

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: P837796

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1HI-35-120-EDD-90**

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: P837796
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-LD4-1HI-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

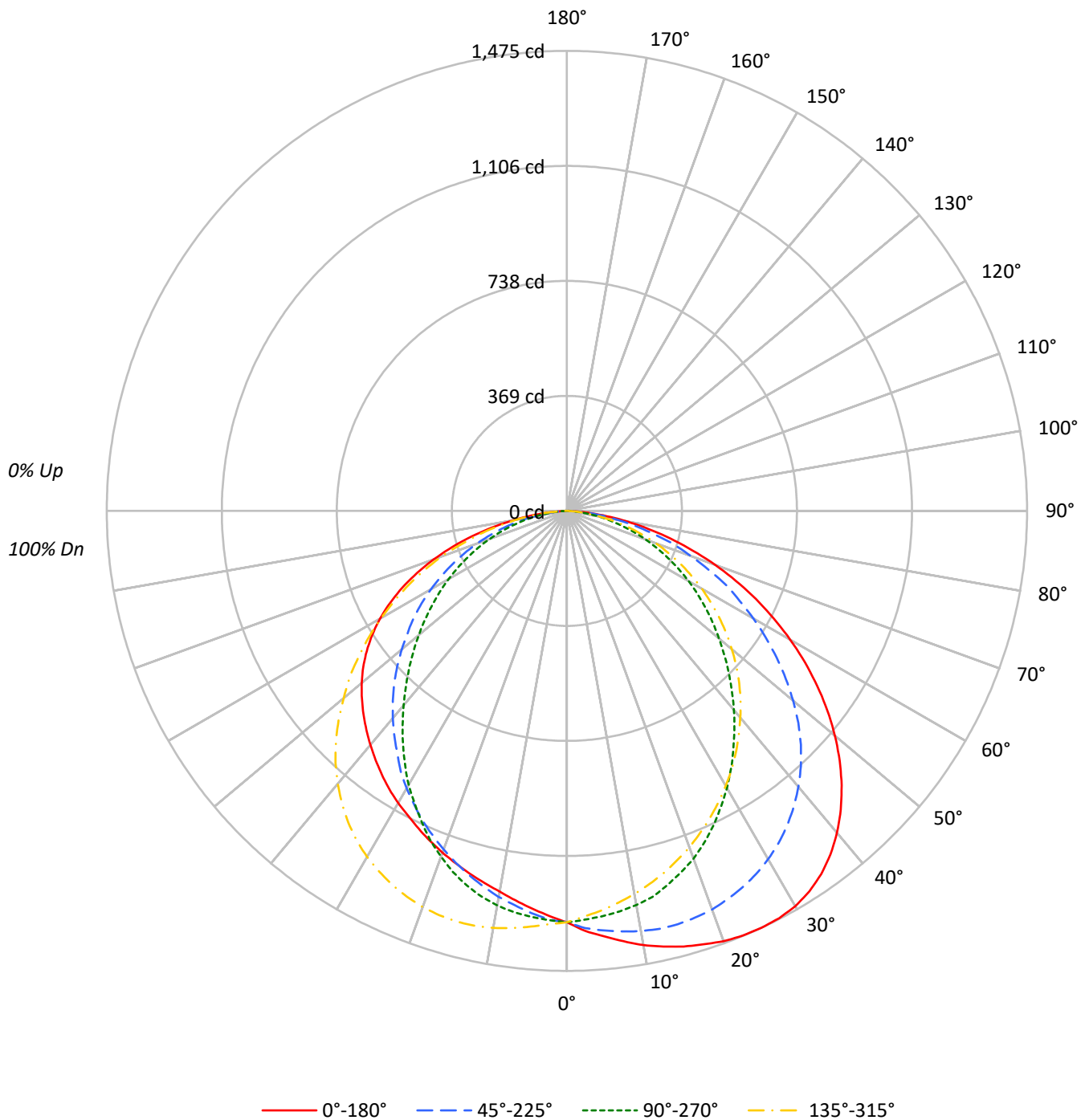
Lumens per Lamp: N/A
Luminaire Lumens: 3869.4 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3549	3549	3549	3549
5°	3699	3524	3457	3529
10°	3863	3506	3387	3510
15°	4029	3461	3354	3462
20°	4205	3398	3339	3379
25°	4379	3303	3339	3269
30°	4548	3188	3361	3153
35°	4669	3057	3395	3009
40°	4731	2925	3442	2859
45°	4741	2792	3509	2722
50°	4696	2665	3594	2594
55°	4599	2546	3675	2475
60°	4454	2422	3724	2359
65°	4255	2280	3705	2227
70°	3975	2113	3573	2075
75°	3576	1884	3278	1875
80°	3033	1578	2755	1602
85°	2109	1044	1748	1074

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.2
10°-20°	362.6	9.4
20°-30°	555.7	14.4
30°-40°	675.7	17.5
40°-50°	702.4	18.2
50°-60°	634.5	16.4
60°-70°	482.4	12.5
70°-80°	268.9	7.0
80°-90°	61.9	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°	1043.5	27.0
0°-40°	1719.2	44.4
0°-60°	3056.2	79.0
0°-90°	3869.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3869.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1319	1319	1319	1319	1319	
5°	1369	1304	1280	1307	1369	132
15°	1446	1242	1204	1243	1446	410
25°	1475	1112	1124	1101	1475	681
35°	1421	931	1033	916	1421	888
45°	1246	734	922	715	1246	959
55°	980	543	783	528	980	875
65°	668	358	582	350	668	660
75°	344	181	315	180	344	365
85°	68	34	57	35	68	86
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°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1348.1	1328.4	1328.7	1345.9	1332.7	1339.2	1320.7	1327.8	1325.6	1327.2	1312.1
5°	1369.3	1348.1	1347.8	1362.6	1347.8	1350.6	1327.2	1331.8	1325.0	1320.7	1304.4
7.5°	1391.8	1370.6	1368.4	1381.3	1361.9	1359.8	1333.9	1333.9	1321.6	1310.9	1295.5
10°	1413.9	1392.1	1389.3	1399.2	1375.2	1368.1	1336.7	1331.8	1315.5	1299.5	1282.9
12.5°	1430.5	1408.4	1406.2	1412.4	1385.3	1372.4	1336.7	1327.2	1303.2	1280.7	1267.8
15°	1446.2	1423.5	1417.6	1420.7	1389.6	1372.4	1332.4	1317.6	1286.9	1257.3	1242.3
17.5°	1457.3	1435.5	1429.6	1429.3	1391.8	1367.2	1323.2	1302.9	1266.0	1230.3	1215.2
20°	1468.4	1446.5	1439.2	1433.6	1391.2	1360.1	1309.6	1282.3	1239.2	1199.2	1186.6
22.5°	1473.9	1451.5	1443.5	1435.2	1387.2	1347.2	1293.0	1258.3	1209.0	1161.4	1150.9
25°	1474.8	1451.8	1443.2	1431.2	1379.2	1331.8	1271.5	1229.3	1174.3	1121.4	1112.4
27.5°	1472.4	1447.2	1438.5	1424.1	1367.2	1313.0	1246.0	1196.4	1137.4	1078.9	1069.4
30°	1463.8	1438.2	1429.9	1411.2	1350.2	1290.0	1218.0	1159.8	1096.4	1034.3	1026.0
32.5°	1446.5	1421.6	1414.9	1396.1	1331.8	1263.2	1185.4	1120.4	1051.2	991.8	979.5
35°	1421.3	1396.4	1392.1	1372.4	1305.9	1231.2	1149.7	1077.4	1003.2	942.6	930.6
37.5°	1388.4	1367.5	1361.0	1341.6	1275.5	1194.9	1108.7	1030.6	954.3	889.1	881.7
40°	1346.9	1327.2	1322.3	1305.0	1240.1	1154.6	1064.4	982.3	903.9	843.3	832.8
42.5°	1299.5	1281.0	1278.3	1260.4	1196.4	1110.0	1016.5	932.2	851.3	792.8	782.3
45°	1245.7	1227.8	1227.2	1210.3	1148.7	1060.4	966.0	881.4	799.9	739.3	733.7
47.5°	1186.3	1170.3	1170.3	1154.6	1095.5	1006.0	914.0	828.5	748.2	694.7	684.8
50°	1121.7	1106.6	1102.0	1094.3	1036.8	946.6	859.2	776.8	697.1	646.1	636.5
52.5°	1052.8	1039.8	1042.9	1028.8	973.1	884.8	803.9	718.7	645.7	599.3	589.8
55°	980.2	961.7	964.5	959.2	906.6	821.1	741.7	670.7	595.3	551.6	542.7
57.5°	904.8	880.8	890.6	887.6	835.9	755.9	684.8	616.2	545.1	504.8	496.2
60°	827.6	804.5	814.6	811.9	763.3	690.7	626.1	562.4	495.3	458.7	450.1
62.5°	748.2	727.0	736.2	734.0	689.4	623.9	567.6	509.2	445.2	412.2	404.2
65°	668.2	647.9	656.2	654.7	613.4	563.6	507.6	454.1	394.7	366.1	358.1
67.5°	586.4	567.6	575.3	575.3	537.5	489.8	447.3	398.4	345.2	320.6	313.2
70°	505.2	487.6	494.4	493.8	461.8	423.0	386.4	342.7	295.0	274.7	268.6
72.5°	423.3	407.9	414.1	413.5	386.7	361.8	325.5	287.6	246.1	229.8	224.3
75°	343.9	329.5	335.3	334.7	312.9	289.5	265.2	233.8	198.1	186.7	181.2
77.5°	268.3	253.5	258.4	258.4	242.4	225.5	206.1	181.8	156.6	144.3	140.3
80°	195.7	188.6	186.1	186.4	175.7	164.6	154.7	131.4	112.9	104.6	101.8
82.5°	128.6	122.7	120.3	120.9	114.8	108.0	101.8	85.5	73.2	68.3	66.8
85°	68.3	64.0	61.8	63.4	62.1	58.5	55.4	44.3	36.6	34.8	33.8
87.5°	21.5	18.8	17.2	22.8	19.4	17.2	16.6	13.2	10.2	10.2	9.8
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°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1317.0	1317.0	1305.0	1302.3	1301.0	1302.6	1290.6	1288.4	1305.6	1299.8	1286.6
5°	1306.6	1305.9	1289.0	1286.0	1286.0	1284.1	1270.6	1267.5	1284.7	1279.8	1265.3
7.5°	1293.6	1291.8	1271.8	1269.6	1266.6	1265.3	1250.3	1248.1	1262.9	1259.8	1246.3
10°	1278.0	1276.1	1252.4	1250.9	1247.5	1245.0	1230.9	1229.3	1244.4	1239.5	1228.7
12.5°	1257.3	1254.0	1229.7	1228.1	1225.3	1224.4	1210.6	1210.0	1226.6	1221.7	1210.3
15°	1230.3	1227.5	1200.4	1201.0	1201.3	1201.3	1190.3	1189.7	1206.0	1203.8	1191.5
17.5°	1200.4	1196.7	1170.9	1172.7	1174.9	1177.4	1168.7	1170.3	1187.5	1184.7	1173.7
20°	1166.6	1162.9	1137.7	1142.9	1147.5	1152.4	1146.9	1151.2	1167.2	1166.0	1157.7
22.5°	1128.7	1125.1	1101.7	1109.7	1117.4	1126.6	1124.1	1129.1	1146.0	1145.7	1138.3
25°	1082.6	1083.5	1062.9	1072.8	1085.7	1098.6	1099.5	1107.5	1126.3	1124.4	1117.7
27.5°	1039.5	1040.8	1018.9	1035.5	1052.8	1069.4	1073.4	1084.4	1103.5	1102.0	1096.1
30°	994.3	995.8	974.6	997.4	1018.3	1038.6	1047.2	1062.3	1081.7	1081.7	1075.5
32.5°	947.2	950.0	927.9	958.3	982.6	1006.3	1021.4	1037.1	1059.2	1058.6	1053.4
35°	898.9	902.0	881.7	920.5	944.8	973.7	992.5	1013.4	1033.1	1033.4	1029.4
37.5°	849.7	853.4	834.9	877.4	905.1	939.2	963.2	984.2	1006.0	1007.2	1003.5
40°	800.8	804.8	788.8	829.7	864.8	902.9	930.6	955.2	979.2	979.8	977.4
42.5°	751.9	756.2	744.2	784.2	823.9	864.8	897.4	925.4	950.0	951.5	948.8
45°	704.2	707.9	699.3	743.0	781.1	825.7	863.2	894.9	919.9	922.0	921.1
47.5°	656.8	660.2	652.5	692.5	736.5	783.9	827.3	862.3	888.8	891.2	890.6
50°	610.4	613.1	604.8	646.7	690.4	740.8	786.0	826.6	856.2	858.6	858.3
52.5°	564.2	567.0	559.9	603.9	643.6	696.8	746.0	790.0	819.3	822.9	823.6
55°	519.6	520.8	515.3	557.5	595.9	651.6	708.2	751.0	780.2	783.3	785.1
57.5°	475.0	475.3	470.7	511.0	547.9	604.8	664.2	709.1	736.8	739.9	742.7
60°	430.7	430.4	425.2	464.2	499.6	555.9	617.7	662.4	689.1	691.9	695.6
62.5°	386.7	385.8	381.2	417.2	450.4	506.1	568.2	611.3	636.8	638.7	643.6
65°	343.0	342.1	337.8	371.0	401.2	454.4	515.3	556.2	579.3	581.8	580.8
67.5°	300.0	298.1	294.7	324.6	351.9	401.2	459.6	498.7	517.8	519.9	525.8
70°	256.9	254.7	247.0	278.7	302.7	346.7	401.2	435.9	451.9	454.1	453.2
72.5°	214.4	212.3	204.0	233.2	253.5	292.0	340.6	369.5	383.3	385.2	385.2
75°	173.2	172.0	166.7	188.9	205.8	237.2	278.4	302.4	313.2	315.3	314.7
77.5°	133.5	132.6	127.4	146.4	159.7	183.0	216.3	235.0	243.0	245.5	250.7
80°	95.7	95.4	87.1	105.8	111.7	131.4	155.7	170.1	174.4	177.8	181.5
82.5°	61.2	61.5	53.2	69.2	71.7	84.3	99.4	108.3	111.4	114.1	116.9
85°	29.8	31.1	26.5	36.6	36.9	43.4	49.8	53.2	54.5	56.6	59.1
87.5°	7.7	8.9	4.9	10.5	9.2	12.0	13.8	14.8	14.5	16.0	16.9
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°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1290.9	1300.7	1295.8	1311.8	1317.9	1308.1	1325.3	1325.6	1313.3	1327.8	1335.8
5°	1270.9	1281.0	1278.0	1294.6	1302.3	1293.6	1314.6	1318.6	1306.6	1322.9	1335.8
7.5°	1250.6	1262.6	1258.6	1275.5	1284.7	1278.0	1300.4	1306.9	1297.6	1315.5	1332.7
10°	1233.0	1243.2	1238.9	1256.7	1264.7	1259.2	1281.3	1293.3	1284.7	1306.6	1327.2
12.5°	1215.8	1224.1	1219.2	1234.0	1241.7	1234.6	1261.6	1272.7	1266.6	1289.3	1315.8
15°	1193.7	1202.9	1196.1	1209.3	1215.2	1209.0	1231.2	1250.3	1242.6	1267.5	1296.7
17.5°	1176.7	1182.0	1172.7	1183.2	1186.6	1178.3	1200.7	1219.5	1214.0	1241.0	1274.9
20°	1158.0	1162.3	1149.4	1155.2	1154.9	1144.4	1165.0	1183.5	1179.8	1209.7	1248.1
22.5°	1137.1	1139.2	1124.1	1125.4	1124.7	1107.5	1126.0	1144.7	1143.2	1173.4	1216.4
25°	1114.9	1115.2	1095.8	1095.2	1088.4	1068.1	1084.4	1105.7	1101.1	1133.7	1178.9
27.5°	1093.1	1090.0	1066.6	1061.1	1050.3	1026.0	1040.5	1059.5	1056.8	1088.8	1138.9
30°	1069.7	1065.7	1037.1	1026.9	1011.2	983.2	995.2	1013.1	1014.6	1042.6	1095.2
32.5°	1047.5	1037.4	1005.7	990.9	971.2	938.6	945.1	963.2	965.7	994.0	1048.1
35°	1018.9	1012.1	973.1	947.9	928.5	892.8	899.6	912.2	915.9	943.5	998.6
37.5°	991.8	981.1	939.5	908.8	883.9	846.3	848.2	861.1	864.8	892.8	947.2
40°	963.8	948.5	903.9	867.9	839.3	799.9	797.7	811.3	814.0	841.4	890.6
42.5°	934.0	915.5	865.4	826.0	793.1	753.1	748.8	760.5	763.6	790.3	838.6
45°	903.9	881.7	826.0	783.0	747.0	706.0	701.7	710.7	715.3	740.5	787.0
47.5°	871.9	846.0	785.4	737.4	700.2	659.3	654.1	663.0	666.7	691.6	735.6
50°	838.3	807.0	743.6	690.7	653.7	613.4	605.8	616.2	619.6	643.0	686.0
52.5°	801.4	766.6	699.0	643.6	606.7	568.2	559.0	569.1	573.1	595.9	635.6
55°	762.3	724.8	654.1	600.2	560.2	522.7	515.0	519.0	527.6	549.1	586.1
57.5°	718.3	681.1	606.7	551.9	513.5	477.5	471.0	474.7	482.7	503.6	536.8
60°	671.6	632.2	558.4	503.6	466.4	432.2	426.4	429.8	438.4	457.5	488.2
62.5°	625.4	581.1	508.5	454.1	420.2	388.6	387.0	385.8	393.8	412.2	439.3
65°	569.4	527.0	456.5	404.9	374.1	345.5	339.3	342.1	349.8	366.7	395.0
67.5°	509.5	471.0	403.3	355.6	328.3	302.7	297.5	298.7	306.7	321.5	346.1
70°	445.8	411.9	348.9	306.1	283.0	259.0	255.7	256.0	263.7	276.6	298.1
72.5°	379.0	348.6	293.8	257.2	238.1	220.9	217.8	214.1	221.2	232.3	250.7
75°	311.0	284.3	239.0	209.2	194.1	179.7	176.9	173.2	180.3	189.8	204.3
77.5°	242.4	220.9	185.8	162.7	151.1	140.3	137.8	133.8	140.9	148.0	159.4
80°	175.4	159.7	138.7	114.4	110.4	103.4	100.9	96.6	103.4	108.0	116.6
82.5°	113.2	102.8	90.8	73.8	73.2	68.0	66.8	61.8	68.0	70.8	77.2
85°	57.2	52.3	49.2	37.5	38.8	35.4	35.1	29.8	34.8	36.0	39.7
87.5°	16.3	17.2	15.4	9.2	11.7	11.1	11.1	8.0	11.1	11.1	12.6
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: P837796

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1320.1	1325.3	1326.6	1326.3	1329.6	1348.1	1341.9	1348.1
5°	1323.2	1334.9	1337.9	1342.3	1347.8	1368.7	1361.9	1369.3
7.5°	1325.0	1342.6	1349.3	1357.6	1366.6	1389.9	1384.4	1391.8
10°	1325.0	1347.8	1357.6	1371.5	1383.5	1410.5	1405.3	1413.9
12.5°	1319.5	1348.7	1362.6	1381.9	1397.3	1426.5	1424.4	1430.5
15°	1308.1	1344.1	1363.2	1388.1	1407.2	1439.8	1438.9	1446.2
17.5°	1292.7	1336.1	1359.2	1390.6	1414.5	1451.2	1453.3	1457.3
20°	1273.3	1321.0	1351.2	1389.6	1419.8	1460.1	1462.8	1468.4
22.5°	1247.8	1302.9	1339.2	1385.6	1420.4	1463.8	1468.7	1473.9
25°	1217.7	1281.0	1323.5	1377.9	1417.3	1463.5	1470.2	1474.8
27.5°	1183.2	1252.7	1303.5	1365.6	1408.7	1458.5	1466.8	1472.4
30°	1143.2	1222.6	1280.7	1349.6	1397.0	1449.3	1458.2	1463.8
32.5°	1102.0	1189.4	1253.6	1329.0	1380.1	1434.5	1442.2	1446.5
35°	1057.1	1149.1	1221.0	1302.6	1358.2	1410.9	1416.7	1421.3
37.5°	1008.1	1105.4	1183.8	1272.7	1327.5	1377.9	1383.2	1388.4
40°	957.7	1059.5	1142.0	1236.1	1290.9	1337.6	1343.2	1346.9
42.5°	906.9	1008.8	1097.4	1193.0	1247.5	1292.4	1295.8	1299.5
45°	855.6	956.2	1047.2	1145.4	1199.2	1241.3	1242.6	1245.7
47.5°	803.3	901.7	992.2	1090.9	1144.1	1182.6	1183.8	1186.3
50°	750.7	847.3	933.4	1032.1	1084.1	1124.7	1119.2	1121.7
52.5°	699.0	790.0	878.0	968.8	1020.1	1056.1	1057.7	1052.8
55°	648.2	734.0	814.9	902.3	951.2	979.2	978.3	980.2
57.5°	596.8	677.4	751.6	831.6	879.2	905.7	911.2	904.8
60°	544.5	620.2	686.7	759.0	805.1	827.3	833.7	827.6
62.5°	492.5	562.1	622.4	685.4	728.2	755.6	755.0	748.2
65°	440.5	503.6	557.5	611.0	648.2	675.6	674.4	668.2
67.5°	392.6	444.5	492.8	536.2	568.5	587.3	593.8	586.4
70°	339.6	384.6	427.0	461.8	488.5	505.5	511.6	505.2
72.5°	286.7	324.9	354.7	388.2	408.9	423.0	429.5	423.3
75°	234.4	265.8	290.1	316.3	330.7	342.7	350.1	343.9
77.5°	183.7	208.0	227.3	246.4	263.0	265.8	272.3	268.3
80°	135.4	152.9	167.1	179.7	191.7	192.9	198.1	195.7
82.5°	90.1	101.8	105.5	118.8	126.4	125.2	130.4	128.6
85°	47.7	54.8	61.2	65.2	69.5	65.5	70.1	68.3
87.5°	16.0	16.9	14.8	20.9	23.1	19.7	22.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)