

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: P837716

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-20-120-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: P837716
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-LD4-2LO-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

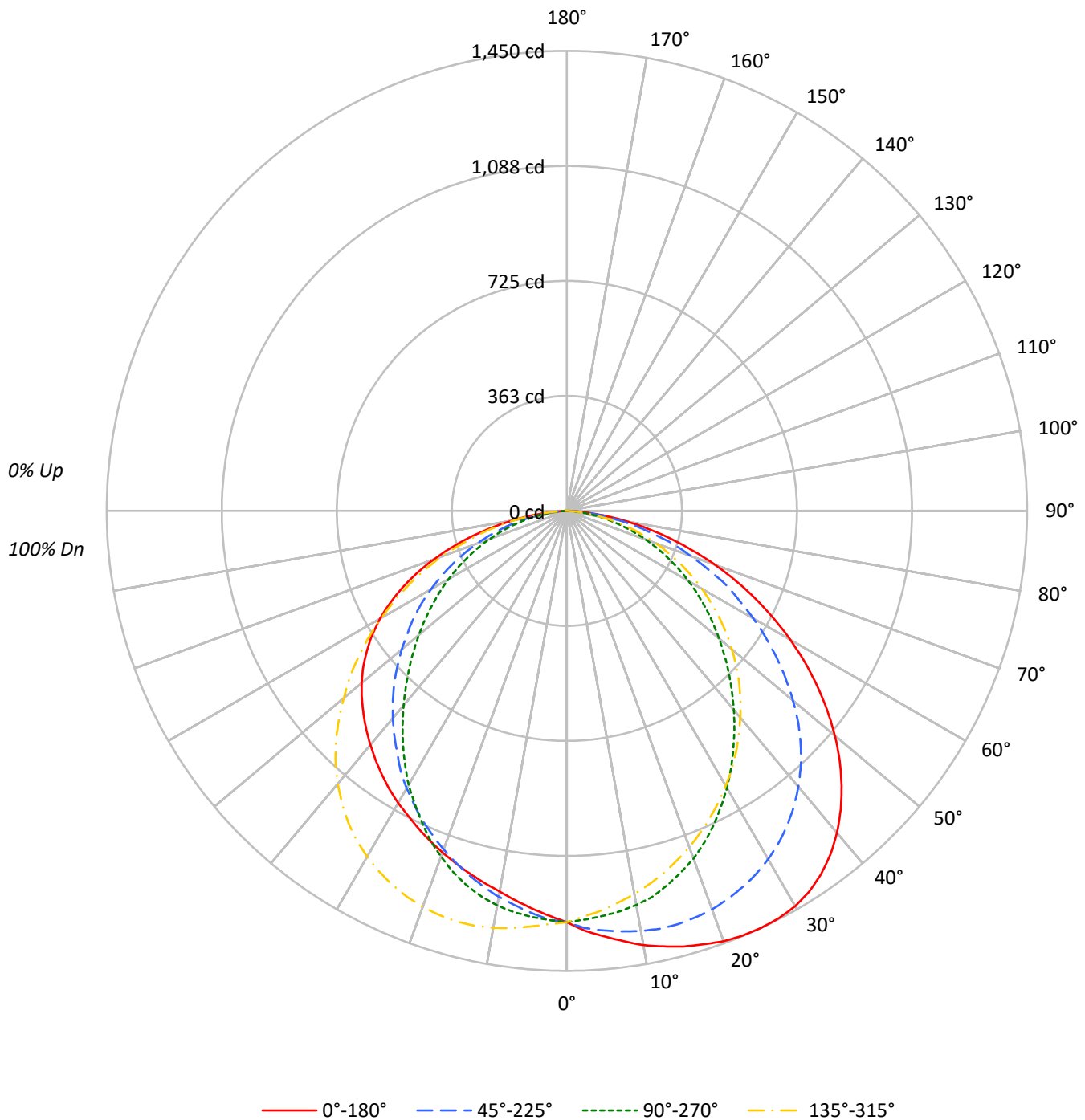
Lumens per Lamp: N/A
Luminaire Lumens: 3803.3 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3488	3488	3488	3488
5°	3636	3463	3398	3469
10°	3798	3446	3329	3451
15°	3960	3402	3296	3402
20°	4133	3340	3282	3321
25°	4304	3246	3282	3213
30°	4471	3134	3304	3099
35°	4589	3005	3337	2957
40°	4651	2876	3383	2811
45°	4660	2745	3449	2676
50°	4616	2619	3533	2550
55°	4520	2502	3612	2433
60°	4378	2381	3660	2319
65°	4182	2241	3641	2189
70°	3906	2077	3511	2039
75°	3515	1852	3222	1842
80°	2980	1551	2709	1574
85°	2072	1028	1717	1056

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.2
10°-20°	356.4	9.4
20°-30°	546.2	14.4
30°-40°	664.2	17.5
40°-50°	690.4	18.2
50°-60°	623.7	16.4
60°-70°	474.1	12.5
70°-80°	264.3	7.0
80°-90°	60.9	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°	1025.7	27.0
0°-40°	1689.8	44.4
0°-60°	3003.9	79.0
0°-90°	3803.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1346	1282	1258	1284	1346	130
15°	1422	1221	1183	1221	1422	403
25°	1450	1093	1105	1082	1450	670
35°	1397	915	1016	900	1397	873
45°	1224	721	906	703	1224	943
55°	963	533	770	519	963	860
65°	657	352	572	344	657	649
75°	338	178	310	177	338	359
85°	67	33	56	34	67	85
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°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1325.1	1305.7	1306.0	1322.9	1309.9	1316.3	1298.1	1305.1	1303.0	1304.5	1289.7
5°	1345.9	1325.1	1324.8	1339.3	1324.8	1327.5	1304.5	1309.0	1302.4	1298.1	1282.1
7.5°	1368.0	1347.1	1345.0	1357.7	1338.7	1336.6	1311.2	1311.2	1299.1	1288.5	1273.4
10°	1389.8	1368.3	1365.6	1375.3	1351.7	1344.7	1313.9	1309.0	1293.0	1277.3	1261.0
12.5°	1406.1	1384.3	1382.2	1388.3	1361.7	1349.0	1313.9	1304.5	1280.9	1258.8	1246.1
15°	1421.5	1399.1	1393.4	1396.4	1365.9	1349.0	1309.6	1295.1	1264.9	1235.9	1221.0
17.5°	1432.4	1410.9	1405.2	1404.9	1368.0	1343.8	1300.6	1280.6	1244.3	1209.2	1194.4
20°	1443.3	1421.8	1414.6	1409.1	1367.4	1336.9	1287.3	1260.4	1218.0	1178.7	1166.3
22.5°	1448.7	1426.7	1418.8	1410.6	1363.5	1324.2	1270.9	1236.8	1188.4	1141.5	1131.2
25°	1449.6	1427.0	1418.5	1406.7	1355.6	1309.0	1249.8	1208.3	1154.2	1102.2	1093.4
27.5°	1447.2	1422.4	1414.0	1399.8	1343.8	1290.6	1224.7	1176.0	1117.9	1060.5	1051.1
30°	1438.8	1413.7	1405.5	1387.1	1327.2	1267.9	1197.2	1140.0	1077.7	1016.6	1008.5
32.5°	1421.8	1397.3	1390.7	1372.2	1309.0	1241.6	1165.1	1101.3	1033.3	974.9	962.8
35°	1397.0	1372.5	1368.3	1349.0	1283.6	1210.2	1130.0	1059.0	986.1	926.5	914.7
37.5°	1364.7	1344.1	1337.8	1318.7	1253.7	1174.5	1089.8	1013.0	938.0	873.9	866.6
40°	1323.9	1304.5	1299.7	1282.7	1218.9	1134.9	1046.3	965.5	888.4	828.8	818.6
42.5°	1277.3	1259.1	1256.4	1238.9	1176.0	1091.0	999.1	916.2	836.7	779.3	769.0
45°	1224.4	1206.8	1206.2	1189.6	1129.1	1042.3	949.5	866.3	786.2	726.6	721.2
47.5°	1166.0	1150.3	1150.3	1134.9	1076.8	988.8	898.4	814.3	735.4	682.8	673.1
50°	1102.5	1087.7	1083.2	1075.6	1019.0	930.4	844.6	763.5	685.2	635.0	625.6
52.5°	1034.8	1022.1	1025.1	1011.2	956.5	869.7	790.1	706.4	634.7	589.1	579.7
55°	963.4	945.3	948.0	942.8	891.1	807.1	729.1	659.2	585.1	542.2	533.4
57.5°	889.3	865.7	875.4	872.4	821.6	743.0	673.1	605.7	535.8	496.2	487.8
60°	813.4	790.7	800.7	798.0	750.2	678.9	615.4	552.8	486.8	450.9	442.4
62.5°	735.4	714.5	723.6	721.5	677.7	613.2	557.9	500.5	437.6	405.2	397.3
65°	656.8	636.8	645.0	643.5	603.0	554.0	498.9	446.3	388.0	359.8	352.0
67.5°	576.4	557.9	565.5	565.5	528.3	481.4	439.7	391.6	339.3	315.1	307.8
70°	496.5	479.3	485.9	485.3	453.9	415.8	379.8	336.9	290.0	270.0	264.0
72.5°	416.1	401.0	407.0	406.4	380.1	355.6	319.9	282.7	241.9	225.9	220.4
75°	338.1	323.9	329.6	329.0	307.5	284.5	260.7	229.8	194.7	183.5	178.1
77.5°	263.7	249.2	254.0	254.0	238.3	221.6	202.6	178.7	153.9	141.8	137.9
80°	192.3	185.4	182.9	183.2	172.7	161.8	152.1	129.1	111.0	102.8	100.1
82.5°	126.4	120.7	118.2	118.8	112.8	106.1	100.1	84.1	72.0	67.1	65.6
85°	67.1	62.9	60.8	62.3	61.1	57.5	54.4	43.5	36.0	34.2	33.3
87.5°	21.2	18.4	16.9	22.4	19.1	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°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1294.5	1294.5	1282.7	1280.0	1278.8	1280.3	1268.5	1266.4	1283.3	1277.6	1264.6
5°	1284.2	1283.6	1267.0	1264.0	1264.0	1262.2	1248.9	1245.8	1262.8	1257.9	1243.7
7.5°	1271.5	1269.7	1250.1	1248.0	1244.9	1243.7	1228.9	1226.8	1241.3	1238.3	1225.0
10°	1256.1	1254.3	1231.0	1229.5	1226.2	1223.8	1209.9	1208.3	1223.2	1218.3	1207.7
12.5°	1235.9	1232.5	1208.6	1207.1	1204.4	1203.5	1189.9	1189.3	1205.6	1200.8	1189.6
15°	1209.2	1206.5	1179.9	1180.5	1180.8	1180.8	1169.9	1169.3	1185.4	1183.2	1171.1
17.5°	1179.9	1176.3	1150.9	1152.7	1154.8	1157.2	1148.8	1150.3	1167.2	1164.5	1153.6
20°	1146.7	1143.0	1118.2	1123.4	1127.9	1132.7	1127.3	1131.5	1147.3	1146.0	1137.9
22.5°	1109.5	1105.8	1082.8	1090.7	1098.3	1107.3	1104.9	1109.8	1126.4	1126.1	1118.8
25°	1064.1	1065.0	1044.7	1054.4	1067.1	1079.8	1080.7	1088.6	1107.0	1105.2	1098.6
27.5°	1021.8	1023.0	1001.5	1017.8	1034.8	1051.1	1055.0	1065.9	1084.7	1083.2	1077.4
30°	977.3	978.8	958.0	980.3	1000.9	1020.9	1029.3	1044.1	1063.2	1063.2	1057.1
32.5°	931.1	933.8	912.0	941.9	965.8	989.1	1003.9	1019.3	1041.1	1040.5	1035.4
35°	883.6	886.6	866.6	904.7	928.6	957.1	975.5	996.1	1015.4	1015.7	1011.8
37.5°	835.2	838.8	820.7	862.4	889.6	923.2	946.8	967.3	988.8	990.0	986.4
40°	787.1	791.0	775.3	815.5	850.0	887.5	914.7	938.9	962.5	963.1	960.7
42.5°	739.0	743.3	731.5	770.8	809.8	850.0	882.1	909.6	933.8	935.3	932.6
45°	692.2	695.8	687.3	730.3	767.8	811.6	848.5	879.6	904.1	906.3	905.3
47.5°	645.6	648.9	641.4	680.7	723.9	770.5	813.1	847.6	873.6	876.0	875.4
50°	599.9	602.7	594.5	635.6	678.6	728.1	772.6	812.5	841.5	844.0	843.7
52.5°	554.6	557.3	550.3	593.6	632.6	684.9	733.3	776.5	805.3	808.9	809.5
55°	510.7	511.9	506.5	547.9	585.7	640.5	696.1	738.1	766.9	769.9	771.7
57.5°	466.9	467.2	462.7	502.3	538.6	594.5	652.9	697.0	724.2	727.2	730.0
60°	423.3	423.0	417.9	456.3	491.1	546.4	607.2	651.0	677.3	680.1	683.7
62.5°	380.1	379.2	374.7	410.0	442.7	497.4	558.5	600.8	625.9	627.8	632.6
65°	337.2	336.3	332.0	364.7	394.3	446.6	506.5	546.7	569.4	571.8	570.9
67.5°	294.8	293.0	289.7	319.0	345.9	394.3	451.8	490.2	508.9	511.0	516.8
70°	252.5	250.4	242.8	274.0	297.5	340.8	394.3	428.5	444.2	446.3	445.4
72.5°	210.8	208.6	200.5	229.2	249.2	287.0	334.7	363.2	376.8	378.6	378.6
75°	170.2	169.0	163.9	185.7	202.3	233.1	273.7	297.2	307.8	309.9	309.3
77.5°	131.2	130.3	125.2	143.9	156.9	179.9	212.6	231.0	238.9	241.3	246.4
80°	94.0	93.7	85.6	104.0	109.8	129.1	153.0	167.2	171.5	174.8	178.4
82.5°	60.2	60.5	52.3	68.0	70.5	82.9	97.7	106.4	109.5	112.2	114.9
85°	29.3	30.5	26.0	36.0	36.3	42.6	49.0	52.3	53.5	55.6	58.1
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°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1268.8	1278.5	1273.7	1289.4	1295.4	1285.8	1302.7	1303.0	1290.9	1305.1	1313.0
5°	1249.2	1259.1	1256.1	1272.4	1280.0	1271.5	1292.1	1296.0	1284.2	1300.3	1313.0
7.5°	1229.2	1241.0	1237.1	1253.7	1262.8	1256.1	1278.2	1284.5	1275.5	1293.0	1309.9
10°	1212.0	1221.9	1217.7	1235.3	1243.1	1237.7	1259.4	1271.2	1262.8	1284.2	1304.5
12.5°	1195.0	1203.2	1198.4	1212.9	1220.4	1213.5	1240.1	1251.0	1244.9	1267.3	1293.3
15°	1173.3	1182.3	1175.7	1188.7	1194.4	1188.4	1210.2	1228.9	1221.3	1245.8	1274.6
17.5°	1156.6	1161.8	1152.7	1163.0	1166.3	1158.1	1180.2	1198.7	1193.2	1219.8	1253.1
20°	1138.2	1142.4	1129.7	1135.5	1135.2	1124.9	1145.1	1163.3	1159.7	1189.0	1226.8
22.5°	1117.6	1119.7	1104.9	1106.1	1105.5	1088.6	1106.7	1125.2	1123.7	1153.3	1195.6
25°	1095.9	1096.2	1077.1	1076.5	1069.8	1049.9	1065.9	1086.8	1082.2	1114.3	1158.7
27.5°	1074.4	1071.4	1048.4	1042.9	1032.4	1008.5	1022.7	1041.4	1038.7	1070.1	1119.4
30°	1051.4	1047.5	1019.3	1009.4	993.9	966.4	978.2	995.8	997.3	1024.8	1076.5
32.5°	1029.6	1019.7	988.5	974.0	954.6	922.6	928.9	946.8	949.2	977.0	1030.2
35°	1001.5	994.9	956.5	931.7	912.6	877.5	884.2	896.6	900.2	927.4	981.5
37.5°	974.9	964.3	923.5	893.3	868.8	831.9	833.7	846.4	850.0	877.5	931.1
40°	947.4	932.3	888.4	853.0	824.9	786.2	784.1	797.4	800.1	827.0	875.4
42.5°	918.0	899.9	850.6	811.9	779.6	740.2	736.0	747.5	750.5	776.8	824.3
45°	888.4	866.6	811.9	769.6	734.2	694.0	689.7	698.5	703.1	727.8	773.5
47.5°	857.0	831.6	772.0	724.8	688.2	648.0	642.9	651.6	655.3	679.8	723.0
50°	824.0	793.2	730.9	678.9	642.6	603.0	595.4	605.7	609.0	632.0	674.3
52.5°	787.7	753.5	687.0	632.6	596.3	558.5	549.4	559.4	563.3	585.7	624.7
55°	749.3	712.4	642.9	590.0	550.6	513.8	506.2	510.1	518.6	539.8	576.0
57.5°	706.1	669.5	596.3	542.5	504.7	469.3	463.0	466.6	474.4	495.0	527.7
60°	660.1	621.4	548.8	495.0	458.4	424.9	419.1	422.4	430.9	449.7	479.9
62.5°	614.8	571.2	499.8	446.3	413.1	381.9	380.4	379.2	387.1	405.2	431.8
65°	559.7	518.0	448.7	397.9	367.7	339.6	333.5	336.3	343.8	360.4	388.3
67.5°	500.8	463.0	396.4	349.6	322.6	297.5	292.4	293.6	301.5	316.0	340.2
70°	438.2	404.9	342.9	300.9	278.2	254.6	251.3	251.6	259.1	271.8	293.0
72.5°	372.5	342.6	288.8	252.8	234.0	217.1	214.1	210.5	217.4	228.3	246.4
75°	305.7	279.4	235.0	205.6	190.8	176.6	173.9	170.2	177.2	186.6	200.8
77.5°	238.3	217.1	182.6	160.0	148.5	137.9	135.5	131.5	138.5	145.4	156.6
80°	172.4	156.9	136.4	112.5	108.6	101.6	99.2	94.9	101.6	106.1	114.6
82.5°	111.3	101.0	89.2	72.6	72.0	66.8	65.6	60.8	66.8	69.5	75.9
85°	56.2	51.4	48.4	36.9	38.1	34.8	34.5	29.3	34.2	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: P837716

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1297.5	1302.7	1303.9	1303.6	1306.9	1325.1	1319.0	1325.1
5°	1300.6	1312.1	1315.1	1319.3	1324.8	1345.3	1338.7	1345.9
7.5°	1302.4	1319.6	1326.3	1334.4	1343.2	1366.2	1360.7	1368.0
10°	1302.4	1324.8	1334.4	1348.0	1359.8	1386.4	1381.3	1389.8
12.5°	1296.9	1325.7	1339.3	1358.3	1373.4	1402.2	1400.1	1406.1
15°	1285.8	1321.1	1339.9	1364.4	1383.1	1415.2	1414.3	1421.5
17.5°	1270.6	1313.3	1335.9	1366.8	1390.4	1426.4	1428.5	1432.4
20°	1251.6	1298.5	1328.1	1365.9	1395.5	1435.1	1437.9	1443.3
22.5°	1226.5	1280.6	1316.3	1362.0	1396.1	1438.8	1443.6	1448.7
25°	1196.8	1259.1	1300.9	1354.4	1393.1	1438.5	1445.1	1449.6
27.5°	1163.0	1231.3	1281.2	1342.3	1384.6	1433.6	1441.8	1447.2
30°	1123.7	1201.7	1258.8	1326.6	1373.1	1424.5	1433.3	1438.8
32.5°	1083.2	1169.0	1232.2	1306.3	1356.5	1410.0	1417.6	1421.8
35°	1039.0	1129.4	1200.2	1280.3	1335.0	1386.7	1392.5	1397.0
37.5°	990.9	1086.5	1163.6	1251.0	1304.8	1354.4	1359.5	1364.7
40°	941.3	1041.4	1122.5	1215.0	1268.8	1314.8	1320.2	1323.9
42.5°	891.4	991.5	1078.6	1172.7	1226.2	1270.3	1273.7	1277.3
45°	840.9	939.8	1029.3	1125.8	1178.7	1220.1	1221.3	1224.4
47.5°	789.5	886.3	975.2	1072.3	1124.6	1162.4	1163.6	1166.0
50°	737.8	832.8	917.4	1014.5	1065.6	1105.5	1100.1	1102.5
52.5°	687.0	776.5	863.0	952.2	1002.7	1038.1	1039.6	1034.8
55°	637.1	721.5	801.0	886.9	935.0	962.5	961.6	963.4
57.5°	586.6	665.9	738.7	817.4	864.2	890.2	895.7	889.3
60°	535.2	609.6	674.9	746.0	791.3	813.1	819.5	813.4
62.5°	484.1	552.5	611.7	673.7	715.8	742.7	742.1	735.4
65°	433.0	495.0	547.9	600.5	637.1	664.0	662.8	656.8
67.5°	385.8	436.9	484.4	527.1	558.8	577.3	583.6	576.4
70°	333.8	378.0	419.7	453.9	480.2	496.8	502.9	496.5
72.5°	281.8	319.3	348.7	381.6	401.9	415.8	422.1	416.1
75°	230.4	261.3	285.2	310.9	325.1	336.9	344.1	338.1
77.5°	180.5	204.4	223.5	242.2	258.5	261.3	267.6	263.7
80°	133.1	150.3	164.2	176.6	188.4	189.6	194.7	192.3
82.5°	88.6	100.1	103.7	116.7	124.3	123.1	128.2	126.4
85°	46.9	53.8	60.2	64.1	68.3	64.4	68.9	67.1
87.5°	15.7	16.6	14.5	20.6	22.7	19.4	22.1	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)