

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: P837955

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-27-120-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: P837955
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-LD4-3HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

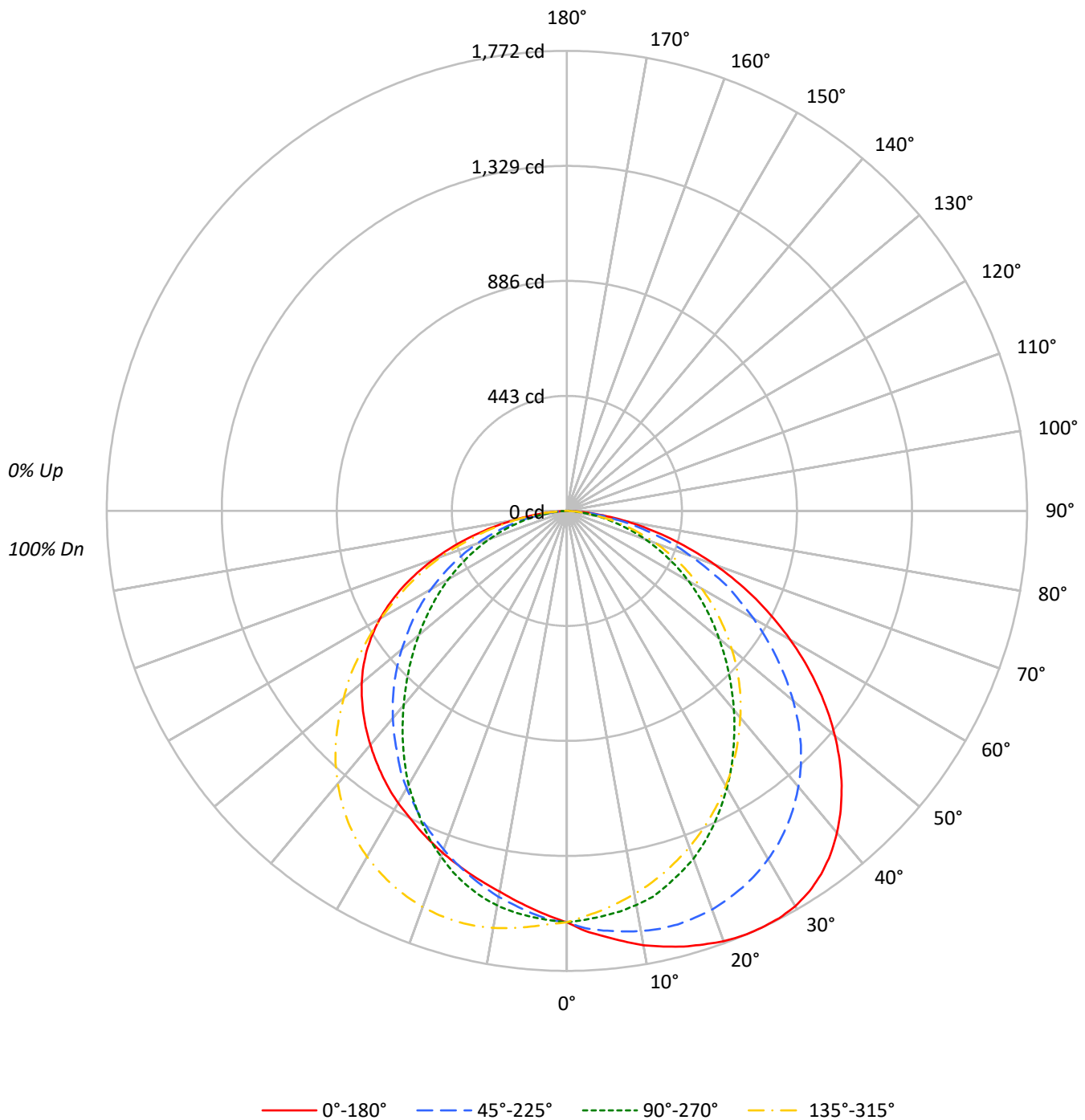
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.9 lumens
Efficiency: N/A
Efficacy: 70.4 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): 66
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°	4264	4264	4264	4264
5°	4444	4233	4153	4240
10°	4642	4212	4069	4218
15°	4841	4158	4029	4159
20°	5052	4082	4012	4059
25°	5261	3969	4011	3928
30°	5465	3830	4038	3788
35°	5610	3673	4079	3615
40°	5684	3515	4135	3436
45°	5695	3355	4216	3271
50°	5642	3201	4319	3116
55°	5525	3059	4415	2974
60°	5351	2911	4474	2835
65°	5112	2739	4451	2676
70°	4775	2539	4293	2493
75°	4296	2263	3939	2252
80°	3643	1895	3310	1925
85°	2535	1257	2100	1291

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.2
10°-20°	435.7	9.4
20°-30°	667.7	14.4
30°-40°	811.8	17.5
40°-50°	843.9	18.2
50°-60°	762.3	16.4
60°-70°	579.6	12.5
70°-80°	323.1	7.0
80°-90°	74.4	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°	1253.8	27.0
0°-40°	2065.6	44.4
0°-60°	3671.9	79.0
0°-90°	4648.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1585	1585	1585	1585	1585	
5°	1645	1567	1538	1570	1645	159
15°	1738	1492	1446	1493	1738	493
25°	1772	1337	1351	1323	1772	818
35°	1708	1118	1242	1100	1708	1067
45°	1497	882	1108	859	1497	1152
55°	1178	652	941	634	1178	1051
65°	803	430	699	420	803	793
75°	413	218	379	217	413	439
85°	82	41	68	42	82	103
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°	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6
2.5°	1619.7	1596.0	1596.4	1617.1	1601.2	1609.0	1586.8	1595.3	1592.7	1594.6	1576.4
5°	1645.2	1619.7	1619.3	1637.1	1619.3	1622.6	1594.6	1600.1	1592.0	1586.8	1567.2
7.5°	1672.2	1646.7	1644.1	1659.6	1636.3	1633.7	1602.7	1602.7	1587.9	1575.0	1556.5
10°	1698.8	1672.5	1669.2	1681.0	1652.2	1643.7	1606.0	1600.1	1580.5	1561.3	1541.3
12.5°	1718.7	1692.1	1689.5	1696.9	1664.4	1648.9	1606.0	1594.6	1565.7	1538.7	1523.2
15°	1737.6	1710.2	1703.2	1706.9	1669.6	1648.9	1600.8	1583.1	1546.1	1510.6	1492.5
17.5°	1750.9	1724.7	1717.6	1717.3	1672.2	1642.6	1589.7	1565.4	1521.0	1478.1	1460.0
20°	1764.2	1738.0	1729.1	1722.4	1671.4	1634.1	1573.5	1540.6	1488.8	1440.8	1425.6
22.5°	1770.9	1743.9	1734.3	1724.3	1666.6	1618.6	1553.5	1511.8	1452.6	1395.3	1382.8
25°	1772.0	1744.3	1733.9	1719.5	1657.0	1600.1	1527.7	1477.0	1410.9	1347.3	1336.6
27.5°	1769.0	1738.7	1728.4	1711.0	1642.6	1577.6	1497.0	1437.5	1366.5	1296.3	1284.8
30°	1758.7	1728.0	1718.0	1695.5	1622.3	1549.8	1463.3	1393.5	1317.3	1242.7	1232.7
32.5°	1738.0	1708.0	1699.9	1677.3	1600.1	1517.7	1424.2	1346.2	1263.0	1191.7	1176.9
35°	1707.7	1677.7	1672.5	1648.9	1569.0	1479.2	1381.3	1294.4	1205.3	1132.5	1118.1
37.5°	1668.1	1643.0	1635.2	1611.9	1532.5	1435.6	1332.1	1238.2	1146.6	1068.2	1059.3
40°	1618.2	1594.6	1588.6	1567.9	1490.0	1387.2	1278.9	1180.2	1086.0	1013.1	1000.6
42.5°	1561.3	1539.1	1535.8	1514.3	1437.5	1333.6	1221.2	1120.0	1022.7	952.5	940.0
45°	1496.6	1475.2	1474.4	1454.1	1380.2	1274.1	1160.6	1059.0	961.0	888.2	881.6
47.5°	1425.3	1406.0	1406.0	1387.2	1316.2	1208.7	1098.1	995.4	898.9	834.6	822.8
50°	1347.6	1329.5	1324.0	1314.7	1245.6	1137.3	1032.4	933.3	837.6	776.2	764.7
52.5°	1264.8	1249.3	1253.0	1236.0	1169.1	1063.0	965.8	863.4	775.8	720.0	708.6
55°	1177.6	1155.4	1158.8	1152.5	1089.3	986.5	891.2	805.8	715.2	662.7	652.0
57.5°	1087.1	1058.2	1070.1	1066.4	1004.3	908.2	822.8	740.4	655.0	606.6	596.2
60°	994.3	966.6	978.8	975.4	917.0	829.8	752.2	675.7	595.1	551.1	540.8
62.5°	898.9	873.4	884.5	881.9	828.3	749.6	682.0	611.7	534.8	495.3	485.7
65°	802.8	778.4	788.4	786.6	737.0	677.1	609.9	545.6	474.2	439.9	430.2
67.5°	704.5	682.0	691.2	691.2	645.7	588.4	537.4	478.7	414.7	385.1	376.3
70°	606.9	585.9	594.0	593.2	554.8	508.2	464.2	411.8	354.5	330.1	322.7
72.5°	508.6	490.1	497.5	496.8	464.6	434.7	391.1	345.6	295.7	276.1	269.5
75°	413.2	395.9	402.9	402.1	375.9	347.8	318.6	280.9	238.0	224.4	217.7
77.5°	322.3	304.6	310.5	310.5	291.3	270.9	247.6	218.4	188.1	173.4	168.5
80°	235.1	226.6	223.6	224.0	211.1	197.7	185.9	157.8	135.7	125.7	122.3
82.5°	154.5	147.5	144.5	145.3	137.9	129.7	122.3	102.8	88.0	82.1	80.2
85°	82.1	76.9	74.3	76.1	74.7	70.2	66.5	53.2	44.0	41.8	40.7
87.5°	25.9	22.5	20.7	27.4	23.3	20.7	20.0	15.9	12.2	12.2	11.8
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°	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6
2.5°	1582.4	1582.4	1567.9	1564.6	1563.1	1565.0	1550.6	1548.0	1568.7	1561.7	1545.8
5°	1569.8	1569.0	1548.7	1545.0	1545.0	1542.8	1526.5	1522.8	1543.5	1537.6	1520.3
7.5°	1554.3	1552.0	1528.0	1525.4	1521.7	1520.3	1502.1	1499.6	1517.3	1513.6	1497.3
10°	1535.4	1533.2	1504.7	1502.9	1498.8	1495.9	1478.9	1477.0	1495.1	1489.2	1476.3
12.5°	1510.6	1506.6	1477.4	1475.5	1472.2	1471.1	1454.5	1453.7	1473.7	1467.8	1454.1
15°	1478.1	1474.8	1442.3	1443.0	1443.4	1443.4	1430.1	1429.3	1448.9	1446.3	1431.5
17.5°	1442.3	1437.8	1406.8	1409.0	1411.6	1414.5	1404.2	1406.0	1426.7	1423.4	1410.1
20°	1401.6	1397.2	1366.9	1373.1	1378.7	1384.6	1378.0	1383.1	1402.3	1400.9	1390.9
22.5°	1356.1	1351.7	1323.6	1333.2	1342.5	1353.6	1350.6	1356.5	1376.8	1376.5	1367.6
25°	1300.7	1301.8	1277.0	1288.9	1304.4	1319.9	1321.0	1330.6	1353.2	1351.0	1342.8
27.5°	1249.0	1250.4	1224.2	1244.2	1264.8	1284.8	1289.6	1302.9	1325.8	1324.0	1317.0
30°	1194.6	1196.5	1171.0	1198.3	1223.5	1247.8	1258.2	1276.3	1299.6	1299.6	1292.2
32.5°	1138.1	1141.4	1114.8	1151.4	1180.6	1209.0	1227.1	1246.0	1272.6	1271.9	1265.6
35°	1080.0	1083.7	1059.3	1105.9	1135.1	1169.9	1192.4	1217.5	1241.2	1241.6	1236.8
37.5°	1020.9	1025.3	1003.2	1054.2	1087.4	1128.5	1157.3	1182.4	1208.7	1210.1	1205.7
40°	962.1	966.9	947.7	996.9	1039.0	1084.8	1118.1	1147.7	1176.5	1177.2	1174.3
42.5°	903.4	908.5	894.1	942.2	989.9	1039.0	1078.2	1111.8	1141.4	1143.2	1139.9
45°	846.1	850.5	840.2	892.6	938.5	992.1	1037.2	1075.2	1105.2	1107.8	1106.7
47.5°	789.1	793.2	784.0	832.0	884.9	941.8	993.9	1036.1	1067.8	1070.8	1070.1
50°	733.3	736.7	726.7	776.9	829.4	890.1	944.4	993.2	1028.7	1031.6	1031.2
52.5°	677.9	681.2	672.7	725.6	773.3	837.2	896.3	949.2	984.3	988.7	989.5
55°	624.3	625.8	619.1	669.8	716.0	782.9	850.9	902.2	937.4	941.1	943.3
57.5°	570.7	571.1	565.5	613.9	658.3	726.7	798.0	852.0	885.2	888.9	892.3
60°	517.5	517.1	510.8	557.8	600.3	667.9	742.2	795.8	828.0	831.3	835.7
62.5°	464.6	463.5	458.0	501.2	541.1	608.0	682.7	734.4	765.1	767.3	773.3
65°	412.1	411.0	405.8	445.8	482.0	545.9	619.1	668.3	696.0	699.0	697.8
67.5°	360.4	358.2	354.1	390.0	422.8	482.0	552.2	599.2	622.1	624.7	631.7
70°	308.6	306.0	296.8	334.9	363.7	416.6	482.0	523.8	543.0	545.6	544.5
72.5°	257.6	255.0	245.1	280.2	304.6	350.8	409.2	443.9	460.6	462.8	462.8
75°	208.1	206.6	200.3	226.9	247.3	285.0	334.5	363.3	376.3	378.9	378.1
77.5°	160.4	159.3	153.0	175.9	191.8	219.9	259.8	282.4	292.0	295.0	301.2
80°	115.0	114.6	104.6	127.2	134.2	157.8	187.0	204.4	209.6	213.6	218.1
82.5°	73.6	73.9	63.9	83.2	86.1	101.3	119.4	130.1	133.8	137.1	140.5
85°	35.9	37.3	31.8	44.0	44.4	52.1	59.9	63.9	65.4	68.0	71.0
87.5°	9.2	10.7	5.9	12.6	11.1	14.4	16.6	17.7	17.4	19.2	20.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6
2.5°	1550.9	1562.8	1556.9	1576.1	1583.5	1571.6	1592.3	1592.7	1577.9	1595.3	1604.9
5°	1526.9	1539.1	1535.4	1555.4	1564.6	1554.3	1579.4	1584.2	1569.8	1589.4	1604.9
7.5°	1502.5	1516.9	1512.1	1532.5	1543.5	1535.4	1562.4	1570.2	1559.1	1580.5	1601.2
10°	1481.4	1493.6	1488.5	1509.9	1519.5	1512.9	1539.5	1553.9	1543.5	1569.8	1594.6
12.5°	1460.7	1470.7	1464.8	1482.6	1491.8	1483.3	1515.8	1529.1	1521.7	1549.1	1580.9
15°	1434.1	1445.2	1437.1	1453.0	1460.0	1452.6	1479.2	1502.1	1492.9	1522.8	1558.0
17.5°	1413.8	1420.1	1409.0	1421.6	1425.6	1415.7	1442.6	1465.2	1458.5	1491.1	1531.7
20°	1391.3	1396.4	1380.9	1387.9	1387.6	1375.0	1399.8	1421.9	1417.5	1453.4	1499.6
22.5°	1366.1	1368.7	1350.6	1352.1	1351.3	1330.6	1352.8	1375.4	1373.5	1409.7	1461.5
25°	1339.5	1339.9	1316.6	1315.9	1307.7	1283.3	1302.9	1328.4	1322.9	1362.1	1416.4
27.5°	1313.3	1309.6	1281.5	1274.8	1261.9	1232.7	1250.1	1273.0	1269.7	1308.1	1368.3
30°	1285.2	1280.4	1246.0	1233.8	1215.0	1181.3	1195.7	1217.2	1219.0	1252.7	1315.9
32.5°	1258.6	1246.4	1208.3	1190.6	1166.9	1127.7	1135.5	1157.3	1160.2	1194.3	1259.3
35°	1224.2	1216.1	1169.1	1138.8	1115.5	1072.6	1080.8	1095.9	1100.4	1133.6	1199.8
37.5°	1191.7	1178.7	1128.8	1091.9	1061.9	1016.8	1019.1	1034.6	1039.0	1072.6	1138.1
40°	1158.0	1139.5	1086.0	1042.7	1008.3	961.0	958.4	974.7	978.0	1010.9	1070.1
42.5°	1122.2	1100.0	1039.7	992.4	952.9	904.8	899.7	913.7	917.4	949.6	1007.6
45°	1086.0	1059.3	992.4	940.7	897.4	848.3	843.1	853.8	859.4	889.7	945.5
47.5°	1047.5	1016.5	943.6	886.0	841.3	792.1	785.8	796.5	801.0	830.9	883.8
50°	1007.2	969.5	893.4	829.8	785.4	737.0	727.8	740.4	744.4	772.5	824.3
52.5°	962.9	921.1	839.8	773.3	728.9	682.7	671.6	683.8	688.6	716.0	763.6
55°	915.9	870.8	785.8	721.1	673.1	628.0	618.7	623.6	633.9	659.8	704.1
57.5°	863.1	818.3	728.9	663.1	616.9	573.7	565.9	570.3	579.9	605.1	645.0
60°	806.9	759.6	670.9	605.1	560.3	519.3	512.3	516.4	526.7	549.6	586.6
62.5°	751.4	698.2	611.0	545.6	504.9	466.8	465.0	463.5	473.1	495.3	527.8
65°	684.2	633.2	548.5	486.4	449.5	415.1	407.7	411.0	420.3	440.6	474.6
67.5°	612.1	565.9	484.6	427.3	394.4	363.7	357.4	358.9	368.5	386.3	415.8
70°	535.6	494.9	419.2	367.8	340.1	311.2	307.2	307.5	316.8	332.3	358.2
72.5°	455.4	418.8	353.0	309.0	286.1	265.4	261.7	257.3	265.8	279.1	301.2
75°	373.7	341.5	287.2	251.3	233.2	215.9	212.5	208.1	216.6	228.1	245.4
77.5°	291.3	265.4	223.3	195.5	181.5	168.5	165.6	160.8	169.3	177.8	191.5
80°	210.7	191.8	166.7	137.5	132.7	124.2	121.2	116.1	124.2	129.7	140.1
82.5°	136.0	123.5	109.0	88.7	88.0	81.7	80.2	74.3	81.7	85.0	92.8
85°	68.7	62.8	59.1	45.1	46.6	42.5	42.1	35.9	41.8	43.2	47.7
87.5°	19.6	20.7	18.5	11.1	14.0	13.3	13.3	9.6	13.3	13.3	15.2
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: P837955

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6	1584.6
2.5°	1586.1	1592.3	1593.8	1593.4	1597.5	1619.7	1612.3	1619.7
5°	1589.7	1603.8	1607.5	1612.7	1619.3	1644.5	1636.3	1645.2
7.5°	1592.0	1613.0	1621.2	1631.1	1641.9	1670.0	1663.3	1672.2
10°	1592.0	1619.3	1631.1	1647.8	1662.2	1694.7	1688.4	1698.8
12.5°	1585.3	1620.4	1637.1	1660.3	1678.8	1713.9	1711.4	1718.7
15°	1571.6	1614.9	1637.8	1667.7	1690.7	1729.8	1728.7	1737.6
17.5°	1553.2	1605.3	1633.0	1670.7	1699.5	1743.5	1746.1	1750.9
20°	1529.9	1587.2	1623.4	1669.6	1705.8	1754.2	1757.6	1764.2
22.5°	1499.2	1565.4	1609.0	1664.8	1706.5	1758.7	1764.6	1770.9
25°	1463.0	1539.1	1590.1	1655.5	1702.9	1758.3	1766.4	1772.0
27.5°	1421.6	1505.1	1566.1	1640.8	1692.5	1752.4	1762.4	1769.0
30°	1373.5	1468.9	1538.7	1621.5	1678.5	1741.3	1752.0	1758.7
32.5°	1324.0	1429.0	1506.2	1596.8	1658.1	1723.6	1732.8	1738.0
35°	1270.0	1380.5	1467.0	1565.0	1631.9	1695.1	1702.1	1707.7
37.5°	1211.3	1328.1	1422.3	1529.1	1594.9	1655.5	1661.8	1668.1
40°	1150.6	1273.0	1372.0	1485.1	1550.9	1607.1	1613.8	1618.2
42.5°	1089.6	1212.0	1318.4	1433.4	1498.8	1552.8	1556.9	1561.3
45°	1027.9	1148.8	1258.2	1376.1	1440.8	1491.4	1492.9	1496.6
47.5°	965.1	1083.4	1192.0	1310.7	1374.6	1420.8	1422.3	1425.3
50°	901.9	1017.9	1121.4	1240.1	1302.6	1351.3	1344.7	1347.6
52.5°	839.8	949.2	1054.9	1163.9	1225.7	1268.9	1270.8	1264.8
55°	778.8	881.9	979.1	1084.1	1142.9	1176.5	1175.4	1177.6
57.5°	717.1	813.9	903.0	999.1	1056.4	1088.2	1094.8	1087.1
60°	654.2	745.2	825.0	911.9	967.3	993.9	1001.7	994.3
62.5°	591.8	675.3	747.7	823.5	874.9	907.8	907.1	898.9
65°	529.3	605.1	669.8	734.1	778.8	811.7	810.2	802.8
67.5°	471.6	534.1	592.1	644.3	683.1	705.6	713.4	704.5
70°	408.1	462.0	513.0	554.8	587.0	607.3	614.7	606.9
72.5°	344.5	390.3	426.2	466.5	491.2	508.2	516.0	508.6
75°	281.7	319.4	348.6	380.0	397.3	411.8	420.6	413.2
77.5°	220.7	249.9	273.2	296.1	316.0	319.4	327.1	322.3
80°	162.6	183.7	200.7	215.9	230.3	231.8	238.0	235.1
82.5°	108.3	122.3	126.8	142.7	151.9	150.4	156.7	154.5
85°	57.3	65.8	73.6	78.4	83.5	78.7	84.3	82.1
87.5°	19.2	20.3	17.7	25.1	27.7	23.7	27.0	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)