

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: P252314

Luminaire Tested: **LE_6B60D010R EC6B60708050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7142.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

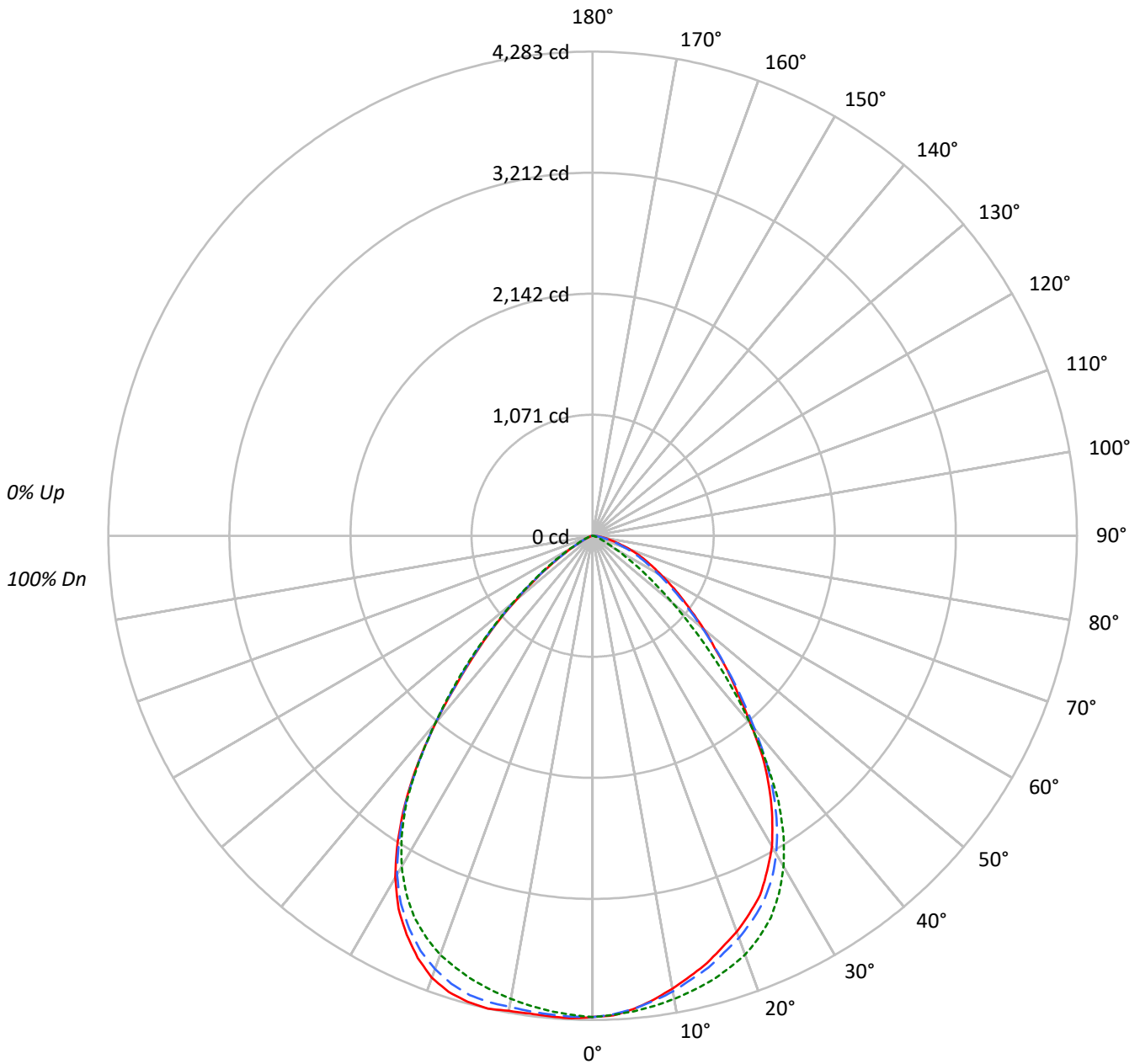
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	277755	277755	277755
5°	275110	276459	279484
10°	269433	275561	282716
15°	264285	275045	288243
20°	258812	273809	288791
25°	252423	268346	280180
30°	238995	254484	263004
35°	217038	228101	230140
40°	185235	184349	183481
45°	155604	138046	133783
50°	129936	93417	88718
55°	109364	57315	52049
60°	92576	30193	26161
65°	80181	15885	12689
70°	66686	9805	6867
75°	49255	6503	3882
80°	38660	3832	1916
85°	30765	3818	0



TEST NUMBER: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.2	5.6
10°-20°	1148.8	16.1
20°-30°	1696.4	23.8
30°-40°	1748.3	24.5
40°-50°	1207.6	16.9
50°-60°	595.2	8.3
60°-70°	241.2	3.4
70°-80°	86.0	1.2
80°-90°	17.7	0.2
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°	3246.5	45.5
0°-40°	4994.8	69.9
0°-60°	6797.6	95.2
0°-90°	7142.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7142.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4257	4257	4257	4257	4257	
5°	4201	4201	4221	4252	4268	397
15°	3913	3954	4072	4206	4268	1102
25°	3507	3574	3728	3836	3892	1603
35°	2725	2792	2864	2879	2890	1689
45°	1686	1697	1496	1476	1450	1304
55°	962	926	504	473	458	869
65°	519	468	103	82	82	516
75°	195	164	26	15	15	219
85°	41	31	5	0	0	50
90°	0	0	0	0	0	



TEST NUMBER: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4
2.5°	4247.1	4231.6	4242.0	4221.4	4247.1	4221.4	4226.5	4231.6	4226.5	4231.6	4236.8
5°	4200.8	4185.4	4200.8	4175.1	4200.8	4185.4	4185.4	4190.5	4190.5	4195.6	4200.8
7.5°	4139.1	4123.6	4139.1	4113.4	4144.2	4128.9	4128.9	4139.1	4134.0	4139.1	4149.4
10°	4067.1	4046.5	4062.0	4046.5	4077.4	4056.9	4067.1	4067.1	4067.1	4082.5	4092.9
12.5°	3990.0	3969.4	3990.0	3964.2	3995.1	3979.8	3984.9	4000.2	4005.4	4015.8	4020.9
15°	3912.9	3887.1	3897.5	3882.0	3912.9	3897.5	3902.6	3923.1	3923.1	3938.6	3954.0
17.5°	3815.1	3794.6	3815.1	3794.6	3820.4	3810.0	3820.4	3835.8	3835.8	3851.1	3866.6
20°	3727.8	3707.2	3722.6	3707.2	3738.0	3722.6	3727.8	3748.4	3753.5	3768.9	3784.4
22.5°	3619.8	3604.4	3614.6	3599.2	3630.1	3619.8	3624.9	3645.5	3650.6	3660.9	3686.6
25°	3506.6	3475.9	3491.2	3481.0	3511.9	3496.4	3506.6	3527.2	3537.5	3553.0	3573.5
27.5°	3342.1	3326.8	3337.0	3337.0	3362.8	3347.2	3352.4	3373.0	3388.4	3403.9	3429.5
30°	3172.5	3146.8	3157.0	3162.1	3182.8	3172.5	3182.8	3203.2	3208.5	3229.0	3249.6
32.5°	2956.5	2946.2	2966.8	2956.5	2966.8	2966.8	2971.9	2987.4	2997.6	3007.9	3033.6
35°	2725.1	2704.5	2725.1	2714.9	2740.5	2725.1	2740.5	2756.0	2756.0	2776.5	2792.0
37.5°	2473.1	2447.5	2457.8	2457.8	2468.0	2462.9	2462.9	2488.6	2493.8	2509.1	2524.6
40°	2175.0	2164.6	2185.2	2180.1	2185.2	2185.2	2190.4	2205.8	2216.1	2221.2	2226.4
42.5°	1907.6	1912.8	1917.9	1917.9	1917.9	1917.9	1917.9	1938.5	1933.2	1948.8	1953.9
45°	1686.5	1665.9	1676.2	1671.1	1686.5	1671.1	1686.5	1701.9	1691.6	1707.0	1696.8
47.5°	1460.2	1460.2	1460.2	1455.1	1465.4	1460.2	1470.5	1475.6	1475.6	1475.6	1470.5
50°	1280.2	1264.9	1270.0	1270.0	1275.1	1270.0	1280.2	1285.5	1285.5	1275.1	1254.6
52.5°	1105.5	1100.4	1100.4	1110.6	1110.6	1105.5	1105.5	1105.5	1105.5	1090.0	1079.8
55°	961.5	951.2	956.4	956.4	956.4	956.4	961.5	956.4	956.4	941.0	925.5
57.5°	833.0	822.6	822.6	822.6	827.9	822.6	822.6	822.6	817.5	802.1	781.5
60°	709.5	704.4	709.5	709.5	714.8	709.5	709.5	709.5	699.2	683.9	663.2
62.5°	606.8	606.8	606.8	611.9	611.9	606.8	606.8	601.6	596.5	575.9	555.2
65°	519.4	514.1	519.4	519.4	524.5	524.5	519.4	514.1	509.0	488.5	467.9
67.5°	431.9	426.8	431.9	431.9	437.0	431.9	431.9	431.9	416.5	406.2	385.6
70°	349.6	344.5	344.5	344.5	349.6	339.4	344.5	344.5	334.2	318.8	298.2
72.5°	267.4	267.4	267.4	267.4	267.4	267.4	262.2	262.2	252.0	236.5	226.2
75°	195.4	195.4	200.5	200.5	195.4	195.4	195.4	190.2	185.1	174.9	164.5
77.5°	144.0	144.0	144.0	144.0	138.9	138.9	138.9	133.6	128.5	123.4	113.1
80°	102.9	102.9	102.9	97.8	102.9	97.8	97.8	97.8	87.4	82.2	77.1
82.5°	72.0	66.9	66.9	66.9	66.9	66.9	66.9	61.8	61.8	56.5	51.4
85°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	36.0	30.9	30.9
87.5°	20.6	25.8	25.8	25.8	25.8	25.8	25.8	20.6	20.6	20.6	15.4
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: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4
2.5°	4236.8	4236.8	4247.1	4231.6	4257.4	4242.0	4236.8	4262.5	4247.1	4242.0	4252.2
5°	4200.8	4206.0	4211.1	4200.8	4226.5	4211.1	4211.1	4236.8	4226.5	4221.4	4236.8
7.5°	4154.5	4159.6	4170.0	4164.9	4185.4	4175.1	4180.2	4206.0	4195.6	4195.6	4211.1
10°	4098.0	4108.2	4118.5	4118.5	4144.2	4134.0	4134.0	4164.9	4154.5	4159.6	4180.2
12.5°	4031.1	4046.5	4062.0	4067.1	4092.9	4077.4	4082.5	4118.5	4113.4	4118.5	4139.1
15°	3959.1	3979.8	3995.1	3995.1	4026.0	4010.6	4026.0	4062.0	4051.8	4072.2	4098.0
17.5°	3876.9	3897.5	3918.0	3923.1	3954.0	3943.8	3964.2	4000.2	4000.2	4010.6	4041.4
20°	3799.8	3825.5	3835.8	3851.1	3882.0	3876.9	3887.1	3928.2	3928.2	3943.8	3974.6
22.5°	3696.9	3722.6	3743.2	3758.6	3784.4	3784.4	3799.8	3835.8	3835.8	3846.0	3876.9
25°	3583.8	3614.6	3630.1	3645.5	3671.2	3666.1	3681.5	3712.4	3717.5	3727.8	3758.6
27.5°	3439.9	3465.5	3486.1	3496.4	3532.4	3511.9	3527.2	3563.2	3558.1	3568.4	3594.1
30°	3259.9	3285.6	3306.1	3306.1	3337.0	3337.0	3352.4	3367.9	3367.9	3378.1	3398.8
32.5°	3049.0	3079.9	3079.9	3095.4	3115.9	3095.4	3115.9	3136.5	3126.1	3141.6	3157.0
35°	2807.4	2822.9	2828.0	2828.0	2843.4	2838.2	2833.1	2848.5	2838.2	2864.0	2879.4
37.5°	2514.4	2534.9	2524.6	2534.9	2529.8	2514.4	2514.4	2540.0	2519.5	2524.6	2540.0
40°	2231.5	2231.5	2226.4	2200.6	2205.8	2190.4	2185.2	2190.4	2169.9	2164.6	2185.2
42.5°	1938.5	1933.2	1917.9	1881.9	1887.0	1861.4	1840.8	1840.8	1830.5	1825.4	1830.5
45°	1676.2	1660.8	1635.1	1594.0	1583.6	1563.1	1522.0	1511.6	1496.2	1496.2	1501.4
47.5°	1434.5	1414.0	1372.9	1326.6	1300.9	1275.1	1234.0	1218.6	1192.9	1182.6	1192.9
50°	1234.0	1198.0	1146.6	1079.8	1054.0	1023.2	982.1	956.4	930.6	920.4	915.2
52.5°	1048.9	997.5	946.1	863.9	843.2	812.4	755.9	730.1	704.4	683.9	683.9
55°	889.5	843.2	771.2	694.1	663.2	632.4	575.9	539.9	514.1	503.9	493.6
57.5°	745.5	694.1	627.2	545.0	514.1	483.4	426.8	390.8	365.1	349.6	339.4
60°	627.2	570.8	503.9	431.9	395.9	365.1	308.5	272.5	246.8	231.4	221.1
62.5°	514.1	467.9	401.0	334.2	303.4	272.5	226.2	190.2	164.5	154.2	138.9
65°	431.9	385.6	323.9	267.4	241.6	210.8	169.6	138.9	118.2	102.9	92.5
67.5°	349.6	313.6	262.2	210.8	185.1	164.5	128.5	102.9	82.2	72.0	66.9
70°	277.6	241.6	200.5	159.4	144.0	123.4	97.8	72.0	61.8	51.4	46.2
72.5°	205.6	180.0	149.1	118.2	102.9	92.5	66.9	56.5	41.1	36.0	30.9
75°	149.1	128.5	108.0	82.2	72.0	66.9	51.4	36.0	30.9	25.8	20.6
77.5°	102.9	92.5	72.0	56.5	51.4	46.2	36.0	25.8	20.6	15.4	15.4
80°	66.9	56.5	46.2	36.0	36.0	30.9	20.6	15.4	15.4	10.2	10.2
82.5°	41.1	36.0	30.9	25.8	20.6	20.6	15.4	10.2	10.2	5.1	5.1
85°	25.8	20.6	15.4	15.4	10.2	10.2	10.2	5.1	5.1	5.1	5.1
87.5°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	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: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4
2.5°	4252.2	4252.2	4262.5	4247.1	4257.4	4257.4	4267.6	4247.1	4257.4	4262.5	4272.8
5°	4231.6	4236.8	4247.1	4242.0	4247.1	4247.1	4257.4	4231.6	4252.2	4252.2	4267.6
7.5°	4211.1	4211.1	4221.4	4216.2	4226.5	4231.6	4242.0	4221.4	4242.0	4242.0	4257.4
10°	4185.4	4185.4	4200.8	4195.6	4211.1	4216.2	4231.6	4211.1	4231.6	4236.8	4252.2
12.5°	4149.4	4154.5	4170.0	4170.0	4185.4	4195.6	4211.1	4200.8	4226.5	4231.6	4252.2
15°	4108.2	4118.5	4139.1	4134.0	4149.4	4164.9	4185.4	4170.0	4206.0	4216.2	4236.8
17.5°	4056.9	4067.1	4082.5	4082.5	4098.0	4108.2	4134.0	4123.6	4154.5	4159.6	4185.4
20°	3979.8	3995.1	4015.8	4010.6	4026.0	4036.2	4056.9	4046.5	4077.4	4087.8	4113.4
22.5°	3887.1	3897.5	3912.9	3912.9	3928.2	3938.6	3959.1	3943.8	3974.6	3979.8	4000.2
25°	3763.8	3774.0	3784.4	3789.5	3804.9	3810.0	3820.4	3810.0	3835.8	3840.9	3866.6
27.5°	3604.4	3609.5	3624.9	3624.9	3635.2	3640.4	3655.8	3635.2	3671.2	3671.2	3686.6
30°	3414.1	3409.0	3429.5	3419.2	3429.5	3429.5	3445.0	3434.8	3460.4	3450.1	3465.5
32.5°	3162.1	3172.5	3172.5	3162.1	3182.8	3177.6	3177.6	3167.4	3182.8	3187.9	3198.1
35°	2869.1	2884.5	2884.5	2889.6	2894.8	2879.4	2884.5	2853.6	2879.4	2884.5	2889.6
37.5°	2550.2	2534.9	2545.1	2529.8	2555.5	2524.6	2524.6	2504.0	2524.6	2524.6	2529.8
40°	2185.2	2180.1	2190.4	2180.1	2175.0	2169.9	2159.5	2144.1	2164.6	2154.4	2169.9
42.5°	1840.8	1835.6	1835.6	1825.4	1820.1	1820.1	1809.9	1799.6	1794.5	1794.5	1820.1
45°	1486.0	1496.2	1486.0	1480.9	1491.1	1480.9	1486.0	1465.4	1475.6	1465.4	1475.6
47.5°	1187.8	1192.9	1182.6	1172.4	1187.8	1172.4	1172.4	1156.9	1177.5	1177.5	1167.1
50°	920.4	915.2	905.0	915.2	910.1	910.1	910.1	894.6	905.0	889.5	899.8
52.5°	678.8	673.6	673.6	668.4	673.6	668.4	668.4	663.2	663.2	658.1	663.2
55°	493.6	488.5	478.1	478.1	478.1	483.4	478.1	473.0	473.0	467.9	473.0
57.5°	334.2	323.9	323.9	323.9	323.9	318.8	318.8	313.6	318.8	313.6	318.8
60°	216.0	216.0	205.6	205.6	205.6	205.6	205.6	200.5	205.6	205.6	205.6
62.5°	133.6	133.6	128.5	123.4	128.5	123.4	123.4	123.4	128.5	123.4	128.5
65°	87.4	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
67.5°	61.8	56.5	56.5	56.5	56.5	56.5	56.5	51.4	56.5	56.5	56.5
70°	41.1	41.1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
72.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
75°	20.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
77.5°	15.4	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	5.1	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	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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: P252314

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4	4257.4
2.5°	4257.4	4262.5	4252.2	4257.4	4247.1	4257.4	4262.5	4272.8
5°	4247.1	4252.2	4242.0	4252.2	4242.0	4252.2	4257.4	4267.6
7.5°	4236.8	4247.1	4236.8	4247.1	4236.8	4247.1	4252.2	4262.5
10°	4236.8	4252.2	4242.0	4257.4	4242.0	4252.2	4262.5	4267.6
12.5°	4236.8	4252.2	4247.1	4257.4	4252.2	4262.5	4272.8	4283.1
15°	4226.5	4242.0	4231.6	4247.1	4242.0	4247.1	4267.6	4267.6
17.5°	4170.0	4185.4	4185.4	4195.6	4195.6	4211.1	4221.4	4231.6
20°	4098.0	4113.4	4108.2	4123.6	4123.6	4139.1	4149.4	4159.6
22.5°	3990.0	4010.6	4005.4	4020.9	4015.8	4026.0	4046.5	4041.4
25°	3851.1	3876.9	3871.8	3882.0	3876.9	3876.9	3887.1	3892.2
27.5°	3681.5	3696.9	3691.8	3702.0	3691.8	3702.0	3712.4	3717.5
30°	3460.4	3470.6	3465.5	3470.6	3465.5	3475.9	3481.0	3491.2
32.5°	3193.0	3208.5	3193.0	3203.2	3198.1	3198.1	3218.8	3208.5
35°	2874.2	2879.4	2884.5	2884.5	2874.2	2879.4	2889.6	2889.6
37.5°	2519.5	2545.1	2514.4	2529.8	2524.6	2524.6	2524.6	2540.0
40°	2149.2	2154.4	2144.1	2144.1	2144.1	2139.0	2159.5	2154.4
42.5°	1799.6	1804.8	1799.6	1784.1	1789.4	1789.4	1804.8	1784.1
45°	1460.2	1470.5	1465.4	1465.4	1455.1	1455.1	1460.2	1450.0
47.5°	1156.9	1167.1	1151.8	1156.9	1146.6	1156.9	1151.8	1162.0
50°	879.2	889.5	884.4	889.5	889.5	879.2	894.6	874.1
52.5°	658.1	663.2	658.1	653.0	647.9	647.9	658.1	653.0
55°	467.9	462.8	462.8	462.8	467.9	467.9	462.8	457.6
57.5°	313.6	313.6	308.5	308.5	313.6	303.4	308.5	303.4
60°	200.5	200.5	200.5	200.5	195.4	200.5	200.5	200.5
62.5°	123.4	123.4	123.4	123.4	123.4	123.4	123.4	123.4
65°	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
67.5°	51.4	56.5	56.5	56.5	51.4	51.4	51.4	51.4
70°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
72.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
75°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
77.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	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)