

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: P838108

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-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: P838108
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-LD4-6HI-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

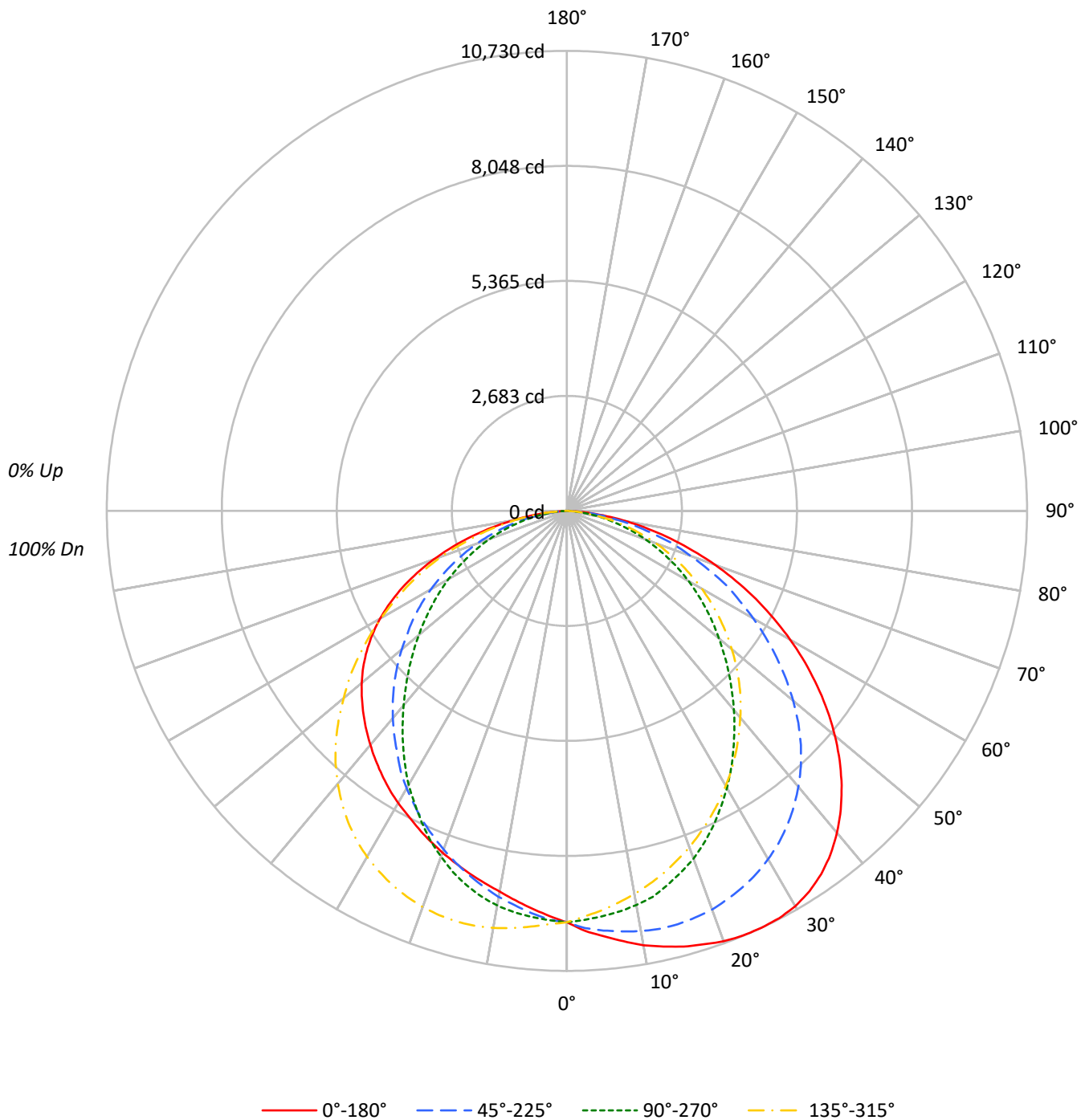
Lumens per Lamp: N/A
Luminaire Lumens: 28149.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12910	12910	12910	12910
5°	13455	12817	12575	12838
10°	14054	12751	12320	12769
15°	14656	12589	12199	12592
20°	15296	12360	12146	12290
25°	15929	12015	12144	11892
30°	16545	11597	12226	11468
35°	16984	11120	12348	10944
40°	17210	10641	12520	10402
45°	17243	10157	12763	9901
50°	17081	9693	13075	9435
55°	16727	9261	13367	9004
60°	16201	8811	13545	8582
65°	15477	8294	13474	8102
70°	14457	7687	12996	7546
75°	13008	6853	11926	6818
80°	11029	5740	10023	5827
85°	7671	3801	6357	3904

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.0	3.2
10°-20°	2637.9	9.4
20°-30°	4042.7	14.4
30°-40°	4915.7	17.5
40°-50°	5110.2	18.2
50°-60°	4616.0	16.4
60°-70°	3509.4	12.5
70°-80°	1956.5	7.0
80°-90°	450.4	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°	7591.6	27.0
0°-40°	12507.4	44.4
0°-60°	22233.6	79.0
0°-90°	28149.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28149.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9595	9595	9595	9595	9595	
5°	9962	9490	9311	9505	9962	961
15°	10521	9038	8758	9040	10521	2983
25°	10730	8093	8180	8010	10730	4956
35°	10340	6770	7518	6663	10340	6458
45°	9062	5338	6708	5204	9062	6977
55°	7131	3948	5698	3838	7131	6365
65°	4861	2605	4232	2545	4861	4804
75°	2502	1318	2294	1312	2502	2658
85°	497	246	412	253	497	626
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°	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8
2.5°	9807.4	9664.2	9666.4	9791.8	9695.5	9742.5	9608.2	9659.7	9644.0	9655.2	9545.6
5°	9961.9	9807.4	9805.2	9912.6	9805.2	9825.3	9655.2	9688.8	9639.6	9608.2	9489.6
7.5°	10125.2	9970.8	9955.1	10049.1	9908.1	9892.5	9704.5	9704.5	9614.9	9536.6	9424.7
10°	10286.4	10127.5	10107.3	10179.0	10004.4	9952.9	9724.6	9688.8	9570.2	9453.8	9332.9
12.5°	10407.2	10246.1	10230.4	10275.2	10078.2	9984.2	9724.6	9655.2	9480.7	9317.3	9223.3
15°	10521.4	10355.8	10313.2	10335.6	10109.6	9984.2	9693.3	9585.8	9362.0	9147.2	9037.5
17.5°	10602.0	10443.0	10400.5	10398.3	10125.2	9946.2	9626.1	9478.4	9209.8	8950.2	8840.6
20°	10682.5	10523.6	10469.9	10429.6	10120.8	9894.7	9527.7	9328.5	9015.1	8724.2	8632.4
22.5°	10722.8	10559.4	10501.2	10440.8	10091.7	9800.7	9406.8	9153.9	8795.8	8448.9	8372.8
25°	10729.5	10561.7	10499.0	10411.7	10033.5	9688.8	9250.1	8943.5	8542.9	8157.9	8093.0
27.5°	10711.6	10528.1	10465.4	10360.2	9946.2	9552.3	9064.4	8704.0	8274.3	7849.1	7779.7
30°	10649.0	10463.2	10402.8	10266.2	9823.1	9384.4	8860.7	8437.7	7976.6	7524.5	7464.1
32.5°	10523.6	10342.3	10293.1	10156.6	9688.8	9189.7	8623.5	8151.2	7647.6	7215.7	7126.2
35°	10340.1	10158.8	10127.5	9984.2	9500.8	8956.9	8363.8	7837.9	7298.5	6857.6	6770.3
37.5°	10100.6	9948.4	9901.4	9760.4	9279.2	8692.8	8066.2	7497.7	6942.6	6468.2	6414.4
40°	9798.5	9655.2	9619.4	9494.1	9021.8	8399.6	7743.9	7146.3	6575.6	6134.7	6058.6
42.5°	9453.8	9319.5	9299.4	9169.6	8704.0	8075.1	7394.7	6781.5	6192.9	5767.6	5691.5
45°	9062.1	8932.3	8927.8	8804.7	8357.1	7714.8	7027.7	6412.2	5819.1	5378.2	5337.9
47.5°	8630.2	8513.8	8513.8	8399.6	7969.9	7318.6	6649.4	6027.2	5443.1	5053.7	4982.0
50°	8160.2	8050.5	8016.9	7961.0	7542.4	6886.7	6251.1	5651.2	5071.6	4700.0	4630.7
52.5°	7658.8	7564.8	7587.2	7484.3	7079.2	6436.8	5848.2	5228.2	4697.8	4359.8	4290.5
55°	7130.6	6996.3	7016.5	6978.4	6595.7	5973.5	5396.1	4879.1	4330.8	4012.9	3948.0
57.5°	6582.3	6407.7	6479.3	6457.0	6081.0	5499.1	4982.0	4482.9	3965.9	3672.7	3610.1
60°	6020.5	5852.7	5926.5	5906.4	5552.8	5024.6	4554.6	4091.3	3603.4	3337.0	3274.4
62.5°	5443.1	5288.7	5355.8	5340.1	5015.6	4538.9	4129.3	3704.1	3238.6	2999.1	2940.9
65°	4861.2	4713.5	4773.9	4762.7	4462.8	4100.2	3692.9	3303.5	2871.5	2663.4	2605.2
67.5°	4265.8	4129.3	4185.3	4185.3	3910.0	3563.1	3254.2	2898.4	2511.2	2332.1	2278.4
70°	3675.0	3547.4	3596.7	3592.2	3359.4	3077.4	2811.1	2493.3	2146.4	1998.6	1953.9
72.5°	3079.6	2967.7	3012.5	3008.0	2813.3	2632.0	2367.9	2092.6	1790.5	1671.9	1631.6
75°	2502.2	2397.0	2439.5	2435.1	2276.2	2106.1	1929.3	1701.0	1441.3	1358.5	1318.3
77.5°	1951.6	1844.2	1880.0	1880.0	1763.6	1640.5	1499.5	1322.7	1139.2	1049.7	1020.6
80°	1423.4	1372.0	1354.1	1356.3	1278.0	1197.4	1125.8	955.7	821.4	761.0	740.8
82.5°	935.5	893.0	875.1	879.6	834.8	785.6	740.8	622.2	532.7	496.9	485.7
85°	496.9	465.5	449.9	461.1	452.1	425.2	402.9	322.3	266.3	252.9	246.2
87.5°	156.7	136.5	125.3	165.6	141.0	125.3	120.9	96.2	73.9	73.9	71.6
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°	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8
2.5°	9581.4	9581.4	9494.1	9473.9	9465.0	9476.2	9388.9	9373.2	9498.6	9456.0	9359.8
5°	9505.3	9500.8	9377.7	9355.3	9355.3	9341.9	9243.4	9221.0	9346.4	9310.6	9205.4
7.5°	9411.3	9397.8	9252.4	9236.7	9214.3	9205.4	9095.7	9080.0	9187.5	9165.1	9066.6
10°	9297.1	9283.7	9111.4	9100.2	9075.6	9057.7	8954.7	8943.5	9053.2	9017.4	8939.0
12.5°	9147.2	9122.6	8945.7	8934.6	8914.4	8907.7	8807.0	8802.5	8923.4	8887.6	8804.7
15°	8950.2	8930.1	8733.1	8737.6	8739.8	8739.8	8659.3	8654.8	8773.4	8757.7	8668.2
17.5°	8733.1	8706.3	8518.3	8531.7	8547.4	8565.3	8502.6	8513.8	8639.1	8619.0	8538.4
20°	8486.9	8460.1	8276.6	8314.6	8348.2	8384.0	8343.7	8375.0	8491.4	8482.5	8422.0
22.5°	8211.6	8184.8	8014.7	8072.9	8128.8	8196.0	8178.1	8213.9	8337.0	8334.7	8281.0
25°	7875.9	7882.6	7732.7	7804.3	7898.3	7992.3	7999.0	8057.2	8193.7	8180.3	8131.1
27.5°	7562.6	7571.5	7412.6	7533.5	7658.8	7779.7	7808.8	7889.4	8028.1	8016.9	7974.4
30°	7233.6	7244.8	7090.4	7256.0	7408.2	7555.9	7618.5	7728.2	7869.2	7869.2	7824.5
32.5°	6891.2	6911.3	6750.2	6971.7	7148.5	7320.9	7430.5	7544.7	7705.8	7701.4	7663.3
35°	6539.8	6562.2	6414.4	6696.4	6873.3	7083.6	7220.2	7372.4	7515.6	7517.8	7488.7
37.5°	6181.7	6208.5	6074.2	6383.1	6584.5	6833.0	7007.5	7159.7	7318.6	7327.6	7300.7
40°	5825.8	5854.9	5738.5	6036.2	6291.3	6568.9	6770.3	6949.3	7123.9	7128.4	7110.5
42.5°	5470.0	5501.3	5414.0	5705.0	5993.7	6291.3	6528.6	6732.3	6911.3	6922.5	6902.3
45°	5123.0	5149.9	5087.2	5405.0	5682.6	6007.1	6280.2	6510.7	6692.0	6707.6	6700.9
47.5°	4778.4	4803.0	4747.0	5038.0	5358.0	5702.7	6018.3	6273.4	6465.9	6483.8	6479.3
50°	4440.4	4460.6	4400.1	4704.5	5022.3	5389.4	5718.4	6013.8	6228.7	6246.6	6244.3
52.5°	4104.7	4124.8	4073.4	4393.4	4682.1	5069.3	5427.4	5747.5	5960.1	5987.0	5991.4
55°	3780.2	3789.1	3748.8	4055.5	4335.2	4740.3	5152.1	5463.2	5675.9	5698.2	5711.7
57.5°	3455.7	3457.9	3424.3	3717.5	3986.1	4400.1	4832.1	5158.9	5360.3	5382.7	5402.8
60°	3133.4	3131.1	3093.1	3377.3	3634.7	4044.3	4494.1	4818.7	5013.4	5033.5	5060.4
62.5°	2813.3	2806.6	2773.0	3034.9	3276.6	3681.7	4133.8	4447.1	4632.9	4646.3	4682.1
65°	2495.5	2488.8	2457.5	2699.2	2918.5	3305.7	3748.8	4046.5	4214.4	4232.3	4225.6
67.5°	2182.2	2168.7	2144.1	2361.2	2560.4	2918.5	3343.7	3628.0	3766.7	3782.4	3824.9
70°	1868.8	1853.2	1797.2	2027.7	2202.3	2522.4	2918.5	3171.4	3287.8	3303.5	3296.7
72.5°	1560.0	1544.3	1483.9	1696.5	1844.2	2124.0	2477.6	2688.0	2788.7	2802.1	2802.1
75°	1260.1	1251.1	1213.1	1374.2	1497.3	1725.6	2025.5	2200.1	2278.4	2294.1	2289.6
77.5°	971.3	964.6	926.6	1065.3	1161.6	1331.7	1573.4	1709.9	1768.1	1786.0	1824.1
80°	696.1	693.8	633.4	769.9	812.4	955.7	1132.5	1237.7	1269.0	1293.6	1320.5
82.5°	445.4	447.6	387.2	503.6	521.5	613.2	722.9	787.8	810.2	830.3	850.5
85°	217.1	226.0	192.5	266.3	268.6	315.6	362.6	387.2	396.1	411.8	429.7
87.5°	56.0	64.9	35.8	76.1	67.1	87.3	100.7	107.4	105.2	116.4	123.1
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°	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8
2.5°	9391.1	9462.8	9426.9	9543.3	9588.1	9516.5	9641.8	9644.0	9554.5	9659.7	9717.9
5°	9245.7	9319.5	9297.1	9418.0	9473.9	9411.3	9563.5	9592.6	9505.3	9623.9	9717.9
7.5°	9097.9	9185.2	9156.1	9279.2	9346.4	9297.1	9460.5	9507.5	9440.4	9570.2	9695.5
10°	8970.4	9044.2	9012.9	9142.7	9200.9	9160.6	9321.8	9409.0	9346.4	9505.3	9655.2
12.5°	8845.0	8905.5	8869.7	8977.1	9033.0	8981.6	9178.5	9259.1	9214.3	9379.9	9572.4
15°	8683.9	8751.0	8701.8	8798.0	8840.6	8795.8	8956.9	9095.7	9039.7	9221.0	9433.7
17.5°	8560.8	8598.8	8531.7	8607.8	8632.4	8572.0	8735.4	8871.9	8831.6	9028.6	9274.8
20°	8424.3	8455.6	8361.6	8404.1	8401.9	8325.8	8475.7	8610.0	8583.2	8800.3	9080.0
22.5°	8272.1	8287.7	8178.1	8187.0	8182.6	8057.2	8191.5	8328.0	8316.8	8536.2	8849.5
25°	8110.9	8113.2	7972.2	7967.7	7918.5	7770.7	7889.4	8043.8	8010.2	8247.5	8576.5
27.5°	7952.0	7929.6	7759.5	7719.3	7640.9	7464.1	7569.3	7708.1	7687.9	7920.7	8285.5
30°	7781.9	7752.8	7544.7	7470.8	7356.7	7153.0	7240.3	7370.1	7381.3	7585.0	7967.7
32.5°	7620.8	7546.9	7316.4	7209.0	7065.7	6828.5	6875.5	7007.5	7025.4	7231.4	7625.3
35°	7412.6	7363.4	7079.2	6895.6	6754.6	6495.0	6544.3	6636.0	6662.9	6864.3	7264.9
37.5°	7215.7	7137.4	6835.2	6611.4	6430.1	6157.1	6170.5	6264.5	6291.3	6495.0	6891.2
40°	7012.0	6900.1	6575.6	6313.7	6105.6	5819.1	5803.4	5901.9	5922.1	6121.2	6479.3
42.5°	6794.9	6660.6	6295.8	6009.3	5769.9	5478.9	5447.6	5532.6	5555.0	5749.7	6101.1
45°	6575.6	6414.4	6009.3	5696.0	5434.1	5136.5	5105.1	5170.0	5203.6	5387.1	5725.1
47.5°	6342.8	6154.8	5713.9	5364.8	5094.0	4796.3	4758.2	4823.1	4850.0	5031.3	5351.3
50°	6098.9	5870.6	5409.5	5024.6	4756.0	4462.8	4406.8	4482.9	4507.6	4677.7	4991.0
52.5°	5830.3	5577.4	5085.0	4682.1	4413.6	4133.8	4066.7	4140.5	4169.6	4335.2	4623.9
55°	5546.1	5273.0	4758.2	4366.6	4075.6	3802.6	3746.6	3775.7	3838.4	3995.0	4263.6
57.5°	5226.0	4955.2	4413.6	4015.2	3735.4	3473.6	3426.6	3453.4	3511.6	3663.8	3905.5
60°	4885.8	4599.3	4062.2	3663.8	3393.0	3144.6	3102.0	3126.6	3189.3	3328.1	3551.9
62.5°	4550.1	4227.8	3699.6	3303.5	3057.3	2826.7	2815.5	2806.6	2864.8	2999.1	3196.0
65°	4142.8	3833.9	3321.4	2945.4	2721.5	2513.4	2468.6	2488.8	2544.7	2667.8	2873.7
67.5°	3706.3	3426.6	2934.2	2587.3	2388.1	2202.3	2164.3	2173.2	2231.4	2338.8	2517.9
70°	3243.0	2996.8	2538.0	2226.9	2059.1	1884.5	1859.9	1862.1	1918.1	2012.1	2168.7
72.5°	2757.4	2535.8	2137.4	1871.1	1732.3	1607.0	1584.6	1557.7	1609.2	1689.8	1824.1
75°	2262.7	2068.0	1739.0	1521.9	1412.3	1307.1	1286.9	1260.1	1311.5	1380.9	1486.1
77.5°	1763.6	1607.0	1351.8	1184.0	1098.9	1020.6	1002.7	973.6	1025.1	1076.5	1159.3
80°	1275.7	1161.6	1009.4	832.6	803.5	752.0	734.1	702.8	752.0	785.6	848.2
82.5°	823.6	747.5	660.2	537.1	532.7	494.6	485.7	449.9	494.6	514.8	561.8
85°	416.3	380.5	358.1	273.1	282.0	257.4	255.1	217.1	252.9	261.9	288.7
87.5°	118.6	125.3	111.9	67.1	85.0	80.6	80.6	58.2	80.6	80.6	91.8
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: P838108

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8	9594.8
2.5°	9603.8	9641.8	9650.8	9648.5	9673.1	9807.4	9762.7	9807.4
5°	9626.1	9711.2	9733.6	9764.9	9805.2	9957.4	9908.1	9961.9
7.5°	9639.6	9767.1	9816.4	9876.8	9941.7	10111.8	10071.5	10125.2
10°	9639.6	9805.2	9876.8	9977.5	10064.8	10261.8	10223.7	10286.4
12.5°	9599.3	9811.9	9912.6	10053.6	10165.5	10378.1	10362.5	10407.2
15°	9516.5	9778.3	9917.1	10098.4	10237.1	10474.4	10467.7	10521.4
17.5°	9404.6	9720.1	9888.0	10116.3	10290.9	10557.2	10572.9	10602.0
20°	9263.6	9610.5	9829.8	10109.6	10328.9	10622.1	10642.2	10682.5
22.5°	9077.8	9478.4	9742.5	10080.5	10333.4	10649.0	10684.8	10722.8
25°	8858.5	9319.5	9628.4	10024.5	10311.0	10646.7	10696.0	10729.5
27.5°	8607.8	9113.6	9482.9	9935.0	10248.3	10610.9	10671.3	10711.6
30°	8316.8	8894.3	9317.3	9818.6	10163.3	10543.8	10608.7	10649.0
32.5°	8016.9	8652.6	9120.3	9668.7	10040.2	10436.3	10492.3	10523.6
35°	7690.2	8359.4	8883.1	9476.2	9881.3	10264.0	10306.5	10340.1
37.5°	7334.3	8041.5	8612.3	9259.1	9657.5	10024.5	10062.6	10100.6
40°	6967.3	7708.1	8307.9	8992.7	9391.1	9731.3	9771.6	9798.5
42.5°	6598.0	7338.8	7983.4	8679.4	9075.6	9402.3	9426.9	9453.8
45°	6224.2	6956.1	7618.5	8332.5	8724.2	9030.8	9039.7	9062.1
47.5°	5843.7	6559.9	7217.9	7936.4	8323.6	8603.3	8612.3	8630.2
50°	5461.0	6163.8	6790.4	7508.9	7887.1	8182.6	8142.3	8160.2
52.5°	5085.0	5747.5	6387.6	7047.8	7421.6	7683.5	7694.6	7658.8
55°	4715.7	5340.1	5928.8	6564.4	6920.3	7123.9	7117.2	7130.6
57.5°	4341.9	4928.3	5467.7	6049.6	6396.5	6589.0	6629.3	6582.3
60°	3961.5	4512.0	4995.5	5521.4	5857.1	6018.3	6065.3	6020.5
62.5°	3583.2	4089.0	4527.7	4986.5	5297.6	5496.8	5492.3	5443.1
65°	3205.0	3663.8	4055.5	4444.9	4715.7	4914.9	4905.9	4861.2
67.5°	2855.8	3234.1	3585.5	3901.0	4136.0	4272.6	4319.6	4265.8
70°	2470.9	2797.6	3106.5	3359.4	3554.1	3677.2	3722.0	3675.0
72.5°	2085.9	2363.5	2580.5	2824.5	2974.5	3077.4	3124.4	3079.6
75°	1705.4	1933.7	2110.5	2300.8	2406.0	2493.3	2547.0	2502.2
77.5°	1336.2	1513.0	1654.0	1792.7	1913.6	1933.7	1980.7	1951.6
80°	984.8	1112.3	1215.3	1307.1	1394.3	1403.3	1441.3	1423.4
82.5°	655.8	740.8	767.7	863.9	919.9	910.9	949.0	935.5
85°	346.9	398.4	445.4	474.5	505.8	476.7	510.3	496.9
87.5°	116.4	123.1	107.4	152.2	167.9	143.2	163.4	156.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)