

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252218

Luminaire Tested: **LE\_6B60D010R EC6B60709730 6LBSW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709730 6LBSW1LI  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7093.8 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

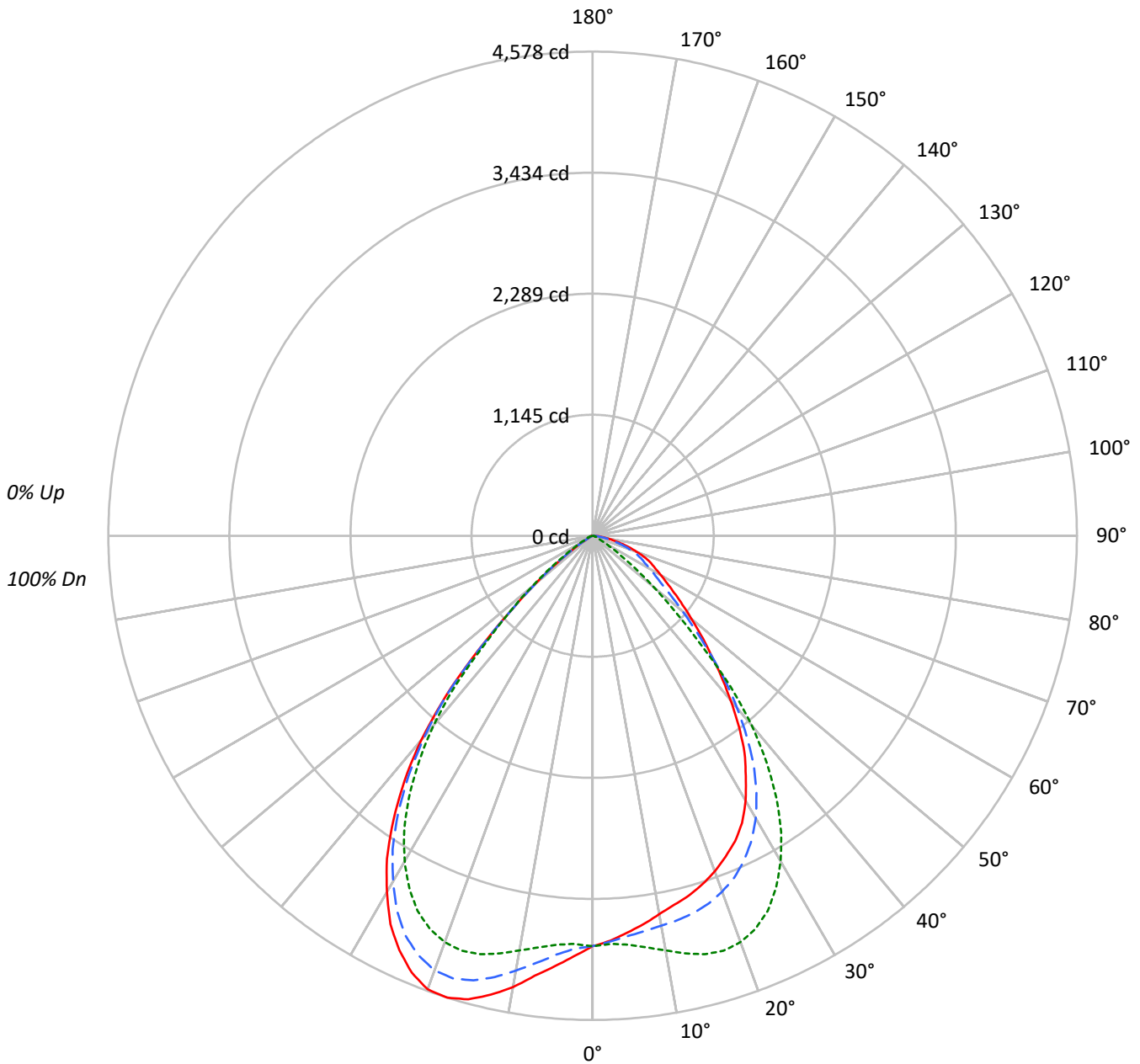
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

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

	0°	90°	180°
0°	253192	253192	253192
5°	246628	254160	267519
10°	240623	263730	287082
15°	237816	276652	306472
20°	234402	283862	316833
25°	229416	281764	311148
30°	218007	267765	292911
35°	199461	241417	261511
40°	172528	199381	214549
45°	145491	130757	140343
50°	123511	75696	71169
55°	107192	36296	27424
60°	96817	16950	6785
65°	93936	9741	2300
70°	84216	7783	2117
75°	69193	5596	958
80°	51547	2780	0
85°	44464	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.9	5.3
10°-20°	1142.4	16.1
20°-30°	1745.5	24.6
30°-40°	1825.6	25.7
40°-50°	1184.3	16.7
50°-60°	470.2	6.6
60°-70°	223.1	3.1
70°-80°	106.1	1.5
80°-90°	21.6	0.3
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°	3262.8	46.0
0°-40°	5088.4	71.7
0°-60°	6743.0	95.1
0°-90°	7093.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7093.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3881	3881	3881	3881	3881	
5°	3766	3799	3881	3977	4085	356
15°	3521	3692	4096	4352	4538	992
25°	3187	3387	3914	4178	4322	1459
35°	2504	2656	3031	3209	3284	1549
45°	1577	1562	1417	1503	1521	1227
55°	942	801	319	249	241	854
65°	608	505	63	15	15	594
75°	274	223	22	7	4	296
85°	59	37	0	0	0	69
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°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3832.6	3840.0	3799.2	3788.1	3817.8	3828.9	3832.6	3821.5	3825.2	3840.0	3840.0
5°	3765.9	3773.2	3736.1	3725.0	3754.8	3762.1	3773.2	3769.5	3780.6	3802.9	3799.2
7.5°	3702.8	3713.9	3673.1	3658.2	3695.4	3713.9	3721.2	3721.2	3736.1	3765.9	3769.5
10°	3632.2	3647.1	3610.0	3602.6	3643.4	3662.0	3665.6	3673.1	3695.4	3736.1	3743.6
12.5°	3572.9	3587.8	3561.8	3550.6	3595.1	3613.8	3621.1	3636.0	3662.0	3713.9	3721.2
15°	3521.0	3532.1	3502.4	3495.0	3539.5	3561.8	3565.5	3587.8	3621.1	3680.5	3691.6
17.5°	3454.1	3461.6	3439.4	3431.9	3476.4	3498.8	3502.4	3528.4	3569.1	3628.5	3647.1
20°	3376.2	3383.6	3361.4	3354.0	3398.5	3424.5	3428.2	3450.5	3498.8	3561.8	3580.4
22.5°	3283.5	3298.4	3272.4	3265.0	3309.5	3331.8	3342.9	3361.4	3409.6	3472.8	3498.8
25°	3187.0	3187.0	3168.5	3164.8	3205.6	3231.5	3227.9	3253.9	3302.0	3365.1	3387.4
27.5°	3060.9	3057.1	3038.6	3034.9	3079.5	3101.8	3094.2	3120.2	3164.8	3227.9	3250.1
30°	2893.9	2901.4	2875.4	2868.0	2905.1	2942.1	2938.5	2964.4	3009.0	3068.4	3083.1
32.5°	2693.6	2701.0	2697.2	2686.1	2719.5	2738.1	2749.2	2767.8	2804.9	2868.0	2882.8
35°	2504.4	2493.2	2478.4	2478.4	2511.8	2541.5	2530.4	2552.6	2589.8	2652.8	2656.5
37.5°	2270.6	2266.9	2259.5	2252.1	2289.1	2296.6	2300.2	2315.1	2348.5	2400.5	2393.0
40°	2025.8	2029.5	2025.8	2010.9	2033.1	2062.9	2059.1	2066.6	2096.2	2133.4	2122.2
42.5°	1795.8	1795.8	1795.8	1780.9	1806.9	1821.8	1829.1	1825.4	1832.9	1866.2	1851.4
45°	1576.9	1580.5	1576.9	1573.1	1576.9	1584.2	1576.9	1573.1	1573.1	1584.2	1562.0
47.5°	1387.6	1387.6	1376.5	1365.4	1376.5	1380.1	1369.0	1357.9	1354.2	1350.5	1313.4
50°	1216.9	1213.2	1209.5	1191.0	1202.1	1205.8	1191.0	1183.5	1168.8	1150.1	1105.6
52.5°	1068.5	1064.9	1061.1	1042.5	1050.0	1053.8	1038.9	1024.0	1005.5	990.6	935.0
55°	942.4	938.6	938.6	927.5	920.1	927.5	912.8	901.6	875.6	857.0	801.4
57.5°	834.8	834.8	827.4	816.2	820.0	820.0	805.1	790.2	768.0	745.8	701.2
60°	742.0	742.0	742.0	730.9	730.9	730.9	723.5	708.6	690.1	667.9	623.2
62.5°	667.9	667.9	664.1	653.0	656.8	656.8	649.2	634.5	615.9	601.0	556.5
65°	608.5	608.5	608.5	597.4	597.4	601.0	593.6	578.8	564.0	545.4	504.6
67.5°	534.2	530.5	530.5	523.1	526.9	530.5	523.1	512.0	493.5	482.4	445.2
70°	441.5	445.2	448.9	437.8	441.5	441.5	437.8	426.6	415.5	404.4	371.0
72.5°	359.9	359.9	356.1	352.5	352.5	356.1	348.8	337.6	330.2	322.8	296.9
75°	274.5	270.9	274.5	267.1	267.1	267.1	259.8	256.0	252.2	241.1	222.6
77.5°	200.4	196.6	196.6	189.2	192.9	192.9	189.2	181.8	174.4	170.6	155.9
80°	137.2	137.2	137.2	133.6	133.6	129.9	129.9	126.1	118.8	115.0	107.6
82.5°	92.8	92.8	92.8	89.0	89.0	89.0	85.4	81.6	77.9	74.2	66.8
85°	59.4	59.4	59.4	55.6	55.6	55.6	52.0	52.0	48.2	44.5	37.1
87.5°	33.4	33.4	33.4	29.6	29.6	29.6	29.6	29.6	26.0	22.2	18.5
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3866.0	3814.0	3847.5	3847.5	3836.4	3866.0	3884.5	3899.4	3895.6	3862.2	3858.6
5°	3836.4	3791.8	3828.9	3832.6	3821.5	3862.2	3888.2	3906.8	3910.5	3880.9	3884.5
7.5°	3814.0	3777.0	3825.2	3840.0	3836.4	3873.4	3903.1	3932.8	3947.6	3925.4	3929.1
10°	3802.9	3773.2	3825.2	3847.5	3851.1	3892.0	3936.5	3977.2	3995.9	3981.0	3992.1
12.5°	3788.1	3769.5	3828.9	3862.2	3877.1	3918.0	3973.6	4021.9	4051.5	4044.1	4066.4
15°	3773.2	3758.4	3828.9	3877.1	3895.6	3932.8	3995.9	4066.4	4099.8	4096.0	4125.8
17.5°	3736.1	3732.4	3806.6	3858.6	3884.5	3929.1	3988.4	4073.8	4107.1	4114.6	4151.6
20°	3676.8	3676.8	3758.4	3814.0	3843.8	3884.5	3958.8	4040.4	4081.2	4088.6	4129.4
22.5°	3595.1	3602.6	3680.5	3736.1	3780.6	3810.4	3888.2	3973.6	4010.8	4021.9	4066.4
25°	3487.6	3495.0	3569.1	3624.9	3673.1	3706.5	3780.6	3858.6	3903.1	3914.2	3947.6
27.5°	3346.6	3361.4	3431.9	3487.6	3528.4	3550.6	3628.5	3710.1	3743.6	3754.8	3788.1
30°	3183.4	3187.0	3257.5	3305.8	3346.6	3365.1	3431.9	3517.2	3543.2	3554.4	3602.6
32.5°	2983.0	2979.2	3046.0	3090.6	3124.0	3146.2	3216.8	3272.4	3298.4	3316.9	3342.9
35°	2741.9	2738.1	2786.4	2838.2	2864.2	2871.6	2942.1	3001.5	3016.4	3031.2	3064.6
37.5°	2471.0	2471.0	2511.8	2537.8	2567.5	2578.6	2612.0	2678.8	2704.8	2701.0	2727.0
40°	2185.2	2170.5	2200.1	2226.1	2233.5	2237.2	2270.6	2322.6	2341.1	2341.1	2359.6
42.5°	1884.8	1862.5	1866.2	1881.0	1888.5	1862.5	1884.8	1918.1	1907.0	1921.9	1925.6
45°	1565.8	1532.2	1517.5	1484.1	1491.5	1465.5	1450.6	1458.1	1454.4	1417.2	1424.8
47.5°	1306.0	1246.6	1220.6	1172.4	1161.2	1131.6	1113.0	1079.6	1050.0	1050.0	1031.4
50°	1087.1	1027.8	975.8	920.1	901.6	875.6	834.8	790.2	768.0	745.8	727.2
52.5°	912.8	849.6	786.5	727.2	701.2	667.9	612.1	567.6	526.9	504.6	482.4
55°	771.8	701.2	634.5	571.4	538.0	504.6	448.9	397.0	348.8	319.1	300.5
57.5°	664.1	597.4	526.9	460.0	430.4	393.2	333.9	278.2	233.8	200.4	181.8
60°	586.2	519.4	456.4	385.9	356.1	319.1	256.0	204.0	159.5	129.9	107.6
62.5°	519.4	460.0	393.2	330.2	300.5	263.4	204.0	152.1	111.2	81.6	63.1
65°	471.2	411.9	356.1	293.1	267.1	230.0	174.4	126.1	89.0	63.1	44.5
67.5°	415.5	363.6	308.0	256.0	230.0	200.4	148.4	107.6	74.2	52.0	37.1
70°	348.8	308.0	259.8	211.5	192.9	167.0	122.4	89.0	59.4	40.8	29.6
72.5°	278.2	244.9	207.8	170.6	155.9	129.9	100.1	70.5	44.5	29.6	22.2
75°	211.5	185.5	155.9	129.9	115.0	100.1	74.2	52.0	33.4	22.2	14.9
77.5°	144.8	133.6	111.2	89.0	81.6	70.5	48.2	33.4	22.2	14.9	7.4
80°	100.1	89.0	74.2	59.4	52.0	44.5	29.6	22.2	11.1	7.4	3.8
82.5°	63.1	52.0	44.5	37.1	33.4	26.0	18.5	11.1	7.4	3.8	3.8
85°	33.4	29.6	26.0	18.5	18.5	14.9	11.1	7.4	3.8	0.0	0.0
87.5°	18.5	14.9	11.1	7.4	7.4	3.8	3.8	3.8	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3903.1	3903.1	3899.4	3943.9	3892.0	3943.9	3918.0	3943.9	3906.8	3903.1	3906.8
5°	3932.8	3943.9	3947.6	3988.4	3940.2	4003.2	3981.0	4003.2	3977.2	3984.8	3995.9
7.5°	3992.1	4010.8	4007.0	4058.9	4010.8	4081.2	4066.4	4099.8	4073.8	4081.2	4096.0
10°	4058.9	4081.2	4084.9	4136.9	4092.4	4177.6	4159.1	4196.2	4174.0	4185.1	4203.6
12.5°	4136.9	4162.9	4166.5	4225.9	4177.6	4266.8	4255.6	4292.6	4274.1	4285.2	4307.5
15°	4196.2	4233.2	4240.8	4300.1	4248.1	4340.9	4333.5	4381.8	4352.0	4370.6	4389.1
17.5°	4225.9	4259.2	4274.1	4329.8	4285.2	4378.0	4370.6	4411.4	4389.1	4407.6	4430.0
20°	4207.4	4248.1	4259.2	4314.9	4270.4	4363.1	4352.0	4392.9	4370.6	4385.4	4407.6
22.5°	4140.5	4181.4	4196.2	4248.1	4207.4	4292.6	4289.0	4326.0	4296.4	4314.9	4333.5
25°	4021.9	4066.4	4073.8	4122.0	4077.5	4166.5	4159.1	4199.9	4177.6	4188.8	4214.8
27.5°	3851.1	3903.1	3914.2	3955.0	3921.6	3995.9	3995.9	4029.2	4003.2	4003.2	4029.2
30°	3647.1	3699.0	3706.5	3739.9	3710.1	3777.0	3780.6	3814.0	3773.2	3795.5	3799.2
32.5°	3398.5	3431.9	3454.1	3483.9	3439.4	3524.6	3513.5	3539.5	3517.2	3517.2	3535.8
35°	3098.0	3138.8	3149.9	3187.0	3149.9	3216.8	3216.8	3231.5	3209.2	3209.2	3239.0
37.5°	2771.5	2801.1	2804.9	2842.0	2812.2	2868.0	2864.2	2875.4	2853.1	2868.0	2868.0
40°	2389.4	2411.6	2419.0	2437.6	2433.9	2474.6	2471.0	2478.4	2467.2	2471.0	2478.4
42.5°	1944.1	1973.8	1988.6	2003.5	1981.2	2036.9	2025.8	2036.9	2033.1	2036.9	2048.0
45°	1432.1	1454.4	1465.5	1469.2	1461.8	1495.2	1521.1	1498.9	1502.6	1495.2	1510.0
47.5°	1035.1	1038.9	1031.4	1053.8	1035.1	1050.0	1057.4	1061.1	1038.9	1035.1	1050.0
50°	708.6	727.2	701.2	712.4	708.6	723.5	716.1	719.8	697.5	708.6	701.2
52.5°	471.2	467.5	460.0	463.8	456.4	456.4	456.4	463.8	448.9	441.5	434.1
55°	285.6	278.2	263.4	259.8	259.8	263.4	256.0	248.6	248.6	244.9	244.9
57.5°	167.0	155.9	148.4	144.8	137.2	133.6	129.9	129.9	122.4	122.4	122.4
60°	92.8	81.6	74.2	66.8	66.8	63.1	59.4	55.6	55.6	55.6	52.0
62.5°	48.2	40.8	33.4	29.6	29.6	26.0	22.2	22.2	22.2	22.2	18.5
65°	33.4	26.0	22.2	18.5	18.5	14.9	14.9	14.9	14.9	14.9	14.9
67.5°	26.0	22.2	18.5	14.9	14.9	14.9	11.1	11.1	11.1	11.1	11.1
70°	22.2	14.9	14.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	14.9	14.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
75°	11.1	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
80°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	0.0	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: P252218

CATALOG NUMBER: LE\_6B60D010R EC6B60709730 6LBSW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3940.2	3936.5	3940.2	3947.6	3932.8	3977.2	3955.0	3977.2
5°	4025.5	4029.2	4033.0	4044.1	4025.5	4081.2	4051.5	4084.9
7.5°	4136.9	4140.5	4144.2	4155.4	4144.2	4199.9	4166.5	4196.2
10°	4251.9	4259.2	4259.2	4277.9	4266.8	4318.6	4296.4	4333.5
12.5°	4359.5	4366.9	4374.2	4385.4	4378.0	4433.6	4415.1	4444.8
15°	4444.8	4459.6	4463.4	4478.1	4470.8	4530.1	4507.9	4537.5
17.5°	4485.6	4500.5	4500.5	4519.0	4511.6	4574.6	4545.0	4578.4
20°	4463.4	4474.5	4478.1	4496.8	4489.2	4552.4	4522.8	4563.5
22.5°	4392.9	4396.5	4400.2	4418.9	4415.1	4470.8	4444.8	4470.8
25°	4263.0	4274.1	4270.4	4285.2	4285.2	4329.8	4300.1	4322.4
27.5°	4077.5	4088.6	4088.6	4107.1	4092.4	4136.9	4107.1	4140.5
30°	3851.1	3862.2	3854.9	3869.8	3854.9	3899.4	3877.1	3888.2
32.5°	3580.4	3580.4	3584.0	3587.8	3580.4	3621.1	3598.9	3621.1
35°	3257.5	3265.0	3268.6	3272.4	3265.0	3294.6	3268.6	3283.5
37.5°	2893.9	2912.5	2908.8	2912.5	2901.4	2938.5	2916.2	2923.6
40°	2504.4	2504.4	2500.6	2508.1	2497.0	2526.6	2511.8	2519.2
42.5°	2051.8	2062.9	2048.0	2066.6	2036.9	2077.8	2062.9	2051.8
45°	1539.8	1524.9	1521.1	1524.9	1513.8	1517.5	1528.6	1521.1
47.5°	1050.0	1050.0	1042.5	1031.4	1046.2	1050.0	1035.1	1035.1
50°	704.9	704.9	697.5	693.8	701.2	697.5	690.1	701.2
52.5°	448.9	434.1	434.1	441.5	434.1	426.6	437.8	430.4
55°	244.9	237.5	237.5	244.9	237.5	237.5	233.8	241.1
57.5°	118.8	122.4	118.8	118.8	118.8	118.8	115.0	118.8
60°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
62.5°	22.2	22.2	18.5	18.5	18.5	18.5	18.5	18.5
65°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
67.5°	11.1	11.1	11.1	11.1	11.1	14.9	11.1	11.1
70°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
72.5°	11.1	11.1	14.9	14.9	14.9	14.9	14.9	14.9
75°	7.4	7.4	7.4	3.8	3.8	3.8	3.8	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)