

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: P837899

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3LO-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837899
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-LD4-3LO-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

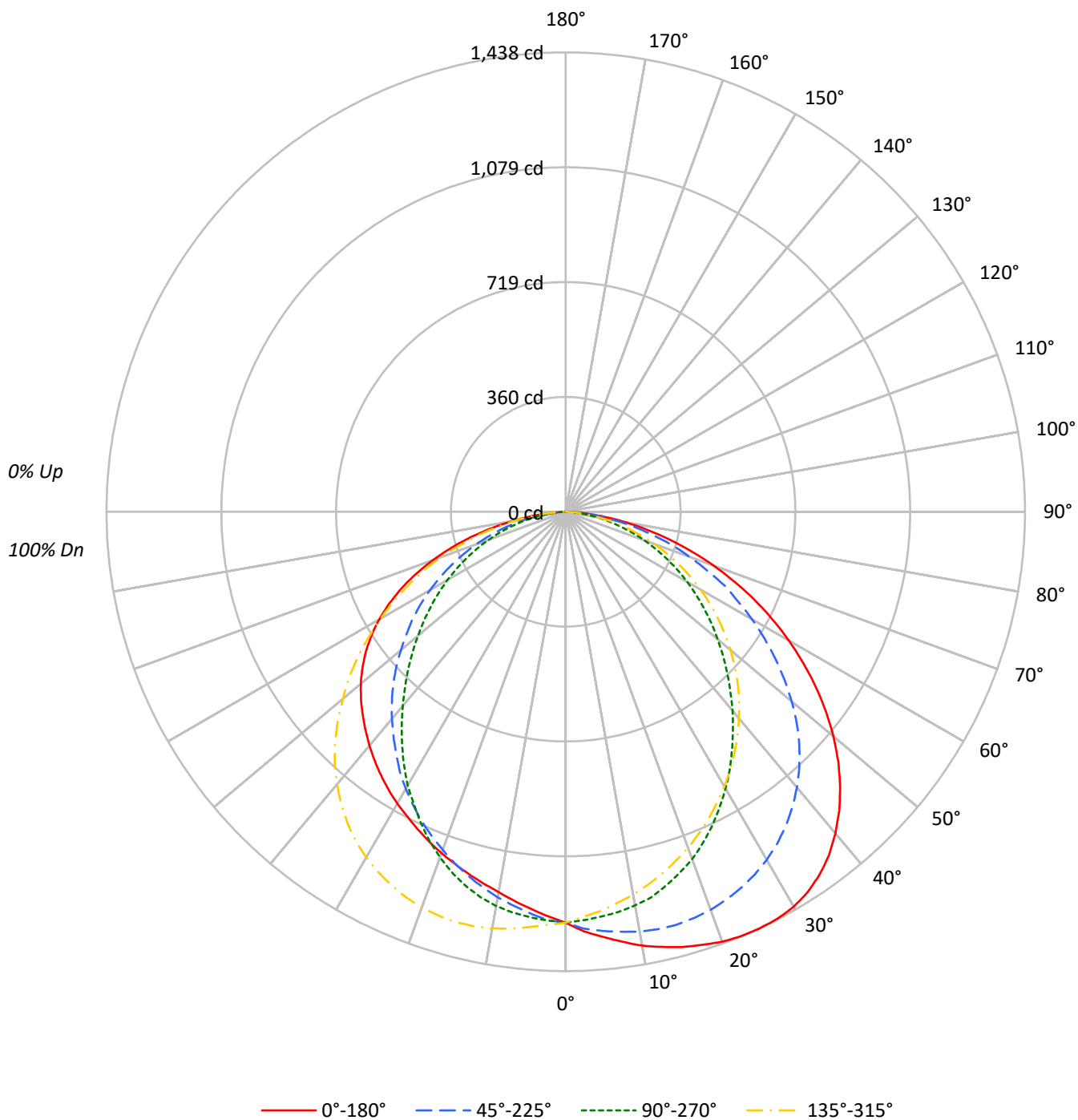
Lumens per Lamp: N/A
Luminaire Lumens: 3773.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3461	3461	3461	3461
5°	3608	3437	3372	3442
10°	3768	3419	3303	3424
15°	3930	3375	3271	3376
20°	4101	3314	3257	3295
25°	4271	3222	3256	3189
30°	4436	3109	3278	3075
35°	4554	2982	3311	2935
40°	4614	2853	3357	2789
45°	4623	2723	3422	2655
50°	4580	2599	3506	2530
55°	4485	2483	3584	2414
60°	4344	2363	3632	2301
65°	4150	2224	3613	2173
70°	3877	2061	3485	2023
75°	3488	1837	3198	1828
80°	2957	1539	2687	1562
85°	2056	1019	1704	1047

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°	122.1	3.2
10°-20°	353.7	9.4
20°-30°	542.0	14.4
30°-40°	659.0	17.5
40°-50°	685.1	18.2
50°-60°	618.8	16.4
60°-70°	470.5	12.5
70°-80°	262.3	6.9
80°-90°	60.4	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°	1017.8	27.0
0°-40°	1676.8	44.4
0°-60°	2980.8	79.0
0°-90°	3773.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1286	1286	1286	1286	1286	
5°	1336	1272	1248	1274	1336	129
15°	1411	1212	1174	1212	1411	400
25°	1438	1085	1097	1074	1438	664
35°	1386	908	1008	893	1386	866
45°	1215	716	899	698	1215	935
55°	956	529	764	515	956	853
65°	652	349	567	341	652	644
75°	336	177	308	176	336	356
85°	67	33	55	34	67	84
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°	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3
2.5°	1314.8	1295.6	1295.9	1312.7	1299.8	1306.1	1288.1	1295.0	1292.9	1294.4	1279.7
5°	1335.5	1314.8	1314.5	1328.9	1314.5	1317.2	1294.4	1298.9	1292.3	1288.1	1272.2
7.5°	1357.5	1336.7	1334.6	1347.2	1328.3	1326.2	1301.0	1301.0	1289.0	1278.5	1263.5
10°	1379.1	1357.8	1355.1	1364.7	1341.2	1334.3	1303.7	1298.9	1283.0	1267.4	1251.2
12.5°	1395.3	1373.7	1371.6	1377.6	1351.1	1338.5	1303.7	1294.4	1271.0	1249.1	1236.5
15°	1410.6	1388.4	1382.7	1385.7	1355.4	1338.5	1299.5	1285.1	1255.1	1226.3	1211.6
17.5°	1421.4	1400.1	1394.4	1394.1	1357.5	1333.4	1290.5	1270.7	1234.7	1199.9	1185.2
20°	1432.2	1410.9	1403.7	1398.3	1356.9	1326.5	1277.3	1250.6	1208.6	1169.6	1157.3
22.5°	1437.6	1415.7	1407.9	1399.8	1353.0	1313.9	1261.1	1227.2	1179.2	1132.7	1122.5
25°	1438.5	1416.0	1407.6	1395.9	1345.1	1298.9	1240.1	1199.0	1145.3	1093.7	1085.0
27.5°	1436.1	1411.5	1403.1	1389.0	1333.4	1280.6	1215.2	1166.9	1109.3	1052.3	1043.0
30°	1427.7	1402.8	1394.7	1376.4	1316.9	1258.1	1187.9	1131.2	1069.4	1008.8	1000.7
32.5°	1410.9	1386.6	1380.0	1361.7	1298.9	1232.0	1156.1	1092.8	1025.3	967.4	955.4
35°	1386.3	1362.0	1357.8	1338.5	1273.7	1200.8	1121.3	1050.8	978.5	919.4	907.7
37.5°	1354.2	1333.7	1327.4	1308.5	1244.0	1165.4	1081.4	1005.2	930.8	867.2	860.0
40°	1313.6	1294.4	1289.6	1272.8	1209.5	1126.1	1038.2	958.1	881.6	822.5	812.3
42.5°	1267.4	1249.4	1246.7	1229.3	1166.9	1082.6	991.4	909.2	830.3	773.2	763.0
45°	1214.9	1197.5	1196.9	1180.4	1120.4	1034.3	942.2	859.7	780.1	721.0	715.6
47.5°	1157.0	1141.4	1141.4	1126.1	1068.5	981.2	891.5	808.0	729.7	677.5	667.9
50°	1094.0	1079.3	1074.8	1067.3	1011.2	923.3	838.1	757.6	679.9	630.1	620.8
52.5°	1026.8	1014.2	1017.2	1003.4	949.1	863.0	784.0	700.9	629.8	584.5	575.2
55°	956.0	938.0	940.7	935.6	884.3	800.8	723.4	654.1	580.6	538.0	529.3
57.5°	882.5	859.1	868.7	865.7	815.3	737.2	667.9	601.0	531.7	492.4	484.0
60°	807.1	784.6	794.5	791.8	744.4	673.6	610.6	548.5	483.1	447.4	439.0
62.5°	729.7	709.0	718.0	715.9	672.4	608.5	553.6	496.6	434.2	402.1	394.3
65°	651.7	631.9	640.0	638.5	598.3	549.7	495.1	442.9	385.0	357.1	349.3
67.5°	571.9	553.6	561.1	561.1	524.2	477.7	436.3	388.6	336.7	312.7	305.5
70°	492.7	475.6	482.2	481.6	450.4	412.6	376.9	334.3	287.8	267.9	261.9
72.5°	412.9	397.9	403.9	403.3	377.2	352.9	317.5	280.6	240.0	224.1	218.7
75°	335.5	321.4	327.1	326.5	305.2	282.4	258.6	228.0	193.2	182.1	176.7
77.5°	261.6	247.2	252.0	252.0	236.4	219.9	201.0	177.3	152.7	140.7	136.8
80°	190.8	183.9	181.5	181.8	171.3	160.5	150.9	128.1	110.1	102.0	99.3
82.5°	125.4	119.7	117.3	117.9	111.9	105.3	99.3	83.4	71.4	66.6	65.1
85°	66.6	62.4	60.3	61.8	60.6	57.0	54.0	43.2	35.7	33.9	33.0
87.5°	21.0	18.3	16.8	22.2	18.9	16.8	16.2	12.9	9.9	9.9	9.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3
2.5°	1284.5	1284.5	1272.8	1270.1	1268.9	1270.4	1258.7	1256.6	1273.4	1267.7	1254.8
5°	1274.3	1273.7	1257.2	1254.2	1254.2	1252.4	1239.2	1236.2	1253.0	1248.2	1234.1
7.5°	1261.7	1259.9	1240.4	1238.3	1235.3	1234.1	1219.4	1217.3	1231.7	1228.7	1215.5
10°	1246.4	1244.6	1221.5	1220.0	1216.7	1214.3	1200.5	1199.0	1213.7	1208.9	1198.4
12.5°	1226.3	1223.0	1199.3	1197.8	1195.1	1194.2	1180.7	1180.1	1196.3	1191.5	1180.4
15°	1199.9	1197.2	1170.8	1171.4	1171.7	1171.7	1160.9	1160.3	1176.2	1174.1	1162.1
17.5°	1170.8	1167.2	1142.0	1143.8	1145.9	1148.3	1139.9	1141.4	1158.2	1155.5	1144.7
20°	1137.8	1134.2	1109.6	1114.7	1119.2	1124.0	1118.6	1122.8	1138.4	1137.2	1129.1
22.5°	1100.9	1097.3	1074.5	1082.3	1089.8	1098.8	1096.4	1101.2	1117.7	1117.4	1110.2
25°	1055.9	1056.8	1036.7	1046.3	1058.9	1071.5	1072.4	1080.2	1098.5	1096.7	1090.1
27.5°	1013.9	1015.1	993.8	1010.0	1026.8	1043.0	1046.9	1057.7	1076.3	1074.8	1069.1
30°	969.8	971.3	950.6	972.8	993.2	1013.0	1021.4	1036.1	1055.0	1055.0	1049.0
32.5°	923.9	926.6	905.0	934.7	958.4	981.5	996.2	1011.5	1033.1	1032.5	1027.4
35°	876.8	879.8	860.0	897.8	921.5	949.7	968.0	988.4	1007.6	1007.9	1004.0
37.5°	828.8	832.4	814.4	855.8	882.8	916.1	939.5	959.9	981.2	982.4	978.8
40°	781.0	784.9	769.3	809.2	843.5	880.7	907.7	931.7	955.1	955.7	953.3
42.5°	733.3	737.5	725.8	764.8	803.5	843.5	875.3	902.6	926.6	928.1	925.4
45°	686.8	690.4	682.0	724.6	761.8	805.3	842.0	872.9	897.2	899.3	898.4
47.5°	640.6	643.9	636.4	675.4	718.3	764.5	806.8	841.1	866.9	869.3	868.7
50°	595.3	598.0	589.9	630.7	673.3	722.5	766.6	806.2	835.1	837.5	837.2
52.5°	550.3	553.0	546.1	589.0	627.7	679.6	727.6	770.5	799.0	802.6	803.2
55°	506.8	508.0	502.6	543.7	581.2	635.5	690.7	732.4	760.9	763.9	765.7
57.5°	463.3	463.6	459.1	498.4	534.4	589.9	647.8	691.6	718.6	721.6	724.3
60°	420.1	419.8	414.7	452.8	487.3	542.2	602.5	646.0	672.1	674.8	678.4
62.5°	377.2	376.3	371.8	406.9	439.3	493.6	554.2	596.2	621.1	622.9	627.7
65°	334.6	333.7	329.5	361.9	391.3	443.2	502.6	542.5	565.0	567.4	566.5
67.5°	292.6	290.8	287.5	316.6	343.3	391.3	448.3	486.4	505.0	507.1	512.8
70°	250.5	248.4	240.9	271.9	295.3	338.2	391.3	425.2	440.8	442.9	442.0
72.5°	209.1	207.0	198.9	227.4	247.2	284.8	332.2	360.4	373.9	375.7	375.7
75°	168.9	167.7	162.6	184.2	200.7	231.3	271.6	295.0	305.5	307.6	307.0
77.5°	130.2	129.3	124.2	142.8	155.7	178.5	210.9	229.2	237.0	239.4	244.5
80°	93.3	93.0	84.9	103.2	108.9	128.1	151.8	165.9	170.1	173.4	177.0
82.5°	59.7	60.0	51.9	67.5	69.9	82.2	96.9	105.6	108.6	111.3	114.0
85°	29.1	30.3	25.8	35.7	36.0	42.3	48.6	51.9	53.1	55.2	57.6
87.5°	7.5	8.7	4.8	10.2	9.0	11.7	13.5	14.4	14.1	15.6	16.5
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°	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3
2.5°	1259.0	1268.6	1263.8	1279.4	1285.4	1275.8	1292.6	1292.9	1280.9	1295.0	1302.8
5°	1239.5	1249.4	1246.4	1262.6	1270.1	1261.7	1282.1	1286.0	1274.3	1290.2	1302.8
7.5°	1219.7	1231.4	1227.5	1244.0	1253.0	1246.4	1268.3	1274.6	1265.6	1283.0	1299.8
10°	1202.6	1212.5	1208.3	1225.7	1233.5	1228.1	1249.7	1261.4	1253.0	1274.3	1294.4
12.5°	1185.8	1193.9	1189.1	1203.5	1211.0	1204.1	1230.5	1241.3	1235.3	1257.5	1283.3
15°	1164.2	1173.2	1166.6	1179.5	1185.2	1179.2	1200.8	1219.4	1211.9	1236.2	1264.7
17.5°	1147.7	1152.8	1143.8	1154.0	1157.3	1149.2	1171.1	1189.4	1184.0	1210.4	1243.4
20°	1129.4	1133.6	1121.0	1126.7	1126.4	1116.2	1136.3	1154.3	1150.7	1179.8	1217.3
22.5°	1109.0	1111.1	1096.4	1097.6	1097.0	1080.2	1098.2	1116.5	1115.0	1144.4	1186.4
25°	1087.4	1087.7	1068.8	1068.2	1061.6	1041.8	1057.7	1078.4	1073.9	1105.7	1149.8
27.5°	1066.1	1063.1	1040.3	1034.9	1024.4	1000.7	1014.8	1033.4	1030.7	1061.9	1110.8
30°	1043.3	1039.4	1011.5	1001.6	986.3	959.0	970.7	988.1	989.6	1016.9	1068.2
32.5°	1021.7	1011.8	980.9	966.5	947.3	915.5	921.8	939.5	941.9	969.5	1022.3
35°	993.8	987.2	949.1	924.5	905.6	870.8	877.4	889.7	893.3	920.3	974.0
37.5°	967.4	956.9	916.4	886.4	862.1	825.5	827.3	839.9	843.5	870.8	923.9
40°	940.1	925.1	881.6	846.5	818.6	780.1	778.0	791.2	793.9	820.7	868.7
42.5°	911.0	893.0	844.1	805.6	773.5	734.5	730.3	741.7	744.7	770.8	818.0
45°	881.6	860.0	805.6	763.6	728.5	688.6	684.4	693.1	697.6	722.2	767.5
47.5°	850.4	825.2	766.0	719.2	682.9	643.0	637.9	646.6	650.2	674.5	717.4
50°	817.7	787.0	725.2	673.6	637.6	598.3	590.8	601.0	604.3	627.1	669.1
52.5°	781.6	747.7	681.7	627.7	591.7	554.2	545.2	555.1	559.0	581.2	619.9
55°	743.5	706.9	637.9	585.4	546.4	509.8	502.3	506.2	514.6	535.6	571.6
57.5°	700.6	664.3	591.7	538.3	500.8	465.7	459.4	463.0	470.8	491.2	523.6
60°	655.0	616.6	544.6	491.2	454.9	421.6	415.9	419.2	427.6	446.2	476.2
62.5°	610.0	566.8	496.0	442.9	409.9	379.0	377.5	376.3	384.1	402.1	428.5
65°	555.4	514.0	445.3	394.9	364.9	337.0	331.0	333.7	341.2	357.7	385.3
67.5°	496.9	459.4	393.4	346.9	320.2	295.3	290.2	291.4	299.2	313.6	337.6
70°	434.8	401.8	340.3	298.6	276.1	252.6	249.3	249.6	257.1	269.7	290.8
72.5°	369.7	340.0	286.6	250.8	232.2	215.4	212.4	208.8	215.7	226.5	244.5
75°	303.4	277.3	233.1	204.0	189.3	175.2	172.5	168.9	175.8	185.1	199.2
77.5°	236.4	215.4	181.2	158.7	147.3	136.8	134.4	130.5	137.4	144.3	155.4
80°	171.0	155.7	135.3	111.6	107.7	100.8	98.4	94.2	100.8	105.3	113.7
82.5°	110.4	100.2	88.5	72.0	71.4	66.3	65.1	60.3	66.3	69.0	75.3
85°	55.8	51.0	48.0	36.6	37.8	34.5	34.2	29.1	33.9	35.1	38.7
87.5°	15.9	16.8	15.0	9.0	11.4	10.8	10.8	7.8	10.8	10.8	12.3
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: P837899

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3	1286.3
2.5°	1287.5	1292.6	1293.8	1293.5	1296.8	1314.8	1308.8	1314.8
5°	1290.5	1301.9	1304.9	1309.1	1314.5	1334.9	1328.3	1335.5
7.5°	1292.3	1309.4	1316.0	1324.1	1332.8	1355.7	1350.2	1357.5
10°	1292.3	1314.5	1324.1	1337.6	1349.3	1375.8	1370.7	1379.1
12.5°	1286.9	1315.4	1328.9	1347.8	1362.9	1391.4	1389.3	1395.3
15°	1275.8	1310.9	1329.5	1353.9	1372.5	1404.3	1403.4	1410.6
17.5°	1260.8	1303.1	1325.6	1356.3	1379.7	1415.4	1417.5	1421.4
20°	1241.9	1288.4	1317.8	1355.4	1384.8	1424.1	1426.8	1432.2
22.5°	1217.0	1270.7	1306.1	1351.4	1385.4	1427.7	1432.5	1437.6
25°	1187.6	1249.4	1290.8	1343.9	1382.4	1427.4	1434.0	1438.5
27.5°	1154.0	1221.8	1271.3	1331.9	1374.0	1422.6	1430.7	1436.1
30°	1115.0	1192.4	1249.1	1316.3	1362.6	1413.6	1422.3	1427.7
32.5°	1074.8	1160.0	1222.7	1296.2	1346.0	1399.2	1406.7	1410.9
35°	1031.0	1120.7	1190.9	1270.4	1324.7	1376.1	1381.8	1386.3
37.5°	983.3	1078.1	1154.6	1241.3	1294.7	1343.9	1349.0	1354.2
40°	934.1	1033.4	1113.8	1205.6	1259.0	1304.6	1310.0	1313.6
42.5°	884.6	983.9	1070.3	1163.6	1216.7	1260.5	1263.8	1267.4
45°	834.5	932.6	1021.4	1117.1	1169.6	1210.7	1211.9	1214.9
47.5°	783.4	879.5	967.7	1064.0	1115.9	1153.4	1154.6	1157.0
50°	732.1	826.4	910.4	1006.7	1057.4	1097.0	1091.6	1094.0
52.5°	681.7	770.5	856.4	944.9	995.0	1030.1	1031.6	1026.8
55°	632.2	715.9	794.8	880.1	927.8	955.1	954.2	956.0
57.5°	582.1	660.7	733.0	811.0	857.6	883.4	888.8	882.5
60°	531.1	604.9	669.7	740.2	785.2	806.8	813.2	807.1
62.5°	480.4	548.2	607.0	668.5	710.2	736.9	736.3	729.7
65°	429.7	491.2	543.7	595.9	632.2	658.9	657.7	651.7
67.5°	382.9	433.6	480.7	523.0	554.5	572.8	579.1	571.9
70°	331.3	375.1	416.5	450.4	476.5	493.0	499.0	492.7
72.5°	279.7	316.9	346.0	378.7	398.8	412.6	418.9	412.9
75°	228.6	259.2	283.0	308.5	322.6	334.3	341.5	335.5
77.5°	179.1	202.8	221.7	240.3	256.5	259.2	265.5	261.6
80°	132.0	149.1	162.9	175.2	186.9	188.1	193.2	190.8
82.5°	87.9	99.3	102.9	115.8	123.3	122.1	127.2	125.4
85°	46.5	53.4	59.7	63.6	67.8	63.9	68.4	66.6
87.5°	15.6	16.5	14.4	20.4	22.5	19.2	21.9	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)