

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: P838049

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-20-120-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: P838049
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-LD4-5LO-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

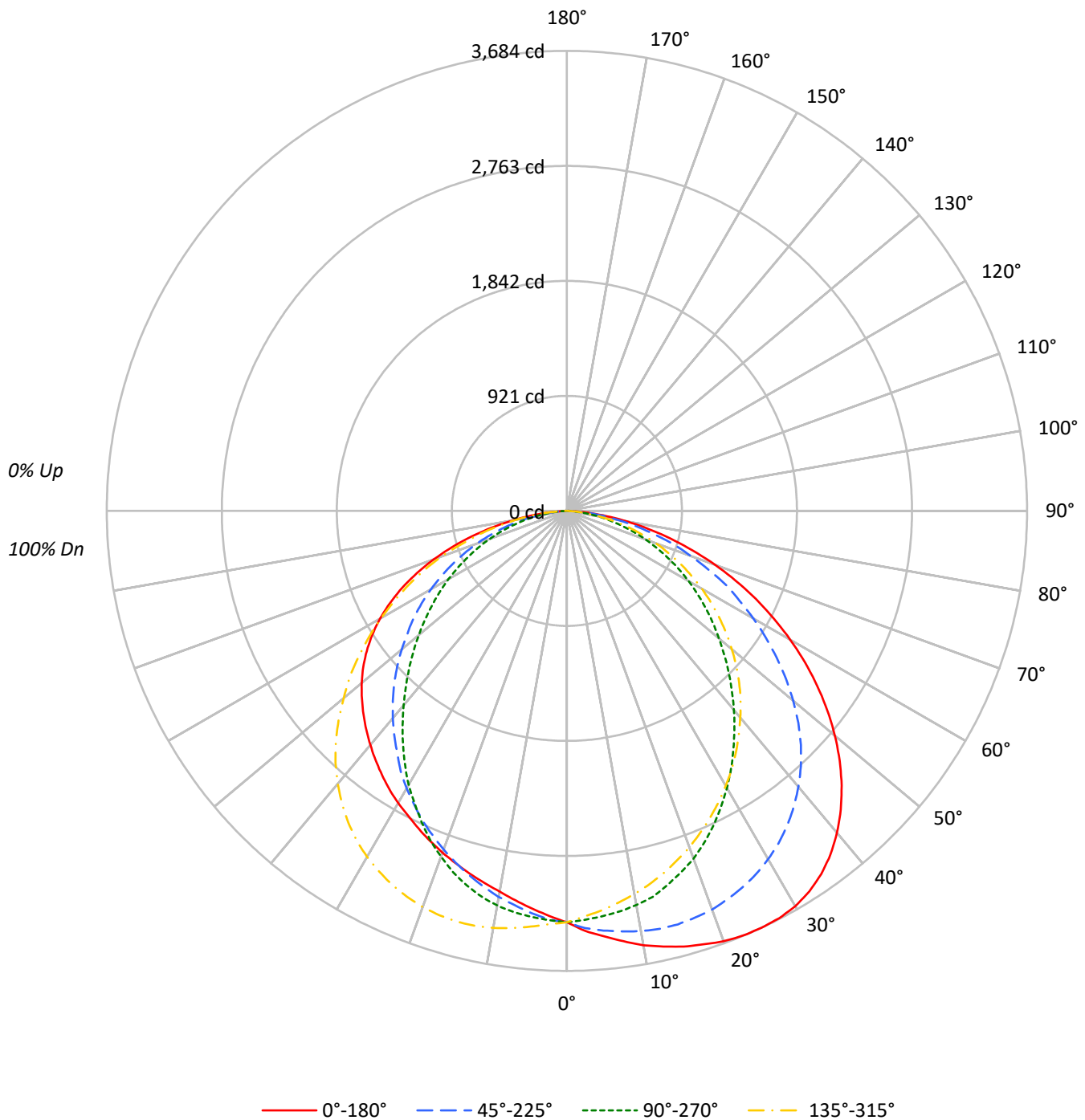
Lumens per Lamp: N/A
Luminaire Lumens: 9664.9 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	4432	4432	4432	4432
5°	4620	4400	4318	4408
10°	4825	4378	4230	4384
15°	5032	4322	4188	4323
20°	5252	4244	4170	4219
25°	5469	4125	4170	4083
30°	5680	3982	4198	3937
35°	5831	3818	4240	3757
40°	5909	3654	4299	3571
45°	5920	3487	4382	3400
50°	5865	3328	4489	3239
55°	5743	3180	4589	3092
60°	5563	3025	4651	2947
65°	5314	2848	4626	2782
70°	4964	2639	4462	2591
75°	4466	2353	4094	2341
80°	3787	1971	3442	2001
85°	2634	1304	2183	1340

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	3.2
10°-20°	905.7	9.4
20°-30°	1388.0	14.4
30°-40°	1687.8	17.5
40°-50°	1754.5	18.2
50°-60°	1584.9	16.4
60°-70°	1204.9	12.5
70°-80°	671.7	7.0
80°-90°	154.7	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°	2606.5	27.0
0°-40°	4294.2	44.4
0°-60°	7633.6	79.0
0°-90°	9664.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9664.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3294	3294	3294	3294	3294	
5°	3420	3258	3197	3264	3420	330
15°	3612	3103	3007	3104	3612	1024
25°	3684	2779	2809	2750	3684	1701
35°	3550	2324	2581	2288	3550	2217
45°	3111	1833	2303	1787	3111	2395
55°	2448	1356	1956	1318	2448	2186
65°	1669	894	1453	874	1669	1649
75°	859	453	788	450	859	913
85°	171	84	141	87	171	215
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°	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3
2.5°	3367.3	3318.1	3318.9	3361.9	3328.8	3345.0	3298.9	3316.5	3311.2	3315.0	3277.4
5°	3420.3	3367.3	3366.5	3403.4	3366.5	3373.4	3315.0	3326.5	3309.6	3298.9	3258.1
7.5°	3476.4	3423.4	3418.0	3450.3	3401.8	3396.5	3331.9	3331.9	3301.2	3274.3	3235.9
10°	3531.7	3477.1	3470.2	3494.8	3434.9	3417.2	3338.8	3326.5	3285.8	3245.9	3204.4
12.5°	3573.2	3517.9	3512.5	3527.9	3460.2	3428.0	3338.8	3315.0	3255.1	3199.0	3166.7
15°	3612.4	3555.5	3540.9	3548.6	3471.0	3428.0	3328.1	3291.2	3214.3	3140.6	3102.9
17.5°	3640.1	3585.5	3570.9	3570.1	3476.4	3414.9	3305.0	3254.3	3162.1	3073.0	3035.3
20°	3667.7	3613.2	3594.7	3580.9	3474.8	3397.2	3271.2	3202.8	3095.2	2995.3	2963.8
22.5°	3681.6	3625.5	3605.5	3584.7	3464.9	3365.0	3229.7	3142.9	3019.9	2900.8	2874.7
25°	3683.9	3626.2	3604.7	3574.7	3444.9	3326.5	3175.9	3070.6	2933.1	2800.9	2778.6
27.5°	3677.7	3614.7	3593.2	3557.1	3414.9	3279.7	3112.1	2988.4	2840.9	2694.9	2671.1
30°	3656.2	3592.4	3571.7	3524.8	3372.6	3222.0	3042.2	2897.0	2738.7	2583.5	2562.7
32.5°	3613.2	3550.9	3534.0	3487.1	3326.5	3155.2	2960.8	2798.6	2625.7	2477.4	2446.7
35°	3550.1	3487.9	3477.1	3428.0	3262.0	3075.3	2871.6	2691.0	2505.9	2354.5	2324.5
37.5°	3467.9	3415.7	3399.5	3351.1	3185.9	2984.6	2769.4	2574.2	2383.7	2220.8	2202.3
40°	3364.2	3315.0	3302.7	3259.7	3097.5	2883.9	2658.8	2453.6	2257.6	2106.3	2080.1
42.5°	3245.9	3199.7	3192.8	3148.3	2988.4	2772.5	2538.9	2328.3	2126.2	1980.2	1954.1
45°	3111.4	3066.8	3065.3	3023.0	2869.3	2648.8	2412.9	2201.6	1997.9	1846.5	1832.7
47.5°	2963.1	2923.1	2923.1	2883.9	2736.4	2512.8	2283.0	2069.4	1868.8	1735.1	1710.5
50°	2801.7	2764.0	2752.5	2733.3	2589.6	2364.5	2146.2	1940.3	1741.3	1613.7	1589.9
52.5°	2629.6	2597.3	2605.0	2569.6	2430.5	2210.0	2007.9	1795.1	1612.9	1496.9	1473.1
55°	2448.2	2402.1	2409.0	2396.0	2264.6	2050.9	1852.7	1675.2	1486.9	1377.8	1355.5
57.5°	2260.0	2200.0	2224.6	2216.9	2087.8	1888.0	1710.5	1539.2	1361.7	1261.0	1239.5
60°	2067.1	2009.4	2034.8	2027.9	1906.5	1725.1	1563.8	1404.7	1237.2	1145.7	1124.2
62.5°	1868.8	1815.8	1838.9	1833.5	1722.1	1558.4	1417.8	1271.8	1111.9	1029.7	1009.7
65°	1669.0	1618.3	1639.1	1635.2	1532.3	1407.8	1267.9	1134.2	985.9	914.4	894.5
67.5°	1464.6	1417.8	1437.0	1437.0	1342.4	1223.3	1117.3	995.1	862.2	800.7	782.3
70°	1261.8	1218.0	1234.9	1233.3	1153.4	1056.6	965.1	856.0	736.9	686.2	670.8
72.5°	1057.4	1018.9	1034.3	1032.8	965.9	903.7	813.0	718.5	614.7	574.0	560.2
75°	859.1	823.0	837.6	836.1	781.5	723.1	662.4	584.0	494.9	466.4	452.6
77.5°	670.1	633.2	645.5	645.5	605.5	563.3	514.8	454.1	391.1	360.4	350.4
80°	488.7	471.0	464.9	465.7	438.8	411.1	386.5	328.1	282.0	261.3	254.4
82.5°	321.2	306.6	300.5	302.0	286.6	269.7	254.4	213.6	182.9	170.6	166.7
85°	170.6	159.8	154.5	158.3	155.2	146.0	138.3	110.7	91.4	86.8	84.5
87.5°	53.8	46.9	43.0	56.9	48.4	43.0	41.5	33.0	25.4	25.4	24.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3
2.5°	3289.7	3289.7	3259.7	3252.8	3249.7	3253.5	3223.6	3218.2	3261.2	3246.6	3213.6
5°	3263.5	3262.0	3219.7	3212.0	3212.0	3207.4	3173.6	3165.9	3209.0	3196.7	3160.6
7.5°	3231.3	3226.6	3176.7	3171.3	3163.6	3160.6	3122.9	3117.5	3154.4	3146.7	3112.9
10°	3192.1	3187.4	3128.3	3124.4	3116.0	3109.8	3074.5	3070.6	3108.3	3096.0	3069.1
12.5°	3140.6	3132.1	3071.4	3067.6	3060.7	3058.4	3023.8	3022.2	3063.7	3051.4	3023.0
15°	3073.0	3066.0	2998.4	3000.0	3000.7	3000.7	2973.1	2971.5	3012.2	3006.9	2976.1
17.5°	2998.4	2989.2	2924.6	2929.3	2934.6	2940.8	2919.3	2923.1	2966.1	2959.2	2931.6
20°	2913.9	2904.7	2841.7	2854.7	2866.2	2878.5	2864.7	2875.5	2915.4	2912.4	2891.6
22.5°	2819.4	2810.2	2751.7	2771.7	2790.9	2814.0	2807.8	2820.1	2862.4	2861.6	2843.2
25°	2704.1	2706.4	2654.9	2679.5	2711.8	2744.1	2746.4	2766.3	2813.2	2808.6	2791.7
27.5°	2596.5	2599.6	2545.0	2586.5	2629.6	2671.1	2681.1	2708.7	2756.4	2752.5	2737.9
30°	2483.6	2487.4	2434.4	2491.3	2543.5	2594.2	2615.7	2653.4	2701.8	2701.8	2686.4
32.5°	2366.0	2372.9	2317.6	2393.7	2454.4	2513.5	2551.2	2590.4	2645.7	2644.2	2631.1
35°	2245.4	2253.0	2202.3	2299.1	2359.9	2432.1	2479.0	2531.2	2580.4	2581.2	2571.2
37.5°	2122.4	2131.6	2085.5	2191.6	2260.7	2346.0	2406.0	2458.2	2512.8	2515.8	2506.6
40°	2000.2	2010.2	1970.3	2072.5	2160.1	2255.3	2324.5	2386.0	2445.9	2447.5	2441.3
42.5°	1878.0	1888.8	1858.8	1958.7	2057.9	2160.1	2241.5	2311.4	2372.9	2376.8	2369.8
45°	1758.9	1768.2	1746.6	1855.8	1951.0	2062.5	2156.2	2235.4	2297.6	2303.0	2300.7
47.5°	1640.6	1649.1	1629.8	1729.7	1839.6	1958.0	2066.3	2153.9	2220.0	2226.1	2224.6
50°	1524.6	1531.5	1510.7	1615.2	1724.4	1850.4	1963.3	2064.8	2138.5	2144.7	2143.9
52.5°	1409.3	1416.2	1398.5	1508.4	1607.6	1740.5	1863.4	1973.3	2046.3	2055.6	2057.1
55°	1297.9	1301.0	1287.1	1392.4	1488.4	1627.5	1768.9	1875.7	1948.7	1956.4	1961.0
57.5°	1186.5	1187.2	1175.7	1276.4	1368.6	1510.7	1659.0	1771.2	1840.4	1848.1	1855.0
60°	1075.8	1075.0	1062.0	1159.6	1247.9	1388.6	1543.0	1654.4	1721.3	1728.2	1737.4
62.5°	965.9	963.6	952.1	1042.0	1125.0	1264.1	1419.3	1526.9	1590.7	1595.3	1607.6
65°	856.8	854.5	843.7	926.7	1002.0	1135.0	1287.1	1389.3	1447.0	1453.1	1450.8
67.5°	749.2	744.6	736.2	810.7	879.1	1002.0	1148.0	1245.6	1293.3	1298.6	1313.2
70°	641.6	636.3	617.0	696.2	756.1	866.0	1002.0	1088.9	1128.8	1134.2	1131.9
72.5°	535.6	530.2	509.5	582.5	633.2	729.2	850.7	922.9	957.5	962.1	962.1
75°	432.6	429.6	416.5	471.8	514.1	592.5	695.4	755.4	782.3	787.6	786.1
77.5°	333.5	331.2	318.1	365.8	398.8	457.2	540.2	587.1	607.1	613.2	626.3
80°	239.0	238.2	217.5	264.3	278.9	328.1	388.8	424.9	435.7	444.2	453.4
82.5°	152.9	153.7	132.9	172.9	179.0	210.5	248.2	270.5	278.2	285.1	292.0
85°	74.5	77.6	66.1	91.4	92.2	108.3	124.5	132.9	136.0	141.4	147.5
87.5°	19.2	22.3	12.3	26.1	23.1	30.0	34.6	36.9	36.1	40.0	42.3
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°	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3
2.5°	3224.3	3248.9	3236.6	3276.6	3292.0	3267.4	3310.4	3311.2	3280.4	3316.5	3336.5
5°	3174.4	3199.7	3192.1	3233.6	3252.8	3231.3	3283.5	3293.5	3263.5	3304.3	3336.5
7.5°	3123.7	3153.6	3143.6	3185.9	3209.0	3192.1	3248.2	3264.3	3241.2	3285.8	3328.8
10°	3079.9	3105.2	3094.5	3139.0	3159.0	3145.2	3200.5	3230.5	3209.0	3263.5	3315.0
12.5°	3036.8	3057.6	3045.3	3082.2	3101.4	3083.7	3151.3	3179.0	3163.6	3220.5	3286.6
15°	2981.5	3004.6	2987.7	3020.7	3035.3	3019.9	3075.3	3122.9	3103.7	3165.9	3238.9
17.5°	2939.2	2952.3	2929.3	2955.4	2963.8	2943.1	2999.2	3046.1	3032.2	3099.8	3184.4
20°	2892.4	2903.1	2870.9	2885.5	2884.7	2858.6	2910.0	2956.2	2946.9	3021.5	3117.5
22.5°	2840.1	2845.5	2807.8	2810.9	2809.4	2766.3	2812.5	2859.3	2855.5	2930.8	3038.4
25°	2784.8	2785.6	2737.1	2735.6	2718.7	2668.0	2708.7	2761.7	2750.2	2831.7	2944.6
27.5°	2730.2	2722.5	2664.1	2650.3	2623.4	2562.7	2598.8	2646.5	2639.6	2719.5	2844.7
30°	2671.8	2661.8	2590.4	2565.0	2525.8	2455.9	2485.9	2530.4	2534.3	2604.2	2735.6
32.5°	2616.5	2591.1	2512.0	2475.1	2425.9	2344.5	2360.6	2406.0	2412.1	2482.8	2618.0
35°	2545.0	2528.1	2430.5	2367.5	2319.1	2230.0	2246.9	2278.4	2287.6	2356.8	2494.3
37.5°	2477.4	2450.5	2346.8	2269.9	2207.7	2114.0	2118.6	2150.8	2160.1	2230.0	2366.0
40°	2407.5	2369.1	2257.6	2167.7	2096.3	1997.9	1992.5	2026.4	2033.3	2101.7	2224.6
42.5°	2333.0	2286.8	2161.6	2063.2	1981.0	1881.1	1870.4	1899.6	1907.2	1974.1	2094.7
45°	2257.6	2202.3	2063.2	1955.7	1865.7	1763.5	1752.8	1775.1	1786.6	1849.6	1965.6
47.5°	2177.7	2113.2	1961.8	1841.9	1748.9	1646.7	1633.7	1656.0	1665.2	1727.4	1837.3
50°	2094.0	2015.6	1857.3	1725.1	1632.9	1532.3	1513.0	1539.2	1547.6	1606.0	1713.6
52.5°	2001.8	1914.9	1745.9	1607.6	1515.3	1419.3	1396.2	1421.6	1431.6	1488.4	1587.6
55°	1904.2	1810.4	1633.7	1499.2	1399.3	1305.6	1286.4	1296.3	1317.9	1371.6	1463.9
57.5°	1794.3	1701.3	1515.3	1378.6	1282.5	1192.6	1176.5	1185.7	1205.7	1257.9	1340.9
60°	1677.5	1579.1	1394.7	1257.9	1164.9	1079.6	1065.0	1073.5	1095.0	1142.7	1219.5
62.5°	1562.2	1451.6	1270.2	1134.2	1049.7	970.5	966.7	963.6	983.6	1029.7	1097.3
65°	1422.4	1316.3	1140.4	1011.3	934.4	862.9	847.6	854.5	873.7	916.0	986.7
67.5°	1272.5	1176.5	1007.4	888.3	819.9	756.1	743.1	746.1	766.1	803.0	864.5
70°	1113.5	1028.9	871.4	764.6	707.0	647.0	638.6	639.3	658.5	690.8	744.6
72.5°	946.7	870.6	733.9	642.4	594.8	551.7	544.0	534.8	552.5	580.2	626.3
75°	776.9	710.0	597.1	522.5	484.9	448.8	441.8	432.6	450.3	474.1	510.2
77.5°	605.5	551.7	464.1	406.5	377.3	350.4	344.3	334.3	351.9	369.6	398.0
80°	438.0	398.8	346.6	285.9	275.9	258.2	252.0	241.3	258.2	269.7	291.2
82.5°	282.8	256.7	226.7	184.4	182.9	169.8	166.7	154.5	169.8	176.7	192.9
85°	142.9	130.6	122.9	93.7	96.8	88.4	87.6	74.5	86.8	89.9	99.1
87.5°	40.7	43.0	38.4	23.1	29.2	27.7	27.7	20.0	27.7	27.7	31.5
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: P838049

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3	3294.3
2.5°	3297.3	3310.4	3313.5	3312.7	3321.2	3367.3	3351.9	3367.3
5°	3305.0	3334.2	3341.9	3352.7	3366.5	3418.7	3401.8	3420.3
7.5°	3309.6	3353.4	3370.3	3391.1	3413.4	3471.8	3457.9	3476.4
10°	3309.6	3366.5	3391.1	3425.7	3455.6	3523.3	3510.2	3531.7
12.5°	3295.8	3368.8	3403.4	3451.8	3490.2	3563.2	3557.8	3573.2
15°	3267.4	3357.3	3404.9	3467.2	3514.8	3596.3	3593.9	3612.4
17.5°	3228.9	3337.3	3394.9	3473.3	3533.2	3624.7	3630.1	3640.1
20°	3180.5	3299.6	3374.9	3471.0	3546.3	3647.0	3653.9	3667.7
22.5°	3116.8	3254.3	3345.0	3461.0	3547.8	3656.2	3668.5	3681.6
25°	3041.4	3199.7	3305.8	3441.8	3540.2	3655.4	3672.3	3683.9
27.5°	2955.4	3129.0	3255.8	3411.1	3518.6	3643.1	3663.9	3677.7
30°	2855.5	3053.7	3199.0	3371.1	3489.4	3620.1	3642.4	3656.2
32.5°	2752.5	2970.8	3131.4	3319.6	3447.2	3583.2	3602.4	3613.2
35°	2640.3	2870.1	3049.9	3253.5	3392.6	3524.0	3538.6	3550.1
37.5°	2518.1	2761.0	2956.9	3179.0	3315.8	3441.8	3454.9	3467.9
40°	2392.1	2646.5	2852.4	3087.6	3224.3	3341.1	3355.0	3364.2
42.5°	2265.3	2519.7	2741.0	2980.0	3116.0	3228.2	3236.6	3245.9
45°	2137.0	2388.3	2615.7	2860.9	2995.3	3100.6	3103.7	3111.4
47.5°	2006.4	2252.3	2478.2	2724.9	2857.8	2953.8	2956.9	2963.1
50°	1875.0	2116.3	2331.4	2578.1	2707.9	2809.4	2795.6	2801.7
52.5°	1745.9	1973.3	2193.1	2419.8	2548.1	2638.0	2641.9	2629.6
55°	1619.1	1833.5	2035.6	2253.8	2376.0	2445.9	2443.6	2448.2
57.5°	1490.8	1692.1	1877.3	2077.1	2196.2	2262.3	2276.1	2260.0
60°	1360.1	1549.2	1715.1	1895.7	2011.0	2066.3	2082.4	2067.1
62.5°	1230.3	1403.9	1554.5	1712.1	1818.9	1887.3	1885.7	1868.8
65°	1100.4	1257.9	1392.4	1526.1	1619.1	1687.5	1684.4	1669.0
67.5°	980.5	1110.4	1231.0	1339.4	1420.1	1466.9	1483.1	1464.6
70°	848.3	960.5	1066.6	1153.4	1220.3	1262.5	1277.9	1261.8
72.5°	716.2	811.5	886.0	969.8	1021.2	1056.6	1072.7	1057.4
75°	585.5	663.9	724.6	789.9	826.1	856.0	874.5	859.1
77.5°	458.8	519.5	567.9	615.5	657.0	663.9	680.1	670.1
80°	338.1	381.9	417.3	448.8	478.7	481.8	494.9	488.7
82.5°	225.2	254.4	263.6	296.6	315.8	312.8	325.8	321.2
85°	119.1	136.8	152.9	162.9	173.7	163.7	175.2	170.6
87.5°	40.0	42.3	36.9	52.3	57.6	49.2	56.1	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)