

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: P837750

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1STD-40-120-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: P837750
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-LD4-1STD-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

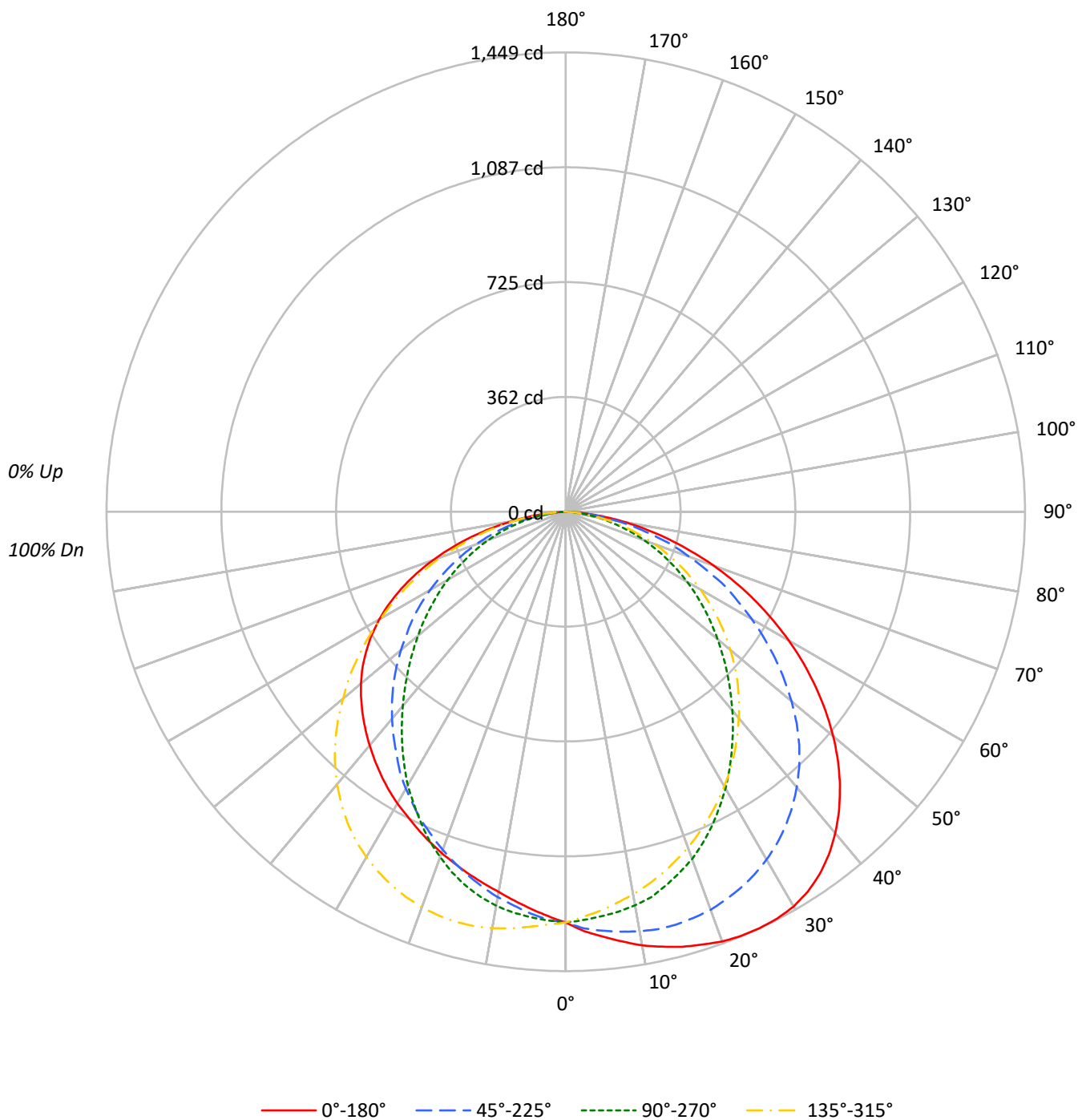
Lumens per Lamp: N/A
Luminaire Lumens: 3800.8 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3486	3486	3486	3486
5°	3633	3461	3396	3467
10°	3795	3443	3327	3448
15°	3958	3400	3294	3400
20°	4131	3338	3280	3319
25°	4301	3244	3279	3211
30°	4468	3132	3301	3097
35°	4586	3003	3335	2955
40°	4647	2873	3381	2809
45°	4657	2743	3447	2674
50°	4613	2617	3531	2548
55°	4517	2501	3610	2432
60°	4375	2379	3658	2317
65°	4180	2240	3638	2188
70°	3904	2076	3509	2038
75°	3513	1851	3220	1841
80°	2978	1550	2707	1573
85°	2072	1025	1717	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.2
10°-20°	356.2	9.4
20°-30°	545.9	14.4
30°-40°	663.7	17.5
40°-50°	690.0	18.2
50°-60°	623.3	16.4
60°-70°	473.8	12.5
70°-80°	264.2	7.0
80°-90°	60.8	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°	1025.0	27.0
0°-40°	1688.8	44.4
0°-60°	3002.0	79.0
0°-90°	3800.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1345	1281	1257	1283	1345	130
15°	1421	1220	1182	1221	1421	403
25°	1449	1093	1104	1082	1449	669
35°	1396	914	1015	900	1396	872
45°	1224	721	906	703	1224	942
55°	963	533	769	518	963	859
65°	656	352	571	344	656	649
75°	338	178	310	177	338	359
85°	67	33	56	34	67	84
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°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1324.2	1304.9	1305.2	1322.1	1309.1	1315.4	1297.3	1304.3	1302.2	1303.7	1288.9
5°	1345.1	1324.2	1323.9	1338.4	1323.9	1326.6	1303.7	1308.2	1301.5	1297.3	1281.3
7.5°	1367.1	1346.3	1344.2	1356.8	1337.8	1335.7	1310.3	1310.3	1298.2	1287.6	1272.5
10°	1388.9	1367.4	1364.7	1374.4	1350.8	1343.9	1313.0	1308.2	1292.2	1276.5	1260.1
12.5°	1405.2	1383.4	1381.3	1387.4	1360.8	1348.1	1313.0	1303.7	1280.1	1258.0	1245.3
15°	1420.6	1398.3	1392.5	1395.5	1365.0	1348.1	1308.8	1294.3	1264.1	1235.1	1220.3
17.5°	1431.5	1410.0	1404.3	1404.0	1367.1	1342.9	1299.7	1279.8	1243.5	1208.5	1193.7
20°	1442.4	1420.9	1413.7	1408.2	1366.5	1336.0	1286.4	1259.5	1217.2	1178.0	1165.6
22.5°	1447.8	1425.8	1417.9	1409.7	1362.6	1323.3	1270.1	1236.0	1187.6	1140.8	1130.5
25°	1448.7	1426.1	1417.6	1405.8	1354.7	1308.2	1249.0	1207.6	1153.5	1101.5	1092.7
27.5°	1446.3	1421.5	1413.1	1398.9	1342.9	1289.8	1223.9	1175.2	1117.2	1059.8	1050.4
30°	1437.8	1412.8	1404.6	1386.2	1326.3	1267.1	1196.4	1139.3	1077.0	1016.0	1007.8
32.5°	1420.9	1396.4	1389.8	1371.4	1308.2	1240.8	1164.4	1100.6	1032.6	974.3	962.2
35°	1396.1	1371.7	1367.4	1348.1	1282.8	1209.4	1129.3	1058.3	985.5	925.9	914.1
37.5°	1363.8	1343.3	1336.9	1317.9	1252.9	1173.7	1089.1	1012.3	937.4	873.3	866.1
40°	1323.0	1303.7	1298.8	1281.9	1218.1	1134.1	1045.6	964.9	887.8	828.3	818.0
42.5°	1276.5	1258.3	1255.6	1238.1	1175.2	1090.3	998.4	915.6	836.2	778.8	768.5
45°	1223.6	1206.1	1205.5	1188.8	1128.4	1041.7	948.9	865.8	785.7	726.2	720.7
47.5°	1165.3	1149.5	1149.5	1134.1	1076.1	988.2	897.8	813.8	734.9	682.4	672.7
50°	1101.8	1087.0	1082.5	1074.9	1018.4	929.9	844.0	763.0	684.8	634.6	625.2
52.5°	1034.1	1021.4	1024.4	1010.5	955.8	869.1	789.6	705.9	634.3	588.7	579.3
55°	962.8	944.7	947.4	942.2	890.6	806.6	728.6	658.8	584.7	541.8	533.1
57.5°	888.8	865.2	874.9	871.8	821.1	742.5	672.7	605.3	535.5	495.9	487.4
60°	812.9	790.2	800.2	797.5	749.7	678.4	615.0	552.4	486.5	450.6	442.1
62.5°	734.9	714.1	723.1	721.0	677.2	612.8	557.5	500.1	437.3	404.9	397.1
65°	656.4	636.4	644.6	643.1	602.6	553.6	498.6	446.0	387.7	359.6	351.8
67.5°	576.0	557.5	565.1	565.1	527.9	481.1	439.4	391.3	339.1	314.9	307.6
70°	496.2	479.0	485.6	485.0	453.6	415.5	379.6	336.6	289.8	269.9	263.8
72.5°	415.8	400.7	406.8	406.1	379.9	355.4	319.7	282.6	241.8	225.7	220.3
75°	337.9	323.6	329.4	328.8	307.3	284.4	260.5	229.7	194.6	183.4	178.0
77.5°	263.5	249.0	253.8	253.8	238.1	221.5	202.5	178.6	153.8	141.7	137.8
80°	192.2	185.2	182.8	183.1	172.6	161.7	152.0	129.0	110.9	102.7	100.0
82.5°	126.3	120.6	118.2	118.8	112.7	106.1	100.0	84.0	71.9	67.1	65.6
85°	67.1	62.9	60.7	62.3	61.0	57.4	54.4	43.5	36.0	34.1	33.2
87.5°	21.2	18.4	16.9	22.4	19.0	16.9	16.3	13.0	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°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1293.7	1293.7	1281.9	1279.2	1278.0	1279.5	1267.7	1265.6	1282.5	1276.8	1263.8
5°	1283.4	1282.8	1266.2	1263.2	1263.2	1261.4	1248.1	1245.0	1262.0	1257.1	1242.9
7.5°	1270.7	1268.9	1249.3	1247.2	1244.1	1242.9	1228.1	1226.0	1240.5	1237.5	1224.2
10°	1255.3	1253.5	1230.2	1228.7	1225.4	1223.0	1209.1	1207.6	1222.4	1217.5	1207.0
12.5°	1235.1	1231.7	1207.9	1206.4	1203.6	1202.7	1189.1	1188.5	1204.8	1200.0	1188.8
15°	1208.5	1205.8	1179.2	1179.8	1180.1	1180.1	1169.2	1168.6	1184.6	1182.5	1170.4
17.5°	1179.2	1175.5	1150.1	1152.0	1154.1	1156.5	1148.0	1149.5	1166.5	1163.7	1152.9
20°	1145.9	1142.3	1117.5	1122.6	1127.2	1132.0	1126.6	1130.8	1146.5	1145.3	1137.2
22.5°	1108.7	1105.1	1082.2	1090.0	1097.6	1106.6	1104.2	1109.1	1125.7	1125.4	1118.1
25°	1063.4	1064.3	1044.1	1053.7	1066.4	1079.1	1080.0	1087.9	1106.3	1104.5	1097.9
27.5°	1021.1	1022.3	1000.9	1017.2	1034.1	1050.4	1054.4	1065.2	1084.0	1082.5	1076.7
30°	976.7	978.2	957.3	979.7	1000.3	1020.2	1028.7	1043.5	1062.5	1062.5	1056.5
32.5°	930.5	933.2	911.4	941.3	965.2	988.5	1003.3	1018.7	1040.5	1039.8	1034.7
35°	883.0	886.0	866.1	904.2	928.0	956.4	974.9	995.4	1014.8	1015.1	1011.1
37.5°	834.7	838.3	820.2	861.9	889.1	922.6	946.2	966.7	988.2	989.4	985.8
40°	786.6	790.5	774.8	815.0	849.5	886.9	914.1	938.3	961.9	962.5	960.1
42.5°	738.6	742.8	731.0	770.3	809.3	849.5	881.5	909.0	933.2	934.7	932.0
45°	691.7	695.3	686.9	729.8	767.3	811.1	848.0	879.1	903.6	905.7	904.8
47.5°	645.2	648.5	641.0	680.2	723.5	770.0	812.6	847.0	873.0	875.5	874.9
50°	599.6	602.3	594.1	635.2	678.1	727.7	772.1	812.0	841.0	843.4	843.1
52.5°	554.2	556.9	550.0	593.2	632.2	684.5	732.8	776.0	804.7	808.4	809.0
55°	510.4	511.6	506.2	547.6	585.3	640.0	695.6	737.7	766.4	769.4	771.2
57.5°	466.6	466.9	462.4	501.9	538.2	594.1	652.4	696.6	723.8	726.8	729.5
60°	423.1	422.8	417.6	456.0	490.8	546.1	606.8	650.6	676.9	679.6	683.3
62.5°	379.9	379.0	374.4	409.8	442.4	497.1	558.2	600.5	625.5	627.4	632.2
65°	336.9	336.0	331.8	364.4	394.1	446.3	506.2	546.4	569.0	571.4	570.5
67.5°	294.6	292.8	289.5	318.8	345.7	394.1	451.5	489.9	508.6	510.7	516.4
70°	252.3	250.2	242.7	273.8	297.4	340.6	394.1	428.2	443.9	446.0	445.1
72.5°	210.6	208.5	200.4	229.1	249.0	286.8	334.5	362.9	376.5	378.3	378.3
75°	170.1	168.9	163.8	185.5	202.2	233.0	273.5	297.1	307.6	309.7	309.1
77.5°	131.2	130.2	125.1	143.8	156.8	179.8	212.4	230.9	238.7	241.2	246.3
80°	94.0	93.7	85.5	104.0	109.7	129.0	152.9	167.1	171.3	174.7	178.3
82.5°	60.1	60.4	52.3	68.0	70.4	82.8	97.6	106.4	109.4	112.1	114.8
85°	29.3	30.5	26.0	36.0	36.3	42.6	49.0	52.3	53.5	55.6	58.0
87.5°	7.6	8.8	4.8	10.3	9.1	11.8	13.6	14.5	14.2	15.7	16.6
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°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1268.0	1277.7	1272.8	1288.6	1294.6	1284.9	1301.9	1302.2	1290.1	1304.3	1312.1
5°	1248.4	1258.3	1255.3	1271.6	1279.2	1270.7	1291.3	1295.2	1283.4	1299.4	1312.1
7.5°	1228.4	1240.2	1236.3	1252.9	1262.0	1255.3	1277.4	1283.7	1274.7	1292.2	1309.1
10°	1211.2	1221.2	1216.9	1234.5	1242.3	1236.9	1258.6	1270.4	1262.0	1283.4	1303.7
12.5°	1194.3	1202.4	1197.6	1212.1	1219.7	1212.7	1239.3	1250.2	1244.1	1266.5	1292.5
15°	1172.5	1181.6	1174.9	1187.9	1193.7	1187.6	1209.4	1228.1	1220.6	1245.0	1273.7
17.5°	1155.9	1161.0	1152.0	1162.2	1165.6	1157.4	1179.5	1197.9	1192.5	1219.0	1252.3
20°	1137.5	1141.7	1129.0	1134.7	1134.4	1124.2	1144.4	1162.5	1158.9	1188.2	1226.0
22.5°	1116.9	1119.0	1104.2	1105.4	1104.8	1087.9	1106.0	1124.5	1123.0	1152.6	1194.9
25°	1095.2	1095.5	1076.4	1075.8	1069.2	1049.2	1065.2	1086.1	1081.6	1113.6	1158.0
27.5°	1073.7	1070.7	1047.7	1042.3	1031.7	1007.8	1022.0	1040.8	1038.0	1069.5	1118.7
30°	1050.7	1046.8	1018.7	1008.7	993.3	965.8	977.6	995.1	996.6	1024.1	1075.8
32.5°	1029.0	1019.0	987.9	973.4	954.0	922.0	928.3	946.2	948.6	976.4	1029.6
35°	1000.9	994.2	955.8	931.1	912.0	877.0	883.6	896.0	899.6	926.8	980.9
37.5°	974.3	963.7	922.9	892.7	868.2	831.3	833.1	845.8	849.5	877.0	930.5
40°	946.8	931.7	887.8	852.5	824.4	785.7	783.6	796.9	799.6	826.5	874.9
42.5°	917.5	899.3	850.1	811.4	779.1	739.8	735.5	747.0	750.0	776.3	823.8
45°	887.8	866.1	811.4	769.1	733.7	693.5	689.3	698.1	702.6	727.4	773.0
47.5°	856.4	831.0	771.5	724.4	687.8	647.6	642.5	651.2	654.9	679.3	722.5
50°	823.5	792.7	730.4	678.4	642.2	602.6	595.0	605.3	608.6	631.6	673.9
52.5°	787.2	753.1	686.6	632.2	595.9	558.2	549.1	559.1	563.0	585.3	624.3
55°	748.8	712.0	642.5	589.6	550.3	513.4	505.9	509.8	518.3	539.4	575.7
57.5°	705.6	669.1	595.9	542.1	504.4	469.0	462.7	466.3	474.1	494.7	527.3
60°	659.7	621.0	548.5	494.7	458.1	424.6	418.8	422.2	430.6	449.4	479.6
62.5°	614.4	570.8	499.5	446.0	412.8	381.7	380.2	379.0	386.8	404.9	431.5
65°	559.4	517.7	448.5	397.7	367.5	339.4	333.3	336.0	343.6	360.2	388.0
67.5°	500.4	462.7	396.2	349.3	322.4	297.4	292.2	293.4	301.3	315.8	340.0
70°	437.9	404.6	342.7	300.7	278.0	254.4	251.1	251.4	259.0	271.7	292.8
72.5°	372.3	342.4	288.6	252.6	233.9	217.0	214.0	210.3	217.3	228.2	246.3
75°	305.5	279.2	234.8	205.5	190.7	176.5	173.8	170.1	177.1	186.5	200.7
77.5°	238.1	217.0	182.5	159.9	148.4	137.8	135.4	131.5	138.4	145.4	156.5
80°	172.3	156.8	136.3	112.4	108.5	101.5	99.1	94.9	101.5	106.1	114.5
82.5°	111.2	100.9	89.1	72.5	71.9	66.8	65.6	60.7	66.8	69.5	75.9
85°	56.2	51.4	48.4	36.9	38.1	34.8	34.5	29.3	34.1	35.4	39.0
87.5°	16.0	16.9	15.1	9.1	11.5	10.9	10.9	7.9	10.9	10.9	12.4
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: P837750

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1296.7	1301.9	1303.1	1302.8	1306.1	1324.2	1318.2	1324.2
5°	1299.7	1311.2	1314.2	1318.5	1323.9	1344.5	1337.8	1345.1
7.5°	1301.5	1318.8	1325.4	1333.6	1342.3	1365.3	1359.9	1367.1
10°	1301.5	1323.9	1333.6	1347.2	1359.0	1385.6	1380.4	1388.9
12.5°	1296.1	1324.8	1338.4	1357.5	1372.6	1401.3	1399.2	1405.2
15°	1284.9	1320.3	1339.0	1363.5	1382.2	1414.3	1413.4	1420.6
17.5°	1269.8	1312.4	1335.1	1365.9	1389.5	1425.4	1427.6	1431.5
20°	1250.8	1297.6	1327.2	1365.0	1394.6	1434.2	1436.9	1442.4
22.5°	1225.7	1279.8	1315.4	1361.1	1395.2	1437.8	1442.7	1447.8
25°	1196.1	1258.3	1300.0	1353.5	1392.2	1437.5	1444.2	1448.7
27.5°	1162.2	1230.5	1280.4	1341.4	1383.7	1432.7	1440.9	1446.3
30°	1123.0	1200.9	1258.0	1325.7	1372.3	1423.6	1432.4	1437.8
32.5°	1082.5	1168.3	1231.4	1305.5	1355.6	1409.1	1416.7	1420.9
35°	1038.3	1128.7	1199.4	1279.5	1334.2	1385.9	1391.6	1396.1
37.5°	990.3	1085.8	1162.8	1250.2	1304.0	1353.5	1358.7	1363.8
40°	940.7	1040.8	1121.7	1214.2	1268.0	1313.9	1319.4	1323.0
42.5°	890.9	990.9	1077.9	1171.9	1225.4	1269.5	1272.8	1276.5
45°	840.4	939.2	1028.7	1125.1	1178.0	1219.4	1220.6	1223.6
47.5°	789.0	885.7	974.6	1071.6	1123.9	1161.6	1162.8	1165.3
50°	737.4	832.2	916.9	1013.9	1064.9	1104.8	1099.4	1101.8
52.5°	686.6	776.0	862.5	951.6	1002.1	1037.4	1038.9	1034.1
55°	636.7	721.0	800.5	886.3	934.4	961.9	961.0	962.8
57.5°	586.3	665.4	738.3	816.8	863.7	889.7	895.1	888.8
60°	534.9	609.2	674.5	745.5	790.8	812.6	818.9	812.9
62.5°	483.8	552.1	611.3	673.3	715.3	742.2	741.6	734.9
65°	432.7	494.7	547.6	600.2	636.7	663.6	662.4	656.4
67.5°	385.6	436.7	484.1	526.7	558.5	576.9	583.2	576.0
70°	333.6	377.7	419.4	453.6	479.9	496.5	502.5	496.2
72.5°	281.6	319.1	348.4	381.4	401.6	415.5	421.9	415.8
75°	230.3	261.1	285.0	310.7	324.9	336.6	343.9	337.9
77.5°	180.4	204.3	223.3	242.1	258.4	261.1	267.4	263.5
80°	133.0	150.2	164.1	176.5	188.3	189.5	194.6	192.2
82.5°	88.5	100.0	103.7	116.6	124.2	123.0	128.1	126.3
85°	46.8	53.8	60.1	64.1	68.3	64.4	68.9	67.1
87.5°	15.7	16.6	14.5	20.5	22.7	19.3	22.1	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)