

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: P837846

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-27-120-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: P837846
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-LD4-3STD-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

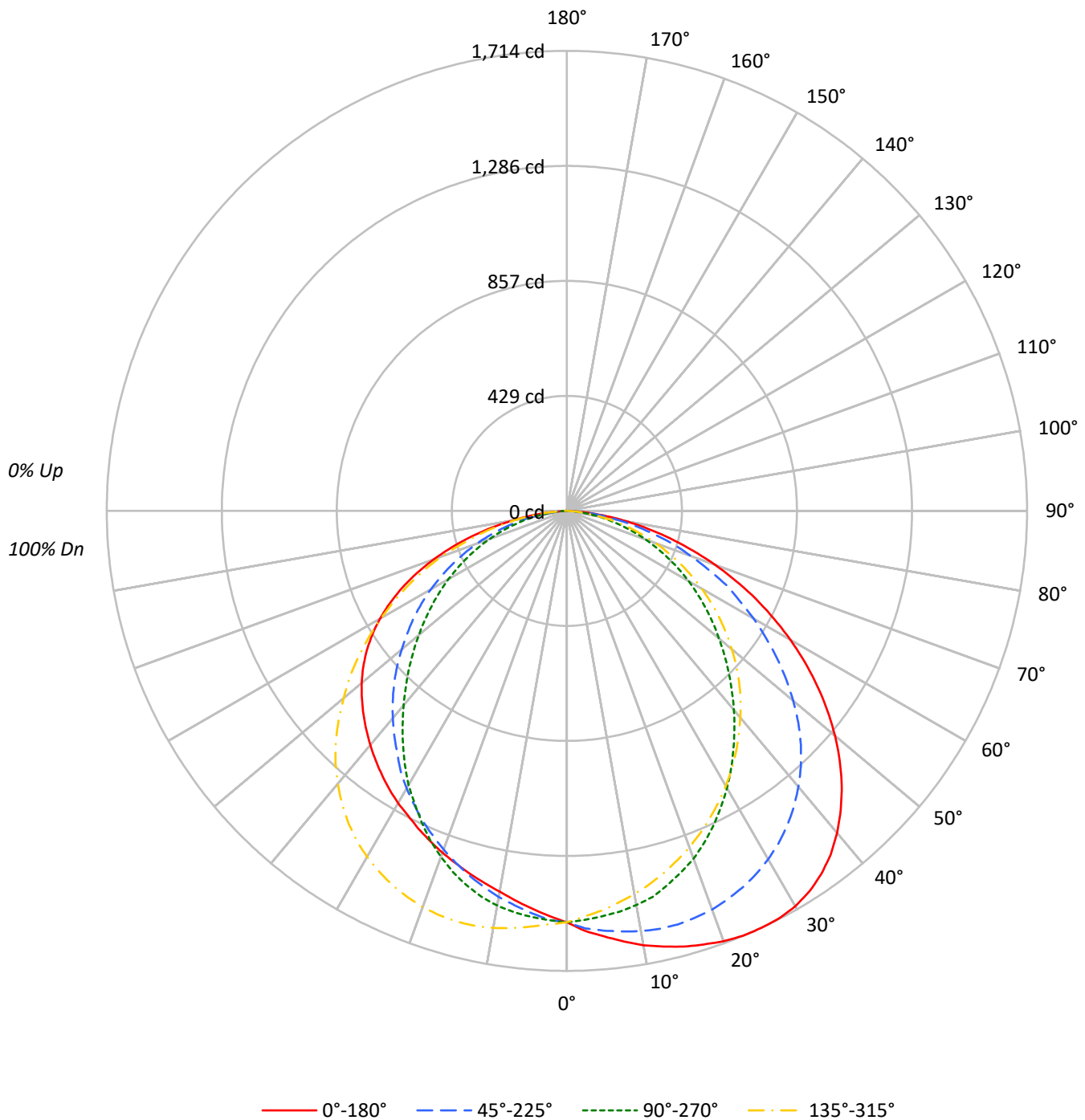
Lumens per Lamp: N/A
Luminaire Lumens: 4497.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4125	4125	4125	4125
5°	4299	4095	4018	4102
10°	4490	4074	3936	4080
15°	4683	4022	3898	4023
20°	4887	3949	3881	3927
25°	5089	3839	3880	3800
30°	5286	3705	3906	3664
35°	5427	3553	3945	3497
40°	5499	3400	4000	3323
45°	5509	3245	4078	3164
50°	5457	3097	4178	3015
55°	5345	2959	4271	2877
60°	5176	2815	4328	2742
65°	4945	2650	4305	2588
70°	4619	2456	4153	2411
75°	4156	2190	3811	2178
80°	3524	1835	3203	1861
85°	2452	1213	2032	1247

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.2
10°-20°	421.4	9.4
20°-30°	645.9	14.4
30°-40°	785.3	17.5
40°-50°	816.4	18.2
50°-60°	737.4	16.4
60°-70°	560.7	12.5
70°-80°	312.6	7.0
80°-90°	72.0	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°	1212.8	27.0
0°-40°	1998.1	44.4
0°-60°	3552.0	79.0
0°-90°	4497.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1533	1533	1533	1533	1533	
5°	1592	1516	1487	1518	1592	153
15°	1681	1444	1399	1444	1681	477
25°	1714	1293	1307	1280	1714	792
35°	1652	1082	1201	1064	1652	1032
45°	1448	853	1072	831	1448	1115
55°	1139	631	910	613	1139	1017
65°	777	416	676	406	777	767
75°	400	211	366	210	400	425
85°	79	39	66	40	79	100
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°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1566.8	1543.9	1544.3	1564.3	1548.9	1556.4	1535.0	1543.2	1540.7	1542.5	1525.0
5°	1591.5	1566.8	1566.5	1583.6	1566.5	1569.7	1542.5	1547.9	1540.0	1535.0	1516.0
7.5°	1617.6	1592.9	1590.4	1605.4	1582.9	1580.4	1550.4	1550.4	1536.1	1523.5	1505.7
10°	1643.3	1617.9	1614.7	1626.2	1598.3	1590.1	1553.6	1547.9	1528.9	1510.3	1491.0
12.5°	1662.6	1636.9	1634.4	1641.5	1610.1	1595.1	1553.6	1542.5	1514.6	1488.5	1473.5
15°	1680.9	1654.4	1647.6	1651.2	1615.1	1595.1	1548.6	1531.4	1495.7	1461.3	1443.8
17.5°	1693.7	1668.4	1661.6	1661.2	1617.6	1589.0	1537.8	1514.3	1471.3	1429.9	1412.3
20°	1706.6	1681.2	1672.6	1666.2	1616.9	1580.8	1522.1	1490.3	1440.2	1393.8	1379.1
22.5°	1713.1	1686.9	1677.7	1668.0	1612.2	1565.7	1502.8	1462.4	1405.2	1349.8	1337.6
25°	1714.1	1687.3	1677.3	1663.4	1602.9	1547.9	1477.8	1428.8	1364.8	1303.3	1292.9
27.5°	1711.3	1681.9	1671.9	1655.1	1589.0	1526.0	1448.1	1390.5	1321.9	1253.9	1242.9
30°	1701.3	1671.6	1661.9	1640.1	1569.3	1499.2	1415.6	1348.0	1274.3	1202.1	1192.4
32.5°	1681.2	1652.3	1644.4	1622.6	1547.9	1468.1	1377.7	1302.2	1221.8	1152.8	1138.5
35°	1651.9	1622.9	1617.9	1595.1	1517.8	1430.9	1336.2	1252.2	1166.0	1095.6	1081.6
37.5°	1613.7	1589.3	1581.8	1559.3	1482.4	1388.7	1288.6	1197.8	1109.1	1033.3	1024.8
40°	1565.4	1542.5	1536.8	1516.8	1441.3	1341.9	1237.1	1141.7	1050.5	980.1	967.9
42.5°	1510.3	1488.9	1485.6	1464.9	1390.5	1290.1	1181.4	1083.4	989.4	921.4	909.3
45°	1447.7	1427.0	1426.3	1406.6	1335.1	1232.5	1122.7	1024.4	929.6	859.2	852.8
47.5°	1378.7	1360.1	1360.1	1341.9	1273.3	1169.2	1062.3	962.9	869.6	807.4	795.9
50°	1303.6	1286.1	1280.8	1271.8	1205.0	1100.2	998.7	902.8	810.2	750.9	739.8
52.5°	1223.6	1208.5	1212.1	1195.7	1130.9	1028.3	934.3	835.3	750.5	696.5	685.4
55°	1139.2	1117.7	1120.9	1114.9	1053.7	954.3	862.1	779.5	691.9	641.1	630.7
57.5°	1051.6	1023.7	1035.1	1031.5	971.5	878.5	795.9	716.2	633.6	586.7	576.7
60°	961.8	935.0	946.8	943.6	887.1	802.7	727.6	653.6	575.7	533.1	523.1
62.5°	869.6	844.9	855.6	853.1	801.3	725.1	659.7	591.8	517.4	479.1	469.8
65°	776.6	753.0	762.7	760.9	713.0	655.0	590.0	527.8	458.7	425.5	416.2
67.5°	681.5	659.7	668.6	668.6	624.7	569.2	519.9	463.0	401.2	372.6	364.0
70°	587.1	566.7	574.6	573.9	536.7	491.6	449.1	398.3	342.9	319.3	312.1
72.5°	492.0	474.1	481.3	480.6	449.4	420.5	378.3	334.3	286.0	267.1	260.7
75°	399.7	382.9	389.7	389.0	363.6	336.5	308.2	271.7	230.3	217.0	210.6
77.5°	311.8	294.6	300.3	300.3	281.8	262.1	239.6	211.3	182.0	167.7	163.0
80°	227.4	219.2	216.3	216.7	204.2	191.3	179.9	152.7	131.2	121.6	118.4
82.5°	149.5	142.7	139.8	140.5	133.4	125.5	118.4	99.4	85.1	79.4	77.6
85°	79.4	74.4	71.9	73.7	72.2	67.9	64.4	51.5	42.5	40.4	39.3
87.5°	25.0	21.8	20.0	26.5	22.5	20.0	19.3	15.4	11.8	11.8	11.4
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°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1530.7	1530.7	1516.8	1513.5	1512.1	1513.9	1499.9	1497.4	1517.5	1510.7	1495.3
5°	1518.5	1517.8	1498.2	1494.6	1494.6	1492.4	1476.7	1473.1	1493.2	1487.4	1470.6
7.5°	1503.5	1501.4	1478.1	1475.6	1472.1	1470.6	1453.1	1450.6	1467.8	1464.2	1448.5
10°	1485.3	1483.1	1455.6	1453.8	1449.9	1447.0	1430.6	1428.8	1446.3	1440.6	1428.1
12.5°	1461.3	1457.4	1429.2	1427.4	1424.1	1423.1	1407.0	1406.3	1425.6	1419.9	1406.6
15°	1429.9	1426.6	1395.2	1395.9	1396.3	1396.3	1383.4	1382.7	1401.6	1399.1	1384.8
17.5°	1395.2	1390.9	1360.9	1363.0	1365.5	1368.4	1358.4	1360.1	1380.2	1376.9	1364.1
20°	1355.9	1351.6	1322.2	1328.3	1333.7	1339.4	1333.0	1338.0	1356.6	1355.1	1345.5
22.5°	1311.9	1307.6	1280.4	1289.7	1298.6	1309.4	1306.5	1312.2	1331.9	1331.5	1323.0
25°	1258.2	1259.3	1235.4	1246.8	1261.8	1276.8	1277.9	1287.2	1309.0	1306.9	1299.0
27.5°	1208.2	1209.6	1184.2	1203.5	1223.6	1242.9	1247.5	1260.4	1282.6	1280.8	1274.0
30°	1155.6	1157.4	1132.7	1159.2	1183.5	1207.1	1217.1	1234.6	1257.2	1257.2	1250.0
32.5°	1100.9	1104.1	1078.4	1113.8	1142.0	1169.6	1187.1	1205.3	1231.1	1230.4	1224.3
35°	1044.8	1048.4	1024.8	1069.8	1098.1	1131.7	1153.5	1177.8	1200.7	1201.0	1196.4
37.5°	987.6	991.9	970.4	1019.8	1051.9	1091.6	1119.5	1143.8	1169.2	1170.6	1166.3
40°	930.7	935.4	916.8	964.3	1005.1	1049.4	1081.6	1110.2	1138.1	1138.8	1136.0
42.5°	873.9	878.9	864.9	911.4	957.5	1005.1	1043.0	1075.5	1104.1	1105.9	1102.7
45°	818.4	822.7	812.7	863.5	907.8	959.7	1003.3	1040.1	1069.1	1071.6	1070.5
47.5°	763.4	767.3	758.4	804.9	856.0	911.1	961.5	1002.2	1033.0	1035.8	1035.1
50°	709.4	712.6	703.0	751.6	802.4	861.0	913.6	960.8	995.1	997.9	997.6
52.5°	655.8	659.0	650.8	701.9	748.0	809.9	867.1	918.2	952.2	956.5	957.2
55°	603.9	605.3	598.9	647.9	692.6	757.3	823.1	872.8	906.8	910.3	912.5
57.5°	552.1	552.4	547.1	593.9	636.8	703.0	772.0	824.2	856.3	859.9	863.1
60°	500.6	500.2	494.1	539.6	580.7	646.1	718.0	769.8	800.9	804.1	808.4
62.5°	449.4	448.4	443.0	484.8	523.5	588.2	660.4	710.5	740.1	742.3	748.0
65°	398.7	397.6	392.6	431.2	466.3	528.1	598.9	646.5	673.3	676.1	675.1
67.5°	348.6	346.5	342.5	377.2	409.0	466.3	534.2	579.6	601.8	604.3	611.1
70°	298.6	296.1	287.1	323.9	351.8	403.0	466.3	506.7	525.2	527.8	526.7
72.5°	249.2	246.7	237.1	271.0	294.6	339.3	395.8	429.4	445.5	447.7	447.7
75°	201.3	199.9	193.8	219.5	239.2	275.7	323.6	351.5	364.0	366.5	365.8
77.5°	155.2	154.1	148.0	170.2	185.6	212.7	251.4	273.2	282.5	285.3	291.4
80°	111.2	110.8	101.2	123.0	129.8	152.7	180.9	197.7	202.7	206.7	211.0
82.5°	71.2	71.5	61.9	80.5	83.3	98.0	115.5	125.9	129.4	132.7	135.9
85°	34.7	36.1	30.7	42.5	42.9	50.4	57.9	61.9	63.3	65.8	68.7
87.5°	8.9	10.4	5.7	12.2	10.7	13.9	16.1	17.2	16.8	18.6	19.7
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°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1500.3	1511.7	1506.0	1524.6	1531.8	1520.3	1540.4	1540.7	1526.4	1543.2	1552.5
5°	1477.1	1488.9	1485.3	1504.6	1513.5	1503.5	1527.8	1532.5	1518.5	1537.5	1552.5
7.5°	1453.5	1467.4	1462.8	1482.4	1493.2	1485.3	1511.4	1518.9	1508.2	1528.9	1548.9
10°	1433.1	1444.9	1439.9	1460.6	1469.9	1463.5	1489.2	1503.2	1493.2	1518.5	1542.5
12.5°	1413.1	1422.7	1417.0	1434.2	1443.1	1434.9	1466.3	1479.2	1472.1	1498.5	1529.3
15°	1387.3	1398.0	1390.2	1405.6	1412.3	1405.2	1430.9	1453.1	1444.2	1473.1	1507.1
17.5°	1367.7	1373.7	1363.0	1375.2	1379.1	1369.4	1395.5	1417.4	1410.9	1442.4	1481.7
20°	1345.8	1350.8	1335.8	1342.6	1342.3	1330.1	1354.1	1375.5	1371.2	1405.9	1450.6
22.5°	1321.5	1324.0	1306.5	1307.9	1307.2	1287.2	1308.7	1330.5	1328.7	1363.7	1413.8
25°	1295.8	1296.1	1273.6	1272.9	1265.0	1241.4	1260.4	1285.1	1279.7	1317.6	1370.2
27.5°	1270.4	1266.8	1239.6	1233.2	1220.7	1192.4	1209.3	1231.4	1228.2	1265.4	1323.7
30°	1243.2	1238.6	1205.3	1193.5	1175.3	1142.7	1156.7	1177.4	1179.2	1211.8	1272.9
32.5°	1217.5	1205.7	1168.9	1151.7	1128.8	1090.9	1098.4	1119.5	1122.4	1155.3	1218.2
35°	1184.2	1176.4	1130.9	1101.6	1079.1	1037.6	1045.5	1060.2	1064.4	1096.6	1160.6
37.5°	1152.8	1140.2	1092.0	1056.2	1027.3	983.6	985.8	1000.8	1005.1	1037.6	1100.9
40°	1120.2	1102.3	1050.5	1008.7	975.4	929.6	927.1	942.9	946.1	977.9	1035.1
42.5°	1085.5	1064.1	1005.8	960.0	921.8	875.3	870.3	883.9	887.5	918.6	974.7
45°	1050.5	1024.8	960.0	910.0	868.1	820.6	815.6	826.0	831.3	860.6	914.6
47.5°	1013.3	983.3	912.8	857.1	813.8	766.2	760.2	770.5	774.8	803.8	854.9
50°	974.3	937.9	864.2	802.7	759.8	713.0	704.0	716.2	720.1	747.3	797.4
52.5°	931.4	891.0	812.4	748.0	705.1	660.4	649.7	661.5	666.1	692.6	738.7
55°	886.0	842.4	760.2	697.6	651.1	607.5	598.5	603.2	613.2	638.2	681.1
57.5°	834.9	791.6	705.1	641.5	596.8	554.9	547.4	551.7	561.0	585.3	623.9
60°	780.5	734.8	649.0	585.3	542.1	502.4	495.6	499.5	509.5	531.7	567.4
62.5°	726.9	675.4	591.0	527.8	488.4	451.6	449.8	448.4	457.7	479.1	510.6
65°	661.8	612.5	530.6	470.5	434.8	401.5	394.4	397.6	406.5	426.2	459.1
67.5°	592.1	547.4	468.8	413.3	381.5	351.8	345.8	347.2	356.5	373.6	402.3
70°	518.1	478.8	405.5	355.8	329.0	301.1	297.1	297.5	306.4	321.4	346.5
72.5°	440.5	405.1	341.5	298.9	276.7	256.7	253.1	248.9	257.1	270.0	291.4
75°	361.5	330.4	277.8	243.1	225.6	208.8	205.6	201.3	209.5	220.6	237.4
77.5°	281.8	256.7	216.0	189.1	175.6	163.0	160.2	155.5	163.8	172.0	185.2
80°	203.8	185.6	161.3	133.0	128.4	120.1	117.3	112.3	120.1	125.5	135.5
82.5°	131.6	119.4	105.5	85.8	85.1	79.0	77.6	71.9	79.0	82.2	89.7
85°	66.5	60.8	57.2	43.6	45.1	41.1	40.8	34.7	40.4	41.8	46.1
87.5°	19.0	20.0	17.9	10.7	13.6	12.9	12.9	9.3	12.9	12.9	14.7
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: P837846

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1534.3	1540.4	1541.8	1541.4	1545.4	1566.8	1559.7	1566.8
5°	1537.8	1551.4	1555.0	1560.0	1566.5	1590.8	1582.9	1591.5
7.5°	1540.0	1560.4	1568.2	1577.9	1588.3	1615.4	1609.0	1617.6
10°	1540.0	1566.5	1577.9	1594.0	1607.9	1639.4	1633.3	1643.3
12.5°	1533.6	1567.5	1583.6	1606.1	1624.0	1658.0	1655.5	1662.6
15°	1520.3	1562.2	1584.3	1613.3	1635.5	1673.4	1672.3	1680.9
17.5°	1502.5	1552.9	1579.7	1616.2	1644.0	1686.6	1689.1	1693.7
20°	1479.9	1535.3	1570.4	1615.1	1650.1	1697.0	1700.2	1706.6
22.5°	1450.2	1514.3	1556.4	1610.4	1650.8	1701.3	1707.0	1713.1
25°	1415.2	1488.9	1538.2	1601.5	1647.3	1700.9	1708.8	1714.1
27.5°	1375.2	1456.0	1515.0	1587.2	1637.2	1695.2	1704.8	1711.3
30°	1328.7	1420.9	1488.5	1568.6	1623.7	1684.4	1694.8	1701.3
32.5°	1280.8	1382.3	1457.0	1544.6	1604.0	1667.3	1676.2	1681.2
35°	1228.6	1335.5	1419.1	1513.9	1578.6	1639.8	1646.5	1651.9
37.5°	1171.7	1284.7	1375.9	1479.2	1542.9	1601.5	1607.6	1613.7
40°	1113.1	1231.4	1327.2	1436.7	1500.3	1554.7	1561.1	1565.4
42.5°	1054.1	1172.4	1275.4	1386.6	1449.9	1502.1	1506.0	1510.3
45°	994.4	1111.3	1217.1	1331.2	1393.8	1442.7	1444.2	1447.7
47.5°	933.6	1048.0	1153.1	1267.9	1329.8	1374.4	1375.9	1378.7
50°	872.4	984.7	1084.8	1199.6	1260.0	1307.2	1300.8	1303.6
52.5°	812.4	918.2	1020.5	1125.9	1185.7	1227.5	1229.3	1223.6
55°	753.4	853.1	947.2	1048.7	1105.6	1138.1	1137.0	1139.2
57.5°	693.7	787.3	873.5	966.5	1021.9	1052.6	1059.1	1051.6
60°	632.9	720.8	798.1	882.1	935.7	961.5	969.0	961.8
62.5°	572.4	653.3	723.3	796.6	846.3	878.2	877.4	869.6
65°	512.0	585.3	647.9	710.1	753.4	785.2	783.8	776.6
67.5°	456.2	516.7	572.8	623.2	660.8	682.6	690.1	681.5
70°	394.7	446.9	496.3	536.7	567.8	587.5	594.6	587.1
72.5°	333.2	377.6	412.3	451.2	475.2	491.6	499.1	492.0
75°	272.5	308.9	337.2	367.6	384.4	398.3	406.9	399.7
77.5°	213.5	241.7	264.2	286.4	305.7	308.9	316.4	311.8
80°	157.3	177.7	194.2	208.8	222.8	224.2	230.3	227.4
82.5°	104.8	118.4	122.6	138.0	147.0	145.5	151.6	149.5
85°	55.4	63.6	71.2	75.8	80.8	76.2	81.5	79.4
87.5°	18.6	19.7	17.2	24.3	26.8	22.9	26.1	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)