

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: P837787

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1HI-30-120-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: P837787
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-LD4-1HI-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

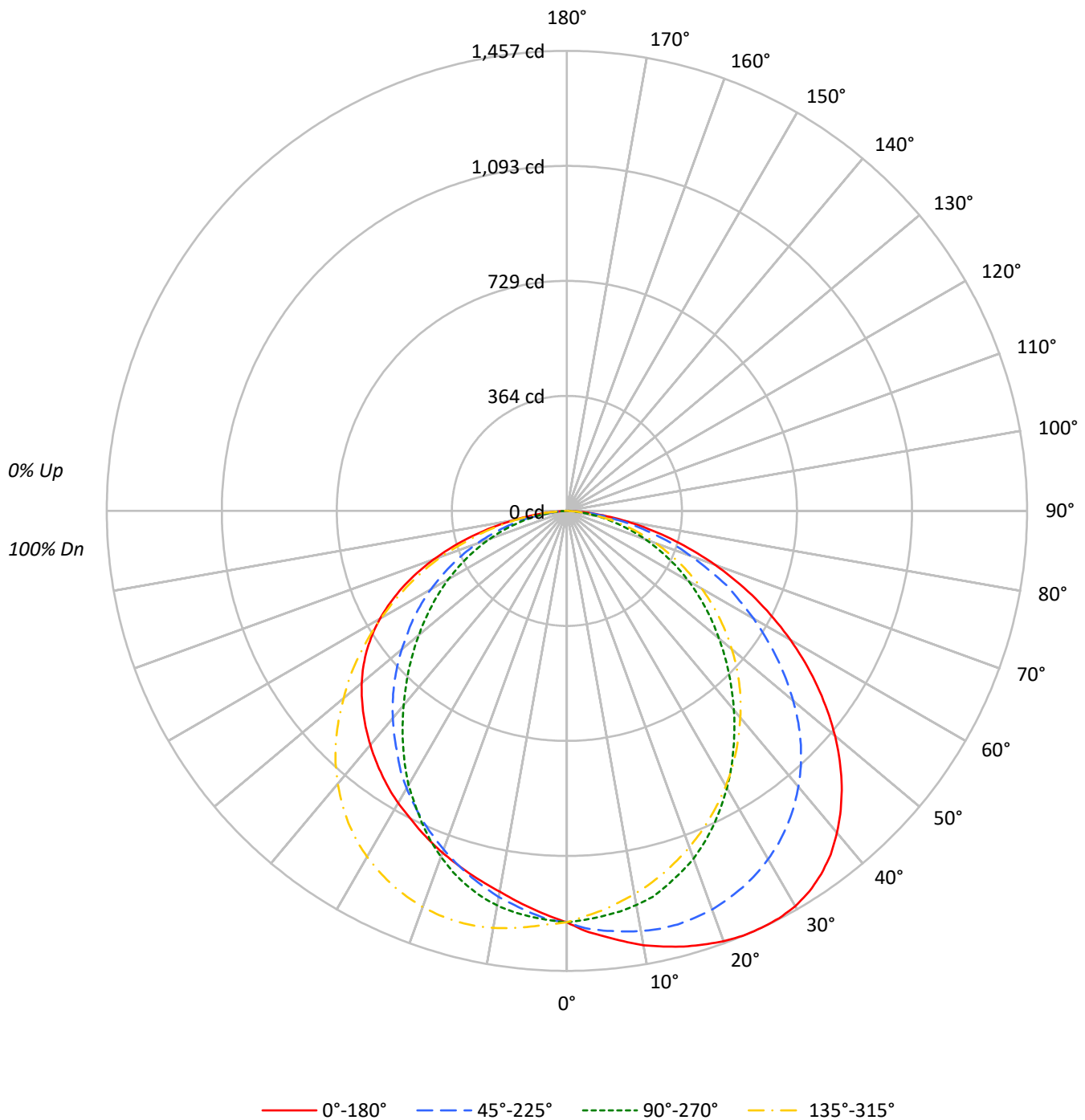
Lumens per Lamp: N/A
Luminaire Lumens: 3822.8 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3506	3506	3506	3506
5°	3654	3481	3415	3487
10°	3817	3463	3346	3468
15°	3981	3419	3313	3420
20°	4154	3357	3299	3338
25°	4326	3263	3298	3230
30°	4493	3150	3320	3115
35°	4613	3020	3354	2972
40°	4674	2890	3400	2825
45°	4683	2759	3467	2689
50°	4639	2632	3551	2563
55°	4543	2515	3630	2446
60°	4400	2393	3679	2331
65°	4204	2253	3659	2201
70°	3927	2087	3530	2050
75°	3533	1861	3239	1852
80°	2996	1559	2723	1582
85°	2084	1031	1726	1059

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	3.2
10°-20°	358.2	9.4
20°-30°	549.0	14.4
30°-40°	667.6	17.5
40°-50°	694.0	18.2
50°-60°	626.9	16.4
60°-70°	476.6	12.5
70°-80°	265.7	7.0
80°-90°	61.2	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°	1030.9	27.0
0°-40°	1698.5	44.4
0°-60°	3019.3	79.0
0°-90°	3822.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1303	1303	1303	1303	1303	
5°	1353	1289	1264	1291	1353	130
15°	1429	1227	1189	1228	1429	405
25°	1457	1099	1111	1088	1457	673
35°	1404	919	1021	905	1404	877
45°	1231	725	911	707	1231	947
55°	968	536	774	521	968	864
65°	660	354	575	346	660	652
75°	340	179	312	178	340	361
85°	68	33	56	34	68	85
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°	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1331.9	1312.4	1312.7	1329.7	1316.7	1323.0	1304.8	1311.8	1309.7	1311.2	1296.3
5°	1352.8	1331.9	1331.6	1346.1	1331.6	1334.3	1311.2	1315.7	1309.1	1304.8	1288.7
7.5°	1375.0	1354.0	1351.9	1364.7	1345.5	1343.4	1317.9	1317.9	1305.7	1295.1	1279.9
10°	1396.9	1375.3	1372.6	1382.3	1358.6	1351.6	1320.6	1315.7	1299.6	1283.8	1267.4
12.5°	1413.3	1391.4	1389.3	1395.4	1368.6	1355.9	1320.6	1311.2	1287.5	1265.3	1252.5
15°	1428.8	1406.3	1400.5	1403.6	1372.9	1355.9	1316.4	1301.8	1271.4	1242.2	1227.3
17.5°	1439.8	1418.2	1412.4	1412.1	1375.0	1350.7	1307.2	1287.2	1250.7	1215.4	1200.6
20°	1450.7	1429.1	1421.8	1416.3	1374.4	1343.7	1293.9	1266.8	1224.3	1184.7	1172.3
22.5°	1456.2	1434.0	1426.1	1417.9	1370.5	1330.9	1277.4	1243.1	1194.5	1147.4	1137.0
25°	1457.1	1434.3	1425.8	1413.9	1362.6	1315.7	1256.2	1214.5	1160.1	1107.9	1099.0
27.5°	1454.6	1429.7	1421.2	1406.9	1350.7	1297.2	1230.9	1182.0	1123.7	1065.9	1056.5
30°	1446.1	1420.9	1412.7	1394.2	1334.0	1274.4	1203.3	1145.8	1083.2	1021.8	1013.6
32.5°	1429.1	1404.5	1397.8	1379.3	1315.7	1248.0	1171.1	1106.9	1038.6	979.9	967.7
35°	1404.2	1379.6	1375.3	1355.9	1290.2	1216.4	1135.8	1064.4	991.1	931.3	919.4
37.5°	1371.7	1351.0	1344.6	1325.5	1260.1	1180.5	1095.4	1018.2	942.8	878.4	871.1
40°	1330.6	1311.2	1306.3	1289.3	1225.2	1140.7	1051.6	970.5	893.0	833.1	822.8
42.5°	1283.8	1265.6	1262.9	1245.2	1182.0	1096.6	1004.2	920.9	841.0	783.2	772.9
45°	1230.6	1213.0	1212.4	1195.7	1134.9	1047.7	954.4	870.8	790.2	730.4	724.9
47.5°	1172.0	1156.2	1156.2	1140.7	1082.3	993.9	903.0	818.5	739.2	686.3	676.6
50°	1108.2	1093.3	1088.7	1081.1	1024.3	935.2	848.9	767.4	688.7	638.3	628.8
52.5°	1040.1	1027.3	1030.3	1016.4	961.4	874.1	794.2	710.0	638.0	592.1	582.6
55°	968.3	950.1	952.8	947.7	895.7	811.2	732.8	662.6	588.1	545.0	536.1
57.5°	893.9	870.2	879.9	876.9	825.8	746.8	676.6	608.8	538.6	498.8	490.3
60°	817.6	794.8	804.8	802.1	754.1	682.3	618.5	555.6	489.3	453.2	444.7
62.5°	739.2	718.2	727.3	725.2	681.1	616.4	560.8	503.0	439.8	407.3	399.4
65°	660.2	640.1	648.3	646.8	606.1	556.8	501.5	448.6	390.0	361.7	353.8
67.5°	579.3	560.8	568.4	568.4	531.0	483.9	441.9	393.6	341.0	316.7	309.4
70°	499.1	481.7	488.4	487.8	456.2	417.9	381.7	338.6	291.5	271.4	265.3
72.5°	418.2	403.0	409.1	408.5	382.0	357.4	321.6	284.2	243.1	227.0	221.6
75°	339.8	325.5	331.3	330.7	309.1	286.0	262.0	231.0	195.7	184.5	179.0
77.5°	265.0	250.4	255.3	255.3	239.5	222.8	203.6	179.6	154.7	142.5	138.6
80°	193.3	186.3	183.9	184.2	173.5	162.6	152.9	129.8	111.5	103.3	100.6
82.5°	127.0	121.3	118.8	119.4	113.4	106.7	100.6	84.5	72.3	67.5	66.0
85°	67.5	63.2	61.1	62.6	61.4	57.7	54.7	43.8	36.2	34.3	33.4
87.5°	21.3	18.5	17.0	22.5	19.1	17.0	16.4	13.1	10.0	10.0	9.7
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°	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1301.2	1301.2	1289.3	1286.6	1285.4	1286.9	1275.0	1272.9	1289.9	1284.1	1271.1
5°	1290.8	1290.2	1273.5	1270.5	1270.5	1268.6	1255.3	1252.2	1269.2	1264.4	1250.1
7.5°	1278.1	1276.2	1256.5	1254.3	1251.3	1250.1	1235.2	1233.1	1247.7	1244.6	1231.3
10°	1262.6	1260.7	1237.3	1235.8	1232.5	1230.0	1216.1	1214.5	1229.4	1224.6	1213.9
12.5°	1242.2	1238.8	1214.8	1213.3	1210.6	1209.7	1196.0	1195.4	1211.8	1206.9	1195.7
15°	1215.4	1212.7	1186.0	1186.6	1186.9	1186.9	1175.9	1175.3	1191.4	1189.3	1177.1
17.5°	1186.0	1182.3	1156.8	1158.6	1160.7	1163.2	1154.7	1156.2	1173.2	1170.5	1159.5
20°	1152.5	1148.9	1124.0	1129.1	1133.7	1138.5	1133.1	1137.3	1153.1	1151.9	1143.7
22.5°	1115.1	1111.5	1088.4	1096.3	1103.9	1113.0	1110.6	1115.5	1132.2	1131.9	1124.6
25°	1069.6	1070.5	1050.1	1059.8	1072.6	1085.4	1086.3	1094.2	1112.7	1110.9	1104.2
27.5°	1027.0	1028.2	1006.6	1023.1	1040.1	1056.5	1060.4	1071.4	1090.2	1088.7	1082.9
30°	982.3	983.8	962.9	985.4	1006.0	1026.1	1034.6	1049.5	1068.6	1068.6	1062.6
32.5°	935.8	938.6	916.7	946.8	970.8	994.2	1009.1	1024.6	1046.5	1045.8	1040.7
35°	888.1	891.1	871.1	909.4	933.4	962.0	980.5	1001.2	1020.6	1020.9	1017.0
37.5°	839.5	843.1	824.9	866.8	894.2	927.9	951.6	972.3	993.9	995.1	991.4
40°	791.1	795.1	779.3	819.7	854.4	892.1	919.4	943.7	967.4	968.0	965.6
42.5°	742.8	747.1	735.2	774.7	813.9	854.4	886.6	914.2	938.6	940.1	937.3
45°	695.7	699.4	690.8	734.0	771.7	815.8	852.8	884.2	908.8	910.9	910.0
47.5°	648.9	652.2	644.7	684.2	727.6	774.4	817.3	851.9	878.1	880.5	879.9
50°	603.0	605.7	597.5	638.9	682.0	731.9	776.6	816.7	845.9	848.3	848.0
52.5°	557.4	560.2	553.2	596.6	635.8	688.4	737.0	780.5	809.4	813.0	813.6
55°	513.4	514.6	509.1	550.7	588.7	643.7	699.7	741.9	770.8	773.8	775.6
57.5°	469.3	469.6	465.0	504.8	541.3	597.5	656.2	700.6	727.9	731.0	733.7
60°	425.5	425.2	420.0	458.6	493.6	549.2	610.3	654.4	680.8	683.6	687.2
62.5°	382.0	381.1	376.6	412.1	445.0	500.0	561.4	603.9	629.2	631.0	635.8
65°	338.9	338.0	333.7	366.5	396.3	448.9	509.1	549.5	572.3	574.7	573.8
67.5°	296.3	294.5	291.2	320.7	347.7	396.3	454.1	492.7	511.5	513.7	519.4
70°	253.8	251.7	244.1	275.4	299.1	342.5	396.3	430.7	446.5	448.6	447.7
72.5°	211.8	209.7	201.5	230.4	250.4	288.4	336.5	365.0	378.7	380.5	380.5
75°	171.1	169.9	164.7	186.6	203.3	234.3	275.1	298.8	309.4	311.5	310.9
77.5°	131.9	131.0	125.8	144.7	157.7	180.8	213.7	232.2	240.1	242.5	247.7
80°	94.5	94.2	86.0	104.6	110.3	129.8	153.8	168.1	172.3	175.7	179.3
82.5°	60.5	60.8	52.6	68.4	70.8	83.3	98.2	107.0	110.0	112.8	115.5
85°	29.5	30.7	26.1	36.2	36.5	42.9	49.2	52.6	53.8	55.9	58.4
87.5°	7.6	8.8	4.9	10.3	9.1	11.9	13.7	14.6	14.3	15.8	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

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1275.3	1285.0	1280.2	1296.0	1302.1	1292.3	1309.4	1309.7	1297.5	1311.8	1319.7
5°	1255.6	1265.6	1262.6	1279.0	1286.6	1278.1	1298.7	1302.7	1290.8	1306.9	1319.7
7.5°	1235.5	1247.4	1243.4	1260.1	1269.2	1262.6	1284.7	1291.1	1282.0	1299.6	1316.7
10°	1218.2	1228.2	1224.0	1241.6	1249.5	1244.0	1265.9	1277.8	1269.2	1290.8	1311.2
12.5°	1201.2	1209.4	1204.5	1219.1	1226.7	1219.7	1246.4	1257.4	1251.3	1273.8	1299.9
15°	1179.3	1188.4	1181.7	1194.8	1200.6	1194.5	1216.4	1235.2	1227.6	1252.2	1281.1
17.5°	1162.6	1167.7	1158.6	1168.9	1172.3	1164.1	1186.3	1204.8	1199.3	1226.1	1259.5
20°	1144.0	1148.3	1135.5	1141.3	1141.0	1130.6	1151.0	1169.2	1165.6	1195.1	1233.1
22.5°	1123.4	1125.5	1110.6	1111.8	1111.2	1094.2	1112.4	1131.0	1129.4	1159.2	1201.8
25°	1101.5	1101.8	1082.6	1082.0	1075.3	1055.3	1071.4	1092.4	1087.8	1120.0	1164.7
27.5°	1079.9	1076.9	1053.8	1048.3	1037.6	1013.6	1027.9	1046.8	1044.0	1075.6	1125.2
30°	1056.8	1052.8	1024.6	1014.5	999.0	971.4	983.2	1000.9	1002.4	1030.0	1082.0
32.5°	1034.9	1024.9	993.6	979.0	959.5	927.3	933.7	951.6	954.1	982.0	1035.5
35°	1006.6	1000.0	961.4	936.4	917.3	882.0	888.7	901.2	904.8	932.2	986.6
37.5°	979.9	969.3	928.2	897.8	873.2	836.1	838.0	850.7	854.4	882.0	935.8
40°	952.2	937.0	893.0	857.4	829.1	790.2	788.1	801.5	804.2	831.3	879.9
42.5°	922.8	904.5	855.0	816.1	783.6	744.0	739.8	751.3	754.4	780.8	828.5
45°	893.0	871.1	816.1	773.5	738.0	697.5	693.3	702.1	706.7	731.6	777.5
47.5°	861.4	835.8	776.0	728.5	691.8	651.3	646.2	655.0	658.6	683.3	726.7
50°	828.2	797.2	734.6	682.3	645.9	606.1	598.5	608.8	612.1	635.2	677.8
52.5°	791.8	757.4	690.5	635.8	599.4	561.4	552.3	562.3	566.2	588.7	627.9
55°	753.2	716.1	646.2	593.0	553.5	516.4	508.8	512.7	521.3	542.5	579.0
57.5°	709.7	672.9	599.4	545.3	507.3	471.7	465.3	469.0	476.9	497.5	530.4
60°	663.5	624.6	551.6	497.5	460.8	427.0	421.3	424.6	433.1	452.0	482.3
62.5°	617.9	574.1	502.4	448.6	415.2	383.9	382.4	381.1	389.0	407.3	434.0
65°	562.6	520.6	451.0	400.0	369.6	341.3	335.2	338.0	345.6	362.3	390.3
67.5°	503.3	465.3	398.5	351.4	324.3	299.1	293.9	295.1	303.0	317.6	341.9
70°	440.4	407.0	344.7	302.4	279.6	255.9	252.6	252.9	260.5	273.2	294.5
72.5°	374.5	344.4	290.3	254.1	235.2	218.2	215.2	211.5	218.5	229.5	247.7
75°	307.3	280.8	236.2	206.7	191.8	177.5	174.8	171.1	178.1	187.5	201.8
77.5°	239.5	218.2	183.6	160.8	149.2	138.6	136.2	132.2	139.2	146.2	157.4
80°	173.2	157.7	137.1	113.1	109.1	102.1	99.7	95.4	102.1	106.7	115.2
82.5°	111.8	101.5	89.7	72.9	72.3	67.2	66.0	61.1	67.2	69.9	76.3
85°	56.5	51.7	48.6	37.1	38.3	35.0	34.6	29.5	34.3	35.6	39.2
87.5°	16.1	17.0	15.2	9.1	11.5	10.9	10.9	7.9	10.9	10.9	12.5
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: P837787

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1HI-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1304.2	1309.4	1310.6	1310.3	1313.6	1331.9	1325.8	1331.9
5°	1307.2	1318.8	1321.8	1326.1	1331.6	1352.2	1345.5	1352.8
7.5°	1309.1	1326.4	1333.1	1341.3	1350.1	1373.2	1367.7	1375.0
10°	1309.1	1331.6	1341.3	1355.0	1366.8	1393.6	1388.4	1396.9
12.5°	1303.6	1332.5	1346.1	1365.3	1380.5	1409.4	1407.2	1413.3
15°	1292.3	1327.9	1346.7	1371.4	1390.2	1422.4	1421.5	1428.8
17.5°	1277.1	1320.0	1342.8	1373.8	1397.5	1433.7	1435.8	1439.8
20°	1258.0	1305.1	1334.9	1372.9	1402.7	1442.5	1445.2	1450.7
22.5°	1232.8	1287.2	1323.0	1368.9	1403.3	1446.1	1451.0	1456.2
25°	1203.0	1265.6	1307.5	1361.3	1400.2	1445.8	1452.5	1457.1
27.5°	1168.9	1237.6	1287.8	1349.2	1391.7	1441.0	1449.2	1454.6
30°	1129.4	1207.8	1265.3	1333.4	1380.2	1431.8	1440.7	1446.1
32.5°	1088.7	1175.0	1238.5	1313.0	1363.5	1417.3	1424.9	1429.1
35°	1044.3	1135.2	1206.3	1286.9	1341.9	1393.9	1399.6	1404.2
37.5°	996.0	1092.0	1169.6	1257.4	1311.5	1361.3	1366.5	1371.7
40°	946.2	1046.8	1128.2	1221.2	1275.3	1321.5	1327.0	1330.6
42.5°	896.0	996.6	1084.1	1178.7	1232.5	1276.8	1280.2	1283.8
45°	845.3	944.6	1034.6	1131.6	1184.7	1226.4	1227.6	1230.6
47.5°	793.6	890.8	980.2	1077.8	1130.3	1168.3	1169.6	1172.0
50°	741.6	837.0	922.1	1019.7	1071.1	1111.2	1105.7	1108.2
52.5°	690.5	780.5	867.4	957.1	1007.9	1043.4	1044.9	1040.1
55°	640.4	725.2	805.1	891.4	939.8	967.4	966.5	968.3
57.5°	589.6	669.3	742.5	821.5	868.7	894.8	900.3	893.9
60°	538.0	612.7	678.4	749.8	795.4	817.3	823.7	817.6
62.5°	486.6	555.3	614.9	677.2	719.4	746.5	745.9	739.2
65°	435.2	497.5	550.7	603.6	640.4	667.4	666.2	660.2
67.5°	387.8	439.2	486.9	529.8	561.7	580.2	586.6	579.3
70°	335.5	379.9	421.9	456.2	482.7	499.4	505.4	499.1
72.5°	283.3	321.0	350.4	383.6	403.9	417.9	424.3	418.2
75°	231.6	262.6	286.6	312.4	326.7	338.6	345.9	339.8
77.5°	181.5	205.5	224.6	243.5	259.9	262.6	269.0	265.0
80°	133.7	151.1	165.0	177.5	189.4	190.6	195.7	193.3
82.5°	89.1	100.6	104.3	117.3	124.9	123.7	128.9	127.0
85°	47.1	54.1	60.5	64.4	68.7	64.7	69.3	67.5
87.5°	15.8	16.7	14.6	20.7	22.8	19.5	22.2	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)