

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: P252418

Luminaire Tested: **LE_6B60D010R EC6B60708050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6988.7 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

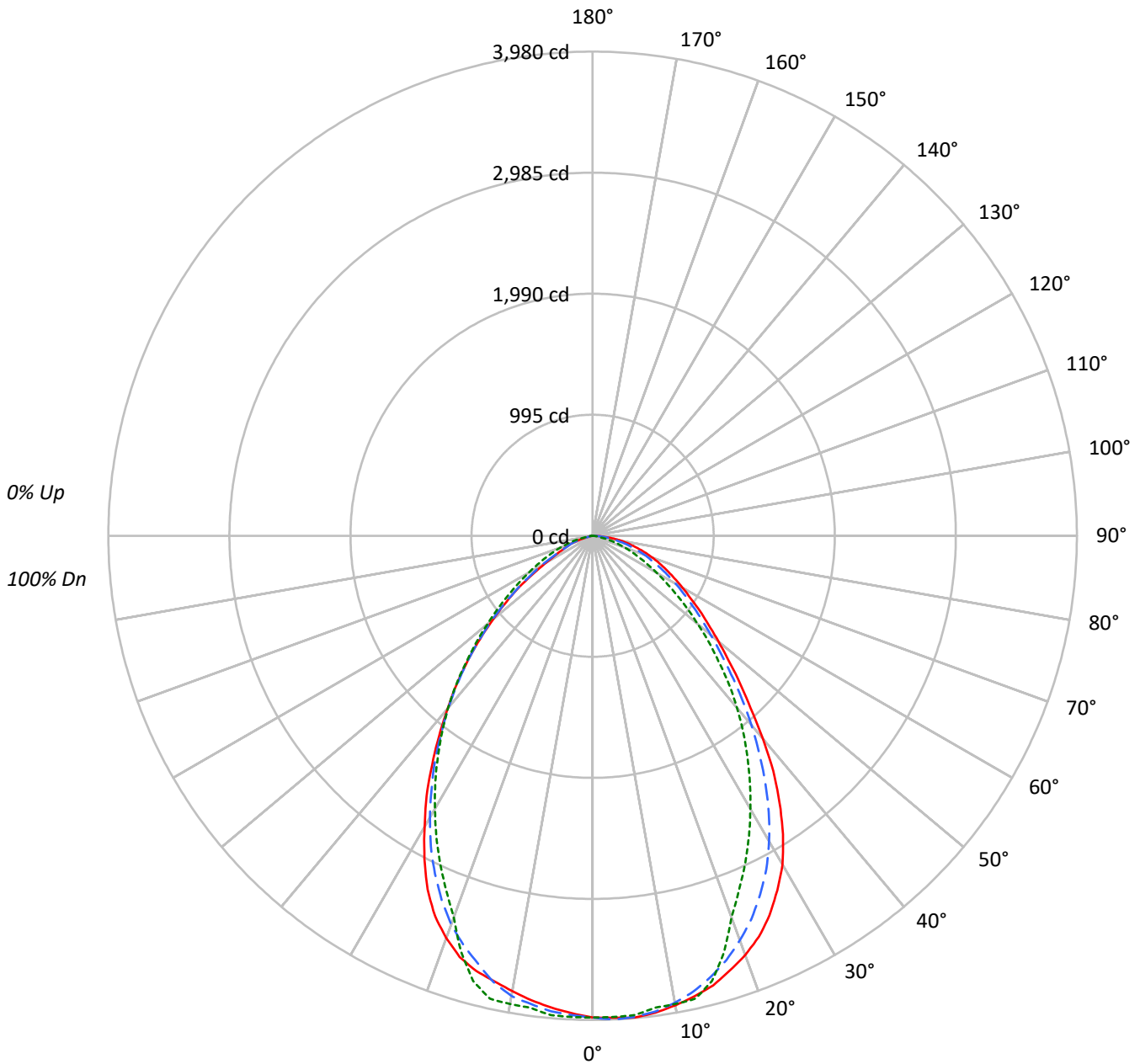
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68								
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60								
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54								
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48								
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44								
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	258346	258346	258346
5°	260335	258999	254952
10°	259609	258927	251772
15°	258423	255991	250095
20°	254577	231722	244219
25°	247665	213608	231000
30°	235161	195257	208041
35°	213398	176531	183086
40°	185269	157233	157676
45°	158002	135222	133802
50°	136756	114305	108043
55°	122263	95340	83647
60°	111405	79189	56368
65°	104016	65114	42082
70°	99076	52991	35308
75°	93316	37584	11646
80°	88892	19311	3832
85°	73208	11528	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	5.4
10°-20°	1045.9	15.0
20°-30°	1443.6	20.7
30°-40°	1469.1	21.0
40°-50°	1180.6	16.9
50°-60°	785.0	11.2
60°-70°	447.3	6.4
70°-80°	200.9	2.9
80°-90°	42.3	0.6
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°	2863.4	41.0
0°-40°	4332.5	62.0
0°-60°	6298.2	90.1
0°-90°	6988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6988.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3960	3960	3960	3960	3960	
5°	3975	3970	3955	3924	3893	377
15°	3826	3754	3790	3641	3703	1077
25°	3440	3255	2967	3065	3209	1577
35°	2679	2474	2216	2258	2299	1665
45°	1712	1610	1466	1450	1450	1328
55°	1075	1003	838	746	735	966
65°	674	602	422	273	273	671
75°	370	308	149	62	46	395
85°	98	67	15	5	0	116
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°	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9
2.5°	3965.0	3985.6	3980.5	3975.2	3980.5	3975.2	3965.0	3965.0	3954.8	3954.8	3980.5
5°	3975.2	3985.6	3980.5	3975.2	3975.2	3980.5	3959.9	3959.9	3949.6	3944.5	3970.1
7.5°	3954.8	3970.1	3959.9	3959.9	3954.8	3959.9	3939.4	3939.4	3923.9	3918.8	3944.5
10°	3918.8	3939.4	3929.0	3929.0	3929.0	3918.8	3908.5	3903.4	3887.9	3882.8	3898.1
12.5°	3877.6	3893.0	3887.9	3877.6	3877.6	3877.6	3857.0	3851.9	3831.4	3821.0	3836.5
15°	3826.1	3836.5	3831.4	3826.1	3815.9	3815.9	3795.4	3785.0	3764.5	3743.9	3754.1
17.5°	3749.0	3764.5	3754.1	3749.0	3733.6	3733.6	3713.0	3702.8	3671.9	3651.4	3656.5
20°	3666.8	3671.9	3666.8	3656.5	3641.0	3635.9	3615.4	3594.8	3569.0	3543.4	3538.1
22.5°	3569.0	3574.1	3558.8	3548.5	3533.0	3527.9	3502.1	3486.8	3445.6	3414.8	3409.6
25°	3440.5	3445.6	3445.6	3419.9	3409.6	3399.4	3373.6	3347.9	3311.9	3270.8	3255.4
27.5°	3286.2	3301.6	3291.4	3265.6	3245.0	3239.9	3214.2	3193.6	3147.4	3111.4	3090.8
30°	3121.6	3116.5	3111.4	3095.9	3065.0	3059.9	3034.2	3008.5	2972.5	2926.2	2900.5
32.5°	2910.8	2910.8	2905.6	2890.2	2859.4	2849.0	2828.5	2797.6	2756.5	2720.5	2694.8
35°	2679.4	2684.5	2679.4	2648.5	2627.9	2617.6	2607.4	2571.4	2535.4	2494.2	2473.6
37.5°	2437.6	2422.2	2427.4	2401.6	2375.9	2386.2	2355.4	2339.9	2298.8	2267.9	2247.4
40°	2175.4	2185.6	2165.1	2154.8	2139.4	2124.0	2124.0	2098.2	2077.6	2041.6	2031.4
42.5°	1918.2	1933.6	1928.5	1918.2	1897.6	1902.8	1877.1	1866.8	1841.1	1825.6	1810.2
45°	1712.5	1712.5	1712.5	1702.2	1697.1	1686.8	1671.4	1656.0	1640.5	1620.0	1609.6
47.5°	1512.0	1512.0	1517.1	1506.9	1496.5	1491.4	1481.1	1481.1	1455.4	1434.9	1424.5
50°	1347.4	1347.4	1347.4	1337.1	1326.9	1326.9	1316.5	1306.2	1290.9	1275.4	1265.1
52.5°	1198.2	1198.2	1198.2	1188.0	1182.9	1177.6	1172.5	1167.4	1146.9	1136.5	1126.2
55°	1074.9	1069.6	1069.6	1064.5	1054.2	1054.2	1049.1	1038.9	1023.4	1008.0	1002.9
57.5°	951.4	956.5	951.4	951.4	941.1	941.1	930.9	925.6	910.2	900.0	889.8
60°	853.8	853.8	853.8	848.5	838.2	843.4	833.1	828.0	812.5	797.1	786.9
62.5°	756.0	761.1	761.1	756.0	745.8	745.8	740.5	735.4	720.0	704.5	689.1
65°	673.8	673.8	673.8	668.5	663.4	663.4	658.2	653.1	637.8	617.1	601.8
67.5°	596.5	591.4	591.4	591.4	586.2	581.1	576.0	570.9	555.4	540.0	519.4
70°	519.4	519.4	519.4	514.2	504.0	509.1	504.0	498.9	483.4	468.0	452.5
72.5°	447.4	447.4	442.2	437.1	437.1	432.0	432.0	426.9	411.4	390.9	375.4
75°	370.2	370.2	370.2	370.2	360.0	365.1	354.9	349.8	339.4	324.0	308.5
77.5°	303.4	303.4	303.4	298.2	293.1	293.1	288.0	282.9	267.4	257.1	236.6
80°	236.6	236.6	236.6	236.6	231.4	226.2	221.1	216.0	205.8	190.2	174.9
82.5°	174.9	174.9	169.8	169.8	169.8	164.6	159.4	154.2	144.0	133.8	123.4
85°	97.8	102.9	102.9	92.6	97.8	92.6	92.6	82.2	82.2	72.0	66.9
87.5°	36.0	30.9	30.9	30.9	30.9	30.9	30.9	25.8	25.8	25.8	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9
2.5°	3959.9	3954.8	3975.2	3975.2	3944.5	3959.9	3965.0	3954.8	3954.8	3959.9	3944.5
5°	3949.6	3939.4	3959.9	3965.0	3934.1	3949.6	3954.8	3944.5	3949.6	3954.8	3934.1
7.5°	3913.6	3913.6	3929.0	3934.1	3903.4	3918.8	3918.8	3908.5	3913.6	3913.6	3898.1
10°	3877.6	3862.1	3877.6	3877.6	3851.9	3857.0	3867.4	3862.1	3882.8	3908.5	3908.5
12.5°	3810.8	3795.4	3821.0	3821.0	3805.6	3826.1	3851.9	3867.4	3887.9	3898.1	3867.4
15°	3728.5	3733.6	3779.9	3815.9	3800.5	3831.4	3857.0	3846.8	3821.0	3790.1	3743.9
17.5°	3620.5	3605.0	3646.1	3666.8	3646.1	3656.5	3677.0	3656.5	3615.4	3589.6	3527.9
20°	3497.0	3455.9	3455.9	3445.6	3409.6	3409.6	3404.5	3368.5	3353.0	3337.6	3311.9
22.5°	3358.1	3311.9	3296.5	3265.6	3234.8	3229.6	3214.2	3178.2	3157.6	3147.4	3116.5
25°	3198.8	3157.6	3131.9	3101.0	3054.8	3044.5	3029.0	2993.0	2982.8	2967.4	2941.6
27.5°	3034.2	2982.8	2946.8	2915.9	2874.8	2869.6	2838.8	2813.0	2792.5	2782.2	2761.6
30°	2843.9	2787.4	2761.6	2720.5	2689.6	2679.4	2653.6	2617.6	2602.2	2591.9	2576.5
32.5°	2633.1	2586.8	2561.1	2525.1	2483.9	2489.1	2458.2	2427.4	2417.1	2406.8	2391.4
35°	2427.4	2381.1	2350.2	2319.4	2293.6	2283.4	2262.8	2237.1	2221.6	2216.5	2206.2
37.5°	2201.1	2165.1	2139.4	2108.5	2088.0	2077.6	2067.4	2041.6	2031.4	2031.4	2010.8
40°	1980.0	1949.1	1928.5	1913.1	1887.4	1882.2	1872.0	1856.5	1851.4	1846.2	1830.8
42.5°	1779.4	1738.2	1722.8	1712.5	1697.1	1686.8	1681.6	1671.4	1666.2	1661.1	1645.6
45°	1589.1	1553.1	1537.6	1527.4	1512.0	1506.9	1501.6	1486.2	1476.0	1465.6	1460.5
47.5°	1404.0	1378.2	1373.1	1347.4	1337.1	1326.9	1316.5	1306.2	1301.1	1296.0	1275.4
50°	1244.5	1229.1	1203.4	1188.0	1177.6	1172.5	1152.0	1136.5	1131.4	1126.2	1110.9
52.5°	1100.5	1080.0	1064.5	1038.9	1033.6	1023.4	1013.1	992.5	982.2	977.1	961.6
55°	972.0	956.5	936.0	915.4	900.0	894.9	879.4	858.9	848.5	838.2	828.0
57.5°	864.0	838.2	817.8	797.1	786.9	771.4	756.0	745.8	730.2	714.9	699.4
60°	761.1	740.5	714.9	694.2	684.0	673.8	653.1	637.8	622.2	606.9	591.4
62.5°	663.4	642.9	617.1	596.5	586.2	576.0	555.4	540.0	524.5	509.1	488.5
65°	576.0	555.4	534.9	514.2	504.0	493.8	473.1	452.5	437.1	421.8	401.1
67.5°	504.0	478.2	457.8	437.1	426.9	416.5	396.0	380.5	360.0	344.5	324.0
70°	426.9	406.2	390.9	370.2	360.0	349.8	329.1	308.5	293.1	277.8	257.1
72.5°	360.0	334.2	318.9	298.2	288.0	282.9	262.2	246.9	231.4	210.9	195.4
75°	288.0	267.4	246.9	231.4	221.1	216.0	195.4	180.0	164.6	149.1	133.8
77.5°	221.1	205.8	185.1	169.8	159.4	154.2	133.8	118.2	102.9	92.6	77.1
80°	164.6	144.0	133.8	118.2	113.1	102.9	92.6	77.1	66.9	51.4	41.1
82.5°	113.1	97.8	87.4	77.1	72.0	66.9	56.6	46.2	36.0	30.9	25.8
85°	61.8	51.4	46.2	41.1	36.0	36.0	30.9	25.8	20.6	15.4	10.2
87.5°	20.6	15.4	15.4	15.4	15.4	10.2	10.2	10.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9
2.5°	3954.8	3954.8	3954.8	3949.6	3949.6	3949.6	3944.5	3965.0	3944.5	3939.4	3954.8
5°	3949.6	3939.4	3939.4	3939.4	3939.4	3934.1	3929.0	3939.4	3923.9	3918.8	3918.8
7.5°	3918.8	3913.6	3913.6	3908.5	3903.4	3898.1	3893.0	3898.1	3882.8	3877.6	3877.6
10°	3923.9	3913.6	3913.6	3898.1	3887.9	3872.5	3857.0	3862.1	3841.6	3826.1	3826.1
12.5°	3862.1	3836.5	3821.0	3805.6	3795.4	3790.1	3769.6	3779.9	3759.4	3754.1	3754.1
15°	3723.4	3692.5	3666.8	3656.5	3656.5	3646.1	3630.8	3651.4	3641.0	3646.1	3671.9
17.5°	3507.4	3491.9	3476.5	3471.4	3476.5	3486.8	3497.0	3527.9	3527.9	3543.4	3569.0
20°	3317.0	3306.8	3317.0	3317.0	3322.2	3342.8	3363.4	3389.0	3399.4	3414.8	3450.8
22.5°	3131.9	3131.9	3142.2	3157.6	3152.5	3188.5	3193.6	3239.9	3239.9	3270.8	3301.6
25°	2951.9	2951.9	2962.2	2967.4	2977.6	2998.2	3018.8	3054.8	3065.0	3095.9	3121.6
27.5°	2777.0	2771.9	2771.9	2777.0	2787.4	2813.0	2823.4	2864.5	2879.9	2900.5	2926.2
30°	2581.6	2576.5	2586.8	2597.1	2591.9	2617.6	2633.1	2663.9	2674.2	2694.8	2715.4
32.5°	2396.5	2396.5	2396.5	2406.8	2406.8	2427.4	2427.4	2463.4	2463.4	2478.8	2499.4
35°	2206.2	2206.2	2211.4	2216.5	2221.6	2226.8	2231.9	2252.5	2257.6	2262.8	2273.1
37.5°	2026.2	2021.1	2026.2	2026.2	2016.0	2036.5	2036.5	2057.1	2041.6	2057.1	2062.2
40°	1841.1	1841.1	1836.0	1836.0	1836.0	1846.2	1836.0	1851.4	1841.1	1851.4	1846.2
42.5°	1650.8	1650.8	1640.5	1650.8	1645.6	1645.6	1645.6	1656.0	1640.5	1650.8	1656.0
45°	1460.5	1455.4	1455.4	1450.2	1450.2	1450.2	1455.4	1455.4	1450.2	1460.5	1460.5
47.5°	1275.4	1270.2	1270.2	1270.2	1270.2	1275.4	1260.0	1270.2	1260.0	1260.0	1260.0
50°	1116.0	1110.9	1105.6	1100.5	1095.4	1095.4	1090.2	1090.2	1080.0	1074.9	1069.6
52.5°	961.6	956.5	946.2	946.2	941.1	936.0	920.5	920.5	905.1	900.0	900.0
55°	822.9	807.4	802.2	792.0	792.0	781.8	771.4	761.1	745.8	735.4	735.4
57.5°	694.2	678.9	668.5	663.4	658.2	648.0	627.4	622.2	601.8	596.5	591.4
60°	581.1	565.8	550.2	540.0	534.9	519.4	498.9	488.5	478.2	462.9	447.4
62.5°	473.1	457.8	437.1	432.0	421.8	406.2	390.9	375.4	365.1	349.8	339.4
65°	380.5	365.1	349.8	339.4	329.1	313.8	298.2	282.9	272.6	267.4	262.2
67.5°	308.5	288.0	272.6	267.4	257.1	246.9	231.4	226.2	216.0	216.0	216.0
70°	241.8	226.2	210.9	205.8	200.6	190.2	180.0	180.0	180.0	180.0	180.0
72.5°	180.0	169.8	154.2	149.1	144.0	138.9	128.6	133.8	128.6	128.6	128.6
75°	113.1	102.9	92.6	87.4	82.2	77.1	72.0	66.9	61.8	56.6	56.6
77.5°	61.8	51.4	46.2	41.1	41.1	36.0	30.9	30.9	25.8	25.8	25.8
80°	36.0	30.9	25.8	20.6	20.6	15.4	15.4	15.4	15.4	10.2	10.2
82.5°	20.6	15.4	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	5.1
85°	10.2	10.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	0.0
87.5°	5.1	5.1	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: P252418

CATALOG NUMBER: LE_6B60D010R EC6B60708050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9	3959.9
2.5°	3929.0	3944.5	3929.0	3944.5	3944.5	3944.5	3944.5	3929.0
5°	3903.4	3913.6	3898.1	3908.5	3913.6	3908.5	3908.5	3893.0
7.5°	3857.0	3867.4	3851.9	3867.4	3872.5	3867.4	3862.1	3851.9
10°	3810.8	3815.9	3800.5	3810.8	3821.0	3821.0	3815.9	3800.5
12.5°	3738.8	3754.1	3738.8	3749.0	3759.4	3764.5	3764.5	3749.0
15°	3656.5	3682.1	3671.9	3687.4	3702.8	3707.9	3707.9	3702.8
17.5°	3574.1	3599.9	3584.5	3610.1	3625.6	3635.9	3641.0	3630.8
20°	3455.9	3486.8	3476.5	3497.0	3517.6	3533.0	3533.0	3517.6
22.5°	3301.6	3342.8	3337.6	3353.0	3378.8	3383.9	3394.1	3383.9
25°	3131.9	3162.8	3157.6	3173.0	3203.9	3203.9	3209.0	3209.0
27.5°	2936.5	2967.4	2962.2	2972.5	2993.0	2998.2	3003.4	2993.0
30°	2725.6	2741.1	2741.1	2756.5	2771.9	2777.0	2777.0	2761.6
32.5°	2494.2	2514.8	2525.1	2519.9	2535.4	2545.6	2540.5	2540.5
35°	2283.4	2288.5	2293.6	2298.8	2303.9	2314.2	2303.9	2298.8
37.5°	2057.1	2072.5	2062.2	2072.5	2082.8	2077.6	2072.5	2072.5
40°	1851.4	1856.5	1846.2	1856.5	1861.6	1861.6	1861.6	1851.4
42.5°	1645.6	1656.0	1645.6	1656.0	1656.0	1656.0	1656.0	1650.8
45°	1440.0	1450.2	1450.2	1455.4	1455.4	1450.2	1450.2	1450.2
47.5°	1249.6	1260.0	1249.6	1260.0	1265.1	1254.9	1254.9	1254.9
50°	1069.6	1064.5	1064.5	1069.6	1069.6	1069.6	1069.6	1064.5
52.5°	884.5	889.8	889.8	889.8	894.9	889.8	894.9	894.9
55°	725.1	725.1	725.1	730.2	725.1	725.1	730.2	735.4
57.5°	581.1	576.0	570.9	570.9	576.0	570.9	570.9	570.9
60°	447.4	442.2	437.1	437.1	437.1	437.1	437.1	432.0
62.5°	334.2	334.2	334.2	339.4	339.4	339.4	339.4	344.5
65°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	272.6
67.5°	216.0	216.0	216.0	221.1	221.1	221.1	221.1	221.1
70°	180.0	180.0	185.1	180.0	185.1	185.1	185.1	185.1
72.5°	123.4	123.4	123.4	123.4	123.4	118.2	123.4	118.2
75°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	46.2
77.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
80°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
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



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













(END OF REPORT)