

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: P837730

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-27-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837730
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-LD4-3HI-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

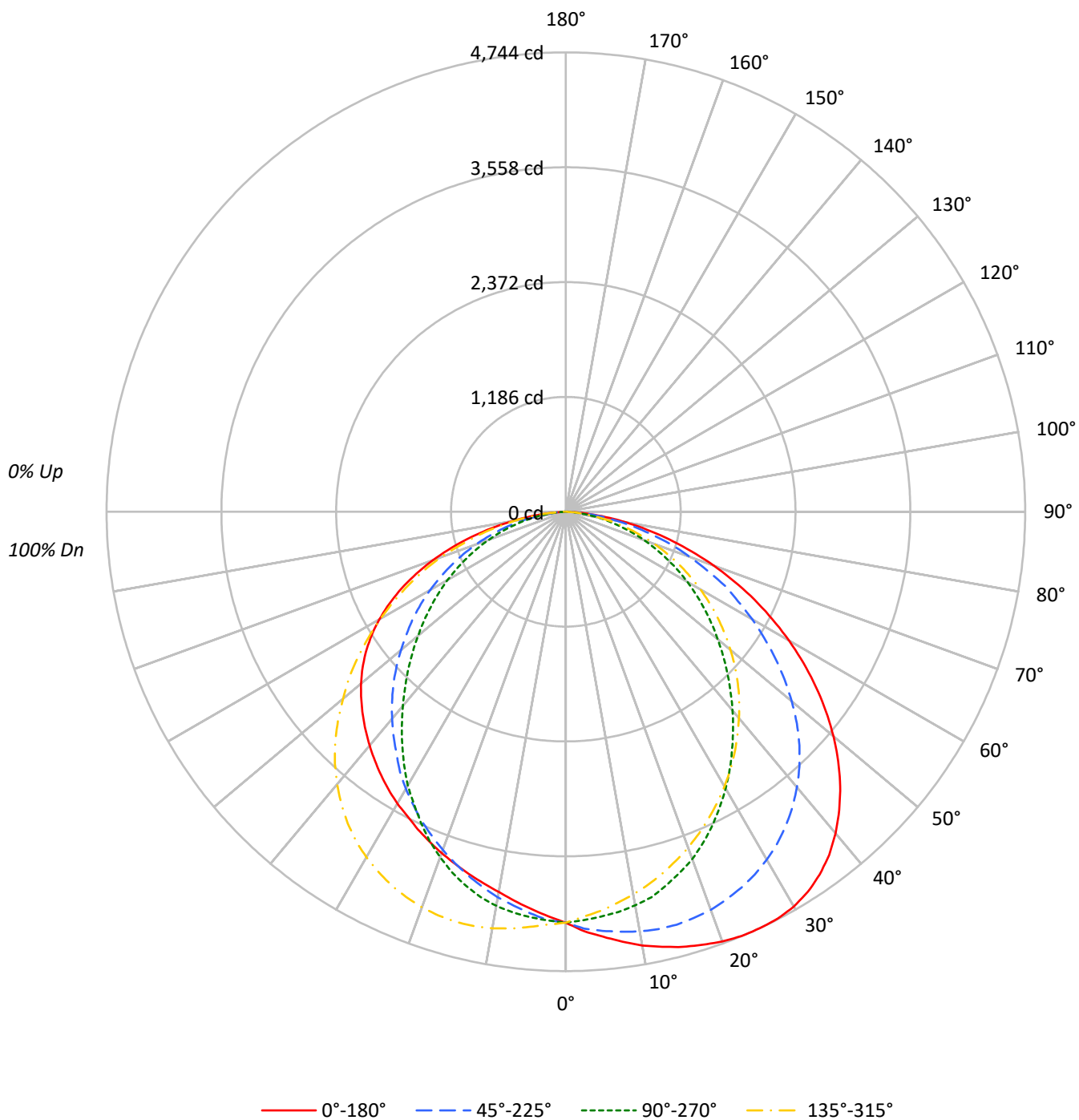
Lumens per Lamp: N/A
Luminaire Lumens: 12447.4 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	11417	11417	11417	11417
5°	11899	11335	11121	11354
10°	12429	11277	10895	11293
15°	12961	11133	10788	11136
20°	13527	10931	10741	10869
25°	14087	10625	10740	10517
30°	14632	10256	10812	10142
35°	15020	9835	10921	9678
40°	15220	9411	11073	9199
45°	15249	8982	11287	8757
50°	15106	8572	11563	8344
55°	14793	8191	11821	7963
60°	14328	7793	11979	7590
65°	13687	7335	11916	7165
70°	12785	6798	11493	6673
75°	11503	6060	10547	6029
80°	9754	5077	8864	5153
85°	6783	3362	5622	3452

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	3.2
10°-20°	1166.4	9.4
20°-30°	1787.6	14.4
30°-40°	2173.6	17.5
40°-50°	2259.6	18.2
50°-60°	2041.1	16.4
60°-70°	1551.8	12.5
70°-80°	865.1	7.0
80°-90°	199.2	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°	3356.9	27.0
0°-40°	5530.5	44.4
0°-60°	9831.3	79.0
0°-90°	12447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12447.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4243	4243	4243	4243	4243	
5°	4405	4196	4117	4203	4405	425
15°	4652	3996	3872	3997	4652	1319
25°	4744	3579	3617	3542	4744	2191
35°	4572	2994	3324	2946	4572	2856
45°	4007	2360	2966	2301	4007	3085
55°	3153	1746	2520	1697	3153	2815
65°	2150	1152	1871	1125	2150	2124
75°	1106	583	1014	580	1106	1175
85°	220	109	182	112	220	277
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°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4336.7	4273.3	4274.3	4329.7	4287.2	4308.0	4248.6	4271.4	4264.4	4269.4	4220.9
5°	4405.0	4336.7	4335.7	4383.2	4335.7	4344.6	4269.4	4284.2	4262.5	4248.6	4196.1
7.5°	4477.2	4408.9	4402.0	4443.6	4381.2	4374.3	4291.2	4291.2	4251.6	4216.9	4167.4
10°	4548.5	4478.2	4469.3	4501.0	4423.8	4401.0	4300.1	4284.2	4231.8	4180.3	4126.9
12.5°	4601.9	4530.6	4523.7	4543.5	4456.4	4414.9	4300.1	4269.4	4192.2	4119.9	4078.4
15°	4652.4	4579.1	4560.3	4570.2	4470.3	4414.9	4286.2	4238.7	4139.7	4044.7	3996.2
17.5°	4688.0	4617.7	4598.9	4597.9	4477.2	4398.0	4256.5	4191.2	4072.4	3957.6	3909.1
20°	4723.6	4653.4	4629.6	4611.8	4475.2	4375.3	4213.0	4124.9	3986.3	3857.7	3817.1
22.5°	4741.4	4669.2	4643.5	4616.7	4462.4	4333.7	4159.5	4047.7	3889.4	3736.0	3702.3
25°	4744.4	4670.2	4642.5	4603.9	4436.6	4284.2	4090.3	3954.7	3777.5	3607.3	3578.6
27.5°	4736.5	4655.3	4627.6	4581.1	4398.0	4223.9	4008.1	3848.8	3658.8	3470.7	3440.0
30°	4708.8	4626.6	4599.9	4539.6	4343.6	4149.6	3918.1	3731.0	3527.1	3327.2	3300.5
32.5°	4653.4	4573.2	4551.4	4491.1	4284.2	4063.5	3813.1	3604.3	3381.7	3190.7	3151.1
35°	4572.2	4492.1	4478.2	4414.9	4201.1	3960.6	3698.3	3465.8	3227.3	3032.3	2993.7
37.5°	4466.3	4399.0	4378.2	4315.9	4103.1	3843.8	3566.7	3315.3	3069.9	2860.1	2836.4
40°	4332.7	4269.4	4253.5	4198.1	3989.3	3714.2	3424.2	3160.0	2907.6	2712.6	2679.0
42.5°	4180.3	4120.9	4112.0	4054.6	3848.8	3570.7	3269.8	2998.7	2738.4	2550.3	2516.7
45°	4007.1	3949.7	3947.7	3893.3	3695.4	3411.3	3107.5	2835.4	2573.1	2378.1	2360.3
47.5°	3816.1	3764.7	3764.7	3714.2	3524.2	3236.2	2940.3	2665.1	2406.8	2234.6	2203.0
50°	3608.3	3559.8	3544.9	3520.2	3335.1	3045.2	2764.1	2498.9	2242.6	2078.3	2047.6
52.5°	3386.6	3345.0	3354.9	3309.4	3130.3	2846.3	2586.0	2311.8	2077.3	1927.9	1897.2
55°	3153.0	3093.7	3102.6	3085.7	2916.5	2641.4	2386.1	2157.5	1915.0	1774.5	1745.8
57.5°	2910.6	2833.4	2865.1	2855.2	2688.9	2431.6	2203.0	1982.3	1753.7	1624.0	1596.3
60°	2662.2	2588.0	2620.6	2611.7	2455.3	2221.8	2014.0	1809.1	1593.3	1475.6	1447.9
62.5°	2406.8	2338.6	2368.2	2361.3	2217.8	2007.0	1825.9	1637.9	1432.0	1326.1	1300.4
65°	2149.5	2084.2	2110.9	2106.0	1973.4	1813.1	1632.9	1460.7	1269.7	1177.7	1152.0
67.5°	1886.3	1825.9	1850.7	1850.7	1728.9	1575.5	1439.0	1281.6	1110.4	1031.2	1007.5
70°	1625.0	1568.6	1590.4	1588.4	1485.5	1360.8	1243.0	1102.5	949.1	883.8	864.0
72.5°	1361.8	1312.3	1332.1	1330.1	1244.0	1163.8	1047.1	925.3	791.7	739.3	721.5
75°	1106.4	1059.9	1078.7	1076.7	1006.5	931.3	853.1	752.1	637.3	600.7	582.9
77.5°	863.0	815.5	831.3	831.3	779.8	725.4	663.1	584.9	503.7	464.1	451.3
80°	629.4	606.7	598.7	599.7	565.1	529.5	497.8	422.6	363.2	336.5	327.6
82.5°	413.7	394.9	387.0	388.9	369.1	347.4	327.6	275.1	235.5	219.7	214.8
85°	219.7	205.8	198.9	203.9	199.9	188.0	178.1	142.5	117.8	111.8	108.9
87.5°	69.3	60.4	55.4	73.2	62.3	55.4	53.4	42.6	32.7	32.7	31.7
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°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4236.7	4236.7	4198.1	4189.2	4185.3	4190.2	4151.6	4144.7	4200.1	4181.3	4138.7
5°	4203.1	4201.1	4146.7	4136.8	4136.8	4130.8	4087.3	4077.4	4132.8	4117.0	4070.5
7.5°	4161.5	4155.6	4091.2	4084.3	4074.4	4070.5	4022.0	4015.0	4062.5	4052.6	4009.1
10°	4111.0	4105.1	4028.9	4023.9	4013.1	4005.1	3959.6	3954.7	4003.2	3987.3	3952.7
12.5°	4044.7	4033.8	3955.7	3950.7	3941.8	3938.8	3894.3	3892.3	3945.8	3929.9	3893.3
15°	3957.6	3948.7	3861.6	3863.6	3864.6	3864.6	3829.0	3827.0	3879.5	3872.5	3832.9
17.5°	3861.6	3849.8	3766.6	3772.6	3779.5	3787.4	3759.7	3764.7	3820.1	3811.2	3775.5
20°	3752.8	3740.9	3659.7	3676.6	3691.4	3707.3	3689.4	3703.3	3754.8	3750.8	3724.1
22.5°	3631.0	3619.2	3544.0	3569.7	3594.4	3624.1	3616.2	3632.0	3686.5	3685.5	3661.7
25°	3482.6	3485.6	3419.3	3450.9	3492.5	3534.1	3537.0	3562.8	3623.1	3617.2	3595.4
27.5°	3344.0	3348.0	3277.7	3331.2	3386.6	3440.0	3452.9	3488.5	3549.9	3544.9	3526.1
30°	3198.6	3203.5	3135.2	3208.5	3275.8	3341.1	3368.8	3417.3	3479.6	3479.6	3459.8
32.5°	3047.2	3056.1	2984.8	3082.8	3161.0	3237.2	3285.7	3336.1	3407.4	3405.4	3388.6
35°	2891.8	2901.7	2836.4	2961.1	3039.2	3132.3	3192.6	3259.9	3323.3	3324.3	3311.4
37.5°	2733.4	2745.3	2685.9	2822.5	2911.6	3021.4	3098.6	3165.9	3236.2	3240.1	3228.3
40°	2576.1	2588.9	2537.5	2669.1	2781.9	2904.6	2993.7	3072.9	3150.1	3152.1	3144.1
42.5°	2418.7	2432.6	2394.0	2522.6	2650.3	2781.9	2886.8	2976.9	3056.1	3061.0	3052.1
45°	2265.3	2277.2	2249.5	2390.0	2512.7	2656.2	2777.0	2878.9	2959.1	2966.0	2963.0
47.5°	2112.9	2123.8	2099.1	2227.7	2369.2	2521.6	2661.2	2774.0	2859.1	2867.0	2865.1
50°	1963.5	1972.4	1945.7	2080.3	2220.8	2383.1	2528.6	2659.2	2754.2	2762.1	2761.1
52.5°	1815.0	1823.9	1801.2	1942.7	2070.4	2241.6	2399.9	2541.4	2635.5	2647.3	2649.3
55°	1671.5	1675.5	1657.7	1793.3	1917.0	2096.1	2278.2	2415.8	2509.8	2519.7	2525.6
57.5°	1528.0	1529.0	1514.2	1643.8	1762.6	1945.7	2136.7	2281.2	2370.2	2380.1	2389.0
60°	1385.5	1384.5	1367.7	1493.4	1607.2	1788.3	1987.2	2130.7	2216.8	2225.7	2237.6
62.5°	1244.0	1241.0	1226.2	1342.0	1448.9	1628.0	1827.9	1966.4	2048.6	2054.5	2070.4
65°	1103.5	1100.5	1086.6	1193.5	1290.5	1461.7	1657.7	1789.3	1863.5	1871.4	1868.5
67.5°	964.9	959.0	948.1	1044.1	1132.2	1290.5	1478.5	1604.2	1665.6	1672.5	1691.3
70°	826.4	819.4	794.7	896.6	973.8	1115.3	1290.5	1402.3	1453.8	1460.7	1457.8
72.5°	689.8	682.9	656.1	750.2	815.5	939.2	1095.5	1188.6	1233.1	1239.1	1239.1
75°	557.2	553.2	536.4	607.6	662.1	763.0	895.6	972.8	1007.5	1014.4	1012.4
77.5°	429.5	426.5	409.7	471.1	513.6	588.8	695.7	756.1	781.8	789.7	806.6
80°	307.8	306.8	280.1	340.4	359.2	422.6	500.8	547.3	561.1	572.0	583.9
82.5°	196.9	197.9	171.2	222.7	230.6	271.2	319.7	348.4	358.3	367.2	376.1
85°	96.0	100.0	85.1	117.8	118.8	139.5	160.3	171.2	175.2	182.1	190.0
87.5°	24.7	28.7	15.8	33.6	29.7	38.6	44.5	47.5	46.5	51.5	54.4
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°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4152.6	4184.3	4168.4	4219.9	4239.7	4208.0	4263.4	4264.4	4224.8	4271.4	4297.1
5°	4088.3	4120.9	4111.0	4164.5	4189.2	4161.5	4228.8	4241.7	4203.1	4255.5	4297.1
7.5°	4023.0	4061.6	4048.7	4103.1	4132.8	4111.0	4183.3	4204.1	4174.4	4231.8	4287.2
10°	3966.5	3999.2	3985.3	4042.7	4068.5	4050.7	4121.9	4160.5	4132.8	4203.1	4269.4
12.5°	3911.1	3937.8	3922.0	3969.5	3994.3	3971.5	4058.6	4094.2	4074.4	4147.7	4232.8
15°	3839.9	3869.6	3847.8	3890.3	3909.1	3889.4	3960.6	4022.0	3997.2	4077.4	4171.4
17.5°	3785.4	3802.3	3772.6	3806.2	3817.1	3790.4	3862.6	3923.0	3905.2	3992.3	4101.1
20°	3725.1	3738.9	3697.4	3716.2	3715.2	3681.5	3747.8	3807.2	3795.3	3891.3	4015.0
22.5°	3657.8	3664.7	3616.2	3620.2	3618.2	3562.8	3622.1	3682.5	3677.6	3774.6	3913.1
25°	3586.5	3587.5	3525.2	3523.2	3501.4	3436.1	3488.5	3556.8	3542.0	3646.9	3792.4
27.5°	3516.2	3506.4	3431.1	3413.3	3378.7	3300.5	3347.0	3408.4	3399.5	3502.4	3663.7
30°	3441.0	3428.2	3336.1	3303.5	3253.0	3162.9	3201.5	3258.9	3263.9	3353.9	3523.2
32.5°	3369.8	3337.1	3235.2	3187.7	3124.3	3019.4	3040.2	3098.6	3106.5	3197.6	3371.8
35°	3277.7	3256.0	3130.3	3049.1	2986.8	2872.0	2893.8	2934.3	2946.2	3035.3	3212.4
37.5°	3190.7	3156.0	3022.4	2923.4	2843.3	2722.5	2728.5	2770.0	2781.9	2872.0	3047.2
40°	3100.6	3051.1	2907.6	2791.8	2699.8	2573.1	2566.2	2609.7	2618.6	2706.7	2865.1
42.5°	3004.6	2945.2	2783.9	2657.2	2551.3	2422.7	2408.8	2446.4	2456.3	2542.4	2697.8
45°	2907.6	2836.4	2657.2	2518.7	2402.9	2271.3	2257.4	2286.1	2301.0	2382.1	2531.5
47.5°	2804.7	2721.6	2526.6	2372.2	2252.5	2120.8	2104.0	2132.7	2144.6	2224.7	2366.3
50°	2696.8	2595.9	2392.0	2221.8	2103.0	1973.4	1948.6	1982.3	1993.2	2068.4	2206.9
52.5°	2578.1	2466.2	2248.5	2070.4	1951.6	1827.9	1798.2	1830.9	1843.7	1917.0	2044.6
55°	2452.4	2331.6	2104.0	1930.8	1802.2	1681.4	1656.7	1669.6	1697.3	1766.5	1885.3
57.5°	2310.8	2191.1	1951.6	1775.4	1651.7	1535.9	1515.2	1527.0	1552.8	1620.1	1727.0
60°	2160.4	2033.7	1796.2	1620.1	1500.3	1390.5	1371.7	1382.6	1410.3	1471.6	1570.6
62.5°	2012.0	1869.5	1635.9	1460.7	1351.9	1249.9	1245.0	1241.0	1266.8	1326.1	1413.2
65°	1831.9	1695.3	1468.7	1302.4	1203.4	1111.4	1091.6	1100.5	1125.2	1179.7	1270.7
67.5°	1638.9	1515.2	1297.4	1144.0	1056.0	973.8	957.0	961.0	986.7	1034.2	1113.4
70°	1434.0	1325.2	1122.3	984.7	910.5	833.3	822.4	823.4	848.1	889.7	959.0
72.5°	1219.3	1121.3	945.1	827.4	766.0	710.6	700.7	688.8	711.6	747.2	806.6
75°	1000.5	914.4	769.0	673.0	624.5	578.0	569.1	557.2	579.9	610.6	657.1
77.5°	779.8	710.6	597.8	523.5	485.9	451.3	443.4	430.5	453.3	476.0	512.6
80°	564.1	513.6	446.3	368.2	355.3	332.5	324.6	310.8	332.5	347.4	375.1
82.5°	364.2	330.5	291.9	237.5	235.5	218.7	214.8	198.9	218.7	227.6	248.4
85°	184.1	168.2	158.3	120.7	124.7	113.8	112.8	96.0	111.8	115.8	127.7
87.5°	52.5	55.4	49.5	29.7	37.6	35.6	35.6	25.7	35.6	35.6	40.6
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: P837730

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4246.6	4263.4	4267.4	4266.4	4277.3	4336.7	4316.9	4336.7
5°	4256.5	4294.1	4304.0	4317.9	4335.7	4403.0	4381.2	4405.0
7.5°	4262.5	4318.9	4340.6	4367.4	4396.1	4471.3	4453.5	4477.2
10°	4262.5	4335.7	4367.4	4411.9	4450.5	4537.6	4520.8	4548.5
12.5°	4244.6	4338.7	4383.2	4445.5	4495.0	4589.0	4582.1	4601.9
15°	4208.0	4323.8	4385.2	4465.3	4526.7	4631.6	4628.6	4652.4
17.5°	4158.5	4298.1	4372.3	4473.2	4550.4	4668.2	4675.1	4688.0
20°	4096.2	4249.6	4346.6	4470.3	4567.3	4696.9	4705.8	4723.6
22.5°	4014.0	4191.2	4308.0	4457.4	4569.2	4708.8	4724.6	4741.4
25°	3917.1	4120.9	4257.5	4432.7	4559.3	4707.8	4729.6	4744.4
27.5°	3806.2	4029.9	4193.2	4393.1	4531.6	4692.0	4718.7	4736.5
30°	3677.6	3932.9	4119.9	4341.6	4494.0	4662.3	4691.0	4708.8
32.5°	3544.9	3826.0	4032.9	4275.3	4439.6	4614.8	4639.5	4653.4
35°	3400.5	3696.4	3927.9	4190.2	4369.3	4538.6	4557.4	4572.2
37.5°	3243.1	3555.8	3808.2	4094.2	4270.4	4432.7	4449.5	4466.3
40°	3080.8	3408.4	3673.6	3976.4	4152.6	4303.0	4320.8	4332.7
42.5°	2917.5	3245.1	3530.1	3837.9	4013.1	4157.5	4168.4	4180.3
45°	2752.2	3075.9	3368.8	3684.5	3857.7	3993.3	3997.2	4007.1
47.5°	2584.0	2900.7	3191.6	3509.3	3680.5	3804.2	3808.2	3816.1
50°	2414.8	2725.5	3002.6	3320.3	3487.5	3618.2	3600.4	3608.3
52.5°	2248.5	2541.4	2824.5	3116.4	3281.7	3397.5	3402.4	3386.6
55°	2085.2	2361.3	2621.6	2902.7	3060.0	3150.1	3147.1	3153.0
57.5°	1919.9	2179.2	2417.7	2675.0	2828.4	2913.5	2931.4	2910.6
60°	1751.7	1995.1	2208.9	2441.5	2589.9	2661.2	2682.0	2662.2
62.5°	1584.4	1808.1	2002.1	2205.0	2342.5	2430.6	2428.6	2406.8
65°	1417.2	1620.1	1793.3	1965.5	2085.2	2173.3	2169.3	2149.5
67.5°	1262.8	1430.1	1585.4	1725.0	1828.9	1889.3	1910.0	1886.3
70°	1092.6	1237.1	1373.6	1485.5	1571.6	1626.0	1645.8	1625.0
72.5°	922.4	1045.1	1141.1	1248.9	1315.3	1360.8	1381.6	1361.8
75°	754.1	855.1	933.2	1017.4	1063.9	1102.5	1126.2	1106.4
77.5°	590.8	669.0	731.4	792.7	846.2	855.1	875.8	863.0
80°	435.4	491.9	537.4	578.0	616.6	620.5	637.3	629.4
82.5°	290.0	327.6	339.5	382.0	406.7	402.8	419.6	413.7
85°	153.4	176.2	196.9	209.8	223.7	210.8	225.6	219.7
87.5°	51.5	54.4	47.5	67.3	74.2	63.3	72.2	69.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)