

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: P837992

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-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: P837992
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-LD4-4LO-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

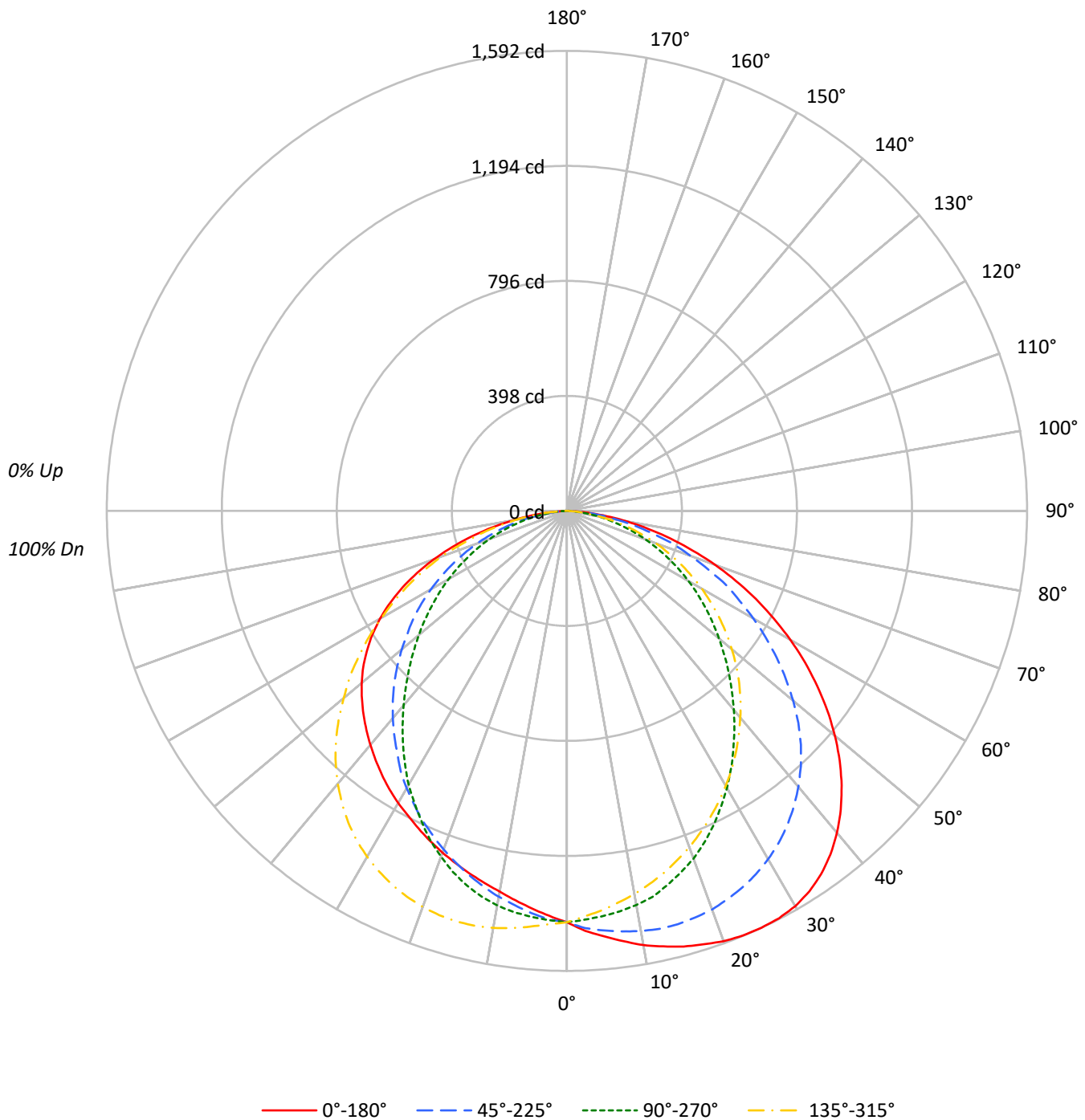
Lumens per Lamp: N/A
Luminaire Lumens: 4176.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3830	3830	3830	3830
5°	3992	3803	3731	3809
10°	4170	3783	3655	3789
15°	4348	3735	3619	3736
20°	4538	3667	3604	3646
25°	4726	3565	3603	3528
30°	4909	3441	3627	3402
35°	5039	3300	3664	3247
40°	5106	3157	3715	3086
45°	5116	3014	3787	2938
50°	5068	2876	3880	2799
55°	4963	2748	3966	2671
60°	4807	2614	4019	2546
65°	4592	2461	3998	2404
70°	4290	2281	3856	2238
75°	3859	2034	3538	2023
80°	3273	1703	2974	1729
85°	2276	1127	1886	1158

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.2
10°-20°	391.3	9.4
20°-30°	599.7	14.4
30°-40°	729.2	17.5
40°-50°	758.1	18.2
50°-60°	684.8	16.4
60°-70°	520.6	12.5
70°-80°	290.2	7.0
80°-90°	66.8	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°	1126.2	27.0
0°-40°	1855.5	44.4
0°-60°	3298.3	79.0
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1423	1423	1423	1423	1423	
5°	1478	1408	1381	1410	1478	143
15°	1561	1341	1299	1341	1561	443
25°	1592	1201	1214	1188	1592	735
35°	1534	1004	1115	988	1534	958
45°	1344	792	995	772	1344	1035
55°	1058	586	845	569	1058	944
65°	721	386	628	378	721	713
75°	371	196	340	195	371	394
85°	74	36	61	38	74	93
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1454.9	1433.7	1434.0	1452.6	1438.3	1445.3	1425.4	1433.0	1430.7	1432.3	1416.1
5°	1477.8	1454.9	1454.6	1470.5	1454.6	1457.6	1432.3	1437.3	1430.0	1425.4	1407.8
7.5°	1502.1	1479.2	1476.8	1490.8	1469.9	1467.5	1439.7	1439.7	1426.4	1414.7	1398.1
10°	1526.0	1502.4	1499.4	1510.0	1484.1	1476.5	1442.6	1437.3	1419.7	1402.5	1384.5
12.5°	1543.9	1520.0	1517.7	1524.3	1495.1	1481.2	1442.6	1432.3	1406.4	1382.2	1368.3
15°	1560.8	1536.3	1530.0	1533.3	1499.7	1481.2	1438.0	1422.1	1388.9	1357.0	1340.7
17.5°	1572.8	1549.2	1542.9	1542.6	1502.1	1475.5	1428.0	1406.1	1366.3	1327.8	1311.5
20°	1584.7	1561.2	1553.2	1547.2	1501.4	1467.9	1413.4	1383.9	1337.4	1294.2	1280.6
22.5°	1590.7	1566.5	1557.9	1548.9	1497.1	1453.9	1395.5	1358.0	1304.8	1253.4	1242.1
25°	1591.7	1566.8	1557.5	1544.6	1488.5	1437.3	1372.3	1326.8	1267.3	1210.2	1200.6
27.5°	1589.1	1561.8	1552.5	1536.9	1475.5	1417.1	1344.7	1291.2	1227.5	1164.4	1154.1
30°	1579.8	1552.2	1543.2	1523.0	1457.2	1392.2	1314.5	1251.7	1183.3	1116.3	1107.3
32.5°	1561.2	1534.3	1527.0	1506.7	1437.3	1363.3	1279.3	1209.2	1134.5	1070.4	1057.2
35°	1533.9	1507.1	1502.4	1481.2	1409.4	1328.8	1240.8	1162.7	1082.7	1017.3	1004.4
37.5°	1498.4	1475.8	1468.9	1448.0	1376.6	1289.6	1196.6	1112.3	1029.9	959.5	951.6
40°	1453.6	1432.3	1427.0	1408.4	1338.4	1246.1	1148.8	1060.1	975.5	910.1	898.8
42.5°	1402.5	1382.5	1379.6	1360.3	1291.2	1197.9	1097.0	1006.0	918.7	855.6	844.3
45°	1344.4	1325.1	1324.4	1306.2	1239.8	1144.5	1042.6	951.2	863.3	797.9	791.9
47.5°	1280.3	1263.0	1263.0	1246.1	1182.3	1085.7	986.4	894.1	807.5	749.7	739.1
50°	1210.6	1194.3	1189.3	1181.0	1118.9	1021.6	927.3	838.4	752.4	697.2	687.0
52.5°	1136.2	1122.2	1125.6	1110.3	1050.2	954.9	867.6	775.6	696.9	646.8	636.5
55°	1057.8	1037.9	1040.9	1035.2	978.5	886.2	800.5	723.8	642.5	595.3	585.7
57.5°	976.5	950.6	961.2	957.9	902.1	815.8	739.1	665.0	588.3	544.8	535.6
60°	893.1	868.2	879.2	876.2	823.7	745.4	675.7	606.9	534.6	495.0	485.7
62.5°	807.5	784.6	794.5	792.2	744.1	673.3	612.6	549.5	480.4	444.9	436.3
65°	721.2	699.2	708.2	706.5	662.1	608.3	547.8	490.1	426.0	395.1	386.5
67.5°	632.8	612.6	620.9	620.9	580.0	528.6	482.8	430.0	372.5	346.0	338.0
70°	545.2	526.3	533.6	532.9	498.4	456.5	417.0	369.9	318.4	296.5	289.9
72.5°	456.9	440.3	446.9	446.2	417.4	390.5	351.3	310.4	265.6	248.0	242.0
75°	371.2	355.6	361.9	361.2	337.7	312.4	286.2	252.3	213.8	201.5	195.6
77.5°	289.5	273.6	278.9	278.9	261.6	243.4	222.5	196.2	169.0	155.7	151.4
80°	211.2	203.5	200.9	201.2	189.6	177.6	167.0	141.8	121.9	112.9	109.9
82.5°	138.8	132.5	129.8	130.5	123.8	116.5	109.9	92.3	79.0	73.7	72.0
85°	73.7	69.1	66.7	68.4	67.1	63.1	59.8	47.8	39.5	37.5	36.5
87.5°	23.2	20.3	18.6	24.6	20.9	18.6	17.9	14.3	11.0	11.0	10.6
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1421.4	1421.4	1408.4	1405.5	1404.1	1405.8	1392.8	1390.5	1409.1	1402.8	1388.5
5°	1410.1	1409.4	1391.2	1387.9	1387.9	1385.9	1371.3	1367.9	1386.5	1381.2	1365.6
7.5°	1396.2	1394.2	1372.6	1370.3	1366.9	1365.6	1349.3	1347.0	1363.0	1359.6	1345.0
10°	1379.2	1377.2	1351.7	1350.0	1346.4	1343.7	1328.4	1326.8	1343.0	1337.7	1326.1
12.5°	1357.0	1353.3	1327.1	1325.4	1322.4	1321.5	1306.5	1305.8	1323.8	1318.5	1306.2
15°	1327.8	1324.8	1295.6	1296.2	1296.5	1296.5	1284.6	1283.9	1301.5	1299.2	1285.9
17.5°	1295.6	1291.6	1263.7	1265.7	1268.0	1270.7	1261.4	1263.0	1281.6	1278.6	1266.7
20°	1259.0	1255.0	1227.8	1233.5	1238.4	1243.8	1237.8	1242.4	1259.7	1258.4	1249.4
22.5°	1218.2	1214.2	1189.0	1197.6	1205.9	1215.9	1213.2	1218.5	1236.8	1236.5	1228.5
25°	1168.4	1169.4	1147.1	1157.8	1171.7	1185.7	1186.6	1195.3	1215.5	1213.5	1206.2
27.5°	1121.9	1123.2	1099.7	1117.6	1136.2	1154.1	1158.4	1170.4	1191.0	1189.3	1183.0
30°	1073.1	1074.8	1051.8	1076.4	1099.0	1120.9	1130.2	1146.5	1167.4	1167.4	1160.8
32.5°	1022.3	1025.3	1001.4	1034.3	1060.5	1086.0	1102.3	1119.2	1143.2	1142.5	1136.8
35°	970.2	973.5	951.6	993.4	1019.6	1050.9	1071.1	1093.7	1114.9	1115.3	1110.9
37.5°	917.0	921.0	901.1	946.9	976.8	1013.7	1039.6	1062.1	1085.7	1087.0	1083.1
40°	864.3	868.6	851.3	895.5	933.3	974.5	1004.4	1030.9	1056.8	1057.5	1054.8
42.5°	811.5	816.1	803.2	846.3	889.2	933.3	968.5	998.7	1025.3	1026.9	1024.0
45°	760.0	764.0	754.7	801.8	843.0	891.1	931.7	965.9	992.7	995.1	994.1
47.5°	708.9	712.5	704.2	747.4	794.9	846.0	892.8	930.7	959.2	961.9	961.2
50°	658.7	661.7	652.8	697.9	745.1	799.5	848.3	892.1	924.0	926.7	926.3
52.5°	608.9	611.9	604.3	651.8	694.6	752.0	805.2	852.6	884.2	888.2	888.8
55°	560.8	562.1	556.1	601.6	643.1	703.2	764.3	810.5	842.0	845.3	847.3
57.5°	512.6	513.0	508.0	551.5	591.3	652.8	716.8	765.3	795.2	798.5	801.5
60°	464.8	464.5	458.9	501.0	539.2	600.0	666.7	714.8	743.7	746.7	750.7
62.5°	417.4	416.4	411.4	450.2	486.1	546.2	613.2	659.7	687.3	689.3	694.6
65°	370.2	369.2	364.6	400.4	433.0	490.4	556.1	600.3	625.2	627.9	626.9
67.5°	323.7	321.7	318.1	350.3	379.8	433.0	496.0	538.2	558.8	561.1	567.4
70°	277.2	274.9	266.6	300.8	326.7	374.2	433.0	470.5	487.7	490.1	489.1
72.5°	231.4	229.1	220.1	251.7	273.6	315.1	367.5	398.8	413.7	415.7	415.7
75°	186.9	185.6	180.0	203.9	222.1	256.0	300.5	326.4	338.0	340.3	339.7
77.5°	144.1	143.1	137.5	158.0	172.3	197.6	233.4	253.7	262.3	265.0	270.6
80°	103.3	102.9	94.0	114.2	120.5	141.8	168.0	183.6	188.3	191.9	195.9
82.5°	66.1	66.4	57.4	74.7	77.4	91.0	107.2	116.9	120.2	123.2	126.2
85°	32.2	33.5	28.6	39.5	39.8	46.8	53.8	57.4	58.8	61.1	63.7
87.5°	8.3	9.6	5.3	11.3	10.0	12.9	14.9	15.9	15.6	17.3	18.3
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°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1393.2	1403.8	1398.5	1415.7	1422.4	1411.8	1430.4	1430.7	1417.4	1433.0	1441.6
5°	1371.6	1382.5	1379.2	1397.2	1405.5	1396.2	1418.7	1423.1	1410.1	1427.7	1441.6
7.5°	1349.7	1362.6	1358.3	1376.6	1386.5	1379.2	1403.5	1410.4	1400.5	1419.7	1438.3
10°	1330.7	1341.7	1337.1	1356.3	1364.9	1359.0	1382.9	1395.8	1386.5	1410.1	1432.3
12.5°	1312.2	1321.1	1315.8	1331.7	1340.0	1332.4	1361.6	1373.6	1366.9	1391.5	1420.1
15°	1288.2	1298.2	1290.9	1305.2	1311.5	1304.8	1328.8	1349.3	1341.0	1367.9	1399.5
17.5°	1270.0	1275.6	1265.7	1277.0	1280.6	1271.6	1295.9	1316.1	1310.2	1339.4	1375.9
20°	1249.7	1254.4	1240.4	1246.7	1246.4	1235.1	1257.4	1277.3	1273.3	1305.5	1347.0
22.5°	1227.2	1229.5	1213.2	1214.5	1213.9	1195.3	1215.2	1235.5	1233.8	1266.3	1312.8
25°	1203.3	1203.6	1182.7	1182.0	1174.7	1152.8	1170.4	1193.3	1188.3	1223.5	1272.3
27.5°	1179.7	1176.4	1151.1	1145.1	1133.5	1107.3	1122.9	1143.5	1140.5	1175.0	1229.1
30°	1154.4	1150.1	1119.2	1108.3	1091.4	1061.1	1074.1	1093.4	1095.0	1125.2	1182.0
32.5°	1130.5	1119.6	1085.4	1069.4	1048.2	1013.0	1020.0	1039.6	1042.2	1072.8	1131.2
35°	1099.7	1092.4	1050.2	1023.0	1002.0	963.5	970.8	984.4	988.4	1018.3	1077.7
37.5°	1070.4	1058.8	1014.0	980.8	953.9	913.4	915.4	929.3	933.3	963.5	1022.3
40°	1040.2	1023.6	975.5	936.6	905.8	863.3	860.9	875.5	878.5	908.1	961.2
42.5°	1008.0	988.1	934.0	891.5	856.0	812.8	808.1	820.8	824.1	853.0	905.1
45°	975.5	951.6	891.5	845.0	806.2	762.0	757.3	767.0	772.0	799.2	849.3
47.5°	941.0	913.1	847.7	795.9	755.7	711.5	705.9	715.5	719.5	746.4	793.9
50°	904.8	870.9	802.5	745.4	705.5	662.1	653.8	665.0	668.7	693.9	740.4
52.5°	864.9	827.4	754.4	694.6	654.7	613.2	603.3	614.2	618.6	643.1	686.0
55°	822.8	782.2	705.9	647.8	604.6	564.1	555.8	560.1	569.4	592.7	632.5
57.5°	775.3	735.1	654.7	595.6	554.1	515.3	508.3	512.3	520.9	543.5	579.4
60°	724.8	682.3	602.6	543.5	503.3	466.5	460.2	463.8	473.1	493.7	526.9
62.5°	675.0	627.2	548.8	490.1	453.5	419.3	417.7	416.4	425.0	444.9	474.1
65°	614.6	568.8	492.7	436.9	403.7	372.9	366.2	369.2	377.5	395.8	426.3
67.5°	549.8	508.3	435.3	383.8	354.3	326.7	321.1	322.4	331.0	347.0	373.5
70°	481.1	444.6	376.5	330.4	305.5	279.6	275.9	276.2	284.5	298.5	321.7
72.5°	409.1	376.2	317.1	277.6	257.0	238.4	235.1	231.1	238.7	250.7	270.6
75°	335.7	306.8	258.0	225.8	209.5	193.9	190.9	186.9	194.6	204.9	220.5
77.5°	261.6	238.4	200.5	175.6	163.0	151.4	148.7	144.4	152.1	159.7	172.0
80°	189.3	172.3	149.7	123.5	119.2	111.6	108.9	104.3	111.6	116.5	125.8
82.5°	122.2	110.9	97.9	79.7	79.0	73.4	72.0	66.7	73.4	76.4	83.3
85°	61.8	56.4	53.1	40.5	41.8	38.2	37.9	32.2	37.5	38.8	42.8
87.5°	17.6	18.6	16.6	10.0	12.6	12.0	12.0	8.6	12.0	12.0	13.6
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: P837992

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4	1423.4
2.5°	1424.7	1430.4	1431.7	1431.4	1435.0	1454.9	1448.3	1454.9
5°	1428.0	1440.6	1444.0	1448.6	1454.6	1477.2	1469.9	1477.8
7.5°	1430.0	1448.9	1456.3	1465.2	1474.8	1500.1	1494.1	1502.1
10°	1430.0	1454.6	1465.2	1480.2	1493.1	1522.3	1516.7	1526.0
12.5°	1424.0	1455.6	1470.5	1491.4	1508.0	1539.6	1537.3	1543.9
15°	1411.8	1450.6	1471.2	1498.1	1518.7	1553.9	1552.9	1560.8
17.5°	1395.2	1442.0	1466.9	1500.7	1526.6	1566.2	1568.5	1572.8
20°	1374.2	1425.7	1458.2	1499.7	1532.3	1575.8	1578.8	1584.7
22.5°	1346.7	1406.1	1445.3	1495.4	1532.9	1579.8	1585.1	1590.7
25°	1314.1	1382.5	1428.4	1487.1	1529.6	1579.4	1586.7	1591.7
27.5°	1277.0	1352.0	1406.8	1473.8	1520.3	1574.1	1583.1	1589.1
30°	1233.8	1319.5	1382.2	1456.6	1507.7	1564.2	1573.8	1579.8
32.5°	1189.3	1283.6	1353.0	1434.3	1489.5	1548.2	1556.5	1561.2
35°	1140.8	1240.1	1317.8	1405.8	1465.9	1522.7	1529.0	1533.9
37.5°	1088.0	1193.0	1277.6	1373.6	1432.7	1487.1	1492.8	1498.4
40°	1033.6	1143.5	1232.5	1334.1	1393.2	1443.6	1449.6	1453.6
42.5°	978.8	1088.7	1184.3	1287.6	1346.4	1394.8	1398.5	1402.5
45°	923.4	1031.9	1130.2	1236.1	1294.2	1339.7	1341.0	1344.4
47.5°	866.9	973.2	1070.8	1177.4	1234.8	1276.3	1277.6	1280.3
50°	810.1	914.4	1007.4	1113.9	1170.0	1213.9	1207.9	1210.6
52.5°	754.4	852.6	947.6	1045.5	1101.0	1139.8	1141.5	1136.2
55°	699.6	792.2	879.5	973.8	1026.6	1056.8	1055.8	1057.8
57.5°	644.1	731.1	811.1	897.5	948.9	977.5	983.5	976.5
60°	587.7	669.4	741.1	819.1	868.9	892.8	899.8	893.1
62.5°	531.6	606.6	671.7	739.7	785.9	815.4	814.8	807.5
65°	475.5	543.5	601.6	659.4	699.6	729.1	727.8	721.2
67.5°	423.7	479.8	531.9	578.7	613.6	633.8	640.8	632.8
70°	366.6	415.0	460.8	498.4	527.3	545.5	552.2	545.2
72.5°	309.4	350.6	382.8	419.0	441.3	456.5	463.5	456.9
75°	253.0	286.9	313.1	341.3	356.9	369.9	377.8	371.2
77.5°	198.2	224.4	245.4	266.0	283.9	286.9	293.8	289.5
80°	146.1	165.0	180.3	193.9	206.9	208.2	213.8	211.2
82.5°	97.3	109.9	113.9	128.2	136.5	135.1	140.8	138.8
85°	51.5	59.1	66.1	70.4	75.0	70.7	75.7	73.7
87.5°	17.3	18.3	15.9	22.6	24.9	21.2	24.2	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)