

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: P838110

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1STD-40-120-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: P838110
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-LD4-1STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

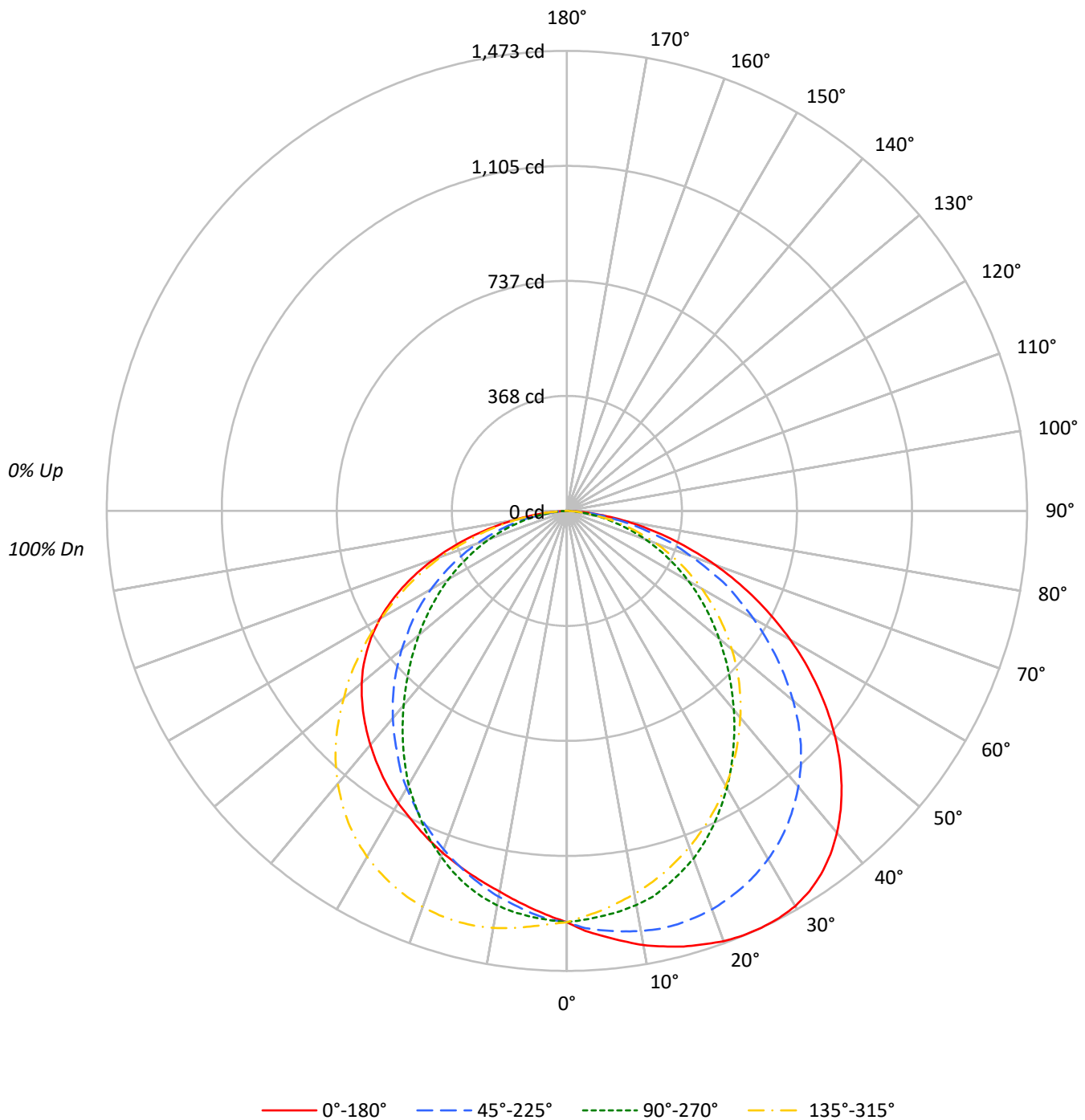
Lumens per Lamp: N/A
Luminaire Lumens: 3863.7 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1772	1772	1772	1772
5°	1847	1759	1726	1762
10°	1929	1750	1691	1753
15°	2012	1728	1674	1728
20°	2099	1697	1667	1687
25°	2186	1649	1667	1632
30°	2271	1592	1678	1574
35°	2331	1526	1695	1502
40°	2362	1461	1718	1428
45°	2367	1394	1752	1359
50°	2344	1330	1795	1295
55°	2296	1271	1835	1236
60°	2224	1209	1859	1178
65°	2124	1138	1849	1112
70°	1984	1055	1784	1036
75°	1785	940	1637	936
80°	1514	788	1376	800
85°	1053	522	872	536

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.2
10°-20°	362.1	9.4
20°-30°	554.9	14.4
30°-40°	674.7	17.5
40°-50°	701.4	18.2
50°-60°	633.6	16.4
60°-70°	481.7	12.5
70°-80°	268.5	7.0
80°-90°	61.8	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°	1042.0	27.0
0°-40°	1716.7	44.4
0°-60°	3051.7	79.0
0°-90°	3863.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1317	1317	1317	1317	1317	
5°	1367	1302	1278	1305	1367	132
15°	1444	1240	1202	1241	1444	409
25°	1473	1111	1123	1100	1473	680
35°	1419	929	1032	914	1419	886
45°	1244	733	921	714	1244	958
55°	979	542	782	527	979	874
65°	667	358	581	349	667	659
75°	343	181	315	180	343	365
85°	68	34	56	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°	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1346.1	1326.5	1326.8	1344.0	1330.8	1337.2	1318.8	1325.9	1323.7	1325.2	1310.2
5°	1367.3	1346.1	1345.8	1360.6	1345.8	1348.6	1325.2	1329.8	1323.1	1318.8	1302.5
7.5°	1389.8	1368.6	1366.4	1379.3	1360.0	1357.8	1332.0	1332.0	1319.7	1309.0	1293.6
10°	1411.9	1390.1	1387.3	1397.1	1373.2	1366.1	1334.8	1329.8	1313.6	1297.6	1281.0
12.5°	1428.5	1406.3	1404.2	1410.3	1383.3	1370.4	1334.8	1325.2	1301.3	1278.9	1266.0
15°	1444.1	1421.4	1415.6	1418.6	1387.6	1370.4	1330.5	1315.7	1285.0	1255.5	1240.5
17.5°	1455.2	1433.4	1427.5	1427.2	1389.8	1365.2	1321.2	1301.0	1264.1	1228.5	1213.4
20°	1466.2	1444.4	1437.1	1431.5	1389.1	1358.1	1307.7	1280.4	1237.4	1197.4	1184.9
22.5°	1471.8	1449.3	1441.4	1433.1	1385.1	1345.2	1291.1	1256.4	1207.3	1159.7	1149.2
25°	1472.7	1449.7	1441.1	1429.1	1377.2	1329.8	1269.6	1227.6	1172.6	1119.7	1110.8
27.5°	1470.2	1445.0	1436.4	1422.0	1365.2	1311.1	1244.1	1194.7	1135.7	1077.3	1067.8
30°	1461.6	1436.1	1427.8	1409.1	1348.3	1288.1	1216.2	1158.1	1094.8	1032.8	1024.5
32.5°	1444.4	1419.5	1412.8	1394.1	1329.8	1261.3	1183.6	1118.8	1049.7	990.4	978.1
35°	1419.2	1394.4	1390.1	1370.4	1304.0	1229.4	1148.0	1075.8	1001.8	941.2	929.3
37.5°	1386.4	1365.5	1359.0	1339.7	1273.6	1193.1	1107.1	1029.1	952.9	887.8	880.4
40°	1344.9	1325.2	1320.3	1303.1	1238.3	1152.9	1062.9	980.9	902.5	842.0	831.6
42.5°	1297.6	1279.2	1276.4	1258.6	1194.7	1108.4	1015.0	930.8	850.0	791.6	781.2
45°	1243.8	1226.0	1225.4	1208.5	1147.1	1058.9	964.6	880.1	798.7	738.2	732.7
47.5°	1184.5	1168.6	1168.6	1152.9	1093.9	1004.5	912.7	827.3	747.1	693.6	683.8
50°	1120.0	1105.0	1100.4	1092.7	1035.2	945.2	858.0	775.7	696.1	645.1	635.6
52.5°	1051.2	1038.3	1041.4	1027.3	971.7	883.5	802.7	717.6	644.8	598.4	588.9
55°	978.7	960.3	963.1	957.8	905.3	819.9	740.6	669.7	594.4	550.8	541.9
57.5°	903.5	879.5	889.3	886.3	834.6	754.8	683.8	615.3	544.4	504.1	495.5
60°	826.4	803.3	813.5	810.7	762.2	689.7	625.1	561.6	494.6	458.0	449.4
62.5°	747.1	725.9	735.1	733.0	688.4	623.0	566.8	508.4	444.5	411.6	403.7
65°	667.2	647.0	655.2	653.7	612.5	562.8	506.9	453.4	394.1	365.6	357.6
67.5°	585.5	566.8	574.5	574.5	536.7	489.1	446.7	397.8	344.7	320.1	312.7
70°	504.4	486.9	493.7	493.0	461.1	422.4	385.8	342.2	294.6	274.3	268.2
72.5°	422.7	407.3	413.5	412.9	386.1	361.3	325.0	287.2	245.8	229.5	223.9
75°	343.4	329.0	334.8	334.2	312.4	289.1	264.8	233.5	197.8	186.5	180.9
77.5°	267.9	253.1	258.0	258.0	242.1	225.2	205.8	181.6	156.4	144.1	140.1
80°	195.4	188.3	185.9	186.2	175.4	164.3	154.5	131.2	112.7	104.4	101.7
82.5°	128.4	122.6	120.1	120.7	114.6	107.8	101.7	85.4	73.1	68.2	66.7
85°	68.2	63.9	61.7	63.3	62.1	58.4	55.3	44.2	36.6	34.7	33.8
87.5°	21.5	18.7	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°	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1315.1	1315.1	1303.1	1300.4	1299.1	1300.7	1288.7	1286.5	1303.7	1297.9	1284.7
5°	1304.7	1304.0	1287.1	1284.1	1284.1	1282.2	1268.7	1265.6	1282.8	1277.9	1263.5
7.5°	1291.8	1289.9	1269.9	1267.8	1264.7	1263.5	1248.4	1246.3	1261.0	1258.0	1244.4
10°	1276.1	1274.2	1250.6	1249.1	1245.7	1243.2	1229.1	1227.6	1242.6	1237.7	1226.9
12.5°	1255.5	1252.1	1227.9	1226.3	1223.6	1222.6	1208.8	1208.2	1224.8	1219.9	1208.5
15°	1228.5	1225.7	1198.7	1199.3	1199.6	1199.6	1188.5	1187.9	1204.2	1202.1	1189.8
17.5°	1198.7	1195.0	1169.2	1171.0	1173.2	1175.6	1167.0	1168.6	1185.8	1183.0	1171.9
20°	1164.9	1161.2	1136.0	1141.2	1145.8	1150.8	1145.2	1149.5	1165.5	1164.3	1156.0
22.5°	1127.1	1123.4	1100.1	1108.1	1115.7	1124.9	1122.5	1127.4	1144.3	1144.0	1136.6
25°	1081.0	1081.9	1061.4	1071.2	1084.1	1097.0	1097.9	1105.9	1124.6	1122.8	1116.0
27.5°	1038.0	1039.2	1017.4	1034.0	1051.2	1067.8	1071.8	1082.9	1101.9	1100.4	1094.5
30°	992.9	994.4	973.2	995.9	1016.8	1037.1	1045.7	1060.7	1080.1	1080.1	1074.0
32.5°	945.9	948.6	926.5	956.9	981.2	1004.8	1019.9	1035.6	1057.7	1057.1	1051.8
35°	897.6	900.7	880.4	919.1	943.4	972.3	991.0	1011.9	1031.6	1031.9	1027.9
37.5°	848.5	852.2	833.7	876.1	903.8	937.9	961.8	982.7	1004.5	1005.8	1002.1
40°	799.6	803.6	787.6	828.5	863.5	901.6	929.3	953.8	977.8	978.4	976.0
42.5°	750.8	755.1	743.1	783.0	822.7	863.5	896.1	924.0	948.6	950.2	947.4
45°	703.2	706.9	698.3	741.9	780.0	824.5	862.0	893.6	918.5	920.7	919.7
47.5°	655.9	659.2	651.6	691.5	735.4	782.7	826.0	861.1	887.5	889.9	889.3
50°	609.5	612.2	603.9	645.7	689.3	739.7	784.9	825.4	854.9	857.4	857.1
52.5°	563.4	566.2	559.1	603.0	642.7	695.8	744.9	788.9	818.1	821.7	822.4
55°	518.9	520.1	514.6	556.6	595.0	650.6	707.2	749.9	779.0	782.1	784.0
57.5°	474.3	474.6	470.0	510.3	547.1	603.9	663.2	708.1	735.7	738.8	741.6
60°	430.1	429.8	424.5	463.6	498.9	555.1	616.8	661.4	688.1	690.9	694.6
62.5°	386.1	385.2	380.6	416.6	449.7	505.3	567.4	610.4	635.9	637.7	642.7
65°	342.5	341.6	337.3	370.5	400.6	453.7	514.6	555.4	578.4	580.9	580.0
67.5°	299.5	297.7	294.3	324.1	351.4	400.6	458.9	498.0	517.0	519.2	525.0
70°	256.5	254.4	246.7	278.3	302.3	346.2	400.6	435.3	451.3	453.4	452.5
72.5°	214.1	212.0	203.7	232.9	253.1	291.5	340.1	368.9	382.8	384.6	384.6
75°	173.0	171.7	166.5	188.6	205.5	236.8	278.0	302.0	312.7	314.9	314.3
77.5°	133.3	132.4	127.2	146.2	159.4	182.8	216.0	234.7	242.7	245.1	250.4
80°	95.5	95.2	86.9	105.7	111.5	131.2	155.4	169.9	174.2	177.6	181.2
82.5°	61.1	61.4	53.1	69.1	71.6	84.2	99.2	108.1	111.2	114.0	116.7
85°	29.8	31.0	26.4	36.6	36.9	43.3	49.8	53.1	54.4	56.5	59.0
87.5°	7.7	8.9	4.9	10.4	9.2	12.0	13.8	14.7	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°	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1289.0	1298.8	1293.9	1309.9	1316.0	1306.2	1323.4	1323.7	1311.4	1325.9	1333.8
5°	1269.0	1279.2	1276.1	1292.7	1300.4	1291.8	1312.6	1316.6	1304.7	1320.9	1333.8
7.5°	1248.7	1260.7	1256.7	1273.6	1282.8	1276.1	1298.5	1305.0	1295.7	1313.6	1330.8
10°	1231.2	1241.4	1237.1	1254.9	1262.9	1257.4	1279.5	1291.4	1282.8	1304.7	1325.2
12.5°	1214.0	1222.3	1217.4	1232.2	1239.8	1232.8	1259.8	1270.9	1264.7	1287.5	1313.9
15°	1191.9	1201.1	1194.4	1207.6	1213.4	1207.3	1229.4	1248.4	1240.8	1265.6	1294.8
17.5°	1175.0	1180.2	1171.0	1181.5	1184.9	1176.6	1199.0	1217.7	1212.2	1239.2	1273.0
20°	1156.3	1160.6	1147.7	1153.5	1153.2	1142.8	1163.3	1181.8	1178.1	1207.9	1246.3
22.5°	1135.4	1137.5	1122.5	1123.7	1123.1	1105.9	1124.3	1143.1	1141.5	1171.6	1214.7
25°	1113.3	1113.6	1094.2	1093.6	1086.9	1066.6	1082.9	1104.1	1099.5	1132.0	1177.2
27.5°	1091.5	1088.4	1065.0	1059.5	1048.8	1024.5	1038.9	1058.0	1055.2	1087.2	1137.2
30°	1068.1	1064.1	1035.6	1025.4	1009.8	981.8	993.8	1011.6	1013.1	1041.1	1093.6
32.5°	1046.0	1035.9	1004.2	989.5	969.8	937.3	943.7	961.8	964.3	992.5	1046.6
35°	1017.4	1010.7	971.7	946.5	927.1	891.5	898.2	910.8	914.5	942.2	997.2
37.5°	990.4	979.6	938.2	907.5	882.6	845.1	846.9	859.8	863.5	891.5	945.9
40°	962.4	947.1	902.5	866.6	838.0	798.7	796.6	810.1	812.8	840.2	889.3
42.5°	932.6	914.2	864.1	824.8	791.9	752.0	747.7	759.4	762.5	789.2	837.4
45°	902.5	880.4	824.8	781.8	745.9	705.0	700.7	709.6	714.2	739.4	785.8
47.5°	870.6	844.8	784.3	736.3	699.2	658.3	653.1	662.0	665.7	690.6	734.5
50°	837.1	805.8	742.5	689.7	652.8	612.5	604.9	615.3	618.7	642.0	685.0
52.5°	800.2	765.5	697.9	642.7	605.8	567.4	558.2	568.3	572.3	595.0	634.7
55°	761.2	723.8	653.1	599.3	559.4	521.9	514.2	518.2	526.8	548.3	585.2
57.5°	717.3	680.1	605.8	551.1	512.7	476.8	470.3	474.0	482.0	502.9	536.1
60°	670.6	631.3	557.6	502.9	465.7	431.6	425.8	429.2	437.8	456.8	487.5
62.5°	624.5	580.3	507.8	453.4	419.6	388.0	386.5	385.2	393.2	411.6	438.7
65°	568.6	526.2	455.9	404.3	373.5	345.0	338.8	341.6	349.3	366.2	394.4
67.5°	508.7	470.3	402.7	355.1	327.8	302.3	297.1	298.3	306.3	321.0	345.6
70°	445.1	411.3	348.4	305.7	282.6	258.7	255.3	255.6	263.3	276.2	297.7
72.5°	378.5	348.1	293.4	256.8	237.8	220.6	217.5	213.8	220.9	231.9	250.4
75°	310.6	283.8	238.7	208.9	193.8	179.4	176.6	173.0	180.0	189.5	204.0
77.5°	242.1	220.6	185.5	162.5	150.8	140.1	137.6	133.6	140.7	147.8	159.1
80°	175.1	159.4	138.5	114.3	110.3	103.2	100.8	96.5	103.2	107.8	116.4
82.5°	113.0	102.6	90.6	73.7	73.1	67.9	66.7	61.7	67.9	70.7	77.1
85°	57.1	52.2	49.2	37.5	38.7	35.3	35.0	29.8	34.7	35.9	39.6
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: P838110

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1318.2	1323.4	1324.6	1324.3	1327.7	1346.1	1340.0	1346.1
5°	1321.2	1332.9	1336.0	1340.3	1345.8	1366.7	1360.0	1367.3
7.5°	1323.1	1340.6	1347.4	1355.7	1364.6	1387.9	1382.4	1389.8
10°	1323.1	1345.8	1355.7	1369.5	1381.5	1408.5	1403.3	1411.9
12.5°	1317.6	1346.7	1360.6	1379.9	1395.3	1424.5	1422.3	1428.5
15°	1306.2	1342.1	1361.2	1386.1	1405.1	1437.7	1436.8	1444.1
17.5°	1290.8	1334.1	1357.2	1388.5	1412.5	1449.0	1451.2	1455.2
20°	1271.5	1319.1	1349.2	1387.6	1417.7	1457.9	1460.7	1466.2
22.5°	1246.0	1301.0	1337.2	1383.6	1418.3	1461.6	1466.6	1471.8
25°	1215.9	1279.2	1321.6	1375.9	1415.2	1461.3	1468.1	1472.7
27.5°	1181.5	1250.9	1301.6	1363.6	1406.6	1456.4	1464.7	1470.2
30°	1141.5	1220.8	1278.9	1347.7	1395.0	1447.2	1456.1	1461.6
32.5°	1100.4	1187.6	1251.8	1327.1	1378.1	1432.5	1440.1	1444.4
35°	1055.5	1147.4	1219.3	1300.7	1356.3	1408.8	1414.6	1419.2
37.5°	1006.7	1103.8	1182.1	1270.9	1325.5	1375.9	1381.1	1386.4
40°	956.3	1058.0	1140.3	1234.3	1289.0	1335.7	1341.2	1344.9
42.5°	905.6	1007.3	1095.8	1191.3	1245.7	1290.5	1293.9	1297.6
45°	854.3	954.8	1045.7	1143.7	1197.4	1239.5	1240.8	1243.8
47.5°	802.1	900.4	990.7	1089.3	1142.5	1180.9	1182.1	1184.5
50°	749.6	846.0	932.0	1030.6	1082.6	1123.1	1117.6	1120.0
52.5°	697.9	788.9	876.7	967.4	1018.7	1054.6	1056.1	1051.2
55°	647.3	733.0	813.8	901.0	949.8	977.8	976.9	978.7
57.5°	596.0	676.4	750.5	830.3	878.0	904.4	909.9	903.5
60°	543.7	619.3	685.7	757.9	803.9	826.0	832.5	826.4
62.5°	491.8	561.2	621.5	684.4	727.1	754.5	753.9	747.1
65°	439.9	502.9	556.6	610.1	647.3	674.6	673.4	667.2
67.5°	392.0	443.9	492.1	535.4	567.7	586.4	592.9	585.5
70°	339.1	384.0	426.4	461.1	487.8	504.7	510.9	504.4
72.5°	286.3	324.4	354.2	387.7	408.3	422.4	428.8	422.7
75°	234.1	265.4	289.7	315.8	330.2	342.2	349.6	343.4
77.5°	183.4	207.7	227.0	246.1	262.7	265.4	271.9	267.9
80°	135.2	152.7	166.8	179.4	191.4	192.6	197.8	195.4
82.5°	90.0	101.7	105.4	118.6	126.3	125.0	130.3	128.4
85°	47.6	54.7	61.1	65.1	69.4	65.4	70.0	68.2
87.5°	16.0	16.9	14.7	20.9	23.0	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)