

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: P838087

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-30-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838087
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-LD4-5HI-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

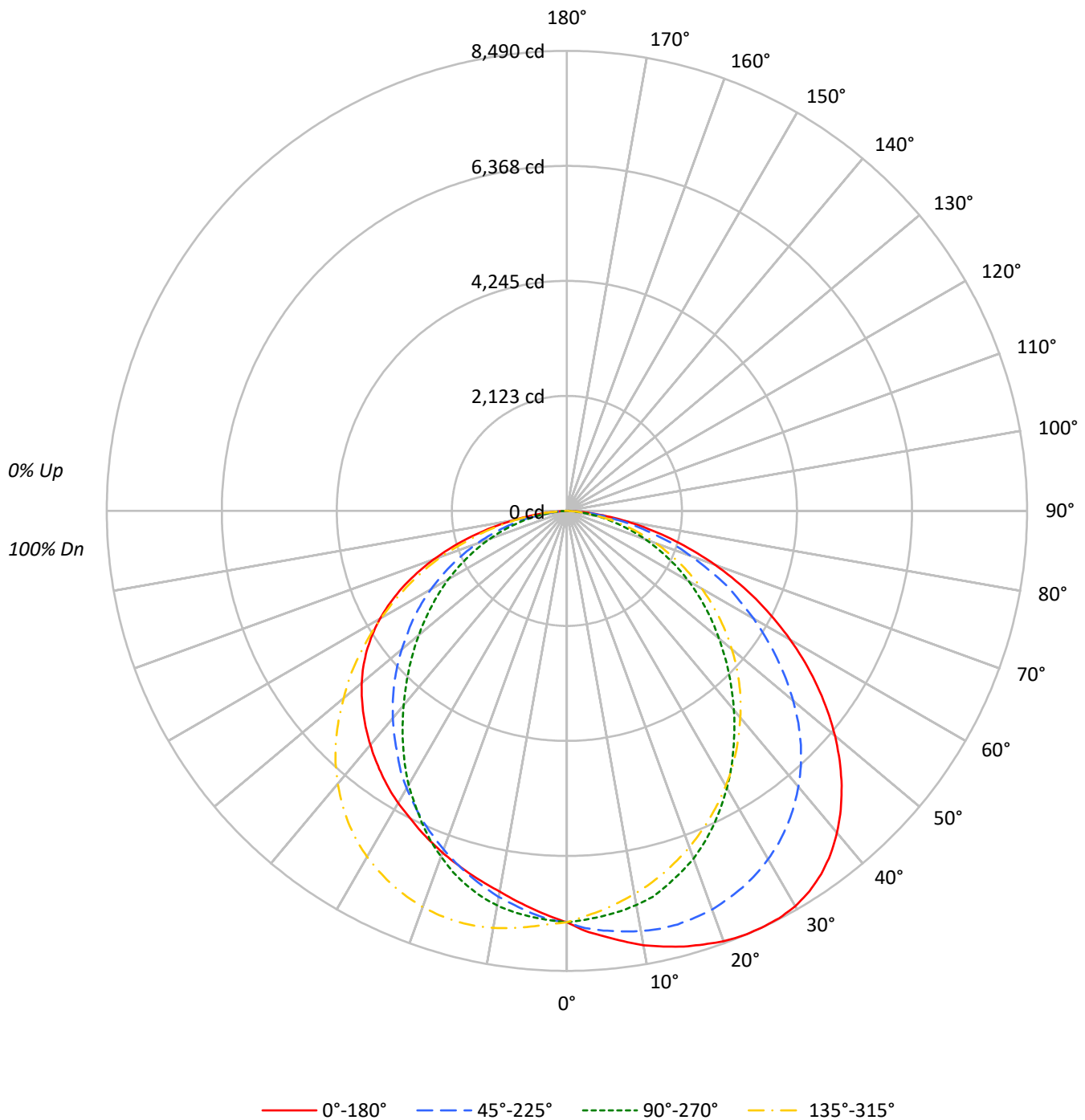
Lumens per Lamp: N/A
Luminaire Lumens: 22273.7 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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



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	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°	10215	10215	10215	10215
5°	10646	10141	9950	10158
10°	11120	10089	9748	10104
15°	11596	9961	9653	9964
20°	12103	9780	9610	9724
25°	12604	9507	9609	9409
30°	13091	9176	9674	9074
35°	13439	8799	9771	8659
40°	13618	8420	9907	8230
45°	13644	8037	10099	7835
50°	13515	7670	10346	7466
55°	13235	7328	10577	7124
60°	12819	6972	10718	6791
65°	12246	6563	10662	6410
70°	11440	6082	10283	5971
75°	10293	5423	9436	5395
80°	8727	4542	7931	4610
85°	6069	3007	5030	3089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.8	3.2
10°-20°	2087.3	9.4
20°-30°	3198.8	14.4
30°-40°	3889.6	17.5
40°-50°	4043.5	18.2
50°-60°	3652.5	16.4
60°-70°	2776.8	12.5
70°-80°	1548.1	7.0
80°-90°	356.4	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°	6006.9	27.0
0°-40°	9896.5	44.4
0°-60°	17592.4	79.0
0°-90°	22273.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22273.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7592	7592	7592	7592	7592	
5°	7882	7509	7367	7521	7882	760
15°	8325	7151	6930	7153	8325	2360
25°	8490	6404	6473	6338	8490	3921
35°	8182	5357	5948	5272	8182	5110
45°	7170	4224	5308	4117	7170	5521
55°	5642	3124	4509	3037	5642	5037
65°	3846	2061	3349	2014	3846	3801
75°	1980	1043	1815	1038	1980	2103
85°	393	195	326	200	393	495
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°	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9
2.5°	7760.2	7646.8	7648.6	7747.8	7671.6	7708.8	7602.6	7643.3	7630.9	7639.8	7553.0
5°	7882.4	7760.2	7758.4	7843.4	7758.4	7774.4	7639.8	7666.3	7627.4	7602.6	7508.7
7.5°	8011.7	7889.5	7877.1	7951.4	7839.9	7827.5	7678.7	7678.7	7607.9	7545.9	7457.4
10°	8139.2	8013.4	7997.5	8054.2	7916.0	7875.3	7694.7	7666.3	7572.5	7480.4	7384.7
12.5°	8234.8	8107.3	8094.9	8130.3	7974.5	7900.1	7694.7	7639.8	7501.6	7372.4	7298.0
15°	8325.1	8194.1	8160.4	8178.1	7999.3	7900.1	7669.9	7584.9	7407.8	7237.8	7151.0
17.5°	8388.9	8263.1	8229.5	8227.7	8011.7	7870.0	7616.7	7499.9	7287.3	7081.9	6995.1
20°	8452.6	8326.9	8284.4	8252.5	8008.1	7829.2	7538.8	7381.2	7133.3	6903.1	6830.4
22.5°	8484.5	8355.2	8309.2	8261.4	7985.1	7754.9	7443.2	7243.1	6959.7	6685.2	6625.0
25°	8489.8	8357.0	8307.4	8238.3	7939.0	7666.3	7319.2	7076.6	6759.6	6455.0	6403.7
27.5°	8475.6	8330.4	8280.8	8197.6	7870.0	7558.3	7172.2	6887.1	6547.1	6210.6	6155.7
30°	8426.0	8279.1	8231.2	8123.2	7772.6	7425.5	7011.1	6676.4	6311.6	5953.8	5906.0
32.5°	8326.9	8183.4	8144.5	8036.4	7666.3	7271.4	6823.4	6449.7	6051.2	5709.5	5638.6
35°	8181.7	8038.2	8013.4	7900.1	7517.6	7087.2	6617.9	6201.8	5775.0	5426.1	5357.0
37.5°	7992.2	7871.8	7834.6	7723.0	7342.2	6878.3	6382.4	5932.6	5493.4	5118.0	5075.5
40°	7753.1	7639.8	7611.4	7512.3	7138.6	6646.3	6127.4	5654.6	5203.0	4854.1	4793.9
42.5°	7480.4	7374.1	7358.2	7255.5	6887.1	6389.5	5851.1	5365.9	4900.1	4563.7	4503.5
45°	7170.5	7067.8	7064.2	6966.8	6612.6	6104.4	5560.7	5073.7	4604.4	4255.5	4223.7
47.5°	6828.7	6736.6	6736.6	6646.3	6306.3	5790.9	5261.4	4769.1	4306.9	3998.7	3942.1
50°	6456.8	6370.0	6343.4	6299.2	5968.0	5449.1	4946.2	4471.6	4012.9	3718.9	3664.0
52.5°	6060.1	5985.7	6003.4	5922.0	5601.4	5093.2	4627.4	4136.9	3717.2	3449.8	3394.9
55°	5642.2	5535.9	5551.8	5521.7	5218.9	4726.6	4269.7	3860.6	3426.7	3175.3	3123.9
57.5°	5208.3	5070.2	5126.8	5109.1	4811.6	4351.2	3942.1	3547.2	3138.1	2906.1	2856.5
60°	4763.8	4631.0	4689.4	4673.5	4393.7	3975.7	3603.8	3237.2	2851.2	2640.4	2590.9
62.5°	4306.9	4184.7	4237.8	4225.4	3968.6	3591.4	3267.4	2930.9	2562.5	2373.0	2327.0
65°	3846.4	3729.6	3777.4	3768.5	3531.2	3244.3	2922.0	2613.9	2272.1	2107.4	2061.4
67.5°	3375.4	3267.4	3311.6	3311.6	3093.8	2819.3	2574.9	2293.3	1987.0	1845.3	1802.8
70°	2907.9	2806.9	2845.9	2842.3	2658.2	2435.0	2224.3	1972.8	1698.3	1581.4	1546.0
72.5°	2436.8	2348.2	2383.7	2380.1	2226.0	2082.6	1873.6	1655.8	1416.7	1322.9	1291.0
75°	1979.9	1896.7	1930.3	1926.8	1801.0	1666.4	1526.5	1345.9	1140.5	1074.9	1043.1
77.5°	1544.2	1459.2	1487.6	1487.6	1395.5	1298.1	1186.5	1046.6	901.4	830.6	807.5
80°	1126.3	1085.6	1071.4	1073.2	1011.2	947.4	890.8	756.2	649.9	602.1	586.2
82.5°	740.2	706.6	692.4	696.0	660.6	621.6	586.2	492.3	421.5	393.1	384.3
85°	393.1	368.4	356.0	364.8	357.7	336.5	318.8	255.0	210.7	200.1	194.8
87.5°	124.0	108.0	99.2	131.0	111.6	99.2	95.6	76.1	58.4	58.4	56.7
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°	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9
2.5°	7581.3	7581.3	7512.3	7496.3	7489.2	7498.1	7429.0	7416.6	7515.8	7482.1	7406.0
5°	7521.1	7517.6	7420.2	7402.5	7402.5	7391.8	7313.9	7296.2	7395.4	7367.0	7283.8
7.5°	7446.7	7436.1	7321.0	7308.6	7290.9	7283.8	7197.0	7184.6	7269.6	7251.9	7174.0
10°	7356.4	7345.8	7209.4	7200.6	7181.1	7166.9	7085.5	7076.6	7163.4	7135.0	7073.1
12.5°	7237.8	7218.3	7078.4	7069.5	7053.6	7048.3	6968.6	6965.0	7060.7	7032.3	6966.8
15°	7081.9	7066.0	6910.1	6913.7	6915.5	6915.5	6851.7	6848.2	6942.0	6929.6	6858.8
17.5°	6910.1	6888.9	6740.1	6750.8	6763.2	6777.3	6727.7	6736.6	6835.8	6819.8	6756.1
20°	6715.3	6694.1	6548.9	6579.0	6605.5	6633.9	6602.0	6626.8	6718.9	6711.8	6664.0
22.5°	6497.5	6476.3	6341.7	6387.7	6432.0	6485.1	6471.0	6499.3	6596.7	6594.9	6552.4
25°	6231.9	6237.2	6118.5	6175.2	6249.6	6324.0	6329.3	6375.3	6483.3	6472.7	6433.8
27.5°	5983.9	5991.0	5865.3	5960.9	6060.1	6155.7	6178.7	6242.5	6352.3	6343.4	6309.8
30°	5723.6	5732.5	5610.3	5741.3	5861.8	5978.6	6028.2	6115.0	6226.6	6226.6	6191.1
32.5°	5452.7	5468.6	5341.1	5516.4	5656.3	5792.7	5879.5	5969.8	6097.3	6093.7	6063.6
35°	5174.6	5192.3	5075.5	5298.6	5438.5	5605.0	5713.0	5833.4	5946.8	5948.5	5925.5
37.5°	4891.3	4912.5	4806.3	5050.7	5210.1	5406.6	5544.8	5665.2	5790.9	5798.0	5776.7
40°	4609.7	4632.7	4540.6	4776.2	4978.1	5197.7	5357.0	5498.7	5636.8	5640.4	5626.2
42.5°	4328.1	4352.9	4283.9	4514.1	4742.5	4978.1	5165.8	5326.9	5468.6	5477.5	5461.5
45°	4053.6	4074.9	4025.3	4276.8	4496.4	4753.2	4969.2	5151.6	5295.1	5307.5	5302.1
47.5°	3780.9	3800.4	3756.1	3986.3	4239.6	4512.3	4762.0	4963.9	5116.2	5130.4	5126.8
50°	3513.5	3529.4	3481.6	3722.5	3974.0	4264.4	4524.7	4758.5	4928.5	4942.6	4940.9
52.5°	3247.9	3263.8	3223.1	3476.3	3704.8	4011.1	4294.5	4547.7	4716.0	4737.2	4740.8
55°	2991.1	2998.2	2966.3	3208.9	3430.3	3750.8	4076.7	4322.8	4491.1	4508.8	4519.4
57.5°	2734.3	2736.1	2709.5	2941.5	3154.0	3481.6	3823.4	4082.0	4241.4	4259.1	4275.0
60°	2479.3	2477.5	2447.4	2672.3	2876.0	3200.1	3556.0	3812.8	3966.9	3982.8	4004.1
62.5°	2226.0	2220.7	2194.2	2401.4	2592.6	2913.2	3270.9	3518.8	3665.8	3676.4	3704.8
65°	1974.6	1969.3	1944.5	2135.7	2309.3	2615.7	2966.3	3201.8	3334.6	3348.8	3343.5
67.5°	1726.6	1716.0	1696.5	1868.3	2025.9	2309.3	2645.8	2870.7	2980.5	2992.9	3026.5
70°	1478.7	1466.3	1422.1	1604.5	1742.6	1995.8	2309.3	2509.4	2601.5	2613.9	2608.6
72.5°	1234.3	1221.9	1174.1	1342.4	1459.2	1680.6	1960.4	2126.9	2206.6	2217.2	2217.2
75°	997.0	989.9	959.8	1087.3	1184.7	1365.4	1602.7	1740.8	1802.8	1815.2	1811.7
77.5°	768.6	763.3	733.2	843.0	919.1	1053.7	1245.0	1353.0	1399.0	1413.2	1443.3
80°	550.8	549.0	501.2	609.2	642.8	756.2	896.1	979.3	1004.1	1023.6	1044.8
82.5°	352.4	354.2	306.4	398.5	412.6	485.2	572.0	623.4	641.1	657.0	673.0
85°	171.8	178.9	152.3	210.7	212.5	249.7	286.9	306.4	313.5	325.8	340.0
87.5°	44.3	51.4	28.3	60.2	53.1	69.1	79.7	85.0	83.2	92.1	97.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9
2.5°	7430.8	7487.5	7459.1	7551.2	7586.6	7530.0	7629.1	7630.9	7560.1	7643.3	7689.3
5°	7315.7	7374.1	7356.4	7452.0	7496.3	7446.7	7567.2	7590.2	7521.1	7615.0	7689.3
7.5°	7198.8	7267.9	7244.8	7342.2	7395.4	7356.4	7485.7	7522.9	7469.8	7572.5	7671.6
10°	7097.9	7156.3	7131.5	7234.2	7280.3	7248.4	7375.9	7445.0	7395.4	7521.1	7639.8
12.5°	6998.7	7046.5	7018.2	7103.2	7147.4	7106.7	7262.6	7326.3	7290.9	7421.9	7574.2
15°	6871.2	6924.3	6885.3	6961.5	6995.1	6959.7	7087.2	7197.0	7152.8	7296.2	7464.4
17.5°	6773.8	6803.9	6750.8	6811.0	6830.4	6782.6	6911.9	7019.9	6988.1	7143.9	7338.7
20°	6665.8	6690.5	6616.2	6649.8	6648.0	6587.8	6706.5	6812.7	6791.5	6963.3	7184.6
22.5°	6545.3	6557.7	6471.0	6478.0	6474.5	6375.3	6481.6	6589.6	6580.7	6754.3	7002.2
25°	6417.8	6419.6	6308.0	6304.5	6265.5	6148.6	6242.5	6364.7	6338.1	6525.8	6786.2
27.5°	6292.1	6274.4	6139.8	6107.9	6045.9	5906.0	5989.3	6099.1	6083.1	6267.3	6556.0
30°	6157.5	6134.5	5969.8	5911.3	5821.0	5659.9	5728.9	5831.6	5840.5	6001.7	6304.5
32.5°	6030.0	5971.6	5789.1	5704.1	5590.8	5403.1	5440.3	5544.8	5558.9	5721.9	6033.5
35°	5865.3	5826.3	5601.4	5456.2	5344.6	5139.2	5178.2	5250.8	5272.0	5431.4	5748.4
37.5°	5709.5	5647.5	5408.4	5231.3	5087.9	4871.8	4882.4	4956.8	4978.1	5139.2	5452.7
40°	5548.3	5459.8	5203.0	4995.8	4831.1	4604.4	4592.0	4669.9	4685.9	4843.5	5126.8
42.5°	5376.5	5270.3	4981.6	4754.9	4565.4	4335.2	4310.4	4377.7	4395.4	4549.5	4827.5
45°	5203.0	5075.5	4754.9	4507.0	4299.8	4064.3	4039.5	4090.8	4117.4	4262.6	4530.0
47.5°	5018.8	4870.0	4521.2	4244.9	4030.6	3795.1	3765.0	3816.3	3837.6	3981.0	4234.3
50°	4825.8	4645.1	4280.3	3975.7	3763.2	3531.2	3486.9	3547.2	3566.6	3701.2	3949.2
52.5°	4613.3	4413.1	4023.5	3704.8	3492.3	3270.9	3217.8	3276.2	3299.2	3430.3	3658.7
55°	4388.3	4172.3	3765.0	3455.1	3224.8	3008.8	2964.5	2987.5	3037.1	3161.1	3373.6
57.5°	4135.1	3920.8	3492.3	3177.0	2955.7	2748.5	2711.3	2732.5	2778.6	2899.0	3090.3
60°	3865.9	3639.2	3214.2	2899.0	2684.7	2488.1	2454.5	2474.0	2523.6	2633.4	2810.5
62.5°	3600.3	3345.3	2927.3	2613.9	2419.1	2236.7	2227.8	2220.7	2266.8	2373.0	2528.9
65°	3278.0	3033.6	2628.0	2330.5	2153.4	1988.7	1953.3	1969.3	2013.5	2110.9	2273.9
67.5°	2932.6	2711.3	2321.7	2047.2	1889.6	1742.6	1712.5	1719.6	1765.6	1850.6	1992.3
70°	2566.1	2371.3	2008.2	1762.1	1629.2	1491.1	1471.6	1473.4	1517.7	1592.1	1716.0
72.5°	2181.8	2006.5	1691.2	1480.5	1370.7	1271.5	1253.8	1232.6	1273.3	1337.0	1443.3
75°	1790.4	1636.3	1376.0	1204.2	1117.5	1034.2	1018.3	997.0	1037.8	1092.7	1175.9
77.5°	1395.5	1271.5	1069.6	936.8	869.5	807.5	793.4	770.4	811.1	851.8	917.3
80°	1009.4	919.1	798.7	658.8	635.8	595.0	580.9	556.1	595.0	621.6	671.2
82.5°	651.7	591.5	522.4	425.0	421.5	391.4	384.3	356.0	391.4	407.3	444.5
85°	329.4	301.1	283.3	216.1	223.1	203.7	201.9	171.8	200.1	207.2	228.4
87.5°	93.9	99.2	88.5	53.1	67.3	63.8	63.8	46.0	63.8	63.8	72.6
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: P838087

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5HI-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9	7591.9
2.5°	7599.0	7629.1	7636.2	7634.4	7653.9	7760.2	7724.8	7760.2
5°	7616.7	7684.0	7701.7	7726.5	7758.4	7878.8	7839.9	7882.4
7.5°	7627.4	7728.3	7767.3	7815.1	7866.4	8001.0	7969.2	8011.7
10°	7627.4	7758.4	7815.1	7894.8	7963.8	8119.7	8089.6	8139.2
12.5°	7595.5	7763.7	7843.4	7955.0	8043.5	8211.8	8199.4	8234.8
15°	7530.0	7737.2	7847.0	7990.4	8100.2	8287.9	8282.6	8325.1
17.5°	7441.4	7691.1	7823.9	8004.6	8142.7	8353.4	8365.8	8388.9
20°	7329.8	7604.3	7777.9	7999.3	8172.8	8404.8	8420.7	8452.6
22.5°	7182.9	7499.9	7708.8	7976.2	8176.3	8426.0	8454.4	8484.5
25°	7009.3	7374.1	7618.5	7932.0	8158.6	8424.3	8463.2	8489.8
27.5°	6811.0	7211.2	7503.4	7861.1	8109.1	8395.9	8443.8	8475.6
30°	6580.7	7037.6	7372.4	7769.0	8041.8	8342.8	8394.2	8426.0
32.5°	6343.4	6846.4	7216.5	7650.4	7944.4	8257.8	8302.1	8326.9
35°	6084.9	6614.4	7028.8	7498.1	7818.6	8121.5	8155.1	8181.7
37.5°	5803.3	6362.9	6814.5	7326.3	7641.5	7932.0	7962.1	7992.2
40°	5512.9	6099.1	6573.7	7115.6	7430.8	7700.0	7731.8	7753.1
42.5°	5220.7	5806.9	6316.9	6867.6	7181.1	7439.6	7459.1	7480.4
45°	4924.9	5504.0	6028.2	6593.1	6903.1	7145.7	7152.8	7170.5
47.5°	4623.9	5190.6	5711.2	6279.7	6586.1	6807.4	6814.5	6828.7
50°	4321.1	4877.1	5373.0	5941.4	6240.7	6474.5	6442.6	6456.8
52.5°	4023.5	4547.7	5054.2	5576.6	5872.4	6079.6	6088.4	6060.1
55°	3731.3	4225.4	4691.2	5194.1	5475.7	5636.8	5631.5	5642.2
57.5°	3435.6	3899.6	4326.4	4786.8	5061.3	5213.6	5245.5	5208.3
60°	3134.5	3570.2	3952.7	4368.9	4634.5	4762.0	4799.2	4763.8
62.5°	2835.2	3235.5	3582.6	3945.6	4191.8	4349.4	4345.8	4306.9
65°	2536.0	2899.0	3208.9	3517.1	3731.3	3888.9	3881.9	3846.4
67.5°	2259.7	2559.0	2837.0	3086.7	3272.7	3380.7	3417.9	3375.4
70°	1955.1	2213.7	2458.0	2658.2	2812.2	2909.6	2945.0	2907.9
72.5°	1650.5	1870.1	2041.9	2234.9	2353.6	2435.0	2472.2	2436.8
75°	1349.4	1530.1	1670.0	1820.5	1903.7	1972.8	2015.3	1979.9
77.5°	1057.2	1197.1	1308.7	1418.5	1514.1	1530.1	1567.3	1544.2
80°	779.2	880.1	961.6	1034.2	1103.3	1110.4	1140.5	1126.3
82.5°	518.9	586.2	607.4	683.6	727.8	720.8	750.9	740.2
85°	274.5	315.2	352.4	375.4	400.2	377.2	403.8	393.1
87.5°	92.1	97.4	85.0	120.4	132.8	113.3	129.3	124.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)