

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: P838040

Luminaire Tested: **ORLG-24-4-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: P838040
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2LO-20-120-EDD
Description: 2FT 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

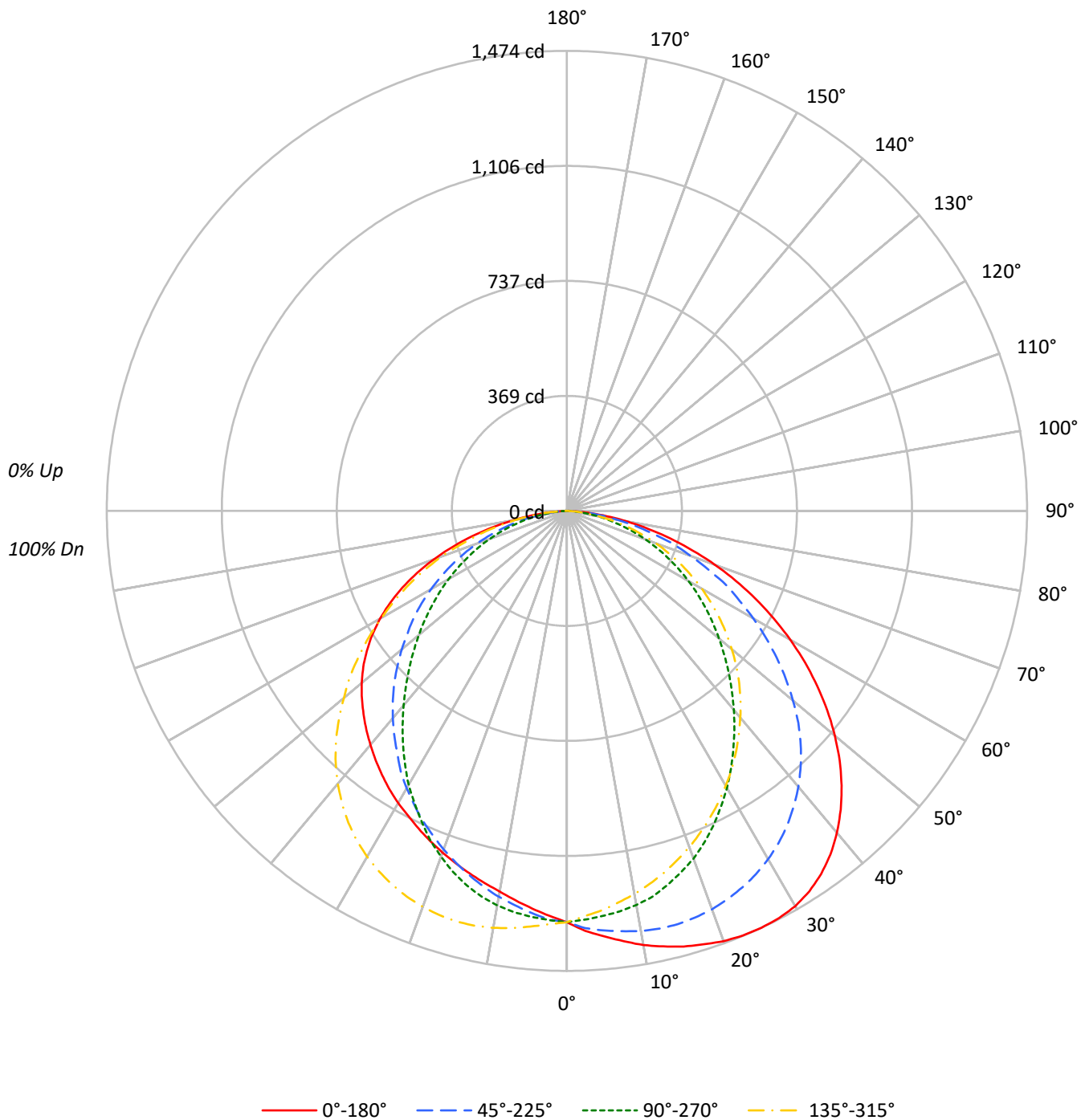
Lumens per Lamp: N/A
Luminaire Lumens: 3866.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1773	1773	1773	1773
5°	1848	1760	1727	1763
10°	1930	1751	1692	1754
15°	2013	1729	1675	1729
20°	2101	1698	1668	1688
25°	2188	1650	1668	1633
30°	2272	1593	1679	1575
35°	2333	1527	1696	1503
40°	2364	1462	1720	1428
45°	2368	1395	1753	1360
50°	2346	1331	1796	1296
55°	2297	1272	1836	1237
60°	2225	1210	1860	1179
65°	2125	1139	1851	1113
70°	1985	1055	1785	1036
75°	1787	941	1638	936
80°	1515	788	1377	800
85°	1053	522	874	536

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.2
10°-20°	362.3	9.4
20°-30°	555.2	14.4
30°-40°	675.1	17.5
40°-50°	701.8	18.2
50°-60°	634.0	16.4
60°-70°	482.0	12.5
70°-80°	268.7	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°	1042.6	27.0
0°-40°	1717.8	44.4
0°-60°	3053.5	79.0
0°-90°	3866.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1318	1318	1318	1318	1318	
5°	1368	1303	1279	1306	1368	132
15°	1445	1241	1203	1242	1445	410
25°	1474	1112	1124	1100	1474	681
35°	1420	930	1032	915	1420	887
45°	1245	733	921	715	1245	958
55°	979	542	783	527	979	874
65°	668	358	581	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°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1346.9	1327.3	1327.6	1344.8	1331.6	1338.0	1319.6	1326.7	1324.5	1326.0	1311.0
5°	1368.2	1346.9	1346.6	1361.4	1346.6	1349.4	1326.0	1330.7	1323.9	1319.6	1303.3
7.5°	1390.6	1369.4	1367.2	1380.1	1360.8	1358.6	1332.8	1332.8	1320.5	1309.8	1294.4
10°	1412.7	1390.9	1388.1	1398.0	1374.0	1366.9	1335.6	1330.7	1314.4	1298.4	1281.8
12.5°	1429.3	1407.2	1405.0	1411.2	1384.1	1371.2	1335.6	1326.0	1302.1	1279.6	1266.7
15°	1445.0	1422.3	1416.4	1419.5	1388.4	1371.2	1331.3	1316.5	1285.8	1256.3	1241.2
17.5°	1456.1	1434.2	1428.4	1428.1	1390.6	1366.0	1322.1	1301.8	1264.9	1229.2	1214.2
20°	1467.1	1445.3	1437.9	1432.4	1390.0	1358.9	1308.5	1281.2	1238.1	1198.2	1185.6
22.5°	1472.7	1450.2	1442.2	1433.9	1386.0	1346.0	1291.9	1257.2	1208.0	1160.4	1149.9
25°	1473.6	1450.5	1441.9	1429.9	1378.0	1330.7	1270.4	1228.3	1173.3	1120.4	1111.5
27.5°	1471.1	1445.9	1437.3	1422.9	1366.0	1311.9	1244.9	1195.4	1136.4	1078.0	1068.5
30°	1462.5	1437.0	1428.7	1410.0	1349.1	1288.9	1216.9	1158.8	1095.5	1033.4	1025.1
32.5°	1445.3	1420.4	1413.6	1394.9	1330.7	1262.1	1184.3	1119.5	1050.3	991.0	978.7
35°	1420.1	1395.2	1390.9	1371.2	1304.8	1230.1	1148.7	1076.5	1002.4	941.8	929.8
37.5°	1387.2	1366.3	1359.9	1340.5	1274.4	1193.9	1107.8	1029.7	953.5	888.3	881.0
40°	1345.7	1326.0	1321.1	1303.9	1239.1	1153.6	1063.5	981.5	903.1	842.5	832.1
42.5°	1298.4	1279.9	1277.2	1259.3	1195.4	1109.0	1015.6	931.4	850.5	792.1	781.7
45°	1244.6	1226.8	1226.1	1209.2	1147.8	1059.5	965.2	880.6	799.2	738.6	733.1
47.5°	1185.3	1169.3	1169.3	1153.6	1094.6	1005.1	913.2	827.8	747.6	694.1	684.2
50°	1120.7	1105.7	1101.0	1093.4	1035.9	945.8	858.5	776.1	696.5	645.5	636.0
52.5°	1051.9	1039.0	1042.0	1027.9	972.2	884.0	803.2	718.0	645.2	598.8	589.3
55°	979.3	960.9	963.6	958.4	905.9	820.4	741.1	670.1	594.8	551.1	542.2
57.5°	904.0	880.0	889.9	886.8	835.2	755.2	684.2	615.7	544.7	504.4	495.8
60°	826.9	803.8	813.9	811.2	762.6	690.1	625.5	561.9	494.9	458.3	449.7
62.5°	747.6	726.3	735.6	733.4	688.8	623.4	567.1	508.7	444.8	411.9	403.9
65°	667.6	647.3	655.6	654.1	612.9	563.1	507.2	453.7	394.4	365.8	357.8
67.5°	585.9	567.1	574.8	574.8	537.0	489.4	446.9	398.1	344.9	320.3	312.9
70°	504.7	487.2	494.0	493.3	461.4	422.7	386.1	342.4	294.8	274.5	268.3
72.5°	423.0	407.6	413.7	413.1	386.4	361.5	325.2	287.4	245.9	229.6	224.1
75°	343.7	329.2	335.0	334.4	312.6	289.2	265.0	233.6	198.0	186.6	181.0
77.5°	268.0	253.3	258.2	258.2	242.2	225.3	205.9	181.7	156.5	144.2	140.2
80°	195.5	188.4	186.0	186.3	175.5	164.4	154.6	131.3	112.8	104.5	101.7
82.5°	128.5	122.6	120.2	120.8	114.7	107.9	101.7	85.5	73.2	68.2	66.7
85°	68.2	63.9	61.8	63.3	62.1	58.4	55.3	44.3	36.6	34.7	33.8
87.5°	21.5	18.8	17.2	22.7	19.4	17.2	16.6	13.2	10.1	10.1	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°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1315.9	1315.9	1303.9	1301.1	1299.9	1301.5	1289.5	1287.3	1304.5	1298.7	1285.5
5°	1305.5	1304.8	1287.9	1284.9	1284.9	1283.0	1269.5	1266.4	1283.6	1278.7	1264.3
7.5°	1292.5	1290.7	1270.7	1268.6	1265.5	1264.3	1249.2	1247.0	1261.8	1258.7	1245.2
10°	1276.9	1275.0	1251.4	1249.8	1246.4	1244.0	1229.8	1228.3	1243.4	1238.4	1227.7
12.5°	1256.3	1252.9	1228.6	1227.1	1224.3	1223.4	1209.5	1208.9	1225.5	1220.6	1209.2
15°	1229.2	1226.5	1199.4	1200.0	1200.3	1200.3	1189.3	1188.6	1204.9	1202.8	1190.5
17.5°	1199.4	1195.7	1169.9	1171.7	1173.9	1176.4	1167.7	1169.3	1186.5	1183.7	1172.7
20°	1165.6	1161.9	1136.7	1141.9	1146.5	1151.5	1145.9	1150.2	1166.2	1165.0	1156.7
22.5°	1127.8	1124.1	1100.7	1108.7	1116.4	1125.6	1123.2	1128.1	1145.0	1144.7	1137.3
25°	1081.7	1082.6	1062.0	1071.8	1084.8	1097.7	1098.6	1106.6	1125.3	1123.5	1116.7
27.5°	1038.6	1039.9	1018.0	1034.6	1051.9	1068.5	1072.5	1083.5	1102.6	1101.0	1095.2
30°	993.5	995.0	973.8	996.5	1017.4	1037.7	1046.3	1061.4	1080.8	1080.8	1074.6
32.5°	946.4	949.2	927.1	957.5	981.8	1005.4	1020.5	1036.2	1058.3	1057.7	1052.5
35°	898.2	901.2	881.0	919.7	944.0	972.9	991.6	1012.5	1032.2	1032.5	1028.5
37.5°	849.0	852.7	834.2	876.7	904.3	938.4	962.4	983.3	1005.1	1006.4	1002.7
40°	800.1	804.1	788.1	829.0	864.1	902.2	929.8	954.4	978.4	979.0	976.6
42.5°	751.2	755.5	743.6	783.5	823.2	864.1	896.6	924.6	949.2	950.7	948.0
45°	703.6	707.3	698.7	742.3	780.4	825.0	862.5	894.2	919.1	921.2	920.3
47.5°	656.3	659.6	652.0	691.9	735.9	783.2	826.6	861.6	888.0	890.5	889.9
50°	609.8	612.6	604.3	646.1	689.8	740.2	785.4	825.9	855.4	857.9	857.6
52.5°	563.7	566.5	559.4	603.4	643.0	696.2	745.4	789.4	818.6	822.2	822.9
55°	519.2	520.4	514.9	557.0	595.4	651.0	707.6	750.3	779.5	782.6	784.4
57.5°	474.6	474.9	470.3	510.6	547.4	604.3	663.6	708.5	736.2	739.3	742.0
60°	430.3	430.0	424.8	463.8	499.2	555.4	617.2	661.8	688.5	691.3	695.0
62.5°	386.4	385.5	380.8	416.8	450.0	505.6	567.7	610.8	636.3	638.1	643.0
65°	342.7	341.8	337.5	370.7	400.8	454.0	514.9	555.7	578.8	581.3	580.3
67.5°	299.7	297.9	294.5	324.3	351.6	400.8	459.2	498.3	517.3	519.5	525.3
70°	256.7	254.5	246.8	278.5	302.5	346.4	400.8	435.6	451.5	453.7	452.8
72.5°	214.2	212.1	203.8	233.0	253.3	291.7	340.3	369.2	383.0	384.8	384.8
75°	173.1	171.8	166.6	188.7	205.6	237.0	278.2	302.2	312.9	315.1	314.5
77.5°	133.4	132.5	127.3	146.3	159.5	182.9	216.1	234.8	242.8	245.3	250.5
80°	95.6	95.3	87.0	105.7	111.6	131.3	155.5	170.0	174.3	177.7	181.4
82.5°	61.2	61.5	53.2	69.2	71.6	84.2	99.3	108.2	111.3	114.0	116.8
85°	29.8	31.0	26.4	36.6	36.9	43.3	49.8	53.2	54.4	56.6	59.0
87.5°	7.7	8.9	4.9	10.5	9.2	12.0	13.8	14.8	14.4	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°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1289.8	1299.6	1294.7	1310.7	1316.8	1307.0	1324.2	1324.5	1312.2	1326.7	1334.7
5°	1269.8	1279.9	1276.9	1293.5	1301.1	1292.5	1313.4	1317.4	1305.5	1321.7	1334.7
7.5°	1249.5	1261.5	1257.5	1274.4	1283.6	1276.9	1299.3	1305.8	1296.5	1314.4	1331.6
10°	1232.0	1242.1	1237.8	1255.7	1263.6	1258.1	1280.2	1292.2	1283.6	1305.5	1326.0
12.5°	1214.8	1223.1	1218.2	1232.9	1240.6	1233.5	1260.6	1271.6	1265.5	1288.2	1314.7
15°	1192.6	1201.9	1195.1	1208.3	1214.2	1208.0	1230.1	1249.2	1241.5	1266.4	1295.6
17.5°	1175.7	1181.0	1171.7	1182.2	1185.6	1177.3	1199.7	1218.5	1212.9	1240.0	1273.8
20°	1157.0	1161.3	1148.4	1154.2	1153.9	1143.5	1164.1	1182.5	1178.8	1208.6	1247.0
22.5°	1136.1	1138.2	1123.2	1124.4	1123.8	1106.6	1125.0	1143.8	1142.2	1172.4	1215.4
25°	1114.0	1114.3	1094.9	1094.3	1087.5	1067.2	1083.5	1104.7	1100.1	1132.7	1177.9
27.5°	1092.1	1089.1	1065.7	1060.2	1049.4	1025.1	1039.6	1058.6	1055.9	1087.8	1137.9
30°	1068.8	1064.8	1036.2	1026.0	1010.4	982.4	994.4	1012.2	1013.7	1041.7	1094.3
32.5°	1046.6	1036.5	1004.8	990.1	970.4	937.8	944.3	962.4	964.9	993.2	1047.3
35°	1018.0	1011.3	972.2	947.0	927.7	892.0	898.8	911.4	915.1	942.7	997.8
37.5°	991.0	980.2	938.7	908.0	883.1	845.6	847.5	860.4	864.1	892.0	946.4
40°	963.0	947.7	903.1	867.1	838.5	799.2	797.0	810.6	813.3	840.7	889.9
42.5°	933.2	914.8	864.7	825.3	792.4	752.5	748.2	759.8	762.9	789.7	837.9
45°	903.1	881.0	825.3	782.3	746.3	705.4	701.1	710.1	714.7	739.9	786.3
47.5°	871.1	845.3	784.7	736.8	699.6	658.7	653.5	662.4	666.1	691.0	735.0
50°	837.6	806.3	742.9	690.1	653.2	612.9	605.2	615.7	619.1	642.4	685.5
52.5°	800.7	766.0	698.4	643.0	606.2	567.7	558.5	568.7	572.7	595.4	635.1
55°	761.7	724.2	653.5	599.7	559.7	522.2	514.6	518.6	527.2	548.7	585.6
57.5°	717.7	680.5	606.2	551.4	513.0	477.1	470.6	474.3	482.3	503.2	536.4
60°	671.0	631.7	557.9	503.2	466.0	431.9	426.0	429.4	438.0	457.1	487.8
62.5°	624.9	580.6	508.1	453.7	419.9	388.2	386.7	385.5	393.4	411.9	438.9
65°	569.0	526.5	456.2	404.5	373.8	345.2	339.0	341.8	349.5	366.4	394.7
67.5°	509.0	470.6	403.0	355.3	328.0	302.5	297.2	298.5	306.5	321.2	345.8
70°	445.4	411.6	348.6	305.8	282.8	258.8	255.4	255.7	263.4	276.3	297.9
72.5°	378.7	348.3	293.5	257.0	237.9	220.7	217.6	213.9	221.0	232.1	250.5
75°	310.8	284.0	238.8	209.0	194.0	179.5	176.7	173.1	180.1	189.7	204.1
77.5°	242.2	220.7	185.7	162.6	150.9	140.2	137.7	133.7	140.8	147.9	159.2
80°	175.2	159.5	138.6	114.3	110.4	103.3	100.8	96.5	103.3	107.9	116.5
82.5°	113.1	102.7	90.7	73.8	73.2	67.9	66.7	61.8	67.9	70.7	77.2
85°	57.2	52.3	49.2	37.5	38.7	35.3	35.0	29.8	34.7	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: P838040

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1319.0	1324.2	1325.4	1325.1	1328.5	1346.9	1340.8	1346.9
5°	1322.1	1333.7	1336.8	1341.1	1346.6	1367.5	1360.8	1368.2
7.5°	1323.9	1341.4	1348.2	1356.5	1365.4	1388.8	1383.2	1390.6
10°	1323.9	1346.6	1356.5	1370.3	1382.3	1409.3	1404.1	1412.7
12.5°	1318.4	1347.6	1361.4	1380.8	1396.1	1425.3	1423.2	1429.3
15°	1307.0	1343.0	1362.0	1386.9	1406.0	1438.5	1437.6	1445.0
17.5°	1291.6	1335.0	1358.0	1389.4	1413.3	1449.9	1452.1	1456.1
20°	1272.3	1319.9	1350.0	1388.4	1418.6	1458.8	1461.6	1467.1
22.5°	1246.7	1301.8	1338.0	1384.4	1419.2	1462.5	1467.4	1472.7
25°	1216.6	1279.9	1322.4	1376.8	1416.1	1462.2	1469.0	1473.6
27.5°	1182.2	1251.7	1302.4	1364.5	1407.5	1457.3	1465.6	1471.1
30°	1142.2	1221.5	1279.6	1348.5	1395.8	1448.1	1457.0	1462.5
32.5°	1101.0	1188.3	1252.6	1327.9	1378.9	1433.3	1441.0	1445.3
35°	1056.2	1148.1	1220.0	1301.5	1357.1	1409.7	1415.5	1420.1
37.5°	1007.3	1104.4	1182.8	1271.6	1326.4	1376.8	1382.0	1387.2
40°	956.9	1058.6	1141.0	1235.1	1289.8	1336.5	1342.0	1345.7
42.5°	906.2	1007.9	1096.4	1192.0	1246.4	1291.3	1294.7	1298.4
45°	854.8	955.3	1046.3	1144.4	1198.2	1240.3	1241.5	1244.6
47.5°	802.6	900.9	991.3	1090.0	1143.2	1181.6	1182.8	1185.3
50°	750.0	846.5	932.6	1031.3	1083.2	1123.8	1118.3	1120.7
52.5°	698.4	789.4	877.3	967.9	1019.3	1055.2	1056.8	1051.9
55°	647.7	733.4	814.3	901.6	950.4	978.4	977.5	979.3
57.5°	596.3	676.9	750.9	830.9	878.5	904.9	910.5	904.0
60°	544.1	619.7	686.1	758.3	804.4	826.6	833.0	826.9
62.5°	492.1	561.6	621.8	684.8	727.6	754.9	754.3	747.6
65°	440.2	503.2	557.0	610.5	647.7	675.0	673.8	667.6
67.5°	392.2	444.2	492.4	535.8	568.0	586.8	593.2	585.9
70°	339.3	384.2	426.6	461.4	488.1	505.0	511.2	504.7
72.5°	286.5	324.6	354.4	387.9	408.5	422.7	429.1	423.0
75°	234.2	265.6	289.9	316.0	330.4	342.4	349.8	343.7
77.5°	183.5	207.8	227.2	246.2	262.8	265.6	272.0	268.0
80°	135.2	152.8	166.9	179.5	191.5	192.7	198.0	195.5
82.5°	90.1	101.7	105.4	118.6	126.3	125.1	130.3	128.5
85°	47.6	54.7	61.2	65.2	69.5	65.5	70.1	68.2
87.5°	16.0	16.9	14.8	20.9	23.1	19.7	22.4	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)