

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: P838092

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1STD-35-120-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: P838092
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-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

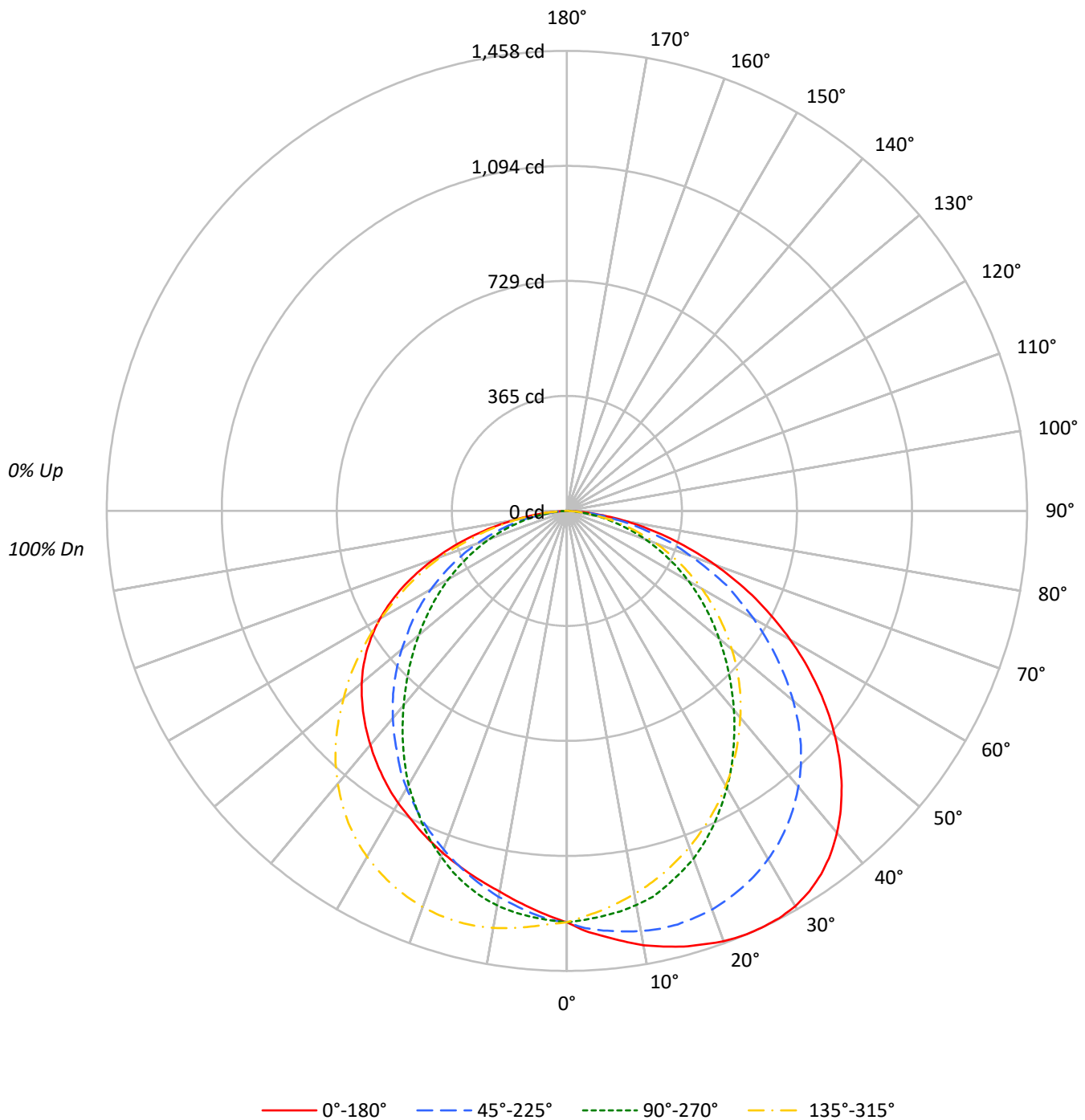
Lumens per Lamp: N/A
Luminaire Lumens: 3825.1 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1754	1754	1754	1754
5°	1828	1742	1709	1744
10°	1910	1733	1674	1735
15°	1992	1711	1658	1711
20°	2078	1680	1650	1670
25°	2165	1633	1650	1616
30°	2248	1576	1661	1558
35°	2308	1511	1678	1487
40°	2339	1446	1701	1413
45°	2343	1380	1734	1345
50°	2321	1317	1777	1282
55°	2273	1259	1816	1224
60°	2201	1197	1841	1166
65°	2103	1127	1831	1101
70°	1965	1044	1766	1025
75°	1768	931	1620	926
80°	1499	780	1362	792
85°	1042	517	865	531

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.2
10°-20°	358.5	9.4
20°-30°	549.3	14.4
30°-40°	668.0	17.5
40°-50°	694.4	18.2
50°-60°	627.2	16.4
60°-70°	476.9	12.5
70°-80°	265.9	7.0
80°-90°	61.2	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°	1031.6	27.0
0°-40°	1699.5	44.4
0°-60°	3021.2	79.0
0°-90°	3825.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1354	1290	1265	1292	1354	131
15°	1430	1228	1190	1228	1430	405
25°	1458	1100	1112	1088	1458	673
35°	1405	920	1022	905	1405	878
45°	1231	725	912	707	1231	948
55°	969	536	774	522	969	865
65°	661	354	575	346	661	653
75°	340	179	312	178	340	361
85°	68	34	56	34	68	85
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°	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8
2.5°	1332.7	1313.2	1313.5	1330.5	1317.5	1323.8	1305.6	1312.6	1310.5	1312.0	1297.1
5°	1353.7	1332.7	1332.4	1347.0	1332.4	1335.1	1312.0	1316.5	1309.9	1305.6	1289.5
7.5°	1375.9	1354.9	1352.7	1365.5	1346.4	1344.2	1318.7	1318.7	1306.5	1295.9	1280.7
10°	1397.8	1376.2	1373.4	1383.2	1359.4	1352.4	1321.4	1316.5	1300.4	1284.6	1268.2
12.5°	1414.2	1392.3	1390.1	1396.2	1369.5	1356.7	1321.4	1312.0	1288.3	1266.1	1253.3
15°	1429.7	1407.2	1401.4	1404.4	1373.7	1356.7	1317.2	1302.6	1272.1	1243.0	1228.0
17.5°	1440.6	1419.0	1413.3	1413.0	1375.9	1351.5	1308.0	1288.0	1251.5	1216.2	1201.3
20°	1451.6	1430.0	1422.7	1417.2	1375.2	1344.5	1294.7	1267.6	1225.0	1185.5	1173.0
22.5°	1457.1	1434.9	1426.9	1418.7	1371.3	1331.8	1278.2	1243.9	1195.2	1148.1	1137.7
25°	1458.0	1435.2	1426.6	1414.8	1363.4	1316.5	1256.9	1215.3	1160.8	1108.5	1099.7
27.5°	1455.5	1430.6	1422.1	1407.8	1351.5	1298.0	1231.7	1182.7	1124.3	1066.6	1057.1
30°	1447.0	1421.8	1413.6	1395.0	1334.8	1275.2	1204.0	1146.5	1083.9	1022.5	1014.3
32.5°	1430.0	1405.4	1398.7	1380.1	1316.5	1248.7	1171.8	1107.6	1039.2	980.5	968.3
35°	1405.0	1380.4	1376.2	1356.7	1291.0	1217.1	1136.5	1065.0	991.7	931.8	920.0
37.5°	1372.5	1351.8	1345.4	1326.3	1260.9	1181.2	1096.1	1018.8	943.4	878.9	871.6
40°	1331.5	1312.0	1307.1	1290.1	1225.9	1141.4	1052.3	971.1	893.5	833.6	823.3
42.5°	1284.6	1266.4	1263.6	1246.0	1182.7	1097.3	1004.8	921.5	841.5	783.7	773.4
45°	1231.4	1213.8	1213.1	1196.4	1135.6	1048.3	954.9	871.3	790.7	730.8	725.3
47.5°	1172.7	1156.9	1156.9	1141.4	1083.0	994.5	903.6	819.0	739.6	686.7	677.0
50°	1108.8	1093.9	1089.4	1081.8	1024.9	935.8	849.4	767.9	689.1	638.7	629.2
52.5°	1040.7	1027.9	1031.0	1017.0	961.9	874.7	794.7	710.4	638.4	592.4	583.0
55°	968.9	950.7	953.4	948.3	896.3	811.7	733.2	663.0	588.5	545.3	536.5
57.5°	894.4	870.7	880.4	877.4	826.3	747.2	677.0	609.2	538.9	499.1	490.6
60°	818.1	795.3	805.3	802.6	754.5	682.8	618.9	555.9	489.6	453.4	444.9
62.5°	739.6	718.6	727.8	725.6	681.5	616.8	561.1	503.3	440.1	407.5	399.6
65°	660.6	640.5	648.7	647.2	606.4	557.2	501.8	448.9	390.2	361.9	354.0
67.5°	579.7	561.1	568.7	568.7	531.3	484.2	442.2	393.8	341.2	316.9	309.6
70°	499.4	482.0	488.7	488.1	456.5	418.2	382.0	338.8	291.7	271.6	265.5
72.5°	418.5	403.3	409.3	408.7	382.3	357.6	321.8	284.4	243.3	227.2	221.7
75°	340.0	325.7	331.5	330.9	309.3	286.2	262.2	231.1	195.9	184.6	179.1
77.5°	265.2	250.6	255.5	255.5	239.6	222.9	203.8	179.7	154.8	142.6	138.7
80°	193.4	186.4	184.0	184.3	173.7	162.7	153.0	129.9	111.6	103.4	100.7
82.5°	127.1	121.3	118.9	119.5	113.4	106.7	100.7	84.5	72.4	67.5	66.0
85°	67.5	63.3	61.1	62.6	61.4	57.8	54.7	43.8	36.2	34.4	33.5
87.5°	21.3	18.6	17.0	22.5	19.2	17.0	16.4	13.1	10.0	10.0	9.7
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°	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8
2.5°	1302.0	1302.0	1290.1	1287.4	1286.1	1287.7	1275.8	1273.7	1290.7	1284.9	1271.8
5°	1291.6	1291.0	1274.3	1271.2	1271.2	1269.4	1256.0	1253.0	1270.0	1265.2	1250.9
7.5°	1278.8	1277.0	1257.2	1255.1	1252.1	1250.9	1236.0	1233.8	1248.4	1245.4	1232.0
10°	1263.3	1261.5	1238.1	1236.6	1233.2	1230.8	1216.8	1215.3	1230.2	1225.3	1214.7
12.5°	1243.0	1239.6	1215.6	1214.1	1211.3	1210.4	1196.7	1196.1	1212.5	1207.7	1196.4
15°	1216.2	1213.5	1186.7	1187.3	1187.6	1187.6	1176.7	1176.0	1192.2	1190.0	1177.9
17.5°	1186.7	1183.0	1157.5	1159.3	1161.4	1163.9	1155.4	1156.9	1173.9	1171.2	1160.2
20°	1153.2	1149.6	1124.6	1129.8	1134.4	1139.2	1133.8	1138.0	1153.8	1152.6	1144.4
22.5°	1115.8	1112.2	1089.1	1097.0	1104.6	1113.7	1111.3	1116.1	1132.9	1132.6	1125.3
25°	1070.2	1071.1	1050.7	1060.5	1073.3	1086.0	1086.9	1094.8	1113.4	1111.6	1104.9
27.5°	1027.6	1028.8	1007.3	1023.7	1040.7	1057.1	1061.1	1072.0	1090.9	1089.4	1083.6
30°	982.9	984.4	963.5	986.0	1006.6	1026.7	1035.2	1050.1	1069.3	1069.3	1063.2
32.5°	936.4	939.1	917.2	947.3	971.4	994.8	1009.7	1025.2	1047.1	1046.5	1041.3
35°	888.6	891.7	871.6	909.9	934.0	962.6	981.1	1001.8	1021.2	1021.6	1017.6
37.5°	840.0	843.6	825.4	867.4	894.7	928.5	952.2	972.9	994.5	995.7	992.1
40°	791.6	795.6	779.8	820.2	854.9	892.6	920.0	944.3	968.0	968.6	966.2
42.5°	743.3	747.5	735.7	775.2	814.4	854.9	887.1	914.8	939.1	940.7	937.9
45°	696.1	699.8	691.3	734.5	772.2	816.3	853.4	884.7	909.3	911.5	910.5
47.5°	649.3	652.6	645.0	684.6	728.1	774.9	817.8	852.5	878.6	881.0	880.4
50°	603.4	606.1	597.9	639.3	682.5	732.3	777.0	817.2	846.4	848.8	848.5
52.5°	557.8	560.5	553.5	597.0	636.2	688.8	737.5	781.0	809.9	813.5	814.1
55°	513.7	514.9	509.4	551.1	589.1	644.1	700.1	742.4	771.3	774.3	776.1
57.5°	469.6	469.9	465.3	505.1	541.6	597.9	656.6	701.0	728.4	731.4	734.2
60°	425.8	425.5	420.3	458.9	493.9	549.6	610.7	654.8	681.2	684.0	687.6
62.5°	382.3	381.4	376.8	412.4	445.2	500.3	561.7	604.3	629.5	631.4	636.2
65°	339.1	338.2	333.9	366.8	396.6	449.2	509.4	549.9	572.7	575.1	574.2
67.5°	296.5	294.7	291.4	320.9	347.9	396.6	454.4	493.0	511.8	514.0	519.7
70°	253.9	251.8	244.2	275.5	299.3	342.7	396.6	430.9	446.8	448.9	448.0
72.5°	212.0	209.8	201.6	230.5	250.6	288.6	336.7	365.3	378.9	380.8	380.8
75°	171.2	170.0	164.8	186.7	203.5	234.5	275.2	299.0	309.6	311.7	311.1
77.5°	132.0	131.1	125.9	144.8	157.8	181.0	213.8	232.4	240.3	242.7	247.9
80°	94.6	94.3	86.1	104.6	110.4	129.9	153.9	168.2	172.4	175.8	179.4
82.5°	60.5	60.8	52.6	68.4	70.9	83.3	98.2	107.1	110.1	112.8	115.6
85°	29.5	30.7	26.2	36.2	36.5	42.9	49.3	52.6	53.8	56.0	58.4
87.5°	7.6	8.8	4.9	10.3	9.1	11.9	13.7	14.6	14.3	15.8	16.7
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°	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8
2.5°	1276.1	1285.8	1281.0	1296.8	1302.9	1293.1	1310.2	1310.5	1298.3	1312.6	1320.5
5°	1256.3	1266.4	1263.3	1279.8	1287.4	1278.8	1299.5	1303.5	1291.6	1307.7	1320.5
7.5°	1236.3	1248.1	1244.2	1260.9	1270.0	1263.3	1285.5	1291.9	1282.8	1300.4	1317.5
10°	1218.9	1229.0	1224.7	1242.3	1250.3	1244.8	1266.7	1278.5	1270.0	1291.6	1312.0
12.5°	1201.9	1210.1	1205.2	1219.8	1227.4	1220.4	1247.2	1258.2	1252.1	1274.6	1300.7
15°	1180.0	1189.1	1182.4	1195.5	1201.3	1195.2	1217.1	1236.0	1228.4	1253.0	1281.9
17.5°	1163.3	1168.4	1159.3	1169.7	1173.0	1164.8	1187.0	1205.5	1200.1	1226.8	1260.3
20°	1144.7	1149.0	1136.2	1142.0	1141.7	1131.3	1151.7	1170.0	1166.3	1195.8	1233.8
22.5°	1124.0	1126.2	1111.3	1112.5	1111.9	1094.8	1113.1	1131.6	1130.1	1159.9	1202.5
25°	1102.1	1102.4	1083.3	1082.7	1076.0	1055.9	1072.0	1093.0	1088.5	1120.7	1165.4
27.5°	1080.6	1077.5	1054.4	1048.9	1038.3	1014.3	1028.5	1047.4	1044.7	1076.3	1125.9
30°	1057.4	1053.5	1025.2	1015.2	999.7	972.0	983.8	1001.5	1003.0	1030.7	1082.7
32.5°	1035.5	1025.5	994.2	979.6	960.1	927.9	934.3	952.2	954.6	982.6	1036.1
35°	1007.3	1000.6	961.9	937.0	917.8	882.6	889.3	901.7	905.4	932.7	987.2
37.5°	980.5	969.8	928.8	898.4	873.7	836.6	838.5	851.2	854.9	882.6	936.4
40°	952.8	937.6	893.5	857.9	829.6	790.7	788.6	802.0	804.7	831.8	880.4
42.5°	923.3	905.1	855.5	816.6	784.0	744.5	740.2	751.8	754.8	781.3	829.0
45°	893.5	871.6	816.6	774.0	738.4	698.0	693.7	702.5	707.1	732.0	777.9
47.5°	861.9	836.3	776.4	729.0	692.2	651.7	646.6	655.4	659.0	683.7	727.2
50°	828.7	797.7	735.1	682.8	646.3	606.4	598.8	609.2	612.5	635.6	678.2
52.5°	792.2	757.9	691.0	636.2	599.7	561.7	552.6	562.6	566.6	589.1	628.3
55°	753.6	716.5	646.6	593.3	553.8	516.7	509.1	513.1	521.6	542.9	579.4
57.5°	710.1	673.3	599.7	545.6	507.6	472.0	465.6	469.3	477.2	497.8	530.7
60°	663.9	625.0	552.0	497.8	461.1	427.3	421.5	424.9	433.4	452.2	482.6
62.5°	618.3	574.5	502.7	448.9	415.4	384.1	382.6	381.4	389.3	407.5	434.3
65°	562.9	521.0	451.3	400.2	369.8	341.5	335.4	338.2	345.8	362.5	390.5
67.5°	503.6	465.6	398.7	351.6	324.5	299.3	294.1	295.3	303.2	317.8	342.1
70°	440.7	407.2	344.9	302.6	279.8	256.1	252.7	253.0	260.6	273.4	294.7
72.5°	374.7	344.6	290.4	254.2	235.4	218.4	215.3	211.7	218.7	229.6	247.9
75°	307.5	281.0	236.3	206.8	191.9	177.6	174.9	171.2	178.2	187.6	201.9
77.5°	239.6	218.4	183.7	160.9	149.3	138.7	136.2	132.3	139.3	146.3	157.5
80°	173.4	157.8	137.2	113.1	109.2	102.2	99.8	95.5	102.2	106.7	115.3
82.5°	111.9	101.6	89.7	73.0	72.4	67.2	66.0	61.1	67.2	69.9	76.3
85°	56.6	51.7	48.7	37.1	38.3	35.0	34.7	29.5	34.4	35.6	39.2
87.5°	16.1	17.0	15.2	9.1	11.6	10.9	10.9	7.9	10.9	10.9	12.5
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: P838092

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1STD-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8	1303.8
2.5°	1305.0	1310.2	1311.4	1311.1	1314.4	1332.7	1326.6	1332.7
5°	1308.0	1319.6	1322.6	1326.9	1332.4	1353.0	1346.4	1353.7
7.5°	1309.9	1327.2	1333.9	1342.1	1350.9	1374.0	1368.6	1375.9
10°	1309.9	1332.4	1342.1	1355.8	1367.6	1394.4	1389.2	1397.8
12.5°	1304.4	1333.3	1347.0	1366.1	1381.3	1410.2	1408.1	1414.2
15°	1293.1	1328.7	1347.6	1372.2	1391.1	1423.3	1422.4	1429.7
17.5°	1277.9	1320.8	1343.6	1374.6	1398.4	1434.5	1436.7	1440.6
20°	1258.8	1305.9	1335.7	1373.7	1403.5	1443.4	1446.1	1451.6
22.5°	1233.5	1288.0	1323.8	1369.8	1404.1	1447.0	1451.9	1457.1
25°	1203.7	1266.4	1308.3	1362.2	1401.1	1446.7	1453.4	1458.0
27.5°	1169.7	1238.4	1288.6	1350.0	1392.6	1441.8	1450.1	1455.5
30°	1130.1	1208.6	1266.1	1334.2	1381.0	1432.7	1441.5	1447.0
32.5°	1089.4	1175.7	1239.3	1313.8	1364.3	1418.1	1425.7	1430.0
35°	1045.0	1135.9	1207.1	1287.7	1342.7	1394.7	1400.5	1405.0
37.5°	996.6	1092.7	1170.3	1258.2	1312.3	1362.2	1367.3	1372.5
40°	946.7	1047.4	1128.9	1222.0	1276.1	1322.3	1327.8	1331.5
42.5°	896.6	997.2	1084.8	1179.4	1233.2	1277.6	1281.0	1284.6
45°	845.8	945.2	1035.2	1132.3	1185.5	1227.1	1228.4	1231.4
47.5°	794.1	891.4	980.8	1078.4	1131.0	1169.1	1170.3	1172.7
50°	742.1	837.6	922.7	1020.3	1071.7	1111.9	1106.4	1108.8
52.5°	691.0	781.0	868.0	957.7	1008.5	1044.1	1045.6	1040.7
55°	640.8	725.6	805.6	892.0	940.3	968.0	967.1	968.9
57.5°	590.0	669.7	743.0	822.0	869.2	895.3	900.8	894.4
60°	538.3	613.1	678.8	750.3	795.9	817.8	824.2	818.1
62.5°	486.9	555.6	615.2	677.6	719.9	746.9	746.3	739.6
65°	435.5	497.8	551.1	604.0	640.8	667.9	666.6	660.6
67.5°	388.1	439.5	487.2	530.1	562.0	580.6	587.0	579.7
70°	335.8	380.2	422.1	456.5	482.9	499.7	505.8	499.4
72.5°	283.4	321.2	350.7	383.8	404.2	418.2	424.6	418.5
75°	231.7	262.8	286.8	312.6	326.9	338.8	346.1	340.0
77.5°	181.6	205.6	224.7	243.6	260.0	262.8	269.1	265.2
80°	133.8	151.1	165.1	177.6	189.5	190.7	195.9	193.4
82.5°	89.1	100.7	104.3	117.4	125.0	123.8	128.9	127.1
85°	47.1	54.1	60.5	64.5	68.7	64.8	69.3	67.5
87.5°	15.8	16.7	14.6	20.7	22.8	19.5	22.2	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)