

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: P837990

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-35-120-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: P837990
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

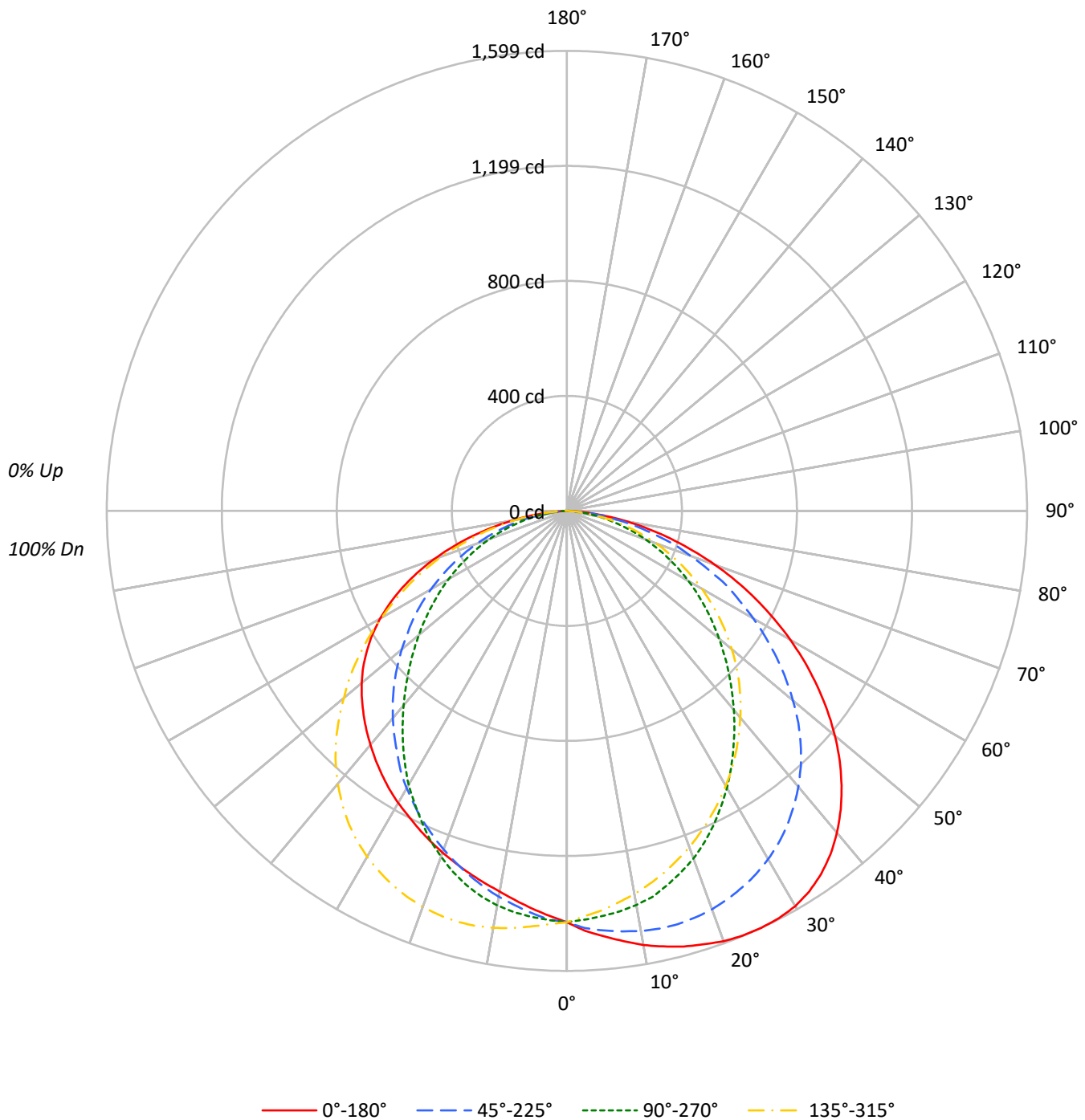
Lumens per Lamp: N/A
Luminaire Lumens: 4194.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3847	3847	3847	3847
5°	4009	3819	3747	3826
10°	4188	3800	3671	3805
15°	4367	3751	3635	3752
20°	4558	3683	3619	3662
25°	4747	3580	3619	3543
30°	4930	3456	3643	3417
35°	5061	3314	3680	3261
40°	5128	3171	3731	3099
45°	5138	3027	3803	2950
50°	5090	2888	3896	2812
55°	4984	2760	3983	2683
60°	4828	2625	4036	2558
65°	4612	2471	4015	2414
70°	4308	2290	3873	2249
75°	3876	2042	3554	2032
80°	3287	1711	2986	1736
85°	2285	1133	1896	1164

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.2
10°-20°	393.0	9.4
20°-30°	602.3	14.4
30°-40°	732.4	17.5
40°-50°	761.4	18.2
50°-60°	687.7	16.4
60°-70°	522.9	12.5
70°-80°	291.5	7.0
80°-90°	67.1	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°	1131.1	27.0
0°-40°	1863.4	44.4
0°-60°	3312.5	79.0
0°-90°	4194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1430	1430	1430	1430	1430	
5°	1484	1414	1387	1416	1484	143
15°	1568	1346	1305	1347	1568	444
25°	1599	1206	1219	1193	1599	738
35°	1540	1009	1120	993	1540	962
45°	1350	795	999	775	1350	1039
55°	1062	588	849	572	1062	948
65°	724	388	631	379	724	716
75°	373	196	342	195	373	396
85°	74	37	61	38	74	93
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°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1461.2	1439.8	1440.2	1458.8	1444.5	1451.5	1431.5	1439.2	1436.8	1438.5	1422.2
5°	1484.2	1461.2	1460.8	1476.9	1460.8	1463.9	1438.5	1443.5	1436.2	1431.5	1413.8
7.5°	1508.5	1485.5	1483.2	1497.2	1476.2	1473.9	1445.8	1445.8	1432.5	1420.8	1404.2
10°	1532.5	1508.9	1505.9	1516.5	1490.5	1482.9	1448.8	1443.5	1425.8	1408.5	1390.5
12.5°	1550.5	1526.5	1524.2	1530.9	1501.5	1487.5	1448.8	1438.5	1412.5	1388.2	1374.2
15°	1567.6	1542.9	1536.5	1539.9	1506.2	1487.5	1444.2	1428.2	1394.8	1362.8	1346.5
17.5°	1579.6	1555.9	1549.5	1549.2	1508.5	1481.9	1434.2	1412.2	1372.2	1333.5	1317.1
20°	1591.6	1567.9	1559.9	1553.9	1507.9	1474.2	1419.5	1389.8	1343.1	1299.8	1286.1
22.5°	1597.6	1573.2	1564.6	1555.5	1503.5	1460.2	1401.5	1363.8	1310.5	1258.8	1247.4
25°	1598.6	1573.6	1564.2	1551.2	1494.9	1443.5	1378.2	1332.5	1272.8	1215.4	1205.8
27.5°	1595.9	1568.6	1559.2	1543.5	1481.9	1423.2	1350.5	1296.8	1232.8	1169.4	1159.1
30°	1586.6	1558.9	1549.9	1529.5	1463.5	1398.2	1320.1	1257.1	1188.4	1121.1	1112.1
32.5°	1567.9	1540.9	1533.5	1513.2	1443.5	1369.2	1284.8	1214.4	1139.4	1075.0	1061.7
35°	1540.5	1513.5	1508.9	1487.5	1415.5	1334.5	1246.1	1167.7	1087.4	1021.7	1008.7
37.5°	1504.9	1482.2	1475.2	1454.2	1382.5	1295.1	1201.8	1117.1	1034.4	963.7	955.7
40°	1459.8	1438.5	1433.2	1414.5	1344.1	1251.4	1153.7	1064.7	979.7	914.0	902.7
42.5°	1408.5	1388.5	1385.5	1366.1	1296.8	1203.1	1101.7	1010.4	922.7	859.3	848.0
45°	1350.1	1330.8	1330.1	1311.8	1245.1	1149.4	1047.0	955.3	867.0	801.3	795.3
47.5°	1285.8	1268.4	1268.4	1251.4	1187.4	1090.4	990.7	898.0	811.0	752.9	742.3
50°	1215.8	1199.4	1194.4	1186.1	1123.7	1026.0	931.3	842.0	755.6	700.2	689.9
52.5°	1141.1	1127.1	1130.4	1115.1	1054.7	959.0	871.3	778.9	699.9	649.6	639.2
55°	1062.4	1042.4	1045.4	1039.7	982.7	890.0	804.0	726.9	645.2	597.9	588.2
57.5°	980.7	954.7	965.3	962.0	906.0	819.3	742.3	667.9	590.9	547.2	537.9
60°	897.0	872.0	883.0	880.0	827.3	748.6	678.6	609.5	536.9	497.2	487.8
62.5°	811.0	787.9	797.9	795.6	747.3	676.2	615.2	551.9	482.5	446.8	438.2
65°	724.3	702.2	711.3	709.6	664.9	610.9	550.2	492.2	427.8	396.8	388.1
67.5°	635.6	615.2	623.6	623.6	582.5	530.9	484.8	431.8	374.1	347.5	339.5
70°	547.5	528.5	535.9	535.2	500.5	458.5	418.8	371.5	319.8	297.8	291.1
72.5°	458.8	442.2	448.8	448.2	419.1	392.1	352.8	311.8	266.8	249.1	243.1
75°	372.8	357.1	363.5	362.8	339.1	313.8	287.4	253.4	214.7	202.4	196.4
77.5°	290.8	274.8	280.1	280.1	262.8	244.4	223.4	197.1	169.7	156.4	152.1
80°	212.1	204.4	201.7	202.1	190.4	178.4	167.7	142.4	122.4	113.4	110.4
82.5°	139.4	133.0	130.4	131.0	124.4	117.0	110.4	92.7	79.4	74.0	72.4
85°	74.0	69.4	67.0	68.7	67.4	63.4	60.0	48.0	39.7	37.7	36.7
87.5°	23.3	20.3	18.7	24.7	21.0	18.7	18.0	14.3	11.0	11.0	10.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1427.5	1427.5	1414.5	1411.5	1410.2	1411.8	1398.8	1396.5	1415.2	1408.8	1394.5
5°	1416.2	1415.5	1397.2	1393.8	1393.8	1391.8	1377.2	1373.8	1392.5	1387.2	1371.5
7.5°	1402.2	1400.2	1378.5	1376.2	1372.8	1371.5	1355.1	1352.8	1368.8	1365.5	1350.8
10°	1385.2	1383.2	1357.5	1355.8	1352.1	1349.5	1334.1	1332.5	1348.8	1343.5	1331.8
12.5°	1362.8	1359.1	1332.8	1331.1	1328.1	1327.1	1312.1	1311.5	1329.5	1324.1	1311.8
15°	1333.5	1330.5	1301.1	1301.8	1302.1	1302.1	1290.1	1289.5	1307.1	1304.8	1291.5
17.5°	1301.1	1297.1	1269.1	1271.1	1273.5	1276.1	1266.8	1268.4	1287.1	1284.1	1272.1
20°	1264.4	1260.4	1233.1	1238.8	1243.8	1249.1	1243.1	1247.8	1265.1	1263.8	1254.8
22.5°	1223.4	1219.4	1194.1	1202.8	1211.1	1221.1	1218.4	1223.8	1242.1	1241.8	1233.8
25°	1173.4	1174.4	1152.1	1162.7	1176.7	1190.8	1191.8	1200.4	1220.8	1218.8	1211.4
27.5°	1126.7	1128.1	1104.4	1122.4	1141.1	1159.1	1163.4	1175.4	1196.1	1194.4	1188.1
30°	1077.7	1079.4	1056.4	1081.0	1103.7	1125.7	1135.1	1151.4	1172.4	1172.4	1165.7
32.5°	1026.7	1029.7	1005.7	1038.7	1065.0	1090.7	1107.1	1124.1	1148.1	1147.4	1141.7
35°	974.3	977.7	955.7	997.7	1024.0	1055.4	1075.7	1098.4	1119.7	1120.1	1115.7
37.5°	921.0	925.0	905.0	951.0	981.0	1018.0	1044.0	1066.7	1090.4	1091.7	1087.7
40°	868.0	872.3	855.0	899.3	937.3	978.7	1008.7	1035.4	1061.4	1062.0	1059.4
42.5°	815.0	819.6	806.6	850.0	893.0	937.3	972.7	1003.0	1029.7	1031.4	1028.4
45°	763.3	767.3	757.9	805.3	846.6	895.0	935.7	970.0	997.0	999.4	998.4
47.5°	711.9	715.6	707.3	750.6	798.3	849.6	896.7	934.7	963.3	966.0	965.3
50°	661.6	664.6	655.6	700.9	748.3	803.0	852.0	896.0	928.0	930.7	930.3
52.5°	611.5	614.6	606.9	654.6	697.6	755.3	808.6	856.3	888.0	892.0	892.6
55°	563.2	564.5	558.5	604.2	645.9	706.2	767.6	814.0	845.6	849.0	851.0
57.5°	514.8	515.2	510.2	553.9	593.9	655.6	719.9	768.6	798.6	802.0	805.0
60°	466.8	466.5	460.8	503.2	541.5	602.5	669.6	717.9	746.9	749.9	753.9
62.5°	419.1	418.1	413.1	452.2	488.2	548.5	615.9	662.6	690.2	692.2	697.6
65°	371.8	370.8	366.1	402.1	434.8	492.5	558.5	602.9	627.9	630.6	629.6
67.5°	325.1	323.1	319.4	351.8	381.5	434.8	498.2	540.5	561.2	563.5	569.9
70°	278.4	276.1	267.8	302.1	328.1	375.8	434.8	472.5	489.8	492.2	491.2
72.5°	232.4	230.1	221.1	252.8	274.8	316.4	369.1	400.5	415.5	417.5	417.5
75°	187.7	186.4	180.7	204.7	223.1	257.1	301.8	327.8	339.5	341.8	341.1
77.5°	144.7	143.7	138.0	158.7	173.1	198.4	234.4	254.8	263.4	266.1	271.8
80°	103.7	103.4	94.4	114.7	121.0	142.4	168.7	184.4	189.1	192.7	196.7
82.5°	66.4	66.7	57.7	75.0	77.7	91.4	107.7	117.4	120.7	123.7	126.7
85°	32.3	33.7	28.7	39.7	40.0	47.0	54.0	57.7	59.0	61.4	64.0
87.5°	8.3	9.7	5.3	11.3	10.0	13.0	15.0	16.0	15.7	17.3	18.3
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°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1399.2	1409.8	1404.5	1421.8	1428.5	1417.8	1436.5	1436.8	1423.5	1439.2	1447.8
5°	1377.5	1388.5	1385.2	1403.2	1411.5	1402.2	1424.8	1429.2	1416.2	1433.8	1447.8
7.5°	1355.5	1368.5	1364.1	1382.5	1392.5	1385.2	1409.5	1416.5	1406.5	1425.8	1444.5
10°	1336.5	1347.5	1342.8	1362.1	1370.8	1364.8	1388.8	1401.8	1392.5	1416.2	1438.5
12.5°	1317.8	1326.8	1321.5	1337.5	1345.8	1338.1	1367.5	1379.5	1372.8	1397.5	1426.2
15°	1293.8	1303.8	1296.5	1310.8	1317.1	1310.5	1334.5	1355.1	1346.8	1373.8	1405.5
17.5°	1275.5	1281.1	1271.1	1282.5	1286.1	1277.1	1301.5	1321.8	1315.8	1345.1	1381.8
20°	1255.1	1259.8	1245.8	1252.1	1251.8	1240.4	1262.8	1282.8	1278.8	1311.1	1352.8
22.5°	1232.4	1234.8	1218.4	1219.8	1219.1	1200.4	1220.4	1240.8	1239.1	1271.8	1318.5
25°	1208.4	1208.8	1187.8	1187.1	1179.8	1157.7	1175.4	1198.4	1193.4	1228.8	1277.8
27.5°	1184.8	1181.4	1156.1	1150.1	1138.4	1112.1	1127.7	1148.4	1145.4	1180.1	1234.4
30°	1159.4	1155.1	1124.1	1113.1	1096.1	1065.7	1078.7	1098.1	1099.7	1130.1	1187.1
32.5°	1135.4	1124.4	1090.1	1074.0	1052.7	1017.4	1024.4	1044.0	1046.7	1077.4	1136.1
35°	1104.4	1097.1	1054.7	1027.4	1006.4	967.7	975.0	988.7	992.7	1022.7	1082.4
37.5°	1075.0	1063.4	1018.4	985.0	958.0	917.3	919.3	933.3	937.3	967.7	1026.7
40°	1044.7	1028.0	979.7	940.7	909.7	867.0	864.6	879.3	882.3	912.0	965.3
42.5°	1012.4	992.4	938.0	895.3	859.6	816.3	811.6	824.3	827.6	856.6	909.0
45°	979.7	955.7	895.3	848.6	809.6	765.3	760.6	770.3	775.3	802.6	853.0
47.5°	945.0	917.0	851.3	799.3	758.9	714.6	708.9	718.6	722.6	749.6	797.3
50°	908.7	874.6	806.0	748.6	708.6	664.9	656.6	667.9	671.6	696.9	743.6
52.5°	868.6	831.0	757.6	697.6	657.6	615.9	605.9	616.9	621.2	645.9	688.9
55°	826.3	785.6	708.9	650.6	607.2	566.5	558.2	562.5	571.9	595.2	635.2
57.5°	778.6	738.3	657.6	598.2	556.5	517.5	510.5	514.5	523.2	545.9	581.9
60°	727.9	685.2	605.2	545.9	505.5	468.5	462.2	465.8	475.2	495.8	529.2
62.5°	677.9	629.9	551.2	492.2	455.5	421.1	419.5	418.1	426.8	446.8	476.2
65°	617.2	571.2	494.8	438.8	405.5	374.5	367.8	370.8	379.1	397.5	428.2
67.5°	552.2	510.5	437.2	385.5	355.8	328.1	322.4	323.8	332.5	348.5	375.1
70°	483.2	446.5	378.1	331.8	306.8	280.8	277.1	277.4	285.8	299.8	323.1
72.5°	410.8	377.8	318.4	278.8	258.1	239.4	236.1	232.1	239.8	251.8	271.8
75°	337.1	308.1	259.1	226.7	210.4	194.7	191.7	187.7	195.4	205.7	221.4
77.5°	262.8	239.4	201.4	176.4	163.7	152.1	149.4	145.1	152.7	160.4	172.7
80°	190.1	173.1	150.4	124.0	119.7	112.0	109.4	104.7	112.0	117.0	126.4
82.5°	122.7	111.4	98.4	80.0	79.4	73.7	72.4	67.0	73.7	76.7	83.7
85°	62.0	56.7	53.4	40.7	42.0	38.3	38.0	32.3	37.7	39.0	43.0
87.5°	17.7	18.7	16.7	10.0	12.7	12.0	12.0	8.7	12.0	12.0	13.7
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: P837990

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5	1429.5
2.5°	1430.8	1436.5	1437.8	1437.5	1441.2	1461.2	1454.5	1461.2
5°	1434.2	1446.8	1450.2	1454.8	1460.8	1483.5	1476.2	1484.2
7.5°	1436.2	1455.2	1462.5	1471.5	1481.2	1506.5	1500.5	1508.5
10°	1436.2	1460.8	1471.5	1486.5	1499.5	1528.9	1523.2	1532.5
12.5°	1430.2	1461.9	1476.9	1497.9	1514.5	1546.2	1543.9	1550.5
15°	1417.8	1456.8	1477.5	1504.5	1525.2	1560.6	1559.6	1567.6
17.5°	1401.2	1448.2	1473.2	1507.2	1533.2	1572.9	1575.2	1579.6
20°	1380.2	1431.8	1464.5	1506.2	1538.9	1582.6	1585.6	1591.6
22.5°	1352.5	1412.2	1451.5	1501.9	1539.5	1586.6	1591.9	1597.6
25°	1319.8	1388.5	1434.5	1493.5	1536.2	1586.2	1593.6	1598.6
27.5°	1282.5	1357.8	1412.8	1480.2	1526.9	1580.9	1589.9	1595.9
30°	1239.1	1325.1	1388.2	1462.9	1514.2	1570.9	1580.6	1586.6
32.5°	1194.4	1289.1	1358.8	1440.5	1495.9	1554.9	1563.2	1567.9
35°	1145.7	1245.4	1323.5	1411.8	1472.2	1529.2	1535.5	1540.5
37.5°	1092.7	1198.1	1283.1	1379.5	1438.8	1493.5	1499.2	1504.9
40°	1038.0	1148.4	1237.8	1339.8	1399.2	1449.8	1455.8	1459.8
42.5°	983.0	1093.4	1189.4	1293.1	1352.1	1400.8	1404.5	1408.5
45°	927.3	1036.4	1135.1	1241.4	1299.8	1345.5	1346.8	1350.1
47.5°	870.6	977.3	1075.4	1182.4	1240.1	1281.8	1283.1	1285.8
50°	813.6	918.3	1011.7	1118.7	1175.1	1219.1	1213.1	1215.8
52.5°	757.6	856.3	951.7	1050.0	1105.7	1144.7	1146.4	1141.1
55°	702.6	795.6	883.3	978.0	1031.0	1061.4	1060.4	1062.4
57.5°	646.9	734.3	814.6	901.3	953.0	981.7	987.7	980.7
60°	590.2	672.2	744.3	822.6	872.6	896.7	903.7	897.0
62.5°	533.9	609.2	674.6	742.9	789.3	819.0	818.3	811.0
65°	477.5	545.9	604.2	662.2	702.6	732.3	730.9	724.3
67.5°	425.5	481.8	534.2	581.2	616.2	636.6	643.6	635.6
70°	368.1	416.8	462.8	500.5	529.5	547.9	554.5	547.5
72.5°	310.8	352.1	384.5	420.8	443.2	458.5	465.5	458.8
75°	254.1	288.1	314.4	342.8	358.5	371.5	379.5	372.8
77.5°	199.1	225.4	246.4	267.1	285.1	288.1	295.1	290.8
80°	146.7	165.7	181.1	194.7	207.7	209.1	214.7	212.1
82.5°	97.7	110.4	114.4	128.7	137.0	135.7	141.4	139.4
85°	51.7	59.4	66.4	70.7	75.4	71.0	76.0	74.0
87.5°	17.3	18.3	16.0	22.7	25.0	21.3	24.3	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)