

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: P837763

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2HI-50-120-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: P837763
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-LD4-2HI-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

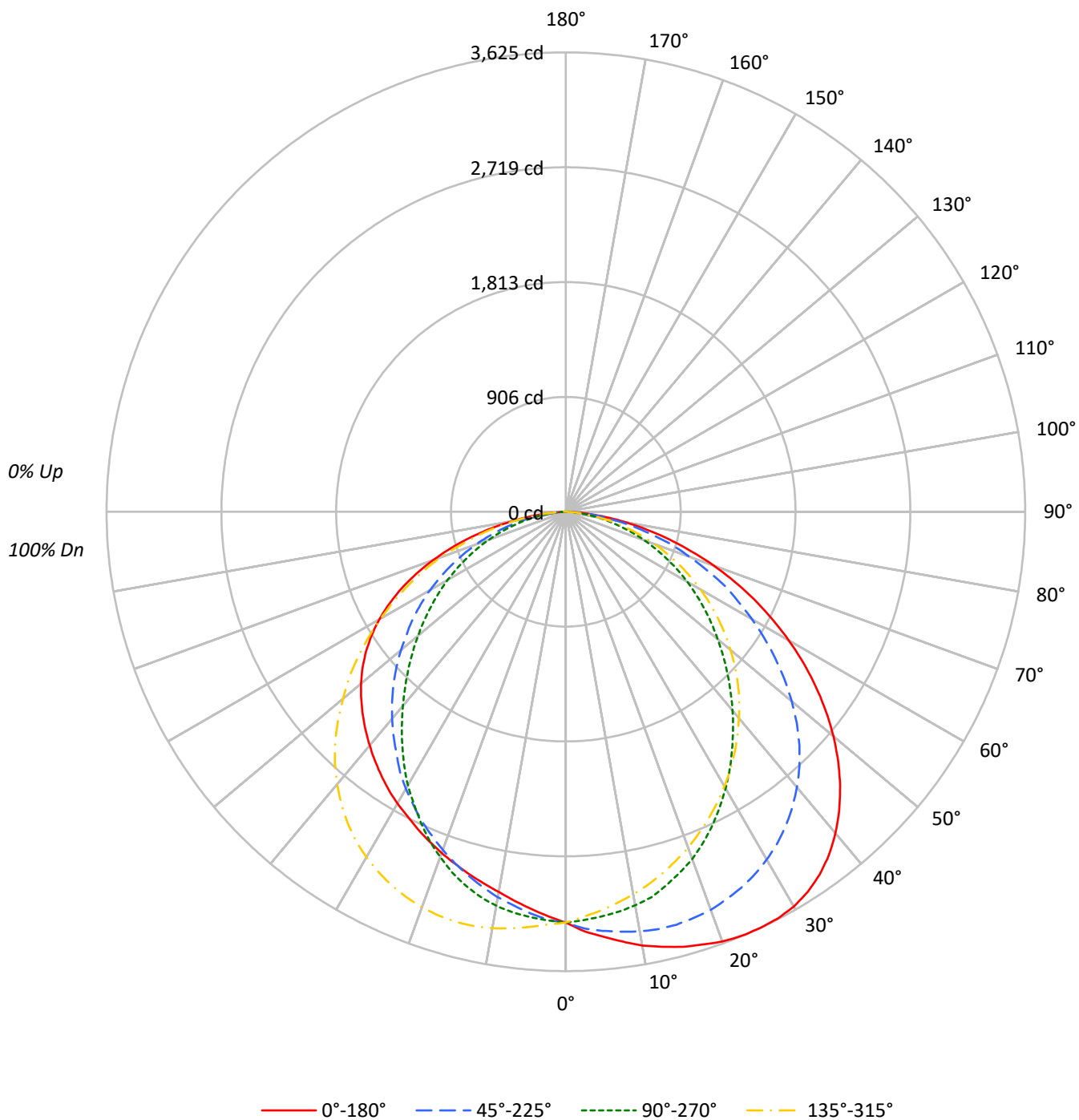
Lumens per Lamp: N/A
Luminaire Lumens: 9510.3 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8723	8723	8723	8723
5°	9091	8660	8497	8675
10°	9496	8616	8325	8628
15°	9903	8506	8243	8508
20°	10335	8352	8207	8304
25°	10763	8118	8206	8035
30°	11179	7836	8261	7749
35°	11476	7514	8344	7395
40°	11629	7190	8460	7028
45°	11651	6863	8624	6690
50°	11542	6549	8835	6375
55°	11302	6258	9032	6084
60°	10947	5954	9153	5799
65°	10457	5604	9105	5474
70°	9769	5194	8781	5098
75°	8790	4631	8058	4607
80°	7452	3879	6772	3938
85°	5184	2569	4295	2637

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	3.2
10°-20°	891.2	9.4
20°-30°	1365.8	14.4
30°-40°	1660.8	17.5
40°-50°	1726.4	18.2
50°-60°	1559.5	16.4
60°-70°	1185.6	12.5
70°-80°	661.0	7.0
80°-90°	152.2	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°	2564.8	27.0
0°-40°	4225.6	44.4
0°-60°	7511.5	79.0
0°-90°	9510.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9510.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3242	3242	3242	3242	3242	
5°	3366	3206	3146	3211	3366	325
15°	3555	3053	2959	3054	3555	1008
25°	3625	2734	2764	2706	3625	1674
35°	3493	2287	2540	2251	3493	2182
45°	3062	1803	2266	1758	3062	2357
55°	2409	1334	1925	1297	2409	2151
65°	1642	880	1430	860	1642	1623
75°	845	445	775	443	845	898
85°	168	83	139	85	168	211
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°	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6
2.5°	3313.4	3265.0	3265.8	3308.1	3275.6	3291.5	3246.1	3263.5	3258.2	3262.0	3224.9
5°	3365.6	3313.4	3312.6	3348.9	3312.6	3319.4	3262.0	3273.3	3256.7	3246.1	3206.0
7.5°	3420.8	3368.6	3363.3	3395.1	3347.4	3342.1	3278.6	3278.6	3248.4	3221.9	3184.1
10°	3475.2	3421.5	3414.7	3438.9	3379.9	3362.5	3285.4	3273.3	3233.2	3193.9	3153.1
12.5°	3516.0	3461.6	3456.3	3471.4	3404.9	3373.1	3285.4	3262.0	3203.0	3147.8	3116.0
15°	3554.6	3498.6	3484.3	3491.8	3415.5	3373.1	3274.8	3238.5	3162.9	3090.3	3053.3
17.5°	3581.8	3528.1	3513.8	3513.0	3420.8	3360.3	3252.1	3202.2	3111.5	3023.8	2986.7
20°	3609.0	3555.4	3537.2	3523.6	3419.3	3342.9	3218.9	3151.6	3045.7	2947.4	2916.4
22.5°	3622.7	3567.5	3547.8	3527.4	3409.4	3311.1	3178.0	3092.6	2971.6	2854.4	2828.7
25°	3624.9	3568.2	3547.0	3517.5	3389.8	3273.3	3125.1	3021.5	2886.2	2756.1	2734.2
27.5°	3618.9	3556.9	3535.7	3500.2	3360.3	3227.2	3062.4	2940.6	2795.4	2651.8	2628.3
30°	3597.7	3534.9	3514.5	3468.4	3318.7	3170.5	2993.5	2850.6	2694.9	2542.1	2521.7
32.5°	3555.4	3494.1	3477.5	3431.4	3273.3	3104.7	2913.4	2753.9	2583.7	2437.8	2407.5
35°	3493.4	3432.1	3421.5	3373.1	3209.8	3026.1	2825.7	2648.0	2465.8	2316.8	2287.3
37.5°	3412.4	3361.0	3345.2	3297.5	3134.9	2936.8	2725.1	2533.1	2345.5	2185.2	2167.1
40°	3310.4	3262.0	3249.9	3207.5	3048.0	2837.8	2616.2	2414.3	2221.5	2072.6	2046.9
42.5°	3193.9	3148.6	3141.7	3097.9	2940.6	2728.1	2498.3	2291.1	2092.2	1948.6	1922.9
45°	3061.6	3017.7	3016.2	2974.6	2823.4	2606.4	2374.3	2166.3	1966.0	1817.0	1803.4
47.5°	2915.7	2876.3	2876.3	2837.8	2692.6	2472.6	2246.5	2036.3	1838.9	1707.4	1683.2
50°	2756.9	2719.8	2708.5	2689.6	2548.2	2326.6	2111.9	1909.2	1713.4	1587.9	1564.4
52.5°	2587.5	2555.7	2563.3	2528.5	2391.7	2174.7	1975.8	1766.3	1587.1	1473.0	1449.5
55°	2409.1	2363.7	2370.5	2357.6	2228.3	2018.1	1823.0	1648.4	1463.1	1355.8	1333.8
57.5°	2223.8	2164.8	2189.0	2181.5	2054.4	1857.8	1683.2	1514.5	1339.9	1240.8	1219.6
60°	2034.0	1977.3	2002.3	1995.4	1876.0	1697.5	1538.7	1382.2	1217.4	1127.4	1106.2
62.5°	1838.9	1786.8	1809.4	1804.1	1694.5	1533.4	1395.1	1251.4	1094.1	1013.2	993.6
65°	1642.3	1592.4	1612.8	1609.1	1507.7	1385.2	1247.6	1116.1	970.1	899.8	880.1
67.5°	1441.2	1395.1	1414.0	1414.0	1321.0	1203.8	1099.4	979.2	848.4	787.9	769.7
70°	1241.6	1198.5	1215.1	1213.6	1135.0	1039.7	949.7	842.3	725.1	675.2	660.1
72.5°	1040.4	1002.6	1017.8	1016.2	950.5	889.2	800.0	707.0	604.9	564.8	551.2
75°	845.4	809.8	824.2	822.7	769.0	711.5	651.8	574.7	487.0	459.0	445.4
77.5°	659.4	623.1	635.2	635.2	595.8	554.2	506.6	446.9	384.9	354.6	344.8
80°	480.9	463.5	457.5	458.2	431.8	404.5	380.3	322.9	277.5	257.1	250.3
82.5°	316.1	301.7	295.6	297.2	282.0	265.4	250.3	210.2	180.0	167.9	164.1
85°	167.9	157.3	152.0	155.8	152.7	143.7	136.1	108.9	90.0	85.4	83.2
87.5°	52.9	46.1	42.3	56.0	47.6	42.3	40.8	32.5	25.0	25.0	24.2
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°	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6
2.5°	3237.0	3237.0	3207.5	3200.7	3197.7	3201.5	3172.0	3166.7	3209.0	3194.7	3162.2
5°	3211.3	3209.8	3168.2	3160.7	3160.7	3156.1	3122.8	3115.3	3157.6	3145.5	3110.0
7.5°	3179.6	3175.0	3125.9	3120.6	3113.0	3110.0	3072.9	3067.6	3103.9	3096.4	3063.1
10°	3141.0	3136.5	3078.2	3074.5	3066.1	3060.1	3025.3	3021.5	3058.6	3046.5	3020.0
12.5°	3090.3	3082.0	3022.3	3018.5	3011.7	3009.4	2975.4	2973.9	3014.7	3002.6	2974.6
15°	3023.8	3017.0	2950.4	2952.0	2952.7	2952.7	2925.5	2924.0	2964.1	2958.8	2928.5
17.5°	2950.4	2941.4	2877.9	2882.4	2887.7	2893.7	2872.6	2876.3	2918.7	2911.9	2884.7
20°	2867.3	2858.2	2796.2	2809.0	2820.4	2832.5	2818.9	2829.5	2868.8	2865.8	2845.3
22.5°	2774.3	2765.2	2707.7	2727.4	2746.3	2769.0	2762.9	2775.0	2816.6	2815.9	2797.7
25°	2660.8	2663.1	2612.5	2636.7	2668.4	2700.2	2702.4	2722.1	2768.2	2763.7	2747.0
27.5°	2555.0	2558.0	2504.3	2545.2	2587.5	2628.3	2638.2	2665.4	2712.3	2708.5	2694.1
30°	2443.8	2447.6	2395.4	2451.4	2502.8	2552.7	2573.9	2610.9	2658.6	2658.6	2643.5
32.5°	2328.1	2335.0	2280.5	2355.4	2415.1	2473.3	2510.4	2548.9	2603.4	2601.9	2589.0
35°	2209.4	2217.0	2167.1	2262.4	2322.1	2393.2	2439.3	2490.7	2539.1	2539.9	2530.0
37.5°	2088.5	2097.5	2052.2	2156.5	2224.6	2308.5	2367.5	2418.9	2472.6	2475.6	2466.5
40°	1968.2	1978.1	1938.7	2039.3	2125.5	2219.3	2287.3	2347.8	2406.8	2408.3	2402.2
42.5°	1848.0	1858.6	1829.1	1927.4	2024.9	2125.5	2205.7	2274.5	2335.0	2338.7	2331.9
45°	1730.8	1739.9	1718.7	1826.1	1919.8	2029.5	2121.7	2199.6	2260.8	2266.1	2263.9
47.5°	1614.4	1622.7	1603.8	1702.1	1810.2	1926.6	2033.3	2119.5	2184.5	2190.5	2189.0
50°	1500.2	1507.0	1486.6	1589.4	1696.8	1820.8	1931.9	2031.7	2104.3	2110.4	2109.6
52.5°	1386.8	1393.6	1376.2	1484.3	1581.8	1712.7	1833.6	1941.8	2013.6	2022.7	2024.2
55°	1277.1	1280.1	1266.5	1370.1	1464.6	1601.5	1740.6	1845.7	1917.6	1925.1	1929.7
57.5°	1167.5	1168.2	1156.9	1255.9	1346.7	1486.6	1632.5	1742.9	1810.9	1818.5	1825.3
60°	1058.6	1057.8	1045.0	1141.0	1228.0	1366.3	1518.3	1628.0	1693.7	1700.6	1709.6
62.5°	950.5	948.2	936.9	1025.3	1107.0	1243.8	1396.6	1502.4	1565.2	1569.7	1581.8
65°	843.1	840.8	830.2	911.9	986.0	1116.8	1266.5	1367.1	1423.8	1429.9	1427.6
67.5°	737.2	732.7	724.4	797.7	865.0	986.0	1129.7	1225.7	1272.6	1277.9	1292.2
70°	631.4	626.1	607.2	685.1	744.0	852.2	986.0	1071.4	1110.8	1116.1	1113.8
72.5°	527.0	521.7	501.3	573.2	623.1	717.6	837.0	908.1	942.1	946.7	946.7
75°	425.7	422.7	409.8	464.3	505.9	583.0	684.3	743.3	769.7	775.0	773.5
77.5°	328.2	325.9	313.0	359.9	392.4	449.9	531.6	577.7	597.3	603.4	616.3
80°	235.2	234.4	214.0	260.1	274.5	322.9	382.6	418.1	428.7	437.0	446.1
82.5°	150.5	151.2	130.8	170.1	176.2	207.2	244.2	266.2	273.7	280.5	287.3
85°	73.3	76.4	65.0	90.0	90.7	106.6	122.5	130.8	133.8	139.1	145.2
87.5°	18.9	21.9	12.1	25.7	22.7	29.5	34.0	36.3	35.5	39.3	41.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6
2.5°	3172.8	3196.9	3184.8	3224.2	3239.3	3215.1	3257.4	3258.2	3227.9	3263.5	3283.1
5°	3123.6	3148.6	3141.0	3181.8	3200.7	3179.6	3231.0	3240.8	3211.3	3251.4	3283.1
7.5°	3073.7	3103.2	3093.4	3134.9	3157.6	3141.0	3196.2	3212.1	3189.4	3233.2	3275.6
10°	3030.6	3055.6	3045.0	3088.8	3108.5	3094.9	3149.3	3178.8	3157.6	3211.3	3262.0
12.5°	2988.3	3008.7	2996.6	3032.9	3051.8	3034.4	3100.9	3128.1	3113.0	3169.0	3234.0
15°	2933.8	2956.5	2939.9	2972.4	2986.7	2971.6	3026.1	3072.9	3054.0	3115.3	3187.1
17.5°	2892.2	2905.1	2882.4	2908.1	2916.4	2896.0	2951.2	2997.3	2983.7	3050.3	3133.4
20°	2846.1	2856.7	2824.9	2839.3	2838.5	2812.8	2863.5	2908.9	2899.8	2973.1	3067.6
22.5°	2794.7	2800.0	2762.9	2765.9	2764.4	2722.1	2767.5	2813.6	2809.8	2883.9	2989.8
25°	2740.2	2741.0	2693.4	2691.8	2675.2	2625.3	2665.4	2717.6	2706.2	2786.4	2897.5
27.5°	2686.6	2679.0	2621.5	2607.9	2581.5	2521.7	2557.3	2604.1	2597.3	2676.0	2799.2
30°	2629.1	2619.3	2548.9	2524.0	2485.4	2416.6	2446.1	2490.0	2493.7	2562.5	2691.8
32.5°	2574.6	2549.7	2471.8	2435.5	2387.1	2307.0	2322.9	2367.5	2373.5	2443.1	2576.2
35°	2504.3	2487.7	2391.7	2329.7	2282.0	2194.3	2210.9	2241.9	2251.0	2319.1	2454.4
37.5°	2437.8	2411.3	2309.2	2233.6	2172.4	2080.1	2084.7	2116.4	2125.5	2194.3	2328.1
40°	2369.0	2331.2	2221.5	2133.1	2062.7	1966.0	1960.7	1993.9	2000.7	2068.0	2189.0
42.5°	2295.6	2250.3	2127.0	2030.2	1949.3	1851.0	1840.4	1869.2	1876.7	1942.5	2061.2
45°	2221.5	2167.1	2030.2	1924.4	1835.9	1735.3	1724.7	1746.7	1758.0	1820.0	1934.2
47.5°	2142.9	2079.4	1930.4	1812.5	1721.0	1620.4	1607.5	1629.5	1638.5	1699.8	1807.9
50°	2060.5	1983.3	1827.6	1697.5	1606.8	1507.7	1488.8	1514.5	1522.9	1580.3	1686.2
52.5°	1969.7	1884.3	1717.9	1581.8	1491.1	1396.6	1373.9	1398.9	1408.7	1464.6	1562.2
55°	1873.7	1781.5	1607.5	1475.2	1376.9	1284.7	1265.8	1275.6	1296.8	1349.7	1440.4
57.5°	1765.6	1674.1	1491.1	1356.5	1262.0	1173.5	1157.6	1166.7	1186.4	1237.8	1319.5
60°	1650.6	1553.9	1372.4	1237.8	1146.3	1062.4	1048.0	1056.3	1077.5	1124.4	1200.0
62.5°	1537.2	1428.3	1249.9	1116.1	1032.9	955.0	951.2	948.2	967.9	1013.2	1079.8
65°	1399.6	1295.3	1122.1	995.1	919.5	849.1	834.0	840.8	859.7	901.3	970.9
67.5°	1252.2	1157.6	991.3	874.1	806.8	744.0	731.2	734.2	753.9	790.2	850.7
70°	1095.6	1012.5	857.5	752.4	695.6	636.7	628.3	629.1	648.0	679.8	732.7
72.5°	931.6	856.7	722.1	632.1	585.3	542.9	535.3	526.3	543.7	570.9	616.3
75°	764.5	698.7	587.5	514.2	477.1	441.6	434.8	425.7	443.1	466.5	502.1
77.5°	595.8	542.9	456.7	400.0	371.3	344.8	338.7	328.9	346.3	363.7	391.7
80°	431.0	392.4	341.0	281.3	271.5	254.1	248.0	237.4	254.1	265.4	286.6
82.5°	278.3	252.5	223.1	181.5	180.0	167.1	164.1	152.0	167.1	173.9	189.8
85°	140.6	128.5	121.0	92.2	95.3	87.0	86.2	73.3	85.4	88.5	97.5
87.5°	40.1	42.3	37.8	22.7	28.7	27.2	27.2	19.7	27.2	27.2	31.0
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: P837763

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6	3241.6
2.5°	3244.6	3257.4	3260.5	3259.7	3268.0	3313.4	3298.3	3313.4
5°	3252.1	3280.9	3288.4	3299.0	3312.6	3364.1	3347.4	3365.6
7.5°	3256.7	3299.8	3316.4	3336.8	3358.8	3416.2	3402.6	3420.8
10°	3256.7	3312.6	3336.8	3370.9	3400.3	3466.9	3454.0	3475.2
12.5°	3243.1	3314.9	3348.9	3396.6	3434.4	3506.2	3500.9	3516.0
15°	3215.1	3303.6	3350.4	3411.7	3458.6	3538.7	3536.5	3554.6
17.5°	3177.3	3283.9	3340.6	3417.7	3476.7	3566.7	3572.0	3581.8
20°	3129.7	3246.9	3321.0	3415.5	3489.6	3588.6	3595.4	3609.0
22.5°	3066.9	3202.2	3291.5	3405.6	3491.1	3597.7	3609.8	3622.7
25°	2992.8	3148.6	3252.9	3386.7	3483.5	3596.9	3613.6	3624.9
27.5°	2908.1	3079.0	3203.8	3356.5	3462.4	3584.8	3605.3	3618.9
30°	2809.8	3004.9	3147.8	3317.2	3433.6	3562.2	3584.1	3597.7
32.5°	2708.5	2923.2	3081.3	3266.5	3392.0	3525.9	3544.8	3555.4
35°	2598.1	2824.2	3001.1	3201.5	3338.3	3467.6	3482.0	3493.4
37.5°	2477.9	2716.8	2909.6	3128.1	3262.7	3386.7	3399.6	3412.4
40°	2353.9	2604.1	2806.8	3038.2	3172.8	3287.7	3301.3	3310.4
42.5°	2229.1	2479.4	2697.1	2932.3	3066.1	3176.5	3184.8	3193.9
45°	2102.8	2350.1	2573.9	2815.1	2947.4	3051.0	3054.0	3061.6
47.5°	1974.3	2216.2	2438.5	2681.3	2812.1	2906.6	2909.6	2915.7
50°	1845.0	2082.4	2294.1	2536.8	2664.6	2764.4	2750.8	2756.9
52.5°	1717.9	1941.8	2158.0	2381.1	2507.4	2595.8	2599.6	2587.5
55°	1593.2	1804.1	2003.0	2217.8	2338.0	2406.8	2404.5	2409.1
57.5°	1466.9	1665.0	1847.2	2043.8	2161.0	2226.1	2239.7	2223.8
60°	1338.4	1524.4	1687.7	1865.4	1978.8	2033.3	2049.1	2034.0
62.5°	1210.6	1381.5	1529.7	1684.7	1789.8	1857.1	1855.6	1838.9
65°	1082.8	1237.8	1370.1	1501.7	1593.2	1660.5	1657.5	1642.3
67.5°	964.8	1092.6	1211.3	1317.9	1397.3	1443.5	1459.3	1441.2
70°	834.8	945.2	1049.5	1135.0	1200.7	1242.3	1257.5	1241.6
72.5°	704.7	798.5	871.8	954.2	1004.9	1039.7	1055.6	1040.4
75°	576.2	653.3	713.0	777.3	812.8	842.3	860.5	845.4
77.5°	451.4	511.1	558.8	605.7	646.5	653.3	669.2	659.4
80°	332.7	375.8	410.6	441.6	471.1	474.1	487.0	480.9
82.5°	221.5	250.3	259.4	291.9	310.8	307.7	320.6	316.1
85°	117.2	134.6	150.5	160.3	170.9	161.1	172.4	167.9
87.5°	39.3	41.6	36.3	51.4	56.7	48.4	55.2	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)