

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: P838024

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-50-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838024
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

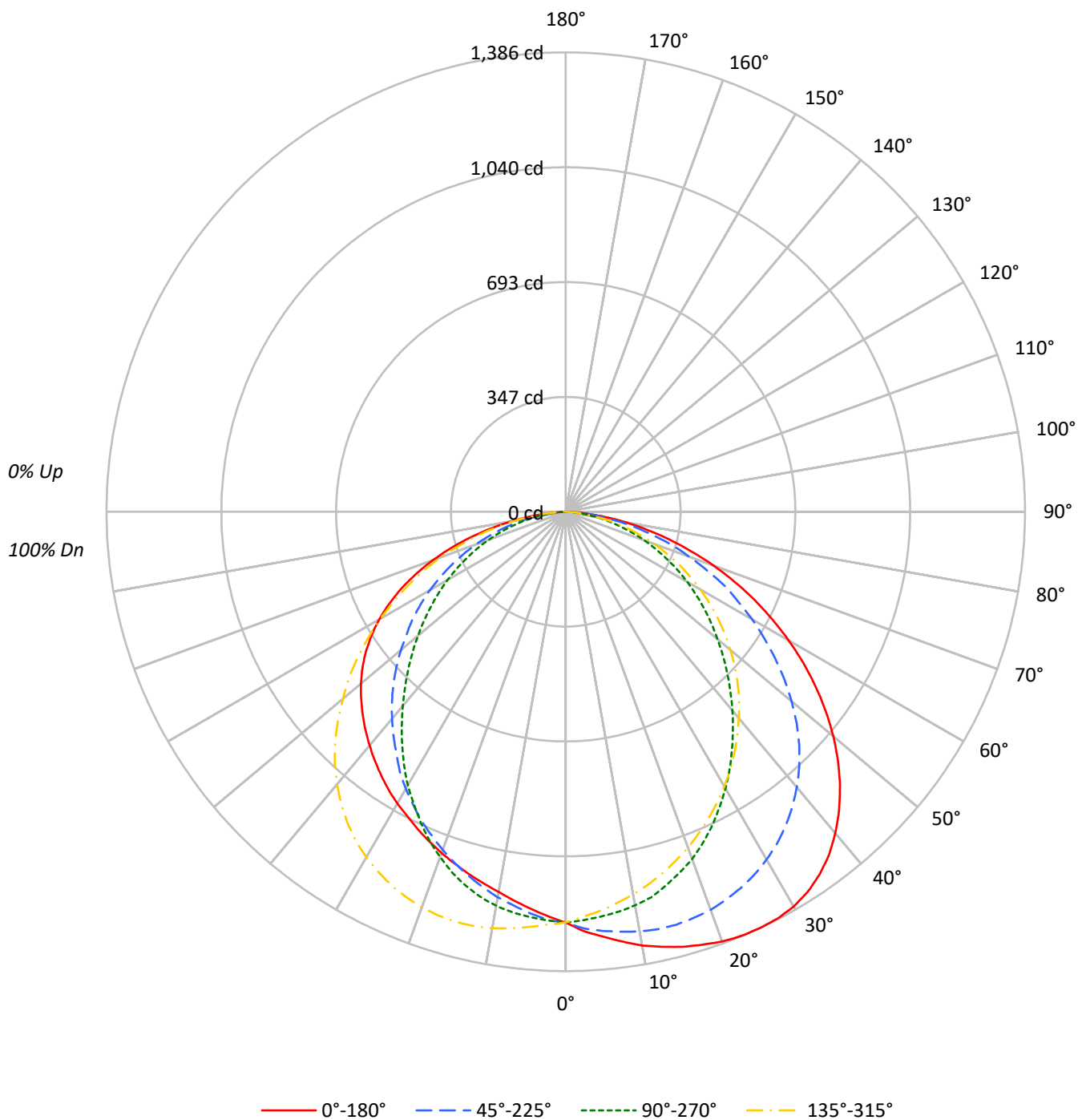
Lumens per Lamp: N/A
Luminaire Lumens: 3636.3 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	3335	3335	3335	3335
5°	3476	3311	3249	3317
10°	3631	3294	3183	3299
15°	3786	3252	3152	3253
20°	3952	3193	3138	3175
25°	4115	3104	3138	3072
30°	4274	2996	3159	2963
35°	4388	2873	3190	2827
40°	4446	2749	3235	2687
45°	4455	2624	3298	2558
50°	4413	2504	3378	2438
55°	4321	2393	3453	2326
60°	4186	2277	3499	2217
65°	3998	2143	3481	2093
70°	3735	1986	3357	1950
75°	3360	1771	3081	1761
80°	2850	1483	2590	1505
85°	1982	982	1643	1010

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.2
10°-20°	340.8	9.4
20°-30°	522.2	14.4
30°-40°	635.0	17.5
40°-50°	660.1	18.2
50°-60°	596.3	16.4
60°-70°	453.3	12.5
70°-80°	252.7	7.0
80°-90°	58.2	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°	980.7	27.0
0°-40°	1615.6	44.4
0°-60°	2872.0	79.0
0°-90°	3636.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1239	1239	1239	1239	1239	
5°	1287	1226	1203	1228	1287	124
15°	1359	1167	1131	1168	1359	385
25°	1386	1045	1057	1035	1386	640
35°	1336	875	971	861	1336	834
45°	1171	690	866	672	1171	901
55°	921	510	736	496	921	822
65°	628	336	547	329	628	621
75°	323	170	296	169	323	343
85°	64	32	53	33	64	81
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°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1266.9	1248.4	1248.7	1264.9	1252.4	1258.5	1241.1	1247.8	1245.8	1247.2	1233.1
5°	1286.8	1266.9	1266.6	1280.5	1266.6	1269.2	1247.2	1251.6	1245.2	1241.1	1225.8
7.5°	1307.9	1288.0	1286.0	1298.1	1279.9	1277.9	1253.6	1253.6	1242.0	1231.9	1217.4
10°	1328.7	1308.2	1305.6	1314.9	1292.3	1285.7	1256.2	1251.6	1236.2	1221.2	1205.6
12.5°	1344.4	1323.5	1321.5	1327.3	1301.9	1289.7	1256.2	1247.2	1224.7	1203.6	1191.4
15°	1359.1	1337.7	1332.2	1335.1	1305.9	1289.7	1252.1	1238.3	1209.3	1181.6	1167.4
17.5°	1369.5	1349.0	1343.5	1343.2	1307.9	1284.8	1243.5	1224.4	1189.7	1156.2	1142.0
20°	1379.9	1359.4	1352.5	1347.3	1307.4	1278.2	1230.7	1205.0	1164.5	1127.0	1115.1
22.5°	1385.1	1364.0	1356.5	1348.7	1303.6	1266.0	1215.1	1182.5	1136.2	1091.4	1081.6
25°	1386.0	1364.3	1356.2	1344.9	1296.1	1251.6	1194.9	1155.3	1103.5	1053.8	1045.4
27.5°	1383.7	1360.0	1351.9	1338.3	1284.8	1233.9	1170.9	1124.3	1068.8	1013.9	1004.9
30°	1375.6	1351.6	1343.8	1326.1	1268.9	1212.2	1144.6	1089.9	1030.4	972.0	964.2
32.5°	1359.4	1336.0	1329.6	1312.0	1251.6	1187.1	1113.9	1052.9	987.9	932.1	920.5
35°	1335.7	1312.3	1308.2	1289.7	1227.3	1157.0	1080.4	1012.5	942.8	885.8	874.6
37.5°	1304.8	1285.1	1279.0	1260.8	1198.7	1122.9	1042.0	968.5	896.8	835.5	828.6
40°	1265.7	1247.2	1242.6	1226.4	1165.4	1085.0	1000.3	923.1	849.4	792.5	782.6
42.5°	1221.2	1203.9	1201.3	1184.5	1124.3	1043.1	955.2	876.0	800.0	745.0	735.2
45°	1170.6	1153.8	1153.3	1137.4	1079.5	996.6	907.8	828.3	751.7	694.7	689.5
47.5°	1114.8	1099.8	1099.8	1085.0	1029.5	945.4	858.9	778.6	703.1	652.8	643.6
50°	1054.1	1039.9	1035.6	1028.4	974.3	889.6	807.5	730.0	655.1	607.1	598.2
52.5°	989.3	977.2	980.1	966.8	914.5	831.5	755.4	675.4	606.8	563.2	554.2
55°	921.1	903.8	906.4	901.4	852.0	771.6	697.0	630.3	559.4	518.4	510.0
57.5°	850.3	827.7	837.0	834.1	785.5	710.3	643.6	579.1	512.3	474.4	466.3
60°	777.7	756.0	765.6	763.0	717.3	649.1	588.3	528.5	465.5	431.1	423.0
62.5°	703.1	683.2	691.8	689.8	647.9	586.3	533.4	478.5	418.3	387.4	379.9
65°	627.9	608.9	616.7	615.2	576.5	529.6	477.0	426.7	370.9	344.0	336.5
67.5°	551.0	533.4	540.6	540.6	505.1	460.3	420.4	374.4	324.4	301.3	294.3
70°	474.7	458.2	464.6	464.0	434.0	397.5	363.1	322.1	277.3	258.2	252.4
72.5°	397.8	383.4	389.1	388.6	363.4	340.0	305.9	270.3	231.3	216.0	210.8
75°	323.2	309.6	315.1	314.6	294.0	272.1	249.2	219.7	186.2	175.5	170.3
77.5°	252.1	238.2	242.9	242.9	227.8	211.9	193.7	170.9	147.2	135.6	131.8
80°	183.9	177.2	174.9	175.2	165.1	154.7	145.4	123.5	106.1	98.3	95.7
82.5°	120.8	115.4	113.0	113.6	107.8	101.5	95.7	80.4	68.8	64.2	62.7
85°	64.2	60.1	58.1	59.6	58.4	54.9	52.0	41.6	34.4	32.7	31.8
87.5°	20.2	17.6	16.2	21.4	18.2	16.2	15.6	12.4	9.5	9.5	9.3
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°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1237.7	1237.7	1226.4	1223.8	1222.6	1224.1	1212.8	1210.8	1227.0	1221.5	1209.1
5°	1227.9	1227.3	1211.4	1208.5	1208.5	1206.7	1194.0	1191.1	1207.3	1202.7	1189.1
7.5°	1215.7	1214.0	1195.2	1193.2	1190.3	1189.1	1174.9	1172.9	1186.8	1183.9	1171.2
10°	1201.0	1199.2	1177.0	1175.5	1172.3	1170.0	1156.7	1155.3	1169.5	1164.8	1154.7
12.5°	1181.6	1178.4	1155.6	1154.1	1151.5	1150.7	1137.6	1137.1	1152.7	1148.1	1137.4
15°	1156.2	1153.5	1128.1	1128.7	1129.0	1129.0	1118.6	1118.0	1133.3	1131.3	1119.7
17.5°	1128.1	1124.6	1100.4	1102.1	1104.1	1106.4	1098.3	1099.8	1116.0	1113.4	1103.0
20°	1096.3	1092.8	1069.1	1074.0	1078.4	1083.0	1077.8	1081.8	1096.9	1095.7	1087.9
22.5°	1060.7	1057.3	1035.3	1042.8	1050.0	1058.7	1056.4	1061.0	1076.9	1076.6	1069.7
25°	1017.4	1018.2	998.9	1008.1	1020.3	1032.4	1033.3	1040.8	1058.4	1056.7	1050.3
27.5°	976.9	978.1	957.5	973.1	989.3	1004.9	1008.7	1019.1	1037.0	1035.6	1030.1
30°	934.4	935.8	915.9	937.3	957.0	976.0	984.1	998.3	1016.5	1016.5	1010.7
32.5°	890.2	892.8	872.0	900.6	923.4	945.7	959.8	974.6	995.4	994.8	989.9
35°	844.8	847.7	828.6	865.0	887.9	915.0	932.7	952.3	970.8	971.1	967.4
37.5°	798.5	802.0	784.6	824.5	850.6	882.7	905.2	924.9	945.4	946.5	943.1
40°	752.6	756.3	741.3	779.7	812.7	848.5	874.6	897.7	920.2	920.8	918.5
42.5°	706.6	710.6	699.4	736.9	774.2	812.7	843.3	869.6	892.8	894.2	891.6
45°	661.8	665.2	657.1	698.2	734.1	776.0	811.2	841.0	864.4	866.5	865.6
47.5°	617.3	620.4	613.2	650.8	692.1	736.7	777.4	810.4	835.2	837.6	837.0
50°	573.6	576.2	568.4	607.7	648.8	696.2	738.7	776.8	804.6	806.9	806.6
52.5°	530.2	532.8	526.2	567.5	604.8	654.8	701.1	742.4	769.9	773.4	773.9
55°	488.3	489.5	484.3	523.9	560.0	612.3	665.5	705.7	733.2	736.1	737.8
57.5°	446.4	446.7	442.3	480.2	514.9	568.4	624.2	666.4	692.4	695.3	697.9
60°	404.8	404.5	399.6	436.3	469.5	522.4	580.5	622.5	647.6	650.2	653.7
62.5°	363.4	362.5	358.2	392.0	423.3	475.6	534.0	574.5	598.5	600.2	604.8
65°	322.4	321.5	317.4	348.7	377.0	427.0	484.3	522.7	544.4	546.7	545.8
67.5°	281.9	280.1	277.0	305.0	330.7	377.0	431.9	468.6	486.6	488.6	494.1
70°	241.4	239.4	232.2	261.9	284.5	325.8	377.0	409.7	424.7	426.7	425.9
72.5°	201.5	199.5	191.7	219.1	238.2	274.4	320.0	347.2	360.2	362.0	362.0
75°	162.8	161.6	156.7	177.5	193.4	222.9	261.6	284.2	294.3	296.3	295.8
77.5°	125.5	124.6	119.7	137.6	150.0	172.0	203.2	220.9	228.4	230.7	235.6
80°	89.9	89.6	81.8	99.5	104.9	123.5	146.3	159.9	163.9	167.1	170.6
82.5°	57.5	57.8	50.0	65.0	67.4	79.2	93.4	101.8	104.7	107.3	109.9
85°	28.0	29.2	24.9	34.4	34.7	40.8	46.8	50.0	51.2	53.2	55.5
87.5°	7.2	8.4	4.6	9.8	8.7	11.3	13.0	13.9	13.6	15.0	15.9
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°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1213.1	1222.4	1217.7	1232.8	1238.5	1229.3	1245.5	1245.8	1234.2	1247.8	1255.3
5°	1194.3	1203.9	1201.0	1216.6	1223.8	1215.7	1235.4	1239.1	1227.9	1243.2	1255.3
7.5°	1175.2	1186.5	1182.7	1198.7	1207.3	1201.0	1222.1	1228.1	1219.5	1236.2	1252.4
10°	1158.8	1168.3	1164.2	1181.0	1188.5	1183.3	1204.1	1215.4	1207.3	1227.9	1247.2
12.5°	1142.6	1150.4	1145.7	1159.6	1166.8	1160.2	1185.6	1196.0	1190.3	1211.7	1236.5
15°	1121.7	1130.4	1124.1	1136.5	1142.0	1136.2	1157.0	1174.9	1167.7	1191.1	1218.6
17.5°	1105.8	1110.8	1102.1	1111.9	1115.1	1107.3	1128.4	1146.0	1140.8	1166.3	1198.1
20°	1088.2	1092.3	1080.1	1085.6	1085.3	1075.5	1094.9	1112.2	1108.7	1136.8	1172.9
22.5°	1068.6	1070.6	1056.4	1057.6	1057.0	1040.8	1058.1	1075.8	1074.3	1102.7	1143.1
25°	1047.7	1048.0	1029.8	1029.2	1022.9	1003.8	1019.1	1039.1	1034.7	1065.4	1107.9
27.5°	1027.2	1024.3	1002.3	997.1	987.0	964.2	977.8	995.7	993.1	1023.2	1070.3
30°	1005.2	1001.5	974.6	965.0	950.3	924.0	935.3	952.0	953.5	979.8	1029.2
32.5°	984.4	974.9	945.1	931.2	912.7	882.1	888.1	905.2	907.5	934.1	985.0
35°	957.5	951.2	914.5	890.7	872.5	839.0	845.4	857.2	860.7	886.7	938.5
37.5°	932.1	922.0	882.9	854.0	830.6	795.3	797.1	809.2	812.7	839.0	890.2
40°	905.8	891.3	849.4	815.6	788.7	751.7	749.7	762.4	765.0	790.7	837.0
42.5°	877.7	860.4	813.3	776.3	745.3	707.7	703.7	714.7	717.6	742.7	788.1
45°	849.4	828.6	776.3	735.8	702.0	663.5	659.5	667.8	672.2	695.9	739.5
47.5°	819.3	795.1	738.1	693.0	658.0	619.6	614.6	623.0	626.5	649.9	691.3
50°	787.8	758.3	698.8	649.1	614.4	576.5	569.3	579.1	582.3	604.2	644.7
52.5°	753.1	720.5	656.9	604.8	570.1	534.0	525.3	534.9	538.6	560.0	597.3
55°	716.4	681.1	614.6	564.1	526.5	491.2	484.0	487.7	495.8	516.1	550.8
57.5°	675.1	640.1	570.1	518.7	482.5	448.7	442.6	446.1	453.6	473.3	504.5
60°	631.1	594.1	524.7	473.3	438.3	406.2	400.7	403.9	412.0	429.9	458.8
62.5°	587.8	546.1	477.9	426.7	394.9	365.1	363.7	362.5	370.1	387.4	412.8
65°	535.1	495.2	429.0	380.5	351.6	324.7	318.9	321.5	328.7	344.6	371.2
67.5°	478.8	442.6	379.0	334.2	308.5	284.5	279.6	280.7	288.2	302.1	325.2
70°	418.9	387.1	327.9	287.7	266.0	243.4	240.3	240.5	247.8	259.9	280.1
72.5°	356.2	327.6	276.1	241.7	223.8	207.6	204.7	201.2	207.9	218.3	235.6
75°	292.3	267.1	224.6	196.6	182.4	168.8	166.2	162.8	169.4	178.4	192.0
77.5°	227.8	207.6	174.6	152.9	142.0	131.8	129.5	125.8	132.4	139.1	149.8
80°	164.8	150.0	130.4	107.5	103.8	97.1	94.8	90.8	97.1	101.5	109.6
82.5°	106.4	96.6	85.3	69.4	68.8	63.9	62.7	58.1	63.9	66.5	72.6
85°	53.8	49.1	46.3	35.3	36.4	33.2	33.0	28.0	32.7	33.8	37.3
87.5°	15.3	16.2	14.5	8.7	11.0	10.4	10.4	7.5	10.4	10.4	11.9
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: P838024

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4	1239.4
2.5°	1240.6	1245.5	1246.6	1246.4	1249.5	1266.9	1261.1	1266.9
5°	1243.5	1254.4	1257.3	1261.4	1266.6	1286.3	1279.9	1286.8
7.5°	1245.2	1261.7	1268.0	1275.8	1284.2	1306.2	1301.0	1307.9
10°	1245.2	1266.6	1275.8	1288.9	1300.1	1325.6	1320.7	1328.7
12.5°	1240.0	1267.5	1280.5	1298.7	1313.1	1340.6	1338.6	1344.4
15°	1229.3	1263.1	1281.0	1304.5	1322.4	1353.0	1352.2	1359.1
17.5°	1214.8	1255.6	1277.3	1306.8	1329.3	1363.7	1365.8	1369.5
20°	1196.6	1241.4	1269.8	1305.9	1334.2	1372.1	1374.7	1379.9
22.5°	1172.6	1224.4	1258.5	1302.2	1334.8	1375.6	1380.2	1385.1
25°	1144.3	1203.9	1243.8	1294.9	1331.9	1375.3	1381.7	1386.0
27.5°	1111.9	1177.3	1225.0	1283.4	1323.8	1370.7	1378.5	1383.7
30°	1074.3	1148.9	1203.6	1268.3	1312.8	1362.0	1370.4	1375.6
32.5°	1035.6	1117.7	1178.1	1249.0	1296.9	1348.1	1355.3	1359.4
35°	993.4	1079.8	1147.5	1224.1	1276.4	1325.9	1331.4	1335.7
37.5°	947.4	1038.8	1112.5	1196.0	1247.5	1294.9	1299.8	1304.8
40°	900.0	995.7	1073.2	1161.6	1213.1	1257.1	1262.3	1265.7
42.5°	852.3	948.0	1031.3	1121.2	1172.3	1214.6	1217.7	1221.2
45°	804.0	898.6	984.1	1076.4	1127.0	1166.6	1167.7	1170.6
47.5°	754.9	847.4	932.4	1025.2	1075.2	1111.3	1112.5	1114.8
50°	705.4	796.2	877.2	970.0	1018.8	1057.0	1051.8	1054.1
52.5°	656.9	742.4	825.1	910.4	958.7	992.5	994.0	989.3
55°	609.2	689.8	765.9	848.0	893.9	920.2	919.4	921.1
57.5°	560.9	636.6	706.3	781.5	826.3	851.1	856.3	850.3
60°	511.7	582.8	645.3	713.2	756.6	777.4	783.5	777.7
62.5°	462.9	528.2	584.9	644.1	684.3	710.1	709.5	703.1
65°	414.0	473.3	523.9	574.2	609.2	634.9	633.7	627.9
67.5°	368.9	417.8	463.2	503.9	534.3	551.9	558.0	551.0
70°	319.2	361.4	401.3	434.0	459.1	475.0	480.8	474.7
72.5°	269.5	305.3	333.3	364.9	384.2	397.5	403.6	397.8
75°	220.3	249.8	272.6	297.2	310.8	322.1	329.0	323.2
77.5°	172.6	195.4	213.7	231.6	247.2	249.8	255.9	252.1
80°	127.2	143.7	157.0	168.8	180.1	181.3	186.2	183.9
82.5°	84.7	95.7	99.2	111.6	118.8	117.7	122.6	120.8
85°	44.8	51.5	57.5	61.3	65.3	61.6	65.9	64.2
87.5°	15.0	15.9	13.9	19.7	21.7	18.5	21.1	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)