

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: P838118

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838118
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-LD4-4LO-40-120-EDD
Description: 2FT 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

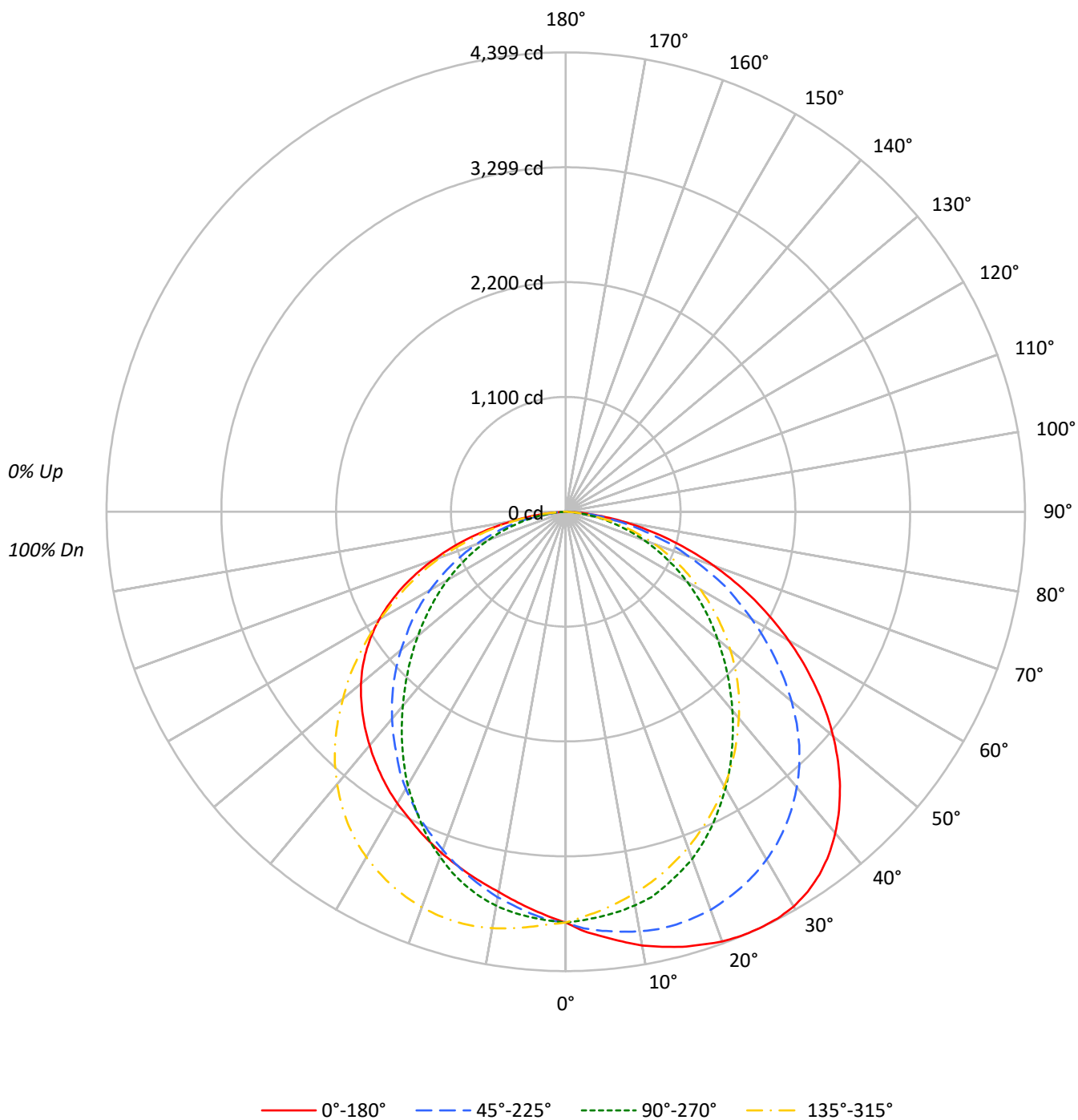
Lumens per Lamp: N/A
Luminaire Lumens: 11540.6 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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: P838118

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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°	5293	5293	5293	5293
5°	5516	5254	5155	5263
10°	5762	5228	5051	5235
15°	6008	5161	5001	5162
20°	6271	5067	4979	5038
25°	6530	4926	4979	4875
30°	6783	4754	5012	4701
35°	6963	4559	5062	4487
40°	7056	4363	5133	4264
45°	7069	4164	5233	4059
50°	7003	3974	5361	3868
55°	6857	3797	5480	3691
60°	6642	3612	5553	3518
65°	6345	3400	5524	3322
70°	5927	3151	5328	3093
75°	5333	2809	4889	2795
80°	4522	2353	4109	2389
85°	3145	1558	2606	1601

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	3.2
10°-20°	1081.5	9.4
20°-30°	1657.4	14.4
30°-40°	2015.3	17.5
40°-50°	2095.0	18.2
50°-60°	1892.4	16.4
60°-70°	1438.7	12.5
70°-80°	802.1	7.0
80°-90°	184.7	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°	3112.3	27.0
0°-40°	5127.6	44.4
0°-60°	9115.1	79.0
0°-90°	11540.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11540.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3934	3934	3934	3934	3934	
5°	4084	3890	3817	3897	4084	394
15°	4313	3705	3590	3706	4313	1223
25°	4399	3318	3354	3284	4399	2032
35°	4239	2776	3082	2732	4239	2648
45°	3715	2188	2750	2133	3715	2860
55°	2923	1619	2336	1574	2923	2610
65°	1993	1068	1735	1043	1993	1969
75°	1026	540	940	538	1026	1090
85°	204	101	169	104	204	256
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°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	4020.7	3962.0	3962.9	4014.3	3974.9	3994.1	3939.1	3960.2	3953.8	3958.3	3913.4
5°	4084.1	4020.7	4019.8	4063.9	4019.8	4028.1	3958.3	3972.1	3951.9	3939.1	3890.4
7.5°	4151.0	4087.7	4081.3	4119.8	4062.0	4055.6	3978.5	3978.5	3941.8	3909.7	3863.8
10°	4217.1	4152.0	4143.7	4173.1	4101.5	4080.4	3986.8	3972.1	3923.5	3875.8	3826.2
12.5°	4266.6	4200.6	4194.2	4212.5	4131.8	4093.2	3986.8	3958.3	3886.8	3819.8	3781.3
15°	4313.4	4245.5	4228.1	4237.3	4144.6	4093.2	3973.9	3929.9	3838.1	3750.1	3705.1
17.5°	4346.5	4281.3	4263.9	4263.0	4151.0	4077.6	3946.4	3885.9	3775.8	3669.3	3624.4
20°	4379.5	4314.4	4292.3	4275.8	4149.2	4056.5	3906.0	3824.4	3695.9	3576.6	3539.0
22.5°	4396.0	4329.0	4305.2	4280.4	4137.3	4018.0	3856.5	3752.8	3606.0	3463.8	3432.6
25°	4398.8	4330.0	4304.3	4268.5	4113.4	3972.1	3792.3	3666.6	3502.3	3344.5	3317.9
27.5°	4391.4	4316.2	4290.5	4247.4	4077.6	3916.1	3716.1	3568.4	3392.2	3217.9	3189.4
30°	4365.7	4289.6	4264.8	4208.8	4027.2	3847.3	3632.6	3459.2	3270.2	3084.8	3060.1
32.5°	4314.4	4240.0	4219.9	4163.9	3972.1	3767.5	3535.4	3341.7	3135.3	2958.2	2921.5
35°	4239.1	4164.8	4152.0	4093.2	3895.0	3672.1	3428.9	3213.3	2992.2	2811.4	2775.6
37.5°	4140.9	4078.5	4059.3	4001.5	3804.2	3563.8	3306.9	3073.8	2846.3	2651.7	2629.7
40°	4017.1	3958.3	3943.7	3892.3	3698.7	3443.6	3174.8	2929.8	2695.8	2515.0	2483.8
42.5°	3875.8	3820.7	3812.5	3759.2	3568.4	3310.6	3031.6	2780.2	2538.9	2364.5	2333.4
45°	3715.2	3662.0	3660.1	3609.7	3426.2	3162.8	2881.1	2628.8	2385.7	2204.9	2188.4
47.5°	3538.1	3490.4	3490.4	3443.6	3267.4	3000.4	2726.1	2471.0	2231.5	2071.8	2042.5
50°	3345.4	3300.5	3286.7	3263.8	3092.2	2823.3	2562.7	2316.8	2079.2	1926.9	1898.4
52.5°	3139.9	3101.3	3110.5	3068.3	2902.2	2638.9	2397.6	2143.4	1926.0	1787.4	1759.0
55°	2923.3	2868.3	2876.5	2860.9	2704.0	2449.0	2212.2	2000.3	1775.5	1645.2	1618.6
57.5°	2698.5	2627.0	2656.3	2647.2	2493.0	2254.4	2042.5	1837.9	1625.9	1505.7	1480.0
60°	2468.2	2399.4	2429.7	2421.4	2276.5	2059.9	1867.2	1677.3	1477.3	1368.1	1342.4
62.5°	2231.5	2168.2	2195.7	2189.3	2056.2	1860.8	1692.9	1518.6	1327.7	1229.5	1205.7
65°	1992.9	1932.4	1957.2	1952.6	1829.6	1681.0	1514.0	1354.3	1177.2	1091.9	1068.0
67.5°	1748.9	1692.9	1715.8	1715.8	1603.0	1460.8	1334.1	1188.2	1029.5	956.1	934.1
70°	1506.6	1454.3	1474.5	1472.7	1377.3	1261.6	1152.5	1022.2	879.9	819.4	801.0
72.5°	1262.6	1216.7	1235.0	1233.2	1153.4	1079.0	970.8	857.9	734.0	685.4	668.9
75°	1025.8	982.7	1000.1	998.3	933.2	863.4	790.9	697.3	590.9	557.0	540.4
77.5°	800.1	756.1	770.7	770.7	723.0	672.6	614.8	542.3	467.0	430.3	418.4
80°	583.6	562.5	555.1	556.0	523.9	490.9	461.5	391.8	336.7	312.0	303.7
82.5°	383.5	366.1	358.8	360.6	342.2	322.1	303.7	255.1	218.4	203.7	199.1
85°	203.7	190.9	184.4	189.0	185.3	174.3	165.2	132.1	109.2	103.7	100.9
87.5°	64.2	56.0	51.4	67.9	57.8	51.4	49.5	39.5	30.3	30.3	29.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	3928.1	3928.1	3892.3	3884.0	3880.4	3884.9	3849.2	3842.7	3894.1	3876.7	3837.2
5°	3896.9	3895.0	3844.6	3835.4	3835.4	3829.9	3789.5	3780.3	3831.7	3817.0	3773.9
7.5°	3858.3	3852.8	3793.2	3786.8	3777.6	3773.9	3729.0	3722.5	3766.6	3757.4	3717.0
10°	3811.5	3806.0	3735.4	3730.8	3720.7	3713.4	3671.2	3666.6	3711.5	3696.8	3664.7
12.5°	3750.1	3740.0	3667.5	3662.9	3654.6	3651.9	3610.6	3608.8	3658.3	3643.6	3609.7
15°	3669.3	3661.1	3580.3	3582.1	3583.1	3583.1	3550.0	3548.2	3596.8	3590.4	3553.7
17.5°	3580.3	3569.3	3492.2	3497.7	3504.2	3511.5	3485.8	3490.4	3541.8	3533.5	3500.5
20°	3479.4	3468.4	3393.1	3408.7	3422.5	3437.2	3420.7	3433.5	3481.2	3477.5	3452.8
22.5°	3366.5	3355.5	3285.8	3309.6	3332.6	3360.1	3352.8	3367.4	3417.9	3417.0	3395.0
25°	3228.9	3231.6	3170.2	3199.5	3238.1	3276.6	3279.4	3303.2	3359.2	3353.7	3333.5
27.5°	3100.4	3104.1	3039.0	3088.5	3139.9	3189.4	3201.4	3234.4	3291.3	3286.7	3269.3
30°	2965.5	2970.1	2906.8	2974.7	3037.1	3097.7	3123.4	3168.3	3226.1	3226.1	3207.8
32.5°	2825.2	2833.4	2767.4	2858.2	2930.7	3001.3	3046.3	3093.1	3159.2	3157.3	3141.7
35°	2681.1	2690.3	2629.7	2745.3	2817.8	2904.1	2960.0	3022.4	3081.2	3082.1	3070.1
37.5°	2534.3	2545.3	2490.3	2616.9	2699.5	2801.3	2872.9	2935.3	3000.4	3004.1	2993.1
40°	2388.4	2400.3	2352.6	2474.7	2579.3	2693.0	2775.6	2849.0	2920.6	2922.4	2915.1
42.5°	2242.5	2255.4	2219.6	2338.9	2457.2	2579.3	2676.5	2760.0	2833.4	2838.0	2829.7
45°	2100.3	2111.3	2085.6	2215.9	2329.7	2462.7	2574.7	2669.2	2743.5	2749.9	2747.2
47.5°	1959.0	1969.1	1946.1	2065.4	2196.6	2337.9	2467.3	2571.9	2650.8	2658.2	2656.3
50°	1820.4	1828.7	1803.9	1928.7	2059.0	2209.5	2344.4	2465.5	2553.6	2560.9	2560.0
52.5°	1682.8	1691.1	1670.0	1801.2	1919.5	2078.3	2225.1	2356.3	2443.5	2454.5	2456.3
55°	1549.8	1553.4	1536.9	1662.6	1777.3	1943.4	2112.2	2239.8	2326.9	2336.1	2341.6
57.5°	1416.7	1417.6	1403.9	1524.1	1634.2	1803.9	1981.0	2115.0	2197.6	2206.7	2215.0
60°	1284.6	1283.7	1268.1	1384.6	1490.1	1658.0	1842.5	1975.5	2055.3	2063.6	2074.6
62.5°	1153.4	1150.6	1136.9	1244.2	1343.3	1509.4	1694.7	1823.2	1899.3	1904.9	1919.5
65°	1023.1	1020.3	1007.5	1106.6	1196.5	1355.2	1536.9	1658.9	1727.8	1735.1	1732.3
67.5°	894.6	889.1	879.0	968.0	1049.7	1196.5	1370.8	1487.4	1544.3	1550.7	1568.1
70°	766.2	759.7	736.8	831.3	902.9	1034.1	1196.5	1300.2	1347.9	1354.3	1351.6
72.5°	639.5	633.1	608.3	695.5	756.1	870.8	1015.7	1102.0	1143.3	1148.8	1148.8
75°	516.6	512.9	497.3	563.4	613.8	707.4	830.4	902.0	934.1	940.5	938.7
77.5°	398.2	395.5	379.9	436.8	476.2	545.9	645.0	701.0	724.9	732.2	747.8
80°	285.4	284.4	259.7	315.6	333.1	391.8	464.3	507.4	520.3	530.3	541.4
82.5°	182.6	183.5	158.7	206.5	213.8	251.4	296.4	323.0	332.2	340.4	348.7
85°	89.0	92.7	78.9	109.2	110.1	129.4	148.6	158.7	162.4	168.8	176.2
87.5°	22.9	26.6	14.7	31.2	27.5	35.8	41.3	44.0	43.1	47.7	50.5
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°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	3850.1	3879.4	3864.8	3912.5	3930.8	3901.5	3952.8	3953.8	3917.1	3960.2	3984.0
5°	3790.4	3820.7	3811.5	3861.1	3884.0	3858.3	3920.7	3932.7	3896.9	3945.5	3984.0
7.5°	3729.9	3765.7	3753.7	3804.2	3831.7	3811.5	3878.5	3897.8	3870.3	3923.5	3974.9
10°	3677.6	3707.9	3695.0	3748.2	3772.1	3755.6	3821.6	3857.4	3831.7	3896.9	3958.3
12.5°	3626.2	3651.0	3636.3	3680.3	3703.3	3682.2	3762.9	3795.9	3777.6	3845.5	3924.4
15°	3560.1	3587.7	3567.5	3606.9	3624.4	3606.0	3672.1	3729.0	3706.0	3780.3	3867.5
17.5°	3509.7	3525.3	3497.7	3528.9	3539.0	3514.2	3581.2	3637.2	3620.7	3701.4	3802.4
20°	3453.7	3466.5	3428.0	3445.4	3444.5	3413.3	3474.8	3529.8	3518.8	3607.8	3722.5
22.5°	3391.3	3397.7	3352.8	3356.4	3354.6	3303.2	3358.3	3414.2	3409.6	3499.6	3628.0
25°	3325.2	3326.1	3268.3	3266.5	3246.3	3185.8	3234.4	3297.7	3283.9	3381.2	3516.1
27.5°	3260.1	3250.9	3181.2	3164.7	3132.5	3060.1	3103.2	3160.1	3151.8	3247.2	3396.8
30°	3190.4	3178.4	3093.1	3062.8	3016.0	2932.5	2968.3	3021.5	3026.1	3109.6	3266.5
32.5°	3124.3	3094.0	2999.5	2955.5	2896.7	2799.5	2818.7	2872.9	2880.2	2964.6	3126.1
35°	3039.0	3018.8	2902.2	2827.0	2769.2	2662.8	2682.9	2720.6	2731.6	2814.2	2978.4
37.5°	2958.2	2926.1	2802.2	2710.5	2636.1	2524.2	2529.7	2568.2	2579.3	2662.8	2825.2
40°	2874.7	2828.8	2695.8	2588.4	2503.1	2385.7	2379.2	2419.6	2427.9	2509.5	2656.3
42.5°	2785.7	2730.7	2581.1	2463.6	2365.5	2246.2	2233.3	2268.2	2277.4	2357.2	2501.3
45°	2695.8	2629.7	2463.6	2335.2	2227.8	2105.8	2093.0	2119.6	2133.3	2208.6	2347.1
47.5°	2600.4	2523.3	2342.5	2199.4	2088.4	1966.3	1950.7	1977.3	1988.3	2062.7	2193.9
50°	2500.3	2406.8	2217.7	2059.9	1949.8	1829.6	1806.7	1837.9	1848.0	1917.7	2046.2
52.5°	2390.2	2286.6	2084.7	1919.5	1809.4	1694.7	1667.2	1697.5	1709.4	1777.3	1895.7
55°	2273.7	2161.8	1950.7	1790.2	1670.9	1558.9	1536.0	1547.9	1573.6	1637.8	1747.9
57.5°	2142.5	2031.5	1809.4	1646.1	1531.4	1424.1	1404.8	1415.8	1439.6	1502.0	1601.1
60°	2003.0	1885.6	1665.4	1502.0	1391.0	1289.2	1271.7	1281.8	1307.5	1364.4	1456.2
62.5°	1865.4	1733.3	1516.7	1354.3	1253.4	1158.9	1154.3	1150.6	1174.5	1229.5	1310.3
65°	1698.4	1571.8	1361.7	1207.5	1115.8	1030.4	1012.1	1020.3	1043.3	1093.7	1178.1
67.5°	1519.5	1404.8	1202.9	1060.7	979.0	902.9	887.3	890.9	914.8	958.8	1032.3
70°	1329.5	1228.6	1040.5	913.0	844.2	772.6	762.5	763.4	786.3	824.9	889.1
72.5°	1130.4	1039.6	876.3	767.1	710.2	658.8	649.6	638.6	659.7	692.8	747.8
75°	927.7	847.8	712.9	623.9	579.0	535.9	527.6	516.6	537.7	566.1	609.3
77.5°	723.0	658.8	554.2	485.4	450.5	418.4	411.1	399.1	420.2	441.3	475.3
80°	523.0	476.2	413.8	341.3	329.4	308.3	301.0	288.1	308.3	322.1	347.8
82.5°	337.7	306.5	270.7	220.2	218.4	202.8	199.1	184.4	202.8	211.0	230.3
85°	170.7	156.0	146.8	111.9	115.6	105.5	104.6	89.0	103.7	107.4	118.4
87.5°	48.6	51.4	45.9	27.5	34.9	33.0	33.0	23.9	33.0	33.0	37.6
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: P838118

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4LO-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6	3933.6
2.5°	3937.2	3952.8	3956.5	3955.6	3965.7	4020.7	4002.4	4020.7
5°	3946.4	3981.3	3990.5	4003.3	4019.8	4082.2	4062.0	4084.1
7.5°	3951.9	4004.2	4024.4	4049.2	4075.8	4145.5	4129.0	4151.0
10°	3951.9	4019.8	4049.2	4090.5	4126.3	4207.0	4191.4	4217.1
12.5°	3935.4	4022.6	4063.9	4121.7	4167.5	4254.7	4248.3	4266.6
15°	3901.5	4008.8	4065.7	4140.0	4196.9	4294.2	4291.4	4313.4
17.5°	3855.6	3985.0	4053.8	4147.4	4218.9	4328.1	4334.5	4346.5
20°	3797.8	3940.0	4029.9	4144.6	4234.5	4354.7	4363.0	4379.5
22.5°	3721.6	3885.9	3994.1	4132.7	4236.4	4365.7	4380.4	4396.0
25°	3631.7	3820.7	3947.3	4109.7	4227.2	4364.8	4385.0	4398.8
27.5°	3528.9	3736.3	3887.7	4073.0	4201.5	4350.1	4374.9	4391.4
30°	3409.6	3646.4	3819.8	4025.3	4166.6	4322.6	4349.2	4365.7
32.5°	3286.7	3547.3	3739.0	3963.9	4116.2	4278.6	4301.5	4314.4
35°	3152.7	3427.1	3641.8	3884.9	4051.0	4207.9	4225.4	4239.1
37.5°	3006.8	3296.8	3530.8	3795.9	3959.3	4109.7	4125.3	4140.9
40°	2856.4	3160.1	3406.0	3686.7	3850.1	3989.5	4006.1	4017.1
42.5°	2705.0	3008.7	3272.9	3558.3	3720.7	3854.7	3864.8	3875.8
45°	2551.7	2851.8	3123.4	3416.1	3576.6	3702.3	3706.0	3715.2
47.5°	2395.7	2689.4	2959.1	3253.7	3412.4	3527.1	3530.8	3538.1
50°	2238.8	2527.0	2783.9	3078.4	3233.5	3354.6	3338.1	3345.4
52.5°	2084.7	2356.3	2618.7	2889.4	3042.6	3150.0	3154.6	3139.9
55°	1933.3	2189.3	2430.6	2691.2	2837.1	2920.6	2917.8	2923.3
57.5°	1780.1	2020.5	2241.6	2480.2	2622.4	2701.3	2717.8	2698.5
60°	1624.1	1849.8	2048.0	2263.6	2401.2	2467.3	2486.6	2468.2
62.5°	1469.0	1676.4	1856.2	2044.3	2171.9	2253.5	2251.7	2231.5
65°	1313.9	1502.0	1662.6	1822.3	1933.3	2015.0	2011.3	1992.9
67.5°	1170.8	1325.9	1469.9	1599.3	1695.6	1751.6	1770.9	1748.9
70°	1013.0	1146.9	1273.6	1377.3	1457.1	1507.5	1525.9	1506.6
72.5°	855.2	968.9	1057.9	1158.0	1219.4	1261.6	1280.9	1262.6
75°	699.2	792.8	865.3	943.2	986.4	1022.2	1044.2	1025.8
77.5°	547.8	620.3	678.1	735.0	784.5	792.8	812.0	800.1
80°	403.7	456.0	498.2	535.9	571.6	575.3	590.9	583.6
82.5°	268.8	303.7	314.7	354.2	377.1	373.4	389.0	383.5
85°	142.2	163.3	182.6	194.5	207.4	195.4	209.2	203.7
87.5°	47.7	50.5	44.0	62.4	68.8	58.7	67.0	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)