

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: P838192

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-30-120-EDD-90**

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: P838192
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-LD4-4HI-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

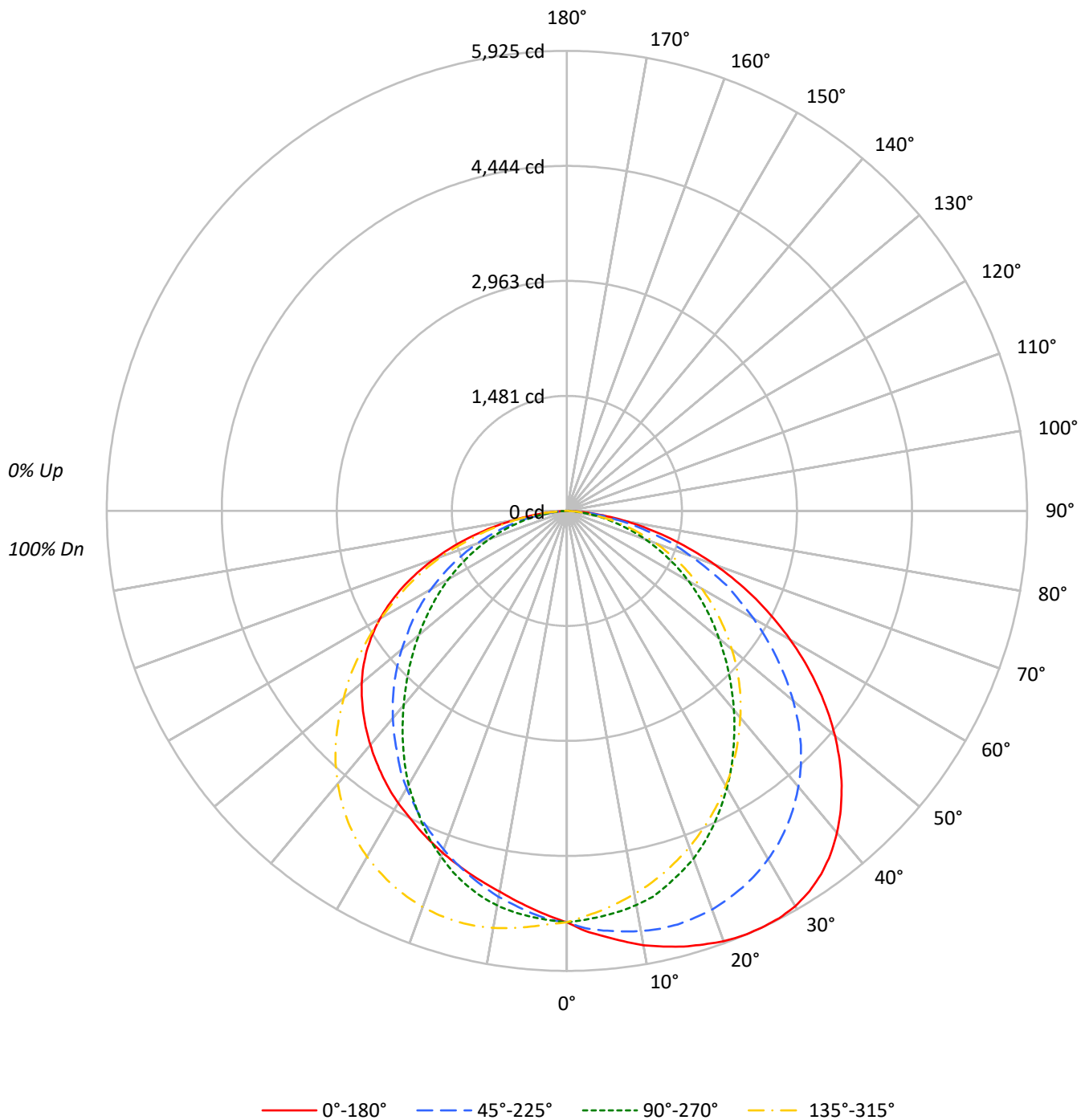
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15544.5 lumens
Efficiency: N/A
Efficacy: 88.3 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): 176
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7129	7129	7129	7129
5°	7430	7078	6944	7089
10°	7761	7041	6803	7051
15°	8093	6952	6736	6953
20°	8446	6825	6707	6786
25°	8796	6635	6706	6567
30°	9136	6404	6751	6333
35°	9379	6141	6819	6043
40°	9504	5876	6914	5744
45°	9522	5609	7048	5468
50°	9432	5353	7220	5210
55°	9237	5114	7381	4972
60°	8946	4866	7480	4739
65°	8546	4580	7441	4474
70°	7984	4244	7176	4167
75°	7183	3784	6586	3765
80°	6090	3170	5535	3218
85°	4236	2098	3511	2157

Classified

Scaled Data Report

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CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4HI-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	3.2
10°-20°	1456.7	9.4
20°-30°	2232.4	14.4
30°-40°	2714.5	17.5
40°-50°	2821.9	18.2
50°-60°	2549.0	16.4
60°-70°	1937.9	12.5
70°-80°	1080.4	7.0
80°-90°	248.7	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°	4192.1	27.0
0°-40°	6906.6	44.4
0°-60°	12277.5	79.0
0°-90°	15544.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15544.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5298	5298	5298	5298	5298	
5°	5501	5240	5141	5249	5501	530
15°	5810	4991	4836	4992	5810	1647
25°	5925	4469	4517	4423	5925	2737
35°	5710	3739	4151	3679	5710	3566
45°	5004	2948	3704	2874	5004	3853
55°	3938	2180	3147	2120	3938	3515
65°	2684	1439	2337	1405	2684	2653
75°	1382	728	1267	724	1382	1468
85°	274	136	227	140	274	345
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°	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3
2.5°	5415.7	5336.6	5337.9	5407.1	5353.9	5379.9	5305.7	5334.2	5325.5	5331.7	5271.1
5°	5501.0	5415.7	5414.5	5473.8	5414.5	5425.6	5331.7	5350.2	5323.0	5305.7	5240.2
7.5°	5591.2	5505.9	5497.3	5549.2	5471.3	5462.7	5358.9	5358.9	5309.4	5266.2	5204.4
10°	5680.2	5592.5	5581.3	5620.9	5524.5	5496.1	5370.0	5350.2	5284.7	5220.4	5153.7
12.5°	5746.9	5658.0	5649.3	5674.0	5565.3	5513.4	5370.0	5331.7	5235.3	5145.1	5093.2
15°	5810.0	5718.5	5695.0	5707.4	5582.6	5513.4	5352.7	5293.4	5169.8	5051.1	4990.6
17.5°	5854.5	5766.7	5743.2	5742.0	5591.2	5492.3	5315.6	5234.0	5085.7	4942.4	4881.8
20°	5899.0	5811.2	5781.5	5759.3	5588.7	5463.9	5261.2	5151.2	4978.2	4817.5	4766.9
22.5°	5921.2	5831.0	5798.9	5765.5	5572.7	5412.0	5194.5	5054.8	4857.1	4665.5	4623.5
25°	5924.9	5832.2	5797.6	5749.4	5540.5	5350.2	5108.0	4938.7	4717.4	4504.9	4469.0
27.5°	5915.0	5813.7	5779.1	5721.0	5492.3	5274.8	5005.4	4806.4	4569.1	4334.3	4296.0
30°	5880.4	5777.8	5744.5	5669.1	5424.4	5182.1	4892.9	4659.4	4404.8	4155.1	4121.7
32.5°	5811.2	5711.1	5683.9	5608.5	5350.2	5074.6	4761.9	4501.2	4223.1	3984.5	3935.1
35°	5709.9	5609.8	5592.5	5513.4	5246.4	4946.1	4618.6	4328.1	4030.3	3786.8	3738.6
37.5°	5577.6	5493.6	5467.6	5389.8	5124.0	4800.2	4454.2	4140.3	3833.8	3571.8	3542.1
40°	5410.8	5331.7	5311.9	5242.7	4981.9	4638.3	4276.2	3946.2	3631.1	3387.6	3345.6
42.5°	5220.4	5146.3	5135.2	5063.5	4806.4	4459.1	4083.4	3744.8	3419.7	3184.9	3142.9
45°	5004.2	4932.5	4930.0	4862.0	4614.9	4260.2	3880.7	3540.9	3213.3	2969.9	2947.6
47.5°	4765.6	4701.4	4701.4	4638.3	4401.0	4041.4	3671.9	3328.3	3005.7	2790.7	2751.1
50°	4506.1	4445.5	4427.0	4396.1	4165.0	3802.9	3451.9	3120.7	2800.6	2595.4	2557.1
52.5°	4229.3	4177.3	4189.7	4132.9	3909.2	3554.5	3229.4	2887.1	2594.2	2407.5	2369.2
55°	3937.6	3863.4	3874.6	3853.5	3642.2	3298.6	2979.8	2694.3	2391.5	2216.0	2180.1
57.5°	3634.8	3538.4	3577.9	3565.6	3357.9	3036.6	2751.1	2475.5	2190.0	2028.1	1993.5
60°	3324.6	3231.9	3272.7	3261.5	3066.3	2774.6	2515.1	2259.2	1989.8	1842.7	1808.1
62.5°	3005.7	2920.4	2957.5	2948.9	2769.7	2506.4	2280.2	2045.4	1788.4	1656.1	1624.0
65°	2684.4	2602.8	2636.2	2630.0	2464.4	2264.2	2039.2	1824.2	1585.7	1470.7	1438.6
67.5°	2355.6	2280.2	2311.1	2311.1	2159.1	1967.6	1797.0	1600.5	1386.7	1287.8	1258.1
70°	2029.4	1958.9	1986.1	1983.6	1855.1	1699.4	1552.3	1376.8	1185.2	1103.7	1078.9
72.5°	1700.6	1638.8	1663.5	1661.1	1553.5	1453.4	1307.6	1155.6	988.7	923.2	901.0
75°	1381.7	1323.7	1347.1	1344.7	1256.9	1163.0	1065.3	939.3	795.9	750.2	727.9
77.5°	1077.7	1018.4	1038.2	1038.2	973.9	905.9	828.1	730.4	629.1	579.6	563.6
80°	786.0	757.6	747.7	749.0	705.7	661.2	621.7	527.7	453.6	420.2	409.1
82.5°	516.6	493.1	483.2	485.7	461.0	433.8	409.1	343.6	294.1	274.4	268.2
85°	274.4	257.1	248.4	254.6	249.7	234.8	222.5	178.0	147.1	139.7	135.9
87.5°	86.5	75.4	69.2	91.5	77.9	69.2	66.7	53.1	40.8	40.8	39.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3
2.5°	5290.9	5290.9	5242.7	5231.6	5226.6	5232.8	5184.6	5176.0	5245.2	5221.7	5168.5
5°	5248.9	5246.4	5178.4	5166.1	5166.1	5158.7	5104.3	5091.9	5161.1	5141.4	5083.3
7.5°	5197.0	5189.6	5109.2	5100.6	5088.2	5083.3	5022.7	5014.1	5073.4	5061.0	5006.6
10°	5133.9	5126.5	5031.4	5025.2	5011.6	5001.7	4944.8	4938.7	4999.2	4979.4	4936.2
12.5°	5051.1	5037.5	4939.9	4933.7	4922.6	4918.9	4863.3	4860.8	4927.5	4907.8	4862.0
15°	4942.4	4931.2	4822.5	4825.0	4826.2	4826.2	4781.7	4779.2	4844.7	4836.1	4786.6
17.5°	4822.5	4807.7	4703.8	4711.3	4719.9	4729.8	4695.2	4701.4	4770.6	4759.5	4715.0
20°	4686.5	4671.7	4570.4	4591.4	4609.9	4629.7	4607.4	4624.7	4689.0	4684.1	4650.7
22.5°	4534.5	4519.7	4425.8	4457.9	4488.8	4525.9	4516.0	4535.8	4603.7	4602.5	4572.8
25°	4349.1	4352.8	4270.0	4309.6	4361.5	4413.4	4417.1	4449.2	4524.6	4517.2	4490.0
27.5°	4176.1	4181.1	4093.3	4160.0	4229.3	4296.0	4312.1	4356.6	4433.2	4427.0	4403.5
30°	3994.4	4000.6	3915.3	4006.8	4090.8	4172.4	4207.0	4267.6	4345.4	4345.4	4320.7
32.5°	3805.3	3816.5	3727.5	3849.8	3947.5	4042.6	4103.2	4166.2	4255.2	4252.7	4231.7
35°	3611.3	3623.7	3542.1	3697.8	3795.5	3911.6	3987.0	4071.1	4150.2	4151.4	4135.3
37.5°	3413.6	3428.4	3354.2	3524.8	3636.0	3773.2	3869.6	3953.7	4041.4	4046.3	4031.5
40°	3217.1	3233.1	3168.9	3333.2	3474.1	3627.4	3738.6	3837.5	3933.9	3936.3	3926.5
42.5°	3020.5	3037.8	2989.6	3150.3	3309.7	3474.1	3605.1	3717.6	3816.5	3822.6	3811.5
45°	2829.0	2843.8	2809.2	2984.7	3138.0	3317.2	3467.9	3595.2	3695.3	3704.0	3700.3
47.5°	2638.7	2652.2	2621.3	2782.0	2958.7	3149.1	3323.3	3464.2	3570.5	3580.4	3577.9
50°	2452.0	2463.2	2429.8	2597.9	2773.4	2976.1	3157.7	3320.9	3439.5	3449.4	3448.2
52.5°	2266.6	2277.8	2249.3	2426.1	2585.5	2799.3	2997.1	3173.8	3291.2	3306.0	3308.5
55°	2087.4	2092.4	2070.1	2239.5	2393.9	2617.6	2845.0	3016.8	3134.2	3146.6	3154.0
57.5°	1908.2	1909.5	1890.9	2052.8	2201.1	2429.8	2668.3	2848.8	2960.0	2972.3	2983.5
60°	1730.3	1729.0	1708.0	1865.0	2007.1	2233.3	2481.7	2660.9	2768.4	2779.5	2794.4
62.5°	1553.5	1549.8	1531.3	1675.9	1809.4	2033.1	2282.7	2455.7	2558.3	2565.7	2585.5
65°	1378.0	1374.3	1357.0	1490.5	1611.6	1825.4	2070.1	2234.5	2327.2	2337.1	2333.4
67.5°	1205.0	1197.6	1184.0	1303.9	1413.9	1611.6	1846.4	2003.4	2080.0	2088.7	2112.2
70°	1032.0	1023.3	992.4	1119.7	1216.1	1392.9	1611.6	1751.3	1815.5	1824.2	1820.5
72.5°	861.4	852.8	819.4	936.8	1018.4	1172.9	1368.1	1484.3	1539.9	1547.3	1547.3
75°	695.8	690.9	669.9	758.8	826.8	952.9	1118.5	1214.9	1258.1	1266.8	1264.3
77.5°	536.4	532.7	511.7	588.3	641.4	735.4	868.8	944.2	976.4	986.2	1007.3
80°	384.4	383.1	349.8	425.2	448.6	527.7	625.4	683.5	700.8	714.4	729.2
82.5°	245.9	247.2	213.8	278.1	288.0	338.6	399.2	435.0	447.4	458.5	469.6
85°	119.9	124.8	106.3	147.1	148.3	174.3	200.2	213.8	218.8	227.4	237.3
87.5°	30.9	35.8	19.8	42.0	37.1	48.2	55.6	59.3	58.1	64.3	68.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3
2.5°	5185.8	5225.4	5205.6	5269.9	5294.6	5255.1	5324.3	5325.5	5276.1	5334.2	5366.3
5°	5105.5	5146.3	5133.9	5200.7	5231.6	5197.0	5281.0	5297.1	5248.9	5314.4	5366.3
7.5°	5023.9	5072.1	5056.1	5124.0	5161.1	5133.9	5224.2	5250.1	5213.0	5284.7	5353.9
10°	4953.5	4994.3	4977.0	5048.7	5080.8	5058.5	5147.5	5195.7	5161.1	5248.9	5331.7
12.5°	4884.3	4917.7	4897.9	4957.2	4988.1	4959.7	5068.4	5112.9	5088.2	5179.7	5286.0
15°	4795.3	4832.4	4805.2	4858.3	4881.8	4857.1	4946.1	5022.7	4991.8	5091.9	5209.3
17.5°	4727.3	4748.3	4711.3	4753.3	4766.9	4733.5	4823.7	4899.1	4876.9	4985.6	5121.6
20°	4651.9	4669.2	4617.3	4640.8	4639.6	4597.6	4680.4	4754.5	4739.7	4859.6	5014.1
22.5°	4567.9	4576.5	4516.0	4520.9	4518.5	4449.2	4523.4	4598.8	4592.6	4713.7	4886.8
25°	4478.9	4480.1	4402.3	4399.8	4372.6	4291.1	4356.6	4441.8	4423.3	4554.3	4736.0
27.5°	4391.2	4378.8	4284.9	4262.6	4219.4	4121.7	4179.8	4256.4	4245.3	4373.9	4575.3
30°	4297.2	4281.2	4166.2	4125.4	4062.4	3949.9	3998.1	4069.8	4076.0	4188.5	4399.8
32.5°	4208.2	4167.5	4040.2	3980.8	3901.7	3770.7	3796.7	3869.6	3879.5	3993.2	4210.7
35°	4093.3	4066.1	3909.2	3807.8	3730.0	3586.6	3613.8	3664.4	3679.3	3790.5	4011.7
37.5°	3984.5	3941.3	3774.4	3650.9	3550.7	3400.0	3407.4	3459.3	3474.1	3586.6	3805.3
40°	3872.1	3810.3	3631.1	3486.5	3371.5	3213.3	3204.7	3259.1	3270.2	3380.2	3577.9
42.5°	3752.2	3678.0	3476.6	3318.4	3186.2	3025.5	3008.2	3055.1	3067.5	3175.0	3369.1
45°	3631.1	3542.1	3318.4	3145.4	3000.8	2836.4	2819.1	2854.9	2873.5	2974.8	3161.4
47.5°	3502.5	3398.7	3155.3	2962.5	2812.9	2648.5	2627.5	2663.4	2678.2	2778.3	2955.0
50°	3367.8	3241.8	2987.2	2774.6	2626.3	2464.4	2433.5	2475.5	2489.1	2583.0	2756.1
52.5°	3219.5	3079.9	2808.0	2585.5	2437.2	2282.7	2245.6	2286.4	2302.5	2393.9	2553.4
55°	3062.6	2911.8	2627.5	2411.2	2250.6	2099.8	2068.9	2085.0	2119.6	2206.1	2354.4
57.5°	2885.8	2736.3	2437.2	2217.2	2062.7	1918.1	1892.2	1907.0	1939.1	2023.2	2156.6
60°	2698.0	2539.8	2243.2	2023.2	1873.6	1736.4	1713.0	1726.6	1761.2	1837.8	1961.4
62.5°	2512.6	2334.6	2042.9	1824.2	1688.2	1560.9	1554.8	1549.8	1582.0	1656.1	1764.9
65°	2287.7	2117.1	1834.1	1626.4	1502.9	1387.9	1363.2	1374.3	1405.2	1473.2	1586.9
67.5°	2046.7	1892.2	1620.3	1428.7	1318.7	1216.1	1195.1	1200.1	1232.2	1291.5	1390.4
70°	1790.8	1654.9	1401.5	1229.7	1137.0	1040.6	1027.0	1028.3	1059.2	1111.1	1197.6
72.5°	1522.6	1400.3	1180.3	1033.2	956.6	887.4	875.0	860.2	888.6	933.1	1007.3
75°	1249.5	1142.0	960.3	840.4	779.9	721.8	710.6	695.8	724.2	762.6	820.6
77.5°	973.9	887.4	746.5	653.8	606.8	563.6	553.7	537.6	566.0	594.5	640.2
80°	704.5	641.4	557.4	459.8	443.7	415.3	405.4	388.1	415.3	433.8	468.4
82.5°	454.8	412.8	364.6	296.6	294.1	273.1	268.2	248.4	273.1	284.3	310.2
85°	229.9	210.1	197.7	150.8	155.7	142.1	140.9	119.9	139.7	144.6	159.4
87.5°	65.5	69.2	61.8	37.1	47.0	44.5	44.5	32.1	44.5	44.5	50.7
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: P838192

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4HI-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3	5298.3
2.5°	5303.3	5324.3	5329.2	5328.0	5341.6	5415.7	5391.0	5415.7
5°	5315.6	5362.6	5374.9	5392.2	5414.5	5498.5	5471.3	5501.0
7.5°	5323.0	5393.5	5420.7	5454.0	5489.9	5583.8	5561.6	5591.2
10°	5323.0	5414.5	5454.0	5509.7	5557.9	5666.6	5645.6	5680.2
12.5°	5300.8	5418.2	5473.8	5551.7	5613.5	5730.9	5722.2	5746.9
15°	5255.1	5399.7	5476.3	5576.4	5653.0	5784.0	5780.3	5810.0
17.5°	5193.3	5367.5	5460.2	5586.3	5682.7	5829.7	5838.4	5854.5
20°	5115.4	5307.0	5428.1	5582.6	5703.7	5865.6	5876.7	5899.0
22.5°	5012.8	5234.0	5379.9	5566.5	5706.2	5880.4	5900.2	5921.2
25°	4891.7	5146.3	5316.8	5535.6	5693.8	5879.2	5906.4	5924.9
27.5°	4753.3	5032.6	5236.5	5486.2	5659.2	5859.4	5892.8	5915.0
30°	4592.6	4911.5	5145.1	5421.9	5612.2	5822.3	5858.2	5880.4
32.5°	4427.0	4778.0	5036.3	5339.1	5544.3	5763.0	5793.9	5811.2
35°	4246.6	4616.1	4905.3	5232.8	5456.5	5667.8	5691.3	5709.9
37.5°	4050.1	4440.6	4755.8	5112.9	5332.9	5535.6	5556.6	5577.6
40°	3847.4	4256.4	4587.7	4965.9	5185.8	5373.7	5395.9	5410.8
42.5°	3643.4	4052.5	4408.5	4792.8	5011.6	5192.0	5205.6	5220.4
45°	3437.0	3841.2	4207.0	4601.3	4817.5	4986.9	4991.8	5004.2
47.5°	3226.9	3622.4	3985.8	4382.5	4596.3	4750.8	4755.8	4765.6
50°	3015.6	3403.7	3749.7	4146.5	4355.3	4518.5	4496.2	4506.1
52.5°	2808.0	3173.8	3527.3	3891.9	4098.3	4242.9	4249.0	4229.3
55°	2604.0	2948.9	3273.9	3624.9	3821.4	3933.9	3930.2	3937.6
57.5°	2397.6	2721.5	3019.3	3340.6	3532.2	3638.5	3660.7	3634.8
60°	2187.5	2491.6	2758.5	3049.0	3234.4	3323.3	3349.3	3324.6
62.5°	1978.7	2258.0	2500.2	2753.6	2925.4	3035.4	3032.9	3005.7
65°	1769.8	2023.2	2239.5	2454.5	2604.0	2714.0	2709.1	2684.4
67.5°	1577.0	1785.9	1979.9	2154.2	2283.9	2359.3	2385.3	2355.6
70°	1364.4	1544.9	1715.4	1855.1	1962.6	2030.6	2055.3	2029.4
72.5°	1151.9	1305.1	1425.0	1559.7	1642.5	1699.4	1725.3	1700.6
75°	941.8	1067.8	1165.5	1270.5	1328.6	1376.8	1406.5	1381.7
77.5°	737.8	835.5	913.3	990.0	1056.7	1067.8	1093.8	1077.7
80°	543.8	614.2	671.1	721.8	770.0	774.9	795.9	786.0
82.5°	362.1	409.1	423.9	477.1	508.0	503.0	524.0	516.6
85°	191.6	220.0	245.9	262.0	279.3	263.2	281.8	274.4
87.5°	64.3	68.0	59.3	84.0	92.7	79.1	90.2	86.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)