

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: P837756

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3STD-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837756
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-LD4-3STD-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

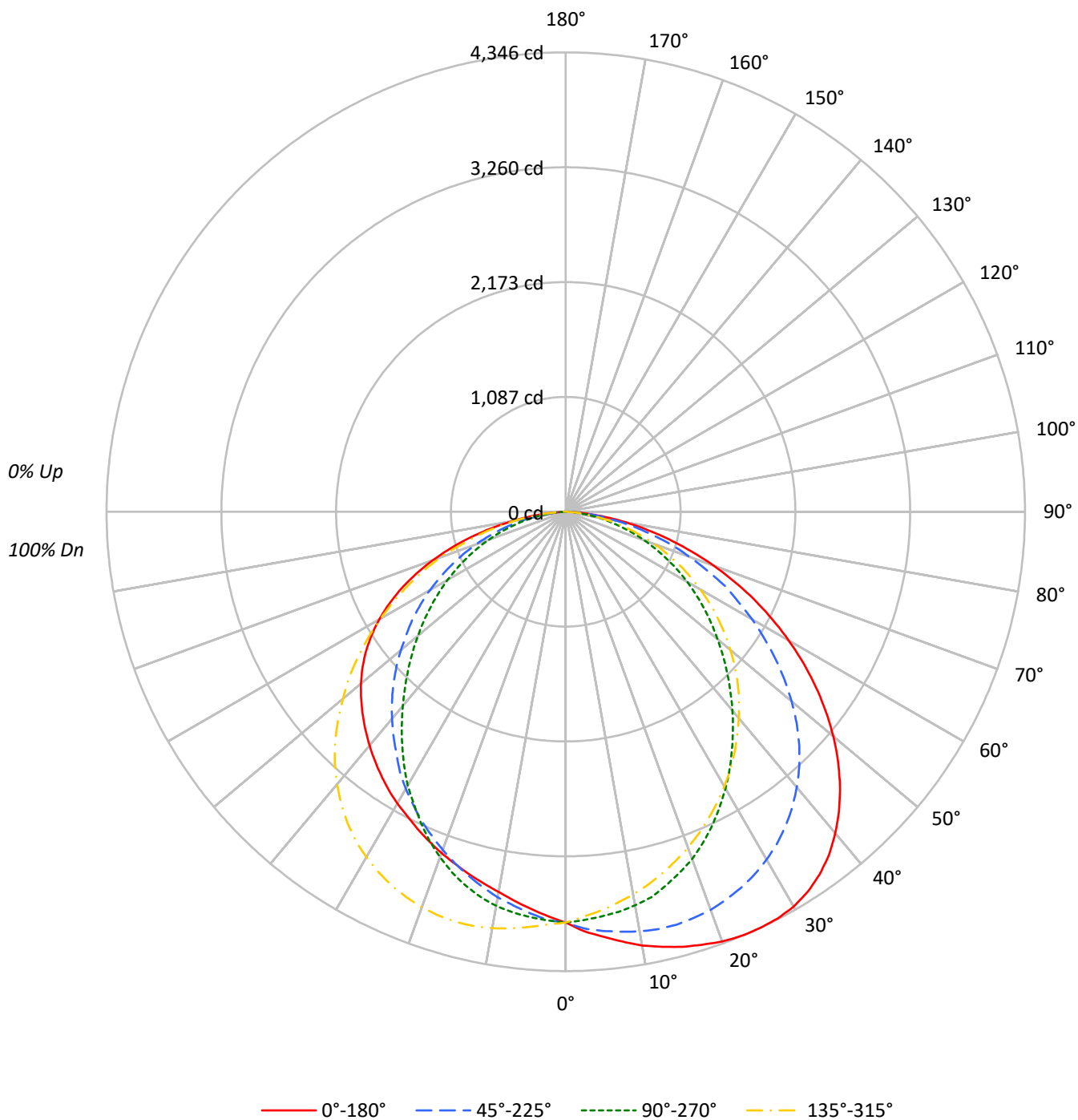
Lumens per Lamp: N/A
Luminaire Lumens: 11402.5 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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

TEST NUMBER: P837756

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10458	10458	10458	10458
5°	10900	10383	10188	10401
10°	11385	10330	9981	10345
15°	11873	10199	9883	10201
20°	12391	10013	9839	9956
25°	12905	9734	9839	9634
30°	13403	9395	9904	9290
35°	13759	9009	10004	8866
40°	13942	8621	10143	8427
45°	13969	8229	10340	8021
50°	13838	7852	10593	7644
55°	13551	7503	10829	7294
60°	13125	7138	10973	6953
65°	12538	6720	10916	6564
70°	11712	6227	10528	6113
75°	10539	5552	9661	5524
80°	8935	4651	8120	4720
85°	6215	3078	5150	3162

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	3.2
10°-20°	1068.5	9.4
20°-30°	1637.6	14.4
30°-40°	1991.2	17.5
40°-50°	2070.0	18.2
50°-60°	1869.8	16.4
60°-70°	1421.5	12.5
70°-80°	792.5	7.0
80°-90°	182.5	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°	3075.1	27.0
0°-40°	5066.3	44.4
0°-60°	9006.0	79.0
0°-90°	11402.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11402.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3886	3886	3886	3886	3886	
5°	4035	3844	3771	3850	4035	389
15°	4262	3661	3548	3662	4262	1208
25°	4346	3278	3314	3245	4346	2007
35°	4188	2742	3045	2699	4188	2616
45°	3671	2162	2717	2108	3671	2826
55°	2888	1599	2308	1555	2888	2578
65°	1969	1055	1714	1031	1969	1946
75°	1014	534	929	531	1014	1077
85°	201	100	167	102	201	253
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°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	3972.6	3914.6	3915.5	3966.3	3927.3	3946.3	3892.0	3912.8	3906.5	3911.0	3866.6
5°	4035.2	3972.6	3971.7	4015.2	3971.7	3979.9	3911.0	3924.6	3904.6	3892.0	3843.9
7.5°	4101.4	4038.8	4032.5	4070.5	4013.4	4007.1	3930.9	3930.9	3894.7	3862.9	3817.6
10°	4166.6	4102.3	4094.1	4123.1	4052.4	4031.6	3939.1	3924.6	3876.5	3829.4	3780.4
12.5°	4215.6	4150.3	4144.0	4162.1	4082.3	4044.3	3939.1	3911.0	3840.3	3774.1	3736.0
15°	4261.8	4194.8	4177.5	4186.6	4095.0	4044.3	3926.4	3882.9	3792.2	3705.2	3660.8
17.5°	4294.5	4230.1	4212.9	4212.0	4101.4	4028.8	3899.2	3839.4	3730.6	3625.4	3581.0
20°	4327.1	4262.7	4241.0	4224.7	4099.6	4008.0	3859.3	3778.6	3651.7	3533.9	3496.7
22.5°	4343.4	4277.3	4253.7	4229.2	4087.8	3969.9	3810.4	3707.9	3562.9	3422.3	3391.5
25°	4346.2	4278.2	4252.8	4217.4	4064.2	3924.6	3746.9	3622.7	3460.4	3304.5	3278.2
27.5°	4338.9	4264.6	4239.2	4196.6	4028.8	3869.3	3671.7	3525.7	3351.6	3179.4	3151.3
30°	4313.5	4238.3	4213.8	4158.5	3979.0	3801.3	3589.2	3417.8	3231.1	3047.9	3023.4
32.5°	4262.7	4189.3	4169.4	4114.1	3924.6	3722.4	3493.1	3301.8	3097.8	2922.8	2886.6
35°	4188.4	4115.0	4102.3	4044.3	3848.4	3628.1	3387.9	3174.8	2956.4	2777.8	2742.4
37.5°	4091.4	4029.8	4010.7	3953.6	3758.7	3521.2	3267.3	3037.0	2812.2	2620.0	2598.3
40°	3969.0	3911.0	3896.5	3845.7	3654.4	3402.4	3136.8	2894.7	2663.5	2484.9	2454.1
42.5°	3829.4	3775.0	3766.8	3714.3	3525.7	3270.9	2995.3	2746.9	2508.5	2336.3	2305.4
45°	3670.7	3618.2	3616.4	3566.5	3385.2	3125.0	2846.7	2597.4	2357.1	2178.5	2162.2
47.5°	3495.8	3448.6	3448.6	3402.4	3228.3	2964.5	2693.5	2441.4	2204.8	2047.1	2018.0
50°	3305.4	3261.0	3247.4	3224.7	3055.2	2789.6	2532.1	2289.1	2054.3	1903.8	1875.7
52.5°	3102.3	3064.2	3073.3	3031.6	2867.5	2607.3	2368.9	2117.8	1902.9	1766.0	1737.9
55°	2888.4	2834.0	2842.1	2826.7	2671.7	2419.7	2185.8	1976.3	1754.2	1625.5	1599.2
57.5°	2666.3	2595.5	2624.6	2615.5	2463.2	2227.5	2018.0	1815.9	1606.5	1487.7	1462.3
60°	2438.7	2370.7	2400.6	2392.5	2249.2	2035.3	1844.9	1657.2	1459.6	1351.7	1326.3
62.5°	2204.8	2142.3	2169.4	2163.1	2031.6	1838.5	1672.6	1500.4	1311.8	1214.8	1191.2
65°	1969.1	1909.3	1933.7	1929.2	1807.7	1660.9	1495.9	1338.1	1163.1	1078.8	1055.3
67.5°	1727.9	1672.6	1695.3	1695.3	1583.8	1443.3	1318.2	1174.0	1017.2	944.7	922.9
70°	1488.6	1436.9	1456.9	1455.1	1360.8	1246.5	1138.7	1009.9	869.4	809.6	791.4
72.5°	1247.5	1202.1	1220.3	1218.4	1139.6	1066.1	959.2	847.7	725.3	677.2	660.9
75°	1013.6	970.9	988.2	986.4	922.0	853.1	781.5	689.0	583.8	550.3	534.0
77.5°	790.5	747.0	761.5	761.5	714.4	664.5	607.4	535.8	461.4	425.2	413.4
80°	576.6	555.7	548.5	549.4	517.7	485.0	456.0	387.1	332.7	308.2	300.1
82.5°	379.0	361.7	354.5	356.3	338.2	318.2	300.1	252.0	215.8	201.3	196.7
85°	201.3	188.6	182.2	186.8	183.1	172.3	163.2	130.5	107.9	102.4	99.7
87.5°	63.5	55.3	50.8	67.1	57.1	50.8	49.0	39.0	29.9	29.9	29.0
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°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	3881.1	3881.1	3845.7	3837.6	3833.9	3838.5	3803.1	3796.8	3847.5	3830.3	3791.3
5°	3850.3	3848.4	3798.6	3789.5	3789.5	3784.1	3744.2	3735.1	3785.9	3771.4	3728.8
7.5°	3812.2	3806.7	3747.8	3741.5	3732.4	3728.8	3684.3	3678.0	3721.5	3712.5	3672.6
10°	3765.9	3760.5	3690.7	3686.2	3676.2	3668.9	3627.2	3622.7	3667.1	3652.6	3620.9
12.5°	3705.2	3695.2	3623.6	3619.1	3610.9	3608.2	3567.4	3565.6	3614.5	3600.0	3566.5
15°	3625.4	3617.3	3537.5	3539.3	3540.2	3540.2	3507.6	3505.7	3553.8	3547.5	3511.2
17.5°	3537.5	3526.6	3450.4	3455.9	3462.2	3469.5	3444.1	3448.6	3499.4	3491.2	3458.6
20°	3437.8	3426.9	3352.5	3367.9	3381.5	3396.1	3379.7	3392.4	3439.6	3435.9	3411.5
22.5°	3326.2	3315.4	3246.5	3270.0	3292.7	3319.9	3312.6	3327.2	3377.0	3376.1	3354.4
25°	3190.3	3193.0	3132.2	3161.2	3199.3	3237.4	3240.1	3263.7	3319.0	3313.6	3293.6
27.5°	3063.3	3067.0	3002.6	3051.6	3102.3	3151.3	3163.1	3195.7	3251.9	3247.4	3230.1
30°	2930.1	2934.6	2872.0	2939.1	3000.8	3060.6	3086.0	3130.4	3187.5	3187.5	3169.4
32.5°	2791.4	2799.5	2734.2	2824.0	2895.6	2965.4	3009.8	3056.1	3121.4	3119.5	3104.1
35°	2649.0	2658.1	2598.3	2712.5	2784.1	2869.3	2924.6	2986.3	3044.3	3045.2	3033.4
37.5°	2504.0	2514.9	2460.5	2585.6	2667.2	2767.8	2838.5	2900.2	2964.5	2968.1	2957.3
40°	2359.8	2371.6	2324.5	2445.0	2548.4	2660.8	2742.4	2814.9	2885.6	2887.5	2880.2
42.5°	2215.7	2228.4	2193.0	2310.9	2427.8	2548.4	2644.5	2727.0	2799.5	2804.1	2795.9
45°	2075.2	2086.0	2060.7	2189.4	2301.8	2433.3	2543.9	2637.2	2710.7	2717.0	2714.3
47.5°	1935.6	1945.5	1922.9	2040.7	2170.4	2310.0	2437.8	2541.1	2619.1	2626.4	2624.6
50°	1798.7	1806.8	1782.3	1905.6	2034.4	2183.0	2316.3	2436.0	2523.0	2530.3	2529.4
52.5°	1662.7	1670.8	1650.0	1779.6	1896.6	2053.4	2198.5	2328.1	2414.2	2425.1	2426.9
55°	1531.2	1534.8	1518.5	1642.7	1756.0	1920.1	2086.9	2213.0	2299.1	2308.2	2313.6
57.5°	1399.8	1400.7	1387.1	1505.8	1614.6	1782.3	1957.3	2089.7	2171.3	2180.3	2188.5
60°	1269.2	1268.3	1252.9	1368.0	1472.3	1638.2	1820.4	1951.9	2030.7	2038.9	2049.8
62.5°	1139.6	1136.9	1123.3	1229.3	1327.2	1491.3	1674.5	1801.4	1876.6	1882.1	1896.6
65°	1010.8	1008.1	995.4	1093.3	1182.2	1339.0	1518.5	1639.1	1707.1	1714.3	1711.6
67.5°	883.9	878.5	868.5	956.4	1037.1	1182.2	1354.4	1469.6	1525.8	1532.1	1549.3
70°	757.0	750.6	728.0	821.4	892.1	1021.7	1182.2	1284.6	1331.8	1338.1	1335.4
72.5°	631.9	625.5	601.1	687.2	747.0	860.3	1003.6	1088.8	1129.6	1135.0	1135.0
75°	510.4	506.8	491.4	556.6	606.5	699.0	820.5	891.2	922.9	929.2	927.4
77.5°	393.5	390.7	375.3	431.5	470.5	539.4	637.3	692.6	716.2	723.5	738.9
80°	281.9	281.0	256.6	311.9	329.1	387.1	458.7	501.3	514.0	524.0	534.9
82.5°	180.4	181.3	156.8	204.0	211.2	248.4	292.8	319.1	328.2	336.3	344.5
85°	87.9	91.6	78.0	107.9	108.8	127.8	146.9	156.8	160.5	166.8	174.1
87.5°	22.7	26.3	14.5	30.8	27.2	35.4	40.8	43.5	42.6	47.1	49.9
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°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	3804.0	3833.0	3818.5	3865.7	3883.8	3854.8	3905.6	3906.5	3870.2	3912.8	3936.4
5°	3745.1	3775.0	3765.9	3814.9	3837.6	3812.2	3873.8	3885.6	3850.3	3898.3	3936.4
7.5°	3685.3	3720.6	3708.8	3758.7	3785.9	3765.9	3832.1	3851.2	3824.0	3876.5	3927.3
10°	3633.6	3663.5	3650.8	3703.4	3727.0	3710.6	3775.9	3811.3	3785.9	3850.3	3911.0
12.5°	3582.8	3607.3	3592.8	3636.3	3659.0	3638.1	3717.9	3750.5	3732.4	3799.5	3877.4
15°	3517.5	3544.7	3524.8	3563.8	3581.0	3562.9	3628.1	3684.3	3661.7	3735.1	3821.2
17.5°	3467.7	3483.1	3455.9	3486.7	3496.7	3472.2	3538.4	3593.7	3577.4	3657.1	3756.9
20°	3412.4	3425.1	3387.0	3404.2	3403.3	3372.5	3433.2	3487.6	3476.7	3564.7	3678.0
22.5°	3350.7	3357.1	3312.6	3316.3	3314.5	3263.7	3318.1	3373.4	3368.9	3457.7	3584.6
25°	3285.5	3286.4	3229.2	3227.4	3207.5	3147.7	3195.7	3258.3	3244.7	3340.8	3474.0
27.5°	3221.1	3212.0	3143.1	3126.8	3095.1	3023.4	3066.1	3122.3	3114.1	3208.4	3356.2
30°	3152.2	3140.4	3056.1	3026.2	2979.9	2897.4	2932.8	2985.4	2989.9	3072.4	3227.4
32.5°	3086.9	3057.0	2963.6	2920.1	2862.1	2766.0	2785.0	2838.5	2845.8	2929.2	3088.7
35°	3002.6	2982.7	2867.5	2793.2	2736.1	2630.9	2650.8	2688.0	2698.9	2780.5	2942.8
37.5°	2922.8	2891.1	2768.7	2678.0	2604.6	2494.0	2499.4	2537.5	2548.4	2630.9	2791.4
40°	2840.3	2795.0	2663.5	2557.5	2473.2	2357.1	2350.8	2390.7	2398.8	2479.5	2624.6
42.5°	2752.4	2698.0	2550.2	2434.2	2337.2	2219.3	2206.6	2241.1	2250.1	2329.0	2471.3
45°	2663.5	2598.3	2434.2	2307.2	2201.2	2080.6	2067.9	2094.2	2107.8	2182.1	2319.0
47.5°	2569.3	2493.1	2314.5	2173.1	2063.4	1942.8	1927.4	1953.7	1964.6	2038.0	2167.6
50°	2470.4	2378.0	2191.2	2035.3	1926.5	1807.7	1785.1	1815.9	1825.9	1894.8	2021.7
52.5°	2361.6	2259.2	2059.8	1896.6	1787.8	1674.5	1647.3	1677.2	1689.0	1756.0	1873.0
55°	2246.5	2135.9	1927.4	1768.7	1650.9	1540.3	1517.6	1529.4	1554.8	1618.2	1727.0
57.5°	2116.9	2007.2	1787.8	1626.4	1513.1	1407.0	1388.0	1398.9	1422.4	1484.1	1582.0
60°	1979.1	1863.0	1645.4	1484.1	1374.4	1273.7	1256.5	1266.5	1291.9	1348.1	1438.7
62.5°	1843.1	1712.5	1498.6	1338.1	1238.4	1145.0	1140.5	1136.9	1160.4	1214.8	1294.6
65°	1678.1	1553.0	1345.4	1193.1	1102.4	1018.1	1000.0	1008.1	1030.8	1080.6	1164.1
67.5°	1501.3	1388.0	1188.5	1048.0	967.3	892.1	876.7	880.3	903.9	947.4	1019.9
70°	1313.6	1213.9	1028.1	902.0	834.1	763.3	753.4	754.3	776.9	815.0	878.5
72.5°	1116.9	1027.2	865.8	757.9	701.7	650.9	641.9	631.0	651.8	684.5	738.9
75°	916.6	837.7	704.4	616.5	572.1	529.4	521.3	510.4	531.3	559.4	602.0
77.5°	714.4	650.9	547.6	479.6	445.1	413.4	406.1	394.4	415.2	436.1	469.6
80°	516.8	470.5	408.9	337.2	325.5	304.6	297.4	284.7	304.6	318.2	343.6
82.5°	333.6	302.8	267.4	217.6	215.8	200.4	196.7	182.2	200.4	208.5	227.6
85°	168.6	154.1	145.1	110.6	114.2	104.3	103.4	87.9	102.4	106.1	116.9
87.5°	48.0	50.8	45.3	27.2	34.5	32.6	32.6	23.6	32.6	32.6	37.2
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: P837756

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5	3886.5
2.5°	3890.1	3905.6	3909.2	3908.3	3918.2	3972.6	3954.5	3972.6
5°	3899.2	3933.7	3942.7	3955.4	3971.7	4033.4	4013.4	4035.2
7.5°	3904.6	3956.3	3976.3	4000.7	4027.0	4095.9	4079.6	4101.4
10°	3904.6	3971.7	4000.7	4041.5	4076.9	4156.7	4141.3	4166.6
12.5°	3888.3	3974.5	4015.2	4072.4	4117.7	4203.8	4197.5	4215.6
15°	3854.8	3960.9	4017.1	4090.5	4146.7	4242.8	4240.1	4261.8
17.5°	3809.5	3937.3	4005.3	4097.7	4168.5	4276.3	4282.7	4294.5
20°	3752.3	3892.9	3981.7	4095.0	4183.9	4302.6	4310.8	4327.1
22.5°	3677.1	3839.4	3946.3	4083.2	4185.7	4313.5	4328.0	4343.4
25°	3588.2	3775.0	3900.1	4060.6	4176.6	4312.6	4332.6	4346.2
27.5°	3486.7	3691.6	3841.2	4024.3	4151.2	4298.1	4322.6	4338.9
30°	3368.9	3602.8	3774.1	3977.2	4116.8	4270.9	4297.2	4313.5
32.5°	3247.4	3504.8	3694.3	3916.4	4066.9	4227.4	4250.1	4262.7
35°	3115.0	3386.1	3598.2	3838.5	4002.6	4157.6	4174.8	4188.4
37.5°	2970.9	3257.3	3488.5	3750.5	3911.9	4060.6	4076.0	4091.4
40°	2822.2	3122.3	3365.2	3642.6	3804.0	3941.8	3958.1	3969.0
42.5°	2672.6	2972.7	3233.8	3515.7	3676.2	3808.5	3818.5	3829.4
45°	2521.2	2817.7	3086.0	3375.2	3533.9	3658.1	3661.7	3670.7
47.5°	2367.1	2657.2	2923.7	3214.7	3371.6	3484.9	3488.5	3495.8
50°	2212.1	2496.7	2750.6	3041.6	3194.8	3314.5	3298.1	3305.4
52.5°	2059.8	2328.1	2587.4	2854.8	3006.2	3112.3	3116.8	3102.3
55°	1910.2	2163.1	2401.5	2659.0	2803.1	2885.6	2882.9	2888.4
57.5°	1758.8	1996.3	2214.8	2450.5	2591.0	2669.0	2685.3	2666.3
60°	1604.6	1827.7	2023.5	2236.5	2372.5	2437.8	2456.8	2438.7
62.5°	1451.4	1656.3	1834.0	2019.9	2145.9	2226.6	2224.8	2204.8
65°	1298.2	1484.1	1642.7	1800.5	1910.2	1990.9	1987.2	1969.1
67.5°	1156.8	1310.0	1452.3	1580.2	1675.4	1730.7	1749.7	1727.9
70°	1000.9	1133.2	1258.3	1360.8	1439.7	1489.5	1507.6	1488.6
72.5°	844.9	957.3	1045.3	1144.1	1204.8	1246.5	1265.6	1247.5
75°	690.8	783.3	854.9	932.0	974.6	1009.9	1031.7	1013.6
77.5°	541.2	612.8	670.0	726.2	775.1	783.3	802.3	790.5
80°	398.9	450.6	492.3	529.4	564.8	568.4	583.8	576.6
82.5°	265.6	300.1	311.0	349.9	372.6	369.0	384.4	379.0
85°	140.5	161.4	180.4	192.2	204.9	193.1	206.7	201.3
87.5°	47.1	49.9	43.5	61.6	68.0	58.0	66.2	63.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)