

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: P838125

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838125
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-LD4-6STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

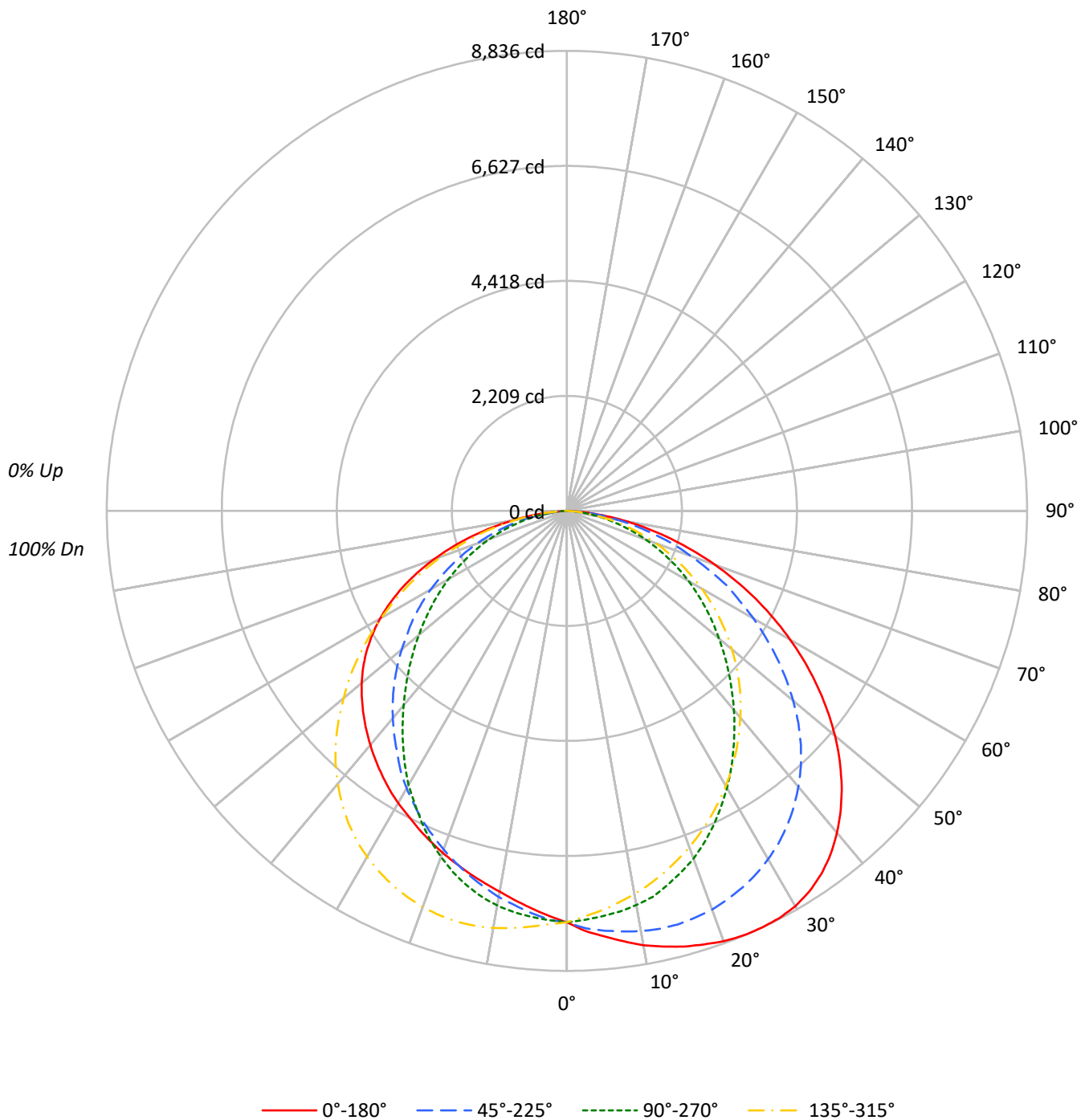
Lumens per Lamp: N/A
Luminaire Lumens: 23182.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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

TEST NUMBER: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

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°	10632	10632	10632	10632
5°	11081	10555	10356	10573
10°	11574	10501	10146	10516
15°	12070	10367	10046	10370
20°	12597	10179	10002	10121
25°	13118	9895	10001	9793
30°	13625	9550	10069	9444
35°	13987	9158	10169	9013
40°	14173	8764	10311	8566
45°	14201	8365	10511	8154
50°	14067	7982	10768	7770
55°	13775	7627	11008	7415
60°	13342	7256	11155	7068
65°	12746	6831	11096	6672
70°	11906	6330	10702	6214
75°	10713	5644	9822	5615
80°	9083	4727	8255	4799
85°	6317	3129	5235	3216

TEST NUMBER: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.2	3.2
10°-20°	2172.4	9.4
20°-30°	3329.4	14.4
30°-40°	4048.3	17.5
40°-50°	4208.4	18.2
50°-60°	3801.5	16.4
60°-70°	2890.1	12.5
70°-80°	1611.2	7.0
80°-90°	371.0	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°	6252.0	27.0
0°-40°	10300.3	44.4
0°-60°	18310.2	79.0
0°-90°	23182.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23182.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7902	7902	7902	7902	7902	
5°	8204	7815	7668	7828	8204	791
15°	8665	7443	7212	7445	8665	2457
25°	8836	6665	6737	6597	8836	4081
35°	8516	5576	6191	5487	8516	5319
45°	7463	4396	5524	4285	7463	5746
55°	5872	3251	4693	3161	5872	5242
65°	4003	2146	3485	2096	4003	3956
75°	2061	1086	1889	1080	2061	2189
85°	409	203	339	208	409	515
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7
2.5°	8076.8	7958.8	7960.7	8063.9	7984.6	8023.3	7912.7	7955.1	7942.2	7951.4	7861.1
5°	8204.0	8076.8	8074.9	8163.4	8074.9	8091.5	7951.4	7979.1	7938.5	7912.7	7815.0
7.5°	8338.5	8211.3	8198.4	8275.8	8159.7	8146.8	7992.0	7992.0	7918.3	7853.8	7761.6
10°	8471.2	8340.4	8323.8	8382.7	8239.0	8196.6	8008.6	7979.1	7881.4	7785.6	7686.0
12.5°	8570.7	8438.0	8425.1	8462.0	8299.8	8222.4	8008.6	7951.4	7807.7	7673.1	7595.7
15°	8664.7	8528.4	8493.3	8511.8	8325.6	8222.4	7982.8	7894.3	7710.0	7533.0	7442.7
17.5°	8731.1	8600.2	8565.2	8563.4	8338.5	8191.1	7927.5	7805.8	7584.7	7370.8	7280.5
20°	8797.5	8666.6	8622.4	8589.2	8334.8	8148.7	7846.4	7682.3	7424.3	7184.7	7109.1
22.5°	8830.6	8696.1	8648.2	8598.4	8310.9	8071.2	7746.9	7538.6	7243.7	6958.0	6895.3
25°	8836.2	8697.9	8646.3	8574.4	8262.9	7979.1	7617.8	7365.3	7035.4	6718.4	6664.9
27.5°	8821.4	8670.3	8618.7	8532.0	8191.1	7866.7	7464.8	7168.1	6814.2	6464.0	6406.9
30°	8769.8	8616.8	8567.1	8454.6	8089.7	7728.4	7297.1	6948.8	6569.1	6196.7	6147.0
32.5°	8666.6	8517.3	8476.7	8364.3	7979.1	7568.1	7101.7	6712.8	6298.1	5942.4	5868.7
35°	8515.5	8366.2	8340.4	8222.4	7824.3	7376.4	6887.9	6454.8	6010.6	5647.5	5575.6
37.5°	8318.2	8192.9	8154.2	8038.1	7641.8	7158.9	6642.8	6174.6	5717.5	5326.8	5282.5
40°	8069.4	7951.4	7922.0	7818.7	7429.8	6917.4	6377.4	5885.2	5415.2	5052.1	4989.5
42.5°	7785.6	7675.0	7658.4	7551.5	7168.1	6650.2	6089.8	5584.8	5100.1	4749.9	4687.2
45°	7463.0	7356.1	7352.4	7251.0	6882.4	6353.4	5787.6	5280.7	4792.2	4429.1	4396.0
47.5°	7107.3	7011.4	7011.4	6917.4	6563.5	6027.2	5476.1	4963.7	4482.6	4161.9	4102.9
50°	6720.2	6629.9	6602.2	6556.2	6211.5	5671.4	5148.0	4654.0	4176.6	3870.7	3813.5
52.5°	6307.3	6229.9	6248.4	6163.6	5830.0	5301.0	4816.2	4305.6	3868.8	3590.5	3533.4
55°	5872.3	5761.8	5778.3	5747.0	5431.8	4919.4	4443.9	4018.1	3566.5	3304.8	3251.4
57.5°	5420.8	5277.0	5336.0	5317.6	5007.9	4528.7	4102.9	3691.9	3266.1	3024.6	2973.0
60°	4958.1	4819.9	4880.7	4864.1	4572.9	4137.9	3750.9	3369.3	2967.5	2748.2	2696.6
62.5°	4482.6	4355.4	4410.7	4397.8	4130.5	3738.0	3400.7	3050.4	2667.1	2469.9	2421.9
65°	4003.4	3881.7	3931.5	3922.3	3675.3	3376.7	3041.2	2720.5	2364.8	2193.4	2145.5
67.5°	3513.1	3400.7	3446.7	3446.7	3220.0	2934.3	2680.0	2386.9	2068.0	1920.6	1876.3
70°	3026.5	2921.4	2962.0	2958.3	2766.6	2534.4	2315.0	2053.3	1767.6	1646.0	1609.1
72.5°	2536.2	2444.0	2480.9	2477.2	2316.9	2167.6	1950.1	1723.4	1474.5	1376.8	1343.7
75°	2060.7	1974.0	2009.1	2005.4	1874.5	1734.4	1588.8	1400.8	1187.0	1118.8	1085.6
77.5°	1607.2	1518.8	1548.3	1548.3	1452.4	1351.0	1234.9	1089.3	938.2	864.4	840.5
80°	1172.3	1129.9	1115.1	1117.0	1052.5	986.1	927.1	787.0	676.4	626.7	610.1
82.5°	770.4	735.4	720.7	724.4	687.5	647.0	610.1	512.4	438.7	409.2	400.0
85°	409.2	383.4	370.5	379.7	372.3	350.2	331.8	265.4	219.3	208.3	202.7
87.5°	129.0	112.4	103.2	136.4	116.1	103.2	99.5	79.3	60.8	60.8	59.0
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: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7
2.5°	7890.6	7890.6	7818.7	7802.1	7794.8	7804.0	7732.1	7719.2	7822.4	7787.4	7708.1
5°	7828.0	7824.3	7722.9	7704.5	7704.5	7693.4	7612.3	7593.9	7697.1	7667.6	7581.0
7.5°	7750.5	7739.5	7619.7	7606.8	7588.3	7581.0	7490.6	7477.7	7566.2	7547.8	7466.7
10°	7656.5	7645.5	7503.6	7494.3	7474.1	7459.3	7374.5	7365.3	7455.6	7426.1	7361.6
12.5°	7533.0	7512.8	7367.2	7357.9	7341.4	7335.8	7252.9	7249.2	7348.7	7319.2	7251.0
15°	7370.8	7354.3	7192.1	7195.7	7197.6	7197.6	7131.2	7127.5	7225.2	7212.3	7138.6
17.5°	7192.1	7169.9	7015.1	7026.2	7039.1	7053.8	7002.2	7011.4	7114.6	7098.1	7031.7
20°	6989.3	6967.2	6816.0	6847.4	6875.0	6904.5	6871.3	6897.1	6993.0	6985.6	6935.9
22.5°	6762.6	6740.5	6600.4	6648.3	6694.4	6749.7	6734.9	6764.4	6865.8	6864.0	6819.7
25°	6486.1	6491.7	6368.2	6427.1	6504.6	6582.0	6587.5	6635.4	6747.9	6736.8	6696.2
27.5°	6228.1	6235.4	6104.6	6204.1	6307.3	6406.9	6430.8	6497.2	6611.5	6602.2	6567.2
30°	5957.1	5966.3	5839.2	5975.6	6100.9	6222.5	6274.2	6364.5	6480.6	6480.6	6443.7
32.5°	5675.1	5691.7	5559.0	5741.5	5887.1	6029.0	6119.3	6213.3	6346.0	6342.4	6311.0
35°	5385.7	5404.2	5282.5	5514.8	5660.4	5833.6	5946.1	6071.4	6189.4	6191.2	6167.3
37.5°	5090.8	5113.0	5002.4	5256.7	5422.6	5627.2	5771.0	5896.3	6027.2	6034.5	6012.4
40°	4797.8	4821.7	4725.9	4971.0	5181.2	5409.7	5575.6	5723.0	5866.8	5870.5	5855.8
42.5°	4504.7	4530.5	4458.6	4698.2	4936.0	5181.2	5376.5	5544.3	5691.7	5700.9	5684.3
45°	4219.0	4241.1	4189.5	4451.3	4679.8	4947.1	5171.9	5361.8	5511.1	5524.0	5518.5
47.5°	3935.2	3955.4	3909.4	4149.0	4412.6	4696.4	4956.3	5166.4	5324.9	5339.7	5336.0
50°	3656.9	3673.4	3623.7	3874.3	4136.1	4438.4	4709.3	4952.6	5129.5	5144.3	5142.4
52.5°	3380.4	3397.0	3354.6	3618.1	3855.9	4174.8	4469.7	4733.3	4908.4	4930.5	4934.2
55°	3113.1	3120.5	3087.3	3339.8	3570.2	3903.8	4243.0	4499.2	4674.3	4692.7	4703.8
57.5°	2845.9	2847.7	2820.1	3061.5	3282.7	3623.7	3979.4	4248.5	4414.4	4432.8	4449.4
60°	2580.4	2578.6	2547.3	2781.3	2993.3	3330.6	3701.1	3968.3	4128.7	4145.3	4167.4
62.5°	2316.9	2311.3	2283.7	2499.3	2698.4	3032.0	3404.3	3662.4	3815.4	3826.4	3855.9
65°	2055.1	2049.6	2023.8	2222.9	2403.5	2722.4	3087.3	3332.5	3470.7	3485.4	3479.9
67.5°	1797.1	1786.0	1765.8	1944.5	2108.6	2403.5	2753.7	2987.8	3102.1	3115.0	3150.0
70°	1539.0	1526.1	1480.1	1669.9	1813.7	2077.3	2403.5	2611.8	2707.6	2720.5	2715.0
72.5°	1284.7	1271.8	1222.0	1397.1	1518.8	1749.2	2040.4	2213.6	2296.6	2307.7	2307.7
75°	1037.7	1030.3	999.0	1131.7	1233.1	1421.1	1668.1	1811.8	1876.3	1889.3	1885.6
77.5°	799.9	794.4	763.1	877.3	956.6	1096.7	1295.7	1408.2	1456.1	1470.9	1502.2
80°	573.2	571.4	521.6	634.1	669.1	787.0	932.6	1019.3	1045.1	1065.4	1087.5
82.5°	366.8	368.6	318.9	414.7	429.5	505.0	595.3	648.8	667.2	683.8	700.4
85°	178.8	186.2	158.5	219.3	221.2	259.9	298.6	318.9	326.2	339.1	353.9
87.5°	46.1	53.5	29.5	62.7	55.3	71.9	82.9	88.5	86.6	95.8	101.4
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: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7
2.5°	7733.9	7792.9	7763.4	7859.3	7896.1	7837.2	7940.4	7942.2	7868.5	7955.1	8003.1
5°	7614.1	7675.0	7656.5	7756.1	7802.1	7750.5	7875.9	7899.8	7828.0	7925.6	8003.1
7.5°	7492.5	7564.4	7540.4	7641.8	7697.1	7656.5	7791.1	7829.8	7774.5	7881.4	7984.6
10°	7387.4	7448.3	7422.5	7529.4	7577.3	7544.1	7676.8	7748.7	7697.1	7828.0	7951.4
12.5°	7284.2	7334.0	7304.5	7393.0	7439.0	7396.6	7558.8	7625.2	7588.3	7724.7	7883.2
15°	7151.5	7206.8	7166.3	7245.5	7280.5	7243.7	7376.4	7490.6	7444.6	7593.9	7769.0
17.5°	7050.1	7081.5	7026.2	7088.8	7109.1	7059.3	7193.9	7306.3	7273.2	7435.4	7638.1
20°	6937.7	6963.5	6886.1	6921.1	6919.3	6856.6	6980.1	7090.7	7068.6	7247.4	7477.7
22.5°	6812.4	6825.3	6734.9	6742.3	6738.6	6635.4	6746.0	6858.4	6849.2	7029.9	7287.9
25°	6679.7	6681.5	6565.4	6561.7	6521.1	6399.5	6497.2	6624.4	6596.7	6792.1	7063.0
27.5°	6548.8	6530.4	6390.3	6357.1	6292.6	6147.0	6233.6	6347.9	6331.3	6523.0	6823.4
30°	6408.7	6384.7	6213.3	6152.5	6058.5	5890.8	5962.7	6069.6	6078.8	6246.5	6561.7
32.5°	6276.0	6215.2	6025.3	5936.9	5818.9	5623.5	5662.2	5771.0	5785.7	5955.3	6279.7
35°	6104.6	6064.0	5830.0	5678.8	5562.7	5348.9	5389.4	5465.0	5487.1	5653.0	5982.9
37.5°	5942.4	5877.9	5629.0	5444.7	5295.4	5070.6	5081.6	5159.0	5181.2	5348.9	5675.1
40°	5774.7	5682.5	5415.2	5199.6	5028.2	4792.2	4779.3	4860.4	4877.0	5041.1	5336.0
42.5°	5595.9	5485.3	5184.8	4948.9	4751.7	4512.1	4486.3	4556.3	4574.8	4735.1	5024.5
45°	5415.2	5282.5	4948.9	4690.9	4475.2	4230.1	4204.3	4257.7	4285.4	4436.5	4714.8
47.5°	5223.5	5068.7	4705.6	4418.1	4195.1	3949.9	3918.6	3972.0	3994.2	4143.4	4407.0
50°	5022.6	4834.6	4454.9	4137.9	3916.7	3675.3	3629.2	3691.9	3712.1	3852.2	4110.3
52.5°	4801.5	4593.2	4187.7	3855.9	3634.7	3404.3	3349.0	3409.9	3433.8	3570.2	3808.0
55°	4567.4	4342.5	3918.6	3596.0	3356.4	3131.5	3085.5	3109.4	3161.0	3290.1	3511.2
57.5°	4303.8	4080.8	3634.7	3306.6	3076.3	2860.6	2821.9	2844.0	2891.9	3017.3	3216.3
60°	4023.6	3787.7	3345.4	3017.3	2794.2	2589.7	2554.6	2574.9	2626.5	2740.8	2925.1
62.5°	3747.2	3481.8	3046.8	2720.5	2517.8	2327.9	2318.7	2311.3	2359.3	2469.9	2632.0
65°	3411.7	3157.4	2735.3	2425.6	2241.3	2069.9	2033.0	2049.6	2095.7	2197.1	2366.6
67.5°	3052.3	2821.9	2416.4	2130.7	1966.7	1813.7	1782.3	1789.7	1837.6	1926.1	2073.6
70°	2670.8	2468.0	2090.2	1834.0	1695.7	1552.0	1531.7	1533.5	1579.6	1657.0	1786.0
72.5°	2270.8	2088.3	1760.2	1540.9	1426.6	1323.4	1305.0	1282.8	1325.2	1391.6	1502.2
75°	1863.4	1703.1	1432.1	1253.4	1163.0	1076.4	1059.8	1037.7	1080.1	1137.2	1223.9
77.5°	1452.4	1323.4	1113.3	975.0	905.0	840.5	825.7	801.8	844.2	886.6	954.8
80°	1050.6	956.6	831.3	685.7	661.7	619.3	604.6	578.8	619.3	647.0	698.6
82.5°	678.3	615.6	543.7	442.4	438.7	407.3	400.0	370.5	407.3	423.9	462.6
85°	342.8	313.3	294.9	224.9	232.2	212.0	210.1	178.8	208.3	215.7	237.8
87.5°	97.7	103.2	92.2	55.3	70.0	66.4	66.4	47.9	66.4	66.4	75.6
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: P838125

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7	7901.7
2.5°	7909.0	7940.4	7947.8	7945.9	7966.2	8076.8	8039.9	8076.8
5°	7927.5	7997.5	8016.0	8041.8	8074.9	8200.3	8159.7	8204.0
7.5°	7938.5	8043.6	8084.2	8133.9	8187.4	8327.4	8294.3	8338.5
10°	7938.5	8074.9	8133.9	8216.9	8288.7	8450.9	8419.6	8471.2
12.5°	7905.4	8080.5	8163.4	8279.5	8371.7	8546.8	8533.9	8570.7
15°	7837.2	8052.8	8167.1	8316.4	8430.7	8626.0	8620.5	8664.7
17.5°	7745.0	8004.9	8143.1	8331.1	8474.9	8694.2	8707.1	8731.1
20°	7628.9	7914.6	8095.2	8325.6	8506.2	8747.7	8764.3	8797.5
22.5°	7475.9	7805.8	8023.3	8301.6	8509.9	8769.8	8799.3	8830.6
25°	7295.3	7675.0	7929.3	8255.6	8491.5	8768.0	8808.5	8836.2
27.5°	7088.8	7505.4	7809.5	8181.8	8439.9	8738.5	8788.2	8821.4
30°	6849.2	7324.8	7673.1	8086.0	8369.8	8683.2	8736.6	8769.8
32.5°	6602.2	7125.7	7510.9	7962.5	8268.5	8594.7	8640.8	8666.6
35°	6333.1	6884.2	7315.5	7804.0	8137.6	8452.8	8487.8	8515.5
37.5°	6040.1	6622.5	7092.5	7625.2	7953.3	8255.6	8286.9	8318.2
40°	5737.8	6347.9	6841.9	7405.9	7733.9	8014.1	8047.3	8069.4
42.5°	5433.7	6043.8	6574.6	7147.8	7474.1	7743.2	7763.4	7785.6
45°	5125.9	5728.6	6274.2	6862.1	7184.7	7437.2	7444.6	7463.0
47.5°	4812.5	5402.3	5944.2	6535.9	6854.8	7085.2	7092.5	7107.3
50°	4497.3	5076.1	5592.2	6183.8	6495.3	6738.6	6705.5	6720.2
52.5°	4187.7	4733.3	5260.4	5804.1	6112.0	6327.6	6336.8	6307.3
55°	3883.6	4397.8	4882.6	5406.0	5699.1	5866.8	5861.3	5872.3
57.5°	3575.8	4058.7	4502.9	4982.1	5267.8	5426.3	5459.5	5420.8
60°	3262.4	3715.8	4114.0	4547.1	4823.6	4956.3	4995.0	4958.1
62.5°	2950.9	3367.5	3728.7	4106.6	4362.8	4526.8	4523.1	4482.6
65°	2639.4	3017.3	3339.8	3660.5	3883.6	4047.6	4040.2	4003.4
67.5°	2351.9	2663.4	2952.8	3212.6	3406.2	3518.6	3557.3	3513.1
70°	2034.9	2304.0	2558.3	2766.6	2927.0	3028.3	3065.2	3026.5
72.5°	1717.8	1946.4	2125.2	2326.1	2449.6	2534.4	2573.1	2536.2
75°	1404.5	1592.5	1738.1	1894.8	1981.4	2053.3	2097.5	2060.7
77.5°	1100.4	1246.0	1362.1	1476.4	1575.9	1592.5	1631.2	1607.2
80°	811.0	916.1	1000.8	1076.4	1148.3	1155.7	1187.0	1172.3
82.5°	540.0	610.1	632.2	711.5	757.5	750.2	781.5	770.4
85°	285.7	328.1	366.8	390.8	416.6	392.6	420.2	409.2
87.5°	95.8	101.4	88.5	125.3	138.2	118.0	134.6	129.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)