

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: P837844

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-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: P837844
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-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

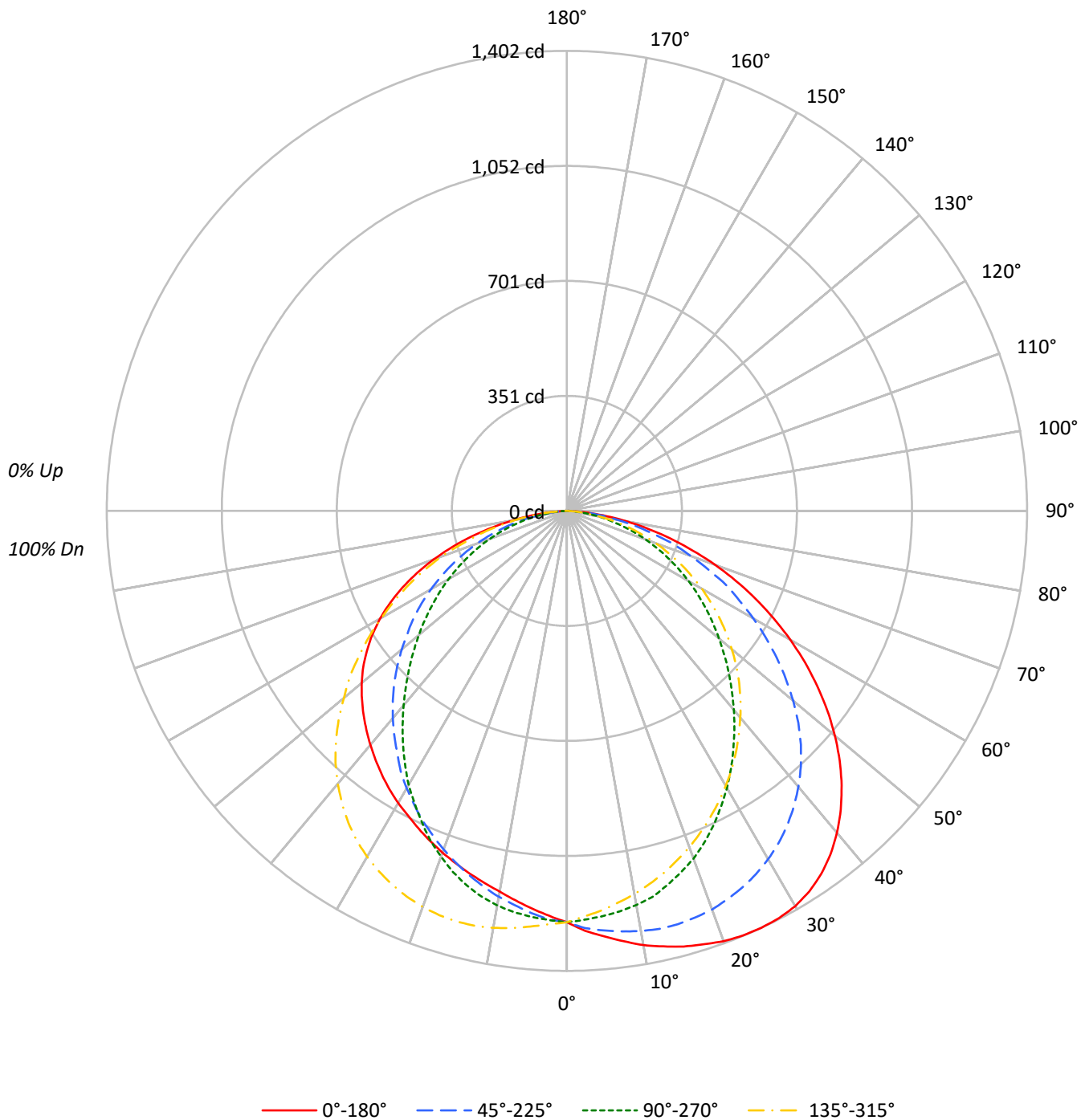
Lumens per Lamp: N/A
Luminaire Lumens: 3677.6 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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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°	3373	3373	3373	3373
5°	3516	3349	3286	3354
10°	3672	3332	3219	3336
15°	3830	3289	3187	3290
20°	3997	3230	3174	3211
25°	4162	3139	3173	3107
30°	4323	3030	3195	2996
35°	4438	2906	3227	2860
40°	4497	2780	3271	2718
45°	4505	2654	3335	2587
50°	4463	2533	3417	2465
55°	4371	2420	3492	2353
60°	4233	2302	3539	2243
65°	4044	2167	3521	2117
70°	3777	2009	3396	1972
75°	3399	1790	3116	1781
80°	2882	1500	2619	1522
85°	2004	994	1661	1019

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	3.2
10°-20°	344.6	9.4
20°-30°	528.2	14.4
30°-40°	642.2	17.5
40°-50°	667.6	18.2
50°-60°	603.1	16.4
60°-70°	458.5	12.5
70°-80°	255.6	7.0
80°-90°	58.8	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°	991.8	27.0
0°-40°	1634.0	44.4
0°-60°	2904.7	79.0
0°-90°	3677.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1254	1254	1254	1254	1254	
5°	1302	1240	1216	1242	1302	125
15°	1375	1181	1144	1181	1375	390
25°	1402	1057	1069	1046	1402	647
35°	1351	884	982	870	1351	844
45°	1184	697	876	680	1184	912
55°	932	516	744	502	932	832
65°	635	340	553	332	635	628
75°	327	172	300	171	327	347
85°	65	32	54	33	65	82
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°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1281.3	1262.6	1262.9	1279.2	1266.7	1272.8	1255.3	1262.0	1259.9	1261.4	1247.1
5°	1301.5	1281.3	1281.0	1295.0	1281.0	1283.6	1261.4	1265.8	1259.3	1255.3	1239.8
7.5°	1322.8	1302.6	1300.6	1312.9	1294.4	1292.4	1267.8	1267.8	1256.1	1245.9	1231.3
10°	1343.8	1323.1	1320.5	1329.8	1307.0	1300.3	1270.5	1265.8	1250.3	1235.1	1219.3
12.5°	1359.6	1338.6	1336.5	1342.4	1316.7	1304.4	1270.5	1261.4	1238.6	1217.2	1205.0
15°	1374.6	1352.9	1347.4	1350.3	1320.8	1304.4	1266.4	1252.3	1223.1	1195.0	1180.7
17.5°	1385.1	1364.3	1358.8	1358.5	1322.8	1299.4	1257.6	1238.3	1203.2	1169.3	1155.0
20°	1395.6	1374.8	1367.8	1362.6	1322.2	1292.7	1244.7	1218.7	1177.8	1139.8	1127.8
22.5°	1400.9	1379.5	1371.9	1364.0	1318.4	1280.4	1228.9	1195.9	1149.1	1103.8	1093.9
25°	1401.7	1379.8	1371.6	1360.2	1310.8	1265.8	1208.5	1168.4	1116.1	1065.8	1057.3
27.5°	1399.4	1375.4	1367.2	1353.5	1299.4	1247.9	1184.2	1137.1	1081.0	1025.4	1016.4
30°	1391.2	1366.9	1359.1	1341.2	1283.3	1226.0	1157.6	1102.3	1042.1	983.0	975.1
32.5°	1374.8	1351.2	1344.7	1326.9	1265.8	1200.6	1126.6	1064.9	999.1	942.7	931.0
35°	1350.9	1327.2	1323.1	1304.4	1241.2	1170.2	1092.7	1024.0	953.5	895.9	884.5
37.5°	1319.6	1299.7	1293.6	1275.1	1212.3	1135.7	1053.8	979.5	907.0	845.0	838.0
40°	1280.1	1261.4	1256.7	1240.3	1178.6	1097.4	1011.7	933.6	859.1	801.5	791.5
42.5°	1235.1	1217.5	1214.9	1197.9	1137.1	1055.0	966.1	886.0	809.1	753.5	743.6
45°	1183.9	1167.0	1166.4	1150.3	1091.8	1007.9	918.1	837.7	760.2	702.6	697.4
47.5°	1127.5	1112.3	1112.3	1097.4	1041.2	956.1	868.7	787.4	711.1	660.2	650.9
50°	1066.1	1051.7	1047.4	1040.1	985.4	899.7	816.7	738.3	662.6	614.0	605.0
52.5°	1000.6	988.3	991.2	977.8	924.8	840.9	764.0	683.0	613.7	569.6	560.5
55°	931.6	914.0	916.7	911.7	861.7	780.4	705.0	637.4	565.8	524.3	515.8
57.5°	859.9	837.1	846.5	843.6	794.4	718.4	650.9	585.7	518.1	479.8	471.6
60°	786.5	764.6	774.3	771.6	725.4	656.4	595.0	534.5	470.8	436.0	427.8
62.5°	711.1	690.9	699.7	697.7	655.3	593.0	539.5	483.9	423.1	391.8	384.2
65°	635.1	615.8	623.7	622.2	583.0	535.7	482.5	431.6	375.1	348.0	340.3
67.5°	557.3	539.5	546.8	546.8	510.8	465.5	425.1	378.7	328.1	304.7	297.7
70°	480.1	463.4	469.9	469.3	438.9	402.0	367.2	325.7	280.4	261.1	255.3
72.5°	402.3	387.7	393.6	393.0	367.5	343.9	309.4	273.4	233.9	218.4	213.2
75°	326.9	313.2	318.7	318.1	297.4	275.1	252.0	222.2	188.3	177.5	172.2
77.5°	255.0	240.9	245.6	245.6	230.4	214.3	195.9	172.8	148.8	137.1	133.3
80°	186.0	179.2	176.9	177.2	167.0	156.4	147.1	124.9	107.3	99.4	96.8
82.5°	122.2	116.7	114.3	114.9	109.1	102.6	96.8	81.3	69.6	64.9	63.4
85°	64.9	60.8	58.8	60.2	59.1	55.6	52.6	42.1	34.8	33.0	32.2
87.5°	20.5	17.8	16.4	21.6	18.4	16.4	15.8	12.6	9.6	9.6	9.4
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°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1251.7	1251.7	1240.3	1237.7	1236.5	1238.0	1226.6	1224.6	1240.9	1235.4	1222.8
5°	1241.8	1241.2	1225.1	1222.2	1222.2	1220.5	1207.6	1204.7	1221.0	1216.4	1202.6
7.5°	1229.5	1227.8	1208.8	1206.7	1203.8	1202.6	1188.3	1186.2	1200.3	1197.4	1184.5
10°	1214.6	1212.9	1190.3	1188.9	1185.7	1183.3	1169.9	1168.4	1182.7	1178.1	1167.8
12.5°	1195.0	1191.8	1168.7	1167.2	1164.6	1163.7	1150.6	1150.0	1165.8	1161.1	1150.3
15°	1169.3	1166.7	1140.9	1141.5	1141.8	1141.8	1131.3	1130.7	1146.2	1144.1	1132.4
17.5°	1140.9	1137.4	1112.9	1114.6	1116.7	1119.0	1110.8	1112.3	1128.6	1126.0	1115.5
20°	1108.8	1105.3	1081.3	1086.2	1090.6	1095.3	1090.1	1094.1	1109.3	1108.2	1100.3
22.5°	1072.8	1069.3	1047.1	1054.7	1062.0	1070.8	1068.4	1073.1	1089.2	1088.9	1081.9
25°	1028.9	1029.8	1010.2	1019.6	1031.9	1044.1	1045.0	1052.6	1070.5	1068.7	1062.3
27.5°	988.0	989.2	968.4	984.2	1000.6	1016.4	1020.2	1030.7	1048.8	1047.4	1041.8
30°	945.0	946.5	926.3	947.9	967.8	987.1	995.3	1009.6	1028.1	1028.1	1022.2
32.5°	900.3	902.9	881.9	910.8	933.9	956.4	970.8	985.7	1006.7	1006.1	1001.2
35°	854.4	857.3	838.0	874.8	897.9	925.4	943.3	963.2	981.9	982.2	978.4
37.5°	807.6	811.1	793.6	833.9	860.2	892.7	915.5	935.4	956.1	957.3	953.8
40°	761.1	764.9	749.7	788.6	821.9	858.2	884.5	907.9	930.7	931.3	928.9
42.5°	714.6	718.7	707.3	745.3	783.0	821.9	852.9	879.5	902.9	904.4	901.7
45°	669.3	672.8	664.6	706.1	742.4	784.8	820.5	850.6	874.3	876.3	875.4
47.5°	624.3	627.5	620.2	658.2	700.0	745.0	786.3	819.6	844.7	847.1	846.5
50°	580.1	582.7	574.8	614.6	656.1	704.1	747.1	785.7	813.7	816.1	815.8
52.5°	536.3	538.9	532.2	574.0	611.7	662.3	709.1	750.9	778.6	782.2	782.7
55°	493.9	495.0	489.8	529.8	566.4	619.3	673.1	713.7	741.5	744.4	746.2
57.5°	451.5	451.8	447.4	485.7	520.8	574.8	631.3	674.0	700.3	703.2	705.8
60°	409.4	409.1	404.1	441.2	474.9	528.4	587.1	629.5	655.0	657.6	661.1
62.5°	367.5	366.7	362.3	396.5	428.1	481.0	540.1	581.0	605.3	607.0	611.7
65°	326.0	325.1	321.1	352.6	381.3	431.9	489.8	528.7	550.6	552.9	552.0
67.5°	285.1	283.3	280.1	308.5	334.5	381.3	436.8	474.0	492.1	494.1	499.7
70°	244.2	242.1	234.8	264.9	287.7	329.5	381.3	414.3	429.5	431.6	430.7
72.5°	203.8	201.8	193.9	221.6	240.9	277.5	323.7	351.2	364.3	366.1	366.1
75°	164.6	163.4	158.5	179.5	195.6	225.4	264.6	287.4	297.7	299.7	299.1
77.5°	126.9	126.0	121.1	139.2	151.8	174.0	205.6	223.4	231.0	233.3	238.3
80°	90.9	90.6	82.7	100.6	106.1	124.9	148.0	161.7	165.8	169.0	172.5
82.5°	58.2	58.5	50.6	65.8	68.1	80.1	94.4	102.9	105.8	108.5	111.1
85°	28.4	29.5	25.1	34.8	35.1	41.2	47.4	50.6	51.8	53.8	56.1
87.5°	7.3	8.5	4.7	9.9	8.8	11.4	13.2	14.0	13.7	15.2	16.1
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°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1226.9	1236.2	1231.6	1246.8	1252.6	1243.3	1259.6	1259.9	1248.2	1262.0	1269.6
5°	1207.9	1217.5	1214.6	1230.4	1237.7	1229.5	1249.4	1253.2	1241.8	1257.3	1269.6
7.5°	1188.6	1200.0	1196.2	1212.3	1221.0	1214.6	1236.0	1242.1	1233.3	1250.3	1266.7
10°	1171.9	1181.6	1177.5	1194.4	1202.0	1196.8	1217.8	1229.2	1221.0	1241.8	1261.4
12.5°	1155.5	1163.4	1158.8	1172.8	1180.1	1173.4	1199.1	1209.6	1203.8	1225.4	1250.6
15°	1134.5	1143.3	1136.8	1149.4	1155.0	1149.1	1170.2	1188.3	1181.0	1204.7	1232.4
17.5°	1118.4	1123.4	1114.6	1124.6	1127.8	1119.9	1141.2	1159.1	1153.8	1179.5	1211.7
20°	1100.6	1104.7	1092.4	1097.9	1097.7	1087.7	1107.3	1124.8	1121.3	1149.7	1186.2
22.5°	1080.7	1082.7	1068.4	1069.6	1069.0	1052.6	1070.2	1088.0	1086.5	1115.2	1156.1
25°	1059.6	1059.9	1041.5	1040.9	1034.5	1015.2	1030.7	1050.9	1046.5	1077.5	1120.5
27.5°	1038.9	1036.0	1013.7	1008.5	998.2	975.1	988.9	1007.0	1004.4	1034.8	1082.4
30°	1016.7	1012.9	985.7	976.0	961.1	934.5	945.9	962.9	964.3	990.9	1040.9
32.5°	995.6	986.0	955.8	941.8	923.1	892.1	898.2	915.5	917.8	944.7	996.2
35°	968.4	962.0	924.8	900.9	882.4	848.5	855.0	867.0	870.5	896.8	949.1
37.5°	942.7	932.4	893.0	863.7	840.1	804.4	806.1	818.4	821.9	848.5	900.3
40°	916.1	901.5	859.1	824.8	797.7	760.2	758.2	771.0	773.7	799.7	846.5
42.5°	887.7	870.2	822.5	785.1	753.8	715.8	711.7	722.8	725.7	751.2	797.1
45°	859.1	838.0	785.1	744.1	709.9	671.0	667.0	675.4	679.8	703.8	747.9
47.5°	828.6	804.1	746.5	700.9	665.5	626.6	621.6	630.1	633.6	657.3	699.1
50°	796.8	767.0	706.7	656.4	621.3	583.0	575.7	585.7	588.9	611.1	652.0
52.5°	761.7	728.6	664.3	611.7	576.6	540.1	531.3	540.9	544.7	566.4	604.1
55°	724.6	688.9	621.6	570.5	532.5	496.8	489.5	493.3	501.5	521.9	557.0
57.5°	682.7	647.4	576.6	524.6	488.0	453.8	447.7	451.2	458.8	478.7	510.2
60°	638.3	600.9	530.7	478.7	443.3	410.8	405.3	408.5	416.7	434.8	464.0
62.5°	594.4	552.3	483.3	431.6	399.4	369.3	367.8	366.7	374.3	391.8	417.5
65°	541.2	500.9	433.9	384.8	355.6	328.4	322.5	325.1	332.5	348.5	375.4
67.5°	484.2	447.7	383.3	338.0	312.0	287.7	282.7	283.9	291.5	305.6	328.9
70°	423.7	391.5	331.6	290.9	269.0	246.2	243.0	243.3	250.6	262.9	283.3
72.5°	360.2	331.3	279.2	244.4	226.3	209.9	207.0	203.5	210.2	220.8	238.3
75°	295.6	270.2	227.2	198.8	184.5	170.8	168.1	164.6	171.3	180.4	194.2
77.5°	230.4	209.9	176.6	154.7	143.6	133.3	131.0	127.2	133.9	140.6	151.5
80°	166.7	151.8	131.9	108.8	105.0	98.2	95.9	91.8	98.2	102.6	110.8
82.5°	107.6	97.7	86.3	70.2	69.6	64.6	63.4	58.8	64.6	67.3	73.4
85°	54.4	49.7	46.8	35.7	36.8	33.6	33.3	28.4	33.0	34.2	37.7
87.5°	15.5	16.4	14.6	8.8	11.1	10.5	10.5	7.6	10.5	10.5	12.0
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: P837844

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1254.7	1259.6	1260.8	1260.5	1263.7	1281.3	1275.4	1281.3
5°	1257.6	1268.7	1271.6	1275.7	1281.0	1300.9	1294.4	1301.5
7.5°	1259.3	1276.0	1282.4	1290.3	1298.8	1321.0	1315.8	1322.8
10°	1259.3	1281.0	1290.3	1303.5	1314.9	1340.6	1335.7	1343.8
12.5°	1254.1	1281.9	1295.0	1313.4	1328.1	1355.8	1353.8	1359.6
15°	1243.3	1277.5	1295.6	1319.3	1337.4	1368.4	1367.5	1374.6
17.5°	1228.6	1269.9	1291.8	1321.6	1344.4	1379.2	1381.3	1385.1
20°	1210.2	1255.5	1284.2	1320.8	1349.4	1387.7	1390.3	1395.6
22.5°	1186.0	1238.3	1272.8	1316.9	1350.0	1391.2	1395.9	1400.9
25°	1157.3	1217.5	1257.9	1309.6	1347.1	1390.9	1397.4	1401.7
27.5°	1124.6	1190.6	1238.9	1297.9	1338.9	1386.2	1394.1	1399.4
30°	1086.5	1162.0	1217.2	1282.7	1327.8	1377.5	1386.0	1391.2
32.5°	1047.4	1130.4	1191.5	1263.1	1311.7	1363.4	1370.7	1374.8
35°	1004.7	1092.1	1160.5	1238.0	1290.9	1340.9	1346.5	1350.9
37.5°	958.2	1050.6	1125.1	1209.6	1261.7	1309.6	1314.6	1319.6
40°	910.2	1007.0	1085.4	1174.8	1226.9	1271.3	1276.6	1280.1
42.5°	862.0	958.8	1043.0	1133.9	1185.7	1228.4	1231.6	1235.1
45°	813.2	908.8	995.3	1088.6	1139.8	1179.8	1181.0	1183.9
47.5°	763.4	857.0	943.0	1036.8	1087.4	1124.0	1125.1	1127.5
50°	713.4	805.3	887.1	981.0	1030.4	1069.0	1063.7	1066.1
52.5°	664.3	750.9	834.5	920.8	969.6	1003.8	1005.3	1000.6
55°	616.1	697.7	774.6	857.6	904.1	930.7	929.8	931.6
57.5°	567.2	643.9	714.3	790.3	835.7	860.8	866.1	859.9
60°	517.5	589.5	652.6	721.3	765.2	786.3	792.4	786.5
62.5°	468.1	534.2	591.5	651.5	692.1	718.1	717.5	711.1
65°	418.7	478.7	529.8	580.7	616.1	642.1	640.9	635.1
67.5°	373.1	422.5	468.4	509.6	540.3	558.2	564.3	557.3
70°	322.8	365.5	405.8	438.9	464.3	480.4	486.3	480.1
72.5°	272.5	308.8	337.1	369.0	388.6	402.0	408.2	402.3
75°	222.8	252.6	275.7	300.6	314.3	325.7	332.7	326.9
77.5°	174.6	197.7	216.1	234.2	250.0	252.6	258.8	255.0
80°	128.7	145.3	158.8	170.8	182.2	183.3	188.3	186.0
82.5°	85.7	96.8	100.3	112.9	120.2	119.0	124.0	122.2
85°	45.3	52.0	58.2	62.0	66.1	62.3	66.7	64.9
87.5°	15.2	16.1	14.0	19.9	21.9	18.7	21.3	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)