

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: P252528

Luminaire Tested: **LE_6B60D010R EC6B60709050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252528
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 EC6B60709050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5523.7 lumens
Efficiency: N/A
Efficacy: 88.4 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

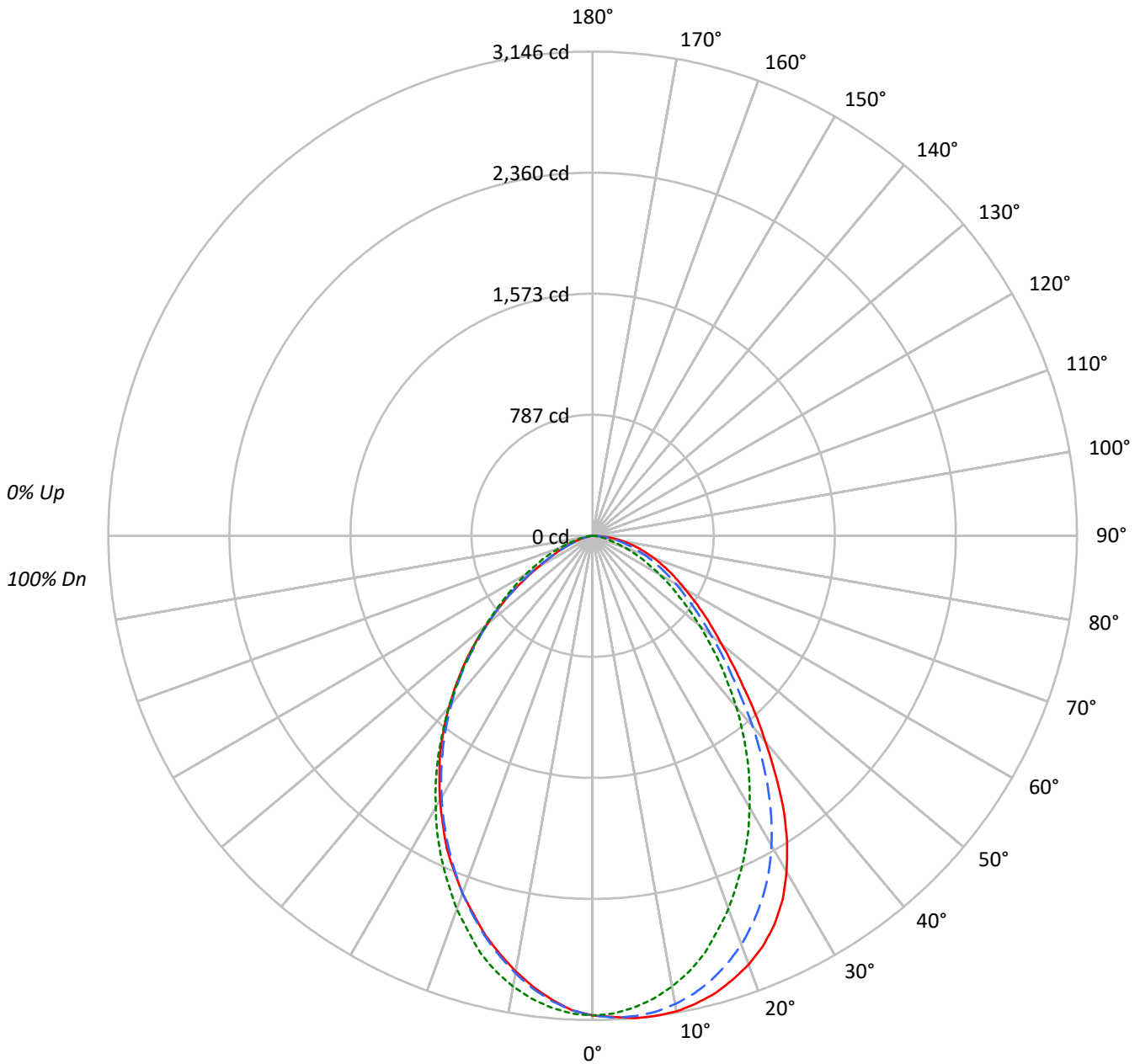
Input Watts (W): 62.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252528

CATALOG NUMBER: LE_6B60D010R EC6B60709050 6LBLWW1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	203303	203303	203303
5°	206064	201525	198133
10°	207877	196979	190387
15°	207840	189719	181540
20°	205839	179089	171583
25°	200954	166998	161391
30°	189765	153567	149326
35°	172015	139258	137537
40°	148546	123848	123482
45°	127380	107820	108613
50°	110692	92250	90931
55°	99435	77789	72853
60°	90358	65502	53641
65°	84843	54123	39427
70°	80897	42118	28899
75°	77436	30526	19636
80°	73187	21115	12999
85°	64750	12875	6438



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CATALOG NUMBER: LE_6B60D010R EC6B60709050 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	5.3
10°-20°	798.4	14.5
20°-30°	1108.3	20.1
30°-40°	1148.0	20.8
40°-50°	943.4	17.1
50°-60°	648.4	11.7
60°-70°	372.7	6.7
70°-80°	171.3	3.1
80°-90°	41.7	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°	2198.2	39.8
0°-40°	3346.2	60.6
0°-60°	4938.0	89.4
0°-90°	5523.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3116	3116	3116	3116	3116	
5°	3146	3134	3077	3034	3025	300
15°	3077	2986	2809	2696	2688	867
25°	2792	2606	2320	2220	2242	1277
35°	2160	1982	1748	1697	1727	1339
45°	1381	1277	1169	1156	1177	1075
55°	874	792	684	645	640	787
65°	550	480	351	247	255	547
75°	307	242	121	78	78	325
85°	86	61	17	9	9	97
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°	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2
2.5°	3129.2	3155.1	3137.9	3133.5	3142.1	3142.1	3142.1	3129.2	3137.9	3124.9	3133.5
5°	3146.5	3168.1	3150.9	3142.1	3150.9	3155.1	3142.1	3133.5	3146.5	3129.2	3133.5
7.5°	3146.5	3168.1	3150.9	3146.5	3150.9	3150.9	3146.5	3129.2	3137.9	3120.5	3120.5
10°	3137.9	3155.1	3137.9	3129.2	3133.5	3129.2	3129.2	3107.5	3111.9	3090.2	3090.2
12.5°	3111.9	3133.5	3111.9	3103.2	3103.2	3103.2	3090.2	3072.9	3077.2	3051.2	3047.0
15°	3077.2	3094.6	3072.9	3064.2	3064.2	3060.0	3051.2	3025.4	3025.4	2999.4	2986.4
17.5°	3025.4	3042.6	3025.4	3012.4	3008.0	2999.4	2990.8	2964.8	2956.1	2925.8	2912.8
20°	2964.8	2977.8	2960.4	2947.4	2938.8	2930.1	2912.8	2886.9	2878.1	2847.9	2826.2
22.5°	2886.9	2904.1	2878.1	2865.1	2856.5	2843.5	2826.2	2800.2	2787.2	2748.4	2722.4
25°	2791.6	2800.2	2778.6	2765.6	2748.4	2739.6	2726.6	2692.0	2679.1	2635.8	2605.5
27.5°	2670.4	2679.1	2653.1	2644.5	2622.8	2614.1	2596.9	2566.5	2549.2	2506.0	2475.6
30°	2519.0	2527.6	2510.2	2497.2	2480.0	2462.6	2449.8	2419.4	2393.4	2350.1	2324.1
32.5°	2350.1	2363.1	2345.9	2328.5	2298.2	2302.5	2280.9	2250.6	2229.0	2190.0	2159.8
35°	2159.8	2168.4	2146.8	2142.4	2125.1	2107.8	2086.1	2064.5	2051.5	2008.2	1982.2
37.5°	1947.6	1969.2	1947.6	1930.4	1921.6	1908.6	1895.8	1865.4	1856.8	1830.8	1796.1
40°	1744.2	1757.2	1744.2	1726.9	1713.9	1713.9	1696.6	1679.2	1657.6	1631.6	1618.8
42.5°	1562.4	1553.8	1549.5	1540.8	1523.5	1519.1	1514.9	1493.1	1480.2	1454.2	1432.6
45°	1380.6	1385.0	1376.4	1372.0	1359.0	1350.4	1341.8	1324.4	1320.0	1294.1	1276.8
47.5°	1229.1	1224.9	1216.2	1216.2	1207.5	1198.9	1190.2	1177.2	1172.9	1151.2	1134.0
50°	1090.6	1095.0	1090.6	1086.4	1073.4	1069.0	1060.4	1051.8	1043.1	1021.4	1004.1
52.5°	978.1	973.9	969.5	969.5	956.5	952.1	943.5	934.9	926.2	904.6	891.6
55°	874.2	874.2	870.0	865.6	852.6	848.2	844.0	835.4	822.4	805.0	792.0
57.5°	779.0	779.0	774.8	770.4	761.8	761.8	753.1	744.4	735.8	718.5	701.1
60°	692.5	696.9	692.5	688.1	679.5	679.5	675.1	662.2	657.9	636.2	623.2
62.5°	618.9	618.9	618.9	614.6	610.2	601.6	601.6	588.6	580.0	567.0	549.6
65°	549.6	549.6	549.6	545.4	536.6	532.4	528.0	519.4	510.8	497.8	480.4
67.5°	484.8	484.8	484.8	480.4	471.8	467.4	463.1	458.8	445.8	432.8	415.5
70°	424.1	424.1	419.9	415.5	411.1	406.9	402.5	393.9	385.2	367.9	354.9
72.5°	363.5	363.5	363.5	354.9	350.6	350.6	341.9	337.6	328.9	311.6	298.6
75°	307.2	303.0	303.0	298.6	294.2	290.0	285.6	281.4	268.4	259.6	242.4
77.5°	251.0	251.0	246.8	242.4	242.4	238.0	233.8	225.0	220.8	207.8	194.8
80°	194.8	194.8	194.8	194.8	190.4	186.1	186.1	177.5	173.1	160.1	151.5
82.5°	147.1	142.9	142.9	142.9	138.5	134.1	134.1	129.9	125.5	116.9	108.2
85°	86.5	82.2	82.2	82.2	77.9	77.9	73.6	73.6	69.2	60.6	60.6
87.5°	26.0	26.0	30.2	30.2	26.0	26.0	26.0	26.0	26.0	21.6	21.6
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: P252528

CATALOG NUMBER: LE_6B60D010R EC6B60709050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2
2.5°	3124.9	3137.9	3120.5	3116.2	3133.5	3124.9	3120.5	3111.9	3116.2	3107.5	3094.6
5°	3120.5	3137.9	3116.2	3103.2	3124.9	3111.9	3103.2	3094.6	3094.6	3077.2	3068.6
7.5°	3107.5	3116.2	3094.6	3081.6	3094.6	3081.6	3072.9	3060.0	3055.6	3034.0	3021.0
10°	3072.9	3081.6	3055.6	3038.2	3051.2	3034.0	3021.0	3008.0	2999.4	2973.4	2956.1
12.5°	3025.4	3029.6	2999.4	2977.8	2986.4	2973.4	2951.8	2934.4	2925.8	2899.8	2878.1
15°	2960.4	2964.8	2930.1	2899.8	2908.5	2891.1	2865.1	2847.9	2834.9	2808.9	2778.6
17.5°	2882.5	2878.1	2839.2	2808.9	2813.2	2791.6	2765.6	2739.6	2722.4	2692.0	2670.4
20°	2795.9	2783.0	2739.6	2705.0	2709.4	2683.4	2653.1	2627.1	2605.5	2579.5	2549.2
22.5°	2687.8	2670.4	2631.5	2588.2	2592.5	2570.9	2527.6	2506.0	2484.4	2449.8	2423.8
25°	2570.9	2544.9	2506.0	2462.6	2462.6	2436.8	2402.1	2376.1	2354.5	2319.9	2289.5
27.5°	2432.4	2419.4	2367.5	2332.9	2328.5	2302.5	2272.2	2242.0	2216.0	2185.6	2155.4
30°	2280.9	2259.2	2220.2	2181.4	2172.8	2151.0	2120.8	2086.1	2068.9	2038.5	2012.5
32.5°	2120.8	2099.1	2055.9	2016.9	2012.5	1995.2	1969.2	1934.6	1917.4	1895.8	1878.4
35°	1939.0	1930.4	1887.0	1856.8	1856.8	1839.4	1813.5	1783.1	1770.1	1748.5	1726.9
37.5°	1765.9	1752.9	1713.9	1688.0	1688.0	1666.2	1640.4	1627.4	1614.4	1597.0	1584.1
40°	1584.1	1575.4	1545.1	1519.1	1523.5	1506.1	1488.9	1471.5	1462.9	1454.2	1441.2
42.5°	1415.2	1406.6	1385.0	1363.4	1363.4	1350.4	1333.0	1320.0	1311.4	1298.4	1294.1
45°	1263.8	1250.9	1233.5	1211.9	1211.9	1198.9	1190.2	1181.6	1177.2	1168.6	1155.6
47.5°	1116.6	1108.0	1090.6	1069.0	1069.0	1069.0	1051.8	1038.8	1038.8	1030.1	1025.8
50°	991.1	978.1	965.1	947.9	947.9	939.2	926.2	913.2	913.2	908.9	900.2
52.5°	874.2	865.6	848.2	831.0	831.0	822.4	809.4	805.0	800.8	787.8	783.4
55°	774.8	766.1	753.1	731.5	727.1	722.8	709.8	701.1	696.9	683.9	683.9
57.5°	683.9	675.1	653.5	640.5	636.2	627.6	614.6	605.9	601.6	593.0	584.2
60°	605.9	593.0	575.6	558.4	554.0	545.4	532.4	523.8	519.4	502.0	493.4
62.5°	532.4	519.4	502.0	484.8	480.4	471.8	454.5	445.8	437.1	419.9	411.1
65°	463.1	450.1	432.8	415.5	406.9	402.5	385.2	372.2	363.5	350.6	333.2
67.5°	398.1	385.2	367.9	346.2	346.2	333.2	320.2	307.2	294.2	281.4	268.4
70°	337.6	324.6	307.2	290.0	285.6	277.0	264.0	246.8	238.0	220.8	207.8
72.5°	281.4	268.4	251.0	233.8	229.4	220.8	207.8	190.4	177.5	164.5	151.5
75°	229.4	216.4	199.1	186.1	181.8	173.1	160.1	142.9	129.9	121.1	108.2
77.5°	181.8	168.8	155.8	142.9	138.5	129.9	116.9	108.2	95.2	86.5	73.6
80°	138.5	129.9	116.9	108.2	103.9	95.2	86.5	73.6	64.9	56.2	51.9
82.5°	99.5	90.9	82.2	69.2	69.2	60.6	56.2	47.6	39.0	34.6	30.2
85°	56.2	47.6	43.2	39.0	34.6	34.6	30.2	26.0	21.6	17.2	17.2
87.5°	17.2	17.2	13.0	13.0	13.0	13.0	8.6	8.6	8.6	8.6	8.6
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: P252528

CATALOG NUMBER: LE_6B60D010R EC6B60709050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2
2.5°	3094.6	3098.9	3090.2	3098.9	3090.2	3094.6	3085.9	3094.6	3085.9	3094.6	3077.2
5°	3064.2	3064.2	3051.2	3060.0	3051.2	3055.6	3038.2	3042.6	3034.0	3042.6	3025.4
7.5°	3012.4	3016.6	2995.0	3003.6	2990.8	2990.8	2977.8	2982.0	2969.0	2973.4	2960.4
10°	2951.8	2947.4	2925.8	2934.4	2917.1	2917.1	2904.1	2904.1	2886.9	2891.1	2873.9
12.5°	2865.1	2860.9	2834.9	2843.5	2826.2	2826.2	2813.2	2813.2	2795.9	2804.6	2787.2
15°	2765.6	2761.2	2735.4	2739.6	2722.4	2722.4	2705.0	2709.4	2696.4	2705.0	2687.8
17.5°	2653.1	2648.8	2622.8	2627.1	2605.5	2609.9	2596.9	2592.5	2583.9	2588.2	2575.2
20°	2536.2	2527.6	2501.6	2506.0	2497.2	2484.4	2475.6	2480.0	2471.4	2480.0	2467.0
22.5°	2415.1	2397.8	2376.1	2376.1	2367.5	2367.5	2354.5	2363.1	2345.9	2358.8	2350.1
25°	2276.6	2263.6	2246.2	2254.9	2237.6	2237.6	2224.6	2229.0	2220.2	2229.0	2220.2
27.5°	2142.4	2133.8	2107.8	2116.4	2103.5	2107.8	2094.8	2099.1	2094.8	2103.5	2094.8
30°	1999.6	1995.2	1977.9	1977.9	1973.6	1969.2	1965.0	1965.0	1960.6	1973.6	1965.0
32.5°	1865.4	1852.4	1835.1	1848.1	1826.5	1839.4	1830.8	1839.4	1830.8	1839.4	1835.1
35°	1726.9	1722.6	1700.9	1705.2	1700.9	1700.9	1696.6	1696.6	1696.6	1709.6	1709.6
37.5°	1579.8	1575.4	1562.4	1566.8	1558.1	1553.8	1553.8	1562.4	1562.4	1571.1	1571.1
40°	1436.9	1441.2	1428.2	1428.2	1423.9	1423.9	1423.9	1432.6	1428.2	1436.9	1432.6
42.5°	1294.1	1294.1	1281.1	1285.5	1281.1	1285.5	1285.5	1294.1	1294.1	1298.4	1294.1
45°	1159.9	1159.9	1155.6	1159.9	1151.2	1155.6	1151.2	1159.9	1155.6	1159.9	1159.9
47.5°	1025.8	1025.8	1025.8	1021.4	1021.4	1021.4	1021.4	1021.4	1017.1	1025.8	1021.4
50°	900.2	904.6	900.2	900.2	895.9	900.2	895.9	895.9	887.2	891.6	891.6
52.5°	787.8	787.8	779.0	779.0	779.0	774.8	774.8	774.8	770.4	770.4	761.8
55°	679.5	679.5	670.9	670.9	666.5	662.2	657.9	657.9	644.9	644.9	631.9
57.5°	580.0	575.6	562.6	562.6	554.0	549.6	545.4	541.0	532.4	523.8	519.4
60°	489.1	480.4	471.8	467.4	458.8	450.1	441.5	432.8	424.1	419.9	415.5
62.5°	402.5	389.5	380.9	376.5	367.9	354.9	346.2	337.6	328.9	324.6	316.0
65°	324.6	311.6	298.6	294.2	285.6	277.0	264.0	255.4	246.8	242.4	242.4
67.5°	255.4	242.4	225.0	225.0	216.4	207.8	199.1	190.4	186.1	190.4	190.4
70°	190.4	181.8	168.8	164.5	155.8	147.1	142.9	142.9	142.9	147.1	142.9
72.5°	142.9	129.9	121.1	116.9	112.5	108.2	108.2	108.2	103.9	108.2	108.2
75°	99.5	90.9	82.2	82.2	77.9	77.9	77.9	77.9	77.9	77.9	77.9
77.5°	69.2	60.6	56.2	56.2	56.2	51.9	51.9	51.9	51.9	51.9	51.9
80°	43.2	43.2	39.0	39.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6
82.5°	26.0	26.0	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
85°	13.0	13.0	13.0	13.0	13.0	8.6	8.6	8.6	8.6	8.6	8.6
87.5°	4.4	4.4	4.4	4.4	4.4	8.6	8.6	8.6	8.6	8.6	8.6
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: P252528

CATALOG NUMBER: LE_6B60D010R EC6B60709050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2	3116.2
2.5°	3077.2	3090.2	3072.9	3085.9	3081.6	3077.2	3068.6	3085.9
5°	3025.4	3029.6	3012.4	3029.6	3025.4	3016.6	3008.0	3025.4
7.5°	2951.8	2964.8	2943.1	2960.4	2956.1	2947.4	2938.8	2956.1
10°	2869.5	2882.5	2865.1	2878.1	2878.1	2869.5	2856.5	2873.9
12.5°	2778.6	2787.2	2770.0	2787.2	2783.0	2774.2	2770.0	2783.0
15°	2679.1	2692.0	2674.8	2687.8	2683.4	2679.1	2674.8	2687.8
17.5°	2570.9	2583.9	2570.9	2583.9	2583.9	2570.9	2566.5	2575.2
20°	2462.6	2471.4	2458.4	2471.4	2467.0	2467.0	2458.4	2471.4
22.5°	2341.5	2354.5	2345.9	2354.5	2350.1	2350.1	2345.9	2354.5
25°	2220.2	2233.2	2220.2	2233.2	2229.0	2229.0	2220.2	2242.0
27.5°	2099.1	2107.8	2094.8	2112.1	2107.8	2099.1	2103.5	2107.8
30°	1969.2	1977.9	1969.2	1982.2	1982.2	1982.2	1973.6	1982.2
32.5°	1839.4	1852.4	1839.4	1852.4	1848.1	1848.1	1843.8	1852.4
35°	1709.6	1713.9	1705.2	1718.2	1718.2	1722.6	1713.9	1726.9
37.5°	1575.4	1579.8	1575.4	1579.8	1588.4	1575.4	1584.1	1588.4
40°	1436.9	1445.6	1441.2	1445.6	1445.6	1449.9	1445.6	1449.9
42.5°	1298.4	1307.1	1298.4	1311.4	1307.1	1307.1	1311.4	1311.4
45°	1155.6	1168.6	1159.9	1168.6	1172.9	1168.6	1168.6	1177.2
47.5°	1021.4	1030.1	1025.8	1030.1	1030.1	1030.1	1030.1	1038.8
50°	887.2	891.6	891.6	895.9	895.9	900.2	891.6	895.9
52.5°	753.1	761.8	761.8	761.8	757.4	761.8	761.8	761.8
55°	631.9	636.2	627.6	636.2	636.2	631.9	631.9	640.5
57.5°	515.0	515.0	515.0	515.0	515.0	510.8	515.0	515.0
60°	406.9	411.1	406.9	406.9	406.9	406.9	402.5	411.1
62.5°	316.0	316.0	311.6	316.0	316.0	316.0	320.2	320.2
65°	246.8	251.0	246.8	251.0	251.0	251.0	251.0	255.4
67.5°	194.8	194.8	194.8	194.8	194.8	194.8	194.8	194.8
70°	147.1	147.1	147.1	151.5	147.1	147.1	147.1	151.5
72.5°	108.2	108.2	108.2	108.2	108.2	108.2	112.5	112.5
75°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
77.5°	51.9	51.9	51.9	56.2	51.9	56.2	51.9	51.9
80°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
82.5°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
85°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
87.5°	8.6	8.6	8.6	8.6	4.4	4.4	4.4	4.4
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)