5	1895.7
22.5°	1610.9	1682.0	1728.9	1788.8	1833.7	1889.7	1896.1	1902.8
25°	1572.0	1653.8	1708.6	1778.9	1829.7	1889.3	1898.1	1904.0
27.5°	1527.5	1617.3	1682.8	1763.0	1818.6	1883.0	1893.7	1900.8
30°	1475.9	1578.3	1653.4	1742.4	1803.5	1871.0	1882.6	1889.7
32.5°	1422.6	1535.4	1618.4	1715.8	1781.7	1852.0	1861.9	1867.5
35°	1364.7	1483.4	1576.3	1681.6	1753.5	1821.4	1828.9	1834.9
37.5°	1301.5	1427.0	1528.3	1643.1	1713.8	1778.9	1785.7	1792.4
40°	1236.4	1367.8	1474.3	1595.8	1666.5	1726.9	1734.0	1738.8
42.5°	1170.8	1302.3	1416.7	1540.2	1610.5	1668.5	1672.9	1677.6
45°	1104.5	1234.4	1352.0	1478.6	1548.2	1602.6	1604.2	1608.1
47.5°	1037.0	1164.1	1280.9	1408.3	1477.1	1526.7	1528.3	1531.5
50°	969.1	1093.8	1205.0	1332.5	1399.6	1452.0	1444.9	1448.1
52.5°	902.4	1019.9	1133.5	1250.7	1317.0	1363.5	1365.5	1359.1
55°	836.8	947.6	1052.1	1164.9	1228.0	1264.2	1263.0	1265.4
57.5°	770.5	874.6	970.3	1073.5	1135.1	1169.3	1176.4	1168.1
60°	703.0	800.7	886.5	979.8	1039.4	1068.0	1076.3	1068.4
62.5°	635.9	725.6	803.5	884.9	940.1	975.4	974.6	965.9
65°	568.7	650.2	719.7	788.8	836.8	872.2	870.6	862.6
67.5°	506.8	573.9	636.3	692.3	734.0	758.2	766.5	757.0
70°	438.5	496.5	551.3	596.1	630.7	652.5	660.5	652.1
72.5°	370.2	419.4	457.9	501.2	527.8	546.1	554.4	546.5
75°	302.6	343.2	374.5	408.3	427.0	442.4	452.0	444.0
77.5°	237.1	268.5	293.5	318.1	339.6	343.2	351.5	346.3
80°	174.8	197.4	215.7	231.9	247.4	249.0	255.8	252.6
82.5°	116.4	131.5	136.2	153.3	163.2	161.6	168.4	166.0
85°	61.6	70.7	79.0	84.2	89.8	84.6	90.6	88.2
87.5°	20.7	21.8	19.1	27.0	29.8	25.4	29.0	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)