

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: P838074

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1STD-30-120-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: P838074
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-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

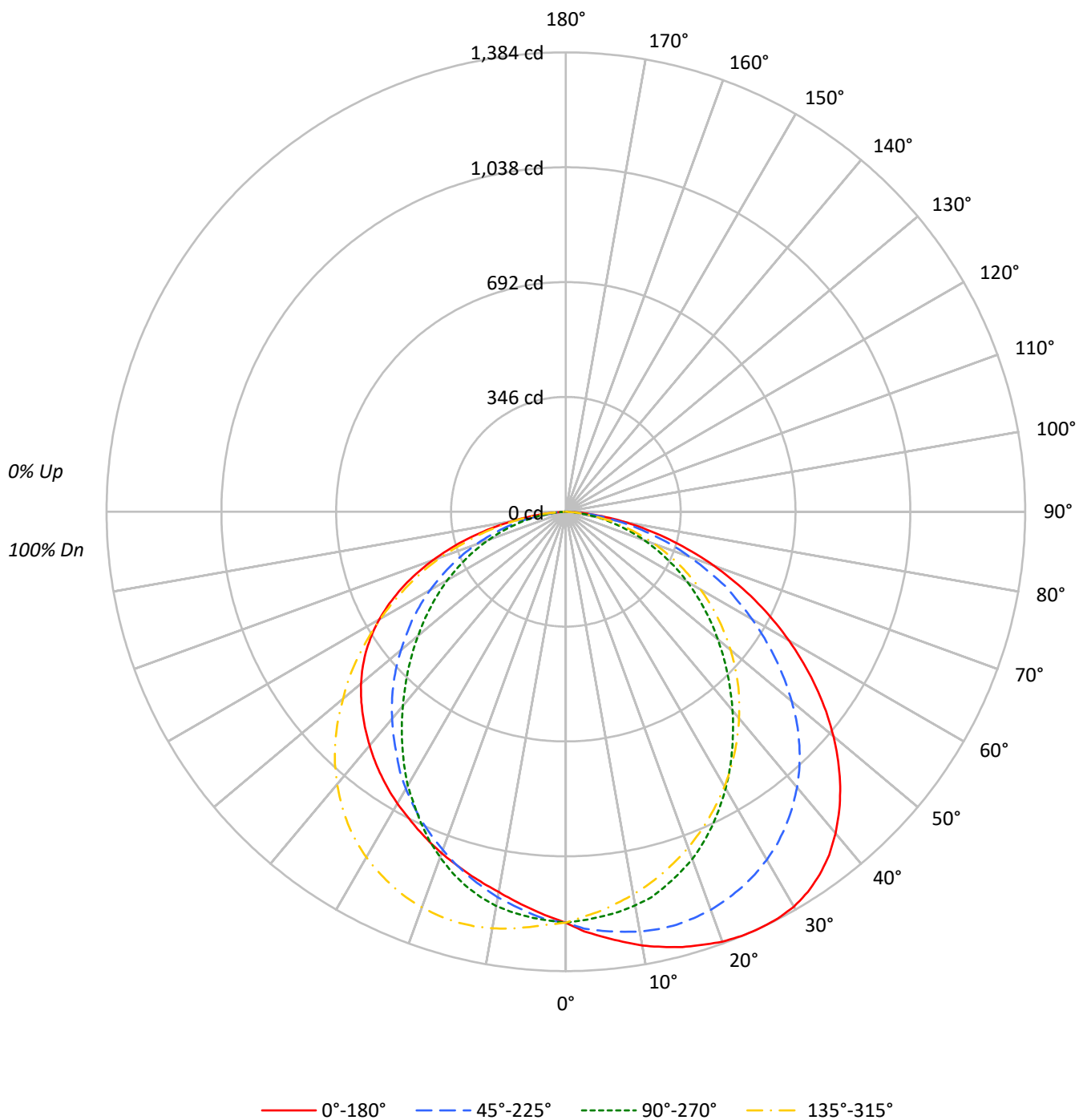
Lumens per Lamp: N/A
Luminaire Lumens: 3631.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1666	1666	1666	1666
5°	1736	1654	1623	1656
10°	1813	1645	1589	1648
15°	1891	1624	1574	1625
20°	1974	1595	1567	1586
25°	2055	1550	1567	1534
30°	2135	1496	1577	1480
35°	2191	1435	1593	1412
40°	2220	1373	1615	1342
45°	2225	1310	1647	1278
50°	2204	1251	1687	1217
55°	2158	1195	1725	1162
60°	2090	1137	1748	1107
65°	1997	1070	1739	1045
70°	1865	992	1677	974
75°	1678	884	1539	880
80°	1423	741	1293	752
85°	990	491	820	503

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.2
10°-20°	340.3	9.4
20°-30°	521.6	14.4
30°-40°	634.2	17.5
40°-50°	659.3	18.2
50°-60°	595.6	16.4
60°-70°	452.8	12.5
70°-80°	252.4	7.0
80°-90°	58.1	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°	979.5	27.0
0°-40°	1613.7	44.4
0°-60°	2868.6	79.0
0°-90°	3631.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1238	1238	1238	1238	1238	
5°	1285	1224	1201	1226	1285	124
15°	1358	1166	1130	1166	1358	385
25°	1384	1044	1055	1034	1384	639
35°	1334	874	970	860	1334	833
45°	1169	689	865	671	1169	900
55°	920	509	735	495	920	821
65°	627	336	546	328	627	620
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°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1265.4	1246.9	1247.2	1263.3	1250.9	1257.0	1239.7	1246.3	1244.3	1245.7	1231.6
5°	1285.3	1265.4	1265.1	1278.9	1265.1	1267.7	1245.7	1250.1	1243.7	1239.7	1224.4
7.5°	1306.4	1286.4	1284.4	1296.5	1278.4	1276.3	1252.1	1252.1	1240.5	1230.4	1216.0
10°	1327.2	1306.7	1304.1	1313.3	1290.8	1284.1	1254.7	1250.1	1234.8	1219.7	1204.1
12.5°	1342.8	1322.0	1319.9	1325.7	1300.3	1288.2	1254.7	1245.7	1223.2	1202.1	1190.0
15°	1357.5	1336.1	1330.6	1333.5	1304.3	1288.2	1250.6	1236.8	1207.9	1180.2	1166.0
17.5°	1367.9	1347.4	1341.9	1341.6	1306.4	1283.3	1242.0	1222.9	1188.3	1154.8	1140.6
20°	1378.3	1357.8	1350.8	1345.6	1305.8	1276.6	1229.3	1203.6	1163.1	1125.6	1113.8
22.5°	1383.5	1362.4	1354.9	1347.1	1302.0	1264.5	1213.7	1181.0	1134.8	1090.1	1080.3
25°	1384.3	1362.7	1354.6	1343.3	1294.5	1250.1	1193.5	1153.9	1102.2	1052.5	1044.2
27.5°	1382.0	1358.3	1350.3	1336.7	1283.3	1232.4	1169.5	1123.0	1067.6	1012.7	1003.7
30°	1373.9	1350.0	1342.2	1324.6	1267.4	1210.8	1143.2	1088.6	1029.2	970.8	963.0
32.5°	1357.8	1334.4	1328.0	1310.4	1250.1	1185.7	1112.6	1051.7	986.7	931.0	919.4
35°	1334.1	1310.7	1306.7	1288.2	1225.8	1155.6	1079.1	1011.2	941.7	884.8	873.5
37.5°	1303.2	1283.6	1277.5	1259.3	1197.2	1121.6	1040.7	967.4	895.7	834.5	827.6
40°	1264.2	1245.7	1241.1	1224.9	1164.0	1083.7	999.1	922.0	848.4	791.5	781.7
42.5°	1219.7	1202.4	1199.8	1183.1	1123.0	1041.9	954.1	875.0	799.0	744.1	734.3
45°	1169.2	1152.5	1151.9	1136.0	1078.2	995.4	906.7	827.3	750.8	693.9	688.7
47.5°	1113.5	1098.5	1098.5	1083.7	1028.3	944.3	857.9	777.6	702.3	652.0	642.8
50°	1052.8	1038.7	1034.4	1027.1	973.1	888.5	806.5	729.1	654.3	606.4	597.5
52.5°	988.1	976.0	978.9	965.6	913.4	830.5	754.5	674.6	606.1	562.5	553.6
55°	920.0	902.7	905.3	900.4	851.0	770.7	696.2	629.5	558.8	517.8	509.4
57.5°	849.3	826.7	836.0	833.1	784.6	709.5	642.8	578.4	511.7	473.9	465.8
60°	776.8	755.1	764.6	762.0	716.4	648.3	587.6	527.9	464.9	430.5	422.5
62.5°	702.3	682.3	691.0	689.0	647.1	585.6	532.8	477.9	417.8	386.9	379.4
65°	627.2	608.1	615.9	614.5	575.8	529.0	476.5	426.2	370.5	343.6	336.1
67.5°	550.4	532.8	540.0	540.0	504.5	459.7	419.9	373.9	324.0	300.9	294.0
70°	474.1	457.7	464.0	463.5	433.4	397.0	362.7	321.7	276.9	257.9	252.1
72.5°	397.3	382.9	388.7	388.1	363.0	339.6	305.5	270.0	231.0	215.7	210.5
75°	322.8	309.3	314.8	314.2	293.7	271.7	248.9	219.5	186.0	175.3	170.1
77.5°	251.8	237.9	242.6	242.6	227.5	211.7	193.5	170.7	147.0	135.4	131.7
80°	183.7	177.0	174.7	175.0	164.9	154.5	145.2	123.3	106.0	98.2	95.6
82.5°	120.7	115.2	112.9	113.5	107.7	101.4	95.6	80.3	68.7	64.1	62.7
85°	64.1	60.1	58.0	59.5	58.3	54.9	52.0	41.6	34.4	32.6	31.8
87.5°	20.2	17.6	16.2	21.4	18.2	16.2	15.6	12.4	9.5	9.5	9.2
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°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1236.2	1236.2	1224.9	1222.3	1221.2	1222.6	1211.4	1209.3	1225.5	1220.0	1207.6
5°	1226.4	1225.8	1209.9	1207.0	1207.0	1205.3	1192.6	1189.7	1205.9	1201.3	1187.7
7.5°	1214.3	1212.5	1193.7	1191.7	1188.8	1187.7	1173.5	1171.5	1185.4	1182.5	1169.8
10°	1199.5	1197.8	1175.6	1174.1	1170.9	1168.6	1155.3	1153.9	1168.0	1163.4	1153.3
12.5°	1180.2	1177.0	1154.2	1152.7	1150.1	1149.3	1136.3	1135.7	1151.3	1146.7	1136.0
15°	1154.8	1152.2	1126.8	1127.3	1127.6	1127.6	1117.2	1116.6	1132.0	1129.9	1118.4
17.5°	1126.8	1123.3	1099.0	1100.8	1102.8	1105.1	1097.0	1098.5	1114.6	1112.0	1101.6
20°	1095.0	1091.5	1067.8	1072.8	1077.1	1081.7	1076.5	1080.6	1095.6	1094.4	1086.6
22.5°	1059.5	1056.0	1034.1	1041.6	1048.8	1057.5	1055.1	1059.8	1075.6	1075.4	1068.4
25°	1016.2	1017.0	997.7	1006.9	1019.0	1031.2	1032.0	1039.5	1057.2	1055.4	1049.1
27.5°	975.7	976.9	956.4	972.0	988.1	1003.7	1007.5	1017.9	1035.8	1034.4	1028.9
30°	933.3	934.7	914.8	936.2	955.8	974.9	983.0	997.1	1015.3	1015.3	1009.5
32.5°	889.1	891.7	870.9	899.5	922.3	944.5	958.7	973.4	994.2	993.6	988.7
35°	843.8	846.7	827.6	864.0	886.8	913.9	931.6	951.2	969.7	970.0	966.2
37.5°	797.6	801.0	783.7	823.6	849.5	881.6	904.1	923.8	944.3	945.4	941.9
40°	751.7	755.4	740.4	778.8	811.7	847.5	873.5	896.6	919.1	919.7	917.4
42.5°	705.7	709.8	698.5	736.1	773.3	811.7	842.3	868.6	891.7	893.1	890.5
45°	661.0	664.4	656.4	697.4	733.2	775.0	810.3	840.0	863.4	865.4	864.6
47.5°	616.5	619.7	612.5	650.0	691.3	735.8	776.5	809.4	834.2	836.5	836.0
50°	572.9	575.5	567.7	607.0	648.0	695.3	737.8	775.9	803.6	805.9	805.7
52.5°	529.6	532.2	525.5	566.8	604.1	654.0	700.3	741.5	769.0	772.4	773.0
55°	487.7	488.9	483.7	523.2	559.3	611.6	664.7	704.9	732.3	735.2	736.9
57.5°	445.9	446.1	441.8	479.6	514.3	567.7	623.4	665.6	691.6	694.5	697.1
60°	404.3	404.0	399.1	435.7	469.0	521.8	579.8	621.7	646.8	649.4	652.9
62.5°	363.0	362.1	357.8	391.6	422.7	475.0	533.3	573.8	597.7	599.5	604.1
65°	322.0	321.1	317.1	348.2	376.5	426.5	483.7	522.1	543.7	546.1	545.2
67.5°	281.5	279.8	276.6	304.6	330.3	376.5	431.4	468.1	486.0	488.0	493.5
70°	241.1	239.1	231.9	261.6	284.1	325.4	376.5	409.2	424.2	426.2	425.3
72.5°	201.3	199.2	191.5	218.9	237.9	274.0	319.7	346.8	359.8	361.5	361.5
75°	162.6	161.4	156.5	177.3	193.2	222.6	261.3	283.9	294.0	296.0	295.4
77.5°	125.3	124.5	119.5	137.5	149.9	171.8	203.0	220.6	228.1	230.4	235.3
80°	89.8	89.5	81.7	99.3	104.8	123.3	146.1	159.7	163.7	166.9	170.4
82.5°	57.5	57.8	50.0	65.0	67.3	79.1	93.3	101.6	104.5	107.1	109.7
85°	28.0	29.2	24.8	34.4	34.7	40.7	46.8	50.0	51.1	53.1	55.4
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°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1211.7	1220.9	1216.3	1231.3	1237.1	1227.8	1244.0	1244.3	1232.7	1246.3	1253.8
5°	1192.9	1202.4	1199.5	1215.1	1222.3	1214.3	1233.9	1237.6	1226.4	1241.7	1253.8
7.5°	1173.8	1185.1	1181.3	1197.2	1205.9	1199.5	1220.6	1226.7	1218.0	1234.8	1250.9
10°	1157.4	1166.9	1162.9	1179.6	1187.1	1181.9	1202.7	1214.0	1205.9	1226.4	1245.7
12.5°	1141.2	1149.0	1144.4	1158.2	1165.4	1158.8	1184.2	1194.6	1188.8	1210.2	1235.0
15°	1120.4	1129.1	1122.7	1135.1	1140.6	1134.8	1155.6	1173.5	1166.3	1189.7	1217.1
17.5°	1104.5	1109.4	1100.8	1110.6	1113.8	1106.0	1127.0	1144.7	1139.5	1164.9	1196.6
20°	1086.9	1090.9	1078.8	1084.3	1084.0	1074.2	1093.5	1110.9	1107.4	1135.4	1171.5
22.5°	1067.3	1069.3	1055.1	1056.3	1055.7	1039.5	1056.9	1074.5	1073.0	1101.3	1141.8
25°	1046.5	1046.8	1028.6	1028.0	1021.6	1002.6	1017.9	1037.8	1033.5	1064.1	1106.5
27.5°	1026.0	1023.1	1001.1	995.9	985.8	963.0	976.6	994.5	991.9	1021.9	1069.0
30°	1004.0	1000.3	973.4	963.9	949.2	922.9	934.2	950.9	952.3	978.6	1028.0
32.5°	983.2	973.7	944.0	930.1	911.6	881.0	887.1	904.1	906.4	933.0	983.8
35°	956.4	950.0	913.4	889.7	871.5	838.0	844.3	856.2	859.6	885.6	937.3
37.5°	931.0	920.9	881.9	853.0	829.6	794.4	796.1	808.2	811.7	838.0	889.1
40°	904.7	890.3	848.4	814.6	787.7	750.8	748.8	761.5	764.1	789.8	836.0
42.5°	876.7	859.4	812.3	775.3	744.4	706.9	702.9	713.8	716.7	741.8	787.2
45°	848.4	827.6	775.3	734.9	701.1	662.7	658.7	667.0	671.4	695.1	738.7
47.5°	818.4	794.1	737.2	692.2	657.2	618.8	613.9	622.3	625.8	649.1	690.4
50°	786.9	757.4	697.9	648.3	613.6	575.8	568.6	578.4	581.6	603.5	643.9
52.5°	752.2	719.6	656.1	604.1	569.4	533.3	524.7	534.2	538.0	559.3	596.6
55°	715.6	680.3	613.9	563.4	525.8	490.6	483.4	487.1	495.2	515.4	550.1
57.5°	674.3	639.3	569.4	518.0	481.9	448.2	442.1	445.6	453.1	472.7	503.9
60°	630.4	593.4	524.1	472.7	437.8	405.7	400.2	403.4	411.5	429.4	458.3
62.5°	587.1	545.5	477.3	426.2	394.5	364.7	363.3	362.1	369.6	386.9	412.4
65°	534.5	494.7	428.5	380.0	351.1	324.3	318.5	321.1	328.3	344.2	370.8
67.5°	478.2	442.1	378.6	333.8	308.1	284.1	279.2	280.4	287.9	301.8	324.9
70°	418.4	386.7	327.5	287.3	265.7	243.1	240.0	240.3	247.5	259.6	279.8
72.5°	355.8	327.2	275.8	241.4	223.5	207.3	204.4	201.0	207.6	218.0	235.3
75°	291.9	266.8	224.4	196.4	182.2	168.6	166.0	162.6	169.2	178.2	191.7
77.5°	227.5	207.3	174.4	152.8	141.8	131.7	129.4	125.6	132.3	138.9	149.6
80°	164.6	149.9	130.2	107.4	103.7	97.0	94.7	90.7	97.0	101.4	109.4
82.5°	106.3	96.4	85.2	69.3	68.7	63.8	62.7	58.0	63.8	66.4	72.5
85°	53.7	49.1	46.2	35.2	36.4	33.2	32.9	28.0	32.6	33.8	37.3
87.5°	15.3	16.2	14.4	8.7	11.0	10.4	10.4	7.5	10.4	10.4	11.8
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: P838074

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1STD-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1239.1	1244.0	1245.1	1244.9	1248.0	1265.4	1259.6	1265.4
5°	1242.0	1252.9	1255.8	1259.9	1265.1	1284.7	1278.4	1285.3
7.5°	1243.7	1260.2	1266.5	1274.3	1282.7	1304.6	1299.4	1306.4
10°	1243.7	1265.1	1274.3	1287.3	1298.6	1324.0	1319.1	1327.2
12.5°	1238.5	1265.9	1278.9	1297.1	1311.6	1339.0	1337.0	1342.8
15°	1227.8	1261.6	1279.5	1302.9	1320.8	1351.4	1350.5	1357.5
17.5°	1213.4	1254.1	1275.8	1305.2	1327.7	1362.1	1364.1	1367.9
20°	1195.2	1240.0	1268.2	1304.3	1332.6	1370.5	1373.1	1378.3
22.5°	1171.2	1222.9	1257.0	1300.6	1333.2	1373.9	1378.6	1383.5
25°	1142.9	1202.4	1242.3	1293.4	1330.3	1373.6	1380.0	1384.3
27.5°	1110.6	1175.8	1223.5	1281.8	1322.2	1369.0	1376.8	1382.0
30°	1073.0	1147.5	1202.1	1266.8	1311.3	1360.4	1368.7	1373.9
32.5°	1034.4	1116.4	1176.7	1247.5	1295.4	1346.5	1353.7	1357.8
35°	992.2	1078.5	1146.1	1222.6	1274.9	1324.3	1329.8	1334.1
37.5°	946.3	1037.5	1111.2	1194.6	1246.0	1293.4	1298.3	1303.2
40°	898.9	994.5	1071.9	1160.3	1211.7	1255.5	1260.7	1264.2
42.5°	851.3	946.9	1030.0	1119.8	1170.9	1213.1	1216.3	1219.7
45°	803.1	897.5	983.0	1075.1	1125.6	1165.2	1166.3	1169.2
47.5°	754.0	846.4	931.3	1024.0	1073.9	1110.0	1111.2	1113.5
50°	704.6	795.3	876.1	968.8	1017.6	1055.7	1050.5	1052.8
52.5°	656.1	741.5	824.1	909.3	957.5	991.3	992.8	988.1
55°	608.4	689.0	764.9	846.9	892.9	919.1	918.3	920.0
57.5°	560.2	635.9	705.4	780.5	825.3	850.1	855.3	849.3
60°	511.1	582.1	644.5	712.4	755.7	776.5	782.5	776.8
62.5°	462.3	527.6	584.2	643.4	683.5	709.2	708.6	702.3
65°	413.5	472.7	523.2	573.5	608.4	634.1	633.0	627.2
67.5°	368.5	417.3	462.6	503.3	533.6	551.2	557.3	550.4
70°	318.8	361.0	400.8	433.4	458.6	474.4	480.2	474.1
72.5°	269.1	304.9	332.9	364.4	383.8	397.0	403.1	397.3
75°	220.0	249.5	272.3	296.8	310.4	321.7	328.6	322.8
77.5°	172.4	195.2	213.4	231.3	246.9	249.5	255.6	251.8
80°	127.1	143.5	156.8	168.6	179.9	181.1	186.0	183.7
82.5°	84.6	95.6	99.0	111.5	118.7	117.5	122.4	120.7
85°	44.8	51.4	57.5	61.2	65.3	61.5	65.8	64.1
87.5°	15.0	15.9	13.9	19.6	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)