

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: P838136

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-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: P838136
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-LD4-4LO-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

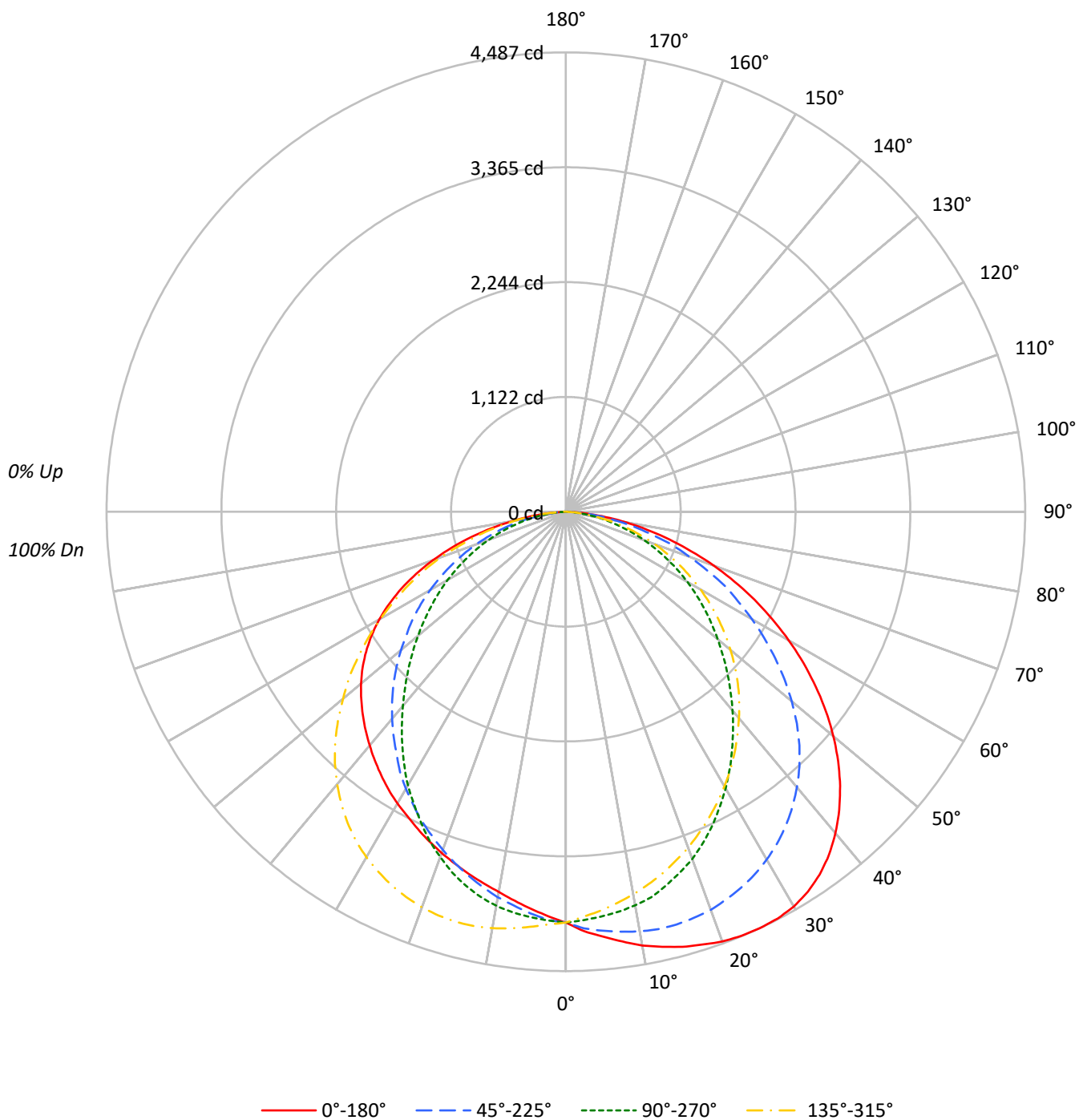
Lumens per Lamp: N/A
Luminaire Lumens: 11771.4 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5398	5398	5398	5398
5°	5626	5360	5259	5368
10°	5877	5332	5152	5340
15°	6129	5264	5101	5266
20°	6396	5169	5079	5139
25°	6661	5024	5078	4973
30°	6919	4849	5113	4795
35°	7102	4650	5164	4576
40°	7197	4450	5236	4350
45°	7211	4247	5337	4141
50°	7143	4053	5468	3945
55°	6995	3873	5590	3765
60°	6775	3684	5664	3589
65°	6472	3468	5635	3388
70°	6046	3214	5434	3155
75°	5439	2866	4987	2851
80°	4612	2400	4192	2437
85°	3208	1590	2658	1633

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	3.2
10°-20°	1103.1	9.4
20°-30°	1690.5	14.4
30°-40°	2055.6	17.5
40°-50°	2136.9	18.2
50°-60°	1930.3	16.4
60°-70°	1467.5	12.5
70°-80°	818.1	7.0
80°-90°	188.4	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°	3174.6	27.0
0°-40°	5230.2	44.4
0°-60°	9297.4	79.0
0°-90°	11771.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11771.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4012	4012	4012	4012	4012	
5°	4166	3968	3893	3975	4166	402
15°	4400	3779	3662	3780	4400	1247
25°	4487	3384	3421	3350	4487	2072
35°	4324	2831	3144	2786	4324	2701
45°	3790	2232	2805	2176	3790	2918
55°	2982	1651	2383	1605	2982	2662
65°	2033	1089	1770	1064	2033	2009
75°	1046	551	959	548	1046	1111
85°	208	103	172	106	208	262
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°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	4101.2	4041.3	4042.2	4094.6	4054.4	4074.0	4017.9	4039.4	4032.8	4037.5	3991.7
5°	4165.7	4101.2	4100.2	4145.1	4100.2	4108.6	4037.5	4051.6	4031.0	4017.9	3968.3
7.5°	4234.1	4169.5	4162.9	4202.2	4143.3	4136.7	4058.1	4058.1	4020.7	3987.9	3941.1
10°	4301.4	4235.0	4226.6	4256.5	4183.5	4162.0	4066.5	4051.6	4001.9	3953.3	3902.7
12.5°	4352.0	4284.6	4278.0	4296.8	4214.4	4175.1	4066.5	4037.5	3964.5	3896.2	3856.9
15°	4399.7	4330.5	4312.7	4322.0	4227.5	4175.1	4053.4	4008.5	3914.9	3825.1	3779.2
17.5°	4433.4	4367.0	4349.2	4348.2	4234.1	4159.2	4025.3	3963.6	3851.3	3742.7	3696.8
20°	4467.1	4400.6	4378.2	4361.3	4232.2	4137.7	3984.2	3900.9	3769.8	3648.2	3609.8
22.5°	4483.9	4415.6	4391.3	4366.0	4220.0	4098.3	3933.6	3827.9	3678.1	3533.1	3501.2
25°	4486.7	4416.6	4390.4	4353.9	4195.7	4051.6	3868.1	3739.9	3572.4	3411.4	3384.2
27.5°	4479.3	4402.5	4376.3	4332.3	4159.2	3994.5	3790.4	3639.8	3460.1	3282.2	3253.2
30°	4453.1	4375.4	4350.1	4293.0	4107.7	3924.3	3705.3	3528.4	3335.6	3146.5	3121.3
32.5°	4400.6	4324.8	4304.2	4247.2	4051.6	3842.8	3606.1	3408.6	3198.0	3017.4	2979.9
35°	4323.9	4248.1	4235.0	4175.1	3972.9	3745.5	3497.5	3277.6	3052.0	2867.6	2831.1
37.5°	4223.8	4160.1	4140.5	4081.5	3880.3	3635.1	3373.0	3135.3	2903.2	2704.8	2682.3
40°	4097.4	4037.5	4022.5	3970.1	3772.7	3512.5	3238.2	2988.4	2749.7	2565.3	2533.5
42.5°	3953.3	3897.1	3888.7	3834.4	3639.8	3376.8	3092.2	2835.8	2589.7	2411.8	2380.0
45°	3789.5	3735.2	3733.3	3681.9	3494.7	3226.1	2938.8	2681.4	2433.4	2249.0	2232.1
47.5°	3608.9	3560.2	3560.2	3512.5	3332.8	3060.4	2780.6	2520.4	2276.1	2113.3	2083.3
50°	3412.3	3366.5	3352.4	3329.0	3154.0	2879.8	2614.0	2363.2	2120.8	1965.4	1936.4
52.5°	3202.7	3163.4	3172.7	3129.7	2960.3	2691.7	2445.5	2186.3	1964.5	1823.2	1794.1
55°	2981.8	2925.7	2934.1	2918.2	2758.1	2497.9	2256.5	2040.3	1811.0	1678.1	1650.9
57.5°	2752.5	2679.5	2709.5	2700.1	2542.9	2299.5	2083.3	1874.6	1658.4	1535.8	1509.6
60°	2517.6	2447.4	2478.3	2469.9	2322.0	2101.1	1904.6	1710.8	1506.8	1395.4	1369.2
62.5°	2276.1	2211.6	2239.6	2233.1	2097.4	1898.0	1726.8	1548.9	1354.3	1254.1	1229.8
65°	2032.8	1971.0	1996.3	1991.6	1866.2	1714.6	1544.3	1381.4	1200.8	1113.7	1089.4
67.5°	1783.8	1726.8	1750.2	1750.2	1635.0	1490.0	1360.8	1212.0	1050.1	975.2	952.8
70°	1536.8	1483.4	1504.0	1502.1	1404.8	1286.9	1175.5	1042.6	897.5	835.8	817.0
72.5°	1287.8	1241.0	1259.7	1257.9	1176.4	1100.6	990.2	875.1	748.7	699.1	682.3
75°	1046.3	1002.4	1020.1	1018.3	951.8	880.7	806.8	711.3	602.7	568.1	551.3
77.5°	816.1	771.2	786.2	786.2	737.5	686.0	627.1	553.1	476.4	438.9	426.8
80°	595.2	573.7	566.2	567.2	534.4	500.7	470.8	399.6	343.5	318.2	309.8
82.5°	391.2	373.4	365.9	367.8	349.1	328.5	309.8	260.2	222.7	207.8	203.1
85°	207.8	194.7	188.1	192.8	189.1	177.8	168.5	134.8	111.4	105.8	103.0
87.5°	65.5	57.1	52.4	69.3	59.0	52.4	50.5	40.2	30.9	30.9	29.9
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°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	4006.6	4006.6	3970.1	3961.7	3958.0	3962.6	3926.1	3919.6	3972.0	3954.2	3914.0
5°	3974.8	3972.9	3921.5	3912.1	3912.1	3906.5	3865.3	3855.9	3908.4	3893.4	3849.4
7.5°	3935.5	3929.9	3869.0	3862.5	3853.1	3849.4	3803.5	3797.0	3841.9	3832.5	3791.4
10°	3887.8	3882.2	3810.1	3805.4	3795.1	3787.6	3744.6	3739.9	3785.8	3770.8	3738.0
12.5°	3825.1	3814.8	3740.8	3736.2	3727.7	3724.9	3682.8	3680.9	3731.5	3716.5	3681.9
15°	3742.7	3734.3	3651.9	3653.8	3654.7	3654.7	3621.0	3619.2	3668.8	3662.2	3624.8
17.5°	3651.9	3640.7	3562.1	3567.7	3574.2	3581.7	3555.5	3560.2	3612.6	3604.2	3570.5
20°	3549.0	3537.7	3461.0	3476.9	3490.9	3505.9	3489.1	3502.2	3550.8	3547.1	3521.8
22.5°	3433.9	3422.6	3351.5	3375.8	3399.2	3427.3	3419.8	3434.8	3486.3	3485.3	3462.9
25°	3293.5	3296.3	3233.6	3263.5	3302.8	3342.1	3344.9	3369.3	3426.4	3420.7	3400.2
27.5°	3162.4	3166.2	3099.7	3150.3	3202.7	3253.2	3265.4	3299.1	3357.1	3352.4	3334.6
30°	3024.9	3029.5	2965.0	3034.2	3097.9	3159.6	3185.8	3231.7	3290.7	3290.7	3271.9
32.5°	2881.7	2890.1	2822.7	2915.4	2989.3	3061.4	3107.2	3155.0	3222.3	3220.5	3204.6
35°	2734.7	2744.1	2682.3	2800.2	2874.2	2962.2	3019.2	3082.9	3142.8	3143.7	3131.6
37.5°	2585.0	2596.2	2540.1	2669.2	2753.4	2857.3	2930.3	2994.0	3060.4	3064.2	3052.9
40°	2436.2	2448.3	2399.7	2524.1	2630.8	2746.9	2831.1	2906.0	2979.0	2980.9	2973.4
42.5°	2287.4	2300.5	2264.0	2385.6	2506.4	2630.8	2730.0	2815.2	2890.1	2894.8	2886.3
45°	2142.3	2153.5	2127.3	2260.2	2376.3	2512.0	2626.2	2722.6	2798.4	2804.9	2802.1
47.5°	1998.2	2008.5	1985.1	2106.7	2240.6	2384.7	2516.7	2623.4	2703.8	2711.3	2709.5
50°	1856.8	1865.3	1840.0	1967.3	2100.2	2253.7	2391.2	2514.8	2604.6	2612.1	2611.2
52.5°	1716.5	1724.9	1703.4	1837.2	1957.9	2119.8	2269.6	2403.4	2492.3	2503.6	2505.4
55°	1580.8	1584.5	1567.6	1695.9	1812.9	1982.3	2154.5	2284.6	2373.5	2382.8	2388.4
57.5°	1445.0	1446.0	1431.9	1554.5	1666.9	1840.0	2020.6	2157.3	2241.5	2250.9	2259.3
60°	1310.3	1309.3	1293.4	1412.3	1519.9	1691.2	1879.3	2015.0	2096.4	2104.9	2116.1
62.5°	1176.4	1173.6	1159.6	1269.1	1370.2	1539.6	1728.6	1859.7	1937.3	1942.9	1957.9
65°	1043.5	1040.7	1027.6	1128.7	1220.4	1382.3	1567.6	1692.1	1762.3	1769.8	1767.0
67.5°	912.5	906.9	896.6	987.4	1070.7	1220.4	1398.2	1517.1	1575.1	1581.7	1599.5
70°	781.5	774.9	751.5	847.9	920.9	1054.8	1220.4	1326.2	1374.9	1381.4	1378.6
72.5°	652.3	645.8	620.5	709.4	771.2	888.2	1036.1	1124.0	1166.1	1171.8	1171.8
75°	526.9	523.2	507.3	574.6	626.1	721.6	847.0	920.0	952.8	959.3	957.4
77.5°	406.2	403.4	387.5	445.5	485.7	556.9	657.9	715.0	739.4	746.9	762.8
80°	291.1	290.1	264.9	322.0	339.7	399.6	473.6	517.6	530.7	541.0	552.2
82.5°	186.2	187.2	161.9	210.6	218.1	256.4	302.3	329.4	338.8	347.2	355.6
85°	90.8	94.5	80.5	111.4	112.3	132.0	151.6	161.9	165.7	172.2	179.7
87.5°	23.4	27.1	15.0	31.8	28.1	36.5	42.1	44.9	44.0	48.7	51.5
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°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	3927.1	3957.0	3942.1	3990.7	4009.4	3979.5	4031.9	4032.8	3995.4	4039.4	4063.7
5°	3866.2	3897.1	3887.8	3938.3	3961.7	3935.5	3999.1	4011.3	3974.8	4024.4	4063.7
7.5°	3804.5	3841.0	3828.8	3880.3	3908.4	3887.8	3956.1	3975.7	3947.7	4001.9	4054.4
10°	3751.1	3782.0	3768.9	3823.2	3847.5	3830.7	3898.1	3934.6	3908.4	3974.8	4037.5
12.5°	3698.7	3724.0	3709.0	3753.9	3777.3	3755.8	3838.2	3871.9	3853.1	3922.4	4002.9
15°	3631.3	3659.4	3638.8	3679.1	3696.8	3678.1	3745.5	3803.5	3780.1	3855.9	3944.9
17.5°	3579.9	3595.8	3567.7	3599.5	3609.8	3584.5	3652.9	3709.9	3693.1	3775.5	3878.4
20°	3522.8	3535.9	3496.6	3514.3	3513.4	3481.6	3544.3	3600.4	3589.2	3680.0	3797.0
22.5°	3459.1	3465.7	3419.8	3423.6	3421.7	3369.3	3425.4	3482.5	3477.8	3569.6	3700.6
25°	3391.7	3392.7	3333.7	3331.8	3311.2	3249.5	3299.1	3363.7	3349.6	3448.8	3586.4
27.5°	3325.3	3315.9	3244.8	3228.0	3195.2	3121.3	3165.2	3223.3	3214.8	3312.2	3464.7
30°	3254.2	3242.0	3155.0	3124.1	3076.3	2991.2	3027.7	3081.9	3086.6	3171.8	3331.8
32.5°	3186.8	3155.9	3059.5	3014.6	2954.7	2855.5	2875.1	2930.3	2937.8	3023.9	3188.6
35°	3099.7	3079.1	2960.3	2883.5	2824.6	2716.0	2736.6	2775.0	2786.2	2870.4	3038.0
37.5°	3017.4	2984.6	2858.3	2764.7	2688.9	2574.7	2580.3	2619.6	2630.8	2716.0	2881.7
40°	2932.2	2885.4	2749.7	2640.2	2553.2	2433.4	2426.8	2468.0	2476.4	2559.7	2709.5
42.5°	2841.4	2785.3	2632.7	2512.9	2412.8	2291.1	2278.0	2313.6	2322.9	2404.4	2551.3
45°	2749.7	2682.3	2512.9	2381.9	2272.4	2147.9	2134.8	2162.0	2176.0	2252.7	2394.1
47.5°	2652.4	2573.8	2389.4	2243.4	2130.1	2005.7	1989.7	2016.9	2028.1	2103.9	2237.8
50°	2550.4	2454.9	2262.1	2101.1	1988.8	1866.2	1842.8	1874.6	1884.9	1956.1	2087.1
52.5°	2438.0	2332.3	2126.4	1957.9	1845.6	1728.6	1700.5	1731.4	1743.6	1812.9	1933.6
55°	2319.2	2205.0	1989.7	1826.0	1704.3	1590.1	1566.7	1578.9	1605.1	1670.6	1782.9
57.5°	2185.3	2072.1	1845.6	1679.0	1562.0	1452.5	1432.9	1444.1	1468.4	1532.1	1633.2
60°	2043.1	1923.3	1698.7	1532.1	1418.8	1315.0	1297.2	1307.5	1333.7	1391.7	1485.3
62.5°	1902.7	1767.9	1547.1	1381.4	1278.5	1182.1	1177.4	1173.6	1198.0	1254.1	1336.5
65°	1732.4	1603.2	1388.9	1231.7	1138.1	1051.0	1032.3	1040.7	1064.1	1115.6	1201.7
67.5°	1549.9	1432.9	1227.0	1081.9	998.6	920.9	905.0	908.8	933.1	978.0	1052.9
70°	1356.1	1253.2	1061.3	931.2	861.0	788.0	777.7	778.7	802.1	841.4	906.9
72.5°	1153.0	1060.4	893.8	782.4	724.4	672.0	662.6	651.4	672.9	706.6	762.8
75°	946.2	864.8	727.2	636.4	590.6	546.6	538.1	526.9	548.4	577.5	621.4
77.5°	737.5	672.0	565.3	495.1	459.5	426.8	419.3	407.1	428.6	450.2	484.8
80°	533.5	485.7	422.1	348.2	336.0	314.5	307.0	293.9	314.5	328.5	354.7
82.5°	344.4	312.6	276.1	224.6	222.7	206.8	203.1	188.1	206.8	215.3	234.9
85°	174.1	159.1	149.7	114.2	117.9	107.6	106.7	90.8	105.8	109.5	120.7
87.5°	49.6	52.4	46.8	28.1	35.6	33.7	33.7	24.3	33.7	33.7	38.4
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: P838136

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2	4012.2
2.5°	4016.0	4031.9	4035.6	4034.7	4045.0	4101.2	4082.4	4101.2
5°	4025.3	4060.9	4070.3	4083.4	4100.2	4163.9	4143.3	4165.7
7.5°	4031.0	4084.3	4104.9	4130.2	4157.3	4228.4	4211.6	4234.1
10°	4031.0	4100.2	4130.2	4172.3	4208.8	4291.1	4275.2	4301.4
12.5°	4014.1	4103.0	4145.1	4204.1	4250.9	4339.8	4333.3	4352.0
15°	3979.5	4089.0	4147.0	4222.8	4280.8	4380.1	4377.2	4399.7
17.5°	3932.7	4064.7	4134.8	4230.3	4303.3	4414.7	4421.2	4433.4
20°	3873.7	4018.8	4110.5	4227.5	4319.2	4441.8	4450.2	4467.1
22.5°	3796.0	3963.6	4074.0	4215.3	4321.1	4453.1	4468.0	4483.9
25°	3704.3	3897.1	4026.3	4191.9	4311.7	4452.1	4472.7	4486.7
27.5°	3599.5	3811.0	3965.4	4154.5	4285.5	4437.1	4462.4	4479.3
30°	3477.8	3719.3	3896.2	4105.8	4250.0	4409.1	4436.2	4453.1
32.5°	3352.4	3618.2	3813.8	4043.1	4198.5	4364.1	4387.5	4400.6
35°	3215.8	3495.6	3714.6	3962.6	4132.0	4292.1	4309.9	4323.9
37.5°	3067.0	3362.7	3601.4	3871.9	4038.4	4191.9	4207.8	4223.8
40°	2913.5	3223.3	3474.1	3760.5	3927.1	4069.3	4086.2	4097.4
42.5°	2759.1	3068.8	3338.4	3629.5	3795.1	3931.8	3942.1	3953.3
45°	2602.8	2908.8	3185.8	3484.4	3648.2	3776.4	3780.1	3789.5
47.5°	2443.7	2743.2	3018.3	3318.7	3480.6	3597.6	3601.4	3608.9
50°	2283.6	2577.5	2839.5	3140.0	3298.1	3421.7	3404.8	3412.3
52.5°	2126.4	2403.4	2671.1	2947.2	3103.5	3213.0	3217.7	3202.7
55°	1972.0	2233.1	2479.2	2745.0	2893.8	2979.0	2976.2	2981.8
57.5°	1815.7	2060.9	2286.4	2529.8	2674.8	2755.3	2772.2	2752.5
60°	1656.6	1886.8	2088.9	2308.9	2449.3	2516.7	2536.3	2517.6
62.5°	1498.4	1709.9	1893.3	2085.2	2215.3	2298.6	2296.7	2276.1
65°	1340.2	1532.1	1695.9	1858.7	1972.0	2055.3	2051.5	2032.8
67.5°	1194.2	1352.4	1499.3	1631.3	1729.6	1786.7	1806.3	1783.8
70°	1033.2	1169.9	1299.0	1404.8	1486.2	1537.7	1556.4	1536.8
72.5°	872.3	988.3	1079.1	1181.1	1243.8	1286.9	1306.5	1287.8
75°	713.2	808.6	882.6	962.1	1006.1	1042.6	1065.1	1046.3
77.5°	558.7	632.7	691.6	749.7	800.2	808.6	828.3	816.1
80°	411.8	465.1	508.2	546.6	583.1	586.8	602.7	595.2
82.5°	274.2	309.8	321.0	361.3	384.7	380.9	396.8	391.2
85°	145.1	166.6	186.2	198.4	211.5	199.3	213.4	207.8
87.5°	48.7	51.5	44.9	63.6	70.2	59.9	68.3	65.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)