

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: P252599

Luminaire Tested: **LE_6B40D010 EC6B30508040 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252599
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 EC6B30508040 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5391.3 lumens
Efficiency: N/A
Efficacy: 125.4 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

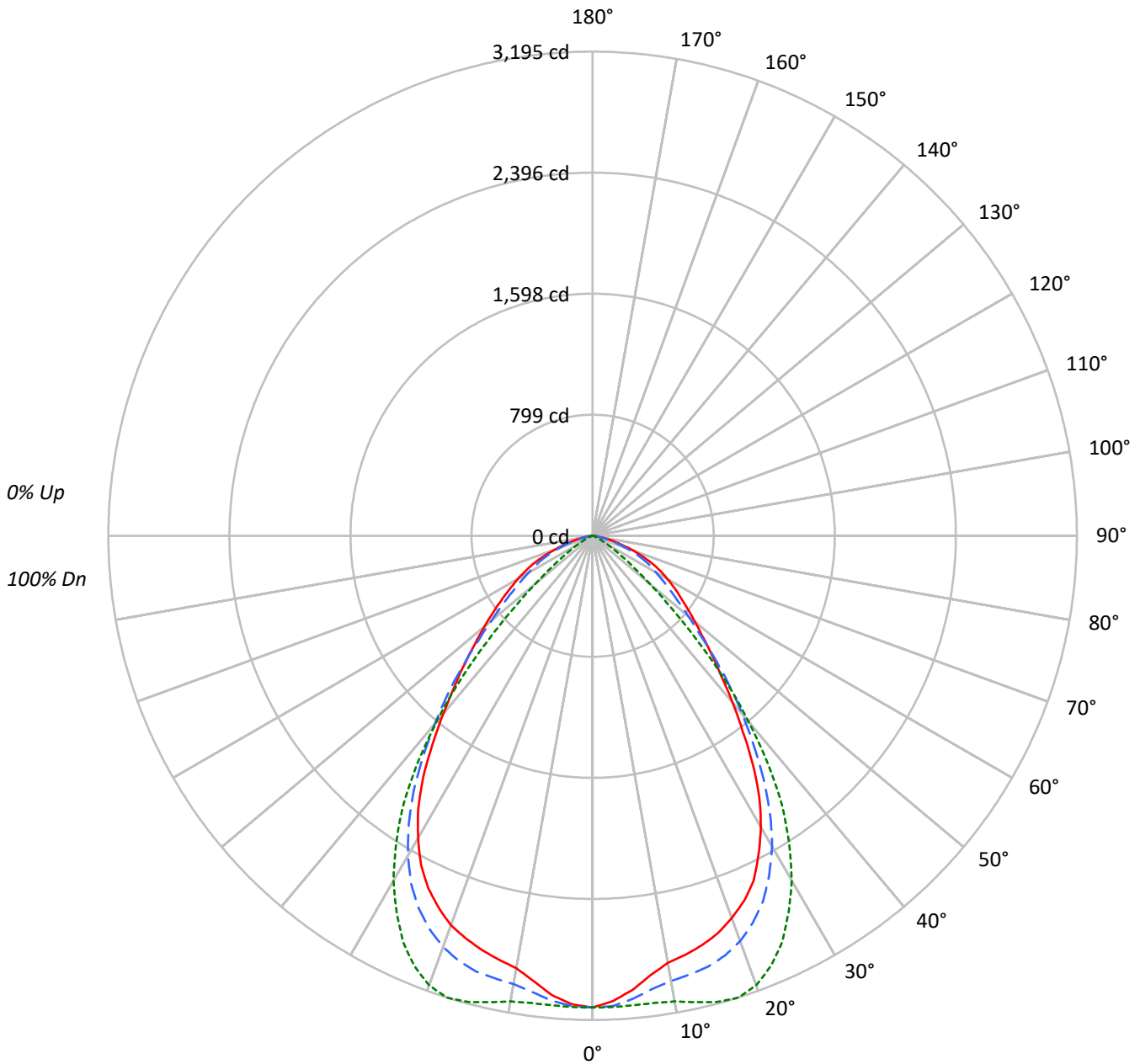
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	203068	203068	203068
5°	197007	203608	199364
10°	189520	206684	191905
15°	188848	215094	191036
20°	186372	219107	189871
25°	180812	212925	184685
30°	167255	197893	173493
35°	146736	173959	155338
40°	122281	136367	130252
45°	102921	89967	109896
50°	89114	49307	94595
55°	80633	26184	82680
60°	74179	13622	74179
65°	67214	7225	65547
70°	54211	4120	50091
75°	37180	2722	34483
80°	24346	1353	21641
85°	16169	2695	13474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	5.4
10°-20°	839.3	15.6
20°-30°	1240.0	23.0
30°-40°	1252.5	23.2
40°-50°	863.3	16.0
50°-60°	495.8	9.2
60°-70°	288.6	5.4
70°-80°	105.3	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°	2369.6	44.0
0°-40°	3622.1	67.2
0°-60°	4981.3	92.4
0°-90°	5391.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5391.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3113	3113	3113	3113	3113	
5°	3008	3066	3109	3080	3044	282
15°	2796	2944	3185	2976	2828	788
25°	2512	2659	2958	2713	2566	1144
35°	1842	1968	2184	2058	1950	1144
45°	1116	1130	975	1202	1191	867
55°	709	622	230	648	727	638
65°	435	367	47	364	425	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°	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6
2.5°	3073.0	3076.6	3080.2	3076.6	3080.2	3094.6	3083.9	3091.0	3091.0	3094.6	3105.5
5°	3008.2	3008.2	3015.5	3011.9	3022.6	3037.1	3026.2	3037.1	3040.6	3047.9	3065.9
7.5°	2925.5	2925.5	2929.1	2929.1	2943.5	2957.9	2950.8	2965.1	2979.5	2993.9	3015.5
10°	2860.8	2868.0	2868.0	2871.5	2885.9	2903.9	2900.4	2918.4	2932.8	2954.2	2983.1
12.5°	2832.0	2835.5	2835.5	2842.8	2857.1	2875.1	2871.5	2889.5	2911.1	2936.4	2965.1
15°	2796.0	2803.1	2799.6	2806.8	2821.1	2839.1	2835.5	2853.5	2878.8	2903.9	2943.5
17.5°	2749.2	2752.8	2756.4	2756.4	2770.8	2785.1	2785.1	2803.1	2832.0	2860.8	2903.9
20°	2684.4	2691.6	2691.6	2695.2	2706.0	2727.6	2724.0	2742.0	2770.8	2799.6	2846.4
22.5°	2608.9	2612.5	2612.5	2616.0	2634.0	2644.9	2648.5	2662.9	2688.0	2720.4	2763.6
25°	2511.8	2515.2	2511.8	2522.5	2529.8	2551.2	2544.1	2562.1	2590.9	2616.0	2659.2
27.5°	2371.4	2378.5	2378.5	2382.1	2400.1	2418.1	2418.1	2436.1	2461.4	2479.4	2522.5
30°	2220.2	2231.0	2220.2	2238.2	2245.4	2259.8	2270.6	2281.4	2303.0	2328.1	2367.8
32.5°	2047.5	2043.9	2047.5	2054.8	2076.2	2087.1	2094.2	2105.1	2126.6	2148.2	2180.6
35°	1842.4	1849.6	1853.2	1867.6	1867.6	1885.6	1889.1	1896.4	1928.8	1943.1	1968.4
37.5°	1626.5	1633.6	1637.2	1644.5	1658.9	1666.1	1676.9	1687.6	1709.2	1734.5	1748.9
40°	1435.8	1435.8	1439.4	1446.6	1457.4	1461.0	1471.8	1486.1	1500.5	1522.1	1536.5
42.5°	1255.9	1259.5	1255.9	1263.0	1273.9	1288.2	1284.6	1302.6	1306.2	1320.6	1331.4
45°	1115.5	1115.5	1108.4	1115.5	1115.5	1129.9	1126.2	1133.5	1129.9	1137.1	1129.9
47.5°	982.4	986.0	982.4	986.0	986.0	986.0	989.6	982.4	986.0	975.1	953.6
50°	878.0	881.6	874.4	878.0	874.4	870.9	874.4	863.6	860.0	845.6	824.0
52.5°	788.0	784.5	780.9	780.9	780.9	777.2	773.6	762.9	752.1	737.6	712.5
55°	708.9	705.2	701.8	701.8	694.5	690.9	690.9	680.1	669.2	651.4	622.5
57.5°	636.9	633.4	629.8	629.8	626.1	618.9	618.9	608.1	593.8	572.1	547.0
60°	568.5	568.5	568.5	565.0	565.0	557.8	557.8	547.0	532.6	511.0	482.2
62.5°	507.4	503.8	503.8	503.8	503.8	500.1	496.6	489.4	475.0	453.4	428.2
65°	435.4	435.4	435.4	435.4	431.8	431.8	431.8	421.0	413.9	392.2	367.0
67.5°	356.2	356.2	356.2	356.2	352.6	356.2	356.2	349.0	341.9	320.2	298.6
70°	284.2	280.6	277.1	280.6	277.1	277.1	280.6	273.5	269.9	251.9	230.2
72.5°	208.8	212.2	208.8	208.8	208.8	205.1	208.8	205.1	197.9	183.5	169.1
75°	147.5	151.1	151.1	147.5	147.5	147.5	143.9	143.9	136.8	126.0	118.8
77.5°	100.8	100.8	100.8	100.8	97.1	97.1	97.1	93.5	90.0	82.8	75.6
80°	64.8	64.8	64.8	64.8	61.1	61.1	61.1	57.6	57.6	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	25.2
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°	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6
2.5°	3098.2	3101.9	3101.9	3101.9	3112.6	3116.2	3105.5	3094.6	3116.2	3112.6	3119.9
5°	3062.2	3073.0	3080.2	3083.9	3094.6	3101.9	3091.0	3087.5	3105.5	3109.0	3112.6
7.5°	3019.1	3037.1	3055.0	3062.2	3076.6	3083.9	3080.2	3080.2	3101.9	3109.0	3109.0
10°	2990.2	3015.5	3037.1	3055.0	3073.0	3083.9	3083.9	3087.5	3112.6	3119.9	3127.0
12.5°	2983.1	3015.5	3044.2	3069.5	3083.9	3101.9	3105.5	3116.2	3141.4	3152.2	3152.2
15°	2965.1	3008.2	3044.2	3076.6	3098.2	3119.9	3127.0	3148.6	3177.4	3184.6	3191.8
17.5°	2932.8	2975.9	3019.1	3058.6	3087.5	3105.5	3127.0	3148.6	3184.6	3195.4	3199.0
20°	2875.1	2925.5	2968.8	3008.2	3037.1	3062.2	3083.9	3109.0	3141.4	3155.9	3159.4
22.5°	2788.8	2839.1	2882.4	2925.5	2954.2	2975.9	2997.5	3026.2	3058.6	3073.0	3073.0
25°	2684.4	2731.2	2778.0	2810.4	2839.1	2864.4	2875.1	2907.5	2939.9	2957.9	2957.9
27.5°	2551.2	2594.5	2637.6	2673.6	2691.6	2713.2	2731.2	2760.0	2785.1	2799.6	2814.0
30°	2382.1	2425.4	2464.9	2500.9	2522.5	2544.1	2562.1	2583.6	2608.9	2626.9	2630.5
32.5°	2198.6	2234.6	2274.2	2310.2	2331.8	2339.0	2357.0	2378.5	2400.1	2414.5	2418.1
35°	1997.1	2022.4	2047.5	2079.9	2101.5	2101.5	2119.5	2133.9	2151.9	2184.2	2177.0
37.5°	1759.6	1795.6	1813.6	1824.4	1838.8	1853.2	1856.8	1874.8	1896.4	1903.6	1914.4
40°	1536.5	1547.4	1558.1	1558.1	1572.5	1572.5	1572.5	1576.1	1597.8	1601.2	1615.8
42.5°	1313.4	1313.4	1302.6	1291.9	1295.4	1291.9	1273.9	1273.9	1284.6	1299.0	1299.0
45°	1104.8	1079.5	1047.1	1022.0	1004.0	996.8	975.1	975.1	971.6	975.1	989.6
47.5°	928.4	885.2	831.2	780.9	762.9	748.5	716.1	701.8	694.5	698.1	705.2
50°	780.9	734.1	672.9	611.8	579.4	561.4	521.8	496.6	493.0	485.8	500.1
52.5°	672.9	615.4	550.5	478.6	446.2	417.4	374.2	352.6	338.2	338.2	341.9
55°	579.4	518.1	446.2	374.2	341.9	320.2	277.1	248.2	233.9	230.2	241.1
57.5°	500.1	442.6	370.6	298.6	266.2	241.1	197.9	172.8	161.9	154.8	158.4
60°	439.0	381.4	309.5	241.1	212.2	183.5	147.5	118.8	104.4	104.4	108.0
62.5°	381.4	327.5	262.6	197.9	172.8	147.5	108.0	82.8	72.0	68.4	72.0
65°	323.9	273.5	219.5	165.5	140.4	118.8	86.4	64.8	50.4	46.8	50.4
67.5°	262.6	223.1	176.4	133.1	111.5	93.5	64.8	46.8	36.0	32.4	36.0
70°	205.1	169.1	133.1	97.1	82.8	68.4	46.8	36.0	25.2	21.6	25.2
72.5°	147.5	122.4	93.5	68.4	57.6	46.8	32.4	25.2	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°	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6
2.5°	3105.5	3109.0	3098.2	3112.6	3101.9	3116.2	3116.2	3101.9	3105.5	3098.2	3112.6
5°	3098.2	3098.2	3091.0	3101.9	3087.5	3101.9	3098.2	3073.0	3080.2	3065.9	3080.2
7.5°	3098.2	3091.0	3080.2	3091.0	3073.0	3083.9	3069.5	3044.2	3037.1	3019.1	3019.1
10°	3109.0	3098.2	3083.9	3087.5	3069.5	3073.0	3051.5	3015.5	3004.6	2983.1	2975.9
12.5°	3134.2	3123.4	3101.9	3109.0	3083.9	3083.9	3055.0	3011.9	2990.2	2961.5	2954.2
15°	3170.2	3152.2	3127.0	3130.6	3105.5	3091.0	3055.0	3004.6	2975.9	2936.4	2925.5
17.5°	3177.4	3159.4	3127.0	3127.0	3094.6	3076.6	3033.5	2975.9	2939.9	2900.4	2878.8
20°	3137.9	3119.9	3083.9	3080.2	3051.5	3026.2	2979.5	2921.9	2885.9	2842.8	2824.8
22.5°	3055.0	3033.5	3001.1	2997.5	2968.8	2954.2	2903.9	2846.4	2810.4	2767.2	2752.8
25°	2932.8	2921.9	2889.5	2885.9	2860.8	2842.8	2799.6	2745.6	2713.2	2670.0	2655.6
27.5°	2788.8	2778.0	2745.6	2745.6	2716.8	2706.0	2666.4	2616.0	2590.9	2551.2	2533.2
30°	2616.0	2601.6	2583.6	2580.1	2554.9	2544.1	2508.1	2461.4	2436.1	2403.8	2396.5
32.5°	2411.0	2400.1	2389.4	2385.8	2360.6	2349.8	2324.6	2277.8	2256.2	2227.4	2216.6
35°	2173.5	2166.2	2155.5	2151.9	2141.1	2130.2	2105.1	2069.1	2058.2	2036.8	2025.9
37.5°	1900.0	1907.1	1900.0	1900.0	1889.1	1892.8	1871.1	1849.6	1838.8	1824.4	1817.2
40°	1604.9	1619.2	1630.1	1630.1	1626.5	1640.9	1637.2	1619.2	1615.8	1608.5	1604.9
42.5°	1306.2	1313.4	1335.0	1349.4	1345.8	1381.8	1385.4	1399.8	1410.6	1403.4	1407.0
45°	993.1	1014.8	1043.5	1057.9	1075.9	1122.8	1147.9	1176.6	1201.9	1216.2	1212.6
47.5°	716.1	741.2	773.6	795.2	827.6	885.2	950.0	986.0	1022.0	1040.0	1057.9
50°	518.1	543.4	583.0	615.4	636.9	716.1	784.5	831.2	870.9	896.0	914.0
52.5°	363.5	392.2	435.4	464.2	496.6	572.1	651.4	705.2	748.5	780.9	798.9
55°	251.9	284.2	323.9	352.6	388.6	467.8	543.4	600.9	647.8	676.5	698.1
57.5°	176.4	205.1	244.8	269.9	305.9	381.4	457.0	514.6	561.4	590.1	615.4
60°	118.8	147.5	187.1	212.2	241.1	316.6	385.0	446.2	489.4	518.1	543.4
62.5°	82.8	108.0	147.5	172.8	197.9	262.6	327.5	381.4	424.6	457.0	478.6
65°	64.8	86.4	118.8	140.4	165.5	219.5	273.5	320.2	363.5	395.9	410.2
67.5°	46.8	68.4	93.5	111.5	129.5	176.4	223.1	259.1	298.6	323.9	341.9
70°	32.4	46.8	68.4	82.8	97.1	133.1	169.1	201.5	230.2	248.2	262.6
72.5°	25.2	32.4	46.8	57.6	68.4	93.5	122.4	147.5	169.1	183.5	197.9
75°	14.4	21.6	32.4	39.6	46.8	64.8	82.8	100.8	115.1	126.0	133.1
77.5°	7.2	10.8	18.0	21.6	28.8	39.6	54.0	64.8	75.6	82.8	90.0
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	25.2	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: P252599

CATALOG NUMBER: LE_6B40D010 EC6B30508040 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6	3112.6
2.5°	3101.9	3109.0	3105.5	3112.6	3101.9	3098.2	3105.5	3094.6
5°	3062.2	3065.9	3062.2	3062.2	3055.0	3047.9	3055.0	3044.2
7.5°	3001.1	3001.1	2990.2	2990.2	2975.9	2968.8	2968.8	2965.1
10°	2950.8	2939.9	2929.1	2932.8	2911.1	2903.9	2900.4	2896.8
12.5°	2925.5	2918.4	2900.4	2900.4	2878.8	2871.5	2868.0	2864.4
15°	2896.8	2882.4	2868.0	2864.4	2846.4	2839.1	2835.5	2828.4
17.5°	2846.4	2835.5	2817.6	2817.6	2799.6	2796.0	2788.8	2785.1
20°	2792.4	2778.0	2763.6	2763.6	2742.0	2742.0	2731.2	2734.8
22.5°	2716.8	2706.0	2691.6	2691.6	2673.6	2670.0	2659.2	2655.6
25°	2626.9	2612.5	2601.6	2598.1	2583.6	2576.5	2572.9	2565.6
27.5°	2508.1	2497.2	2486.5	2479.4	2461.4	2457.8	2446.9	2450.5
30°	2360.6	2353.4	2349.8	2342.6	2321.0	2313.8	2313.8	2303.0
32.5°	2198.6	2187.9	2180.6	2169.9	2151.9	2148.2	2137.5	2141.1
35°	2000.8	1986.4	1975.5	1979.1	1957.5	1954.0	1946.8	1950.4
37.5°	1795.6	1781.2	1766.9	1763.2	1745.2	1745.2	1734.5	1734.5
40°	1583.2	1568.9	1561.8	1561.8	1540.1	1543.8	1532.9	1529.4
42.5°	1392.6	1378.2	1374.6	1371.0	1360.2	1356.6	1345.8	1349.4
45°	1212.6	1209.1	1209.1	1201.9	1191.1	1187.5	1191.1	1191.1
47.5°	1054.4	1057.9	1054.4	1054.4	1047.1	1054.4	1047.1	1050.8
50°	921.2	928.4	928.4	928.4	924.8	928.4	928.4	932.0
52.5°	809.6	820.5	816.9	820.5	816.9	824.0	820.5	824.0
55°	712.5	719.6	723.2	726.9	726.9	726.9	726.9	726.9
57.5°	622.5	633.4	636.9	640.5	640.5	647.8	640.5	640.5
60°	550.5	561.4	565.0	568.5	568.5	572.1	565.0	568.5
62.5°	485.8	496.6	496.6	500.1	500.1	500.1	493.0	496.6
65°	421.0	424.6	428.2	428.2	424.6	424.6	421.0	424.6
67.5°	349.0	352.6	349.0	349.0	345.5	345.5	338.2	341.9
70°	269.9	269.9	273.5	269.9	266.2	269.9	266.2	262.6
72.5°	201.5	201.5	201.5	197.9	197.9	194.4	197.9	197.9
75°	136.8	136.8	140.4	140.4	140.4	140.4	136.8	136.8
77.5°	90.0	90.0	90.0	90.0	93.5	90.0	90.0	90.0
80°	57.6	57.6	61.1	61.1	57.6	57.6	57.6	57.6
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)