

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: P838230

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5STD-40-120-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: P838230
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-LD4-5STD-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

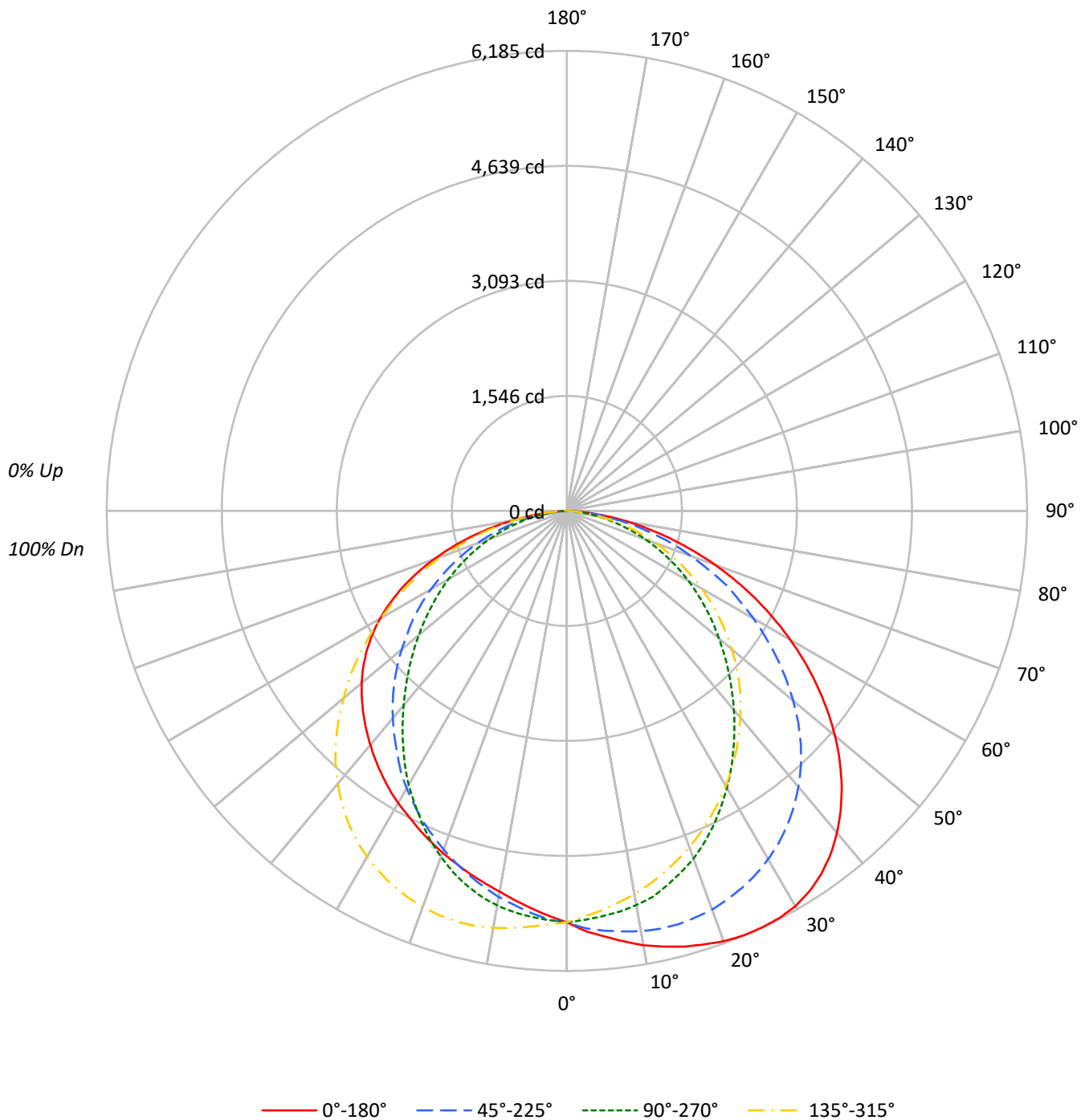
Lumens per Lamp: N/A
Luminaire Lumens: 16226.9 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	7442	7442	7442	7442
5°	7756	7388	7249	7401
10°	8101	7350	7102	7361
15°	8448	7257	7032	7259
20°	8817	7125	7001	7084
25°	9182	6926	7001	6855
30°	9537	6685	7048	6611
35°	9790	6410	7118	6309
40°	9921	6134	7217	5996
45°	9940	5855	7357	5708
50°	9846	5587	7537	5439
55°	9642	5339	7705	5190
60°	9339	5079	7808	4947
65°	8921	4781	7767	4670
70°	8334	4431	7491	4350
75°	7498	3950	6875	3930
80°	6358	3309	5778	3359
85°	4421	2191	3665	2251

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°	525.1	3.2
10°-20°	1520.6	9.4
20°-30°	2330.4	14.4
30°-40°	2833.7	17.5
40°-50°	2945.8	18.2
50°-60°	2660.9	16.4
60°-70°	2023.0	12.5
70°-80°	1127.8	7.0
80°-90°	259.7	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°	4376.2	27.0
0°-40°	7209.8	44.4
0°-60°	12816.5	79.0
0°-90°	16226.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16226.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5531	5531	5531	5531	5531	
5°	5742	5470	5367	5479	5742	554
15°	6065	5210	5048	5211	6065	1720
25°	6185	4665	4716	4618	6185	2857
35°	5960	3903	4334	3841	5960	3723
45°	5224	3077	3867	3000	5224	4022
55°	4110	2276	3285	2213	4110	3669
65°	2802	1502	2440	1467	2802	2769
75°	1442	760	1322	756	1442	1532
85°	286	142	237	146	286	361
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°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5653.5	5570.9	5572.2	5644.4	5589.0	5616.1	5538.7	5568.3	5559.3	5565.7	5502.5
5°	5742.5	5653.5	5652.2	5714.1	5652.2	5663.8	5565.7	5585.1	5556.7	5538.7	5470.3
7.5°	5836.7	5747.7	5738.6	5792.8	5711.5	5702.5	5594.1	5594.1	5542.5	5497.4	5432.9
10°	5929.6	5838.0	5826.4	5867.6	5767.0	5737.3	5605.7	5585.1	5516.7	5449.6	5380.0
12.5°	5999.2	5906.3	5897.3	5923.1	5809.6	5755.4	5605.7	5565.7	5465.1	5370.9	5316.7
15°	6065.0	5969.6	5945.1	5958.0	5827.6	5755.4	5587.7	5525.7	5396.7	5272.9	5209.7
17.5°	6111.5	6019.9	5995.4	5994.1	5836.7	5733.5	5549.0	5463.8	5309.0	5159.3	5096.1
20°	6157.9	6066.3	6035.4	6012.1	5834.1	5703.8	5492.2	5377.4	5196.8	5029.0	4976.1
22.5°	6181.2	6087.0	6053.4	6018.6	5817.3	5649.6	5422.5	5276.7	5070.3	4870.3	4826.5
25°	6185.0	6088.3	6052.1	6001.8	5783.8	5585.1	5332.2	5155.5	4924.5	4702.6	4665.2
27.5°	6174.7	6068.9	6032.8	5972.1	5733.5	5506.4	5225.1	5017.4	4769.7	4524.6	4484.6
30°	6138.6	6031.5	5996.7	5918.0	5662.5	5409.6	5107.7	4863.9	4598.1	4337.5	4302.7
32.5°	6066.3	5961.8	5933.4	5854.7	5585.1	5297.4	4971.0	4698.8	4408.5	4159.5	4107.9
35°	5960.5	5856.0	5838.0	5755.4	5476.7	5163.2	4821.3	4518.1	4207.2	3953.0	3902.7
37.5°	5822.5	5734.8	5707.7	5626.4	5349.0	5011.0	4649.7	4322.0	4002.1	3728.6	3697.6
40°	5648.3	5565.7	5545.1	5472.9	5200.6	4842.0	4463.9	4119.5	3790.5	3536.3	3492.5
42.5°	5449.6	5372.2	5360.6	5285.8	5017.4	4654.9	4262.7	3909.2	3569.9	3324.7	3280.9
45°	5223.9	5149.0	5146.4	5075.5	4817.5	4447.2	4051.1	3696.3	3354.4	3100.3	3077.0
47.5°	4974.9	4907.8	4907.8	4842.0	4594.3	4218.8	3833.1	3474.4	3137.7	2913.2	2871.9
50°	4703.9	4640.7	4621.3	4589.1	4347.8	3969.8	3603.4	3257.7	2923.5	2709.3	2669.3
52.5°	4414.9	4360.7	4373.6	4314.3	4080.8	3710.5	3371.2	3013.8	2708.0	2513.2	2473.2
55°	4110.4	4033.0	4044.6	4022.7	3802.1	3443.4	3110.6	2812.5	2496.5	2313.3	2275.8
57.5°	3794.4	3693.7	3735.0	3722.1	3505.4	3169.9	2871.9	2584.2	2286.2	2117.2	2081.0
60°	3470.5	3373.8	3416.3	3404.7	3200.9	2896.4	2625.5	2358.4	2077.2	1923.6	1887.5
62.5°	3137.7	3048.6	3087.3	3078.3	2891.2	2616.4	2380.3	2135.2	1866.9	1728.8	1695.3
65°	2802.2	2717.1	2751.9	2745.5	2572.6	2363.6	2128.8	1904.3	1655.3	1535.3	1501.7
67.5°	2459.0	2380.3	2412.6	2412.6	2253.9	2053.9	1875.9	1670.8	1447.6	1344.3	1313.4
70°	2118.4	2044.9	2073.3	2070.7	1936.5	1774.0	1620.4	1437.2	1237.3	1152.1	1126.3
72.5°	1775.3	1710.8	1736.6	1734.0	1621.7	1517.2	1365.0	1206.3	1032.1	963.7	940.5
75°	1442.4	1381.8	1406.3	1403.7	1312.1	1214.0	1112.1	980.5	830.9	783.1	759.9
77.5°	1125.0	1063.1	1083.7	1083.7	1016.6	945.7	864.4	762.5	656.7	605.1	588.3
80°	820.5	790.9	780.5	781.8	736.7	690.2	648.9	550.9	473.5	438.7	427.0
82.5°	539.3	514.8	504.5	507.0	481.2	452.8	427.0	358.7	307.1	286.4	280.0
85°	286.4	268.4	259.3	265.8	260.6	245.1	232.2	185.8	153.5	145.8	141.9
87.5°	90.3	78.7	72.2	95.5	81.3	72.2	69.7	55.5	42.6	42.6	41.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5523.2	5523.2	5472.9	5461.2	5456.1	5462.5	5412.2	5403.2	5475.4	5450.9	5395.4
5°	5479.3	5476.7	5405.8	5392.9	5392.9	5385.1	5328.4	5315.5	5387.7	5367.1	5306.4
7.5°	5425.1	5417.4	5333.5	5324.5	5311.6	5306.4	5243.2	5234.2	5296.1	5283.2	5226.4
10°	5359.3	5351.6	5252.2	5245.8	5231.6	5221.3	5161.9	5155.5	5218.7	5198.0	5152.9
12.5°	5272.9	5258.7	5156.8	5150.3	5138.7	5134.8	5076.8	5074.2	5143.9	5123.2	5075.5
15°	5159.3	5147.7	5034.2	5036.8	5038.1	5038.1	4991.6	4989.0	5057.4	5048.4	4996.8
17.5°	5034.2	5018.7	4910.3	4918.1	4927.1	4937.4	4901.3	4907.8	4980.0	4968.4	4922.0
20°	4892.3	4876.8	4771.0	4792.9	4812.3	4832.9	4809.7	4827.8	4894.9	4889.7	4854.9
22.5°	4733.6	4718.1	4620.1	4653.6	4685.9	4724.6	4714.2	4734.9	4805.8	4804.6	4773.6
25°	4540.1	4543.9	4457.5	4498.8	4553.0	4607.2	4611.0	4644.6	4723.3	4715.5	4687.1
27.5°	4359.4	4364.6	4273.0	4342.7	4414.9	4484.6	4501.4	4547.8	4627.8	4621.3	4596.8
30°	4169.8	4176.2	4087.2	4182.7	4270.4	4355.6	4391.7	4454.9	4536.2	4536.2	4510.4
32.5°	3972.4	3984.0	3891.1	4018.8	4120.8	4220.1	4283.3	4349.1	4442.0	4439.4	4417.5
35°	3769.8	3782.7	3697.6	3860.2	3962.1	4083.4	4162.1	4249.8	4332.4	4333.6	4316.9
37.5°	3563.4	3578.9	3501.5	3679.5	3795.6	3938.9	4039.5	4127.2	4218.8	4224.0	4208.5
40°	3358.3	3375.1	3308.0	3479.6	3626.6	3786.6	3902.7	4005.9	4106.6	4109.2	4098.8
42.5°	3153.1	3171.2	3120.9	3288.6	3455.0	3626.6	3763.4	3880.8	3984.0	3990.5	3978.8
45°	2953.2	2968.7	2932.5	3115.7	3275.7	3462.8	3620.2	3753.1	3857.6	3866.6	3862.7
47.5°	2754.5	2768.7	2736.4	2904.1	3088.6	3287.3	3469.2	3616.3	3727.3	3737.6	3735.0
50°	2559.7	2571.3	2536.5	2711.9	2895.1	3106.7	3296.4	3466.7	3590.5	3600.8	3599.5
52.5°	2366.2	2377.8	2348.1	2532.6	2699.0	2922.2	3128.6	3313.1	3435.7	3451.2	3453.8
55°	2179.1	2184.2	2161.0	2337.8	2499.0	2732.6	2969.9	3149.3	3271.8	3284.7	3292.5
57.5°	1992.0	1993.3	1973.9	2143.0	2297.8	2536.5	2785.5	2973.8	3089.9	3102.8	3114.4
60°	1806.2	1804.9	1783.0	1946.8	2095.2	2331.3	2590.6	2777.7	2890.0	2901.6	2917.0
62.5°	1621.7	1617.9	1598.5	1749.5	1888.8	2122.3	2382.9	2563.5	2670.6	2678.4	2699.0
65°	1438.5	1434.7	1416.6	1555.9	1682.4	1905.6	2161.0	2332.6	2429.4	2439.7	2435.8
67.5°	1257.9	1250.2	1236.0	1361.1	1475.9	1682.4	1927.5	2091.3	2171.3	2180.4	2204.9
70°	1077.3	1068.3	1036.0	1168.9	1269.5	1454.0	1682.4	1828.2	1895.2	1904.3	1900.4
72.5°	899.2	890.2	855.4	977.9	1063.1	1224.4	1428.2	1549.5	1607.5	1615.3	1615.3
75°	726.4	721.2	699.3	792.2	863.1	994.7	1167.6	1268.2	1313.4	1322.4	1319.8
77.5°	559.9	556.1	534.1	614.1	669.6	767.6	907.0	985.7	1019.2	1029.5	1051.5
80°	401.2	399.9	365.1	443.8	468.3	550.9	652.8	713.5	731.5	745.7	761.2
82.5°	256.7	258.0	223.2	290.3	300.6	353.5	416.7	454.1	467.0	478.6	490.3
85°	125.1	130.3	111.0	153.5	154.8	181.9	209.0	223.2	228.4	237.4	247.7
87.5°	32.3	37.4	20.6	43.9	38.7	50.3	58.1	61.9	60.6	67.1	71.0
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°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5413.5	5454.8	5434.1	5501.2	5527.0	5485.8	5558.0	5559.3	5507.7	5568.3	5601.9
5°	5329.6	5372.2	5359.3	5429.0	5461.2	5425.1	5512.8	5529.6	5479.3	5547.7	5601.9
7.5°	5244.5	5294.8	5278.0	5349.0	5387.7	5359.3	5453.5	5480.6	5441.9	5516.7	5589.0
10°	5171.0	5213.5	5195.5	5270.3	5303.8	5280.6	5373.5	5423.8	5387.7	5479.3	5565.7
12.5°	5098.7	5133.5	5112.9	5174.8	5207.1	5177.4	5290.9	5337.4	5311.6	5407.1	5518.0
15°	5005.8	5044.5	5016.1	5071.6	5096.1	5070.3	5163.2	5243.2	5211.0	5315.5	5438.0
17.5°	4934.9	4956.8	4918.1	4962.0	4976.1	4941.3	5035.5	5114.2	5091.0	5204.5	5346.4
20°	4856.2	4874.2	4820.0	4844.5	4843.3	4799.4	4885.8	4963.2	4947.8	5072.9	5234.2
22.5°	4768.4	4777.5	4714.2	4719.4	4716.8	4644.6	4722.0	4800.7	4794.2	4920.7	5101.3
25°	4675.5	4676.8	4595.5	4593.0	4564.6	4479.4	4547.8	4636.8	4617.5	4754.2	4943.9
27.5°	4583.9	4571.0	4473.0	4449.8	4404.6	4302.7	4363.3	4443.3	4431.7	4565.9	4776.2
30°	4485.9	4469.1	4349.1	4306.5	4240.8	4123.3	4173.7	4248.5	4254.9	4372.3	4593.0
32.5°	4393.0	4350.4	4217.5	4155.6	4073.0	3936.3	3963.4	4039.5	4049.8	4168.5	4395.6
35°	4273.0	4244.6	4080.8	3975.0	3893.7	3744.0	3772.4	3825.3	3840.8	3956.9	4187.9
37.5°	4159.5	4114.3	3940.1	3811.1	3706.6	3549.2	3557.0	3611.2	3626.6	3744.0	3972.4
40°	4042.1	3977.6	3790.5	3639.5	3519.6	3354.4	3345.4	3402.1	3413.8	3528.6	3735.0
42.5°	3916.9	3839.5	3629.2	3464.1	3326.0	3158.3	3140.2	3189.3	3202.2	3314.4	3517.0
45°	3790.5	3697.6	3464.1	3283.5	3132.5	2960.9	2942.9	2980.3	2999.6	3105.4	3300.2
47.5°	3656.3	3547.9	3293.8	3092.5	2936.4	2764.8	2742.9	2780.3	2795.8	2900.3	3084.8
50°	3515.7	3384.1	3118.3	2896.4	2741.6	2572.6	2540.3	2584.2	2598.4	2696.4	2877.1
52.5°	3360.9	3215.1	2931.2	2699.0	2544.2	2382.9	2344.2	2386.8	2403.6	2499.0	2665.5
55°	3197.0	3039.6	2742.9	2517.1	2349.4	2192.0	2159.7	2176.5	2212.6	2302.9	2457.8
57.5°	3012.5	2856.4	2544.2	2314.5	2153.3	2002.3	1975.2	1990.7	2024.3	2112.0	2251.3
60°	2816.4	2651.3	2341.6	2112.0	1955.9	1812.7	1788.2	1802.4	1838.5	1918.5	2047.5
62.5°	2622.9	2437.1	2132.6	1904.3	1762.4	1629.5	1623.0	1617.9	1651.4	1728.8	1842.3
65°	2388.1	2210.0	1914.6	1697.8	1568.8	1448.8	1423.0	1434.7	1466.9	1537.9	1656.6
67.5°	2136.5	1975.2	1691.4	1491.4	1376.6	1269.5	1247.6	1252.7	1286.3	1348.2	1451.4
70°	1869.4	1727.5	1463.0	1283.7	1186.9	1086.3	1072.1	1073.4	1105.7	1159.9	1250.2
72.5°	1589.5	1461.7	1232.1	1078.6	998.6	926.3	913.4	898.0	927.6	974.1	1051.5
75°	1304.4	1192.1	1002.5	877.3	814.1	753.5	741.8	726.4	756.0	796.0	856.7
77.5°	1016.6	926.3	779.3	682.5	633.5	588.3	578.0	561.2	590.9	620.6	668.3
80°	735.4	669.6	581.9	479.9	463.2	433.5	423.2	405.1	433.5	452.8	489.0
82.5°	474.8	430.9	380.6	309.6	307.1	285.1	280.0	259.3	285.1	296.7	323.8
85°	240.0	219.3	206.4	157.4	162.6	148.4	147.1	125.1	145.8	150.9	166.4
87.5°	68.4	72.2	64.5	38.7	49.0	46.4	46.4	33.5	46.4	46.4	52.9
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: P838230

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5STD-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9	5530.9
2.5°	5536.1	5558.0	5563.2	5561.9	5576.1	5653.5	5627.7	5653.5
5°	5549.0	5598.0	5610.9	5629.0	5652.2	5739.9	5711.5	5742.5
7.5°	5556.7	5630.3	5658.6	5693.5	5730.9	5828.9	5805.7	5836.7
10°	5556.7	5652.2	5693.5	5751.5	5801.8	5915.4	5893.4	5929.6
12.5°	5533.5	5656.1	5714.1	5795.4	5859.9	5982.5	5973.4	5999.2
15°	5485.8	5636.7	5716.7	5821.2	5901.2	6037.9	6034.1	6065.0
17.5°	5421.2	5603.2	5699.9	5831.5	5932.1	6085.7	6094.7	6111.5
20°	5340.0	5539.9	5666.4	5827.6	5954.1	6123.1	6134.7	6157.9
22.5°	5232.9	5463.8	5616.1	5810.9	5956.7	6138.6	6159.2	6181.2
25°	5106.4	5372.2	5550.3	5778.6	5943.8	6137.3	6165.7	6185.0
27.5°	4962.0	5253.5	5466.4	5727.0	5907.6	6116.6	6151.5	6174.7
30°	4794.2	5127.1	5370.9	5659.9	5858.6	6077.9	6115.4	6138.6
32.5°	4621.3	4987.8	5257.4	5573.5	5787.7	6016.0	6048.3	6066.3
35°	4433.0	4818.7	5120.6	5462.5	5696.1	5916.7	5941.2	5960.5
37.5°	4227.8	4635.5	4964.5	5337.4	5567.0	5778.6	5800.6	5822.5
40°	4016.3	4443.3	4789.1	5183.9	5413.5	5609.6	5632.8	5648.3
42.5°	3803.4	4230.4	4602.0	5003.2	5231.6	5420.0	5434.1	5449.6
45°	3587.9	4009.8	4391.7	4803.3	5029.0	5205.8	5211.0	5223.9
47.5°	3368.6	3781.5	4160.8	4574.9	4798.1	4959.4	4964.5	4974.9
50°	3148.0	3553.1	3914.3	4328.5	4546.5	4716.8	4693.6	4703.9
52.5°	2931.2	3313.1	3682.1	4062.7	4278.2	4429.1	4435.6	4414.9
55°	2718.4	3078.3	3417.6	3784.0	3989.2	4106.6	4102.7	4110.4
57.5°	2502.9	2840.9	3151.9	3487.3	3687.3	3798.2	3821.4	3794.4
60°	2283.6	2601.0	2879.6	3182.8	3376.3	3469.2	3496.3	3470.5
62.5°	2065.5	2357.1	2610.0	2874.5	3053.8	3168.6	3166.0	3137.7
65°	1847.5	2112.0	2337.8	2562.3	2718.4	2833.2	2828.0	2802.2
67.5°	1646.2	1864.3	2066.8	2248.7	2384.2	2462.9	2490.0	2459.0
70°	1424.3	1612.7	1790.7	1936.5	2048.8	2119.7	2145.5	2118.4
72.5°	1202.4	1362.4	1487.6	1628.2	1714.6	1774.0	1801.1	1775.3
75°	983.1	1114.7	1216.6	1326.3	1386.9	1437.2	1468.2	1442.4
77.5°	770.2	872.1	953.4	1033.4	1103.1	1114.7	1141.8	1125.0
80°	567.7	641.2	700.6	753.5	803.8	808.9	830.9	820.5
82.5°	378.0	427.0	442.5	498.0	530.3	525.1	547.0	539.3
85°	200.0	229.6	256.7	273.5	291.6	274.8	294.2	286.4
87.5°	67.1	71.0	61.9	87.7	96.8	82.6	94.2	90.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)