

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: P837779

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-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: P837779
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-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

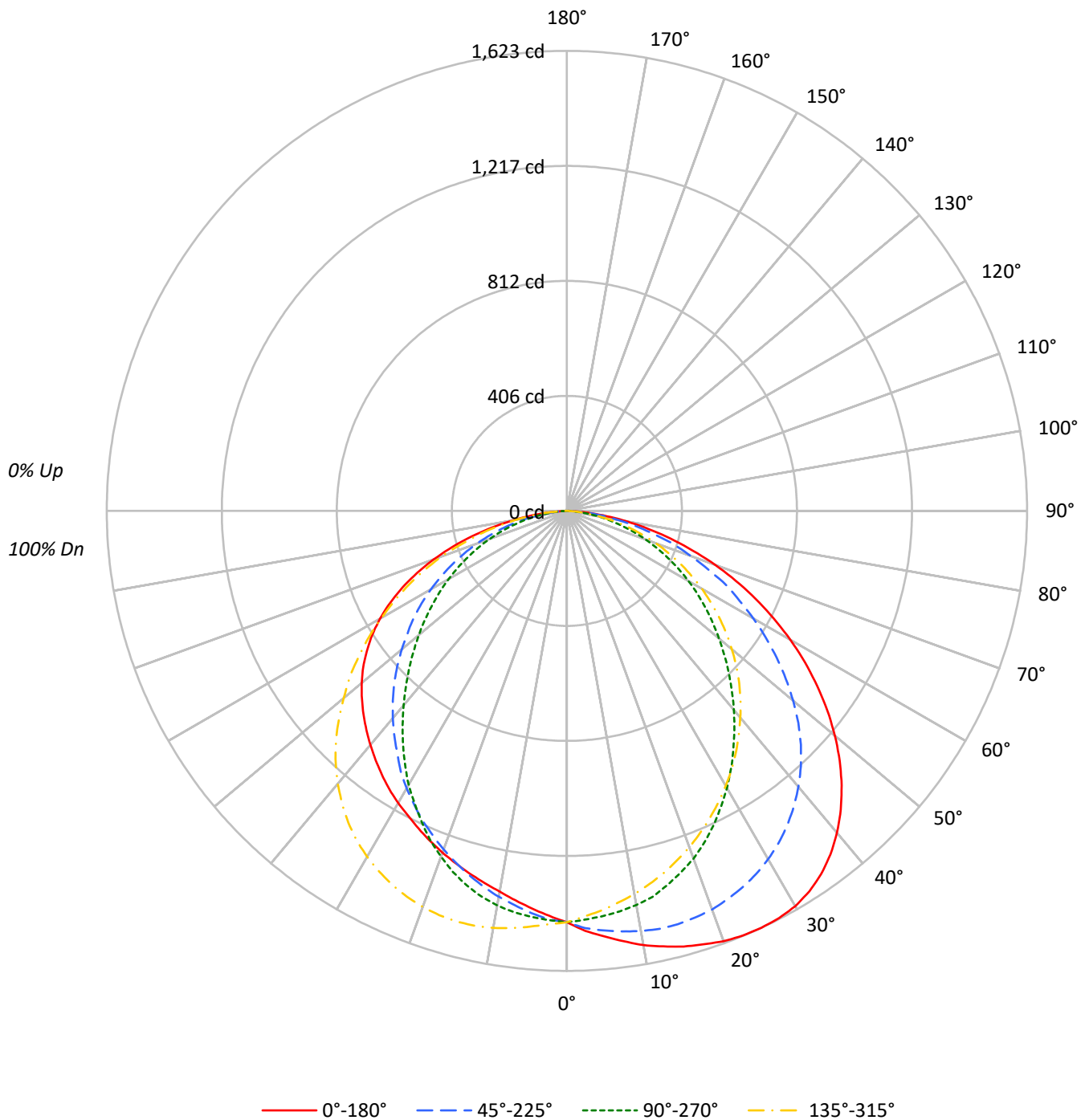
Lumens per Lamp: N/A
Luminaire Lumens: 4257.4 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3905	3905	3905	3905
5°	4070	3877	3804	3883
10°	4251	3857	3727	3862
15°	4433	3808	3690	3809
20°	4627	3739	3674	3717
25°	4818	3634	3673	3597
30°	5005	3508	3698	3469
35°	5137	3364	3735	3310
40°	5206	3219	3787	3146
45°	5216	3072	3861	2995
50°	5166	2932	3955	2854
55°	5059	2801	4043	2723
60°	4900	2665	4097	2596
65°	4681	2509	4076	2451
70°	4373	2325	3931	2282
75°	3934	2073	3608	2063
80°	3336	1736	3031	1762
85°	2319	1149	1924	1179

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	3.2
10°-20°	399.0	9.4
20°-30°	611.4	14.4
30°-40°	743.5	17.5
40°-50°	772.9	18.2
50°-60°	698.1	16.4
60°-70°	530.8	12.5
70°-80°	295.9	7.0
80°-90°	68.1	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°	1148.2	27.0
0°-40°	1891.6	44.4
0°-60°	3362.6	79.0
0°-90°	4257.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4257.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1451	1451	1451	1451	1451	
5°	1507	1435	1408	1438	1507	145
15°	1591	1367	1324	1367	1591	451
25°	1623	1224	1237	1212	1623	749
35°	1564	1024	1137	1008	1564	977
45°	1371	807	1014	787	1371	1055
55°	1078	597	862	580	1078	963
65°	735	394	640	385	735	727
75°	378	199	347	198	378	402
85°	75	37	62	38	75	95
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°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1483.3	1461.6	1462.0	1480.9	1466.4	1473.5	1453.2	1460.9	1458.6	1460.3	1443.7
5°	1506.6	1483.3	1482.9	1499.2	1482.9	1486.0	1460.3	1465.3	1457.9	1453.2	1435.2
7.5°	1531.3	1508.0	1505.6	1519.8	1498.5	1496.1	1467.7	1467.7	1454.2	1442.3	1425.4
10°	1555.7	1531.7	1528.6	1539.5	1513.1	1505.3	1470.8	1465.3	1447.4	1429.8	1411.5
12.5°	1574.0	1549.6	1547.3	1554.0	1524.2	1510.0	1470.8	1460.3	1433.9	1409.1	1394.9
15°	1591.3	1566.2	1559.8	1563.2	1529.0	1510.0	1466.0	1449.8	1415.9	1383.4	1366.8
17.5°	1603.4	1579.4	1573.0	1572.6	1531.3	1504.3	1455.9	1433.5	1392.9	1353.6	1337.0
20°	1615.6	1591.6	1583.5	1577.4	1530.7	1496.5	1441.0	1410.8	1363.5	1319.4	1305.6
22.5°	1621.7	1597.0	1588.2	1579.1	1526.3	1482.3	1422.7	1384.4	1330.3	1277.8	1266.3
25°	1622.7	1597.3	1587.9	1574.7	1517.5	1465.3	1399.0	1352.6	1292.0	1233.8	1224.0
27.5°	1620.0	1592.3	1582.8	1566.9	1504.3	1444.7	1370.9	1316.4	1251.4	1187.1	1176.6
30°	1610.6	1582.5	1573.3	1552.7	1485.6	1419.3	1340.1	1276.1	1206.4	1138.0	1128.9
32.5°	1591.6	1564.2	1556.7	1536.1	1465.3	1389.9	1304.2	1232.8	1156.6	1091.3	1077.8
35°	1563.8	1536.4	1531.7	1510.0	1436.9	1354.7	1264.9	1185.4	1103.8	1037.1	1023.9
37.5°	1527.6	1504.6	1497.5	1476.2	1403.4	1314.7	1219.9	1134.0	1050.0	978.2	970.1
40°	1481.9	1460.3	1454.8	1435.9	1364.5	1270.4	1171.2	1080.8	994.5	927.8	916.3
42.5°	1429.8	1409.5	1406.4	1386.8	1316.4	1221.3	1118.4	1025.6	936.6	872.3	860.8
45°	1370.6	1350.9	1350.2	1331.6	1263.9	1166.8	1062.9	969.8	880.1	813.4	807.3
47.5°	1305.2	1287.6	1287.6	1270.4	1205.4	1106.9	1005.7	911.6	823.2	764.3	753.5
50°	1234.1	1217.6	1212.5	1204.0	1140.7	1041.5	945.4	854.7	767.0	710.8	700.3
52.5°	1158.3	1144.1	1147.5	1131.9	1070.7	973.5	884.5	790.7	710.5	659.4	648.9
55°	1078.4	1058.1	1061.2	1055.4	997.5	903.4	816.1	737.9	655.0	606.9	597.1
57.5°	995.5	969.1	979.9	976.6	919.7	831.7	753.5	678.0	599.8	555.5	546.0
60°	910.5	885.2	896.3	893.3	839.8	759.9	688.8	618.8	545.0	504.7	495.2
62.5°	823.2	799.9	810.0	807.6	758.6	686.5	624.5	560.2	489.8	453.6	444.8
65°	735.2	712.9	722.0	720.3	675.0	620.1	558.5	499.6	434.3	402.8	394.0
67.5°	645.2	624.5	633.0	633.0	591.3	538.9	492.2	438.3	379.8	352.7	344.6
70°	555.8	536.5	544.0	543.3	508.1	465.4	425.1	377.1	324.6	302.3	295.5
72.5°	465.8	448.8	455.6	454.9	425.5	398.1	358.1	316.5	270.8	252.9	246.8
75°	378.4	362.5	369.0	368.3	344.2	318.5	291.8	257.3	218.0	205.5	199.4
77.5°	295.2	278.9	284.3	284.3	266.7	248.1	226.8	200.0	172.3	158.8	154.4
80°	215.3	207.5	204.8	205.1	193.3	181.1	170.3	144.5	124.2	115.1	112.0
82.5°	141.5	135.1	132.4	133.0	126.3	118.8	112.0	94.1	80.6	75.1	73.5
85°	75.1	70.4	68.0	69.7	68.4	64.3	60.9	48.7	40.3	38.2	37.2
87.5°	23.7	20.6	19.0	25.0	21.3	19.0	18.3	14.6	11.2	11.2	10.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1449.1	1449.1	1435.9	1432.8	1431.5	1433.2	1420.0	1417.6	1436.6	1430.1	1415.6
5°	1437.6	1436.9	1418.3	1414.9	1414.9	1412.9	1398.0	1394.6	1413.5	1408.1	1392.2
7.5°	1423.4	1421.3	1399.3	1397.0	1393.6	1392.2	1375.6	1373.3	1389.5	1386.1	1371.2
10°	1406.1	1404.1	1378.0	1376.3	1372.6	1369.9	1354.3	1352.6	1369.2	1363.8	1351.9
12.5°	1383.4	1379.7	1353.0	1351.3	1348.2	1347.2	1332.0	1331.3	1349.6	1344.2	1331.6
15°	1353.6	1350.6	1320.8	1321.5	1321.8	1321.8	1309.6	1309.0	1326.9	1324.5	1311.0
17.5°	1320.8	1316.7	1288.3	1290.3	1292.7	1295.4	1285.9	1287.6	1306.6	1303.5	1291.4
20°	1283.6	1279.5	1251.7	1257.5	1262.6	1268.0	1261.9	1266.6	1284.2	1282.9	1273.8
22.5°	1241.9	1237.9	1212.1	1220.9	1229.4	1239.6	1236.9	1242.3	1260.9	1260.5	1252.4
25°	1191.2	1192.2	1169.5	1180.3	1194.5	1208.8	1209.8	1218.6	1239.2	1237.2	1229.7
27.5°	1143.8	1145.1	1121.1	1139.4	1158.3	1176.6	1181.0	1193.2	1214.2	1212.5	1206.1
30°	1094.0	1095.7	1072.3	1097.4	1120.4	1142.8	1152.2	1168.8	1190.1	1190.1	1183.4
32.5°	1042.2	1045.3	1020.9	1054.4	1081.1	1107.2	1123.8	1141.1	1165.4	1164.8	1159.0
35°	989.1	992.5	970.1	1012.8	1039.5	1071.3	1092.0	1115.0	1136.7	1137.0	1132.6
37.5°	934.9	939.0	918.7	965.4	995.8	1033.4	1059.8	1082.8	1106.9	1108.2	1104.2
40°	881.1	885.5	867.9	912.9	951.5	993.5	1023.9	1051.0	1077.4	1078.1	1075.4
42.5°	827.3	832.0	818.8	862.8	906.5	951.5	987.4	1018.2	1045.3	1047.0	1043.9
45°	774.8	778.9	769.4	817.5	859.4	908.5	949.8	984.7	1012.1	1014.5	1013.4
47.5°	722.7	726.4	717.9	761.9	810.4	862.5	910.2	948.8	977.9	980.6	979.9
50°	671.6	674.6	665.5	711.5	759.6	815.1	864.9	909.5	942.0	944.7	944.4
52.5°	620.8	623.8	616.1	664.5	708.1	766.7	820.8	869.3	901.4	905.5	906.1
55°	571.7	573.1	567.0	613.3	655.7	716.9	779.2	826.3	858.4	861.8	863.8
57.5°	522.6	523.0	517.9	562.2	602.9	665.5	730.8	780.2	810.7	814.1	817.1
60°	473.9	473.6	467.8	510.8	549.7	611.7	679.7	728.8	758.2	761.3	765.3
62.5°	425.5	424.5	419.4	459.0	495.6	556.8	625.2	672.6	700.7	702.7	708.1
65°	377.4	376.4	371.7	408.2	441.4	500.0	567.0	612.0	637.4	640.1	639.1
67.5°	330.0	328.0	324.3	357.1	387.2	441.4	505.7	548.7	569.7	572.1	578.5
70°	282.6	280.3	271.8	306.7	333.1	381.5	441.4	479.6	497.2	499.6	498.6
72.5°	235.9	233.6	224.4	256.6	278.9	321.2	374.7	406.5	421.8	423.8	423.8
75°	190.6	189.2	183.5	207.8	226.5	261.0	306.3	332.7	344.6	347.0	346.3
77.5°	146.9	145.9	140.1	161.1	175.7	201.4	238.0	258.6	267.4	270.1	275.9
80°	105.3	104.9	95.8	116.4	122.9	144.5	171.3	187.2	191.9	195.6	199.7
82.5°	67.4	67.7	58.6	76.2	78.9	92.7	109.3	119.1	122.5	125.6	128.6
85°	32.8	34.2	29.1	40.3	40.6	47.7	54.8	58.6	59.9	62.3	65.0
87.5°	8.5	9.8	5.4	11.5	10.2	13.2	15.2	16.2	15.9	17.6	18.6
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°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1420.3	1431.1	1425.7	1443.3	1450.1	1439.3	1458.2	1458.6	1445.0	1460.9	1469.7
5°	1398.3	1409.5	1406.1	1424.4	1432.8	1423.4	1446.4	1450.8	1437.6	1455.5	1469.7
7.5°	1376.0	1389.2	1384.8	1403.4	1413.5	1406.1	1430.8	1437.9	1427.8	1447.4	1466.4
10°	1356.7	1367.9	1363.1	1382.7	1391.5	1385.5	1409.8	1423.0	1413.5	1437.6	1460.3
12.5°	1337.7	1346.9	1341.4	1357.7	1366.2	1358.4	1388.2	1400.3	1393.6	1418.6	1447.7
15°	1313.4	1323.5	1316.1	1330.6	1337.0	1330.3	1354.7	1375.6	1367.2	1394.6	1426.7
17.5°	1294.7	1300.5	1290.3	1301.8	1305.6	1296.4	1321.1	1341.8	1335.7	1365.5	1402.7
20°	1274.1	1278.8	1264.6	1271.0	1270.7	1259.2	1281.9	1302.2	1298.1	1331.0	1373.3
22.5°	1251.1	1253.4	1236.9	1238.2	1237.5	1218.6	1238.9	1259.5	1257.8	1291.0	1338.4
25°	1226.7	1227.0	1205.7	1205.0	1197.6	1175.2	1193.2	1216.5	1211.5	1247.3	1297.1
27.5°	1202.7	1199.3	1173.6	1167.5	1155.6	1128.9	1144.8	1165.8	1162.7	1197.9	1253.1
30°	1176.9	1172.5	1141.1	1129.9	1112.6	1081.8	1095.0	1114.7	1116.4	1147.2	1205.0
32.5°	1152.6	1141.4	1106.5	1090.3	1068.6	1032.7	1039.9	1059.8	1062.5	1093.7	1153.2
35°	1121.1	1113.6	1070.7	1042.9	1021.6	982.3	989.8	1003.6	1007.7	1038.2	1098.7
37.5°	1091.3	1079.5	1033.8	999.9	972.5	931.2	933.2	947.4	951.5	982.3	1042.2
40°	1060.5	1043.6	994.5	954.9	923.4	880.1	877.7	892.6	895.7	925.8	979.9
42.5°	1027.7	1007.4	952.2	908.9	872.6	828.6	823.9	836.8	840.1	869.6	922.7
45°	994.5	970.1	908.9	861.5	821.9	776.8	772.1	781.9	787.0	814.8	865.9
47.5°	959.3	930.9	864.2	811.4	770.4	725.4	719.6	729.5	733.5	760.9	809.3
50°	922.4	887.9	818.1	759.9	719.3	675.0	666.5	678.0	681.7	707.5	754.8
52.5°	881.8	843.5	769.1	708.1	667.5	625.2	615.0	626.2	630.6	655.7	699.3
55°	838.8	797.5	719.6	660.4	616.4	575.1	566.6	571.0	580.5	604.2	644.8
57.5°	790.4	749.4	667.5	607.3	564.9	525.3	518.2	522.3	531.1	554.1	590.7
60°	738.9	695.6	614.4	554.1	513.2	475.6	469.2	472.9	482.4	503.3	537.2
62.5°	688.2	639.4	559.5	499.6	462.4	427.5	425.8	424.5	433.3	453.6	483.4
65°	626.6	579.8	502.3	445.5	411.6	380.1	373.4	376.4	384.9	403.5	434.6
67.5°	560.5	518.2	443.8	391.3	361.2	333.1	327.3	328.7	337.5	353.7	380.8
70°	490.5	453.2	383.9	336.8	311.4	285.0	281.3	281.6	290.1	304.3	328.0
72.5°	417.0	383.5	323.3	283.0	262.0	243.0	239.7	235.6	243.4	255.6	275.9
75°	342.2	312.8	263.0	230.2	213.6	197.7	194.6	190.6	198.4	208.9	224.8
77.5°	266.7	243.0	204.4	179.1	166.2	154.4	151.6	147.2	155.0	162.8	175.3
80°	192.9	175.7	152.7	125.9	121.5	113.7	111.0	106.3	113.7	118.8	128.3
82.5°	124.6	113.1	99.9	81.2	80.6	74.8	73.5	68.0	74.8	77.9	85.0
85°	63.0	57.5	54.2	41.3	42.7	38.9	38.6	32.8	38.2	39.6	43.7
87.5°	17.9	19.0	16.9	10.2	12.9	12.2	12.2	8.8	12.2	12.2	13.9
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: P837779

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1452.5	1458.2	1459.6	1459.2	1463.0	1483.3	1476.5	1483.3
5°	1455.9	1468.7	1472.1	1476.8	1482.9	1506.0	1498.5	1506.6
7.5°	1457.9	1477.2	1484.6	1493.8	1503.6	1529.3	1523.2	1531.3
10°	1457.9	1482.9	1493.8	1509.0	1522.2	1552.0	1546.2	1555.7
12.5°	1451.8	1484.0	1499.2	1520.5	1537.4	1569.6	1567.2	1574.0
15°	1439.3	1478.9	1499.9	1527.3	1548.3	1584.1	1583.1	1591.3
17.5°	1422.3	1470.1	1495.5	1530.0	1556.4	1596.7	1599.0	1603.4
20°	1401.0	1453.5	1486.7	1529.0	1562.1	1606.5	1609.5	1615.6
22.5°	1372.9	1433.5	1473.5	1524.6	1562.8	1610.6	1616.0	1621.7
25°	1339.8	1409.5	1456.2	1516.1	1559.4	1610.2	1617.7	1622.7
27.5°	1301.8	1378.3	1434.2	1502.6	1550.0	1604.8	1613.9	1620.0
30°	1257.8	1345.2	1409.1	1485.0	1537.1	1594.6	1604.5	1610.6
32.5°	1212.5	1308.6	1379.4	1462.3	1518.5	1578.4	1586.9	1591.6
35°	1163.1	1264.3	1343.5	1433.2	1494.4	1552.3	1558.8	1563.8
37.5°	1109.2	1216.2	1302.5	1400.3	1460.6	1516.1	1521.9	1527.6
40°	1053.7	1165.8	1256.5	1360.1	1420.3	1471.8	1477.9	1481.9
42.5°	997.9	1109.9	1207.4	1312.7	1372.6	1422.0	1425.7	1429.8
45°	941.3	1052.0	1152.2	1260.2	1319.4	1365.8	1367.2	1370.6
47.5°	883.8	992.1	1091.6	1200.3	1258.9	1301.2	1302.5	1305.2
50°	825.9	932.2	1027.0	1135.6	1192.9	1237.5	1231.4	1234.1
52.5°	769.1	869.3	966.1	1065.9	1122.4	1162.0	1163.7	1158.3
55°	713.2	807.6	896.7	992.8	1046.6	1077.4	1076.4	1078.4
57.5°	656.7	745.4	826.9	914.9	967.4	996.5	1002.6	995.5
60°	599.1	682.4	755.5	835.1	885.8	910.2	917.3	910.5
62.5°	541.9	618.4	684.8	754.2	801.2	831.3	830.7	823.2
65°	484.7	554.1	613.3	672.2	713.2	743.3	742.0	735.2
67.5°	431.9	489.1	542.3	590.0	625.5	646.2	653.3	645.2
70°	373.7	423.1	469.8	508.1	537.5	556.1	562.9	555.8
72.5°	315.5	357.4	390.3	427.2	449.9	465.4	472.5	465.8
75°	257.9	292.5	319.2	348.0	363.9	377.1	385.2	378.4
77.5°	202.1	228.8	250.1	271.1	289.4	292.5	299.6	295.2
80°	148.9	168.2	183.8	197.7	210.9	212.2	218.0	215.3
82.5°	99.2	112.0	116.1	130.7	139.1	137.8	143.5	141.5
85°	52.5	60.3	67.4	71.8	76.5	72.1	77.2	75.1
87.5°	17.6	18.6	16.2	23.0	25.4	21.7	24.7	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)