

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: P252520

Luminaire Tested: **LE_6B60D010R EC6B60708035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B60D010R EC6B60708035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6501.3 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

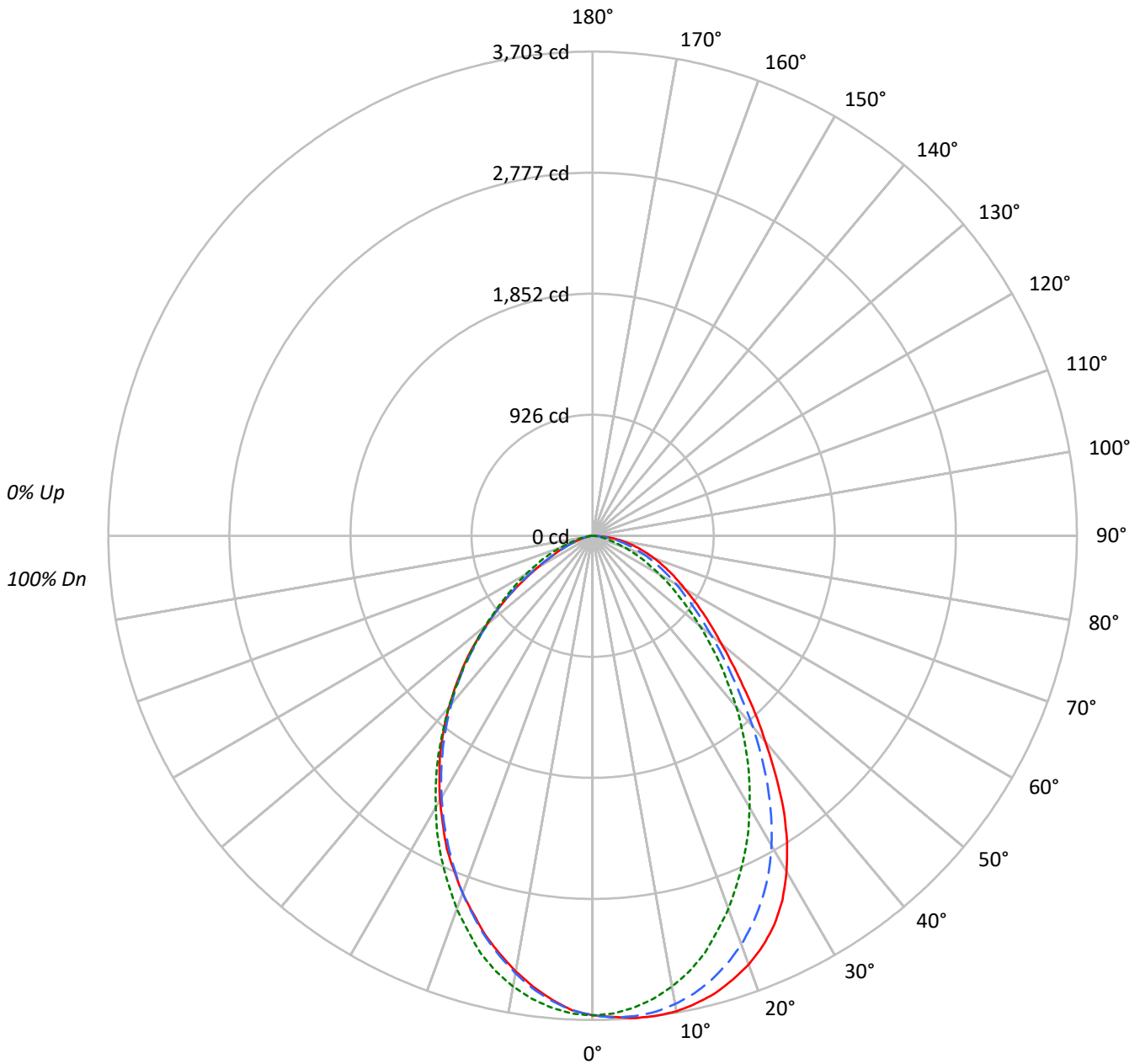
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39			39
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35			35
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	239277	239277	239277
5°	242535	237198	233196
10°	244657	231838	224074
15°	244631	223294	213663
20°	242261	210782	201937
25°	236514	196548	189940
30°	223348	180740	175753
35°	202447	163908	161877
40°	174836	145769	145335
45°	149929	126900	127841
50°	130281	108581	107028
55°	117042	91552	85751
60°	106342	77101	63140
65°	99864	63694	46389
70°	95223	49557	33992
75°	91149	35945	23140
80°	86112	24872	15329
85°	76277	15270	7635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	5.3
10°-20°	939.6	14.5
20°-30°	1304.5	20.1
30°-40°	1351.2	20.8
40°-50°	1110.3	17.1
50°-60°	763.1	11.7
60°-70°	438.7	6.7
70°-80°	201.7	3.1
80°-90°	49.1	0.8
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°	2587.2	39.8
0°-40°	3938.3	60.6
0°-60°	5811.8	89.4
0°-90°	6501.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6501.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3668	3668	3668	3668	3668	
5°	3703	3688	3622	3571	3561	353
15°	3622	3515	3306	3174	3163	1020
25°	3286	3067	2730	2613	2639	1503
35°	2542	2333	2058	1997	2032	1576
45°	1625	1503	1375	1360	1386	1266
55°	1029	932	805	759	754	926
65°	647	565	413	290	300	644
75°	362	285	143	92	92	382
85°	102	71	20	10	10	114
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°	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6
2.5°	3683.0	3713.5	3693.1	3688.0	3698.2	3698.2	3698.2	3683.0	3693.1	3677.9	3688.0
5°	3703.4	3728.8	3708.4	3698.2	3708.4	3713.5	3698.2	3688.0	3703.4	3683.0	3688.0
7.5°	3703.4	3728.8	3708.4	3703.4	3708.4	3708.4	3703.4	3683.0	3693.1	3672.8	3672.8
10°	3693.1	3713.5	3693.1	3683.0	3688.0	3683.0	3683.0	3657.5	3662.6	3637.1	3637.1
12.5°	3662.6	3688.0	3662.6	3652.4	3652.4	3652.4	3637.1	3616.8	3621.9	3591.2	3586.1
15°	3621.9	3642.2	3616.8	3606.5	3606.5	3601.5	3591.2	3560.8	3560.8	3530.1	3514.9
17.5°	3560.8	3581.1	3560.8	3545.4	3540.4	3530.1	3520.0	3489.4	3479.2	3443.5	3428.2
20°	3489.4	3504.6	3484.2	3469.0	3458.9	3448.6	3428.2	3397.6	3387.5	3351.9	3326.4
22.5°	3397.6	3418.0	3387.5	3372.2	3362.0	3346.8	3326.4	3295.8	3280.5	3234.6	3204.1
25°	3285.6	3295.8	3270.4	3255.0	3234.6	3224.5	3209.2	3168.5	3153.1	3102.2	3066.6
27.5°	3143.0	3153.1	3122.6	3112.4	3087.0	3076.8	3056.4	3020.8	3000.4	2949.4	2913.8
30°	2964.8	2974.9	2954.5	2939.2	2918.9	2898.5	2883.2	2847.5	2817.0	2766.0	2735.5
32.5°	2766.0	2781.4	2761.0	2740.6	2704.9	2710.0	2684.5	2648.9	2623.4	2577.5	2541.9
35°	2541.9	2552.1	2526.6	2521.5	2501.1	2480.8	2455.2	2429.9	2414.5	2363.6	2333.0
37.5°	2292.2	2317.8	2292.2	2271.9	2261.8	2246.5	2231.1	2195.5	2185.4	2154.8	2114.0
40°	2052.9	2068.1	2052.9	2032.5	2017.2	2017.2	1996.9	1976.5	1951.0	1920.4	1905.1
42.5°	1838.9	1828.8	1823.6	1813.5	1793.1	1788.0	1782.9	1757.4	1742.1	1711.6	1686.1
45°	1625.0	1630.1	1619.9	1614.8	1599.5	1589.4	1579.1	1558.8	1553.6	1523.1	1502.8
47.5°	1446.8	1441.6	1431.4	1431.4	1421.2	1411.0	1400.9	1385.6	1380.5	1355.0	1334.6
50°	1283.6	1288.8	1283.6	1278.6	1263.2	1258.2	1248.0	1237.9	1227.6	1202.1	1181.8
52.5°	1151.2	1146.1	1141.0	1141.0	1125.8	1120.6	1110.5	1100.2	1090.1	1064.6	1049.4
55°	1029.0	1029.0	1023.9	1018.8	1003.5	998.4	993.4	983.1	967.9	947.5	932.2
57.5°	916.9	916.9	911.9	906.8	896.5	896.5	886.4	876.1	866.0	845.6	825.2
60°	815.0	820.1	815.0	810.0	799.8	799.8	794.6	779.4	774.2	748.9	733.5
62.5°	728.5	728.5	728.5	723.4	718.2	708.1	708.1	692.8	682.6	667.2	646.9
65°	646.9	646.9	646.9	641.9	631.6	626.5	621.5	611.2	601.1	585.8	565.4
67.5°	570.5	570.5	570.5	565.4	555.2	550.1	545.0	540.0	524.6	509.4	489.0
70°	499.2	499.2	494.1	489.0	483.9	478.9	473.8	463.5	453.4	433.0	417.8
72.5°	427.9	427.9	427.9	417.8	412.6	412.6	402.4	397.4	387.1	366.8	351.5
75°	361.6	356.6	356.6	351.5	346.4	341.2	336.2	331.1	315.9	305.6	285.2
77.5°	295.5	295.5	290.4	285.2	285.2	280.1	275.1	264.9	259.8	244.5	229.2
80°	229.2	229.2	229.2	229.2	224.1	219.0	219.0	208.9	203.8	188.5	178.2
82.5°	173.2	168.1	168.1	168.1	163.0	157.9	157.9	152.9	147.8	137.5	127.4
85°	101.9	96.8	96.8	96.8	91.8	91.8	86.6	86.6	81.5	71.4	71.4
87.5°	30.6	30.6	35.6	35.6	30.6	30.6	30.6	30.6	30.6	25.5	25.5
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°	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6
2.5°	3677.9	3693.1	3672.8	3667.6	3688.0	3677.9	3672.8	3662.6	3667.6	3657.5	3642.2
5°	3672.8	3693.1	3667.6	3652.4	3677.9	3662.6	3652.4	3642.2	3642.2	3621.9	3611.6
7.5°	3657.5	3667.6	3642.2	3626.9	3642.2	3626.9	3616.8	3601.5	3596.4	3570.9	3555.6
10°	3616.8	3626.9	3596.4	3576.0	3591.2	3570.9	3555.6	3540.4	3530.1	3499.6	3479.2
12.5°	3560.8	3565.8	3530.1	3504.6	3514.9	3499.6	3474.1	3453.8	3443.5	3413.0	3387.5
15°	3484.2	3489.4	3448.6	3413.0	3423.1	3402.8	3372.2	3351.9	3336.5	3306.0	3270.4
17.5°	3392.6	3387.5	3341.6	3306.0	3311.1	3285.6	3255.0	3224.5	3204.1	3168.5	3143.0
20°	3290.8	3275.4	3224.5	3183.8	3188.9	3158.2	3122.6	3092.0	3066.6	3036.0	3000.4
22.5°	3163.4	3143.0	3097.1	3046.2	3051.2	3025.9	2974.9	2949.4	2924.0	2883.2	2852.6
25°	3025.9	2995.2	2949.4	2898.5	2898.5	2867.9	2827.1	2796.6	2771.1	2730.4	2694.8
27.5°	2862.9	2847.5	2786.4	2745.6	2740.6	2710.0	2674.4	2638.6	2608.1	2572.5	2536.8
30°	2684.5	2659.0	2613.2	2567.4	2557.1	2531.8	2496.0	2455.2	2434.9	2399.2	2368.8
32.5°	2496.0	2470.6	2419.6	2373.8	2368.8	2348.4	2317.8	2277.0	2256.6	2231.1	2210.8
35°	2282.1	2271.9	2221.0	2185.4	2185.4	2165.0	2134.4	2098.8	2083.5	2058.0	2032.5
37.5°	2078.4	2063.1	2017.2	1986.6	1986.6	1961.1	1930.6	1915.4	1900.0	1879.6	1864.4
40°	1864.4	1854.2	1818.5	1788.0	1793.1	1772.8	1752.4	1732.0	1721.8	1711.6	1696.2
42.5°	1665.8	1655.5	1630.1	1604.6	1604.6	1589.4	1569.0	1553.6	1543.5	1528.2	1523.1
45°	1487.5	1472.1	1451.8	1426.4	1426.4	1411.0	1400.9	1390.6	1385.6	1375.4	1360.1
47.5°	1314.2	1304.0	1283.6	1258.2	1258.2	1258.2	1237.9	1222.5	1222.5	1212.4	1207.2
50°	1166.5	1151.2	1136.0	1115.6	1115.6	1105.4	1090.1	1074.9	1074.9	1069.8	1059.5
52.5°	1029.0	1018.8	998.4	978.0	978.0	967.9	952.6	947.5	942.4	927.1	922.0
55°	911.9	901.6	886.4	860.9	855.8	850.8	835.4	825.2	820.1	804.9	804.9
57.5°	804.9	794.6	769.2	753.9	748.9	738.6	723.4	713.1	708.1	697.9	687.8
60°	713.1	697.9	677.5	657.1	652.0	641.9	626.5	616.4	611.2	590.9	580.8
62.5°	626.5	611.2	590.9	570.5	565.4	555.2	534.9	524.6	514.5	494.1	483.9
65°	545.0	529.8	509.4	489.0	478.9	473.8	453.4	438.1	427.9	412.6	392.2
67.5°	468.6	453.4	433.0	407.5	407.5	392.2	377.0	361.6	346.4	331.1	315.9
70°	397.4	382.0	361.6	341.2	336.2	326.0	310.8	290.4	280.1	259.8	244.5
72.5°	331.1	315.9	295.5	275.1	270.0	259.8	244.5	224.1	208.9	193.6	178.2
75°	270.0	254.8	234.4	219.0	214.0	203.8	188.5	168.1	152.9	142.6	127.4
77.5°	214.0	198.6	183.4	168.1	163.0	152.9	137.5	127.4	112.1	101.9	86.6
80°	163.0	152.9	137.5	127.4	122.2	112.1	101.9	86.6	76.4	66.2	61.1
82.5°	117.1	107.0	96.8	81.5	81.5	71.4	66.2	56.0	45.9	40.8	35.6
85°	66.2	56.0	51.0	45.9	40.8	40.8	35.6	30.6	25.5	20.4	20.4
87.5°	20.4	20.4	15.2	15.2	15.2	15.2	10.2	10.2	10.2	10.2	10.2
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°	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6
2.5°	3642.2	3647.2	3637.1	3647.2	3637.1	3642.2	3632.0	3642.2	3632.0	3642.2	3621.9
5°	3606.5	3606.5	3591.2	3601.5	3591.2	3596.4	3576.0	3581.1	3570.9	3581.1	3560.8
7.5°	3545.4	3550.5	3525.0	3535.2	3520.0	3520.0	3504.6	3509.8	3494.5	3499.6	3484.2
10°	3474.1	3469.0	3443.5	3453.8	3433.4	3433.4	3418.0	3418.0	3397.6	3402.8	3382.4
12.5°	3372.2	3367.1	3336.5	3346.8	3326.4	3326.4	3311.1	3311.1	3290.8	3300.9	3280.5
15°	3255.0	3250.0	3219.4	3224.5	3204.1	3204.1	3183.8	3188.9	3173.5	3183.8	3163.4
17.5°	3122.6	3117.5	3087.0	3092.0	3066.6	3071.6	3056.4	3051.2	3041.1	3046.2	3030.9
20°	2985.1	2974.9	2944.4	2949.4	2939.2	2924.0	2913.8	2918.9	2908.6	2918.9	2903.6
22.5°	2842.5	2822.1	2796.6	2796.6	2786.4	2786.4	2771.1	2781.4	2761.0	2776.2	2766.0
25°	2679.4	2664.1	2643.8	2654.0	2633.6	2633.6	2618.2	2623.4	2613.2	2623.4	2613.2
27.5°	2521.5	2511.4	2480.8	2491.0	2475.6	2480.8	2465.5	2470.6	2465.5	2475.6	2465.5
30°	2353.4	2348.4	2328.0	2328.0	2322.9	2317.8	2312.6	2312.6	2307.6	2322.9	2312.6
32.5°	2195.5	2180.2	2159.9	2175.1	2149.6	2165.0	2154.8	2165.0	2154.8	2165.0	2159.9
35°	2032.5	2027.4	2001.9	2007.0	2001.9	2001.9	1996.9	1996.9	1996.9	2012.1	2012.1
37.5°	1859.2	1854.2	1838.9	1844.0	1833.9	1828.8	1828.8	1838.9	1838.9	1849.1	1849.1
40°	1691.2	1696.2	1681.0	1681.0	1675.9	1675.9	1675.9	1686.1	1681.0	1691.2	1686.1
42.5°	1523.1	1523.1	1507.9	1512.9	1507.9	1512.9	1512.9	1523.1	1523.1	1528.2	1523.1
45°	1365.1	1365.1	1360.1	1365.1	1355.0	1360.1	1355.0	1365.1	1360.1	1365.1	1365.1
47.5°	1207.2	1207.2	1207.2	1202.1	1202.1	1202.1	1202.1	1202.1	1197.1	1207.2	1202.1
50°	1059.5	1064.6	1059.5	1059.5	1054.5	1059.5	1054.5	1054.5	1044.2	1049.4	1049.4
52.5°	927.1	927.1	916.9	916.9	916.9	911.9	911.9	911.9	906.8	906.8	896.5
55°	799.8	799.8	789.6	789.6	784.5	779.4	774.2	774.2	759.0	759.0	743.8
57.5°	682.6	677.5	662.2	662.2	652.0	646.9	641.9	636.8	626.5	616.4	611.2
60°	575.6	565.4	555.2	550.1	540.0	529.8	519.6	509.4	499.2	494.1	489.0
62.5°	473.8	458.5	448.2	443.1	433.0	417.8	407.5	397.4	387.1	382.0	371.9
65°	382.0	366.8	351.5	346.4	336.2	326.0	310.8	300.5	290.4	285.2	285.2
67.5°	300.5	285.2	264.9	264.9	254.8	244.5	234.4	224.1	219.0	224.1	224.1
70°	224.1	214.0	198.6	193.6	183.4	173.2	168.1	168.1	168.1	173.2	168.1
72.5°	168.1	152.9	142.6	137.5	132.5	127.4	127.4	127.4	122.2	127.4	127.4
75°	117.1	107.0	96.8	96.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
77.5°	81.5	71.4	66.2	66.2	66.2	61.1	61.1	61.1	61.1	61.1	61.1
80°	51.0	51.0	45.9	45.9	40.8	40.8	40.8	40.8	40.8	40.8	40.8
82.5°	30.6	30.6	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
85°	15.2	15.2	15.2	15.2	15.2	10.2	10.2	10.2	10.2	10.2	10.2
87.5°	5.1	5.1	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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: P252520

CATALOG NUMBER: LE_6B60D010R EC6B60708035 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6	3667.6
2.5°	3621.9	3637.1	3616.8	3632.0	3626.9	3621.9	3611.6	3632.0
5°	3560.8	3565.8	3545.4	3565.8	3560.8	3550.5	3540.4	3560.8
7.5°	3474.1	3489.4	3463.9	3484.2	3479.2	3469.0	3458.9	3479.2
10°	3377.2	3392.6	3372.2	3387.5	3387.5	3377.2	3362.0	3382.4
12.5°	3270.4	3280.5	3260.1	3280.5	3275.4	3265.2	3260.1	3275.4
15°	3153.1	3168.5	3148.1	3163.4	3158.2	3153.1	3148.1	3163.4
17.5°	3025.9	3041.1	3025.9	3041.1	3041.1	3025.9	3020.8	3030.9
20°	2898.5	2908.6	2893.4	2908.6	2903.6	2903.6	2893.4	2908.6
22.5°	2755.9	2771.1	2761.0	2771.1	2766.0	2766.0	2761.0	2771.1
25°	2613.2	2628.5	2613.2	2628.5	2623.4	2623.4	2613.2	2638.6
27.5°	2470.6	2480.8	2465.5	2485.9	2480.8	2470.6	2475.6	2480.8
30°	2317.8	2328.0	2317.8	2333.0	2333.0	2333.0	2322.9	2333.0
32.5°	2165.0	2180.2	2165.0	2180.2	2175.1	2175.1	2170.0	2180.2
35°	2012.1	2017.2	2007.0	2022.2	2022.2	2027.4	2017.2	2032.5
37.5°	1854.2	1859.2	1854.2	1859.2	1869.5	1854.2	1864.4	1869.5
40°	1691.2	1701.4	1696.2	1701.4	1701.4	1706.5	1701.4	1706.5
42.5°	1528.2	1538.4	1528.2	1543.5	1538.4	1538.4	1543.5	1543.5
45°	1360.1	1375.4	1365.1	1375.4	1380.5	1375.4	1375.4	1385.6
47.5°	1202.1	1212.4	1207.2	1212.4	1212.4	1212.4	1212.4	1222.5
50°	1044.2	1049.4	1049.4	1054.5	1054.5	1059.5	1049.4	1054.5
52.5°	886.4	896.5	896.5	896.5	891.5	896.5	896.5	896.5
55°	743.8	748.9	738.6	748.9	748.9	743.8	743.8	753.9
57.5°	606.1	606.1	606.1	606.1	606.1	601.1	606.1	606.1
60°	478.9	483.9	478.9	478.9	478.9	478.9	473.8	483.9
62.5°	371.9	371.9	366.8	371.9	371.9	371.9	377.0	377.0
65°	290.4	295.5	290.4	295.5	295.5	295.5	295.5	300.5
67.5°	229.2	229.2	229.2	229.2	229.2	229.2	229.2	229.2
70°	173.2	173.2	173.2	178.2	173.2	173.2	173.2	178.2
72.5°	127.4	127.4	127.4	127.4	127.4	127.4	132.5	132.5
75°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
77.5°	61.1	61.1	61.1	66.2	61.1	66.2	61.1	61.1
80°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
82.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
87.5°	10.2	10.2	10.2	10.2	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



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













(END OF REPORT)