

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: P837724

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-1HI-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: P837724
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-1HI-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

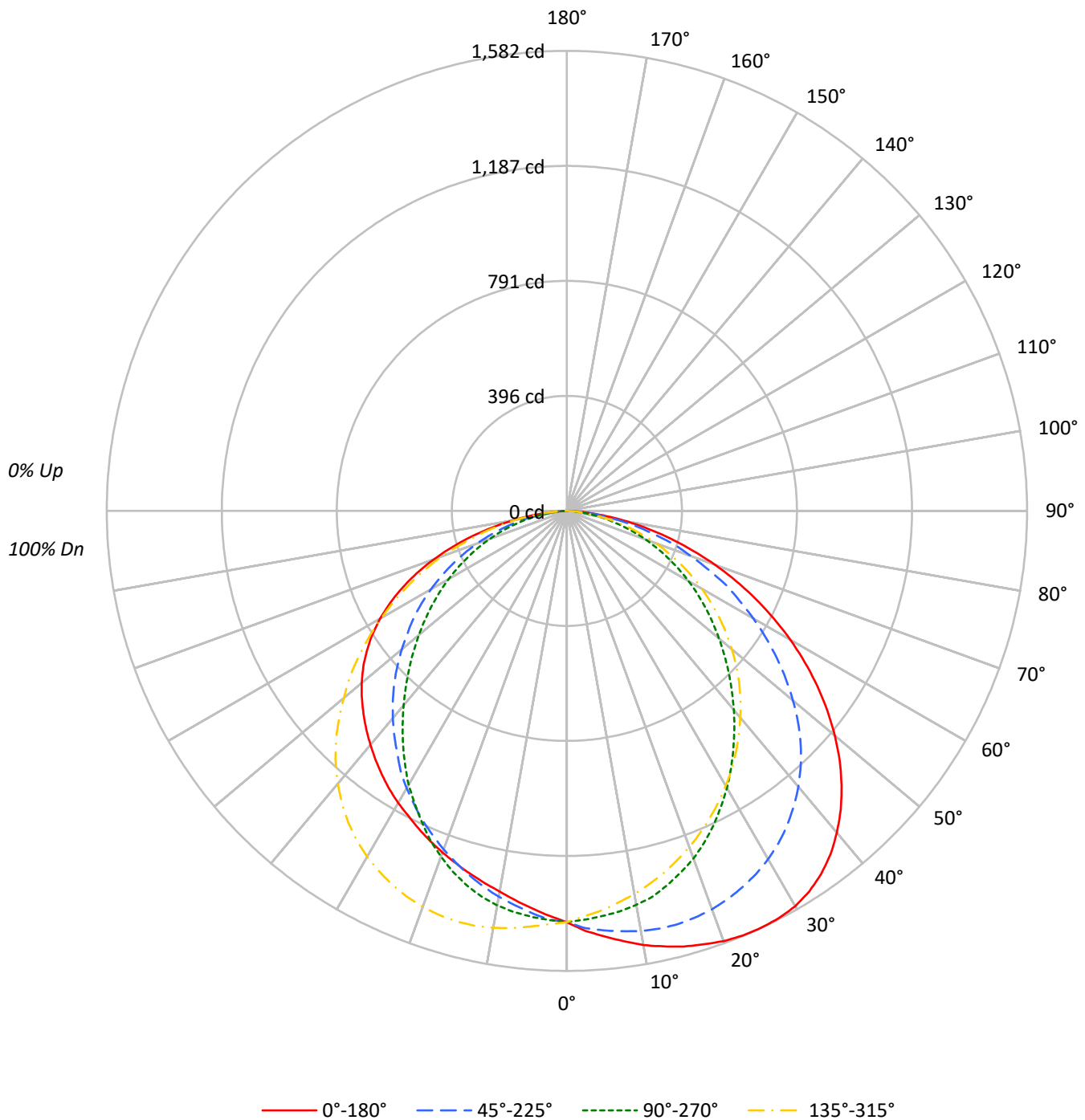
Lumens per Lamp: N/A
Luminaire Lumens: 4149.1 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	3806	3806	3806	3806
5°	3966	3778	3707	3784
10°	4143	3759	3632	3764
15°	4320	3711	3596	3712
20°	4509	3644	3580	3623
25°	4696	3542	3580	3506
30°	4877	3419	3604	3381
35°	5007	3278	3640	3226
40°	5073	3137	3691	3066
45°	5083	2994	3763	2919
50°	5035	2857	3854	2781
55°	4931	2730	3940	2654
60°	4776	2597	3993	2530
65°	4562	2445	3972	2388
70°	4262	2266	3831	2224
75°	3834	2020	3515	2010
80°	3251	1692	2955	1717
85°	2260	1121	1874	1152

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.2
10°-20°	388.8	9.4
20°-30°	595.9	14.4
30°-40°	724.5	17.5
40°-50°	753.2	18.2
50°-60°	680.4	16.4
60°-70°	517.3	12.5
70°-80°	288.4	7.0
80°-90°	66.4	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°	1119.0	27.0
0°-40°	1843.5	44.4
0°-60°	3277.1	79.0
0°-90°	4149.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1414	1414	1414	1414	1414	
5°	1468	1399	1372	1401	1468	142
15°	1551	1332	1291	1332	1551	440
25°	1582	1193	1206	1181	1582	730
35°	1524	998	1108	982	1524	952
45°	1336	787	989	767	1336	1028
55°	1051	582	840	566	1051	938
65°	716	384	624	375	716	708
75°	369	194	338	193	369	392
85°	73	36	61	37	73	92
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°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1445.5	1424.4	1424.8	1443.2	1429.1	1436.0	1416.2	1423.8	1421.5	1423.1	1407.0
5°	1468.3	1445.5	1445.2	1461.1	1445.2	1448.2	1423.1	1428.1	1420.8	1416.2	1398.7
7.5°	1492.4	1469.6	1467.3	1481.2	1460.4	1458.1	1430.4	1430.4	1417.2	1405.6	1389.1
10°	1516.1	1492.7	1489.8	1500.3	1474.6	1467.0	1433.3	1428.1	1410.6	1393.4	1375.6
12.5°	1534.0	1510.2	1507.9	1514.5	1485.5	1471.6	1433.3	1423.1	1397.4	1373.3	1359.4
15°	1550.8	1526.4	1520.1	1523.4	1490.1	1471.6	1428.7	1412.9	1379.9	1348.2	1332.1
17.5°	1562.7	1539.2	1533.0	1532.6	1492.4	1466.0	1418.8	1397.1	1357.5	1319.2	1303.0
20°	1574.5	1551.1	1543.2	1537.3	1491.7	1458.4	1404.3	1375.0	1328.8	1285.9	1272.4
22.5°	1580.5	1556.4	1547.8	1538.9	1487.4	1444.6	1386.5	1349.2	1296.4	1245.3	1234.1
25°	1581.5	1556.7	1547.5	1534.6	1478.9	1428.1	1363.4	1318.2	1259.2	1202.4	1192.9
27.5°	1578.8	1551.8	1542.5	1527.0	1466.0	1407.9	1336.0	1282.9	1219.6	1156.9	1146.7
30°	1569.6	1542.2	1533.3	1513.2	1447.9	1383.2	1306.0	1243.7	1175.7	1109.1	1100.2
32.5°	1551.1	1524.4	1517.1	1497.0	1428.1	1354.5	1271.0	1201.4	1127.2	1063.5	1050.3
35°	1524.1	1497.3	1492.7	1471.6	1400.4	1320.2	1232.8	1155.3	1075.7	1010.8	997.9
37.5°	1488.8	1466.3	1459.4	1438.6	1367.7	1281.3	1188.9	1105.1	1023.3	953.4	945.4
40°	1444.2	1423.1	1417.8	1399.4	1329.8	1238.1	1141.4	1053.3	969.2	904.2	893.0
42.5°	1393.4	1373.6	1370.7	1351.5	1282.9	1190.2	1089.9	999.5	912.8	850.1	838.9
45°	1335.7	1316.6	1315.9	1297.8	1231.8	1137.1	1035.8	945.1	857.7	792.7	786.8
47.5°	1272.0	1254.9	1254.9	1238.1	1174.7	1078.7	980.1	888.4	802.3	744.9	734.3
50°	1202.8	1186.6	1181.6	1173.4	1111.7	1015.1	921.4	833.0	747.5	692.8	682.5
52.5°	1128.9	1115.0	1118.3	1103.1	1043.4	948.7	862.0	770.6	692.4	642.6	632.4
55°	1051.0	1031.2	1034.2	1028.6	972.2	880.5	795.3	719.1	638.3	591.5	581.9
57.5°	970.2	944.5	955.0	951.7	896.3	810.5	734.3	660.8	584.6	541.3	532.1
60°	887.4	862.6	873.5	870.6	818.4	740.6	671.3	603.0	531.1	491.9	482.6
62.5°	802.3	779.5	789.4	787.1	739.3	669.0	608.6	546.0	477.3	442.0	433.5
65°	716.5	694.7	703.6	702.0	657.8	604.3	544.3	486.9	423.2	392.6	384.0
67.5°	628.8	608.6	616.9	616.9	576.3	525.2	479.7	427.2	370.1	343.7	335.8
70°	541.7	522.9	530.1	529.5	495.2	453.6	414.3	367.5	316.4	294.6	288.0
72.5°	453.9	437.4	444.0	443.4	414.7	387.9	349.0	308.4	263.9	246.4	240.5
75°	368.8	353.3	359.6	358.9	335.5	310.4	284.4	250.7	212.4	200.2	194.3
77.5°	287.7	271.8	277.1	277.1	259.9	241.8	221.0	195.0	167.9	154.7	150.4
80°	209.8	202.2	199.6	199.9	188.4	176.5	165.9	140.9	121.1	112.2	109.2
82.5°	137.9	131.6	129.0	129.6	123.0	115.8	109.2	91.7	78.5	73.2	71.6
85°	73.2	68.6	66.3	68.0	66.6	62.7	59.4	47.5	39.3	37.3	36.3
87.5°	23.1	20.1	18.5	24.4	20.8	18.5	17.8	14.2	10.9	10.9	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°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1412.2	1412.2	1399.4	1396.4	1395.1	1396.7	1383.9	1381.6	1400.0	1393.8	1379.6
5°	1401.0	1400.4	1382.2	1378.9	1378.9	1376.9	1362.4	1359.1	1377.6	1372.3	1356.8
7.5°	1387.2	1385.2	1363.7	1361.4	1358.1	1356.8	1340.6	1338.3	1354.2	1350.9	1336.4
10°	1370.3	1368.4	1343.0	1341.3	1337.7	1335.0	1319.9	1318.2	1334.4	1329.1	1317.6
12.5°	1348.2	1344.6	1318.5	1316.9	1313.9	1312.9	1298.1	1297.4	1315.2	1310.0	1297.8
15°	1319.2	1316.2	1287.2	1287.9	1288.2	1288.2	1276.3	1275.7	1293.1	1290.8	1277.6
17.5°	1287.2	1283.2	1255.5	1257.5	1259.8	1262.5	1253.2	1254.9	1273.3	1270.4	1258.5
20°	1250.9	1247.0	1219.9	1225.5	1230.5	1235.7	1229.8	1234.4	1251.6	1250.3	1241.4
22.5°	1210.3	1206.4	1181.3	1189.9	1198.1	1208.0	1205.4	1210.7	1228.8	1228.5	1220.6
25°	1160.9	1161.8	1139.7	1150.3	1164.2	1178.0	1179.0	1187.6	1207.7	1205.7	1198.5
27.5°	1114.7	1116.0	1092.6	1110.4	1128.9	1146.7	1151.0	1162.8	1183.3	1181.6	1175.4
30°	1066.2	1067.8	1045.1	1069.5	1091.9	1113.7	1122.9	1139.1	1159.9	1159.9	1153.3
32.5°	1015.7	1018.7	994.9	1027.6	1053.6	1079.0	1095.2	1112.0	1135.8	1135.1	1129.5
35°	963.9	967.2	945.4	987.0	1013.1	1044.1	1064.2	1086.6	1107.7	1108.1	1103.8
37.5°	911.1	915.1	895.3	940.8	970.5	1007.1	1032.9	1055.3	1078.7	1080.0	1076.1
40°	858.7	863.0	845.8	889.7	927.3	968.2	997.9	1024.3	1050.0	1050.7	1048.0
42.5°	806.2	810.9	798.0	840.9	883.4	927.3	962.3	992.3	1018.7	1020.3	1017.4
45°	755.1	759.1	749.8	796.7	837.6	885.4	925.7	959.6	986.4	988.7	987.7
47.5°	704.3	707.9	699.7	742.6	789.7	840.5	887.1	924.7	953.0	955.7	955.0
50°	654.5	657.5	648.6	693.4	740.3	794.4	842.9	886.4	918.1	920.7	920.4
52.5°	605.0	608.0	600.4	647.6	690.1	747.2	800.0	847.1	878.5	882.4	883.1
55°	557.2	558.5	552.6	597.7	639.0	698.7	759.4	805.2	836.6	839.9	841.9
57.5°	509.3	509.7	504.7	547.9	587.5	648.6	712.2	760.4	790.1	793.4	796.3
60°	461.8	461.5	455.9	497.8	535.7	596.1	662.4	710.2	738.9	741.9	745.9
62.5°	414.7	413.7	408.7	447.3	482.9	542.7	609.3	655.5	682.9	684.8	690.1
65°	367.8	366.8	362.2	397.8	430.2	487.2	552.6	596.4	621.2	623.8	622.8
67.5°	321.6	319.7	316.0	348.0	377.4	430.2	492.8	534.7	555.2	557.5	563.8
70°	275.5	273.1	264.9	298.9	324.6	371.8	430.2	467.4	484.6	486.9	485.9
72.5°	229.9	227.6	218.7	250.1	271.8	313.1	365.2	396.2	411.0	413.0	413.0
75°	185.7	184.4	178.8	202.5	220.7	254.3	298.5	324.3	335.8	338.1	337.5
77.5°	143.2	142.2	136.6	157.0	171.2	196.3	231.9	252.0	260.6	263.2	268.9
80°	102.6	102.3	93.4	113.5	119.7	140.9	166.9	182.4	187.0	190.7	194.6
82.5°	65.6	66.0	57.1	74.2	76.9	90.4	106.6	116.1	119.4	122.4	125.4
85°	32.0	33.3	28.4	39.3	39.6	46.5	53.4	57.1	58.4	60.7	63.3
87.5°	8.2	9.6	5.3	11.2	9.9	12.9	14.8	15.8	15.5	17.2	18.1
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°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1384.2	1394.7	1389.5	1406.6	1413.2	1402.7	1421.1	1421.5	1408.3	1423.8	1432.4
5°	1362.7	1373.6	1370.3	1388.1	1396.4	1387.2	1409.6	1413.9	1401.0	1418.5	1432.4
7.5°	1341.0	1353.8	1349.6	1367.7	1377.6	1370.3	1394.4	1401.3	1391.4	1410.6	1429.1
10°	1322.2	1333.1	1328.4	1347.6	1356.2	1350.2	1374.0	1386.8	1377.6	1401.0	1423.1
12.5°	1303.7	1312.6	1307.3	1323.2	1331.4	1323.8	1352.9	1364.7	1358.1	1382.5	1410.9
15°	1279.9	1289.8	1282.6	1296.8	1303.0	1296.4	1320.2	1340.6	1332.4	1359.1	1390.5
17.5°	1261.8	1267.4	1257.5	1268.7	1272.4	1263.5	1287.5	1307.7	1301.7	1330.7	1367.0
20°	1241.7	1246.3	1232.4	1238.7	1238.4	1227.2	1249.3	1269.1	1265.1	1297.1	1338.3
22.5°	1219.2	1221.6	1205.4	1206.7	1206.1	1187.6	1207.4	1227.5	1225.8	1258.2	1304.4
25°	1195.5	1195.8	1175.0	1174.4	1167.1	1145.4	1162.8	1185.6	1180.7	1215.6	1264.1
27.5°	1172.1	1168.8	1143.7	1137.8	1126.2	1100.2	1115.7	1136.1	1133.1	1167.5	1221.2
30°	1147.0	1142.7	1112.0	1101.2	1084.3	1054.3	1067.2	1086.3	1088.0	1118.0	1174.4
32.5°	1123.3	1112.4	1078.4	1062.6	1041.4	1006.5	1013.4	1032.9	1035.5	1065.9	1123.9
35°	1092.6	1085.3	1043.4	1016.4	995.6	957.3	964.6	978.1	982.1	1011.8	1070.8
37.5°	1063.5	1052.0	1007.5	974.5	947.8	907.5	909.5	923.3	927.3	957.3	1015.7
40°	1033.5	1017.0	969.2	930.6	899.9	857.7	855.4	869.9	872.9	902.2	955.0
42.5°	1001.5	981.7	928.0	885.7	850.4	807.6	802.9	815.5	818.8	847.5	899.3
45°	969.2	945.4	885.7	839.6	801.0	757.1	752.5	762.0	767.0	794.0	843.8
47.5°	934.9	907.2	842.2	790.7	750.8	706.9	701.3	710.9	714.9	741.6	788.8
50°	898.9	865.3	797.3	740.6	701.0	657.8	649.5	660.8	664.4	689.5	735.6
52.5°	859.3	822.1	749.5	690.1	650.5	609.3	599.4	610.3	614.6	639.0	681.5
55°	817.5	777.2	701.3	643.6	600.7	560.5	552.2	556.5	565.7	588.8	628.4
57.5°	770.3	730.4	650.5	591.8	550.6	512.0	505.1	509.0	517.6	540.0	575.6
60°	720.1	677.9	598.7	540.0	500.1	463.5	457.2	460.8	470.1	490.5	523.5
62.5°	670.7	623.1	545.3	486.9	450.6	416.6	415.0	413.7	422.3	442.0	471.1
65°	610.6	565.1	489.5	434.1	401.1	370.5	363.9	366.8	375.1	393.2	423.6
67.5°	546.3	505.1	432.5	381.3	352.0	324.6	319.0	320.3	328.9	344.7	371.1
70°	478.0	441.7	374.1	328.2	303.5	277.8	274.1	274.5	282.7	296.6	319.7
72.5°	406.4	373.8	315.0	275.8	255.3	236.9	233.6	229.6	237.2	249.1	268.9
75°	333.5	304.8	256.3	224.3	208.2	192.7	189.7	185.7	193.3	203.5	219.0
77.5°	259.9	236.9	199.2	174.5	162.0	150.4	147.8	143.5	151.1	158.7	170.9
80°	188.0	171.2	148.8	122.7	118.4	110.8	108.2	103.6	110.8	115.8	125.0
82.5°	121.4	110.2	97.3	79.2	78.5	72.9	71.6	66.3	72.9	75.9	82.8
85°	61.4	56.1	52.8	40.2	41.6	37.9	37.6	32.0	37.3	38.6	42.6
87.5°	17.5	18.5	16.5	9.9	12.5	11.9	11.9	8.6	11.9	11.9	13.5
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: P837724

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-1HI-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2	1414.2
2.5°	1415.5	1421.1	1422.5	1422.1	1425.8	1445.5	1439.0	1445.5
5°	1418.8	1431.4	1434.7	1439.3	1445.2	1467.7	1460.4	1468.3
7.5°	1420.8	1439.6	1446.9	1455.8	1465.3	1490.4	1484.5	1492.4
10°	1420.8	1445.2	1455.8	1470.6	1483.5	1512.5	1506.9	1516.1
12.5°	1414.9	1446.2	1461.1	1481.8	1498.3	1529.7	1527.4	1534.0
15°	1402.7	1441.3	1461.7	1488.4	1508.9	1543.9	1542.9	1550.8
17.5°	1386.2	1432.7	1457.4	1491.1	1516.8	1556.1	1558.4	1562.7
20°	1365.4	1416.5	1448.8	1490.1	1522.4	1565.6	1568.6	1574.5
22.5°	1338.0	1397.1	1436.0	1485.8	1523.1	1569.6	1574.9	1580.5
25°	1305.7	1373.6	1419.2	1477.5	1519.8	1569.3	1576.5	1581.5
27.5°	1268.7	1343.3	1397.7	1464.4	1510.5	1564.0	1572.9	1578.8
30°	1225.8	1311.0	1373.3	1447.2	1498.0	1554.1	1563.6	1569.6
32.5°	1181.6	1275.3	1344.3	1425.1	1479.9	1538.2	1546.5	1551.1
35°	1133.5	1232.1	1309.3	1396.7	1456.4	1512.8	1519.1	1524.1
37.5°	1081.0	1185.3	1269.4	1364.7	1423.4	1477.5	1483.2	1488.8
40°	1026.9	1136.1	1224.5	1325.5	1384.2	1434.3	1440.3	1444.2
42.5°	972.5	1081.7	1176.7	1279.3	1337.7	1385.8	1389.5	1393.4
45°	917.4	1025.3	1122.9	1228.2	1285.9	1331.1	1332.4	1335.7
47.5°	861.3	966.9	1063.9	1169.8	1226.8	1268.1	1269.4	1272.0
50°	804.9	908.5	1000.9	1106.8	1162.5	1206.1	1200.1	1202.8
52.5°	749.5	847.1	941.5	1038.8	1093.9	1132.5	1134.1	1128.9
55°	695.1	787.1	873.9	967.5	1020.0	1050.0	1049.0	1051.0
57.5°	640.0	726.4	805.9	891.7	942.8	971.2	977.1	970.2
60°	583.9	665.0	736.3	813.8	863.3	887.1	894.0	887.4
62.5°	528.1	602.7	667.4	735.0	780.8	810.2	809.5	802.3
65°	472.4	540.0	597.7	655.1	695.1	724.4	723.1	716.5
67.5°	420.9	476.7	528.5	575.0	609.6	629.7	636.7	628.8
70°	364.2	412.4	457.9	495.2	523.9	542.0	548.6	541.7
72.5°	307.5	348.4	380.4	416.3	438.4	453.6	460.5	453.9
75°	251.4	285.0	311.1	339.1	354.6	367.5	375.4	368.8
77.5°	196.9	223.0	243.8	264.2	282.1	285.0	291.9	287.7
80°	145.1	164.0	179.1	192.7	205.5	206.8	212.4	209.8
82.5°	96.7	109.2	113.1	127.3	135.6	134.3	139.9	137.9
85°	51.1	58.7	65.6	69.9	74.6	70.3	75.2	73.2
87.5°	17.2	18.1	15.8	22.4	24.7	21.1	24.1	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)