

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: P838056

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1STD-27-120-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: P838056
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-1STD-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

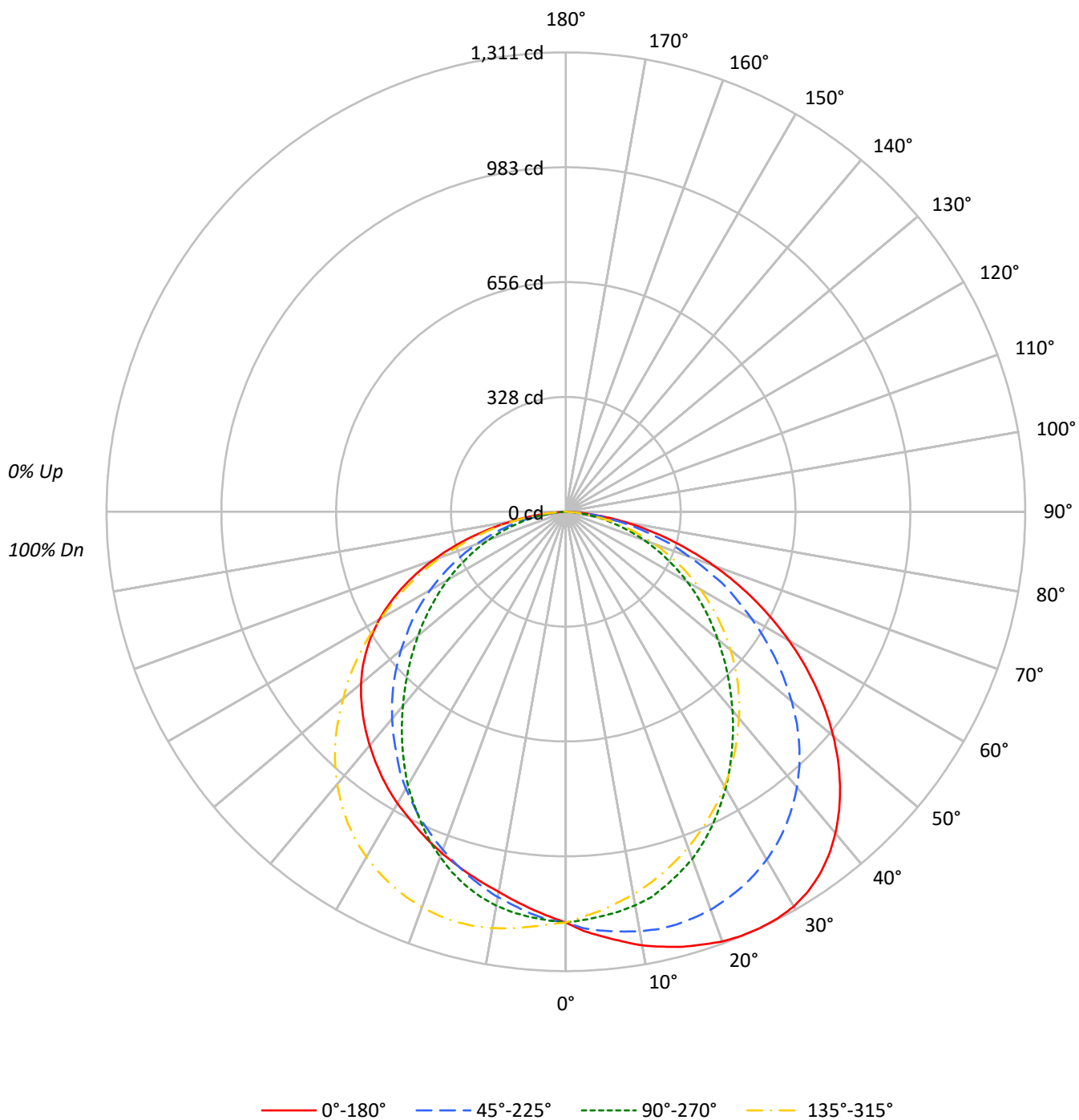
Lumens per Lamp: N/A
Luminaire Lumens: 3438.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1577	1577	1577	1577
5°	1644	1566	1536	1568
10°	1717	1558	1505	1560
15°	1790	1538	1490	1538
20°	1869	1510	1484	1501
25°	1946	1468	1484	1453
30°	2021	1417	1494	1401
35°	2075	1358	1509	1337
40°	2102	1300	1529	1271
45°	2106	1241	1559	1210
50°	2087	1184	1597	1153
55°	2043	1131	1633	1100
60°	1979	1076	1655	1048
65°	1890	1013	1646	990
70°	1766	939	1587	922
75°	1589	837	1457	833
80°	1347	701	1224	712
85°	937	465	777	477

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	3.2
10°-20°	322.2	9.4
20°-30°	493.9	14.4
30°-40°	600.5	17.5
40°-50°	624.3	18.2
50°-60°	563.9	16.4
60°-70°	428.7	12.5
70°-80°	239.0	7.0
80°-90°	55.0	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°	927.4	27.0
0°-40°	1527.9	44.4
0°-60°	2716.0	79.0
0°-90°	3438.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1172	1172	1172	1172	1172	
5°	1217	1159	1137	1161	1217	117
15°	1285	1104	1070	1104	1285	364
25°	1311	989	999	978	1311	605
35°	1263	827	918	814	1263	789
45°	1107	652	819	636	1107	852
55°	871	482	696	469	871	778
65°	594	318	517	311	594	587
75°	306	161	280	160	306	325
85°	61	30	50	31	61	76
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°	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1198.1	1180.6	1180.8	1196.1	1184.4	1190.1	1173.7	1180.0	1178.1	1179.5	1166.1
5°	1216.9	1198.1	1197.8	1210.9	1197.8	1200.2	1179.5	1183.6	1177.6	1173.7	1159.2
7.5°	1236.9	1218.0	1216.1	1227.6	1210.4	1208.4	1185.5	1185.5	1174.5	1165.0	1151.3
10°	1256.6	1237.2	1234.7	1243.4	1222.1	1215.8	1187.9	1183.6	1169.1	1154.9	1140.1
12.5°	1271.3	1251.6	1249.7	1255.2	1231.1	1219.7	1187.9	1179.5	1158.1	1138.2	1126.7
15°	1285.3	1265.0	1259.8	1262.6	1235.0	1219.7	1184.1	1171.0	1143.6	1117.4	1104.0
17.5°	1295.1	1275.7	1270.5	1270.2	1236.9	1215.0	1175.9	1157.9	1125.1	1093.3	1079.9
20°	1305.0	1285.5	1279.0	1274.1	1236.3	1208.7	1163.9	1139.5	1101.3	1065.7	1054.5
22.5°	1309.9	1289.9	1282.8	1275.4	1232.8	1197.2	1149.1	1118.2	1074.5	1032.1	1022.8
25°	1310.7	1290.2	1282.5	1271.9	1225.7	1183.6	1130.0	1092.5	1043.6	996.6	988.6
27.5°	1308.5	1286.1	1278.4	1265.6	1215.0	1166.9	1107.3	1063.3	1010.8	958.8	950.4
30°	1300.9	1278.2	1270.8	1254.1	1200.0	1146.4	1082.4	1030.7	974.4	919.2	911.8
32.5°	1285.5	1263.4	1257.4	1240.7	1183.6	1122.6	1053.4	995.7	934.2	881.5	870.5
35°	1263.1	1241.0	1237.2	1219.7	1160.6	1094.2	1021.7	957.5	891.6	837.7	827.0
37.5°	1233.9	1215.3	1209.5	1192.3	1133.5	1061.9	985.3	915.9	848.1	790.1	783.6
40°	1197.0	1179.5	1175.1	1159.8	1102.1	1026.1	946.0	873.0	803.3	749.4	740.1
42.5°	1154.9	1138.5	1136.0	1120.1	1063.3	986.4	903.3	828.4	756.5	704.6	695.3
45°	1107.0	1091.2	1090.6	1075.6	1020.9	942.4	858.5	783.3	710.8	657.0	652.1
47.5°	1054.2	1040.0	1040.0	1026.1	973.6	894.0	812.3	736.3	664.9	617.3	608.6
50°	996.8	983.4	979.3	972.5	921.4	841.3	763.6	690.3	619.5	574.1	565.7
52.5°	935.6	924.1	926.8	914.3	864.8	786.3	714.4	638.7	573.9	532.6	524.1
55°	871.1	854.7	857.1	852.5	805.7	729.7	659.2	596.0	529.0	490.2	482.3
57.5°	804.1	782.8	791.5	788.8	742.8	671.8	608.6	547.6	484.5	448.7	441.0
60°	735.5	715.0	724.0	721.5	678.3	613.8	556.4	499.8	440.2	407.6	400.0
62.5°	664.9	646.1	654.3	652.3	612.7	554.5	504.4	452.5	395.6	366.4	359.3
65°	593.8	575.8	583.2	581.8	545.2	500.9	451.1	403.5	350.8	325.4	318.2
67.5°	521.1	504.4	511.3	511.3	477.6	435.3	397.5	354.1	306.8	284.9	278.3
70°	448.9	433.3	439.4	438.8	410.4	375.9	343.4	304.6	262.2	244.1	238.7
72.5°	376.2	362.5	368.0	367.5	343.7	321.5	289.3	255.6	218.7	204.2	199.3
75°	305.7	292.8	298.0	297.5	278.1	257.3	235.7	207.8	176.1	166.0	161.0
77.5°	238.4	225.3	229.7	229.7	215.4	200.4	183.2	161.6	139.2	128.2	124.7
80°	173.9	167.6	165.4	165.7	156.1	146.3	137.5	116.7	100.3	93.0	90.5
82.5°	114.3	109.1	106.9	107.4	102.0	96.0	90.5	76.0	65.1	60.7	59.3
85°	60.7	56.9	55.0	56.3	55.2	51.9	49.2	39.4	32.5	30.9	30.1
87.5°	19.1	16.7	15.3	20.2	17.2	15.3	14.8	11.8	9.0	9.0	8.7
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°	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1170.4	1170.4	1159.8	1157.3	1156.2	1157.6	1146.9	1145.0	1160.3	1155.1	1143.4
5°	1161.1	1160.6	1145.6	1142.8	1142.8	1141.2	1129.2	1126.4	1141.7	1137.4	1124.5
7.5°	1149.7	1148.0	1130.3	1128.3	1125.6	1124.5	1111.1	1109.2	1122.3	1119.6	1107.6
10°	1135.7	1134.1	1113.0	1111.7	1108.7	1106.5	1093.9	1092.5	1105.9	1101.5	1092.0
12.5°	1117.4	1114.4	1092.8	1091.4	1089.0	1088.1	1075.8	1075.3	1090.1	1085.7	1075.6
15°	1093.3	1090.9	1066.8	1067.4	1067.6	1067.6	1057.8	1057.3	1071.7	1069.8	1058.9
17.5°	1066.8	1063.5	1040.6	1042.2	1044.1	1046.3	1038.7	1040.0	1055.3	1052.9	1043.0
20°	1036.7	1033.5	1011.0	1015.7	1019.8	1024.2	1019.2	1023.1	1037.3	1036.2	1028.8
22.5°	1003.1	999.8	979.1	986.2	993.0	1001.2	999.0	1003.4	1018.4	1018.2	1011.6
25°	962.1	962.9	944.6	953.4	964.8	976.3	977.1	984.3	1000.9	999.3	993.3
27.5°	923.8	924.9	905.5	920.3	935.6	950.4	953.9	963.7	980.7	979.3	974.1
30°	883.6	885.0	866.1	886.4	905.0	923.0	930.7	944.1	961.3	961.3	955.8
32.5°	841.8	844.3	824.6	851.7	873.3	894.3	907.7	921.6	941.3	940.8	936.1
35°	798.9	801.6	783.6	818.0	839.6	865.3	882.0	900.6	918.1	918.4	914.8
37.5°	755.1	758.4	742.0	779.7	804.4	834.7	856.0	874.6	894.0	895.1	891.8
40°	711.7	715.2	701.0	737.4	768.5	802.4	827.0	848.9	870.2	870.8	868.6
42.5°	668.2	672.0	661.4	696.9	732.2	768.5	797.5	822.4	844.3	845.6	843.2
45°	625.8	629.1	621.4	660.3	694.2	733.8	767.2	795.3	817.5	819.4	818.6
47.5°	583.7	586.7	579.9	615.4	654.5	696.6	735.2	766.4	789.9	792.1	791.5
50°	542.4	544.9	537.5	574.7	613.5	658.4	698.5	734.6	760.9	763.1	762.8
52.5°	501.4	503.9	497.6	536.7	572.0	619.3	663.0	702.1	728.1	731.4	731.9
55°	461.8	462.9	458.0	495.4	529.6	579.1	629.4	667.4	693.4	696.1	697.7
57.5°	422.1	422.4	418.3	454.1	486.9	537.5	590.3	630.2	654.8	657.5	660.0
60°	382.8	382.5	377.8	412.6	444.0	494.0	549.0	588.6	612.4	614.9	618.2
62.5°	343.7	342.8	338.7	370.7	400.3	449.7	505.0	543.3	565.9	567.6	572.0
65°	304.8	304.0	300.2	329.7	356.5	403.8	458.0	494.3	514.8	517.0	516.2
67.5°	266.6	264.9	261.9	288.4	312.8	356.5	408.5	443.2	460.1	462.1	467.2
70°	228.3	226.4	219.5	247.7	269.0	308.1	356.5	387.4	401.6	403.5	402.7
72.5°	190.6	188.6	181.3	207.2	225.3	259.5	302.7	328.4	340.7	342.3	342.3
75°	153.9	152.8	148.2	167.9	182.9	210.8	247.4	268.8	278.3	280.2	279.7
77.5°	118.7	117.8	113.2	130.1	141.9	162.7	192.2	208.9	216.0	218.2	222.8
80°	85.0	84.8	77.4	94.1	99.2	116.7	138.3	151.2	155.0	158.0	161.3
82.5°	54.4	54.7	47.3	61.5	63.7	74.9	88.3	96.2	99.0	101.4	103.9
85°	26.5	27.6	23.5	32.5	32.8	38.5	44.3	47.3	48.4	50.3	52.5
87.5°	6.8	7.9	4.4	9.3	8.2	10.7	12.3	13.1	12.8	14.2	15.0
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°	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1147.2	1156.0	1151.6	1165.8	1171.3	1162.5	1177.8	1178.1	1167.2	1180.0	1187.1
5°	1129.4	1138.5	1135.7	1150.5	1157.3	1149.7	1168.3	1171.8	1161.1	1175.6	1187.1
7.5°	1111.4	1122.0	1118.5	1133.5	1141.7	1135.7	1155.7	1161.4	1153.2	1169.1	1184.4
10°	1095.8	1104.8	1101.0	1116.9	1124.0	1119.0	1138.7	1149.4	1141.7	1161.1	1179.5
12.5°	1080.5	1087.9	1083.5	1096.6	1103.5	1097.2	1121.2	1131.1	1125.6	1145.8	1169.3
15°	1060.8	1069.0	1063.0	1074.8	1079.9	1074.5	1094.2	1111.1	1104.3	1126.4	1152.4
17.5°	1045.8	1050.4	1042.2	1051.5	1054.5	1047.1	1067.1	1083.8	1078.9	1102.9	1133.0
20°	1029.1	1032.9	1021.4	1026.6	1026.4	1017.1	1035.4	1051.8	1048.5	1075.0	1109.2
22.5°	1010.5	1012.4	999.0	1000.1	999.6	984.3	1000.7	1017.3	1016.0	1042.8	1081.0
25°	990.8	991.1	973.9	973.3	967.3	949.3	963.7	982.6	978.5	1007.5	1047.7
27.5°	971.4	968.7	947.9	943.0	933.4	911.8	924.7	941.6	939.1	967.6	1012.1
30°	950.6	947.1	921.6	912.6	898.7	873.8	884.5	900.3	901.7	926.6	973.3
32.5°	930.9	921.9	893.8	880.6	863.1	834.2	839.9	856.0	858.2	883.4	931.5
35°	905.5	899.5	864.8	842.4	825.1	793.4	799.4	810.6	813.9	838.5	887.5
37.5°	881.5	871.9	835.0	807.6	785.5	752.1	753.8	765.3	768.5	793.4	841.8
40°	856.6	842.9	803.3	771.3	745.8	710.8	708.9	721.0	723.4	747.8	791.5
42.5°	830.1	813.6	769.1	734.1	704.8	669.3	665.5	675.9	678.6	702.4	745.3
45°	803.3	783.6	734.1	695.8	663.8	627.5	623.6	631.6	635.7	658.1	699.4
47.5°	774.8	751.9	698.0	655.3	622.3	585.9	581.3	589.2	592.5	614.6	653.7
50°	745.0	717.1	660.8	613.8	581.0	545.2	538.3	547.6	550.6	571.4	609.7
52.5°	712.2	681.3	621.2	572.0	539.2	505.0	496.8	505.8	509.4	529.6	564.9
55°	677.5	644.1	581.3	533.4	497.9	464.5	457.7	461.2	468.9	488.0	520.8
57.5°	638.4	605.3	539.2	490.5	456.3	424.3	418.6	421.9	429.0	447.6	477.1
60°	596.8	561.8	496.2	447.6	414.5	384.1	378.9	381.9	389.6	406.6	433.9
62.5°	555.8	516.5	451.9	403.5	373.5	345.3	343.9	342.8	350.0	366.4	390.4
65°	506.1	468.3	405.7	359.8	332.5	307.0	301.6	304.0	310.9	325.9	351.1
67.5°	452.8	418.6	358.4	316.1	291.7	269.0	264.4	265.5	272.6	285.7	307.6
70°	396.2	366.1	310.0	272.0	251.5	230.2	227.2	227.5	234.3	245.8	264.9
72.5°	336.8	309.8	261.1	228.6	211.6	196.3	193.6	190.3	196.6	206.4	222.8
75°	276.4	252.6	212.4	185.9	172.5	159.7	157.2	153.9	160.2	168.7	181.5
77.5°	215.4	196.3	165.1	144.6	134.2	124.7	122.5	118.9	125.2	131.5	141.6
80°	155.8	141.9	123.3	101.7	98.2	91.9	89.7	85.8	91.9	96.0	103.6
82.5°	100.6	91.3	80.7	65.6	65.1	60.4	59.3	55.0	60.4	62.9	68.6
85°	50.9	46.5	43.7	33.4	34.4	31.4	31.2	26.5	30.9	32.0	35.3
87.5°	14.5	15.3	13.7	8.2	10.4	9.8	9.8	7.1	9.8	9.8	11.2
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: P838056

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1173.2	1177.8	1178.9	1178.6	1181.7	1198.1	1192.6	1198.1
5°	1175.9	1186.3	1189.0	1192.9	1197.8	1216.4	1210.4	1216.9
7.5°	1177.6	1193.1	1199.1	1206.5	1214.5	1235.2	1230.3	1236.9
10°	1177.6	1197.8	1206.5	1218.8	1229.5	1253.6	1248.9	1256.6
12.5°	1172.6	1198.6	1210.9	1228.1	1241.8	1267.8	1265.9	1271.3
15°	1162.5	1194.5	1211.5	1233.6	1250.5	1279.5	1278.7	1285.3
17.5°	1148.8	1187.4	1207.9	1235.8	1257.1	1289.6	1291.6	1295.1
20°	1131.6	1174.0	1200.8	1235.0	1261.8	1297.6	1300.0	1305.0
22.5°	1108.9	1157.9	1190.1	1231.4	1262.3	1300.9	1305.2	1309.9
25°	1082.1	1138.5	1176.2	1224.6	1259.6	1300.6	1306.6	1310.7
27.5°	1051.5	1113.3	1158.4	1213.6	1251.9	1296.2	1303.6	1308.5
30°	1016.0	1086.5	1138.2	1199.4	1241.5	1288.0	1295.9	1300.9
32.5°	979.3	1057.0	1114.1	1181.1	1226.5	1274.9	1281.7	1285.5
35°	939.4	1021.2	1085.1	1157.6	1207.1	1253.8	1259.0	1263.1
37.5°	895.9	982.3	1052.1	1131.1	1179.7	1224.6	1229.2	1233.9
40°	851.1	941.6	1014.9	1098.5	1147.2	1188.8	1193.7	1197.0
42.5°	806.0	896.5	975.2	1060.3	1108.7	1148.6	1151.6	1154.9
45°	760.3	849.7	930.7	1017.9	1065.7	1103.2	1104.3	1107.0
47.5°	713.9	801.3	881.7	969.5	1016.8	1051.0	1052.1	1054.2
50°	667.1	753.0	829.5	917.3	963.5	999.6	994.6	996.8
52.5°	621.2	702.1	780.3	860.9	906.6	938.6	940.0	935.6
55°	576.1	652.3	724.2	801.9	845.4	870.2	869.4	871.1
57.5°	530.4	602.0	667.9	739.0	781.4	804.9	809.8	804.1
60°	483.9	551.2	610.2	674.5	715.5	735.2	740.9	735.5
62.5°	437.7	499.5	553.1	609.1	647.1	671.5	670.9	664.9
65°	391.5	447.6	495.4	543.0	576.1	600.4	599.3	593.8
67.5°	348.9	395.1	438.0	476.5	505.3	521.9	527.7	521.1
70°	301.8	341.8	379.5	410.4	434.2	449.2	454.7	448.9
72.5°	254.8	288.7	315.2	345.0	363.4	375.9	381.7	376.2
75°	208.3	236.2	257.8	281.1	293.9	304.6	311.1	305.7
77.5°	163.2	184.8	202.0	219.0	233.8	236.2	242.0	238.4
80°	120.3	135.9	148.5	159.7	170.3	171.4	176.1	173.9
82.5°	80.1	90.5	93.8	105.5	112.4	111.3	115.9	114.3
85°	42.4	48.7	54.4	58.0	61.8	58.2	62.3	60.7
87.5°	14.2	15.0	13.1	18.6	20.5	17.5	20.0	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)