

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: P252403

Luminaire Tested: **LE_6B50D010R EC6B30508035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252403
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_6B50D010R EC6B30508035 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: 6196.2 lumens
Efficiency: N/A
Efficacy: 105.4 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

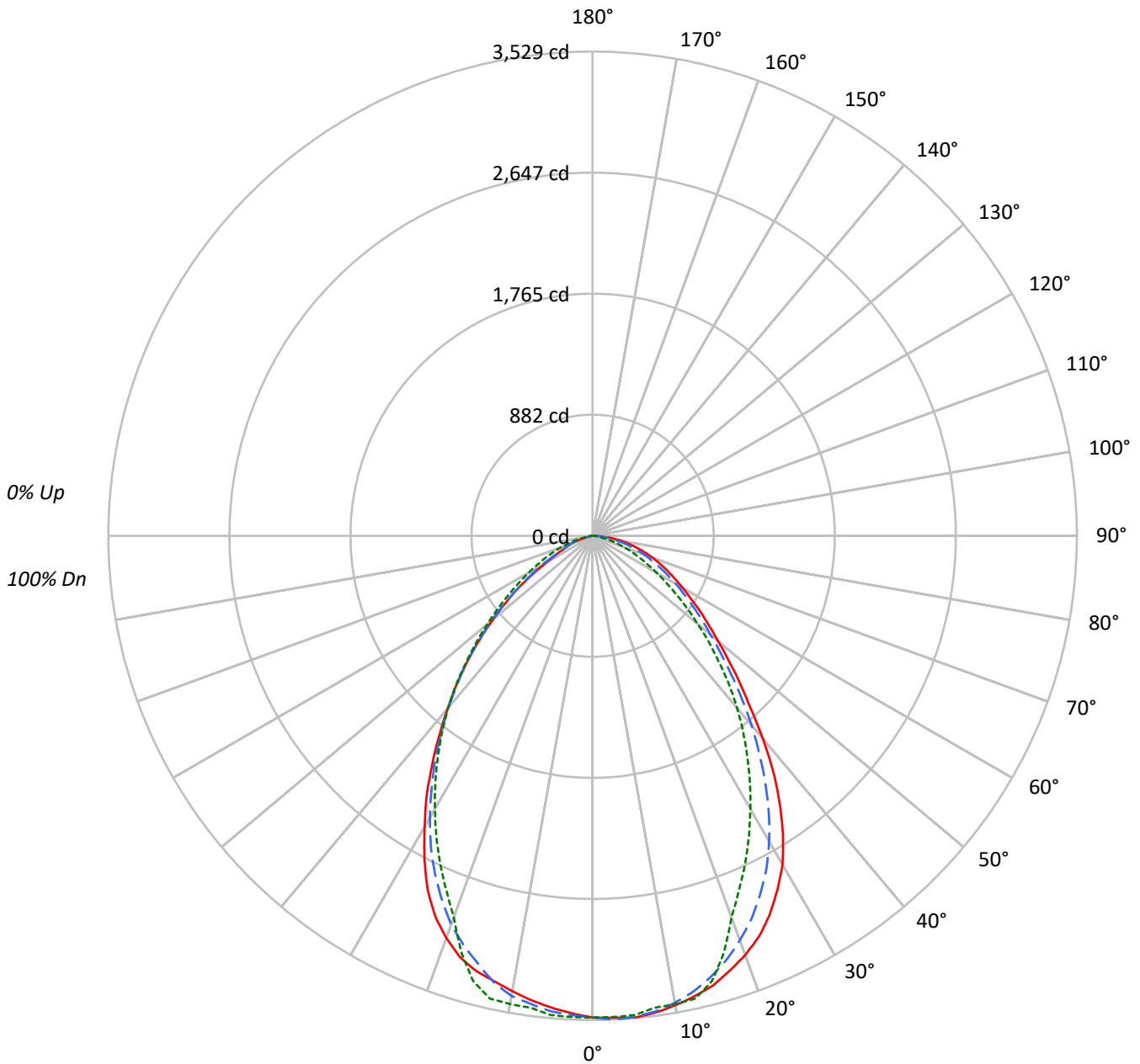
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	229053	229053	229053
5°	230819	229620	226045
10°	230169	229559	223219
15°	229116	226968	221734
20°	225709	205443	216531
25°	219583	189386	204805
30°	208493	173116	184454
35°	189195	156509	162323
40°	164250	139408	139791
45°	140094	119897	118633
50°	121248	101344	95802
55°	108398	84534	74161
60°	98761	70199	49974
65°	92191	57720	37296
70°	87841	46963	31302
75°	82730	33324	10335
80°	78823	17132	3419
85°	64825	10180	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.5	5.4
10°-20°	927.3	15.0
20°-30°	1279.9	20.7
30°-40°	1302.5	21.0
40°-50°	1046.8	16.9
50°-60°	696.0	11.2
60°-70°	396.6	6.4
70°-80°	178.1	2.9
80°-90°	37.5	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°	2538.7	41.0
0°-40°	3841.2	62.0
0°-60°	5584.0	90.1
0°-90°	6196.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6196.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3511	3511	3511	3511	3511	
5°	3524	3520	3506	3479	3452	335
15°	3392	3328	3360	3228	3283	955
25°	3050	2886	2631	2718	2845	1398
35°	2376	2193	1965	2002	2038	1476
45°	1518	1427	1300	1286	1286	1177
55°	953	889	743	661	652	856
65°	597	534	374	242	242	595
75°	328	274	132	55	41	350
85°	87	59	14	4	0	103
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°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3515.4	3533.6	3529.1	3524.5	3529.1	3524.5	3515.4	3515.4	3506.2	3506.2	3529.1
5°	3524.5	3533.6	3529.1	3524.5	3524.5	3529.1	3510.9	3510.9	3501.8	3497.1	3520.0
7.5°	3506.2	3520.0	3510.9	3510.9	3506.2	3510.9	3492.6	3492.6	3478.9	3474.4	3497.1
10°	3474.4	3492.6	3483.5	3483.5	3483.5	3474.4	3465.2	3460.8	3447.0	3442.5	3456.1
12.5°	3437.9	3451.6	3447.0	3437.9	3437.9	3437.9	3419.6	3415.1	3396.9	3387.8	3401.4
15°	3392.2	3401.4	3396.9	3392.2	3383.1	3383.1	3365.0	3355.9	3337.6	3319.4	3328.5
17.5°	3323.9	3337.6	3328.5	3323.9	3310.2	3310.2	3292.0	3282.9	3255.5	3237.2	3241.9
20°	3251.0	3255.5	3251.0	3241.9	3228.1	3223.6	3205.4	3187.1	3164.4	3141.5	3137.0
22.5°	3164.4	3168.9	3155.2	3146.1	3132.4	3127.9	3105.0	3091.4	3054.9	3027.5	3023.0
25°	3050.4	3054.9	3054.9	3032.1	3023.0	3013.9	2991.0	2968.2	2936.4	2899.9	2886.2
27.5°	2913.5	2927.2	2918.1	2895.2	2877.1	2872.5	2849.8	2831.5	2790.5	2758.5	2740.2
30°	2767.6	2763.1	2758.5	2744.9	2717.5	2712.9	2690.1	2667.4	2635.4	2594.4	2571.6
32.5°	2580.8	2580.8	2576.1	2562.5	2535.1	2526.0	2507.8	2480.4	2443.9	2412.0	2389.2
35°	2375.5	2380.1	2375.5	2348.1	2329.9	2320.8	2311.8	2279.8	2247.9	2211.4	2193.1
37.5°	2161.2	2147.5	2152.1	2129.2	2106.5	2115.6	2088.2	2074.6	2038.1	2010.8	1992.5
40°	1928.6	1937.8	1919.6	1910.5	1896.8	1883.1	1883.1	1860.2	1842.0	1810.1	1801.0
42.5°	1700.8	1714.4	1709.9	1700.8	1682.5	1687.0	1664.2	1655.1	1632.4	1618.6	1605.0
45°	1518.4	1518.4	1518.4	1509.2	1504.6	1495.5	1481.9	1468.1	1454.5	1436.2	1427.1
47.5°	1340.5	1340.5	1345.1	1336.0	1326.9	1322.2	1313.1	1313.1	1290.4	1272.1	1263.0
50°	1194.6	1194.6	1194.6	1185.5	1176.4	1176.4	1167.2	1158.1	1144.5	1130.8	1121.6
52.5°	1062.4	1062.4	1062.4	1053.2	1048.8	1044.1	1039.6	1035.0	1016.8	1007.6	998.5
55°	953.0	948.4	948.4	943.9	934.8	934.8	930.1	921.0	907.4	893.6	889.1
57.5°	843.5	848.1	843.5	843.5	834.4	834.4	825.2	820.8	807.0	797.9	788.8
60°	756.9	756.9	756.9	752.4	743.2	747.8	738.6	734.1	720.4	706.8	697.6
62.5°	670.2	674.8	674.8	670.2	661.1	661.1	656.6	652.0	638.4	624.6	611.0
65°	597.2	597.2	597.2	592.8	588.1	588.1	583.6	579.0	565.4	547.1	533.5
67.5°	528.9	524.4	524.4	524.4	519.8	515.2	510.6	506.1	492.4	478.8	460.5
70°	460.5	460.5	460.5	456.0	446.9	451.4	446.9	442.2	428.6	414.9	401.2
72.5°	396.6	396.6	392.1	387.5	387.5	383.0	383.0	378.5	364.8	346.5	332.9
75°	328.2	328.2	328.2	328.2	319.1	323.8	314.6	310.0	300.9	287.2	273.6
77.5°	269.0	269.0	269.0	264.5	259.9	259.9	255.4	250.8	237.1	228.0	209.8
80°	209.8	209.8	209.8	209.8	205.1	200.6	196.0	191.5	182.4	168.8	155.0
82.5°	155.0	155.0	150.5	150.5	150.5	145.9	141.4	136.8	127.6	118.5	109.4
85°	86.6	91.2	91.2	82.1	86.6	82.1	82.1	73.0	73.0	63.9	59.2
87.5°	31.9	27.4	27.4	27.4	27.4	27.4	27.4	22.8	22.8	22.8	18.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3510.9	3506.2	3524.5	3524.5	3497.1	3510.9	3515.4	3506.2	3506.2	3510.9	3497.1
5°	3501.8	3492.6	3510.9	3515.4	3488.0	3501.8	3506.2	3497.1	3501.8	3506.2	3488.0
7.5°	3469.8	3469.8	3483.5	3488.0	3460.8	3474.4	3474.4	3465.2	3469.8	3469.8	3456.1
10°	3437.9	3424.2	3437.9	3437.9	3415.1	3419.6	3428.8	3424.2	3442.5	3465.2	3465.2
12.5°	3378.6	3365.0	3387.8	3387.8	3374.0	3392.2	3415.1	3428.8	3447.0	3456.1	3428.8
15°	3305.6	3310.2	3351.2	3383.1	3369.5	3396.9	3419.6	3410.5	3387.8	3360.4	3319.4
17.5°	3209.9	3196.2	3232.8	3251.0	3232.8	3241.9	3260.1	3241.9	3205.4	3182.5	3127.9
20°	3100.5	3064.0	3064.0	3054.9	3023.0	3023.0	3018.4	2986.5	2972.9	2959.1	2936.4
22.5°	2977.4	2936.4	2922.6	2895.2	2868.0	2863.4	2849.8	2817.8	2799.5	2790.5	2763.1
25°	2836.0	2799.5	2776.8	2749.4	2708.4	2699.2	2685.6	2653.6	2644.5	2630.9	2608.0
27.5°	2690.1	2644.5	2612.6	2585.2	2548.8	2544.2	2516.9	2494.1	2475.9	2466.8	2448.5
30°	2521.4	2471.2	2448.5	2412.0	2384.6	2375.5	2352.8	2320.8	2307.1	2298.0	2284.4
32.5°	2334.5	2293.5	2270.6	2238.8	2202.2	2206.9	2179.5	2152.1	2143.0	2133.9	2120.1
35°	2152.1	2111.1	2083.8	2056.4	2033.5	2024.4	2006.2	1983.4	1969.8	1965.1	1956.0
37.5°	1951.5	1919.6	1896.8	1869.4	1851.1	1842.0	1832.9	1810.1	1801.0	1801.0	1782.8
40°	1755.4	1728.1	1709.9	1696.1	1673.4	1668.8	1659.6	1646.0	1641.4	1636.9	1623.2
42.5°	1577.6	1541.1	1527.5	1518.4	1504.6	1495.5	1491.0	1481.9	1477.2	1472.8	1459.0
45°	1408.9	1377.0	1363.2	1354.1	1340.5	1336.0	1331.4	1317.8	1308.6	1299.5	1294.9
47.5°	1244.8	1222.0	1217.4	1194.6	1185.5	1176.4	1167.2	1158.1	1153.6	1149.0	1130.8
50°	1103.4	1089.8	1066.9	1053.2	1044.1	1039.6	1021.4	1007.6	1003.1	998.5	984.9
52.5°	975.8	957.5	943.9	921.0	916.5	907.4	898.2	880.0	870.9	866.4	852.6
55°	861.8	848.1	829.9	811.6	797.9	793.4	779.6	761.5	752.4	743.2	734.1
57.5°	766.0	743.2	725.0	706.8	697.6	683.9	670.2	661.1	647.5	633.8	620.1
60°	674.8	656.6	633.8	615.5	606.4	597.2	579.0	565.4	551.8	538.0	524.4
62.5°	588.1	570.0	547.1	528.9	519.8	510.6	492.4	478.8	465.1	451.4	433.1
65°	510.6	492.4	474.2	456.0	446.9	437.8	419.5	401.2	387.5	373.9	355.6
67.5°	446.9	424.0	405.8	387.5	378.5	369.4	351.1	337.4	319.1	305.5	287.2
70°	378.5	360.2	346.5	328.2	319.1	310.0	291.8	273.6	259.9	246.2	228.0
72.5°	319.1	296.4	282.8	264.5	255.4	250.8	232.5	218.9	205.1	187.0	173.2
75°	255.4	237.1	218.9	205.1	196.0	191.5	173.2	159.6	145.9	132.2	118.5
77.5°	196.0	182.4	164.1	150.5	141.4	136.8	118.5	104.9	91.2	82.1	68.4
80°	145.9	127.6	118.5	104.9	100.2	91.2	82.1	68.4	59.2	45.6	36.5
82.5°	100.2	86.6	77.5	68.4	63.9	59.2	50.1	41.0	31.9	27.4	22.8
85°	54.8	45.6	41.0	36.5	31.9	31.9	27.4	22.8	18.2	13.6	9.1
87.5°	18.2	13.6	13.6	13.6	13.6	9.1	9.1	9.1	4.5	4.5	4.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3506.2	3506.2	3506.2	3501.8	3501.8	3501.8	3497.1	3515.4	3497.1	3492.6	3506.2
5°	3501.8	3492.6	3492.6	3492.6	3492.6	3488.0	3483.5	3492.6	3478.9	3474.4	3474.4
7.5°	3474.4	3469.8	3469.8	3465.2	3460.8	3456.1	3451.6	3456.1	3442.5	3437.9	3437.9
10°	3478.9	3469.8	3469.8	3456.1	3447.0	3433.4	3419.6	3424.2	3406.0	3392.2	3392.2
12.5°	3424.2	3401.4	3387.8	3374.0	3365.0	3360.4	3342.1	3351.2	3333.0	3328.5	3328.5
15°	3301.1	3273.8	3251.0	3241.9	3241.9	3232.8	3219.0	3237.2	3228.1	3232.8	3255.5
17.5°	3109.6	3095.9	3082.2	3077.8	3082.2	3091.4	3100.5	3127.9	3127.9	3141.5	3164.4
20°	2940.9	2931.8	2940.9	2940.9	2945.5	2963.8	2982.0	3004.8	3013.9	3027.5	3059.5
22.5°	2776.8	2776.8	2785.9	2799.5	2795.0	2826.9	2831.5	2872.5	2872.5	2899.9	2927.2
25°	2617.1	2617.1	2626.2	2630.9	2640.0	2658.2	2676.5	2708.4	2717.5	2744.9	2767.6
27.5°	2462.1	2457.6	2457.6	2462.1	2471.2	2494.1	2503.2	2539.6	2553.4	2571.6	2594.4
30°	2288.9	2284.4	2293.5	2302.6	2298.0	2320.8	2334.5	2361.9	2371.0	2389.2	2407.5
32.5°	2124.8	2124.8	2124.8	2133.9	2133.9	2152.1	2152.1	2184.0	2184.0	2197.8	2215.9
35°	1956.0	1956.0	1960.6	1965.1	1969.8	1974.2	1978.9	1997.1	2001.6	2006.2	2015.4
37.5°	1796.5	1791.9	1796.5	1796.5	1787.4	1805.6	1805.6	1823.9	1810.1	1823.9	1828.4
40°	1632.4	1632.4	1627.8	1627.8	1627.8	1636.9	1627.8	1641.4	1632.4	1641.4	1636.9
42.5°	1463.6	1463.6	1454.5	1463.6	1459.0	1459.0	1459.0	1468.1	1454.5	1463.6	1468.1
45°	1294.9	1290.4	1290.4	1285.8	1285.8	1285.8	1290.4	1290.4	1285.8	1294.9	1294.9
47.5°	1130.8	1126.2	1126.2	1126.2	1126.2	1130.8	1117.1	1126.2	1117.1	1117.1	1117.1
50°	989.4	984.9	980.2	975.8	971.1	971.1	966.6	966.6	957.5	953.0	948.4
52.5°	852.6	848.1	839.0	839.0	834.4	829.9	816.1	816.1	802.5	797.9	797.9
55°	729.5	715.9	711.2	702.1	702.1	693.0	683.9	674.8	661.1	652.0	652.0
57.5°	615.5	601.9	592.8	588.1	583.6	574.5	556.2	551.8	533.5	528.9	524.4
60°	515.2	501.5	487.9	478.8	474.2	460.5	442.2	433.1	424.0	410.4	396.6
62.5°	419.5	405.8	387.5	383.0	373.9	360.2	346.5	332.9	323.8	310.0	300.9
65°	337.4	323.8	310.0	300.9	291.8	278.1	264.5	250.8	241.6	237.1	232.5
67.5°	273.6	255.4	241.6	237.1	228.0	218.9	205.1	200.6	191.5	191.5	191.5
70°	214.2	200.6	187.0	182.4	177.9	168.8	159.6	159.6	159.6	159.6	159.6
72.5°	159.6	150.5	136.8	132.2	127.6	123.1	114.0	118.5	114.0	114.0	114.0
75°	100.2	91.2	82.1	77.5	73.0	68.4	63.9	59.2	54.8	50.1	50.1
77.5°	54.8	45.6	41.0	36.5	36.5	31.9	27.4	27.4	22.8	22.8	22.8
80°	31.9	27.4	22.8	18.2	18.2	13.6	13.6	13.6	13.6	9.1	9.1
82.5°	18.2	13.6	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	4.5
85°	9.1	9.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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: P252403

CATALOG NUMBER: LE_6B50D010R EC6B30508035 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3483.5	3497.1	3483.5	3497.1	3497.1	3497.1	3497.1	3483.5
5°	3460.8	3469.8	3456.1	3465.2	3469.8	3465.2	3465.2	3451.6
7.5°	3419.6	3428.8	3415.1	3428.8	3433.4	3428.8	3424.2	3415.1
10°	3378.6	3383.1	3369.5	3378.6	3387.8	3387.8	3383.1	3369.5
12.5°	3314.8	3328.5	3314.8	3323.9	3333.0	3337.6	3337.6	3323.9
15°	3241.9	3264.6	3255.5	3269.2	3282.9	3287.4	3287.4	3282.9
17.5°	3168.9	3191.6	3178.0	3200.8	3214.5	3223.6	3228.1	3219.0
20°	3064.0	3091.4	3082.2	3100.5	3118.8	3132.4	3132.4	3118.8
22.5°	2927.2	2963.8	2959.1	2972.9	2995.6	3000.1	3009.2	3000.1
25°	2776.8	2804.1	2799.5	2813.2	2840.6	2840.6	2845.1	2845.1
27.5°	2603.5	2630.9	2626.2	2635.4	2653.6	2658.2	2662.8	2653.6
30°	2416.5	2430.2	2430.2	2443.9	2457.6	2462.1	2462.1	2448.5
32.5°	2211.4	2229.6	2238.8	2234.1	2247.9	2257.0	2252.4	2252.4
35°	2024.4	2029.0	2033.5	2038.1	2042.6	2051.8	2042.6	2038.1
37.5°	1823.9	1837.5	1828.4	1837.5	1846.6	1842.0	1837.5	1837.5
40°	1641.4	1646.0	1636.9	1646.0	1650.5	1650.5	1650.5	1641.4
42.5°	1459.0	1468.1	1459.0	1468.1	1468.1	1468.1	1468.1	1463.6
45°	1276.6	1285.8	1285.8	1290.4	1290.4	1285.8	1285.8	1285.8
47.5°	1108.0	1117.1	1108.0	1117.1	1121.6	1112.5	1112.5	1112.5
50°	948.4	943.9	943.9	948.4	948.4	948.4	948.4	943.9
52.5°	784.2	788.8	788.8	788.8	793.4	788.8	793.4	793.4
55°	642.9	642.9	642.9	647.5	642.9	642.9	647.5	652.0
57.5°	515.2	510.6	506.1	506.1	510.6	506.1	506.1	506.1
60°	396.6	392.1	387.5	387.5	387.5	387.5	387.5	383.0
62.5°	296.4	296.4	296.4	300.9	300.9	300.9	300.9	305.5
65°	237.1	237.1	237.1	237.1	237.1	237.1	237.1	241.6
67.5°	191.5	191.5	191.5	196.0	196.0	196.0	196.0	196.0
70°	159.6	159.6	164.1	159.6	164.1	164.1	164.1	164.1
72.5°	109.4	109.4	109.4	109.4	109.4	104.9	109.4	104.9
75°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	41.0
77.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	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)