

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: P838075

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-1HI-30-120-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: P838075
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-LD4-1HI-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

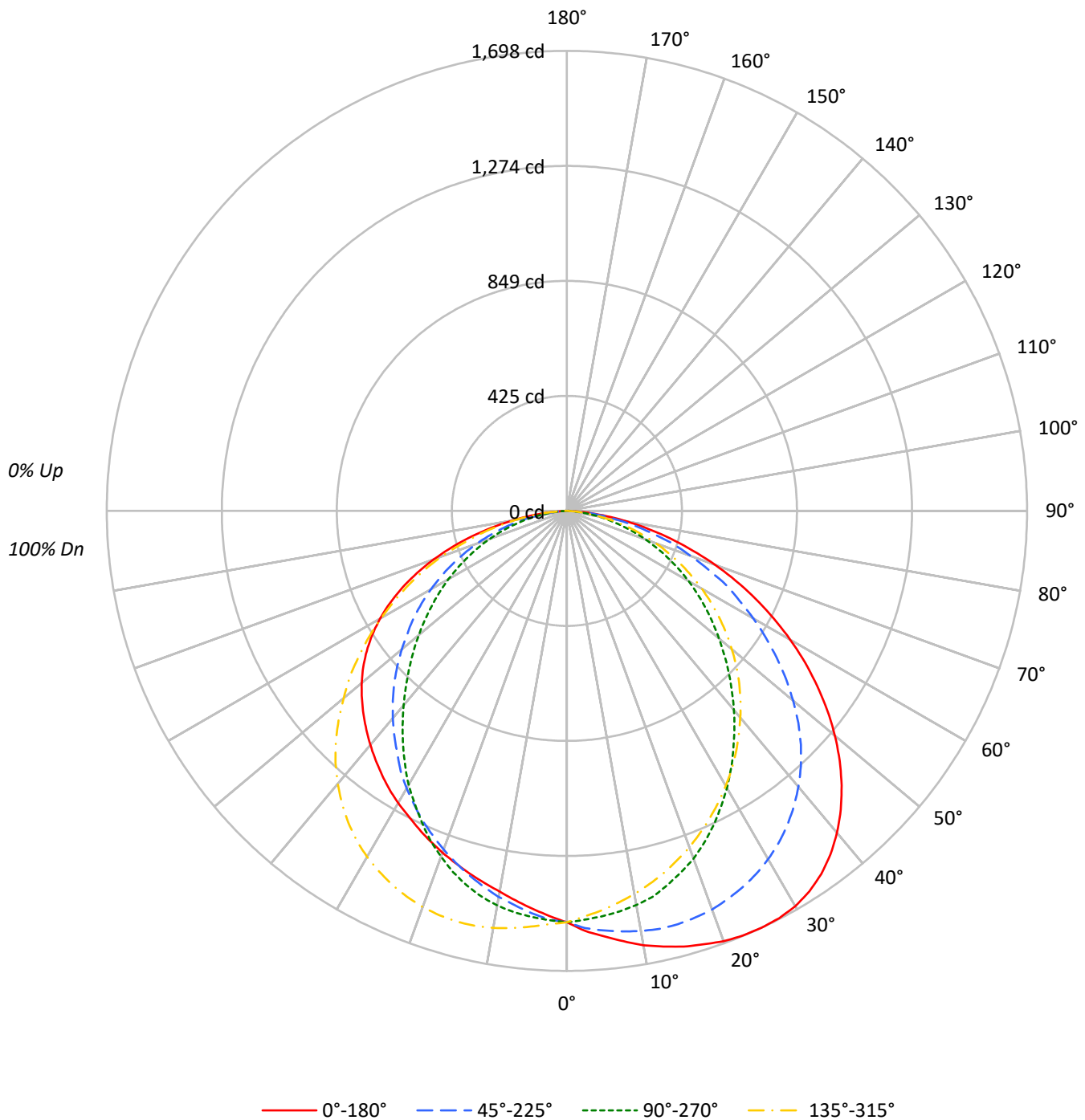
Lumens per Lamp: N/A
Luminaire Lumens: 4454.4 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2043	2043	2043	2043
5°	2129	2028	1990	2031
10°	2224	2018	1949	2021
15°	2319	1992	1930	1992
20°	2420	1956	1922	1945
25°	2521	1901	1922	1882
30°	2618	1835	1935	1815
35°	2688	1760	1954	1732
40°	2723	1684	1981	1646
45°	2729	1607	2020	1567
50°	2703	1534	2069	1493
55°	2647	1465	2115	1425
60°	2564	1394	2143	1358
65°	2449	1312	2132	1282
70°	2288	1216	2056	1194
75°	2058	1084	1887	1079
80°	1745	908	1586	922
85°	1213	602	1007	618

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.2
10°-20°	417.4	9.4
20°-30°	639.7	14.4
30°-40°	777.9	17.5
40°-50°	808.6	18.2
50°-60°	730.4	16.4
60°-70°	555.3	12.5
70°-80°	309.6	7.0
80°-90°	71.3	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°	1201.3	27.0
0°-40°	1979.2	44.4
0°-60°	3518.2	79.0
0°-90°	4454.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1518	1518	1518	1518	1518	
5°	1576	1502	1473	1504	1576	152
15°	1665	1430	1386	1430	1665	472
25°	1698	1281	1294	1268	1698	784
35°	1636	1071	1190	1054	1636	1022
45°	1434	845	1061	823	1434	1104
55°	1128	625	902	607	1128	1007
65°	769	412	670	403	769	760
75°	396	209	363	208	396	421
85°	79	39	65	40	79	99
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°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	1551.9	1529.2	1529.6	1549.4	1534.2	1541.6	1520.4	1528.5	1526.1	1527.8	1510.5
5°	1576.4	1551.9	1551.6	1568.6	1551.6	1554.7	1527.8	1533.1	1525.4	1520.4	1501.6
7.5°	1602.2	1577.8	1575.3	1590.2	1567.9	1565.4	1535.6	1535.6	1521.5	1509.1	1491.4
10°	1627.7	1602.6	1599.4	1610.7	1583.1	1574.9	1538.8	1533.1	1514.4	1496.0	1476.8
12.5°	1646.8	1621.3	1618.9	1625.9	1594.8	1579.9	1538.8	1527.8	1500.2	1474.4	1459.5
15°	1664.9	1638.7	1632.0	1635.5	1599.7	1579.9	1533.9	1516.9	1481.4	1447.4	1430.1
17.5°	1677.6	1652.5	1645.8	1645.4	1602.2	1573.9	1523.2	1499.9	1457.4	1416.3	1398.9
20°	1690.4	1665.2	1656.7	1650.4	1601.5	1565.7	1507.6	1476.1	1426.5	1380.5	1366.0
22.5°	1696.8	1670.9	1661.7	1652.1	1596.9	1550.9	1488.5	1448.5	1391.8	1336.9	1324.9
25°	1697.8	1671.3	1661.4	1647.5	1587.7	1533.1	1463.7	1415.2	1351.8	1290.9	1280.6
27.5°	1695.0	1666.0	1656.0	1639.4	1573.9	1511.5	1434.3	1377.3	1309.3	1242.0	1231.0
30°	1685.1	1655.7	1646.1	1624.5	1554.4	1485.0	1402.1	1335.2	1262.2	1190.7	1181.1
32.5°	1665.2	1636.6	1628.8	1607.2	1533.1	1454.2	1364.6	1289.8	1210.2	1141.8	1127.6
35°	1636.2	1607.5	1602.6	1579.9	1503.4	1417.3	1323.5	1240.3	1154.9	1085.1	1071.3
37.5°	1598.3	1574.2	1566.8	1544.5	1468.3	1375.5	1276.4	1186.4	1098.6	1023.5	1015.0
40°	1550.5	1527.8	1522.2	1502.3	1427.6	1329.2	1225.4	1130.8	1040.5	970.7	958.7
42.5°	1496.0	1474.7	1471.5	1451.0	1377.3	1277.8	1170.1	1073.1	980.0	912.7	900.6
45°	1434.0	1413.4	1412.7	1393.3	1322.4	1220.8	1112.1	1014.7	920.8	851.0	844.7
47.5°	1365.6	1347.2	1347.2	1329.2	1261.2	1158.1	1052.2	953.7	861.3	799.7	788.4
50°	1291.3	1273.9	1268.6	1259.7	1193.5	1089.7	989.2	894.2	802.5	743.7	732.8
52.5°	1211.9	1197.1	1200.6	1184.3	1120.2	1018.6	925.4	827.3	743.4	689.9	678.9
55°	1128.3	1107.1	1110.3	1104.3	1043.7	945.2	853.9	772.1	685.3	635.0	624.7
57.5°	1041.6	1014.0	1025.3	1021.7	962.2	870.2	788.4	709.4	627.6	581.2	571.3
60°	952.7	926.1	937.8	934.6	878.7	795.1	720.7	647.4	570.2	528.0	518.1
62.5°	861.3	836.9	847.5	845.0	793.7	718.2	653.4	586.1	512.5	474.6	465.4
65°	769.2	745.9	755.4	753.6	706.2	648.8	584.4	522.7	454.4	421.4	412.2
67.5°	675.0	653.4	662.3	662.3	618.7	563.8	514.9	458.6	397.4	369.0	360.5
70°	581.5	561.3	569.1	568.4	531.6	487.0	444.8	394.5	339.6	316.3	309.2
72.5°	487.3	469.6	476.7	476.0	445.2	416.5	374.7	331.1	283.3	264.6	258.2
75°	395.9	379.3	386.0	385.3	360.2	333.3	305.3	269.2	228.1	215.0	208.6
77.5°	308.8	291.8	297.5	297.5	279.1	259.6	237.3	209.3	180.3	166.1	161.5
80°	225.2	217.1	214.3	214.6	202.2	189.5	178.1	151.2	130.0	120.4	117.2
82.5°	148.0	141.3	138.5	139.2	132.1	124.3	117.2	98.5	84.3	78.6	76.9
85°	78.6	73.7	71.2	73.0	71.5	67.3	63.7	51.0	42.1	40.0	39.0
87.5°	24.8	21.6	19.8	26.2	22.3	19.8	19.1	15.2	11.7	11.7	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°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	1516.1	1516.1	1502.3	1499.1	1497.7	1499.5	1485.7	1483.2	1503.0	1496.3	1481.1
5°	1504.1	1503.4	1483.9	1480.4	1480.4	1478.3	1462.7	1459.1	1479.0	1473.3	1456.6
7.5°	1489.2	1487.1	1464.1	1461.6	1458.1	1456.6	1439.3	1436.8	1453.8	1450.3	1434.7
10°	1471.2	1469.0	1441.8	1440.0	1436.1	1433.3	1417.0	1415.2	1432.6	1426.9	1414.5
12.5°	1447.4	1443.5	1415.6	1413.8	1410.6	1409.5	1393.6	1392.9	1412.0	1406.4	1393.3
15°	1416.3	1413.1	1381.9	1382.6	1383.0	1383.0	1370.2	1369.5	1388.3	1385.8	1371.6
17.5°	1381.9	1377.7	1347.9	1350.0	1352.5	1355.4	1345.4	1347.2	1367.0	1363.9	1351.1
20°	1343.0	1338.7	1309.7	1315.7	1321.0	1326.7	1320.3	1325.3	1343.7	1342.3	1332.7
22.5°	1299.4	1295.2	1268.2	1277.4	1286.3	1296.9	1294.1	1299.8	1319.2	1318.9	1310.4
25°	1246.3	1247.3	1223.6	1234.9	1249.8	1264.7	1265.8	1275.0	1296.6	1294.4	1286.7
27.5°	1196.7	1198.1	1173.0	1192.1	1211.9	1231.0	1235.7	1248.4	1270.4	1268.6	1261.9
30°	1144.6	1146.4	1122.0	1148.2	1172.3	1195.6	1205.6	1222.9	1245.2	1245.2	1238.1
32.5°	1090.4	1093.6	1068.1	1103.2	1131.2	1158.4	1175.8	1193.9	1219.4	1218.7	1212.6
35°	1034.8	1038.4	1015.0	1059.6	1087.6	1120.9	1142.5	1166.6	1189.3	1189.6	1185.0
37.5°	978.2	982.4	961.2	1010.1	1041.9	1081.2	1108.9	1132.9	1158.1	1159.5	1155.3
40°	921.9	926.5	908.1	955.2	995.5	1039.5	1071.3	1099.7	1127.3	1128.0	1125.2
42.5°	865.6	870.5	856.7	902.7	948.4	995.5	1033.1	1065.3	1093.6	1095.4	1092.2
45°	810.7	814.9	805.0	855.3	899.2	950.6	993.8	1030.2	1058.9	1061.4	1060.3
47.5°	756.1	760.0	751.2	797.2	847.9	902.4	952.3	992.7	1023.2	1026.0	1025.3
50°	702.6	705.8	696.3	744.4	794.7	852.8	904.9	951.6	985.6	988.5	988.1
52.5°	649.5	652.7	644.6	695.2	740.9	802.2	858.8	909.5	943.1	947.4	948.1
55°	598.2	599.6	593.2	641.7	686.0	750.1	815.3	864.5	898.1	901.7	903.8
57.5°	546.8	547.2	541.9	588.3	630.8	696.3	764.6	816.3	848.2	851.7	854.9
60°	495.8	495.5	489.4	534.4	575.2	640.0	711.1	762.5	793.3	796.5	800.7
62.5°	445.2	444.1	438.8	480.2	518.5	582.6	654.1	703.7	733.1	735.2	740.9
65°	394.9	393.8	388.9	427.1	461.8	523.1	593.2	640.3	666.9	669.7	668.6
67.5°	345.3	343.2	339.3	373.6	405.2	461.8	529.1	574.1	596.0	598.5	605.3
70°	295.7	293.2	284.4	320.9	348.5	399.1	461.8	501.8	520.3	522.7	521.7
72.5°	246.8	244.4	234.8	268.5	291.8	336.1	392.1	425.3	441.3	443.4	443.4
75°	199.4	198.0	192.0	217.5	236.9	273.1	320.5	348.1	360.5	363.0	362.3
77.5°	153.7	152.6	146.6	168.6	183.8	210.7	249.0	270.6	279.8	282.6	288.6
80°	110.1	109.8	100.2	121.8	128.6	151.2	179.2	195.8	200.8	204.7	209.0
82.5°	70.5	70.8	61.3	79.7	82.5	97.0	114.4	124.7	128.2	131.4	134.6
85°	34.4	35.8	30.5	42.1	42.5	49.9	57.4	61.3	62.7	65.2	68.0
87.5°	8.9	10.3	5.7	12.0	10.6	13.8	15.9	17.0	16.6	18.4	19.5
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°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	1486.0	1497.4	1491.7	1510.1	1517.2	1505.9	1525.7	1526.1	1511.9	1528.5	1537.7
5°	1463.0	1474.7	1471.2	1490.3	1499.1	1489.2	1513.3	1517.9	1504.1	1522.9	1537.7
7.5°	1439.6	1453.5	1448.9	1468.3	1479.0	1471.2	1497.0	1504.5	1493.8	1514.4	1534.2
10°	1419.5	1431.1	1426.2	1446.7	1455.9	1449.6	1475.1	1488.9	1479.0	1504.1	1527.8
12.5°	1399.6	1409.2	1403.5	1420.5	1429.4	1421.2	1452.4	1465.1	1458.1	1484.3	1514.7
15°	1374.1	1384.8	1377.0	1392.2	1398.9	1391.8	1417.3	1439.3	1430.4	1459.1	1492.8
17.5°	1354.7	1360.7	1350.0	1362.1	1366.0	1356.4	1382.3	1403.9	1397.5	1428.7	1467.6
20°	1333.0	1338.0	1323.1	1329.9	1329.5	1317.5	1341.2	1362.4	1358.2	1392.5	1436.8
22.5°	1309.0	1311.4	1294.1	1295.5	1294.8	1275.0	1296.2	1317.8	1316.0	1350.8	1400.3
25°	1283.5	1283.8	1261.5	1260.8	1253.0	1229.6	1248.4	1272.8	1267.5	1305.1	1357.1
27.5°	1258.3	1254.8	1227.9	1221.5	1209.1	1181.1	1197.8	1219.7	1216.5	1253.4	1311.1
30°	1231.4	1226.8	1193.9	1182.2	1164.1	1131.9	1145.7	1166.2	1168.0	1200.2	1260.8
32.5°	1205.9	1194.2	1157.7	1140.7	1118.1	1080.5	1088.0	1108.9	1111.7	1144.3	1206.6
35°	1173.0	1165.2	1120.2	1091.2	1068.8	1027.8	1035.6	1050.1	1054.3	1086.2	1149.6
37.5°	1141.8	1129.4	1081.6	1046.2	1017.5	974.3	976.4	991.3	995.5	1027.8	1090.4
40°	1109.6	1091.9	1040.5	999.1	966.1	920.8	918.3	933.9	937.1	968.6	1025.3
42.5°	1075.2	1054.0	996.2	950.9	913.0	867.0	862.0	875.5	879.0	909.8	965.4
45°	1040.5	1015.0	950.9	901.3	859.9	812.8	807.8	818.1	823.4	852.5	905.9
47.5°	1003.7	973.9	904.2	848.9	806.1	759.0	752.9	763.2	767.5	796.1	846.8
50°	965.1	929.0	856.0	795.1	752.6	706.2	697.3	709.4	713.3	740.2	789.8
52.5°	922.6	882.6	804.6	740.9	698.4	654.1	643.5	655.2	659.8	686.0	731.7
55°	877.6	834.4	752.9	691.0	644.9	601.7	592.9	597.5	607.4	632.2	674.7
57.5°	827.0	784.1	698.4	635.4	591.1	549.7	542.2	546.5	555.7	579.8	618.0
60°	773.1	727.8	642.8	579.8	536.9	497.6	490.9	494.8	504.7	526.6	562.0
62.5°	720.0	669.0	585.4	522.7	483.8	447.3	445.5	444.1	453.3	474.6	505.7
65°	655.5	606.7	525.6	466.1	430.7	397.7	390.6	393.8	402.7	422.2	454.7
67.5°	586.5	542.2	464.3	409.4	377.9	348.5	342.5	343.9	353.1	370.1	398.4
70°	513.2	474.2	401.6	352.4	325.8	298.2	294.3	294.7	303.5	318.4	343.2
72.5°	436.3	401.3	338.2	296.1	274.1	254.3	250.7	246.5	254.6	267.4	288.6
75°	358.1	327.2	275.2	240.8	223.5	206.8	203.6	199.4	207.5	218.5	235.2
77.5°	279.1	254.3	213.9	187.3	173.9	161.5	158.7	154.1	162.2	170.3	183.5
80°	201.9	183.8	159.7	131.7	127.1	119.0	116.2	111.2	119.0	124.3	134.2
82.5°	130.3	118.3	104.5	85.0	84.3	78.3	76.9	71.2	78.3	81.5	88.9
85°	65.9	60.2	56.7	43.2	44.6	40.7	40.4	34.4	40.0	41.4	45.7
87.5°	18.8	19.8	17.7	10.6	13.5	12.7	12.7	9.2	12.7	12.7	14.5
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: P838075

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-1HI-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	1519.7	1525.7	1527.1	1526.8	1530.7	1551.9	1544.8	1551.9
5°	1523.2	1536.7	1540.2	1545.2	1551.6	1575.6	1567.9	1576.4
7.5°	1525.4	1545.5	1553.3	1562.9	1573.2	1600.1	1593.7	1602.2
10°	1525.4	1551.6	1562.9	1578.8	1592.6	1623.8	1617.8	1627.7
12.5°	1519.0	1552.6	1568.6	1590.9	1608.6	1642.2	1639.7	1646.8
15°	1505.9	1547.3	1569.3	1598.0	1619.9	1657.5	1656.4	1664.9
17.5°	1488.2	1538.1	1564.7	1600.8	1628.4	1670.6	1673.0	1677.6
20°	1465.9	1520.8	1555.5	1599.7	1634.4	1680.8	1684.0	1690.4
22.5°	1436.5	1499.9	1541.6	1595.1	1635.1	1685.1	1690.7	1696.8
25°	1401.8	1474.7	1523.6	1586.3	1631.6	1684.7	1692.5	1697.8
27.5°	1362.1	1442.1	1500.6	1572.1	1621.7	1679.1	1688.6	1695.0
30°	1316.0	1407.4	1474.4	1553.7	1608.2	1668.4	1678.7	1685.1
32.5°	1268.6	1369.2	1443.2	1530.0	1588.7	1651.4	1660.3	1665.2
35°	1216.9	1322.8	1405.6	1499.5	1563.6	1624.2	1630.9	1636.2
37.5°	1160.6	1272.5	1362.8	1465.1	1528.2	1586.3	1592.3	1598.3
40°	1102.5	1219.7	1314.6	1423.0	1486.0	1539.9	1546.2	1550.5
42.5°	1044.1	1161.3	1263.3	1373.4	1436.1	1487.8	1491.7	1496.0
45°	984.9	1100.7	1205.6	1318.5	1380.5	1429.0	1430.4	1434.0
47.5°	924.7	1038.0	1142.2	1255.8	1317.1	1361.4	1362.8	1365.6
50°	864.1	975.3	1074.5	1188.2	1248.0	1294.8	1288.4	1291.3
52.5°	804.6	909.5	1010.8	1115.2	1174.4	1215.8	1217.6	1211.9
55°	746.2	845.0	938.2	1038.7	1095.1	1127.3	1126.2	1128.3
57.5°	687.1	779.9	865.2	957.3	1012.2	1042.6	1049.0	1041.6
60°	626.9	714.0	790.5	873.7	926.8	952.3	959.8	952.7
62.5°	567.0	647.0	716.5	789.1	838.3	869.8	869.1	861.3
65°	507.2	579.8	641.7	703.4	746.2	777.7	776.3	769.2
67.5°	451.9	511.8	567.4	617.3	654.5	676.1	683.5	675.0
70°	391.0	442.7	491.6	531.6	562.4	581.9	589.0	581.5
72.5°	330.1	374.0	408.3	446.9	470.7	487.0	494.4	487.3
75°	269.9	306.0	334.0	364.1	380.7	394.5	403.0	395.9
77.5°	211.4	239.4	261.7	283.7	302.8	306.0	313.4	308.8
80°	155.8	176.0	192.3	206.8	220.6	222.1	228.1	225.2
82.5°	103.8	117.2	121.5	136.7	145.6	144.1	150.2	148.0
85°	54.9	63.0	70.5	75.1	80.0	75.4	80.7	78.6
87.5°	18.4	19.5	17.0	24.1	26.6	22.7	25.9	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)