

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: P837916

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-50-120-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: P837916
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-LD4-2HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

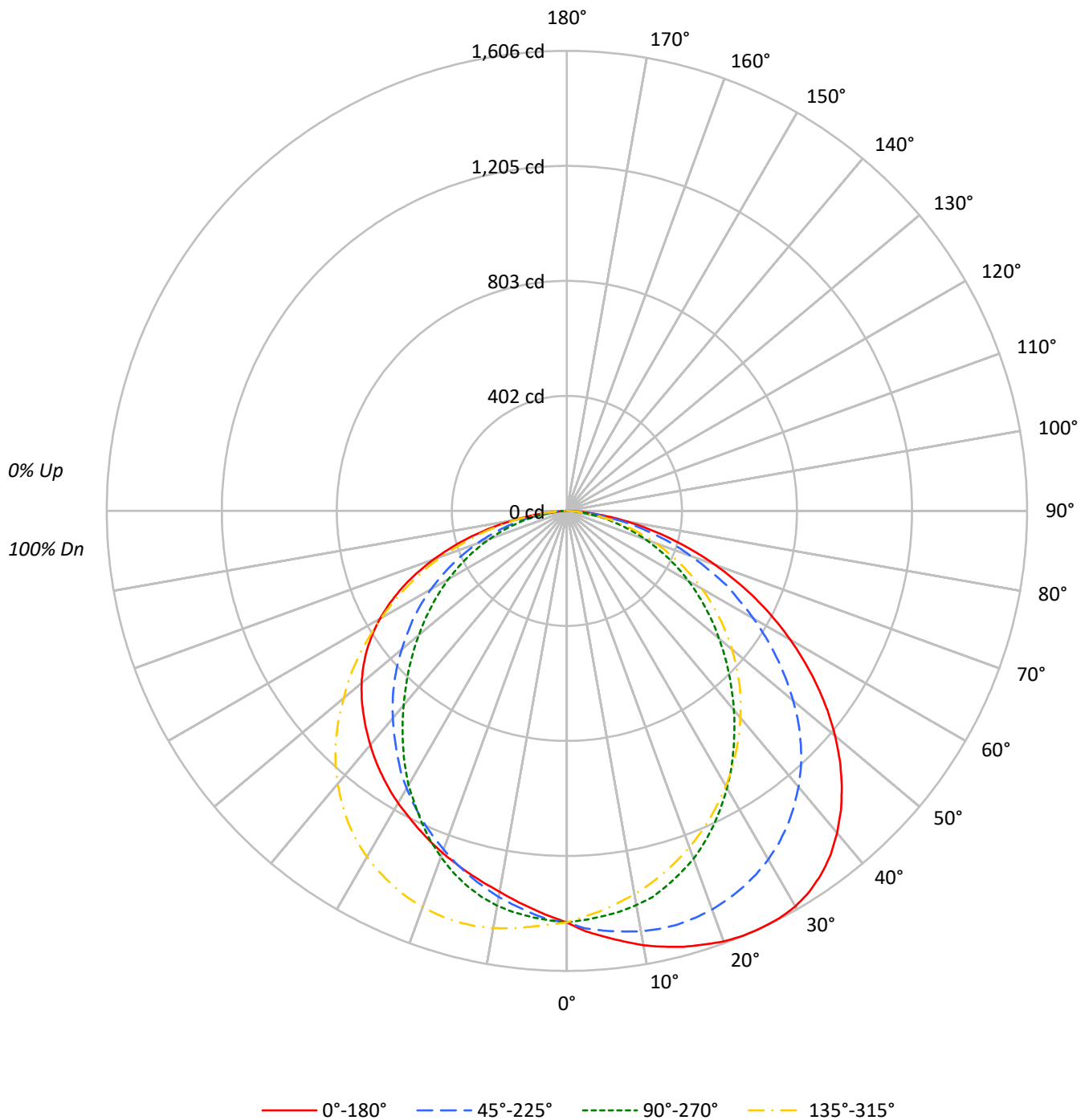
Lumens per Lamp: N/A
Luminaire Lumens: 4214.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3866	3866	3866	3866
5°	4029	3838	3766	3844
10°	4208	3818	3689	3824
15°	4389	3770	3653	3771
20°	4580	3701	3637	3680
25°	4770	3598	3637	3561
30°	4954	3473	3661	3434
35°	5086	3330	3698	3277
40°	5154	3186	3749	3115
45°	5163	3041	3822	2965
50°	5115	2902	3916	2825
55°	5009	2773	4003	2696
60°	4851	2639	4056	2570
65°	4634	2484	4035	2426
70°	4329	2301	3891	2260
75°	3895	2052	3571	2042
80°	3302	1719	3002	1745
85°	2297	1139	1905	1170

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.2
10°-20°	395.0	9.4
20°-30°	605.3	14.4
30°-40°	736.0	17.5
40°-50°	765.1	18.2
50°-60°	691.1	16.4
60°-70°	525.4	12.5
70°-80°	292.9	7.0
80°-90°	67.4	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°	1136.7	27.0
0°-40°	1872.7	44.4
0°-60°	3328.9	79.0
0°-90°	4214.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1437	1437	1437	1437	1437	
5°	1492	1421	1394	1423	1492	144
15°	1575	1353	1311	1354	1575	447
25°	1606	1212	1225	1199	1606	742
35°	1548	1014	1126	998	1548	967
45°	1357	799	1004	779	1357	1045
55°	1068	591	853	575	1068	953
65°	728	390	634	381	728	719
75°	375	197	344	196	375	398
85°	74	37	62	38	74	94
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°	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6
2.5°	1468.4	1447.0	1447.3	1466.1	1451.7	1458.7	1438.6	1446.3	1444.0	1445.6	1429.2
5°	1491.6	1468.4	1468.1	1484.2	1468.1	1471.1	1445.6	1450.7	1443.3	1438.6	1420.8
7.5°	1516.0	1492.9	1490.5	1504.6	1483.5	1481.2	1453.0	1453.0	1439.6	1427.9	1411.1
10°	1540.1	1516.3	1513.3	1524.1	1497.9	1490.2	1456.0	1450.7	1432.9	1415.5	1397.4
12.5°	1558.2	1534.1	1531.8	1538.5	1509.0	1494.9	1456.0	1445.6	1419.5	1395.0	1381.0
15°	1575.3	1550.5	1544.2	1547.5	1513.7	1494.9	1451.3	1435.3	1401.7	1369.6	1353.2
17.5°	1587.4	1563.6	1557.2	1556.9	1516.0	1489.2	1441.3	1419.2	1379.0	1340.1	1323.7
20°	1599.5	1575.7	1567.6	1561.6	1515.3	1481.5	1426.5	1396.7	1349.8	1306.2	1292.5
22.5°	1605.5	1581.0	1572.3	1563.3	1511.0	1467.4	1408.4	1370.6	1317.0	1265.0	1253.6
25°	1606.5	1581.4	1572.0	1558.9	1502.3	1450.7	1385.0	1339.1	1279.1	1221.5	1211.7
27.5°	1603.8	1576.3	1567.0	1551.2	1489.2	1430.2	1357.2	1303.2	1238.9	1175.2	1164.8
30°	1594.4	1566.6	1557.6	1537.1	1470.8	1405.1	1326.7	1263.3	1194.3	1126.6	1117.6
32.5°	1575.7	1548.5	1541.1	1520.7	1450.7	1375.9	1291.2	1220.5	1145.1	1080.4	1067.0
35°	1548.2	1521.0	1516.3	1494.9	1422.5	1341.1	1252.3	1173.5	1092.8	1026.8	1013.7
37.5°	1512.3	1489.5	1482.5	1461.4	1389.3	1301.5	1207.7	1122.6	1039.5	968.5	960.4
40°	1467.1	1445.6	1440.3	1421.5	1350.8	1257.6	1159.5	1070.0	984.5	918.5	907.1
42.5°	1415.5	1395.4	1392.4	1372.9	1303.2	1209.1	1107.2	1015.4	927.2	863.6	852.2
45°	1356.8	1337.4	1336.7	1318.3	1251.3	1155.1	1052.2	960.1	871.3	805.3	799.2
47.5°	1292.2	1274.7	1274.7	1257.6	1193.3	1095.8	995.6	902.4	815.0	756.7	745.9
50°	1221.8	1205.4	1200.3	1192.0	1129.3	1031.1	935.9	846.1	759.3	703.7	693.3
52.5°	1146.7	1132.7	1136.0	1120.6	1059.9	963.8	875.6	782.8	703.4	652.8	642.4
55°	1067.6	1047.5	1050.6	1044.9	987.6	894.4	807.9	730.5	648.4	600.8	591.1
57.5°	985.5	959.4	970.1	966.8	910.5	823.4	745.9	671.2	593.8	549.9	540.5
60°	901.4	876.3	887.4	884.3	831.4	752.3	681.9	612.6	539.5	499.6	490.3
62.5°	815.0	791.9	801.9	799.6	751.0	679.6	618.3	554.6	484.9	449.0	440.3
65°	727.8	705.7	714.8	713.1	668.2	613.9	552.9	494.6	429.9	398.8	390.1
67.5°	638.7	618.3	626.6	626.6	585.4	533.5	487.2	434.0	376.0	349.2	341.1
70°	550.2	531.1	538.5	537.8	503.0	460.8	420.9	373.3	321.4	299.2	292.5
72.5°	461.1	444.3	451.1	450.4	421.2	394.1	354.5	313.3	268.1	250.3	244.3
75°	374.6	358.9	365.3	364.6	340.8	315.3	288.9	254.7	215.8	203.4	197.4
77.5°	292.2	276.1	281.5	281.5	264.1	245.6	224.5	198.0	170.6	157.2	152.8
80°	213.1	205.4	202.7	203.1	191.3	179.3	168.6	143.1	123.0	113.9	110.9
82.5°	140.1	133.7	131.0	131.7	125.0	117.6	110.9	93.2	79.8	74.4	72.7
85°	74.4	69.7	67.4	69.0	67.7	63.7	60.3	48.3	39.9	37.9	36.9
87.5°	23.5	20.4	18.8	24.8	21.1	18.8	18.1	14.4	11.1	11.1	10.7
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°	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6
2.5°	1434.6	1434.6	1421.5	1418.5	1417.2	1418.8	1405.8	1403.4	1422.2	1415.8	1401.4
5°	1423.2	1422.5	1404.1	1400.7	1400.7	1398.7	1384.0	1380.6	1399.4	1394.0	1378.3
7.5°	1409.1	1407.1	1385.3	1383.0	1379.6	1378.3	1361.9	1359.5	1375.6	1372.3	1357.5
10°	1392.0	1390.0	1364.2	1362.5	1358.9	1356.2	1340.8	1339.1	1355.5	1350.1	1338.4
12.5°	1369.6	1365.9	1339.4	1337.7	1334.7	1333.7	1318.6	1318.0	1336.1	1330.7	1318.3
15°	1340.1	1337.1	1307.6	1308.2	1308.6	1308.6	1296.5	1295.9	1313.6	1311.3	1297.9
17.5°	1307.6	1303.6	1275.4	1277.4	1279.8	1282.4	1273.1	1274.7	1293.5	1290.5	1278.4
20°	1270.7	1266.7	1239.2	1244.9	1249.9	1255.3	1249.3	1254.0	1271.4	1270.0	1261.0
22.5°	1229.5	1225.5	1200.0	1208.7	1217.1	1227.2	1224.5	1229.8	1248.3	1247.9	1239.9
25°	1179.2	1180.2	1157.8	1168.5	1182.6	1196.7	1197.7	1206.4	1226.8	1224.8	1217.4
27.5°	1132.3	1133.7	1109.9	1128.0	1146.7	1164.8	1169.2	1181.2	1202.0	1200.3	1194.0
30°	1083.1	1084.7	1061.6	1086.4	1109.2	1131.3	1140.7	1157.1	1178.2	1178.2	1171.5
32.5°	1031.8	1034.8	1010.7	1043.9	1070.3	1096.1	1112.5	1129.6	1153.8	1153.1	1147.4
35°	979.2	982.5	960.4	1002.6	1029.1	1060.6	1081.0	1103.8	1125.3	1125.6	1121.3
37.5°	925.6	929.6	909.5	955.7	985.9	1023.1	1049.2	1072.0	1095.8	1097.1	1093.1
40°	872.3	876.6	859.2	903.8	942.0	983.5	1013.7	1040.5	1066.6	1067.3	1064.6
42.5°	819.0	823.7	810.6	854.2	897.4	942.0	977.5	1008.0	1034.8	1036.5	1033.5
45°	767.1	771.1	761.7	809.3	850.8	899.4	940.3	974.8	1002.0	1004.3	1003.3
47.5°	715.4	719.1	710.8	754.3	802.2	853.8	901.1	939.3	968.1	970.8	970.1
50°	664.8	667.9	658.8	704.4	752.0	806.9	856.2	900.4	932.6	935.3	934.9
52.5°	614.6	617.6	609.9	657.8	701.0	759.0	812.6	860.5	892.4	896.4	897.1
55°	566.0	567.3	561.3	607.2	649.1	709.8	771.4	818.0	849.8	853.2	855.2
57.5°	517.4	517.7	512.7	556.6	596.8	658.8	723.5	772.4	802.6	805.9	808.9
60°	469.1	468.8	463.1	505.7	544.2	605.5	672.9	721.5	750.6	753.7	757.7
62.5°	421.2	420.2	415.2	454.4	490.6	551.2	618.9	665.9	693.7	695.7	701.0
65°	373.6	372.6	367.9	404.1	437.0	494.9	561.3	605.9	631.0	633.7	632.7
67.5°	326.7	324.7	321.0	353.5	383.4	437.0	500.6	543.2	564.0	566.3	572.7
70°	279.8	277.5	269.1	303.6	329.7	377.7	437.0	474.8	492.3	494.6	493.6
72.5°	233.6	231.2	222.2	254.0	276.1	318.0	371.0	402.5	417.5	419.6	419.6
75°	188.7	187.3	181.6	205.8	224.2	258.4	303.3	329.4	341.1	343.5	342.8
77.5°	145.4	144.4	138.7	159.5	173.9	199.4	235.6	256.0	264.7	267.4	273.1
80°	104.2	103.9	94.8	115.3	121.6	143.1	169.6	185.3	190.0	193.7	197.7
82.5°	66.7	67.0	58.0	75.4	78.1	91.8	108.2	118.0	121.3	124.3	127.3
85°	32.5	33.8	28.8	39.9	40.2	47.2	54.3	58.0	59.3	61.7	64.3
87.5°	8.4	9.7	5.4	11.4	10.1	13.1	15.1	16.1	15.7	17.4	18.4
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°	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6
2.5°	1406.1	1416.8	1411.5	1428.9	1435.6	1424.9	1443.6	1444.0	1430.6	1446.3	1455.0
5°	1384.3	1395.4	1392.0	1410.1	1418.5	1409.1	1431.9	1436.3	1423.2	1441.0	1455.0
7.5°	1362.2	1375.3	1370.9	1389.3	1399.4	1392.0	1416.5	1423.5	1413.5	1432.9	1451.7
10°	1343.1	1354.2	1349.5	1368.9	1377.6	1371.6	1395.7	1408.8	1399.4	1423.2	1445.6
12.5°	1324.3	1333.4	1328.0	1344.1	1352.5	1344.8	1374.3	1386.3	1379.6	1404.4	1433.2
15°	1300.2	1310.3	1302.9	1317.3	1323.7	1317.0	1341.1	1361.9	1353.5	1380.6	1412.5
17.5°	1281.8	1287.5	1277.4	1288.8	1292.5	1283.5	1307.9	1328.4	1322.3	1351.8	1388.7
20°	1261.3	1266.0	1252.0	1258.3	1258.0	1246.6	1269.0	1289.1	1285.1	1317.6	1359.5
22.5°	1238.5	1240.9	1224.5	1225.8	1225.1	1206.4	1226.5	1246.9	1245.2	1278.1	1325.0
25°	1214.4	1214.8	1193.6	1193.0	1185.6	1163.5	1181.2	1204.4	1199.3	1234.9	1284.1
27.5°	1190.6	1187.3	1161.8	1155.8	1144.0	1117.6	1133.3	1154.1	1151.1	1185.9	1240.6
30°	1165.2	1160.8	1129.6	1118.6	1101.5	1071.0	1084.1	1103.5	1105.2	1135.7	1193.0
32.5°	1141.0	1130.0	1095.5	1079.4	1057.9	1022.4	1029.4	1049.2	1051.9	1082.7	1141.7
35°	1109.9	1102.5	1059.9	1032.5	1011.3	972.5	979.8	993.6	997.6	1027.8	1087.8
37.5°	1080.4	1068.6	1023.4	989.9	962.8	921.9	923.9	938.0	942.0	972.5	1031.8
40°	1049.9	1033.1	984.5	945.3	914.2	871.3	868.9	883.7	886.7	916.5	970.1
42.5°	1017.4	997.3	942.6	899.8	863.9	820.3	815.6	828.4	831.7	860.9	913.5
45°	984.5	960.4	899.8	852.8	813.6	769.1	764.4	774.1	779.1	806.6	857.2
47.5°	949.7	921.5	855.5	803.2	762.7	718.1	712.4	722.2	726.2	753.3	801.2
50°	913.2	879.0	809.9	752.3	712.1	668.2	659.8	671.2	674.9	700.4	747.3
52.5°	872.9	835.1	761.4	701.0	660.8	618.9	608.9	619.9	624.3	649.1	692.3
55°	830.4	789.5	712.4	653.8	610.2	569.3	561.0	565.3	574.7	598.2	638.4
57.5°	782.5	741.9	660.8	601.2	559.3	520.1	513.0	517.1	525.8	548.6	584.8
60°	731.5	688.6	608.2	548.6	508.0	470.8	464.5	468.1	477.5	498.3	531.8
62.5°	681.3	633.0	553.9	494.6	457.8	423.2	421.6	420.2	428.9	449.0	478.5
65°	620.3	574.0	497.3	441.0	407.5	376.3	369.6	372.6	381.0	399.4	430.3
67.5°	554.9	513.0	439.3	387.4	357.6	329.7	324.0	325.4	334.1	350.2	377.0
70°	485.6	448.7	380.0	333.4	308.3	282.2	278.5	278.8	287.2	301.3	324.7
72.5°	412.8	379.7	320.0	280.1	259.4	240.6	237.3	233.2	240.9	253.0	273.1
75°	338.8	309.6	260.4	227.9	211.5	195.7	192.7	188.7	196.4	206.8	222.5
77.5°	264.1	240.6	202.4	177.3	164.5	152.8	150.1	145.8	153.5	161.2	173.6
80°	191.0	173.9	151.1	124.7	120.3	112.6	109.9	105.2	112.6	117.6	127.0
82.5°	123.3	111.9	98.9	80.4	79.8	74.1	72.7	67.4	74.1	77.1	84.1
85°	62.3	57.0	53.6	40.9	42.2	38.5	38.2	32.5	37.9	39.2	43.2
87.5°	17.8	18.8	16.8	10.1	12.7	12.1	12.1	8.7	12.1	12.1	13.7
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: P837916

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6	1436.6
2.5°	1437.9	1443.6	1445.0	1444.6	1448.3	1468.4	1461.7	1468.4
5°	1441.3	1454.0	1457.4	1462.1	1468.1	1490.9	1483.5	1491.6
7.5°	1443.3	1462.4	1469.8	1478.8	1488.5	1514.0	1508.0	1516.0
10°	1443.3	1468.1	1478.8	1493.9	1507.0	1536.5	1530.8	1540.1
12.5°	1437.3	1469.1	1484.2	1505.3	1522.0	1553.9	1551.5	1558.2
15°	1424.9	1464.1	1484.8	1512.0	1532.8	1568.3	1567.3	1575.3
17.5°	1408.1	1455.4	1480.5	1514.7	1540.8	1580.7	1583.0	1587.4
20°	1387.0	1438.9	1471.8	1513.7	1546.5	1590.4	1593.4	1599.5
22.5°	1359.2	1419.2	1458.7	1509.3	1547.2	1594.4	1599.8	1605.5
25°	1326.3	1395.4	1441.6	1500.9	1543.8	1594.1	1601.5	1606.5
27.5°	1288.8	1364.5	1419.8	1487.5	1534.4	1588.7	1597.8	1603.8
30°	1245.2	1331.7	1395.0	1470.1	1521.7	1578.7	1588.4	1594.4
32.5°	1200.3	1295.5	1365.6	1447.7	1503.3	1562.6	1571.0	1575.7
35°	1151.4	1251.6	1330.0	1418.8	1479.5	1536.8	1543.2	1548.2
37.5°	1098.1	1204.0	1289.5	1386.3	1446.0	1500.9	1506.6	1512.3
40°	1043.2	1154.1	1243.9	1346.5	1406.1	1457.0	1463.1	1467.1
42.5°	987.9	1098.8	1195.3	1299.5	1358.9	1407.8	1411.5	1415.5
45°	931.9	1041.5	1140.7	1247.6	1306.2	1352.1	1353.5	1356.8
47.5°	875.0	982.2	1080.7	1188.3	1246.3	1288.1	1289.5	1292.2
50°	817.7	922.9	1016.7	1124.3	1180.9	1225.1	1219.1	1221.8
52.5°	761.4	860.5	956.4	1055.2	1111.2	1150.4	1152.1	1146.7
55°	706.1	799.6	887.7	982.9	1036.1	1066.6	1065.6	1067.6
57.5°	650.1	737.9	818.7	905.8	957.7	986.5	992.6	985.5
60°	593.1	675.6	748.0	826.7	877.0	901.1	908.1	901.4
62.5°	536.5	612.2	677.9	746.6	793.2	823.0	822.3	815.0
65°	479.9	548.6	607.2	665.5	706.1	735.9	734.5	727.8
67.5°	427.6	484.2	536.8	584.1	619.3	639.7	646.8	638.7
70°	370.0	418.9	465.1	503.0	532.1	550.6	557.3	550.2
72.5°	312.3	353.9	386.4	422.9	445.4	460.8	467.8	461.1
75°	255.3	289.5	316.0	344.5	360.2	373.3	381.3	374.6
77.5°	200.1	226.5	247.6	268.4	286.5	289.5	296.6	292.2
80°	147.4	166.5	182.0	195.7	208.8	210.1	215.8	213.1
82.5°	98.2	110.9	114.9	129.4	137.7	136.4	142.1	140.1
85°	51.9	59.6	66.7	71.0	75.7	71.4	76.4	74.4
87.5°	17.4	18.4	16.1	22.8	25.1	21.4	24.5	23.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)