

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: P837814

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1HI-50-120-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: P837814
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-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

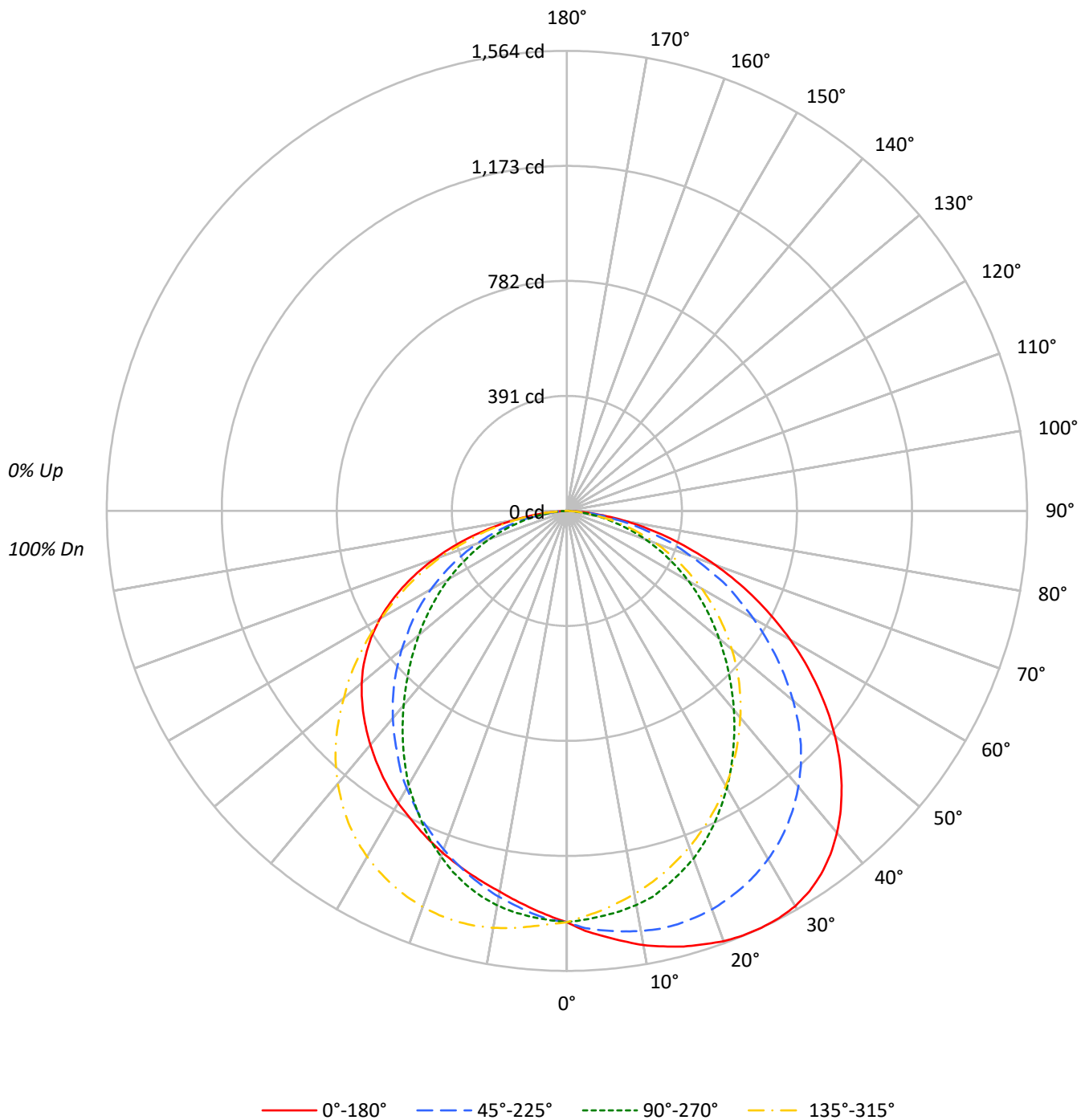
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4102.5 lumens
Efficiency: N/A
Efficacy: 93.2 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°	3763	3763	3763	3763
5°	3922	3736	3665	3742
10°	4096	3717	3591	3722
15°	4272	3669	3556	3670
20°	4458	3603	3540	3582
25°	4643	3502	3540	3466
30°	4822	3380	3563	3342
35°	4950	3241	3599	3190
40°	5016	3102	3649	3032
45°	5026	2960	3720	2886
50°	4978	2825	3811	2750
55°	4875	2700	3896	2624
60°	4722	2568	3948	2502
65°	4511	2418	3927	2362
70°	4214	2241	3788	2199
75°	3792	1997	3476	1987
80°	3214	1674	2921	1698
85°	2235	1108	1853	1139

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.2
10°-20°	384.4	9.4
20°-30°	589.2	14.4
30°-40°	716.4	17.5
40°-50°	744.7	18.2
50°-60°	672.7	16.4
60°-70°	511.4	12.5
70°-80°	285.1	7.0
80°-90°	65.6	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°	1106.4	27.0
0°-40°	1822.8	44.4
0°-60°	3240.3	79.0
0°-90°	4102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1452	1383	1357	1385	1452	140
15°	1533	1317	1276	1317	1533	435
25°	1564	1180	1192	1167	1564	722
35°	1507	987	1096	971	1507	941
45°	1321	778	978	758	1321	1017
55°	1039	575	830	559	1039	928
65°	708	380	617	371	708	700
75°	365	192	334	191	365	387
85°	72	36	60	37	72	91
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°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1429.3	1408.4	1408.8	1427.0	1413.0	1419.8	1400.3	1407.8	1405.5	1407.1	1391.1
5°	1451.8	1429.3	1429.0	1444.6	1429.0	1431.9	1407.1	1412.0	1404.8	1400.3	1383.0
7.5°	1475.6	1453.1	1450.8	1464.5	1444.0	1441.7	1414.3	1414.3	1401.3	1389.8	1373.5
10°	1499.1	1476.0	1473.0	1483.5	1458.0	1450.5	1417.2	1412.0	1394.7	1377.8	1360.2
12.5°	1516.7	1493.2	1491.0	1497.5	1468.8	1455.1	1417.2	1407.1	1381.7	1357.9	1344.2
15°	1533.4	1509.2	1503.0	1506.3	1473.3	1455.1	1412.7	1397.0	1364.4	1333.1	1317.1
17.5°	1545.1	1521.9	1515.7	1515.4	1475.6	1449.5	1402.9	1381.4	1342.2	1304.4	1288.4
20°	1556.8	1533.7	1525.9	1520.0	1475.0	1442.0	1388.5	1359.5	1313.8	1271.4	1258.1
22.5°	1562.7	1538.9	1530.4	1521.6	1470.7	1428.3	1370.9	1334.1	1281.9	1231.3	1220.2
25°	1563.7	1539.2	1530.1	1517.4	1462.3	1412.0	1348.1	1303.4	1245.0	1188.9	1179.5
27.5°	1561.1	1534.3	1525.2	1509.9	1449.5	1392.1	1321.0	1268.5	1205.9	1143.9	1133.8
30°	1551.9	1524.9	1516.1	1496.2	1431.6	1367.7	1291.3	1229.7	1162.5	1096.6	1087.8
32.5°	1533.7	1507.3	1500.1	1480.2	1412.0	1339.3	1256.8	1187.9	1114.5	1051.6	1038.5
35°	1506.9	1480.5	1476.0	1455.1	1384.6	1305.4	1218.9	1142.3	1063.7	999.4	986.7
37.5°	1472.0	1449.9	1443.0	1422.5	1352.3	1266.9	1175.5	1092.7	1011.8	942.7	934.8
40°	1428.0	1407.1	1401.9	1383.6	1314.8	1224.1	1128.6	1041.5	958.3	894.1	883.0
42.5°	1377.8	1358.2	1355.3	1336.3	1268.5	1176.8	1077.7	988.3	902.5	840.6	829.5
45°	1320.7	1301.8	1301.1	1283.2	1217.9	1124.3	1024.2	934.5	848.1	783.8	777.9
47.5°	1257.7	1240.8	1240.8	1224.1	1161.5	1066.6	969.1	878.4	793.3	736.5	726.1
50°	1189.2	1173.3	1168.4	1160.2	1099.2	1003.6	911.0	823.6	739.1	685.0	674.9
52.5°	1116.2	1102.5	1105.7	1090.7	1031.7	938.1	852.3	761.9	684.6	635.4	625.3
55°	1039.2	1019.6	1022.6	1017.0	961.2	870.6	786.4	711.1	631.2	584.8	575.4
57.5°	959.3	933.8	944.3	941.0	886.2	801.4	726.1	653.3	578.0	535.3	526.1
60°	877.4	853.0	863.7	860.8	809.2	732.3	663.8	596.3	525.1	486.3	477.2
62.5°	793.3	770.8	780.5	778.3	731.0	661.5	601.8	539.8	472.0	437.1	428.6
65°	708.5	686.9	695.7	694.1	650.4	597.6	538.2	481.4	418.5	388.2	379.7
67.5°	621.7	601.8	610.0	610.0	569.8	519.3	474.3	422.4	366.0	339.9	332.0
70°	535.6	517.0	524.2	523.5	489.6	448.5	409.7	363.4	312.8	291.3	284.8
72.5°	448.8	432.5	439.0	438.4	410.0	383.6	345.1	305.0	260.9	243.7	237.8
75°	364.7	349.3	355.5	354.9	331.7	306.9	281.2	247.9	210.1	198.0	192.1
77.5°	284.4	268.8	274.0	274.0	257.0	239.1	218.5	192.8	166.0	153.0	148.7
80°	207.4	199.9	197.3	197.7	186.2	174.5	164.1	139.3	119.7	110.9	108.0
82.5°	136.3	130.1	127.5	128.2	121.7	114.5	108.0	90.7	77.6	72.4	70.8
85°	72.4	67.8	65.6	67.2	65.9	62.0	58.7	47.0	38.8	36.9	35.9
87.5°	22.8	19.9	18.3	24.1	20.5	18.3	17.6	14.0	10.8	10.8	10.4
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°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1396.4	1396.4	1383.6	1380.7	1379.4	1381.0	1368.3	1366.0	1384.3	1378.1	1364.1
5°	1385.3	1384.6	1366.7	1363.4	1363.4	1361.5	1347.1	1343.8	1362.1	1356.9	1341.6
7.5°	1371.6	1369.6	1348.4	1346.1	1342.9	1341.6	1325.6	1323.3	1339.0	1335.7	1321.3
10°	1354.9	1353.0	1327.9	1326.2	1322.6	1320.0	1305.0	1303.4	1319.4	1314.2	1302.8
12.5°	1333.1	1329.5	1303.7	1302.1	1299.2	1298.2	1283.5	1282.9	1300.5	1295.2	1283.2
15°	1304.4	1301.4	1272.7	1273.4	1273.7	1273.7	1262.0	1261.3	1278.6	1276.3	1263.3
17.5°	1272.7	1268.8	1241.4	1243.4	1245.7	1248.3	1239.1	1240.8	1259.0	1256.1	1244.4
20°	1236.9	1232.9	1206.2	1211.7	1216.6	1221.9	1216.0	1220.6	1237.5	1236.2	1227.4
22.5°	1196.7	1192.8	1168.0	1176.5	1184.7	1194.5	1191.9	1197.1	1215.0	1214.7	1206.9
25°	1147.8	1148.8	1126.9	1137.4	1151.1	1164.8	1165.8	1174.2	1194.1	1192.2	1185.0
27.5°	1102.2	1103.5	1080.3	1097.9	1116.2	1133.8	1138.0	1149.8	1170.0	1168.4	1162.2
30°	1054.2	1055.8	1033.3	1057.5	1079.6	1101.2	1110.3	1126.3	1146.8	1146.8	1140.3
32.5°	1004.3	1007.2	983.7	1016.0	1041.8	1066.9	1082.9	1099.5	1123.0	1122.4	1116.8
35°	953.1	956.4	934.8	975.9	1001.7	1032.3	1052.2	1074.4	1095.3	1095.6	1091.4
37.5°	900.9	904.8	885.2	930.3	959.6	995.8	1021.3	1043.4	1066.6	1067.9	1064.0
40°	849.0	853.3	836.3	879.7	916.9	957.3	986.7	1012.8	1038.2	1038.9	1036.3
42.5°	797.2	801.7	789.0	831.4	873.5	916.9	951.5	981.1	1007.2	1008.9	1005.9
45°	746.6	750.5	741.4	787.7	828.2	875.5	915.3	948.8	975.3	977.6	976.6
47.5°	696.4	700.0	691.8	734.2	780.9	831.1	877.1	914.3	942.3	944.9	944.3
50°	647.1	650.1	641.3	685.6	731.9	785.4	833.4	876.4	907.8	910.4	910.0
52.5°	598.2	601.1	593.6	640.3	682.4	738.8	791.0	837.6	868.6	872.5	873.2
55°	550.9	552.2	546.3	591.0	631.8	690.8	750.9	796.2	827.2	830.4	832.4
57.5°	503.6	503.9	499.1	541.8	580.9	641.3	704.2	751.8	781.2	784.5	787.4
60°	456.6	456.3	450.8	492.2	529.7	589.4	655.0	702.3	730.6	733.6	737.5
62.5°	410.0	409.0	404.1	442.3	477.5	536.6	602.4	648.1	675.2	677.1	682.4
65°	363.7	362.7	358.1	393.4	425.3	481.8	546.3	589.7	614.2	616.8	615.8
67.5°	318.0	316.1	312.5	344.1	373.1	425.3	487.3	528.7	549.0	551.2	557.4
70°	272.4	270.1	261.9	295.5	321.0	367.6	425.3	462.2	479.2	481.4	480.5
72.5°	227.3	225.1	216.3	247.2	268.8	309.5	361.1	391.7	406.4	408.4	408.4
75°	183.6	182.3	176.8	200.3	218.2	251.5	295.2	320.6	332.0	334.3	333.7
77.5°	141.6	140.6	135.0	155.3	169.3	194.1	229.3	249.2	257.7	260.3	265.8
80°	101.4	101.1	92.3	112.2	118.4	139.3	165.0	180.4	184.9	188.5	192.4
82.5°	64.9	65.2	56.4	73.4	76.0	89.4	105.4	114.8	118.1	121.0	123.9
85°	31.6	32.9	28.1	38.8	39.1	46.0	52.8	56.4	57.7	60.0	62.6
87.5°	8.2	9.5	5.2	11.1	9.8	12.7	14.7	15.7	15.3	17.0	17.9
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°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1368.6	1379.1	1373.9	1390.8	1397.3	1386.9	1405.2	1405.5	1392.4	1407.8	1416.3
5°	1347.4	1358.2	1354.9	1372.6	1380.7	1371.6	1393.8	1398.0	1385.3	1402.6	1416.3
7.5°	1325.9	1338.6	1334.4	1352.3	1362.1	1354.9	1378.7	1385.6	1375.8	1394.7	1413.0
10°	1307.3	1318.1	1313.5	1332.4	1340.9	1335.0	1358.5	1371.2	1362.1	1385.3	1407.1
12.5°	1289.1	1297.9	1292.6	1308.3	1316.4	1308.9	1337.7	1349.4	1342.9	1367.0	1395.1
15°	1265.6	1275.4	1268.2	1282.2	1288.4	1281.9	1305.4	1325.6	1317.4	1343.8	1374.8
17.5°	1247.6	1253.2	1243.4	1254.5	1258.1	1249.3	1273.1	1293.0	1287.1	1315.8	1351.7
20°	1227.7	1232.3	1218.6	1224.8	1224.5	1213.4	1235.2	1254.8	1250.9	1282.5	1323.3
22.5°	1205.5	1207.8	1191.9	1193.2	1192.5	1174.2	1193.8	1213.7	1212.1	1244.0	1289.7
25°	1182.1	1182.4	1161.8	1161.2	1154.0	1132.5	1149.8	1172.3	1167.4	1202.0	1249.9
27.5°	1158.9	1155.6	1130.9	1125.0	1113.6	1087.8	1103.1	1123.4	1120.4	1154.3	1207.5
30°	1134.1	1129.9	1099.5	1088.8	1072.1	1042.5	1055.2	1074.1	1075.7	1105.4	1161.2
32.5°	1110.6	1099.9	1066.3	1050.6	1029.7	995.2	1002.0	1021.3	1023.9	1053.9	1111.3
35°	1080.3	1073.1	1031.7	1005.0	984.4	946.6	953.7	967.1	971.0	1000.4	1058.8
37.5°	1051.6	1040.2	996.1	963.5	937.1	897.3	899.3	913.0	916.9	946.6	1004.3
40°	1021.9	1005.6	958.3	920.1	889.8	848.1	845.8	860.1	863.1	892.1	944.3
42.5°	990.3	970.7	917.5	875.8	840.9	798.5	793.9	806.3	809.6	837.9	889.2
45°	958.3	934.8	875.8	830.1	792.0	748.6	744.0	753.5	758.4	785.1	834.4
47.5°	924.4	897.0	832.7	781.8	742.4	699.0	693.5	702.9	706.8	733.2	779.9
50°	888.8	855.6	788.4	732.3	693.1	650.4	642.2	653.3	656.9	681.7	727.4
52.5°	849.7	812.8	741.1	682.4	643.2	602.4	592.7	603.4	607.7	631.8	673.9
55°	808.3	768.5	693.5	636.4	594.0	554.2	546.0	550.3	559.4	582.2	621.4
57.5°	761.6	722.2	643.2	585.2	544.4	506.2	499.4	503.3	511.8	534.0	569.2
60°	712.0	670.3	592.0	534.0	494.5	458.3	452.1	455.7	464.8	485.0	517.6
62.5°	663.1	616.1	539.2	481.4	445.6	412.0	410.3	409.0	417.5	437.1	465.8
65°	603.8	558.7	484.0	429.2	396.6	366.3	359.8	362.7	370.9	388.8	418.8
67.5°	540.1	499.4	427.6	377.1	348.0	321.0	315.4	316.7	325.2	340.9	366.9
70°	472.6	436.8	369.9	324.5	300.1	274.6	271.1	271.4	279.5	293.2	316.1
72.5°	401.8	369.6	311.5	272.7	252.5	234.2	230.9	227.0	234.5	246.3	265.8
75°	329.8	301.4	253.4	221.8	205.8	190.5	187.6	183.6	191.1	201.3	216.6
77.5°	257.0	234.2	197.0	172.5	160.2	148.7	146.1	141.9	149.4	156.9	169.0
80°	185.9	169.3	147.1	121.3	117.1	109.6	107.0	102.4	109.6	114.5	123.6
82.5°	120.0	108.9	96.2	78.3	77.6	72.1	70.8	65.6	72.1	75.0	81.9
85°	60.7	55.5	52.2	39.8	41.1	37.5	37.2	31.6	36.9	38.2	42.1
87.5°	17.3	18.3	16.3	9.8	12.4	11.7	11.7	8.5	11.7	11.7	13.4
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: P837814

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3	1398.3
2.5°	1399.6	1405.2	1406.5	1406.1	1409.7	1429.3	1422.8	1429.3
5°	1402.9	1415.3	1418.5	1423.1	1429.0	1451.2	1444.0	1451.8
7.5°	1404.8	1423.4	1430.6	1439.4	1448.9	1473.7	1467.8	1475.6
10°	1404.8	1429.0	1439.4	1454.1	1466.8	1495.5	1490.0	1499.1
12.5°	1399.0	1430.0	1444.6	1465.2	1481.5	1512.5	1510.2	1516.7
15°	1386.9	1425.1	1445.3	1471.7	1491.9	1526.5	1525.5	1533.4
17.5°	1370.6	1416.6	1441.0	1474.3	1499.8	1538.6	1540.9	1545.1
20°	1350.0	1400.6	1432.6	1473.3	1505.3	1548.0	1551.0	1556.8
22.5°	1323.0	1381.4	1419.8	1469.1	1506.0	1551.9	1557.2	1562.7
25°	1291.0	1358.2	1403.2	1460.9	1502.7	1551.6	1558.8	1563.7
27.5°	1254.5	1328.2	1382.0	1447.9	1493.6	1546.4	1555.2	1561.1
30°	1212.1	1296.2	1357.9	1430.9	1481.2	1536.6	1546.1	1551.9
32.5°	1168.4	1261.0	1329.2	1409.1	1463.2	1521.0	1529.1	1533.7
35°	1120.7	1218.3	1294.6	1381.0	1440.1	1495.8	1502.0	1506.9
37.5°	1068.9	1172.0	1255.1	1349.4	1407.5	1460.9	1466.5	1472.0
40°	1015.4	1123.4	1210.8	1310.6	1368.6	1418.2	1424.1	1428.0
42.5°	961.6	1069.5	1163.5	1264.9	1322.6	1370.3	1373.9	1377.8
45°	907.1	1013.8	1110.3	1214.4	1271.4	1316.1	1317.4	1320.7
47.5°	851.6	956.0	1051.9	1156.6	1213.1	1253.8	1255.1	1257.7
50°	795.9	898.3	989.6	1094.3	1149.4	1192.5	1186.6	1189.2
52.5°	741.1	837.6	930.9	1027.1	1081.6	1119.8	1121.4	1116.2
55°	687.3	778.3	864.0	956.7	1008.5	1038.2	1037.2	1039.2
57.5°	632.8	718.2	796.8	881.7	932.2	960.3	966.1	959.3
60°	577.3	657.6	728.0	804.7	853.6	877.1	883.9	877.4
62.5°	522.2	595.9	659.9	726.7	772.1	801.1	800.4	793.3
65°	467.1	534.0	591.0	647.8	687.3	716.3	715.0	708.5
67.5°	416.2	471.3	522.5	568.5	602.8	622.7	629.5	621.7
70°	360.1	407.7	452.7	489.6	518.0	535.9	542.4	535.6
72.5°	304.0	344.4	376.1	411.6	433.5	448.5	455.3	448.8
75°	248.5	281.8	307.6	335.3	350.6	363.4	371.2	364.7
77.5°	194.7	220.5	241.0	261.3	278.9	281.8	288.7	284.4
80°	143.5	162.1	177.1	190.5	203.2	204.5	210.1	207.4
82.5°	95.6	108.0	111.9	125.9	134.1	132.8	138.3	136.3
85°	50.6	58.1	64.9	69.1	73.7	69.5	74.4	72.4
87.5°	17.0	17.9	15.7	22.2	24.5	20.9	23.8	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)