

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: P252416

Luminaire Tested: **LE_6B60D010R EC6B60708035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252416
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 EC6B60708035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6923.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

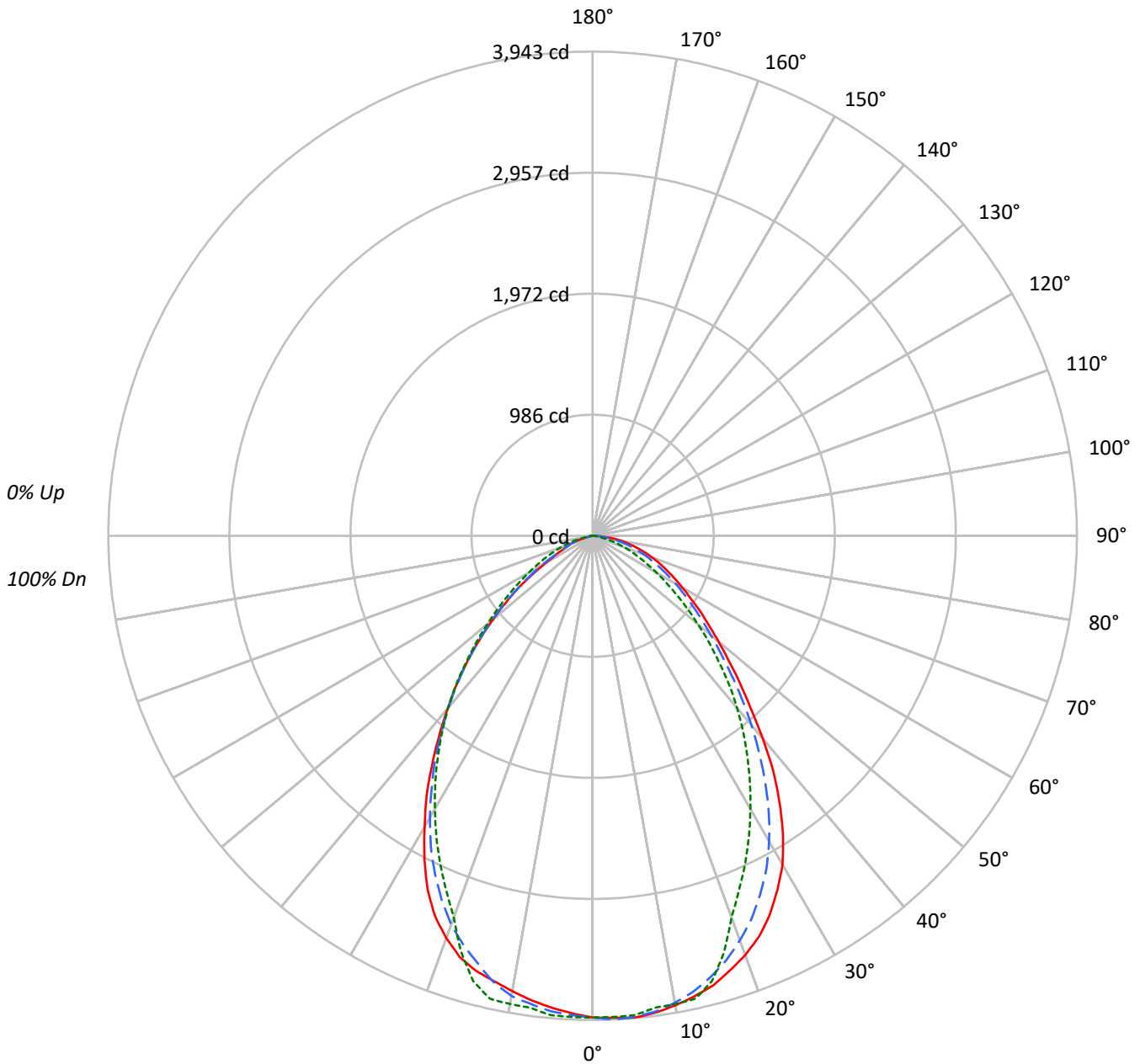
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	255939	255939	255939
5°	257925	256589	252588
10°	257184	256515	249427
15°	256025	253614	247758
20°	252203	229569	241948
25°	245361	211622	228855
30°	232976	193449	206112
35°	211407	174890	181381
40°	183540	155768	156202
45°	156535	133968	132565
50°	135488	113250	107038
55°	121126	94464	82874
60°	110361	78445	55846
65°	103028	64497	41681
70°	98160	52476	34984
75°	92485	37256	11570
80°	88065	19161	3832
85°	72460	11378	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	5.4
10°-20°	1036.1	15.0
20°-30°	1430.2	20.7
30°-40°	1455.4	21.0
40°-50°	1169.7	16.9
50°-60°	777.7	11.2
60°-70°	443.2	6.4
70°-80°	199.1	2.9
80°-90°	41.9	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°	2836.8	41.0
0°-40°	4292.2	62.0
0°-60°	6239.6	90.1
0°-90°	6923.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6923.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3923	3923	3923	3923	3923	
5°	3938	3933	3918	3887	3857	374
15°	3791	3719	3755	3607	3668	1067
25°	3408	3225	2940	3036	3179	1562
35°	2654	2451	2196	2237	2277	1650
45°	1697	1595	1452	1437	1437	1316
55°	1065	994	830	739	729	957
65°	667	596	418	270	270	665
75°	367	306	148	61	46	392
85°	97	66	15	5	0	115
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°	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0
2.5°	3928.1	3948.5	3943.4	3938.4	3943.4	3938.4	3928.1	3928.1	3918.0	3918.0	3943.4
5°	3938.4	3948.5	3943.4	3938.4	3938.4	3943.4	3923.0	3923.0	3912.9	3907.8	3933.2
7.5°	3918.0	3933.2	3923.0	3923.0	3918.0	3923.0	3902.6	3902.6	3887.4	3882.2	3907.8
10°	3882.2	3902.6	3892.5	3892.5	3892.5	3882.2	3872.1	3867.0	3851.8	3846.6	3861.9
12.5°	3841.5	3856.9	3851.8	3841.5	3841.5	3841.5	3821.1	3816.0	3795.6	3785.5	3800.8
15°	3790.6	3800.8	3795.6	3790.6	3780.4	3780.4	3760.0	3749.9	3729.5	3709.1	3719.2
17.5°	3714.1	3729.5	3719.2	3714.1	3698.9	3698.9	3678.5	3668.2	3637.8	3617.4	3622.5
20°	3632.6	3637.8	3632.6	3622.5	3607.1	3602.1	3581.8	3561.4	3535.9	3510.4	3505.2
22.5°	3535.9	3541.0	3525.6	3515.5	3500.1	3495.1	3469.6	3454.4	3413.6	3383.0	3377.9
25°	3408.5	3413.6	3413.6	3388.1	3377.9	3367.8	3342.2	3316.8	3281.1	3240.4	3225.0
27.5°	3255.6	3270.9	3260.8	3235.2	3214.9	3209.8	3184.2	3163.9	3118.1	3082.4	3062.0
30°	3092.6	3087.5	3082.4	3067.1	3036.5	3031.5	3006.0	2980.5	2944.9	2899.0	2873.5
32.5°	2883.8	2883.8	2878.6	2863.4	2832.8	2822.5	2802.1	2771.6	2730.9	2695.2	2669.8
35°	2654.4	2659.5	2654.4	2623.9	2603.5	2593.2	2583.1	2547.5	2511.8	2471.0	2450.6
37.5°	2415.0	2399.6	2404.8	2379.2	2353.9	2364.0	2333.5	2318.1	2277.4	2246.9	2226.5
40°	2155.1	2165.4	2145.0	2134.8	2119.5	2104.1	2104.1	2078.8	2058.4	2022.6	2012.5
42.5°	1900.4	1915.6	1910.6	1900.4	1880.0	1885.1	1859.6	1849.5	1824.0	1808.6	1793.4
45°	1696.6	1696.6	1696.6	1686.4	1681.2	1671.1	1655.9	1640.5	1625.2	1604.9	1594.8
47.5°	1497.9	1497.9	1503.0	1492.8	1482.6	1477.5	1467.4	1467.4	1441.9	1421.5	1411.2
50°	1334.9	1334.9	1334.9	1324.6	1314.5	1314.5	1304.2	1294.1	1278.9	1263.5	1253.4
52.5°	1187.1	1187.1	1187.1	1176.9	1171.9	1166.8	1161.6	1156.5	1136.1	1126.0	1115.8
55°	1064.9	1059.8	1059.8	1054.6	1044.5	1044.5	1039.4	1029.1	1013.9	998.6	993.5
57.5°	942.5	947.6	942.5	942.5	932.4	932.4	922.1	917.1	901.8	891.6	881.4
60°	845.8	845.8	845.8	840.6	830.5	835.5	825.4	820.2	805.0	789.8	779.5
62.5°	749.0	754.0	754.0	749.0	738.8	738.8	733.6	728.6	713.2	698.0	682.8
65°	667.4	667.4	667.4	662.4	657.2	657.2	652.1	647.0	631.8	611.4	596.1
67.5°	591.0	585.9	585.9	585.9	580.9	575.8	570.6	565.5	550.2	535.0	514.6
70°	514.6	514.6	514.6	509.5	499.2	504.4	499.2	494.2	478.9	463.6	448.4
72.5°	443.2	443.2	438.1	433.1	433.1	428.0	428.0	422.9	407.6	387.2	371.9
75°	366.9	366.9	366.9	366.9	356.6	361.8	351.5	346.5	336.2	321.0	305.8
77.5°	300.6	300.6	300.6	295.5	290.4	290.4	285.4	280.2	264.9	254.8	234.4
80°	234.4	234.4	234.4	234.4	229.2	224.1	219.1	214.0	203.8	188.5	173.2
82.5°	173.2	173.2	168.1	168.1	168.1	163.0	158.0	152.9	142.6	132.5	122.2
85°	96.8	101.9	101.9	91.8	96.8	91.8	91.8	81.5	81.5	71.4	66.2
87.5°	35.6	30.6	30.6	30.6	30.6	30.6	30.6	25.5	25.5	25.5	20.4
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°	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0
2.5°	3923.0	3918.0	3938.4	3938.4	3907.8	3923.0	3928.1	3918.0	3918.0	3923.0	3907.8
5°	3912.9	3902.6	3923.0	3928.1	3897.6	3912.9	3918.0	3907.8	3912.9	3918.0	3897.6
7.5°	3877.2	3877.2	3892.5	3897.6	3867.0	3882.2	3882.2	3872.1	3877.2	3877.2	3861.9
10°	3841.5	3826.2	3841.5	3841.5	3816.0	3821.1	3831.4	3826.2	3846.6	3872.1	3872.1
12.5°	3775.2	3760.0	3785.5	3785.5	3770.2	3790.6	3816.0	3831.4	3851.8	3861.9	3831.4
15°	3693.8	3698.9	3744.8	3780.4	3765.1	3795.6	3821.1	3811.0	3785.5	3754.9	3709.1
17.5°	3586.8	3571.5	3612.2	3632.6	3612.2	3622.5	3642.9	3622.5	3581.8	3556.2	3495.1
20°	3464.5	3423.8	3423.8	3413.6	3377.9	3377.9	3372.8	3337.1	3321.9	3306.6	3281.1
22.5°	3327.0	3281.1	3265.9	3235.2	3204.6	3199.6	3184.2	3148.6	3128.2	3118.1	3087.5
25°	3169.0	3128.2	3102.8	3072.2	3026.4	3016.1	3000.9	2965.2	2955.0	2939.8	2914.2
27.5°	3006.0	2955.0	2919.4	2888.8	2848.0	2843.0	2812.4	2786.9	2766.5	2756.4	2736.0
30°	2817.5	2761.4	2736.0	2695.2	2664.6	2654.4	2629.0	2593.2	2578.0	2567.9	2552.5
32.5°	2608.6	2562.8	2537.2	2501.6	2460.9	2465.9	2435.4	2404.8	2394.6	2384.4	2369.1
35°	2404.8	2358.9	2328.4	2297.8	2272.4	2262.1	2241.8	2216.2	2201.0	2195.9	2185.8
37.5°	2180.6	2145.0	2119.5	2088.9	2068.5	2058.4	2048.1	2022.6	2012.5	2012.5	1992.1
40°	1961.5	1931.0	1910.6	1895.2	1869.9	1864.8	1854.5	1839.2	1834.1	1829.0	1813.8
42.5°	1762.9	1722.1	1706.8	1696.6	1681.2	1671.1	1666.0	1655.9	1650.8	1645.6	1630.4
45°	1574.4	1538.6	1523.4	1513.1	1497.9	1492.8	1487.8	1472.4	1462.2	1452.0	1447.0
47.5°	1390.9	1365.4	1360.4	1334.9	1324.6	1314.5	1304.2	1294.1	1289.0	1283.9	1263.5
50°	1233.0	1217.6	1192.2	1176.9	1166.8	1161.6	1141.2	1126.0	1120.9	1115.8	1100.5
52.5°	1090.2	1069.9	1054.6	1029.1	1024.1	1013.9	1003.8	983.2	973.1	968.0	952.8
55°	962.9	947.6	927.2	906.9	891.6	886.5	871.2	850.9	840.6	830.5	820.2
57.5°	856.0	830.5	810.1	789.8	779.5	764.2	749.0	738.8	723.5	708.2	692.9
60°	754.0	733.6	708.2	687.8	677.6	667.4	647.0	631.8	616.5	601.2	585.9
62.5°	657.2	636.9	611.4	591.0	580.9	570.6	550.2	535.0	519.6	504.4	484.0
65°	570.6	550.2	529.9	509.5	499.2	489.1	468.8	448.4	433.1	417.8	397.4
67.5°	499.2	473.9	453.5	433.1	422.9	412.6	392.2	377.0	356.6	341.4	321.0
70°	422.9	402.5	387.2	366.9	356.6	346.5	326.1	305.8	290.4	275.1	254.8
72.5°	356.6	331.1	315.9	295.5	285.4	280.2	259.9	244.5	229.2	208.9	193.6
75°	285.4	264.9	244.5	229.2	219.1	214.0	193.6	178.4	163.0	147.8	132.5
77.5°	219.1	203.8	183.4	168.1	158.0	152.9	132.5	117.1	101.9	91.8	76.4
80°	163.0	142.6	132.5	117.1	112.1	101.9	91.8	76.4	66.2	51.0	40.8
82.5°	112.1	96.8	86.6	76.4	71.4	66.2	56.0	45.9	35.6	30.6	25.5
85°	61.1	51.0	45.9	40.8	35.6	35.6	30.6	25.5	20.4	15.2	10.2
87.5°	20.4	15.2	15.2	15.2	15.2	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°	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0
2.5°	3918.0	3918.0	3918.0	3912.9	3912.9	3912.9	3907.8	3928.1	3907.8	3902.6	3918.0
5°	3912.9	3902.6	3902.6	3902.6	3902.6	3897.6	3892.5	3902.6	3887.4	3882.2	3882.2
7.5°	3882.2	3877.2	3877.2	3872.1	3867.0	3861.9	3856.9	3861.9	3846.6	3841.5	3841.5
10°	3887.4	3877.2	3877.2	3861.9	3851.8	3836.5	3821.1	3826.2	3805.9	3790.6	3790.6
12.5°	3826.2	3800.8	3785.5	3770.2	3760.0	3754.9	3734.5	3744.8	3724.4	3719.2	3719.2
15°	3688.8	3658.1	3632.6	3622.5	3622.5	3612.2	3597.0	3617.4	3607.1	3612.2	3637.8
17.5°	3474.8	3459.4	3444.1	3439.0	3444.1	3454.4	3464.5	3495.1	3495.1	3510.4	3535.9
20°	3286.2	3276.0	3286.2	3286.2	3291.2	3311.6	3332.0	3357.5	3367.8	3383.0	3418.6
22.5°	3102.8	3102.8	3113.0	3128.2	3123.1	3158.9	3163.9	3209.8	3209.8	3240.4	3270.9
25°	2924.5	2924.5	2934.6	2939.8	2949.9	2970.4	2990.8	3026.4	3036.5	3067.1	3092.6
27.5°	2751.2	2746.1	2746.1	2751.2	2761.4	2786.9	2797.1	2837.9	2853.1	2873.5	2899.0
30°	2557.6	2552.5	2562.8	2572.9	2567.9	2593.2	2608.6	2639.1	2649.4	2669.8	2690.1
32.5°	2374.2	2374.2	2374.2	2384.4	2384.4	2404.8	2404.8	2440.5	2440.5	2455.8	2476.1
35°	2185.8	2185.8	2190.8	2195.9	2201.0	2206.1	2211.1	2231.5	2236.6	2241.8	2251.9
37.5°	2007.4	2002.2	2007.4	2007.4	1997.2	2017.6	2017.6	2038.0	2022.6	2038.0	2043.0
40°	1824.0	1824.0	1818.9	1818.9	1818.9	1829.0	1818.9	1834.1	1824.0	1834.1	1829.0
42.5°	1635.5	1635.5	1625.2	1635.5	1630.4	1630.4	1630.4	1640.5	1625.2	1635.5	1640.5
45°	1447.0	1441.9	1441.9	1436.8	1436.8	1436.8	1441.9	1441.9	1436.8	1447.0	1447.0
47.5°	1263.5	1258.4	1258.4	1258.4	1258.4	1263.5	1248.2	1258.4	1248.2	1248.2	1248.2
50°	1105.6	1100.5	1095.4	1090.2	1085.2	1085.2	1080.1	1080.1	1069.9	1064.9	1059.8
52.5°	952.8	947.6	937.5	937.5	932.4	927.2	912.0	912.0	896.8	891.6	891.6
55°	815.1	799.9	794.8	784.6	784.6	774.4	764.2	754.0	738.8	728.6	728.6
57.5°	687.8	672.5	662.4	657.2	652.1	642.0	621.6	616.5	596.1	591.0	585.9
60°	575.8	560.4	545.1	535.0	529.9	514.6	494.2	484.0	473.9	458.5	443.2
62.5°	468.8	453.5	433.1	428.0	417.8	402.5	387.2	371.9	361.8	346.5	336.2
65°	377.0	361.8	346.5	336.2	326.1	310.8	295.5	280.2	270.0	264.9	259.9
67.5°	305.8	285.4	270.0	264.9	254.8	244.5	229.2	224.1	214.0	214.0	214.0
70°	239.5	224.1	208.9	203.8	198.8	188.5	178.4	178.4	178.4	178.4	178.4
72.5°	178.4	168.1	152.9	147.8	142.6	137.5	127.4	132.5	127.4	127.4	127.4
75°	112.1	101.9	91.8	86.6	81.5	76.4	71.4	66.2	61.1	56.0	56.0
77.5°	61.1	51.0	45.9	40.8	40.8	35.6	30.6	30.6	25.5	25.5	25.5
80°	35.6	30.6	25.5	20.4	20.4	15.2	15.2	15.2	15.2	10.2	10.2
82.5°	20.4	15.2	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: P252416

CATALOG NUMBER: LE_6B60D010R EC6B60708035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0	3923.0
2.5°	3892.5	3907.8	3892.5	3907.8	3907.8	3907.8	3907.8	3892.5
5°	3867.0	3877.2	3861.9	3872.1	3877.2	3872.1	3872.1	3856.9
7.5°	3821.1	3831.4	3816.0	3831.4	3836.5	3831.4	3826.2	3816.0
10°	3775.2	3780.4	3765.1	3775.2	3785.5	3785.5	3780.4	3765.1
12.5°	3704.0	3719.2	3704.0	3714.1	3724.4	3729.5	3729.5	3714.1
15°	3622.5	3647.9	3637.8	3653.0	3668.2	3673.4	3673.4	3668.2
17.5°	3541.0	3566.4	3551.1	3576.6	3591.9	3602.1	3607.1	3597.0
20°	3423.8	3454.4	3444.1	3464.5	3484.9	3500.1	3500.1	3484.9
22.5°	3270.9	3311.6	3306.6	3321.9	3347.4	3352.4	3362.6	3352.4
25°	3102.8	3133.4	3128.2	3143.5	3174.1	3174.1	3179.2	3179.2
27.5°	2909.1	2939.8	2934.6	2944.9	2965.2	2970.4	2975.4	2965.2
30°	2700.2	2715.6	2715.6	2730.9	2746.1	2751.2	2751.2	2736.0
32.5°	2471.0	2491.4	2501.6	2496.5	2511.8	2522.0	2516.9	2516.9
35°	2262.1	2267.2	2272.4	2277.4	2282.5	2292.8	2282.5	2277.4
37.5°	2038.0	2053.2	2043.0	2053.2	2063.4	2058.4	2053.2	2053.2
40°	1834.1	1839.2	1829.0	1839.2	1844.4	1844.4	1844.4	1834.1
42.5°	1630.4	1640.5	1630.4	1640.5	1640.5	1640.5	1640.5	1635.5
45°	1426.6	1436.8	1436.8	1441.9	1441.9	1436.8	1436.8	1436.8
47.5°	1238.0	1248.2	1238.0	1248.2	1253.4	1243.1	1243.1	1243.1
50°	1059.8	1054.6	1054.6	1059.8	1059.8	1059.8	1059.8	1054.6
52.5°	876.4	881.4	881.4	881.4	886.5	881.4	886.5	886.5
55°	718.4	718.4	718.4	723.5	718.4	718.4	723.5	728.6
57.5°	575.8	570.6	565.5	565.5	570.6	565.5	565.5	565.5
60°	443.2	438.1	433.1	433.1	433.1	433.1	433.1	428.0
62.5°	331.1	331.1	331.1	336.2	336.2	336.2	336.2	341.4
65°	264.9	264.9	264.9	264.9	264.9	264.9	264.9	270.0
67.5°	214.0	214.0	214.0	219.1	219.1	219.1	219.1	219.1
70°	178.4	178.4	183.4	178.4	183.4	183.4	183.4	183.4
72.5°	122.2	122.2	122.2	122.2	122.2	117.1	122.2	117.1
75°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	45.9
77.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
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)