

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: P838028

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4LO-50-120-EDD-90**

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: P838028
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-LD4-4LO-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

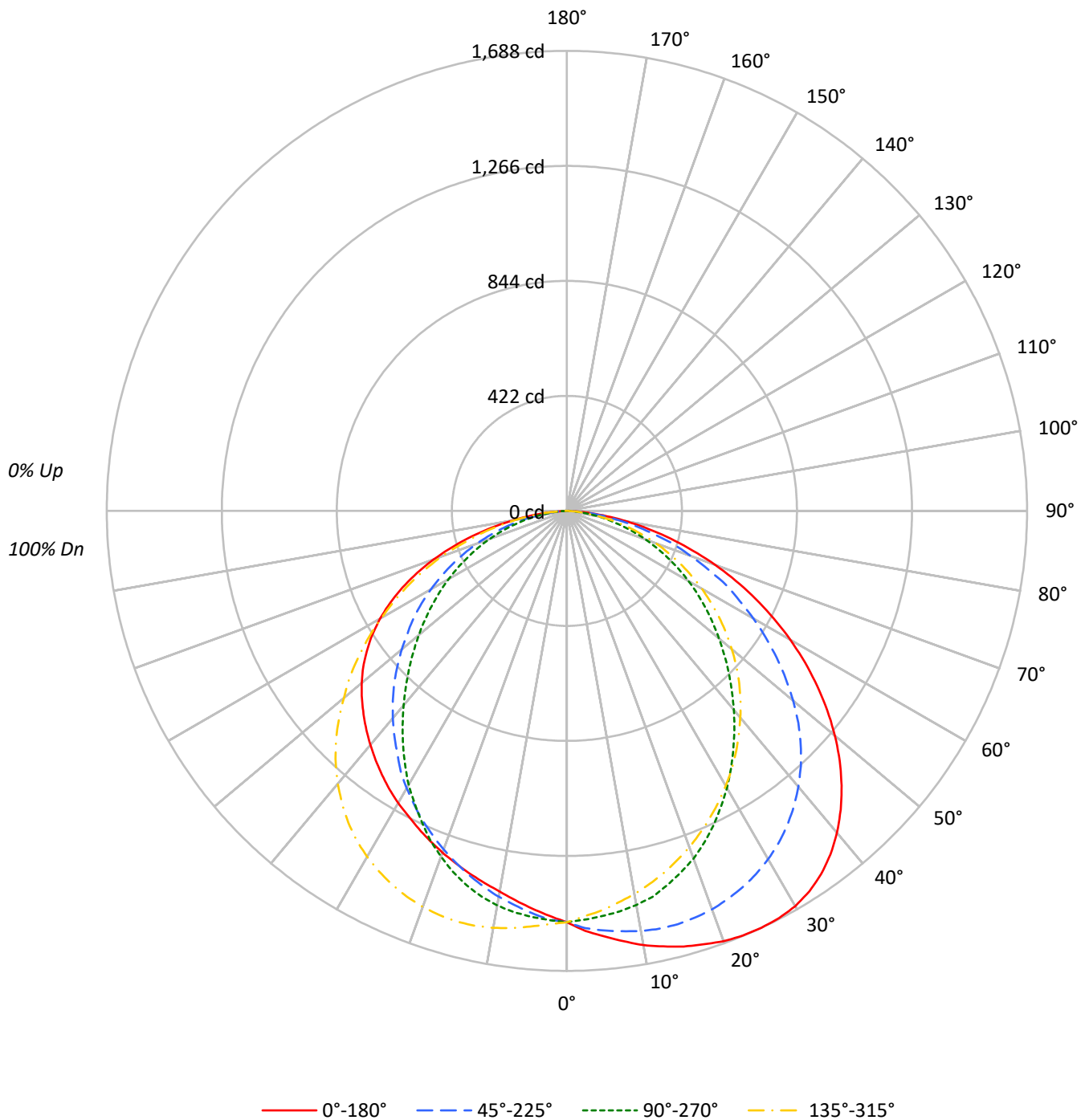
Lumens per Lamp: N/A
Luminaire Lumens: 4427.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4061	4061	4061	4061
5°	4233	4032	3956	4038
10°	4421	4011	3875	4017
15°	4610	3960	3838	3961
20°	4812	3888	3821	3866
25°	5011	3779	3820	3741
30°	5204	3648	3846	3608
35°	5343	3498	3884	3443
40°	5414	3347	3939	3272
45°	5424	3195	4015	3115
50°	5373	3049	4113	2968
55°	5262	2913	4205	2832
60°	5096	2772	4261	2700
65°	4869	2609	4239	2549
70°	4548	2418	4088	2374
75°	4092	2155	3751	2145
80°	3470	1805	3154	1833
85°	2411	1195	2001	1229

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	3.2
10°-20°	414.9	9.4
20°-30°	635.9	14.4
30°-40°	773.2	17.5
40°-50°	803.8	18.2
50°-60°	726.0	16.4
60°-70°	552.0	12.5
70°-80°	307.7	7.0
80°-90°	70.9	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°	1194.1	27.0
0°-40°	1967.2	44.4
0°-60°	3497.0	79.0
0°-90°	4427.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1509	1509	1509	1509	1509	
5°	1567	1493	1464	1495	1567	151
15°	1655	1422	1378	1422	1655	469
25°	1688	1273	1287	1260	1688	779
35°	1626	1065	1182	1048	1626	1016
45°	1425	840	1055	818	1425	1097
55°	1122	621	896	604	1122	1001
65°	765	410	666	400	765	756
75°	394	207	361	206	394	418
85°	78	39	65	40	78	98
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°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1542.6	1520.0	1520.4	1540.1	1525.0	1532.4	1511.2	1519.3	1516.9	1518.6	1501.4
5°	1566.9	1542.6	1542.2	1559.1	1542.2	1545.4	1518.6	1523.9	1516.2	1511.2	1492.6
7.5°	1592.6	1568.3	1565.8	1580.6	1558.4	1555.9	1526.4	1526.4	1512.3	1500.0	1482.4
10°	1617.9	1592.9	1589.7	1601.0	1573.5	1565.5	1529.5	1523.9	1505.3	1487.0	1467.9
12.5°	1636.9	1611.6	1609.1	1616.1	1585.2	1570.4	1529.5	1518.6	1491.2	1465.5	1450.7
15°	1654.9	1628.8	1622.1	1625.6	1590.1	1570.4	1524.6	1507.7	1472.5	1438.7	1421.5
17.5°	1667.5	1642.5	1635.9	1635.5	1592.6	1564.4	1514.1	1490.8	1448.6	1407.7	1390.5
20°	1680.2	1655.2	1646.8	1640.4	1591.9	1556.3	1498.6	1467.2	1418.0	1372.2	1357.8
22.5°	1686.5	1660.9	1651.7	1642.2	1587.3	1541.5	1479.6	1439.8	1383.5	1328.9	1316.9
25°	1687.6	1661.2	1651.3	1637.6	1578.1	1523.9	1454.9	1406.7	1343.7	1283.1	1272.9
27.5°	1684.8	1655.9	1646.1	1629.5	1564.4	1502.4	1425.7	1369.0	1301.4	1234.5	1223.6
30°	1674.9	1645.7	1636.2	1614.7	1545.0	1476.0	1393.7	1327.1	1254.6	1183.5	1174.0
32.5°	1655.2	1626.7	1619.0	1597.5	1523.9	1445.4	1356.3	1282.1	1202.9	1134.9	1120.8
35°	1626.4	1597.8	1592.9	1570.4	1494.3	1408.8	1315.5	1232.8	1148.0	1078.6	1064.9
37.5°	1588.7	1564.7	1557.4	1535.2	1459.5	1367.3	1268.7	1179.3	1092.0	1017.4	1008.9
40°	1541.2	1518.6	1513.0	1493.3	1419.0	1321.1	1218.0	1124.0	1034.2	964.9	952.9
42.5°	1487.0	1465.8	1462.7	1442.2	1369.0	1270.1	1163.1	1066.6	974.1	907.2	895.2
45°	1425.3	1404.9	1404.2	1384.9	1314.5	1213.4	1105.4	1008.5	915.3	845.9	839.6
47.5°	1357.4	1339.1	1339.1	1321.1	1253.6	1151.1	1045.9	948.0	856.1	794.9	783.6
50°	1283.5	1266.2	1261.0	1252.2	1186.3	1083.2	983.2	888.9	797.7	739.3	728.3
52.5°	1204.6	1189.8	1193.4	1177.2	1113.5	1012.4	919.8	822.3	738.9	685.7	674.8
55°	1121.5	1100.4	1103.6	1097.6	1037.4	939.6	848.7	767.4	681.2	631.2	621.0
57.5°	1035.3	1007.8	1019.1	1015.6	956.4	864.9	783.6	705.1	623.8	577.7	567.8
60°	946.9	920.5	932.2	929.0	873.4	790.3	716.4	643.5	566.8	524.9	515.0
62.5°	856.1	831.8	842.4	839.9	788.9	713.9	649.5	582.6	509.4	471.7	462.6
65°	764.6	741.4	750.9	749.1	701.9	644.9	580.8	519.6	451.6	418.9	409.8
67.5°	671.0	649.5	658.3	658.3	615.0	560.4	511.8	455.9	395.0	366.8	358.4
70°	578.0	558.0	565.7	565.0	528.4	484.0	442.1	392.2	337.6	314.4	307.3
72.5°	484.4	466.8	473.8	473.1	442.5	414.0	372.4	329.1	281.6	263.0	256.6
75°	393.6	377.0	383.7	383.0	358.0	331.3	303.4	267.5	226.7	213.7	207.3
77.5°	307.0	290.1	295.7	295.7	277.4	258.0	235.9	208.0	179.2	165.1	160.5
80°	223.9	215.8	213.0	213.3	201.0	188.3	177.1	150.3	129.2	119.7	116.5
82.5°	147.1	140.5	137.6	138.3	131.3	123.6	116.5	97.9	83.8	78.1	76.4
85°	78.1	73.2	70.8	72.5	71.1	66.9	63.4	50.7	41.9	39.8	38.7
87.5°	24.6	21.5	19.7	26.0	22.2	19.7	19.0	15.1	11.6	11.6	11.3
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°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1507.0	1507.0	1493.3	1490.1	1488.7	1490.5	1476.7	1474.3	1494.0	1487.3	1472.2
5°	1495.0	1494.3	1475.0	1471.5	1471.5	1469.3	1453.9	1450.3	1470.1	1464.4	1447.9
7.5°	1480.3	1478.1	1455.3	1452.8	1449.3	1447.9	1430.6	1428.2	1445.1	1441.5	1426.1
10°	1462.3	1460.2	1433.1	1431.3	1427.5	1424.6	1408.4	1406.7	1423.9	1418.3	1406.0
12.5°	1438.7	1434.9	1407.0	1405.3	1402.1	1401.1	1385.2	1384.5	1403.5	1397.9	1384.9
15°	1407.7	1404.6	1373.6	1374.3	1374.7	1374.7	1362.0	1361.3	1379.9	1377.5	1363.4
17.5°	1373.6	1369.4	1339.8	1341.9	1344.4	1347.2	1337.3	1339.1	1358.8	1355.6	1343.0
20°	1334.9	1330.7	1301.8	1307.8	1313.1	1318.7	1312.3	1317.3	1335.6	1334.2	1324.7
22.5°	1291.6	1287.4	1260.6	1269.8	1278.6	1289.1	1286.3	1291.9	1311.3	1310.9	1302.5
25°	1238.8	1239.8	1216.2	1227.5	1242.3	1257.1	1258.1	1267.3	1288.8	1286.6	1278.9
27.5°	1189.5	1190.9	1165.9	1184.9	1204.6	1223.6	1228.2	1240.9	1262.7	1261.0	1254.3
30°	1137.7	1139.5	1115.2	1141.3	1165.2	1188.4	1198.3	1215.5	1237.7	1237.7	1230.7
32.5°	1083.9	1087.1	1061.7	1096.6	1124.4	1151.5	1168.7	1186.7	1212.0	1211.3	1205.3
35°	1028.6	1032.1	1008.9	1053.3	1081.1	1114.2	1135.6	1159.6	1182.1	1182.4	1177.9
37.5°	972.3	976.5	955.4	1004.0	1035.7	1074.7	1102.2	1126.1	1151.1	1152.5	1148.3
40°	916.3	920.9	902.6	949.4	989.5	1033.2	1064.9	1093.0	1120.5	1121.2	1118.4
42.5°	860.3	865.3	851.5	897.3	942.7	989.5	1026.9	1058.9	1087.1	1088.8	1085.6
45°	805.8	810.0	800.2	850.1	893.8	944.8	987.8	1024.0	1052.6	1055.0	1054.0
47.5°	751.6	755.4	746.6	792.4	842.7	897.0	946.6	986.7	1017.0	1019.8	1019.1
50°	698.4	701.6	692.1	740.0	789.9	847.7	899.4	945.9	979.7	982.5	982.1
52.5°	645.6	648.8	640.7	691.0	736.4	797.3	853.7	904.0	937.4	941.7	942.4
55°	594.6	596.0	589.6	637.9	681.9	745.6	810.4	859.3	892.7	896.3	898.4
57.5°	543.5	543.9	538.6	584.7	627.0	692.1	760.0	811.4	843.1	846.6	849.8
60°	492.8	492.5	486.5	531.2	571.7	636.1	706.9	757.9	788.5	791.7	795.9
62.5°	442.5	441.4	436.2	477.3	515.4	579.1	650.2	699.5	728.7	730.8	736.4
65°	392.5	391.5	386.5	424.5	459.0	519.9	589.6	636.5	662.9	665.7	664.6
67.5°	343.2	341.1	337.2	371.4	402.7	459.0	525.9	570.6	592.5	594.9	601.6
70°	293.9	291.5	282.7	318.9	346.4	396.7	459.0	498.8	517.1	519.6	518.5
72.5°	245.4	242.9	233.4	266.8	290.1	334.1	389.7	422.8	438.6	440.7	440.7
75°	198.2	196.8	190.8	216.1	235.5	271.4	318.6	346.0	358.4	360.8	360.1
77.5°	152.8	151.7	145.7	167.6	182.7	209.5	247.5	268.9	278.1	280.9	286.9
80°	109.5	109.1	99.6	121.1	127.8	150.3	178.1	194.7	199.6	203.5	207.7
82.5°	70.1	70.4	60.9	79.2	82.0	96.5	113.7	123.9	127.4	130.6	133.8
85°	34.1	35.6	30.3	41.9	42.2	49.6	57.0	60.9	62.3	64.8	67.6
87.5°	8.8	10.2	5.6	12.0	10.6	13.7	15.8	16.9	16.5	18.3	19.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1477.1	1488.4	1482.7	1501.0	1508.1	1496.8	1516.5	1516.9	1502.8	1519.3	1528.5
5°	1454.2	1465.8	1462.3	1481.3	1490.1	1480.3	1504.2	1508.8	1495.0	1513.7	1528.5
7.5°	1431.0	1444.7	1440.1	1459.5	1470.1	1462.3	1488.0	1495.4	1484.8	1505.3	1525.0
10°	1410.9	1422.5	1417.6	1438.0	1447.2	1440.8	1466.2	1479.9	1470.1	1495.0	1518.6
12.5°	1391.2	1400.7	1395.1	1412.0	1420.8	1412.7	1443.7	1456.3	1449.3	1475.3	1505.6
15°	1365.9	1376.4	1368.7	1383.8	1390.5	1383.5	1408.8	1430.6	1421.8	1450.3	1483.8
17.5°	1346.5	1352.5	1341.9	1353.9	1357.8	1348.3	1374.0	1395.4	1389.1	1420.1	1458.8
20°	1325.0	1329.9	1315.2	1321.9	1321.5	1309.5	1333.1	1354.2	1350.0	1384.2	1428.2
22.5°	1301.1	1303.5	1286.3	1287.7	1287.0	1267.3	1288.4	1309.9	1308.1	1342.6	1391.9
25°	1275.7	1276.1	1253.9	1253.2	1245.5	1222.2	1240.9	1265.2	1259.9	1297.2	1349.0
27.5°	1250.7	1247.2	1220.5	1214.1	1201.8	1174.0	1190.5	1212.4	1209.2	1245.8	1303.2
30°	1224.0	1219.4	1186.7	1175.1	1157.1	1125.1	1138.8	1159.2	1161.0	1193.0	1253.2
32.5°	1198.6	1187.0	1150.8	1133.9	1111.3	1074.0	1081.4	1102.2	1105.0	1137.4	1199.3
35°	1165.9	1158.2	1113.5	1084.6	1062.4	1021.6	1029.3	1043.8	1048.0	1079.7	1142.7
37.5°	1134.9	1122.6	1075.1	1039.9	1011.4	968.4	970.5	985.3	989.5	1021.6	1083.9
40°	1102.9	1085.3	1034.2	993.1	960.3	915.3	912.8	928.3	931.5	962.8	1019.1
42.5°	1068.7	1047.6	990.2	945.2	907.5	861.8	856.8	870.2	873.7	904.4	959.6
45°	1034.2	1008.9	945.2	895.9	854.7	807.9	803.0	813.2	818.5	847.3	900.5
47.5°	997.6	968.1	898.7	843.8	801.2	754.4	748.4	758.6	762.8	791.4	841.7
50°	959.3	923.4	850.8	790.3	748.1	701.9	693.1	705.1	709.0	735.7	785.0
52.5°	917.0	877.2	799.8	736.4	694.2	650.2	639.6	651.2	655.8	681.9	727.3
55°	872.3	829.4	748.4	686.8	641.0	598.1	589.3	593.9	603.7	628.4	670.6
57.5°	822.0	779.4	694.2	631.5	587.5	546.3	538.9	543.2	552.3	576.3	614.3
60°	768.5	723.4	638.9	576.3	533.7	494.6	487.9	491.8	501.6	523.5	558.7
62.5°	715.7	665.0	581.9	519.6	480.9	444.6	442.8	441.4	450.6	471.7	502.7
65°	651.6	603.0	522.4	463.3	428.1	395.3	388.3	391.5	400.3	419.6	452.0
67.5°	583.0	538.9	461.5	406.9	375.6	346.4	340.4	341.8	351.0	367.9	396.0
70°	510.1	471.4	399.2	350.3	323.9	296.4	292.5	292.9	301.7	316.5	341.1
72.5°	433.7	398.8	336.2	294.3	272.5	252.8	249.2	245.0	253.1	265.8	286.9
75°	355.9	325.3	273.5	239.4	222.1	205.6	202.4	198.2	206.3	217.2	233.7
77.5°	277.4	252.8	212.6	186.2	172.8	160.5	157.7	153.1	161.2	169.3	182.3
80°	200.7	182.7	158.8	131.0	126.4	118.3	115.5	110.5	118.3	123.6	133.4
82.5°	129.5	117.6	103.8	84.5	83.8	77.8	76.4	70.8	77.8	81.0	88.4
85°	65.5	59.8	56.3	42.9	44.4	40.5	40.1	34.1	39.8	41.2	45.4
87.5°	18.7	19.7	17.6	10.6	13.4	12.7	12.7	9.2	12.7	12.7	14.4
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: P838028

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4LO-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1510.5	1516.5	1517.9	1517.6	1521.4	1542.6	1535.5	1542.6
5°	1514.1	1527.4	1531.0	1535.9	1542.2	1566.2	1558.4	1566.9
7.5°	1516.2	1536.2	1544.0	1553.5	1563.7	1590.4	1584.1	1592.6
10°	1516.2	1542.2	1553.5	1569.3	1583.1	1614.0	1608.0	1617.9
12.5°	1509.8	1543.3	1559.1	1581.3	1598.9	1632.3	1629.9	1636.9
15°	1496.8	1538.0	1559.8	1588.3	1610.2	1647.5	1646.4	1654.9
17.5°	1479.2	1528.8	1555.2	1591.1	1618.6	1660.5	1663.0	1667.5
20°	1457.0	1511.6	1546.1	1590.1	1624.6	1670.7	1673.9	1680.2
22.5°	1427.8	1490.8	1532.4	1585.5	1625.3	1674.9	1680.6	1686.5
25°	1393.3	1465.8	1514.4	1576.7	1621.8	1674.6	1682.3	1687.6
27.5°	1353.9	1433.4	1491.5	1562.6	1611.9	1668.9	1678.5	1684.8
30°	1308.1	1398.9	1465.5	1544.3	1598.5	1658.4	1668.6	1674.9
32.5°	1261.0	1360.9	1434.5	1520.7	1579.2	1641.5	1650.3	1655.2
35°	1209.6	1314.8	1397.2	1490.5	1554.2	1614.4	1621.1	1626.4
37.5°	1153.6	1264.8	1354.6	1456.3	1519.0	1576.7	1582.7	1588.7
40°	1095.9	1212.4	1306.7	1414.4	1477.1	1530.6	1536.9	1541.2
42.5°	1037.8	1154.3	1255.7	1365.2	1427.5	1478.9	1482.7	1487.0
45°	979.0	1094.1	1198.3	1310.6	1372.2	1420.4	1421.8	1425.3
47.5°	919.1	1031.8	1135.3	1248.3	1309.2	1353.2	1354.6	1357.4
50°	858.9	969.5	1068.0	1181.0	1240.5	1287.0	1280.7	1283.5
52.5°	799.8	904.0	1004.7	1108.5	1167.3	1208.5	1210.3	1204.6
55°	741.7	839.9	932.5	1032.5	1088.5	1120.5	1119.4	1121.5
57.5°	682.9	775.2	860.0	951.5	1006.1	1036.4	1042.7	1035.3
60°	623.1	709.7	785.7	868.4	921.2	946.6	954.0	946.9
62.5°	563.6	643.1	712.1	784.3	833.2	864.6	863.9	856.1
65°	504.1	576.3	637.9	699.1	741.7	773.0	771.6	764.6
67.5°	449.2	508.7	563.9	613.6	650.5	672.0	679.4	671.0
70°	388.6	440.0	488.6	528.4	559.0	578.4	585.4	578.0
72.5°	328.1	371.7	405.9	444.3	467.8	484.0	491.4	484.4
75°	268.2	304.1	332.0	361.9	378.4	392.2	400.6	393.6
77.5°	210.2	238.0	260.1	282.0	301.0	304.1	311.5	307.0
80°	154.9	175.0	191.1	205.6	219.3	220.7	226.7	223.9
82.5°	103.1	116.5	120.7	135.9	144.7	143.3	149.3	147.1
85°	54.6	62.7	70.1	74.6	79.6	75.0	80.3	78.1
87.5°	18.3	19.4	16.9	23.9	26.4	22.5	25.7	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)