

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: P252392

Luminaire Tested: **LE_6B40D010 EC6B30508050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252392
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_6B40D010 EC6B30508050 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: 4888.8 lumens
Efficiency: N/A
Efficacy: 113.7 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

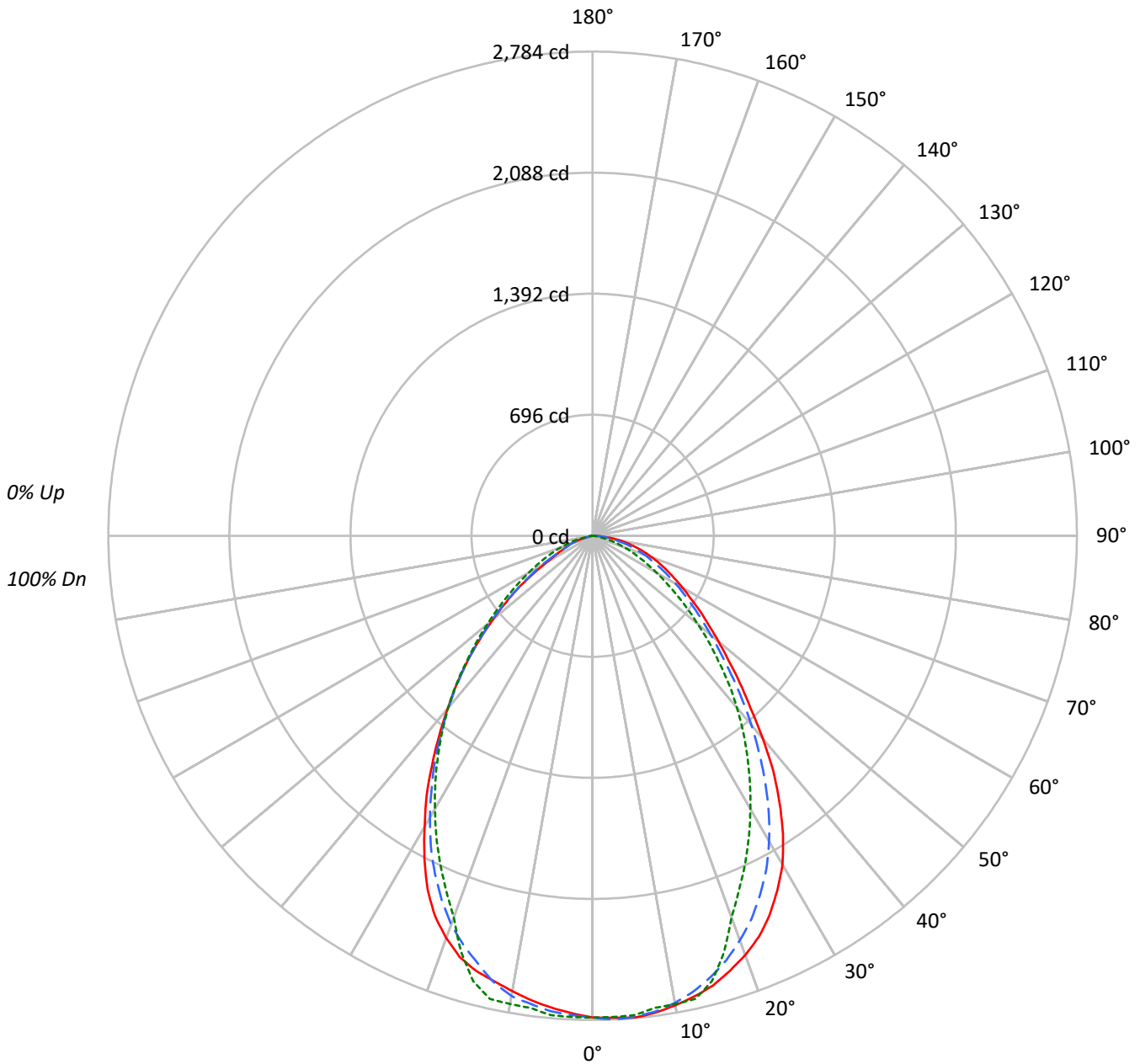
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	180717	180717	180717
5°	182114	181171	178342
10°	181596	181119	176118
15°	180776	179068	174941
20°	178082	162100	170834
25°	173239	149427	161592
30°	164498	136587	145529
35°	149269	123488	128068
40°	129605	109991	110298
45°	110532	94589	93602
50°	95660	79969	75574
55°	85524	66699	58510
60°	77910	55389	39418
65°	72740	45540	29423
70°	69319	37044	24702
75°	65286	26316	8167
80°	62179	13525	2705
85°	51201	8084	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	5.4
10°-20°	731.6	15.0
20°-30°	1009.9	20.7
30°-40°	1027.6	21.0
40°-50°	825.9	16.9
50°-60°	549.1	11.2
60°-70°	312.9	6.4
70°-80°	140.6	2.9
80°-90°	29.6	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°	2003.0	41.0
0°-40°	3030.7	62.0
0°-60°	4405.7	90.1
0°-90°	4888.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4888.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2770	2770	2770	2770	2770	
5°	2781	2777	2766	2745	2723	264
15°	2676	2626	2651	2547	2590	753
25°	2407	2277	2076	2144	2245	1103
35°	1874	1730	1550	1579	1608	1165
45°	1198	1126	1025	1014	1014	929
55°	752	702	586	522	514	676
65°	471	421	295	191	191	469
75°	259	216	104	43	32	277
85°	68	47	11	4	0	81
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°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2773.6	2788.0	2784.4	2780.8	2784.4	2780.8	2773.6	2773.6	2766.4	2766.4	2784.4
5°	2780.8	2788.0	2784.4	2780.8	2780.8	2784.4	2770.0	2770.0	2762.8	2759.2	2777.2
7.5°	2766.4	2777.2	2770.0	2770.0	2766.4	2770.0	2755.6	2755.6	2744.9	2741.2	2759.2
10°	2741.2	2755.6	2748.4	2748.4	2748.4	2741.2	2734.0	2730.4	2719.6	2716.0	2726.9
12.5°	2712.5	2723.2	2719.6	2712.5	2712.5	2712.5	2698.0	2694.5	2680.1	2672.9	2683.6
15°	2676.5	2683.6	2680.1	2676.5	2669.2	2669.2	2654.9	2647.8	2633.2	2618.9	2626.1
17.5°	2622.5	2633.2	2626.1	2622.5	2611.8	2611.8	2597.4	2590.1	2568.5	2554.1	2557.8
20°	2565.0	2568.5	2565.0	2557.8	2547.0	2543.4	2529.0	2514.6	2496.6	2478.6	2475.0
22.5°	2496.6	2500.2	2489.4	2482.2	2471.4	2467.9	2449.9	2439.0	2410.2	2388.6	2385.1
25°	2406.6	2410.2	2410.2	2392.2	2385.1	2377.9	2359.9	2341.9	2316.8	2288.0	2277.1
27.5°	2298.8	2309.5	2302.4	2284.4	2270.0	2266.4	2248.4	2234.0	2201.6	2176.4	2162.0
30°	2183.6	2180.0	2176.4	2165.6	2144.0	2140.5	2122.5	2104.5	2079.2	2046.9	2029.0
32.5°	2036.1	2036.1	2032.5	2021.8	2000.1	1993.0	1978.6	1957.0	1928.2	1903.0	1885.0
35°	1874.2	1877.9	1874.2	1852.6	1838.2	1831.1	1823.9	1798.8	1773.5	1744.8	1730.4
37.5°	1705.1	1694.4	1698.0	1680.0	1662.0	1669.2	1647.6	1636.9	1608.0	1586.5	1572.1
40°	1521.8	1528.9	1514.5	1507.4	1496.5	1485.8	1485.8	1467.8	1453.4	1428.1	1421.0
42.5°	1341.9	1352.6	1349.0	1341.9	1327.5	1331.0	1313.0	1305.9	1287.9	1277.1	1266.2
45°	1198.0	1198.0	1198.0	1190.8	1187.1	1180.0	1169.1	1158.4	1147.6	1133.1	1126.0
47.5°	1057.6	1057.6	1061.2	1054.0	1046.9	1043.2	1036.0	1036.0	1018.1	1003.6	996.5
50°	942.5	942.5	942.5	935.4	928.1	928.1	920.9	913.8	903.0	892.1	885.0
52.5°	838.2	838.2	838.2	831.0	827.4	823.8	820.2	816.6	802.2	795.0	787.9
55°	751.9	748.2	748.2	744.6	737.5	737.5	733.9	726.6	715.9	705.1	701.5
57.5°	665.5	669.1	665.5	665.5	658.4	658.4	651.1	647.5	636.8	629.5	622.4
60°	597.1	597.1	597.1	593.6	586.4	590.0	582.8	579.1	568.4	557.6	550.4
62.5°	528.9	532.4	532.4	528.9	521.6	521.6	518.0	514.4	503.6	492.9	482.0
65°	471.2	471.2	471.2	467.6	464.1	464.1	460.5	456.9	446.1	431.8	420.9
67.5°	417.2	413.8	413.8	413.8	410.1	406.5	402.9	399.4	388.5	377.8	363.4
70°	363.4	363.4	363.4	359.8	352.5	356.1	352.5	349.0	338.1	327.4	316.6
72.5°	313.0	313.0	309.4	305.8	305.8	302.1	302.1	298.6	287.8	273.4	262.6
75°	259.0	259.0	259.0	259.0	251.9	255.4	248.2	244.6	237.4	226.6	215.9
77.5°	212.2	212.2	212.2	208.6	205.0	205.0	201.5	197.9	187.1	179.9	165.5
80°	165.5	165.5	165.5	165.5	161.9	158.2	154.8	151.1	143.9	133.1	122.2
82.5°	122.2	122.2	118.8	118.8	118.8	115.1	111.5	107.9	100.8	93.5	86.4
85°	68.4	72.0	72.0	64.8	68.4	64.8	64.8	57.5	57.5	50.4	46.8
87.5°	25.1	21.6	21.6	21.6	21.6	21.6	21.6	18.0	18.0	18.0	14.4
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°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2770.0	2766.4	2780.8	2780.8	2759.2	2770.0	2773.6	2766.4	2766.4	2770.0	2759.2
5°	2762.8	2755.6	2770.0	2773.6	2752.0	2762.8	2766.4	2759.2	2762.8	2766.4	2752.0
7.5°	2737.6	2737.6	2748.4	2752.0	2730.4	2741.2	2741.2	2734.0	2737.6	2737.6	2726.9
10°	2712.5	2701.6	2712.5	2712.5	2694.5	2698.0	2705.2	2701.6	2716.0	2734.0	2734.0
12.5°	2665.6	2654.9	2672.9	2672.9	2662.1	2676.5	2694.5	2705.2	2719.6	2726.9	2705.2
15°	2608.1	2611.8	2644.1	2669.2	2658.5	2680.1	2698.0	2690.9	2672.9	2651.2	2618.9
17.5°	2532.6	2521.8	2550.6	2565.0	2550.6	2557.8	2572.1	2557.8	2529.0	2511.0	2467.9
20°	2446.2	2417.5	2417.5	2410.2	2385.1	2385.1	2381.5	2356.2	2345.5	2334.8	2316.8
22.5°	2349.1	2316.8	2306.0	2284.4	2262.8	2259.1	2248.4	2223.2	2208.8	2201.6	2180.0
25°	2237.6	2208.8	2190.9	2169.2	2136.9	2129.6	2118.9	2093.8	2086.5	2075.8	2057.8
27.5°	2122.5	2086.5	2061.4	2039.8	2011.0	2007.4	1985.8	1967.8	1953.4	1946.2	1931.8
30°	1989.4	1949.8	1931.8	1903.0	1881.5	1874.2	1856.2	1831.1	1820.2	1813.1	1802.2
32.5°	1841.9	1809.5	1791.5	1766.4	1737.5	1741.1	1719.6	1698.0	1690.8	1683.6	1672.8
35°	1698.0	1665.6	1644.0	1622.4	1604.5	1597.2	1582.9	1564.9	1554.1	1550.5	1543.2
37.5°	1539.8	1514.5	1496.5	1475.0	1460.5	1453.4	1446.1	1428.1	1421.0	1421.0	1406.6
40°	1385.0	1363.4	1349.0	1338.2	1320.2	1316.6	1309.5	1298.6	1295.1	1291.5	1280.6
42.5°	1244.8	1215.9	1205.1	1198.0	1187.1	1180.0	1176.4	1169.1	1165.5	1162.0	1151.1
45°	1111.6	1086.4	1075.6	1068.4	1057.6	1054.0	1050.5	1039.6	1032.5	1025.2	1021.6
47.5°	982.1	964.1	960.5	942.5	935.4	928.1	920.9	913.8	910.1	906.5	892.1
50°	870.6	859.8	841.8	831.0	823.8	820.2	805.9	795.0	791.4	787.9	777.0
52.5°	769.9	755.5	744.6	726.6	723.1	715.9	708.8	694.2	687.1	683.5	672.8
55°	679.9	669.1	654.8	640.4	629.5	626.0	615.1	600.8	593.6	586.4	579.1
57.5°	604.4	586.4	572.0	557.6	550.4	539.6	528.9	521.6	510.9	500.0	489.2
60°	532.4	518.0	500.0	485.6	478.5	471.2	456.9	446.1	435.2	424.5	413.8
62.5°	464.1	449.6	431.8	417.2	410.1	402.9	388.5	377.8	366.9	356.1	341.8
65°	402.9	388.5	374.1	359.8	352.5	345.4	331.0	316.6	305.8	295.0	280.6
67.5°	352.5	334.5	320.1	305.8	298.6	291.4	277.0	266.2	251.9	241.0	226.6
70°	298.6	284.2	273.4	259.0	251.9	244.6	230.2	215.9	205.0	194.2	179.9
72.5°	251.9	233.9	223.0	208.6	201.5	197.9	183.5	172.6	161.9	147.5	136.8
75°	201.5	187.1	172.6	161.9	154.8	151.1	136.8	125.9	115.1	104.4	93.5
77.5°	154.8	143.9	129.5	118.8	111.5	107.9	93.5	82.8	72.0	64.8	54.0
80°	115.1	100.8	93.5	82.8	79.1	72.0	64.8	54.0	46.8	36.0	28.8
82.5°	79.1	68.4	61.1	54.0	50.4	46.8	39.6	32.4	25.1	21.6	18.0
85°	43.1	36.0	32.4	28.8	25.1	25.1	21.6	18.0	14.4	10.8	7.2
87.5°	14.4	10.8	10.8	10.8	10.8	7.2	7.2	7.2	3.6	3.6	3.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2766.4	2766.4	2766.4	2762.8	2762.8	2762.8	2759.2	2773.6	2759.2	2755.6	2766.4
5°	2762.8	2755.6	2755.6	2755.6	2755.6	2752.0	2748.4	2755.6	2744.9	2741.2	2741.2
7.5°	2741.2	2737.6	2737.6	2734.0	2730.4	2726.9	2723.2	2726.9	2716.0	2712.5	2712.5
10°	2744.9	2737.6	2737.6	2726.9	2719.6	2708.9	2698.0	2701.6	2687.2	2676.5	2676.5
12.5°	2701.6	2683.6	2672.9	2662.1	2654.9	2651.2	2636.9	2644.1	2629.8	2626.1	2626.1
15°	2604.5	2583.0	2565.0	2557.8	2557.8	2550.6	2539.8	2554.1	2547.0	2550.6	2568.5
17.5°	2453.4	2442.6	2431.9	2428.2	2431.9	2439.0	2446.2	2467.9	2467.9	2478.6	2496.6
20°	2320.4	2313.1	2320.4	2320.4	2323.9	2338.4	2352.8	2370.8	2377.9	2388.6	2413.9
22.5°	2190.9	2190.9	2198.0	2208.8	2205.2	2230.4	2234.0	2266.4	2266.4	2288.0	2309.5
25°	2064.9	2064.9	2072.1	2075.8	2082.9	2097.2	2111.6	2136.9	2144.0	2165.6	2183.6
27.5°	1942.6	1939.0	1939.0	1942.6	1949.8	1967.8	1975.0	2003.8	2014.5	2029.0	2046.9
30°	1805.9	1802.2	1809.5	1816.8	1813.1	1831.1	1841.9	1863.5	1870.6	1885.0	1899.4
32.5°	1676.4	1676.4	1676.4	1683.6	1683.6	1698.0	1698.0	1723.1	1723.1	1734.0	1748.4
35°	1543.2	1543.2	1546.9	1550.5	1554.1	1557.6	1561.2	1575.6	1579.2	1582.9	1590.0
37.5°	1417.4	1413.8	1417.4	1417.4	1410.1	1424.6	1424.6	1439.0	1428.1	1439.0	1442.5
40°	1287.9	1287.9	1284.2	1284.2	1284.2	1291.5	1284.2	1295.1	1287.9	1295.1	1291.5
42.5°	1154.8	1154.8	1147.6	1154.8	1151.1	1151.1	1151.1	1158.4	1147.6	1154.8	1158.4
45°	1021.6	1018.1	1018.1	1014.5	1014.5	1014.5	1018.1	1018.1	1014.5	1021.6	1021.6
47.5°	892.1	888.5	888.5	888.5	888.5	892.1	881.4	888.5	881.4	881.4	881.4
50°	780.6	777.0	773.5	769.9	766.2	766.2	762.6	762.6	755.5	751.9	748.2
52.5°	672.8	669.1	661.9	661.9	658.4	654.8	643.9	643.9	633.1	629.5	629.5
55°	575.6	564.8	561.2	554.0	554.0	546.8	539.6	532.4	521.6	514.4	514.4
57.5°	485.6	474.9	467.6	464.1	460.5	453.2	438.9	435.2	420.9	417.2	413.8
60°	406.5	395.8	384.9	377.8	374.1	363.4	349.0	341.8	334.5	323.8	313.0
62.5°	331.0	320.1	305.8	302.1	295.0	284.2	273.4	262.6	255.4	244.6	237.4
65°	266.2	255.4	244.6	237.4	230.2	219.5	208.6	197.9	190.6	187.1	183.5
67.5°	215.9	201.5	190.6	187.1	179.9	172.6	161.9	158.2	151.1	151.1	151.1
70°	169.1	158.2	147.5	143.9	140.2	133.1	125.9	125.9	125.9	125.9	125.9
72.5°	125.9	118.8	107.9	104.4	100.8	97.1	89.9	93.5	89.9	89.9	89.9
75°	79.1	72.0	64.8	61.1	57.5	54.0	50.4	46.8	43.1	39.6	39.6
77.5°	43.1	36.0	32.4	28.8	28.8	25.1	21.6	21.6	18.0	18.0	18.0
80°	25.1	21.6	18.0	14.4	14.4	10.8	10.8	10.8	10.8	7.2	7.2
82.5°	14.4	10.8	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	3.6
85°	7.2	7.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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: P252392

CATALOG NUMBER: LE_6B40D010 EC6B30508050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0	2770.0
2.5°	2748.4	2759.2	2748.4	2759.2	2759.2	2759.2	2759.2	2748.4
5°	2730.4	2737.6	2726.9	2734.0	2737.6	2734.0	2734.0	2723.2
7.5°	2698.0	2705.2	2694.5	2705.2	2708.9	2705.2	2701.6	2694.5
10°	2665.6	2669.2	2658.5	2665.6	2672.9	2672.9	2669.2	2658.5
12.5°	2615.4	2626.1	2615.4	2622.5	2629.8	2633.2	2633.2	2622.5
15°	2557.8	2575.8	2568.5	2579.4	2590.1	2593.8	2593.8	2590.1
17.5°	2500.2	2518.2	2507.4	2525.4	2536.1	2543.4	2547.0	2539.8
20°	2417.5	2439.0	2431.9	2446.2	2460.6	2471.4	2471.4	2460.6
22.5°	2309.5	2338.4	2334.8	2345.5	2363.5	2367.1	2374.2	2367.1
25°	2190.9	2212.4	2208.8	2219.6	2241.1	2241.1	2244.8	2244.8
27.5°	2054.1	2075.8	2072.1	2079.2	2093.8	2097.2	2100.9	2093.8
30°	1906.6	1917.4	1917.4	1928.2	1939.0	1942.6	1942.6	1931.8
32.5°	1744.8	1759.1	1766.4	1762.8	1773.5	1780.8	1777.1	1777.1
35°	1597.2	1600.9	1604.5	1608.0	1611.6	1618.9	1611.6	1608.0
37.5°	1439.0	1449.8	1442.5	1449.8	1457.0	1453.4	1449.8	1449.8
40°	1295.1	1298.6	1291.5	1298.6	1302.2	1302.2	1302.2	1295.1
42.5°	1151.1	1158.4	1151.1	1158.4	1158.4	1158.4	1158.4	1154.8
45°	1007.2	1014.5	1014.5	1018.1	1018.1	1014.5	1014.5	1014.5
47.5°	874.1	881.4	874.1	881.4	885.0	877.8	877.8	877.8
50°	748.2	744.6	744.6	748.2	748.2	748.2	748.2	744.6
52.5°	618.8	622.4	622.4	622.4	626.0	622.4	626.0	626.0
55°	507.2	507.2	507.2	510.9	507.2	507.2	510.9	514.4
57.5°	406.5	402.9	399.4	399.4	402.9	399.4	399.4	399.4
60°	313.0	309.4	305.8	305.8	305.8	305.8	305.8	302.1
62.5°	233.9	233.9	233.9	237.4	237.4	237.4	237.4	241.0
65°	187.1	187.1	187.1	187.1	187.1	187.1	187.1	190.6
67.5°	151.1	151.1	151.1	154.8	154.8	154.8	154.8	154.8
70°	125.9	125.9	129.5	125.9	129.5	129.5	129.5	129.5
72.5°	86.4	86.4	86.4	86.4	86.4	82.8	86.4	82.8
75°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	32.4
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	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)