

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: P838142

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6LO-50-120-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: P838142
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-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

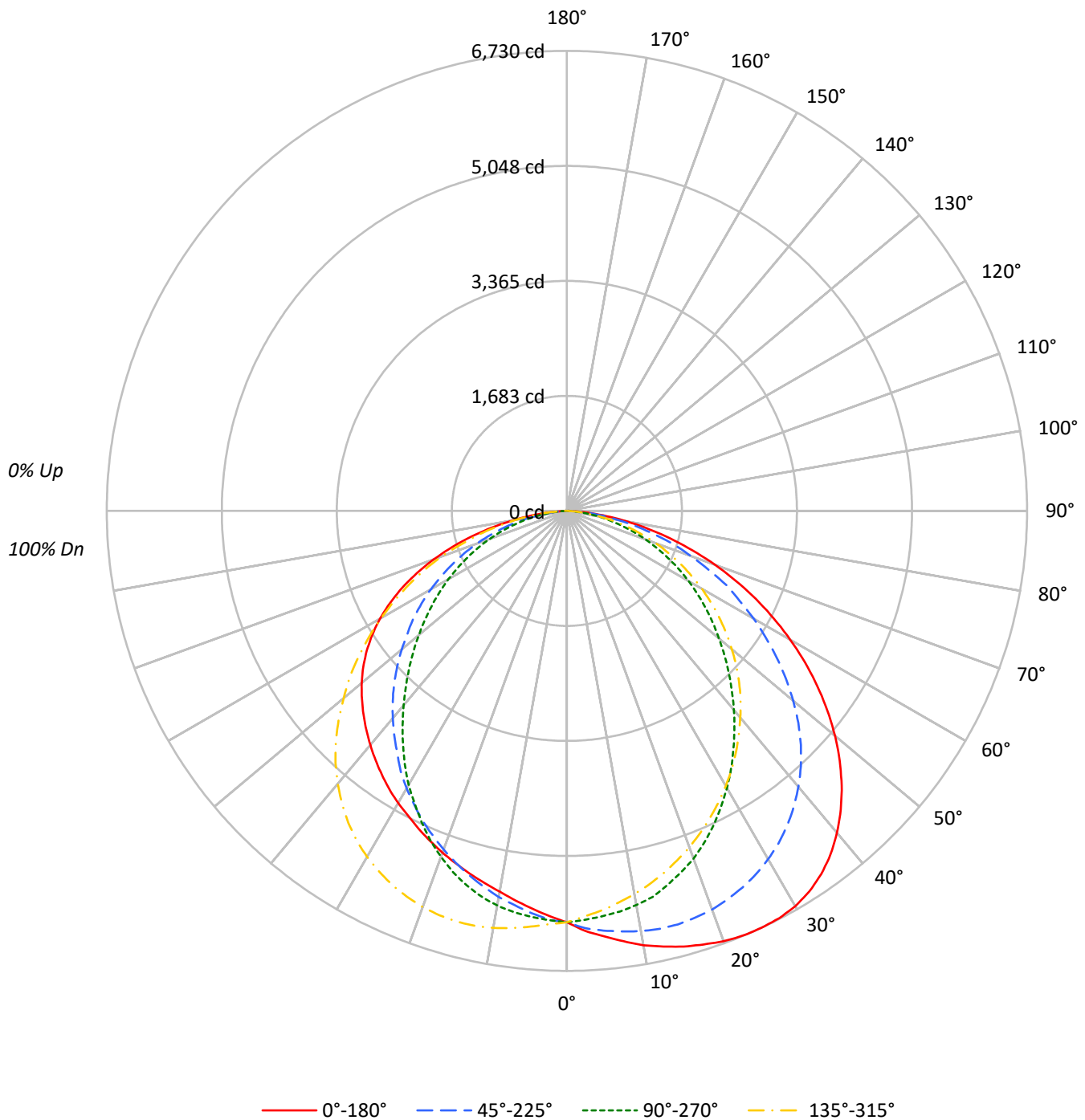
Lumens per Lamp: N/A
Luminaire Lumens: 17657.1 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8098	8098	8098	8098
5°	8440	8039	7888	8053
10°	8815	7998	7728	8010
15°	9193	7896	7652	7898
20°	9594	7753	7618	7709
25°	9991	7536	7618	7459
30°	10378	7274	7669	7193
35°	10653	6975	7746	6865
40°	10795	6675	7853	6524
45°	10816	6371	8006	6211
50°	10714	6080	8202	5918
55°	10492	5809	8384	5648
60°	10162	5527	8496	5383
65°	9708	5202	8452	5082
70°	9068	4821	8152	4733
75°	8159	4299	7481	4277
80°	6919	3601	6287	3655
85°	4812	2384	3988	2448

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.4	3.2
10°-20°	1654.7	9.4
20°-30°	2535.8	14.4
30°-40°	3083.4	17.5
40°-50°	3205.4	18.2
50°-60°	2895.4	16.4
60°-70°	2201.3	12.5
70°-80°	1227.2	7.0
80°-90°	282.5	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°	4761.9	27.0
0°-40°	7845.3	44.4
0°-60°	13946.1	79.0
0°-90°	17657.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17657.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6018	6018	6018	6018	6018	
5°	6249	5952	5840	5962	6249	603
15°	6600	5669	5493	5670	6600	1871
25°	6730	5076	5131	5024	6730	3108
35°	6486	4247	4716	4179	6486	4051
45°	5684	3348	4207	3264	5684	4376
55°	4473	2476	3574	2408	4473	3993
65°	3049	1634	2655	1596	3049	3013
75°	1570	827	1439	823	1570	1667
85°	312	154	258	159	312	392
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°	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4
2.5°	6151.7	6061.9	6063.3	6141.9	6081.5	6111.0	6026.8	6059.1	6049.3	6056.3	5987.5
5°	6248.6	6151.7	6150.3	6217.7	6150.3	6163.0	6056.3	6077.3	6046.4	6026.8	5952.4
7.5°	6351.1	6254.2	6244.4	6303.3	6214.9	6205.1	6087.2	6087.2	6031.0	5981.9	5911.7
10°	6452.2	6352.5	6339.9	6384.8	6275.3	6243.0	6099.8	6077.3	6002.9	5929.9	5854.1
12.5°	6528.0	6426.9	6417.1	6445.1	6321.6	6262.6	6099.8	6056.3	5946.8	5844.3	5785.3
15°	6599.6	6495.7	6469.0	6483.0	6341.3	6262.6	6080.1	6012.7	5872.4	5737.6	5668.8
17.5°	6650.1	6550.4	6523.8	6522.4	6351.1	6238.8	6038.0	5945.4	5776.9	5614.1	5545.3
20°	6700.6	6601.0	6567.3	6542.0	6348.3	6206.5	5976.2	5851.3	5654.8	5472.3	5414.7
22.5°	6725.9	6623.4	6586.9	6549.0	6330.0	6147.5	5900.4	5741.8	5517.2	5299.6	5251.9
25°	6730.1	6624.8	6585.5	6530.8	6293.5	6077.3	5802.2	5609.8	5358.5	5117.1	5076.4
27.5°	6718.9	6603.8	6564.5	6498.5	6238.8	5991.7	5685.6	5459.6	5190.1	4923.4	4879.8
30°	6679.6	6563.1	6525.2	6439.5	6161.6	5886.4	5557.9	5292.6	5003.4	4719.8	4681.9
32.5°	6601.0	6487.3	6456.4	6370.7	6077.3	5764.3	5409.1	5112.9	4797.0	4526.1	4469.9
35°	6485.9	6372.1	6352.5	6262.6	5959.4	5618.3	5246.2	4916.3	4578.0	4301.4	4246.7
37.5°	6335.6	6240.2	6210.7	6122.3	5820.4	5452.6	5059.5	4702.9	4354.8	4057.2	4023.5
40°	6146.1	6056.3	6033.8	5955.2	5659.0	5268.7	4857.4	4482.5	4124.6	3848.0	3800.3
42.5°	5929.9	5845.7	5833.1	5751.6	5459.6	5065.1	4638.4	4253.7	3884.5	3617.8	3570.0
45°	5684.2	5602.8	5600.0	5522.8	5242.0	4839.1	4408.1	4022.1	3650.0	3373.5	3348.2
47.5°	5413.3	5340.3	5340.3	5268.7	4999.2	4590.6	4170.9	3780.6	3414.2	3169.9	3125.0
50°	5118.5	5049.7	5028.6	4993.5	4731.0	4319.7	3921.0	3544.8	3181.2	2948.1	2904.6
52.5°	4804.0	4745.1	4759.1	4694.5	4440.4	4037.5	3668.3	3279.4	2946.7	2734.7	2691.2
55°	4472.7	4388.5	4401.1	4377.2	4137.2	3746.9	3384.7	3060.4	2716.5	2517.1	2476.4
57.5°	4128.8	4019.3	4064.2	4050.1	3814.3	3449.3	3125.0	2811.9	2487.6	2303.7	2264.4
60°	3776.4	3671.1	3717.4	3704.8	3483.0	3151.7	2856.9	2566.3	2260.2	2093.2	2053.9
62.5°	3414.2	3317.3	3359.4	3349.6	3146.1	2847.0	2590.1	2323.4	2031.4	1881.2	1844.7
65°	3049.2	2956.5	2994.4	2987.4	2799.3	2571.9	2316.4	2072.1	1801.2	1670.6	1634.1
67.5°	2675.8	2590.1	2625.2	2625.2	2452.6	2235.0	2041.2	1818.0	1575.1	1462.8	1429.1
70°	2305.1	2225.1	2256.0	2253.2	2107.2	1930.3	1763.3	1563.9	1346.3	1253.7	1225.6
72.5°	1931.7	1861.5	1889.6	1886.8	1764.7	1650.9	1485.3	1312.6	1123.1	1048.7	1023.4
75°	1569.5	1503.5	1530.2	1527.4	1427.7	1321.0	1210.1	1066.9	904.1	852.1	826.9
77.5°	1224.2	1156.8	1179.2	1179.2	1106.2	1029.0	940.6	829.7	714.6	658.4	640.2
80°	892.9	860.6	849.3	850.7	801.6	751.1	706.1	599.4	515.2	477.3	464.7
82.5°	586.8	560.1	548.9	551.7	523.6	492.8	464.7	390.3	334.1	311.7	304.6
85°	311.7	292.0	282.2	289.2	283.6	266.7	252.7	202.2	167.1	158.6	154.4
87.5°	98.3	85.6	78.6	103.9	88.4	78.6	75.8	60.4	46.3	46.3	44.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4
2.5°	6009.9	6009.9	5955.2	5942.6	5936.9	5944.0	5889.2	5879.4	5958.0	5931.3	5871.0
5°	5962.2	5959.4	5882.2	5868.2	5868.2	5859.7	5798.0	5783.9	5862.5	5840.1	5774.1
7.5°	5903.2	5894.8	5803.6	5793.7	5779.7	5774.1	5705.3	5695.5	5762.9	5748.8	5687.1
10°	5831.7	5823.2	5715.1	5708.1	5692.7	5681.4	5616.9	5609.8	5678.6	5656.2	5607.0
12.5°	5737.6	5722.2	5611.2	5604.2	5591.6	5587.4	5524.2	5521.4	5597.2	5574.7	5522.8
15°	5614.1	5601.4	5477.9	5480.7	5482.1	5482.1	5431.6	5428.7	5503.1	5493.3	5437.2
17.5°	5477.9	5461.0	5343.1	5351.5	5361.4	5372.6	5333.3	5340.3	5418.9	5406.3	5355.7
20°	5323.5	5306.6	5191.5	5215.4	5236.4	5258.9	5233.6	5253.3	5326.3	5320.6	5282.7
22.5°	5150.8	5133.9	5027.2	5063.7	5098.8	5141.0	5129.7	5152.2	5229.4	5228.0	5194.3
25°	4940.2	4944.4	4850.4	4895.3	4954.2	5013.2	5017.4	5053.9	5139.5	5131.1	5100.2
27.5°	4743.7	4749.3	4649.6	4725.4	4804.0	4879.8	4898.1	4948.6	5035.7	5028.6	5002.0
30°	4537.3	4544.3	4447.4	4551.3	4646.8	4739.4	4778.8	4847.5	4936.0	4936.0	4907.9
32.5°	4322.5	4335.1	4234.1	4373.0	4483.9	4592.0	4660.8	4732.4	4833.5	4830.7	4806.8
35°	4102.1	4116.1	4023.5	4200.4	4311.3	4443.2	4528.9	4624.3	4714.2	4715.6	4697.3
37.5°	3877.5	3894.3	3810.1	4003.8	4130.2	4286.0	4395.5	4491.0	4590.6	4596.3	4579.4
40°	3654.3	3672.5	3599.5	3786.2	3946.3	4120.3	4246.7	4359.0	4468.5	4471.3	4460.1
42.5°	3431.0	3450.7	3395.9	3578.4	3759.5	3946.3	4095.1	4222.8	4335.1	4342.2	4329.5
45°	3213.4	3230.3	3191.0	3390.3	3564.4	3768.0	3939.2	4083.8	4197.6	4207.4	4203.2
47.5°	2997.2	3012.7	2977.6	3160.1	3360.9	3577.0	3775.0	3935.0	4055.8	4067.0	4064.2
50°	2785.3	2797.9	2760.0	2950.9	3150.3	3380.5	3586.9	3772.2	3907.0	3918.2	3916.8
52.5°	2574.7	2587.3	2555.0	2755.8	2936.9	3179.8	3404.4	3605.1	3738.5	3755.3	3758.1
55°	2371.1	2376.7	2351.5	2543.8	2719.3	2973.4	3231.7	3426.8	3560.2	3574.2	3582.7
57.5°	2167.6	2169.0	2147.9	2331.8	2500.3	2760.0	3030.9	3235.9	3362.3	3376.3	3388.9
60°	1965.4	1964.0	1940.1	2118.4	2279.9	2536.8	2819.0	3022.5	3144.7	3157.3	3174.1
62.5°	1764.7	1760.4	1739.4	1903.6	2055.3	2309.4	2592.9	2789.5	2906.0	2914.4	2936.9
65°	1565.3	1561.1	1541.4	1693.1	1830.6	2073.5	2351.5	2538.2	2643.5	2654.7	2650.5
67.5°	1368.8	1360.3	1344.9	1481.1	1606.0	1830.6	2097.4	2275.7	2362.7	2372.5	2399.2
70°	1172.2	1162.4	1127.3	1271.9	1381.4	1582.2	1830.6	1989.3	2062.3	2072.1	2067.9
72.5°	978.5	968.7	930.8	1064.1	1156.8	1332.3	1554.1	1686.0	1749.2	1757.6	1757.6
75°	790.4	784.8	760.9	862.0	939.2	1082.4	1270.5	1380.0	1429.1	1439.0	1436.2
77.5°	609.3	605.1	581.2	668.2	728.6	835.3	986.9	1072.6	1109.1	1120.3	1144.1
80°	436.6	435.2	397.3	482.9	509.6	599.4	710.4	776.3	796.0	811.4	828.3
82.5°	279.4	280.8	242.9	315.9	327.1	384.7	453.4	494.2	508.2	520.8	533.5
85°	136.2	141.8	120.7	167.1	168.5	197.9	227.4	242.9	248.5	258.3	269.5
87.5°	35.1	40.7	22.5	47.7	42.1	54.8	63.2	67.4	66.0	73.0	77.2
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°	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4
2.5°	5890.6	5935.5	5913.1	5986.1	6014.2	5969.2	6047.8	6049.3	5993.1	6059.1	6095.6
5°	5799.4	5845.7	5831.7	5907.5	5942.6	5903.2	5998.7	6017.0	5962.2	6036.6	6095.6
7.5°	5706.7	5761.5	5743.2	5820.4	5862.5	5831.7	5934.1	5963.6	5921.5	6002.9	6081.5
10°	5626.7	5673.0	5653.4	5734.8	5771.3	5746.0	5847.1	5901.8	5862.5	5962.2	6056.3
12.5°	5548.1	5586.0	5563.5	5630.9	5666.0	5633.7	5757.2	5807.8	5779.7	5883.6	6004.3
15°	5447.0	5489.1	5458.2	5518.6	5545.3	5517.2	5618.3	5705.3	5670.2	5783.9	5917.3
17.5°	5369.8	5393.6	5351.5	5399.3	5414.7	5376.8	5479.3	5564.9	5539.6	5663.2	5817.6
20°	5284.1	5303.8	5244.8	5271.5	5270.1	5222.4	5316.4	5400.7	5383.8	5520.0	5695.5
22.5°	5188.7	5198.5	5129.7	5135.3	5132.5	5053.9	5138.1	5223.8	5216.8	5354.3	5550.9
25°	5087.6	5089.0	5000.6	4997.8	4966.9	4874.2	4948.6	5045.5	5024.4	5173.2	5379.6
27.5°	4987.9	4973.9	4867.2	4841.9	4792.8	4681.9	4747.9	4834.9	4822.3	4968.3	5197.1
30°	4881.2	4863.0	4732.4	4686.1	4614.5	4486.7	4541.5	4622.9	4629.9	4757.7	4997.8
32.5°	4780.2	4733.8	4589.2	4521.8	4432.0	4283.2	4312.7	4395.5	4406.7	4535.9	4783.0
35°	4649.6	4618.7	4440.4	4325.3	4236.9	4074.0	4104.9	4162.5	4179.3	4305.7	4556.9
37.5°	4526.1	4476.9	4287.4	4147.0	4033.3	3862.0	3870.5	3929.4	3946.3	4074.0	4322.5
40°	4398.3	4328.1	4124.6	3960.3	3829.7	3650.0	3640.2	3702.0	3714.6	3839.6	4064.2
42.5°	4262.1	4177.9	3949.1	3769.4	3619.2	3436.7	3417.0	3470.4	3484.4	3606.5	3826.9
45°	4124.6	4023.5	3769.4	3572.8	3408.6	3221.9	3202.2	3242.9	3264.0	3379.1	3591.1
47.5°	3978.6	3860.6	3584.1	3365.1	3195.2	3008.5	2984.6	3025.3	3042.2	3155.9	3356.6
50°	3825.5	3682.3	3393.1	3151.7	2983.2	2799.3	2764.2	2811.9	2827.4	2934.1	3130.6
52.5°	3657.1	3498.4	3189.6	2936.9	2768.4	2592.9	2550.8	2597.1	2615.4	2719.3	2900.4
55°	3478.8	3307.5	2984.6	2738.9	2556.4	2385.2	2350.1	2368.3	2407.6	2505.9	2674.4
57.5°	3278.0	3108.2	2768.4	2518.5	2343.0	2178.8	2149.3	2166.2	2202.7	2298.1	2449.7
60°	3064.6	2884.9	2548.0	2298.1	2128.3	1972.4	1945.8	1961.2	2000.5	2087.5	2227.9
62.5°	2854.1	2651.9	2320.6	2072.1	1917.7	1773.1	1766.1	1760.4	1796.9	1881.2	2004.7
65°	2598.6	2404.8	2083.3	1847.5	1707.1	1576.5	1548.5	1561.1	1596.2	1673.4	1802.6
67.5°	2324.8	2149.3	1840.5	1622.9	1497.9	1381.4	1357.5	1363.2	1399.7	1467.0	1579.3
70°	2034.2	1879.8	1592.0	1396.8	1291.6	1182.1	1166.6	1168.0	1203.1	1262.1	1360.3
72.5°	1729.6	1590.6	1340.7	1173.6	1086.6	1008.0	993.9	977.1	1009.4	1059.9	1144.1
75°	1419.3	1297.2	1090.8	954.6	885.8	819.9	807.2	790.4	822.7	866.2	932.2
77.5°	1106.2	1008.0	847.9	742.6	689.3	640.2	628.9	610.7	643.0	675.3	727.2
80°	800.2	728.6	633.1	522.2	504.0	471.7	460.5	440.8	471.7	492.8	532.1
82.5°	516.6	468.9	414.1	336.9	334.1	310.3	304.6	282.2	310.3	322.9	352.4
85°	261.1	238.7	224.6	171.3	176.9	161.4	160.0	136.2	158.6	164.3	181.1
87.5°	74.4	78.6	70.2	42.1	53.3	50.5	50.5	36.5	50.5	50.5	57.6
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: P838142

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6LO-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4	6018.4
2.5°	6024.0	6047.8	6053.5	6052.1	6067.5	6151.7	6123.7	6151.7
5°	6038.0	6091.4	6105.4	6125.1	6150.3	6245.8	6214.9	6248.6
7.5°	6046.4	6126.5	6157.3	6195.3	6236.0	6342.7	6317.4	6351.1
10°	6046.4	6150.3	6195.3	6258.4	6313.2	6436.7	6412.9	6452.2
12.5°	6021.2	6154.5	6217.7	6306.2	6376.4	6509.7	6499.9	6528.0
15°	5969.2	6133.5	6220.5	6334.2	6421.3	6570.1	6565.9	6599.6
17.5°	5899.0	6097.0	6202.3	6345.5	6455.0	6622.0	6631.9	6650.1
20°	5810.6	6028.2	6165.8	6341.3	6478.8	6662.7	6675.4	6700.6
22.5°	5694.1	5945.4	6111.0	6323.0	6481.6	6679.6	6702.0	6725.9
25°	5556.5	5845.7	6039.4	6287.9	6467.6	6678.2	6709.1	6730.1
27.5°	5399.3	5716.5	5948.2	6231.8	6428.3	6655.7	6693.6	6718.9
30°	5216.8	5579.0	5844.3	6158.8	6374.9	6613.6	6654.3	6679.6
32.5°	5028.6	5427.3	5720.7	6064.7	6297.7	6546.2	6581.3	6601.0
35°	4823.7	5243.4	5571.9	5944.0	6198.1	6438.1	6464.8	6485.9
37.5°	4600.5	5044.1	5402.1	5807.8	6057.7	6287.9	6311.8	6335.6
40°	4370.2	4834.9	5211.1	5640.7	5890.6	6104.0	6129.3	6146.1
42.5°	4138.6	4603.3	5007.6	5444.2	5692.7	5897.6	5913.1	5929.9
45°	3904.1	4363.2	4778.8	5226.6	5472.3	5664.6	5670.2	5684.2
47.5°	3665.5	4114.7	4527.5	4978.1	5221.0	5396.5	5402.1	5413.3
50°	3425.4	3866.2	4259.3	4710.0	4947.2	5132.5	5107.3	5118.5
52.5°	3189.6	3605.1	4006.6	4420.8	4655.2	4819.5	4826.5	4804.0
55°	2957.9	3349.6	3718.8	4117.5	4340.7	4468.5	4464.3	4472.7
57.5°	2723.5	3091.3	3429.6	3794.6	4012.2	4133.0	4158.2	4128.8
60°	2484.8	2830.2	3133.4	3463.3	3673.9	3775.0	3804.5	3776.4
62.5°	2247.6	2564.9	2840.0	3127.8	3322.9	3447.9	3445.1	3414.2
65°	2010.3	2298.1	2543.8	2788.1	2957.9	3082.9	3077.3	3049.2
67.5°	1791.3	2028.6	2249.0	2446.9	2594.3	2680.0	2709.5	2675.8
70°	1549.9	1754.8	1948.6	2107.2	2229.3	2306.5	2334.6	2305.1
72.5°	1308.4	1482.5	1618.7	1771.7	1865.7	1930.3	1959.8	1931.7
75°	1069.7	1212.9	1323.8	1443.2	1509.2	1563.9	1597.6	1569.5
77.5°	838.1	949.0	1037.5	1124.5	1200.3	1212.9	1242.4	1224.2
80°	617.7	697.7	762.3	819.9	874.6	880.2	904.1	892.9
82.5°	411.3	464.7	481.5	541.9	577.0	571.4	595.2	586.8
85°	217.6	249.9	279.4	297.6	317.3	299.0	320.1	311.7
87.5°	73.0	77.2	67.4	95.5	105.3	89.8	102.5	98.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)