

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: PORTFOLIO

Report Number: P250911

Luminaire Tested: **LD8B70D010 ER8B70930 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70930 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6572.4 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

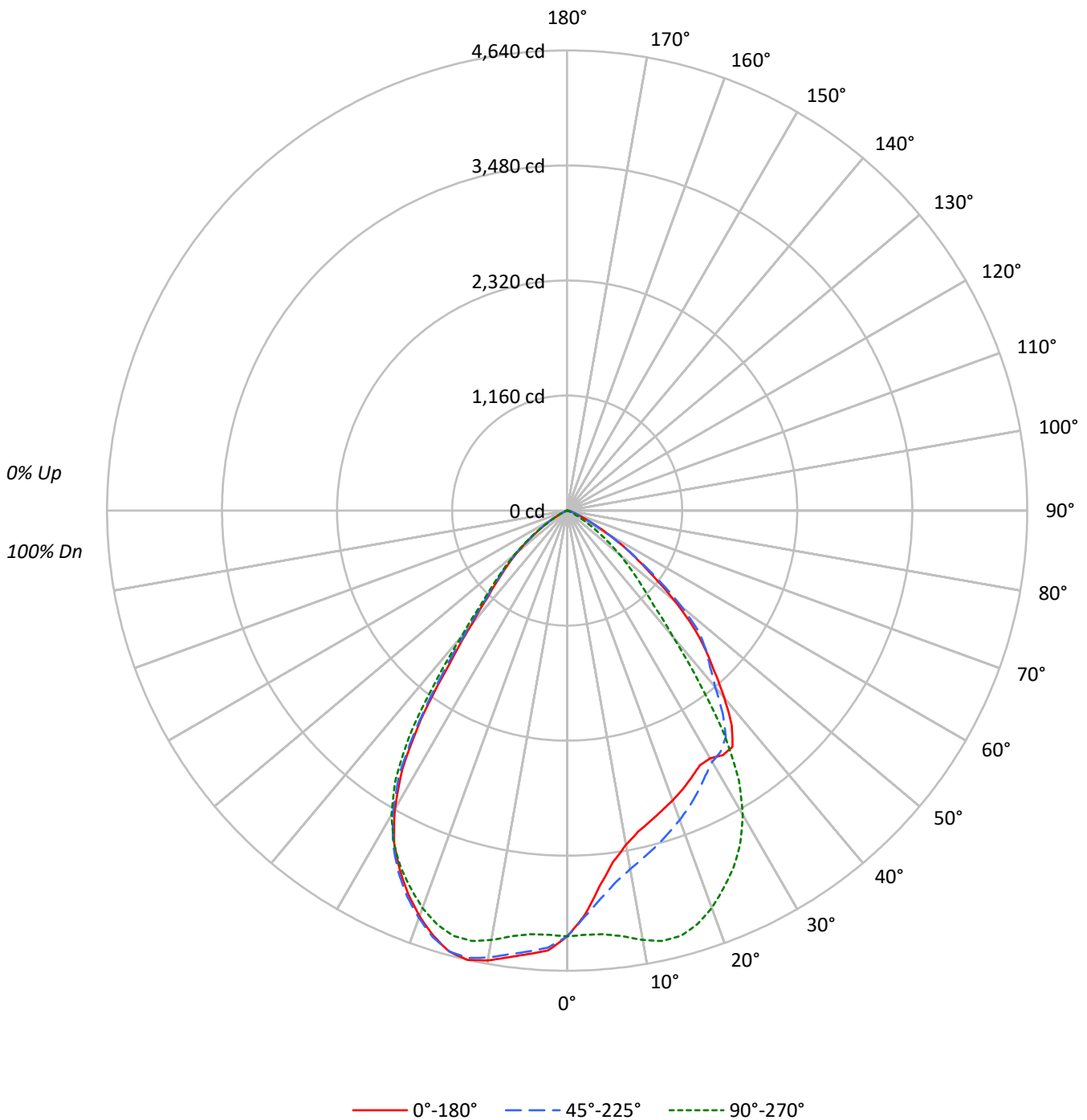
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.2	6.1
10°-20°	1155.8	17.6
20°-30°	1677.6	25.5
30°-40°	1652.3	25.1
40°-50°	1035.7	15.8
50°-60°	499.8	7.6
60°-70°	120.9	1.8
70°-80°	24.4	0.4
80°-90°	5.6	0.1
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°	3233.6	49.2
0°-40°	4885.9	74.3
0°-60°	6421.4	97.7
0°-90°	6572.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6572.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4294	4294	4294	4294	4294	
5°	3795	3924	4288	4462	4489	351
15°	3242	3497	4438	4600	4604	917
25°	2969	3124	3971	4025	3996	1374
35°	2907	2789	2772	2614	2571	1759
45°	1963	1976	1048	1004	976	1501
55°	872	900	381	377	359	802
65°	204	202	56	48	43	233
75°	50	43	12	6	4	56
85°	15	11	2	0	0	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7
2.5°	4081.6	4055.6	4007.1	4065.8	4065.8	4033.0	4098.5	4059.0	4090.5	4140.2	4096.2
5°	3795.0	3773.6	3732.9	3795.0	3802.9	3772.4	3851.4	3822.0	3868.3	3929.2	3923.6
7.5°	3568.3	3541.1	3503.9	3568.3	3580.7	3560.3	3636.0	3622.4	3683.3	3762.3	3775.9
10°	3420.5	3392.3	3359.5	3418.2	3427.2	3413.7	3490.5	3482.5	3542.2	3633.7	3669.8
12.5°	3315.6	3291.8	3255.7	3317.8	3327.9	3308.7	3380.9	3377.6	3439.7	3535.5	3580.7
15°	3242.3	3214.0	3181.3	3234.3	3247.9	3226.5	3295.3	3288.5	3351.7	3446.4	3497.2
17.5°	3173.4	3147.4	3113.6	3163.2	3176.8	3154.3	3221.9	3210.7	3264.8	3355.0	3406.9
20°	3109.1	3080.8	3050.5	3101.2	3109.1	3083.2	3150.8	3136.2	3184.6	3268.2	3318.9
22.5°	3042.5	3013.2	2981.6	3031.3	3039.1	3013.2	3075.2	3058.3	3103.5	3179.0	3225.3
25°	2969.2	2942.2	2910.6	2956.9	2963.6	2935.3	3000.8	2979.4	3018.9	3085.4	3123.8
27.5°	2895.9	2870.0	2835.0	2882.3	2885.8	2858.7	2918.4	2889.2	2921.9	2982.8	3015.5
30°	2883.4	2854.2	2818.1	2856.4	2857.5	2822.6	2879.0	2844.0	2862.0	2907.2	2926.4
32.5°	2923.0	2893.6	2856.4	2888.0	2884.6	2846.2	2900.4	2857.5	2863.1	2886.9	2882.3
35°	2907.2	2872.2	2828.2	2862.0	2862.0	2815.8	2870.0	2819.2	2813.5	2817.0	2788.7
37.5°	2727.8	2700.7	2659.0	2691.7	2688.3	2653.3	2695.1	2653.3	2634.1	2626.3	2575.5
40°	2463.8	2431.1	2399.5	2434.5	2437.8	2400.6	2454.8	2407.5	2401.7	2379.2	2319.5
42.5°	2196.5	2185.2	2154.7	2184.0	2199.9	2168.2	2213.4	2190.8	2194.2	2188.5	2132.1
45°	1963.0	1943.7	1921.2	1955.0	1965.2	1949.4	1994.5	1981.0	1994.5	2022.7	1976.4
47.5°	1711.3	1692.1	1667.4	1703.5	1721.5	1692.1	1730.5	1726.0	1746.3	1794.8	1790.3
50°	1407.9	1394.4	1389.8	1394.4	1405.6	1392.1	1419.2	1420.3	1433.9	1500.3	1504.9
52.5°	1114.6	1111.2	1095.4	1110.1	1110.1	1088.6	1115.7	1103.3	1116.9	1161.9	1191.3
55°	872.0	868.7	858.5	872.0	857.3	849.5	857.3	845.0	834.8	869.8	900.3
57.5°	679.1	667.9	655.4	661.1	659.9	643.0	652.1	637.4	629.4	641.9	669.0
60°	483.9	480.6	469.3	475.0	479.5	467.0	476.1	469.3	455.8	465.9	467.0
62.5°	321.5	323.7	317.0	318.1	314.8	312.5	318.1	321.5	318.1	313.7	314.8
65°	204.1	203.0	201.9	203.0	205.4	200.8	204.1	206.5	203.0	203.0	201.9
67.5°	135.4	131.9	128.6	130.8	133.1	129.7	133.1	131.9	133.1	131.9	128.6
70°	91.4	90.2	89.1	90.2	90.2	88.0	90.2	89.1	90.2	89.1	85.8
72.5°	66.6	66.6	65.5	66.6	66.6	64.3	65.5	63.2	64.3	63.2	60.9
75°	49.7	49.7	48.5	49.7	48.5	47.4	48.5	47.4	45.2	45.2	42.8
77.5°	36.1	36.1	36.1	36.1	36.1	35.0	35.0	33.9	32.7	31.6	31.6
80°	27.1	25.9	25.9	25.9	25.9	24.8	25.9	24.8	23.7	22.5	21.4
82.5°	19.2	20.3	19.2	19.2	19.2	18.0	19.2	18.0	18.0	16.9	14.7
85°	14.7	14.7	14.7	14.7	14.7	13.6	13.6	13.6	12.4	12.4	11.3
87.5°	7.8	7.8	7.8	9.1	7.8	7.8	7.8	6.7	6.7	5.6	5.6
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: P250911

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7
2.5°	4154.9	4160.5	4148.1	4167.3	4241.8	4182.0	4206.8	4214.6	4271.1	4281.2	4274.5
5°	3996.9	4021.7	4037.5	4080.4	4162.7	4119.9	4163.8	4192.1	4264.3	4287.9	4293.7
7.5°	3872.8	3924.7	3963.1	4033.0	4130.1	4097.4	4163.8	4210.1	4298.1	4328.6	4343.3
10°	3780.3	3859.3	3925.9	4021.7	4131.2	4109.7	4196.6	4262.0	4360.2	4396.3	4414.4
12.5°	3710.4	3806.2	3895.4	4017.2	4135.7	4125.5	4230.4	4304.9	4408.7	4444.8	4466.3
15°	3633.7	3744.3	3848.1	3984.5	4112.1	4109.7	4222.6	4301.5	4407.5	4438.0	4458.3
17.5°	3542.2	3660.7	3774.7	3922.5	4048.8	4051.1	4165.1	4242.9	4346.7	4371.5	4385.0
20°	3449.8	3567.1	3681.0	3833.4	3957.5	3960.8	4072.5	4144.7	4244.0	4264.3	4267.6
22.5°	3351.7	3461.1	3575.0	3726.2	3845.8	3848.1	3958.6	4026.3	4110.8	4121.0	4130.1
25°	3239.9	3347.1	3454.4	3604.4	3718.2	3725.1	3825.4	3885.3	3963.1	3971.0	3974.4
27.5°	3123.8	3211.8	3314.5	3443.0	3558.1	3553.6	3648.3	3716.0	3786.0	3781.5	3780.3
30°	3006.4	3079.7	3142.9	3267.0	3351.7	3355.0	3444.2	3476.9	3550.2	3541.1	3540.0
32.5°	2924.1	2943.3	2960.2	3023.3	3103.5	3075.2	3136.2	3176.8	3227.6	3224.2	3225.3
35°	2772.9	2737.9	2687.1	2696.2	2744.8	2700.7	2733.4	2732.3	2784.2	2771.8	2786.5
37.5°	2514.6	2415.3	2302.5	2238.2	2247.3	2191.9	2180.7	2207.7	2225.7	2190.8	2203.2
40°	2239.3	2092.7	1916.7	1770.1	1762.1	1693.3	1680.9	1653.8	1688.8	1659.4	1668.5
42.5°	2036.3	1842.3	1611.0	1432.8	1394.4	1336.8	1302.9	1298.5	1308.7	1288.4	1282.6
45°	1880.6	1674.1	1409.0	1204.9	1161.9	1099.9	1066.1	1053.6	1054.7	1048.0	1042.4
47.5°	1697.9	1490.3	1221.8	1013.0	964.5	905.9	872.0	864.2	868.7	859.6	852.9
50°	1445.1	1259.0	1014.2	823.5	780.7	737.8	710.7	702.9	701.7	694.9	690.4
52.5°	1173.2	1018.7	806.6	647.5	609.2	567.5	548.3	538.1	539.2	532.5	525.7
55°	908.1	812.3	625.0	489.7	454.7	421.9	403.9	391.5	388.1	381.3	377.9
57.5°	675.7	611.4	468.1	353.1	332.8	301.2	283.2	268.5	266.2	262.9	261.8
60°	473.8	427.5	329.5	251.6	227.9	208.7	190.7	176.0	169.3	168.0	164.7
62.5°	306.8	278.7	216.6	168.0	150.0	136.5	118.5	108.3	103.8	99.3	100.4
65°	190.7	169.3	135.4	108.3	98.2	88.0	74.4	65.5	60.9	56.4	57.5
67.5°	118.5	106.0	85.8	70.0	63.2	55.3	45.2	38.3	35.0	31.6	29.4
70°	80.2	68.8	58.6	49.7	45.2	39.5	32.7	27.1	24.8	22.5	20.3
72.5°	56.4	50.8	42.8	37.2	33.9	29.4	24.8	21.4	19.2	16.9	14.7
75°	40.6	36.1	31.6	27.1	24.8	22.5	19.2	16.9	14.7	12.4	10.2
77.5°	29.4	25.9	22.5	20.3	19.2	15.8	13.6	12.4	11.3	9.1	6.7
80°	20.3	18.0	14.7	13.6	13.6	11.3	10.2	9.1	7.8	5.6	4.5
82.5°	13.6	12.4	11.3	10.2	9.1	7.8	7.8	5.6	4.5	3.4	2.2
85°	10.2	9.1	7.8	6.7	6.7	5.6	4.5	3.4	3.4	2.2	1.1
87.5°	5.6	5.6	4.5	3.4	3.4	2.2	2.2	1.1	1.1	1.1	1.1
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: P250911

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7
2.5°	4332.0	4335.4	4354.5	4339.8	4377.1	4404.2	4390.6	4421.1	4410.9	4408.7	4443.6
5°	4361.4	4369.2	4395.2	4381.7	4422.2	4451.6	4438.0	4471.9	4461.7	4459.5	4495.5
7.5°	4417.7	4425.6	4448.1	4436.9	4479.7	4505.7	4488.8	4526.0	4512.5	4511.4	4546.3
10°	4488.8	4500.0	4519.2	4508.0	4547.4	4570.0	4553.1	4589.1	4576.8	4571.1	4609.6
12.5°	4541.8	4549.7	4568.9	4559.9	4598.2	4615.2	4600.5	4635.4	4619.6	4615.2	4649.0
15°	4529.4	4537.4	4553.1	4545.2	4581.3	4597.1	4577.9	4616.3	4600.5	4591.5	4621.9
17.5°	4450.5	4455.0	4466.3	4458.3	4496.7	4506.9	4485.5	4523.8	4509.1	4493.3	4522.7
20°	4334.2	4332.0	4338.7	4335.4	4367.0	4372.6	4359.0	4387.3	4370.3	4361.4	4378.3
22.5°	4189.8	4187.6	4192.1	4183.1	4214.6	4218.1	4197.7	4231.6	4214.6	4197.7	4225.9
25°	4029.7	4017.2	4015.0	4018.3	4039.7	4043.2	4021.7	4046.6	4025.2	4011.6	4038.6
27.5°	3832.3	3816.4	3813.1	3816.4	3837.9	3822.0	3804.0	3822.0	3800.6	3788.2	3805.1
30°	3588.5	3566.0	3555.8	3549.1	3571.6	3566.0	3524.2	3544.6	3510.7	3492.7	3505.0
32.5°	3260.3	3247.9	3220.7	3204.9	3226.5	3183.5	3157.6	3157.6	3144.1	3113.6	3120.4
35°	2804.5	2785.3	2760.5	2747.0	2750.4	2692.9	2649.9	2659.0	2613.8	2606.0	2609.4
37.5°	2228.0	2196.5	2187.4	2159.3	2166.0	2115.2	2056.6	2057.7	2034.1	2009.2	2001.3
40°	1674.1	1668.5	1659.4	1635.8	1644.8	1589.6	1566.9	1568.1	1552.2	1534.2	1543.3
42.5°	1294.0	1275.9	1270.3	1262.4	1264.6	1255.6	1226.3	1229.6	1216.1	1211.6	1207.1
45°	1051.4	1032.2	1018.7	1025.5	1025.5	1015.3	1004.1	1010.8	1004.1	995.0	999.5
47.5°	866.4	848.4	841.5	840.4	848.4	841.5	830.3	832.6	831.4	828.1	825.8
50°	691.5	687.1	681.3	678.0	681.3	679.1	669.0	674.6	678.0	666.8	670.1
52.5°	526.9	526.9	525.7	517.8	524.6	517.8	516.7	518.9	515.5	511.1	509.9
55°	385.8	382.5	376.8	375.6	377.9	375.6	373.4	374.5	376.8	365.6	365.6
57.5°	264.0	261.8	258.4	258.4	262.9	257.2	253.8	258.4	253.8	249.3	249.3
60°	169.3	168.0	164.7	164.7	164.7	163.6	160.2	161.3	163.6	156.8	157.9
62.5°	101.6	98.2	97.0	95.8	97.0	95.8	95.8	94.7	93.6	93.6	90.2
65°	55.3	53.0	50.8	51.9	51.9	50.8	50.8	50.8	48.5	47.4	46.3
67.5°	28.2	25.9	25.9	24.8	24.8	24.8	24.8	23.7	23.7	23.7	22.5
70°	18.0	16.9	15.8	15.8	15.8	14.7	14.7	14.7	14.7	14.7	13.6
72.5°	12.4	11.3	10.2	10.2	10.2	9.1	9.1	9.1	9.1	7.8	7.8
75°	9.1	7.8	6.7	6.7	6.7	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	5.6	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	2.2
80°	3.4	3.4	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
82.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P250911

CATALOG NUMBER: LD8B70D010 ER8B70930 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7	4293.7
2.5°	4431.3	4422.2	4427.8	4469.7	4451.6	4445.9	4398.6	4440.3
5°	4484.3	4477.5	4477.5	4524.9	4503.5	4498.9	4452.7	4488.8
7.5°	4533.9	4527.2	4528.3	4576.8	4559.9	4553.1	4506.9	4543.0
10°	4598.2	4593.7	4594.9	4641.1	4623.0	4616.3	4568.9	4606.1
12.5°	4636.6	4629.8	4629.8	4679.5	4659.1	4649.0	4603.8	4639.9
15°	4607.2	4597.1	4597.1	4646.8	4624.1	4609.6	4570.0	4603.8
17.5°	4506.9	4496.7	4496.7	4539.6	4522.7	4501.2	4460.6	4492.2
20°	4367.0	4354.5	4351.2	4400.8	4377.1	4357.9	4321.8	4352.3
22.5°	4209.0	4203.4	4193.2	4242.9	4221.5	4201.2	4162.7	4186.5
25°	4019.5	4010.5	4000.3	4048.8	4027.4	4007.1	3976.6	3995.8
27.5°	3783.7	3784.8	3779.2	3817.6	3796.2	3784.8	3747.6	3779.2
30°	3498.3	3485.9	3481.4	3526.6	3506.2	3491.6	3445.3	3475.8
32.5°	3126.0	3108.0	3084.3	3135.1	3100.1	3087.7	3048.2	3092.2
35°	2584.6	2578.9	2557.4	2600.3	2581.1	2558.6	2533.8	2571.0
37.5°	1998.0	2002.4	2000.2	2011.4	2000.2	1985.5	1958.4	1944.9
40°	1525.2	1513.9	1504.9	1525.2	1501.6	1501.6	1485.8	1502.7
42.5°	1195.8	1191.3	1202.6	1207.1	1193.5	1191.3	1189.0	1187.9
45°	987.2	987.2	989.4	993.9	989.4	987.2	980.3	975.8
47.5°	813.4	817.9	813.4	828.1	820.1	817.9	804.3	810.0
50°	658.8	653.2	658.8	663.3	664.4	657.7	651.0	654.3
52.5°	511.1	502.0	499.7	506.6	502.0	502.0	497.5	496.4
55°	359.8	363.2	357.6	363.2	361.0	357.6	354.2	358.7
57.5°	243.7	244.8	242.6	245.9	240.3	241.5	240.3	239.1
60°	157.9	153.5	153.5	156.8	151.2	151.2	150.0	150.0
62.5°	90.2	89.1	89.1	88.0	86.9	86.9	86.9	84.6
65°	46.3	45.2	43.9	43.9	43.9	43.9	42.8	42.8
67.5°	22.5	21.4	21.4	22.5	21.4	21.4	21.4	21.4
70°	13.6	13.6	12.4	13.6	12.4	12.4	12.4	12.4
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)