

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: P252600

Luminaire Tested: **LE_6B40D010 EC6B30508050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE 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: 5388.8 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

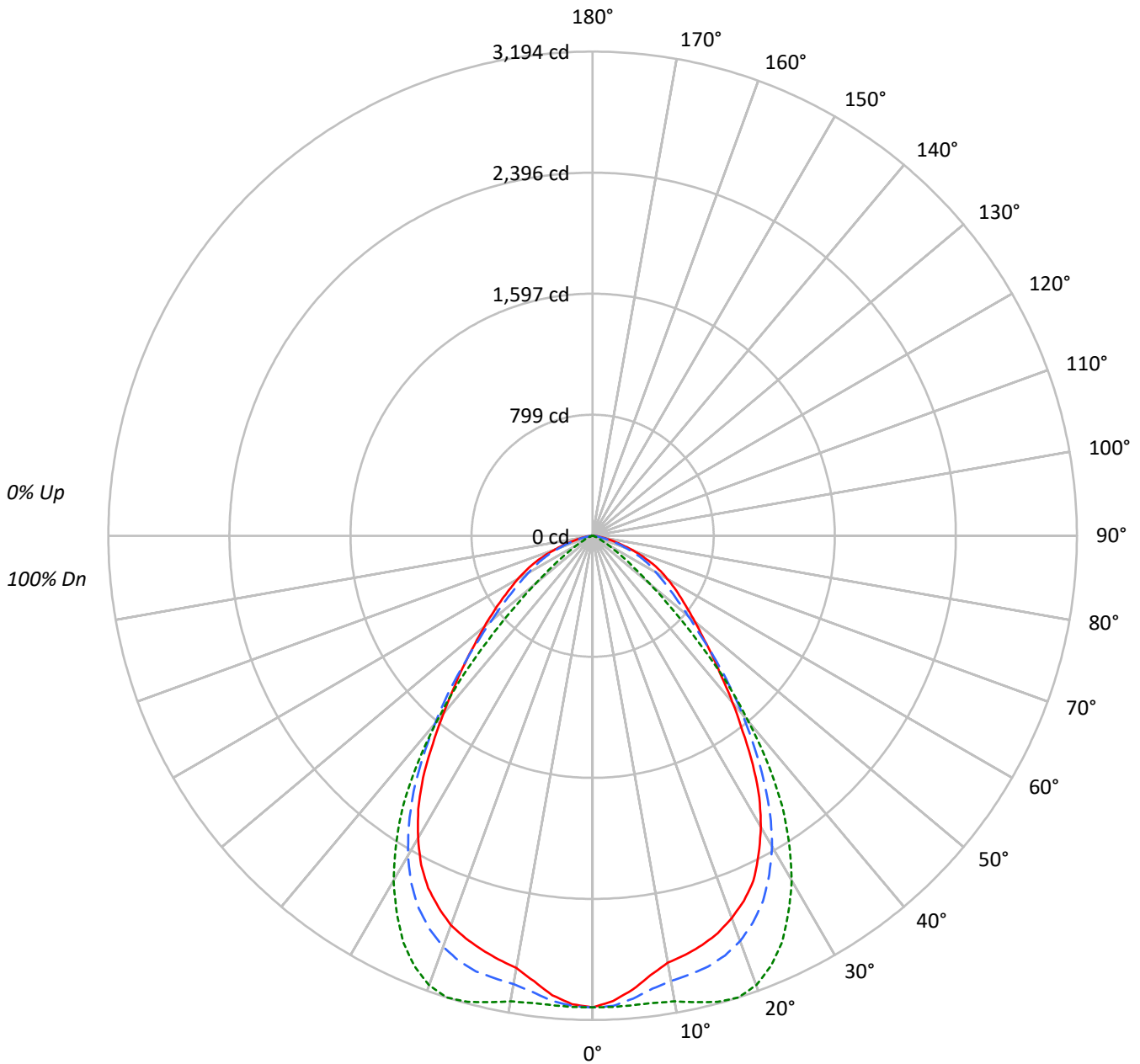
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	202977	202977	202977
5°	196921	203516	199279
10°	189427	206585	191812
15°	188753	214993	190941
20°	186281	219003	189780
25°	180719	212824	184606
30°	167180	197795	173410
35°	146665	173879	155266
40°	122221	136308	130184
45°	102875	89939	109841
50°	89073	49277	94544
55°	80587	26184	82635
60°	74139	13596	74139
65°	67183	7225	65516
70°	54192	4120	50091
75°	37180	2722	34433
80°	24346	1353	21603
85°	16169	2695	13474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	5.4
10°-20°	838.9	15.6
20°-30°	1239.5	23.0
30°-40°	1252.0	23.2
40°-50°	862.9	16.0
50°-60°	495.6	9.2
60°-70°	288.5	5.4
70°-80°	105.2	2.0
80°-90°	16.1	0.3
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°	2368.5	44.0
0°-40°	3620.4	67.2
0°-60°	4979.0	92.4
0°-90°	5388.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5388.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3111	3111	3111	3111	3111	
5°	3007	3064	3108	3079	3043	282
15°	2795	2942	3183	2974	2827	787
25°	2510	2658	2956	2712	2564	1144
35°	1842	1967	2183	2057	1950	1143
45°	1115	1129	975	1201	1190	867
55°	708	622	230	647	726	638
65°	435	367	47	363	424	426
75°	148	119	11	115	137	166
85°	22	11	4	14	18	27
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°	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2
2.5°	3071.6	3075.2	3078.9	3075.2	3078.9	3093.2	3082.4	3089.6	3089.6	3093.2	3104.0
5°	3006.9	3006.9	3014.1	3010.5	3021.2	3035.6	3024.9	3035.6	3039.2	3046.5	3064.4
7.5°	2924.1	2924.1	2927.8	2927.8	2942.1	2956.5	2949.4	2963.8	2978.1	2992.5	3014.1
10°	2859.4	2866.6	2866.6	2870.2	2884.6	2902.6	2899.0	2917.0	2931.4	2952.9	2981.8
12.5°	2830.6	2834.2	2834.2	2841.4	2855.9	2873.8	2870.2	2888.2	2909.8	2935.0	2963.8
15°	2794.6	2801.9	2798.2	2805.5	2819.9	2837.9	2834.2	2852.2	2877.4	2902.6	2942.1
17.5°	2747.9	2751.5	2755.1	2755.1	2769.5	2783.9	2783.9	2801.9	2830.6	2859.4	2902.6
20°	2683.1	2690.4	2690.4	2694.0	2704.8	2726.4	2722.8	2740.8	2769.5	2798.2	2845.0
22.5°	2607.6	2611.2	2611.2	2614.9	2632.9	2643.6	2647.2	2661.6	2686.8	2719.1	2762.2
25°	2510.5	2514.1	2510.5	2521.4	2528.5	2550.1	2542.9	2560.9	2589.6	2614.9	2658.0
27.5°	2370.2	2377.5	2377.5	2381.0	2399.0	2417.0	2417.0	2435.0	2460.1	2478.1	2521.4
30°	2219.2	2230.0	2219.2	2237.1	2244.4	2258.8	2269.5	2280.4	2301.9	2327.1	2366.6
32.5°	2046.5	2043.0	2046.5	2053.8	2075.4	2086.1	2093.2	2104.1	2125.6	2147.2	2179.6
35°	1841.5	1848.8	1852.4	1866.8	1866.8	1884.8	1888.2	1895.5	1927.9	1942.2	1967.4
37.5°	1625.8	1632.9	1636.5	1643.8	1658.1	1665.2	1676.1	1686.9	1708.5	1733.6	1748.0
40°	1435.1	1435.1	1438.8	1445.9	1456.6	1460.2	1471.1	1485.5	1499.9	1521.4	1535.9
42.5°	1255.2	1258.9	1255.2	1262.5	1273.2	1287.6	1284.0	1302.0	1305.6	1320.0	1330.8
45°	1115.0	1115.0	1107.8	1115.0	1115.0	1129.4	1125.8	1133.0	1129.4	1136.6	1129.4
47.5°	981.9	985.5	981.9	985.5	985.5	985.5	989.1	981.9	985.5	974.8	953.1
50°	877.6	881.2	874.0	877.6	874.0	870.4	874.0	863.2	859.6	845.2	823.6
52.5°	787.8	784.1	780.5	780.5	780.5	776.9	773.2	762.5	751.8	737.4	712.1
55°	708.5	705.0	701.4	701.4	694.1	690.6	690.6	679.8	669.0	651.0	622.2
57.5°	636.6	633.0	629.4	629.4	625.9	618.6	618.6	607.9	593.5	571.9	546.8
60°	568.2	568.2	568.2	564.8	564.8	557.5	557.5	546.8	532.4	510.8	482.0
62.5°	507.1	503.5	503.5	503.5	503.5	500.0	496.4	489.1	474.8	453.2	428.0
65°	435.2	435.2	435.2	435.2	431.6	431.6	431.6	420.9	413.6	392.0	366.9
67.5°	356.1	356.1	356.1	356.1	352.5	356.1	356.1	348.9	341.8	320.1	298.5
70°	284.1	280.5	277.0	280.5	277.0	277.0	280.5	273.4	269.8	251.8	230.2
72.5°	208.6	212.2	208.6	208.6	208.6	205.0	208.6	205.0	197.9	183.4	169.0
75°	147.5	151.1	151.1	147.5	147.5	147.5	143.9	143.9	136.6	125.9	118.8
77.5°	100.8	100.8	100.8	100.8	97.1	97.1	97.1	93.5	89.9	82.8	75.5
80°	64.8	64.8	64.8	64.8	61.1	61.1	61.1	57.5	57.5	50.4	43.1
82.5°	39.6	39.6	39.6	39.6	39.6	39.6	36.0	36.0	32.4	28.8	25.1
85°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	18.0	18.0	14.4	10.8
87.5°	7.2	7.2	10.8	10.8	10.8	10.8	10.8	10.8	7.2	7.2	7.2
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°	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2
2.5°	3096.8	3100.4	3100.4	3100.4	3111.2	3114.8	3104.0	3093.2	3114.8	3111.2	3118.4
5°	3060.9	3071.6	3078.9	3082.4	3093.2	3100.4	3089.6	3086.0	3104.0	3107.6	3111.2
7.5°	3017.6	3035.6	3053.6	3060.9	3075.2	3082.4	3078.9	3078.9	3100.4	3107.6	3107.6
10°	2988.9	3014.1	3035.6	3053.6	3071.6	3082.4	3082.4	3086.0	3111.2	3118.4	3125.6
12.5°	2981.8	3014.1	3042.9	3068.0	3082.4	3100.4	3104.0	3114.8	3140.0	3150.8	3150.8
15°	2963.8	3006.9	3042.9	3075.2	3096.8	3118.4	3125.6	3147.1	3175.9	3183.1	3190.4
17.5°	2931.4	2974.5	3017.6	3057.2	3086.0	3104.0	3125.6	3147.1	3183.1	3193.9	3197.5
20°	2873.8	2924.1	2967.4	3006.9	3035.6	3060.9	3082.4	3107.6	3140.0	3154.4	3158.0
22.5°	2787.5	2837.9	2881.0	2924.1	2952.9	2974.5	2996.1	3024.9	3057.2	3071.6	3071.6
25°	2683.1	2730.0	2776.8	2809.1	2837.9	2863.0	2873.8	2906.1	2938.5	2956.5	2956.5
27.5°	2550.1	2593.2	2636.4	2672.4	2690.4	2712.0	2730.0	2758.8	2783.9	2798.2	2812.6
30°	2381.0	2424.2	2463.8	2499.8	2521.4	2542.9	2560.9	2582.5	2607.6	2625.6	2629.2
32.5°	2197.6	2233.6	2273.1	2309.1	2330.8	2337.9	2355.9	2377.5	2399.0	2413.4	2417.0
35°	1996.2	2021.4	2046.5	2078.9	2100.5	2100.5	2118.5	2132.9	2150.9	2183.2	2176.0
37.5°	1758.9	1794.8	1812.8	1823.5	1838.0	1852.4	1855.9	1873.9	1895.5	1902.6	1913.5
40°	1535.9	1546.6	1557.4	1557.4	1571.8	1571.8	1571.8	1575.4	1597.0	1600.5	1615.0
42.5°	1312.9	1312.9	1302.0	1291.2	1294.9	1291.2	1273.2	1273.2	1284.0	1298.4	1298.4
45°	1104.2	1079.0	1046.6	1021.5	1003.5	996.2	974.8	974.8	971.1	974.8	989.1
47.5°	928.0	884.8	830.9	780.5	762.5	748.1	715.8	701.4	694.1	697.8	705.0
50°	780.5	733.8	672.6	611.5	579.1	561.1	521.5	496.4	492.8	485.5	500.0
52.5°	672.6	615.0	550.2	478.4	446.0	417.2	374.1	352.5	338.1	338.1	341.8
55°	579.1	517.9	446.0	374.1	341.8	320.1	277.0	248.1	233.8	230.2	241.0
57.5°	500.0	442.4	370.5	298.5	266.1	241.0	197.9	172.6	161.9	154.6	158.2
60°	438.8	381.2	309.4	241.0	212.2	183.4	147.5	118.8	104.2	104.2	107.9
62.5°	381.2	327.2	262.6	197.9	172.6	147.5	107.9	82.8	71.9	68.4	71.9
65°	323.8	273.4	219.4	165.5	140.2	118.8	86.4	64.8	50.4	46.8	50.4
67.5°	262.6	223.0	176.2	133.1	111.5	93.5	64.8	46.8	36.0	32.4	36.0
70°	205.0	169.0	133.1	97.1	82.8	68.4	46.8	36.0	25.1	21.6	25.1
72.5°	147.5	122.2	93.5	68.4	57.5	46.8	32.4	25.1	18.0	14.4	18.0
75°	100.8	82.8	61.1	43.1	36.0	32.4	21.6	14.4	10.8	10.8	10.8
77.5°	64.8	50.4	39.6	28.8	21.6	18.0	10.8	7.2	7.2	7.2	7.2
80°	36.0	28.8	21.6	14.4	10.8	10.8	7.2	7.2	3.6	3.6	3.6
82.5°	21.6	14.4	10.8	7.2	7.2	3.6	3.6	3.6	3.6	3.6	3.6
85°	10.8	7.2	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2
2.5°	3104.0	3107.6	3096.8	3111.2	3100.4	3114.8	3114.8	3100.4	3104.0	3096.8	3111.2
5°	3096.8	3096.8	3089.6	3100.4	3086.0	3100.4	3096.8	3071.6	3078.9	3064.4	3078.9
7.5°	3096.8	3089.6	3078.9	3089.6	3071.6	3082.4	3068.0	3042.9	3035.6	3017.6	3017.6
10°	3107.6	3096.8	3082.4	3086.0	3068.0	3071.6	3050.0	3014.1	3003.2	2981.8	2974.5
12.5°	3132.8	3122.0	3100.4	3107.6	3082.4	3082.4	3053.6	3010.5	2988.9	2960.1	2952.9
15°	3168.8	3150.8	3125.6	3129.1	3104.0	3089.6	3053.6	3003.2	2974.5	2935.0	2924.1
17.5°	3175.9	3158.0	3125.6	3125.6	3093.2	3075.2	3032.1	2974.5	2938.5	2899.0	2877.4
20°	3136.4	3118.4	3082.4	3078.9	3050.0	3024.9	2978.1	2920.6	2884.6	2841.4	2823.5
22.5°	3053.6	3032.1	2999.8	2996.1	2967.4	2952.9	2902.6	2845.0	2809.1	2765.9	2751.5
25°	2931.4	2920.6	2888.2	2884.6	2859.4	2841.4	2798.2	2744.4	2712.0	2668.8	2654.4
27.5°	2787.5	2776.8	2744.4	2744.4	2715.5	2704.8	2665.2	2614.9	2589.6	2550.1	2532.1
30°	2614.9	2600.5	2582.5	2578.9	2553.8	2542.9	2507.0	2460.1	2435.0	2402.6	2395.5
32.5°	2409.9	2399.0	2388.2	2384.6	2359.5	2348.6	2323.5	2276.8	2255.1	2226.4	2215.6
35°	2172.5	2165.2	2154.5	2150.9	2140.1	2129.2	2104.1	2068.1	2057.4	2035.8	2025.0
37.5°	1899.1	1906.2	1899.1	1899.1	1888.2	1891.9	1870.4	1848.8	1838.0	1823.5	1816.4
40°	1604.1	1618.5	1629.4	1629.4	1625.8	1640.1	1636.5	1618.5	1615.0	1607.8	1604.1
42.5°	1305.6	1312.9	1334.4	1348.8	1345.1	1381.1	1384.8	1399.1	1409.9	1402.8	1406.4
45°	992.8	1014.2	1043.0	1057.5	1075.4	1122.2	1147.4	1176.1	1201.4	1215.8	1212.1
47.5°	715.8	740.9	773.2	794.9	827.2	884.8	949.5	985.5	1021.5	1039.5	1057.5
50°	517.9	543.1	582.6	615.0	636.6	715.8	784.1	830.9	870.4	895.6	913.6
52.5°	363.2	392.0	435.2	464.0	496.4	571.9	651.0	705.0	748.1	780.5	798.5
55°	251.8	284.1	323.8	352.5	388.5	467.6	543.1	600.6	647.4	676.2	697.8
57.5°	176.2	205.0	244.6	269.8	305.8	381.2	456.8	514.4	561.1	589.9	615.0
60°	118.8	147.5	187.0	212.2	241.0	316.5	384.9	446.0	489.1	517.9	543.1
62.5°	82.8	107.9	147.5	172.6	197.9	262.6	327.2	381.2	424.4	456.8	478.4
65°	64.8	86.4	118.8	140.2	165.5	219.4	273.4	320.1	363.2	395.6	410.0
67.5°	46.8	68.4	93.5	111.5	129.5	176.2	223.0	259.0	298.5	323.8	341.8
70°	32.4	46.8	68.4	82.8	97.1	133.1	169.0	201.4	230.2	248.1	262.6
72.5°	25.1	32.4	46.8	57.5	68.4	93.5	122.2	147.5	169.0	183.4	197.9
75°	14.4	21.6	32.4	39.6	46.8	64.8	82.8	100.8	115.1	125.9	133.1
77.5°	7.2	10.8	18.0	21.6	28.8	39.6	54.0	64.8	75.5	82.8	89.9
80°	7.2	7.2	10.8	10.8	14.4	21.6	28.8	36.0	43.1	50.4	54.0
82.5°	3.6	3.6	7.2	7.2	7.2	10.8	14.4	21.6	25.1	28.8	32.4
85°	3.6	3.6	3.6	3.6	3.6	7.2	7.2	10.8	14.4	18.0	18.0
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	7.2	7.2	7.2	10.8
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: P252600

CATALOG NUMBER: LE_6B40D010 EC6B30508050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2	3111.2
2.5°	3100.4	3107.6	3104.0	3111.2	3100.4	3096.8	3104.0	3093.2
5°	3060.9	3064.4	3060.9	3060.9	3053.6	3046.5	3053.6	3042.9
7.5°	2999.8	2999.8	2988.9	2988.9	2974.5	2967.4	2967.4	2963.8
10°	2949.4	2938.5	2927.8	2931.4	2909.8	2902.6	2899.0	2895.4
12.5°	2924.1	2917.0	2899.0	2899.0	2877.4	2870.2	2866.6	2863.0
15°	2895.4	2881.0	2866.6	2863.0	2845.0	2837.9	2834.2	2827.0
17.5°	2845.0	2834.2	2816.2	2816.2	2798.2	2794.6	2787.5	2783.9
20°	2791.1	2776.8	2762.2	2762.2	2740.8	2740.8	2730.0	2733.5
22.5°	2715.5	2704.8	2690.4	2690.4	2672.4	2668.8	2658.0	2654.4
25°	2625.6	2611.2	2600.5	2596.9	2582.5	2575.2	2571.6	2564.5
27.5°	2507.0	2496.1	2485.4	2478.1	2460.1	2456.6	2445.8	2449.4
30°	2359.5	2352.2	2348.6	2341.5	2319.9	2312.8	2312.8	2301.9
32.5°	2197.6	2186.9	2179.6	2168.9	2150.9	2147.2	2136.5	2140.1
35°	1999.8	1985.4	1974.6	1978.2	1956.6	1953.0	1945.9	1949.5
37.5°	1794.8	1780.4	1766.0	1762.4	1744.4	1744.4	1733.6	1733.6
40°	1582.6	1568.1	1561.0	1561.0	1539.4	1543.0	1532.2	1528.6
42.5°	1392.0	1377.5	1374.0	1370.4	1359.6	1356.0	1345.1	1348.8
45°	1212.1	1208.5	1208.5	1201.4	1190.5	1186.9	1190.5	1190.5
47.5°	1053.9	1057.5	1053.9	1053.9	1046.6	1053.9	1046.6	1050.2
50°	920.8	928.0	928.0	928.0	924.4	928.0	928.0	931.5
52.5°	809.2	820.0	816.5	820.0	816.5	823.6	820.0	823.6
55°	712.1	719.4	723.0	726.5	726.5	726.5	726.5	726.5
57.5°	622.2	633.0	636.6	640.2	640.2	647.4	640.2	640.2
60°	550.2	561.1	564.8	568.2	568.2	571.9	564.8	568.2
62.5°	485.5	496.4	496.4	500.0	500.0	500.0	492.8	496.4
65°	420.9	424.4	428.0	428.0	424.4	424.4	420.9	424.4
67.5°	348.9	352.5	348.9	348.9	345.2	345.2	338.1	341.8
70°	269.8	269.8	273.4	269.8	266.1	269.8	266.1	262.6
72.5°	201.4	201.4	201.4	197.9	197.9	194.2	197.9	197.9
75°	136.6	136.6	140.2	140.2	140.2	140.2	136.6	136.6
77.5°	89.9	89.9	89.9	89.9	93.5	89.9	89.9	89.9
80°	57.5	57.5	61.1	61.1	57.5	57.5	57.5	57.5
82.5°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
85°	21.6	21.6	21.6	21.6	18.0	18.0	18.0	18.0
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	7.2	7.2
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)