

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: P252730

Luminaire Tested: **LE_6B60D010R EC6B60708050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE 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: 7215.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

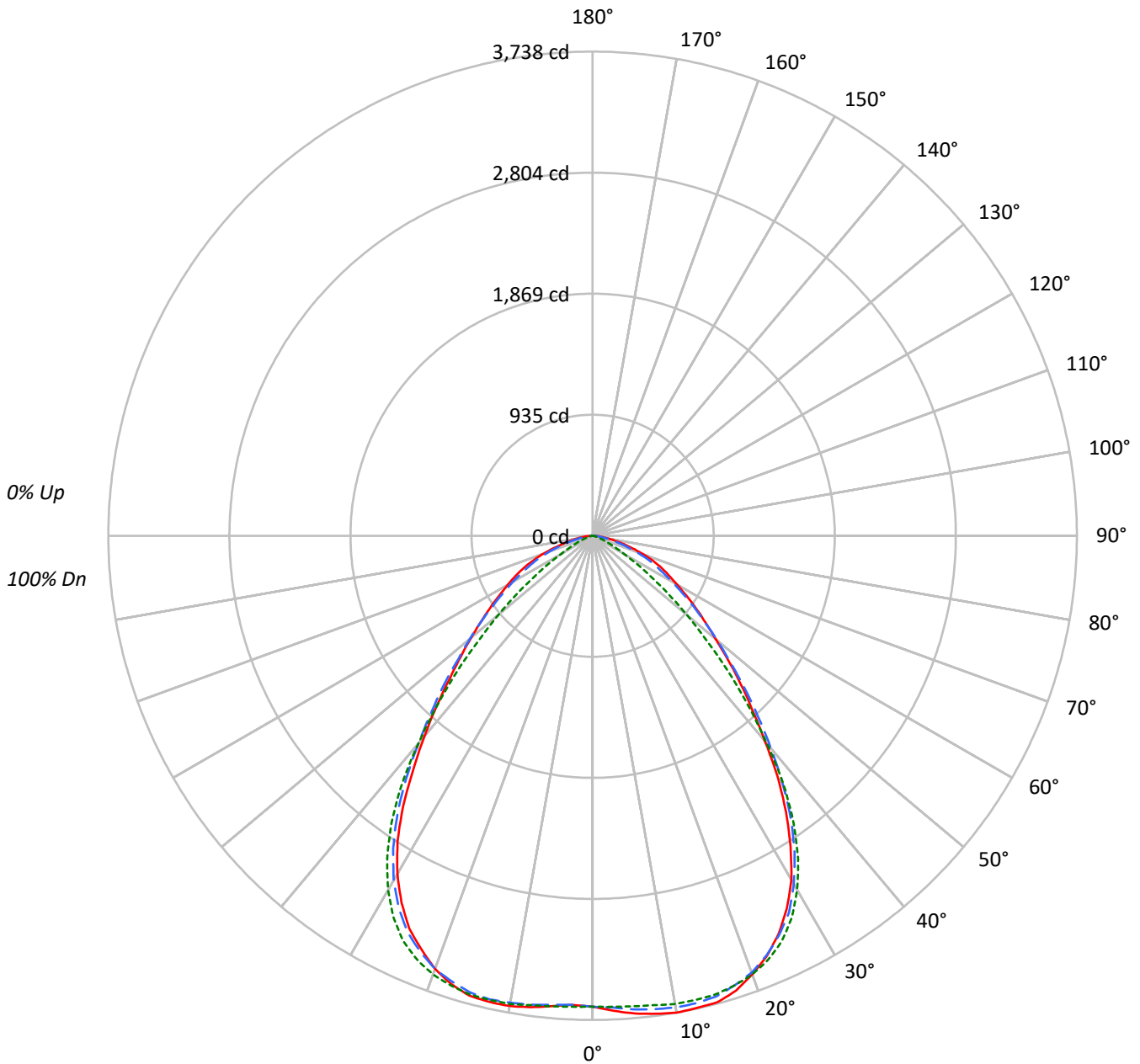
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	237156	237156	237156
5°	242437	238737	238737
10°	247625	243193	244220
15°	251770	247602	248298
20°	250231	250231	247023
25°	244274	248716	240941
30°	231236	237820	226979
35°	207202	215397	203108
40°	176029	178218	171651
45°	148961	136145	143738
50°	125764	96016	124191
55°	110536	61990	109364
60°	97939	36900	98618
65°	90478	22230	90478
70°	78475	12761	76491
75°	62211	7789	58329
80°	46362	5786	44408
85°	42293	3818	38476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	4.9
10°-20°	1035.8	14.4
20°-30°	1557.8	21.6
30°-40°	1637.8	22.7
40°-50°	1223.5	17.0
50°-60°	761.7	10.6
60°-70°	433.2	6.0
70°-80°	178.4	2.5
80°-90°	36.9	0.5
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°	2943.5	40.8
0°-40°	4581.3	63.5
0°-60°	6566.5	91.0
0°-90°	7215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7215.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3635	3635	3635	3635	3635	
5°	3702	3671	3645	3635	3645	354
15°	3728	3681	3666	3650	3676	1048
25°	3393	3404	3455	3378	3347	1553
35°	2602	2668	2704	2627	2550	1614
45°	1614	1650	1476	1620	1558	1251
55°	972	951	545	936	962	874
65°	586	524	144	524	586	577
75°	247	195	31	190	231	268
85°	56	36	5	31	51	63
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°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3671.0	3665.9	3671.0	3660.8	3655.6	3655.6	3660.8	3650.5	3645.4	3650.5	3645.4
5°	3701.9	3691.6	3696.8	3691.6	3681.4	3681.4	3686.5	3671.0	3671.0	3676.2	3671.0
7.5°	3722.5	3722.5	3722.5	3712.2	3707.0	3701.9	3712.2	3696.8	3691.6	3691.6	3686.5
10°	3737.9	3732.8	3737.9	3727.6	3717.4	3712.2	3722.5	3712.2	3701.9	3712.2	3696.8
12.5°	3732.8	3732.8	3732.8	3727.6	3717.4	3712.2	3722.5	3707.0	3701.9	3707.0	3696.8
15°	3727.6	3712.2	3717.4	3712.2	3696.8	3696.8	3701.9	3686.5	3676.2	3691.6	3681.4
17.5°	3681.4	3671.0	3676.2	3665.9	3655.6	3650.5	3655.6	3650.5	3640.2	3650.5	3640.2
20°	3604.2	3604.2	3609.4	3599.1	3588.8	3583.6	3594.0	3583.6	3573.4	3588.8	3588.8
22.5°	3511.6	3511.6	3511.6	3506.5	3501.4	3501.4	3501.4	3496.2	3491.1	3501.4	3506.5
25°	3393.4	3388.2	3393.4	3398.5	3393.4	3388.2	3393.4	3393.4	3383.1	3403.8	3403.8
27.5°	3244.4	3244.4	3254.6	3249.5	3249.5	3244.4	3254.6	3254.6	3249.5	3264.9	3280.2
30°	3069.5	3059.2	3069.5	3069.5	3074.6	3074.6	3079.8	3079.8	3079.8	3095.2	3105.5
32.5°	2843.2	2848.4	2863.9	2858.8	2853.5	2869.0	2869.0	2879.2	2884.4	2894.8	2899.9
35°	2601.6	2606.8	2606.8	2611.9	2622.1	2611.9	2637.6	2632.5	2637.6	2658.1	2668.5
37.5°	2344.5	2329.1	2354.9	2344.5	2349.6	2349.6	2360.0	2365.1	2380.5	2406.2	2406.2
40°	2066.9	2072.0	2082.4	2087.5	2092.6	2092.6	2092.6	2108.0	2113.1	2144.0	2138.9
42.5°	1825.2	1825.2	1835.5	1840.6	1840.6	1840.6	1840.6	1856.1	1866.4	1876.6	1887.0
45°	1614.5	1599.0	1609.2	1609.2	1619.6	1614.5	1624.8	1635.0	1640.1	1655.6	1650.4
47.5°	1413.9	1408.8	1413.9	1419.1	1413.9	1419.1	1424.2	1429.4	1434.5	1434.5	1434.5
50°	1239.1	1239.1	1244.2	1249.4	1249.4	1249.4	1249.4	1254.5	1254.5	1264.9	1254.5
52.5°	1095.1	1100.2	1100.2	1095.1	1100.2	1100.2	1105.4	1105.4	1100.2	1100.2	1084.9
55°	971.8	966.6	971.8	966.6	971.8	971.8	966.6	966.6	961.5	956.4	951.1
57.5°	853.5	853.5	853.5	853.5	848.4	853.5	848.4	843.2	843.2	832.9	817.5
60°	750.6	750.6	750.6	750.6	750.6	745.5	750.6	745.5	735.2	725.0	704.4
62.5°	663.2	658.1	663.2	658.1	658.1	653.0	653.0	647.9	637.5	627.2	606.8
65°	586.1	591.2	586.1	586.1	581.0	575.9	575.9	570.8	555.2	545.0	524.4
67.5°	503.9	498.8	498.8	498.8	493.6	493.6	493.6	483.2	473.0	457.6	437.0
70°	411.4	411.4	411.4	406.1	406.1	401.0	401.0	395.9	385.6	375.4	349.6
72.5°	323.9	323.9	323.9	313.6	318.8	313.6	313.6	303.4	298.2	282.8	267.4
75°	246.8	246.8	241.6	241.6	236.5	231.4	231.4	226.2	221.1	210.8	195.4
77.5°	180.0	180.0	180.0	174.8	169.6	164.5	164.5	159.4	154.2	149.1	138.9
80°	123.4	123.4	123.4	123.4	118.2	113.1	113.1	108.0	108.0	102.9	92.5
82.5°	82.2	82.2	82.2	82.2	77.1	77.1	77.1	72.0	66.9	66.9	56.5
85°	56.5	56.5	51.4	51.4	51.4	51.4	46.2	46.2	41.1	36.0	36.0
87.5°	30.9	30.9	30.9	30.9	25.8	25.8	25.8	25.8	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3660.8	3660.8	3655.6	3640.2	3645.4	3640.2	3645.4	3640.2	3624.8	3640.2	3624.8
5°	3681.4	3686.5	3676.2	3655.6	3660.8	3655.6	3655.6	3650.5	3635.1	3645.4	3635.1
7.5°	3701.9	3696.8	3691.6	3671.0	3676.2	3671.0	3671.0	3660.8	3645.4	3655.6	3640.2
10°	3712.2	3712.2	3701.9	3681.4	3681.4	3676.2	3681.4	3676.2	3655.6	3671.0	3660.8
12.5°	3712.2	3707.0	3707.0	3681.4	3686.5	3681.4	3686.5	3676.2	3660.8	3671.0	3665.9
15°	3696.8	3696.8	3691.6	3665.9	3671.0	3671.0	3676.2	3665.9	3650.5	3665.9	3655.6
17.5°	3665.9	3665.9	3660.8	3640.2	3650.5	3650.5	3655.6	3645.4	3629.9	3640.2	3640.2
20°	3604.2	3609.4	3609.4	3594.0	3604.2	3604.2	3609.4	3604.2	3599.1	3604.2	3594.0
22.5°	3532.2	3542.5	3542.5	3527.1	3537.4	3537.4	3552.8	3547.6	3537.4	3542.5	3537.4
25°	3424.2	3434.5	3444.9	3434.5	3444.9	3444.9	3460.2	3455.1	3444.9	3455.1	3439.8
27.5°	3300.9	3306.0	3316.2	3306.0	3321.4	3316.2	3331.8	3326.6	3311.1	3326.6	3321.4
30°	3126.0	3146.6	3162.0	3146.6	3162.0	3162.0	3172.4	3167.2	3162.0	3156.9	3156.9
32.5°	2930.6	2951.2	2951.2	2946.1	2956.4	2956.4	2961.5	2951.2	2946.1	2951.2	2956.4
35°	2689.0	2699.2	2709.6	2704.5	2709.6	2714.8	2709.6	2714.8	2699.2	2704.5	2704.5
37.5°	2426.8	2437.1	2437.1	2421.6	2432.0	2432.0	2421.6	2421.6	2411.4	2421.6	2401.1
40°	2149.1	2138.9	2144.0	2133.8	2123.5	2123.5	2118.4	2097.8	2087.5	2092.6	2097.8
42.5°	1876.6	1876.6	1861.2	1835.5	1809.9	1809.9	1794.4	1784.1	1763.5	1773.9	1768.8
45°	1645.2	1619.6	1599.0	1557.9	1542.5	1532.1	1506.5	1480.8	1470.5	1475.6	1470.5
47.5°	1424.2	1403.6	1352.2	1295.6	1280.2	1264.9	1234.0	1203.1	1192.9	1182.5	1182.5
50°	1239.1	1203.1	1146.6	1084.9	1059.1	1033.5	992.4	961.5	940.9	946.0	946.0
52.5°	1069.5	1028.2	961.5	884.4	853.5	822.6	786.6	750.6	735.2	730.1	730.1
55°	920.4	874.0	807.2	719.9	694.1	658.1	611.9	570.8	550.1	545.0	555.2
57.5°	786.6	745.5	668.4	581.0	550.1	514.1	467.9	431.9	406.1	401.0	406.1
60°	678.6	622.1	555.2	473.0	431.9	401.0	349.6	318.8	293.1	282.8	287.9
62.5°	570.8	519.2	452.5	370.2	339.4	308.5	262.2	226.2	205.6	200.5	205.6
65°	488.5	437.0	375.4	303.4	272.5	241.6	200.5	164.5	149.1	144.0	149.1
67.5°	406.1	359.9	308.5	241.6	216.0	190.2	149.1	123.4	102.9	97.8	102.9
70°	329.0	287.9	236.5	190.2	164.5	144.0	113.1	87.4	72.0	66.9	72.0
72.5°	246.8	216.0	180.0	138.9	123.4	108.0	82.2	61.8	51.4	46.2	51.4
75°	180.0	154.2	128.5	97.8	87.4	77.1	56.5	41.1	36.0	30.9	36.0
77.5°	123.4	108.0	87.4	66.9	56.5	51.4	36.0	30.9	25.8	20.6	20.6
80°	82.2	72.0	56.5	46.2	41.1	36.0	25.8	20.6	15.4	15.4	15.4
82.5°	51.4	41.1	36.0	25.8	20.6	20.6	15.4	10.2	10.2	10.2	10.2
85°	30.9	25.8	20.6	15.4	10.2	10.2	5.1	5.1	5.1	5.1	5.1
87.5°	15.4	10.2	10.2	5.1	5.1	5.1	5.1	5.1	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3635.1	3624.8	3624.8	3629.9	3635.1	3640.2	3629.9	3624.8	3624.8	3640.2	3629.9
5°	3635.1	3629.9	3629.9	3629.9	3640.2	3645.4	3635.1	3629.9	3635.1	3650.5	3645.4
7.5°	3650.5	3640.2	3645.4	3645.4	3650.5	3660.8	3650.5	3645.4	3650.5	3665.9	3655.6
10°	3660.8	3650.5	3655.6	3650.5	3665.9	3671.0	3660.8	3655.6	3660.8	3681.4	3676.2
12.5°	3665.9	3660.8	3660.8	3655.6	3671.0	3676.2	3665.9	3660.8	3665.9	3681.4	3676.2
15°	3655.6	3650.5	3650.5	3650.5	3660.8	3671.0	3655.6	3650.5	3650.5	3665.9	3660.8
17.5°	3635.1	3624.8	3624.8	3624.8	3629.9	3635.1	3619.6	3614.5	3609.4	3624.8	3619.6
20°	3599.1	3588.8	3578.5	3578.5	3583.6	3583.6	3573.4	3558.0	3558.0	3563.1	3552.8
22.5°	3532.2	3527.1	3516.9	3511.6	3522.0	3516.9	3496.2	3480.9	3475.6	3480.9	3470.5
25°	3439.8	3429.4	3424.2	3419.1	3424.2	3419.1	3398.5	3378.0	3378.0	3378.0	3362.6
27.5°	3311.1	3300.9	3295.8	3295.8	3300.9	3290.6	3270.0	3249.5	3239.1	3239.1	3223.8
30°	3146.6	3146.6	3141.5	3136.4	3131.2	3131.2	3100.4	3079.8	3069.5	3074.6	3064.4
32.5°	2946.1	2941.0	2935.9	2920.4	2925.5	2920.4	2894.8	2879.2	2863.9	2853.5	2848.4
35°	2689.0	2689.0	2683.9	2683.9	2683.9	2678.8	2653.0	2637.6	2627.4	2622.1	2606.8
37.5°	2406.2	2401.1	2396.0	2396.0	2396.0	2396.0	2380.5	2365.1	2365.1	2360.0	2349.6
40°	2087.5	2092.6	2097.8	2092.6	2108.0	2123.5	2102.9	2092.6	2087.5	2102.9	2082.4
42.5°	1779.0	1773.9	1799.5	1804.6	1804.6	1830.4	1835.5	1840.6	1835.5	1845.9	1845.9
45°	1480.8	1475.6	1501.4	1511.6	1537.4	1568.1	1583.6	1609.2	1619.6	1629.9	1619.6
47.5°	1198.0	1218.5	1239.1	1264.9	1285.4	1336.8	1367.6	1393.4	1403.6	1419.1	1419.1
50°	961.5	982.0	1018.0	1038.6	1064.2	1126.0	1177.4	1213.4	1234.0	1249.4	1244.2
52.5°	740.4	776.4	822.6	843.2	879.2	951.1	1007.8	1048.9	1074.6	1090.0	1095.1
55°	570.8	601.5	647.9	678.6	714.6	791.8	863.8	910.0	935.8	956.4	966.6
57.5°	421.6	457.6	509.0	534.8	575.9	663.2	725.0	781.5	812.4	838.1	843.2
60°	308.5	344.5	390.8	421.6	462.8	550.1	622.1	673.5	709.5	730.1	740.4
62.5°	221.1	257.1	303.4	334.2	370.2	447.4	519.2	570.8	606.8	632.4	647.9
65°	159.4	195.4	241.6	267.4	298.2	370.2	437.0	488.5	524.4	555.2	565.6
67.5°	118.2	144.0	185.1	210.8	241.6	298.2	354.8	401.0	437.0	462.8	473.0
70°	87.4	108.0	144.0	159.4	180.0	231.4	277.6	318.8	349.6	370.2	380.5
72.5°	61.8	77.1	102.9	118.2	133.6	174.8	210.8	241.6	262.2	282.8	293.1
75°	41.1	51.4	72.0	82.2	92.5	123.4	149.1	174.8	190.2	205.6	210.8
77.5°	25.8	36.0	51.4	56.5	66.9	82.2	102.9	118.2	128.5	138.9	149.1
80°	15.4	20.6	30.9	36.0	41.1	56.5	66.9	77.1	87.4	97.8	102.9
82.5°	10.2	15.4	20.6	20.6	25.8	30.9	41.1	51.4	56.5	61.8	66.9
85°	5.1	5.1	10.2	10.2	15.4	15.4	20.6	25.8	30.9	36.0	41.1
87.5°	5.1	5.1	5.1	5.1	10.2	10.2	15.4	15.4	15.4	20.6	20.6
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: P252730

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3619.6	3635.1	3619.6	3629.9	3624.8	3624.8	3619.6	3624.8
5°	3635.1	3655.6	3635.1	3650.5	3640.2	3640.2	3640.2	3645.4
7.5°	3650.5	3671.0	3655.6	3671.0	3665.9	3660.8	3660.8	3671.0
10°	3665.9	3681.4	3671.0	3686.5	3681.4	3676.2	3676.2	3686.5
12.5°	3665.9	3686.5	3676.2	3691.6	3686.5	3681.4	3681.4	3686.5
15°	3650.5	3676.2	3660.8	3676.2	3671.0	3665.9	3665.9	3676.2
17.5°	3604.2	3624.8	3614.5	3624.8	3624.8	3619.6	3624.8	3629.9
20°	3542.5	3558.0	3547.6	3558.0	3558.0	3547.6	3552.8	3558.0
22.5°	3455.1	3470.5	3460.2	3470.5	3465.4	3460.2	3460.2	3455.1
25°	3347.1	3367.8	3352.2	3362.6	3352.2	3342.0	3342.0	3347.1
27.5°	3213.5	3228.9	3208.4	3218.6	3208.4	3198.0	3198.0	3192.9
30°	3038.6	3043.8	3028.4	3038.6	3028.4	3023.2	3013.0	3013.0
32.5°	2827.9	2833.0	2817.6	2817.6	2807.2	2807.2	2786.8	2802.1
35°	2581.0	2586.2	2581.0	2575.9	2560.5	2555.4	2550.2	2550.2
37.5°	2324.0	2324.0	2308.5	2303.4	2293.1	2282.9	2288.0	2272.5
40°	2061.8	2056.6	2041.2	2046.4	2041.2	2025.8	2020.6	2015.5
42.5°	1815.0	1815.0	1799.5	1804.6	1794.4	1789.2	1773.9	1779.0
45°	1599.0	1599.0	1583.6	1583.6	1578.5	1563.0	1568.1	1557.9
47.5°	1403.6	1403.6	1398.5	1398.5	1383.1	1377.9	1377.9	1377.9
50°	1234.0	1234.0	1234.0	1234.0	1228.9	1223.6	1218.5	1223.6
52.5°	1090.0	1100.2	1095.1	1095.1	1090.0	1084.9	1079.8	1079.8
55°	961.5	966.6	966.6	971.8	966.6	961.5	966.6	961.5
57.5°	848.4	858.6	858.6	858.6	858.6	858.6	853.5	848.4
60°	750.6	755.8	755.8	761.0	761.0	761.0	755.8	755.8
62.5°	653.0	663.2	668.4	668.4	673.5	668.4	668.4	668.4
65°	575.9	586.1	591.2	586.1	591.2	591.2	586.1	586.1
67.5°	483.2	493.6	493.6	493.6	493.6	498.8	493.6	493.6
70°	390.8	401.0	395.9	401.0	401.0	401.0	401.0	401.0
72.5°	298.2	303.4	308.5	308.5	313.6	308.5	308.5	308.5
75°	216.0	226.2	226.2	226.2	226.2	231.4	231.4	231.4
77.5°	154.2	159.4	159.4	164.5	164.5	164.5	164.5	169.6
80°	108.0	108.0	113.1	113.1	118.2	118.2	118.2	118.2
82.5°	72.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1
85°	41.1	46.2	46.2	46.2	46.2	51.4	51.4	51.4
87.5°	25.8	25.8	25.8	25.8	25.8	25.8	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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













(END OF REPORT)