

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: P838106

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6LO-35-120-EDD**

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: P838106
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-LD4-6LO-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

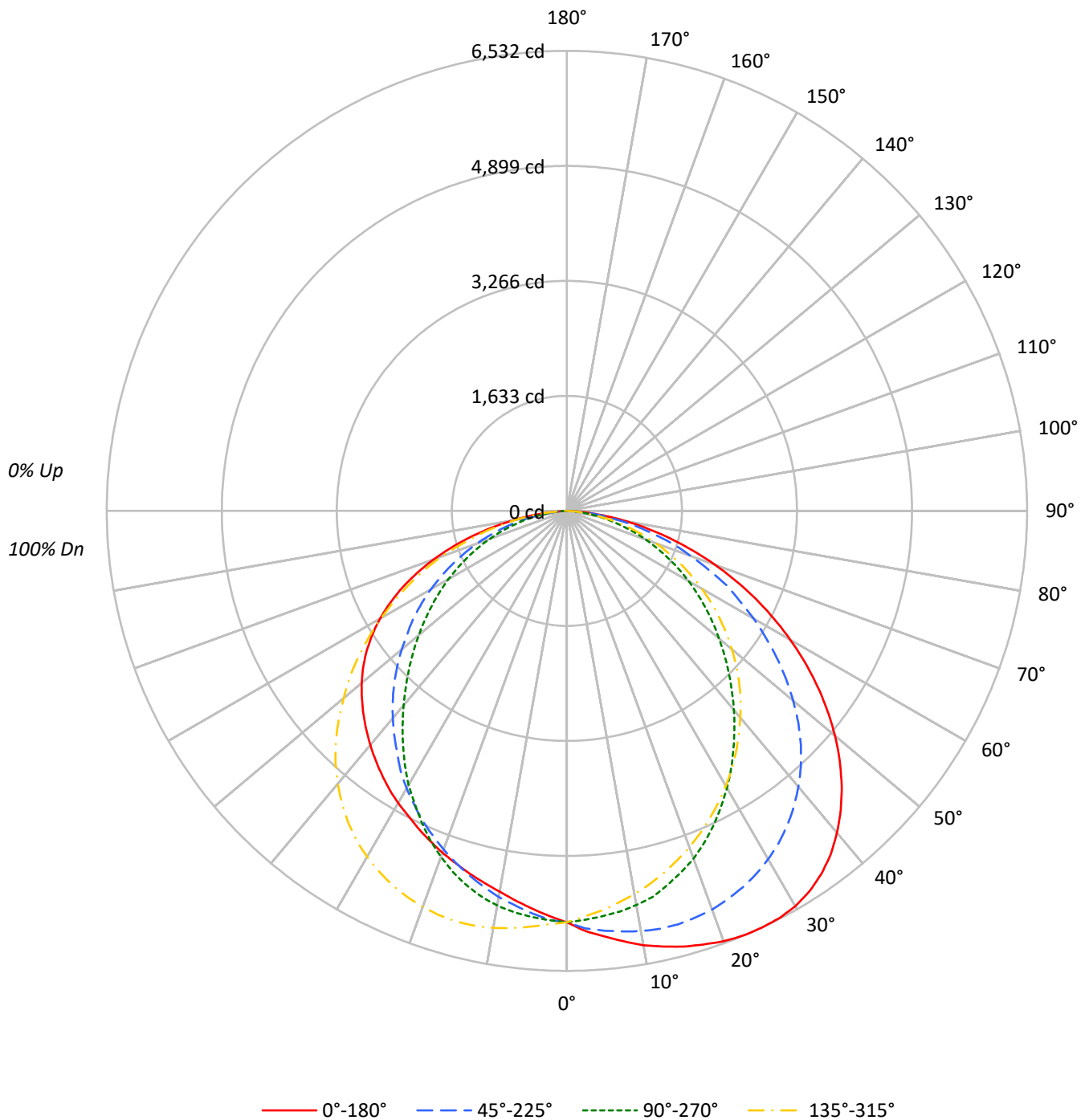
Lumens per Lamp: N/A
Luminaire Lumens: 17137.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	7860	7860	7860	7860
5°	8191	7803	7656	7816
10°	8556	7763	7500	7774
15°	8923	7664	7427	7666
20°	9312	7525	7394	7482
25°	9698	7315	7394	7240
30°	10072	7060	7443	6982
35°	10340	6770	7518	6663
40°	10478	6479	7622	6333
45°	10498	6184	7770	6028
50°	10399	5901	7960	5744
55°	10184	5638	8138	5482
60°	9863	5364	8246	5225
65°	9422	5049	8203	4932
70°	8801	4679	7912	4594
75°	7920	4172	7260	4151
80°	6715	3495	6103	3547
85°	4670	2314	3870	2377

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.6	3.2
10°-20°	1606.0	9.4
20°-30°	2461.2	14.4
30°-40°	2992.7	17.5
40°-50°	3111.1	18.2
50°-60°	2810.2	16.4
60°-70°	2136.5	12.5
70°-80°	1191.1	7.0
80°-90°	274.2	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°	4621.8	27.0
0°-40°	7614.5	44.4
0°-60°	13535.9	79.0
0°-90°	17137.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17137.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5841	5841	5841	5841	5841	
5°	6065	5777	5668	5787	6065	585
15°	6406	5502	5332	5503	6406	1816
25°	6532	4927	4980	4877	6532	3017
35°	6295	4122	4577	4056	6295	3932
45°	5517	3250	4084	3168	5517	4248
55°	4341	2404	3469	2337	4341	3875
65°	2960	1586	2577	1549	2960	2925
75°	1523	803	1397	798	1523	1618
85°	302	150	251	154	302	381
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°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
2.5°	5970.8	5883.6	5885.0	5961.3	5902.7	5931.3	5849.5	5880.9	5871.3	5878.1	5811.4
5°	6064.8	5970.8	5969.4	6034.8	5969.4	5981.7	5878.1	5898.6	5868.6	5849.5	5777.3
7.5°	6164.3	6070.3	6060.7	6118.0	6032.1	6022.6	5908.1	5908.1	5853.6	5805.9	5737.8
10°	6262.4	6165.6	6153.4	6197.0	6090.7	6059.4	5920.4	5898.6	5826.4	5755.5	5681.9
12.5°	6336.0	6237.9	6228.3	6255.6	6135.7	6078.4	5920.4	5878.1	5771.9	5672.4	5615.2
15°	6405.5	6304.6	6278.7	6292.4	6154.7	6078.4	5901.3	5835.9	5699.6	5568.8	5502.1
17.5°	6454.5	6357.8	6331.9	6330.5	6164.3	6055.3	5860.4	5770.5	5607.0	5448.9	5382.2
20°	6503.6	6406.8	6374.1	6349.6	6161.6	6023.9	5800.5	5679.2	5488.4	5311.3	5255.4
22.5°	6528.1	6428.6	6393.2	6356.4	6143.8	5966.7	5726.9	5572.9	5354.9	5143.7	5097.4
25°	6532.2	6430.0	6391.8	6338.7	6108.4	5898.6	5631.5	5444.8	5200.9	4966.6	4927.1
27.5°	6521.3	6409.5	6371.4	6307.4	6055.3	5815.5	5518.4	5299.1	5037.4	4778.5	4736.3
30°	6483.1	6370.0	6333.2	6250.1	5980.3	5713.3	5394.4	5136.9	4856.2	4581.0	4544.2
32.5°	6406.8	6296.5	6266.5	6183.4	5898.6	5594.7	5250.0	4962.5	4655.9	4392.9	4338.4
35°	6295.1	6184.7	6165.6	6078.4	5784.1	5453.0	5091.9	4771.7	4443.4	4174.9	4121.8
37.5°	6149.3	6056.6	6028.0	5942.2	5649.2	5292.2	4910.7	4564.6	4226.7	3937.8	3905.1
40°	5965.3	5878.1	5856.3	5780.0	5492.5	5113.7	4714.5	4350.7	4003.2	3734.8	3688.5
42.5°	5755.5	5673.8	5661.5	5582.5	5299.1	4916.2	4501.9	4128.6	3770.2	3511.4	3465.0
45°	5517.1	5438.0	5435.3	5360.4	5087.9	4696.8	4278.5	3903.8	3542.7	3274.3	3249.7
47.5°	5254.1	5183.2	5183.2	5113.7	4852.1	4455.6	4048.2	3669.4	3313.8	3076.7	3033.1
50°	4967.9	4901.2	4880.7	4846.7	4591.9	4192.6	3805.7	3440.5	3087.6	2861.4	2819.2
52.5°	4662.7	4605.5	4619.1	4556.4	4309.8	3918.8	3560.4	3183.0	2860.0	2654.3	2612.1
55°	4341.2	4259.4	4271.7	4248.5	4015.5	3636.7	3285.2	2970.4	2636.6	2443.1	2403.6
57.5°	4007.3	3901.0	3944.7	3931.0	3702.1	3347.8	3033.1	2729.2	2414.5	2236.0	2197.8
60°	3665.3	3563.1	3608.1	3595.8	3380.5	3059.0	2772.8	2490.8	2193.7	2031.6	1993.4
62.5°	3313.8	3219.8	3260.6	3251.1	3053.5	2763.3	2513.9	2255.1	1971.6	1825.8	1790.4
65°	2959.5	2869.6	2906.4	2899.6	2717.0	2496.2	2248.2	2011.2	1748.2	1621.5	1586.0
67.5°	2597.1	2513.9	2548.0	2548.0	2380.4	2169.2	1981.2	1764.5	1528.8	1419.8	1387.1
70°	2237.3	2159.7	2189.7	2186.9	2045.2	1873.5	1711.4	1517.9	1306.7	1216.8	1189.5
72.5°	1874.9	1806.8	1834.0	1831.3	1712.8	1602.4	1441.6	1274.0	1090.1	1017.8	993.3
75°	1523.4	1459.3	1485.2	1482.5	1385.7	1282.2	1174.5	1035.6	877.5	827.1	802.6
77.5°	1188.2	1122.8	1144.6	1144.6	1073.7	998.8	912.9	805.3	693.6	639.0	621.3
80°	866.6	835.3	824.4	825.7	778.0	729.0	685.4	581.8	500.1	463.3	451.0
82.5°	569.6	543.7	532.8	535.5	508.2	478.3	451.0	378.8	324.3	302.5	295.7
85°	302.5	283.4	273.9	280.7	275.2	258.9	245.3	196.2	162.1	154.0	149.9
87.5°	95.4	83.1	76.3	100.8	85.8	76.3	73.6	58.6	45.0	45.0	43.6
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°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
2.5°	5833.2	5833.2	5780.0	5767.8	5762.3	5769.1	5716.0	5706.5	5782.8	5756.9	5698.3
5°	5786.9	5784.1	5709.2	5695.6	5695.6	5687.4	5627.4	5613.8	5690.1	5668.3	5604.3
7.5°	5729.6	5721.4	5632.9	5623.3	5609.7	5604.3	5537.5	5528.0	5593.4	5579.7	5519.8
10°	5660.1	5652.0	5547.0	5540.2	5525.2	5514.3	5451.7	5444.8	5511.6	5489.8	5442.1
12.5°	5568.8	5553.9	5446.2	5439.4	5427.1	5423.0	5361.7	5359.0	5432.6	5410.8	5360.4
15°	5448.9	5436.7	5316.8	5319.5	5320.9	5320.9	5271.8	5269.1	5341.3	5331.8	5277.2
17.5°	5316.8	5300.4	5186.0	5194.1	5203.7	5214.6	5176.4	5183.2	5259.5	5247.3	5198.2
20°	5166.9	5150.5	5038.8	5062.0	5082.4	5104.2	5079.7	5098.8	5169.6	5164.2	5127.4
22.5°	4999.3	4982.9	4879.4	4914.8	4948.9	4989.7	4978.8	5000.6	5075.6	5074.2	5041.5
25°	4794.9	4799.0	4707.7	4751.3	4808.5	4865.8	4869.8	4905.3	4988.4	4980.2	4950.2
27.5°	4604.1	4609.6	4512.8	4586.4	4662.7	4736.3	4754.0	4803.1	4887.6	4880.7	4854.9
30°	4403.8	4410.7	4316.6	4417.5	4510.1	4600.0	4638.2	4705.0	4790.8	4790.8	4763.6
32.5°	4195.4	4207.6	4109.5	4244.4	4352.1	4457.0	4523.7	4593.2	4691.3	4688.6	4665.5
35°	3981.4	3995.1	3905.1	4076.8	4184.5	4312.5	4395.7	4488.3	4575.5	4576.9	4559.2
37.5°	3763.4	3779.8	3698.0	3886.1	4008.7	4159.9	4266.2	4358.9	4455.6	4461.1	4444.7
40°	3546.8	3564.5	3493.6	3674.9	3830.2	3999.2	4121.8	4230.8	4337.1	4339.8	4328.9
42.5°	3330.1	3349.2	3296.1	3473.2	3649.0	3830.2	3974.6	4098.6	4207.6	4214.4	4202.2
45°	3118.9	3135.3	3097.1	3290.6	3459.6	3657.1	3823.4	3963.7	4074.1	4083.6	4079.5
47.5°	2909.1	2924.1	2890.0	3067.2	3262.0	3471.8	3664.0	3819.3	3936.5	3947.4	3944.7
50°	2703.3	2715.6	2678.8	2864.1	3057.6	3281.1	3481.4	3661.2	3792.0	3802.9	3801.6
52.5°	2499.0	2511.2	2479.9	2674.7	2850.5	3086.2	3304.2	3499.1	3628.5	3644.9	3647.6
55°	2301.4	2306.8	2282.3	2469.0	2639.3	2885.9	3136.6	3326.0	3455.5	3469.1	3477.3
57.5°	2103.8	2105.2	2084.7	2263.2	2426.7	2678.8	2941.8	3140.7	3263.4	3277.0	3289.3
60°	1907.6	1906.2	1883.1	2056.1	2212.8	2462.2	2736.0	2933.6	3052.2	3064.4	3080.8
62.5°	1712.8	1708.7	1688.2	1847.7	1994.8	2241.4	2516.7	2707.4	2820.5	2828.7	2850.5
65°	1519.3	1515.2	1496.1	1643.3	1776.8	2012.5	2282.3	2463.5	2565.7	2576.6	2572.5
67.5°	1328.5	1320.3	1305.3	1437.5	1558.8	1776.8	2035.7	2208.7	2293.2	2302.8	2328.6
70°	1137.7	1128.2	1094.1	1234.5	1340.8	1535.6	1776.8	1930.8	2001.6	2011.2	2007.1
72.5°	949.7	940.2	903.4	1032.8	1122.8	1293.1	1508.4	1636.5	1697.8	1705.9	1705.9
75°	767.1	761.7	738.5	836.6	911.6	1050.5	1233.1	1339.4	1387.1	1396.6	1393.9
77.5°	591.4	587.3	564.1	648.6	707.2	810.7	957.9	1041.0	1076.4	1087.3	1110.5
80°	423.8	422.4	385.6	468.7	494.6	581.8	689.5	753.5	772.6	787.6	803.9
82.5°	271.2	272.5	235.7	306.6	317.5	373.3	440.1	479.6	493.3	505.5	517.8
85°	132.2	137.6	117.2	162.1	163.5	192.1	220.7	235.7	241.2	250.7	261.6
87.5°	34.1	39.5	21.8	46.3	40.9	53.1	61.3	65.4	64.0	70.9	74.9
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°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
2.5°	5717.4	5761.0	5739.2	5810.0	5837.3	5793.7	5870.0	5871.3	5816.8	5880.9	5916.3
5°	5628.8	5673.8	5660.1	5733.7	5767.8	5729.6	5822.3	5840.0	5786.9	5859.1	5916.3
7.5°	5538.9	5592.0	5574.3	5649.2	5690.1	5660.1	5759.6	5788.2	5747.3	5826.4	5902.7
10°	5461.2	5506.2	5487.1	5566.1	5601.5	5577.0	5675.1	5728.3	5690.1	5786.9	5878.1
12.5°	5384.9	5421.7	5399.9	5465.3	5499.3	5468.0	5587.9	5637.0	5609.7	5710.5	5827.7
15°	5286.8	5327.7	5297.7	5356.3	5382.2	5354.9	5453.0	5537.5	5503.4	5613.8	5743.2
17.5°	5211.8	5235.0	5194.1	5240.5	5255.4	5218.7	5318.1	5401.2	5376.7	5496.6	5646.5
20°	5128.7	5147.8	5090.6	5116.5	5115.1	5068.8	5160.1	5241.8	5225.5	5357.6	5528.0
22.5°	5036.1	5045.6	4978.8	4984.3	4981.6	4905.3	4987.0	5070.1	5063.3	5196.9	5387.6
25°	4938.0	4939.3	4853.5	4850.8	4820.8	4730.9	4803.1	4897.1	4876.7	5021.1	5221.4
27.5°	4841.2	4827.6	4724.0	4699.5	4651.8	4544.2	4608.2	4692.7	4680.4	4822.1	5044.2
30°	4737.7	4720.0	4593.2	4548.3	4478.8	4354.8	4407.9	4487.0	4493.8	4617.8	4850.8
32.5°	4639.6	4594.6	4454.3	4388.9	4301.6	4157.2	4185.8	4266.2	4277.1	4402.5	4642.3
35°	4512.8	4482.9	4309.8	4198.1	4112.2	3954.2	3984.2	4040.0	4056.4	4179.0	4422.9
37.5°	4392.9	4345.2	4161.3	4025.0	3914.7	3748.4	3756.6	3813.8	3830.2	3954.2	4195.4
40°	4268.9	4200.8	4003.2	3843.8	3717.1	3542.7	3533.2	3593.1	3605.4	3726.6	3944.7
42.5°	4136.8	4055.0	3832.9	3658.5	3512.7	3335.6	3316.5	3368.3	3381.9	3500.5	3714.4
45°	4003.2	3905.1	3658.5	3467.8	3308.3	3127.1	3108.0	3147.5	3168.0	3279.7	3485.5
47.5°	3861.5	3747.1	3478.7	3266.1	3101.2	2920.0	2896.8	2936.3	2952.7	3063.1	3257.9
50°	3713.0	3574.0	3293.3	3059.0	2895.5	2717.0	2682.9	2729.2	2744.2	2847.8	3038.5
52.5°	3549.5	3395.5	3095.8	2850.5	2687.0	2516.7	2475.8	2520.8	2538.5	2639.3	2815.1
55°	3376.5	3210.2	2896.8	2658.4	2481.2	2315.0	2280.9	2298.7	2336.8	2432.2	2595.7
57.5°	3181.6	3016.7	2687.0	2444.5	2274.1	2114.7	2086.1	2102.5	2137.9	2230.5	2377.7
60°	2974.5	2800.1	2473.1	2230.5	2065.7	1914.4	1888.5	1903.5	1941.7	2026.1	2162.4
62.5°	2770.1	2573.9	2252.3	2011.2	1861.3	1720.9	1714.1	1708.7	1744.1	1825.8	1945.8
65°	2522.1	2334.1	2022.1	1793.1	1656.9	1530.2	1502.9	1515.2	1549.2	1624.2	1749.5
67.5°	2256.4	2086.1	1786.3	1575.1	1453.9	1340.8	1317.6	1323.1	1358.5	1423.9	1532.9
70°	1974.4	1824.5	1545.2	1355.8	1253.6	1147.3	1132.3	1133.7	1167.7	1225.0	1320.3
72.5°	1678.7	1543.8	1301.3	1139.1	1054.6	978.3	964.7	948.4	979.7	1028.7	1110.5
75°	1377.6	1259.0	1058.7	926.6	859.8	795.7	783.5	767.1	798.5	840.7	904.7
77.5°	1073.7	978.3	823.0	720.8	669.0	621.3	610.4	592.7	624.1	655.4	705.8
80°	776.7	707.2	614.5	506.9	489.2	457.8	446.9	427.8	457.8	478.3	516.4
82.5°	501.4	455.1	402.0	327.0	324.3	301.1	295.7	273.9	301.1	313.4	342.0
85°	253.4	231.6	218.0	166.2	171.7	156.7	155.3	132.2	154.0	159.4	175.8
87.5°	72.2	76.3	68.1	40.9	51.8	49.1	49.1	35.4	49.1	49.1	55.9
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: P838106

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6LO-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
2.5°	5846.8	5870.0	5875.4	5874.1	5889.0	5970.8	5943.5	5970.8
5°	5860.4	5912.2	5925.8	5944.9	5969.4	6062.1	6032.1	6064.8
7.5°	5868.6	5946.3	5976.2	6013.0	6052.6	6156.1	6131.6	6164.3
10°	5868.6	5969.4	6013.0	6074.4	6127.5	6247.4	6224.2	6262.4
12.5°	5844.1	5973.5	6034.8	6120.7	6188.8	6318.3	6308.7	6336.0
15°	5793.7	5953.1	6037.6	6147.9	6232.4	6376.8	6372.8	6405.5
17.5°	5725.5	5917.7	6019.9	6158.8	6265.1	6427.3	6436.8	6454.5
20°	5639.7	5850.9	5984.4	6154.7	6288.3	6466.8	6479.0	6503.6
22.5°	5526.6	5770.5	5931.3	6137.0	6291.0	6483.1	6504.9	6528.1
25°	5393.1	5673.8	5861.8	6103.0	6277.4	6481.8	6511.7	6532.2
27.5°	5240.5	5548.4	5773.2	6048.5	6239.2	6460.0	6496.8	6521.3
30°	5063.3	5414.9	5672.4	5977.6	6187.4	6419.1	6458.6	6483.1
32.5°	4880.7	5267.7	5552.5	5886.3	6112.5	6353.7	6387.7	6406.8
35°	4681.8	5089.2	5408.1	5769.1	6015.8	6248.8	6274.7	6295.1
37.5°	4465.2	4895.7	5243.2	5637.0	5879.5	6103.0	6126.1	6149.3
40°	4241.7	4692.7	5057.9	5474.8	5717.4	5924.5	5949.0	5965.3
42.5°	4016.9	4467.9	4860.3	5284.1	5525.2	5724.2	5739.2	5755.5
45°	3789.3	4234.9	4638.2	5072.9	5311.3	5498.0	5503.4	5517.1
47.5°	3557.7	3993.7	4394.3	4831.7	5067.4	5237.7	5243.2	5254.1
50°	3324.7	3752.5	4134.0	4571.4	4801.7	4981.6	4957.0	4967.9
52.5°	3095.8	3499.1	3888.8	4290.7	4518.3	4677.7	4684.5	4662.7
55°	2870.9	3251.1	3609.5	3996.4	4213.1	4337.1	4333.0	4341.2
57.5°	2643.4	3000.4	3328.8	3683.0	3894.2	4011.4	4035.9	4007.3
60°	2411.8	2746.9	3041.3	3361.5	3565.9	3664.0	3692.6	3665.3
62.5°	2181.5	2489.4	2756.5	3035.8	3225.2	3346.5	3343.8	3313.8
65°	1951.2	2230.5	2469.0	2706.1	2870.9	2992.2	2986.8	2959.5
67.5°	1738.6	1968.9	2182.8	2375.0	2518.0	2601.2	2629.8	2597.1
70°	1504.3	1703.2	1891.3	2045.2	2163.8	2238.7	2266.0	2237.3
72.5°	1269.9	1438.9	1571.0	1719.6	1810.9	1873.5	1902.2	1874.9
75°	1038.3	1177.3	1284.9	1400.7	1464.8	1517.9	1550.6	1523.4
77.5°	813.5	921.1	1006.9	1091.4	1165.0	1177.3	1205.9	1188.2
80°	599.5	677.2	739.9	795.7	848.9	854.3	877.5	866.6
82.5°	399.2	451.0	467.4	526.0	560.0	554.6	577.7	569.6
85°	211.2	242.5	271.2	288.9	307.9	290.2	310.7	302.5
87.5°	70.9	74.9	65.4	92.7	102.2	87.2	99.5	95.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)