

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: P252286

Luminaire Tested: **LE_6B40D010 EC6B30508035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30508035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4946.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

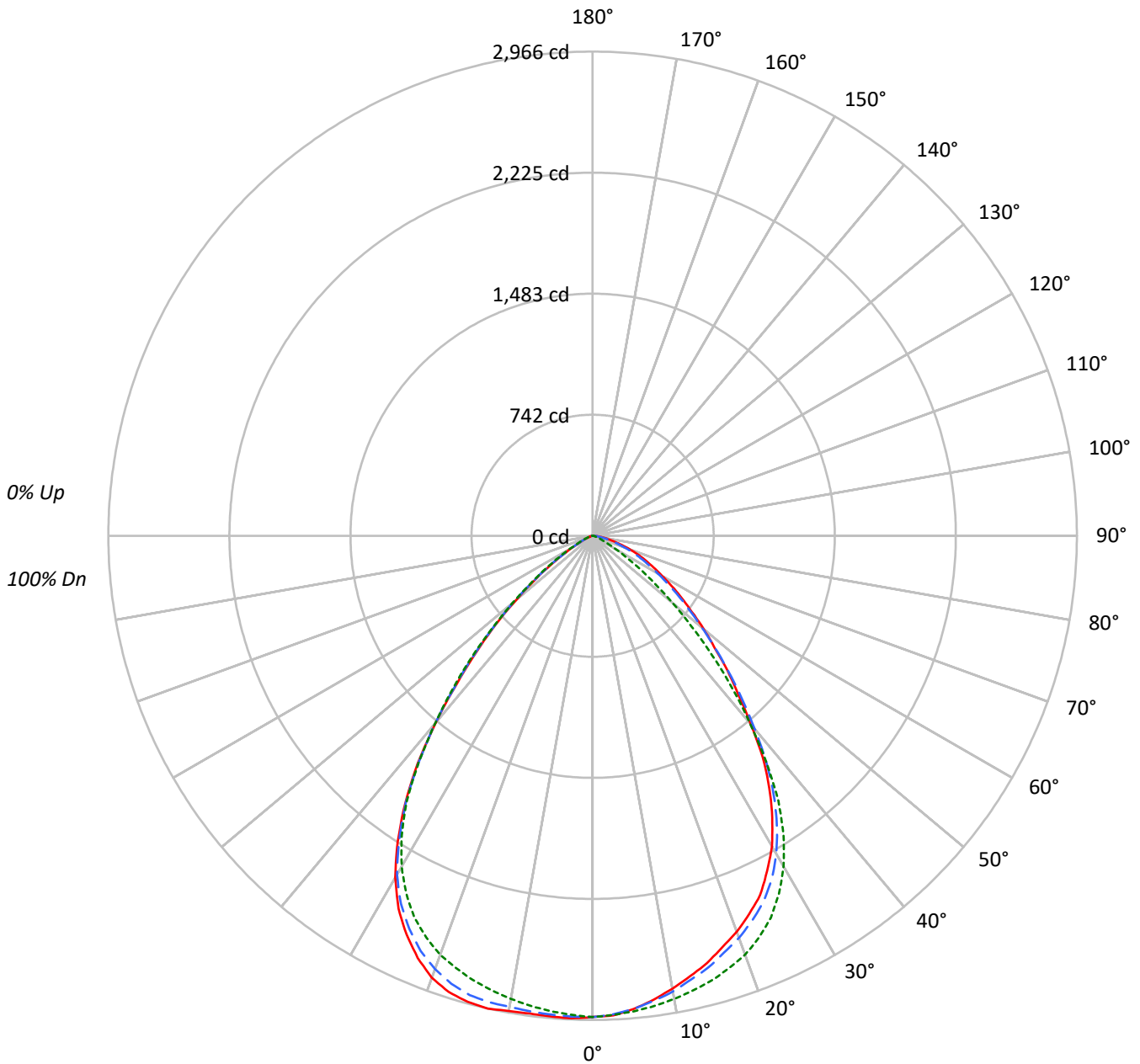
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72				72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64				64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47				47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40				40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	192342	192342	192342
5°	190516	191453	193549
10°	186585	190831	195787
15°	183025	190475	199614
20°	179227	189614	199993
25°	174809	185829	194036
30°	165507	176235	182141
35°	150296	157966	159376
40°	128268	127663	127067
45°	107755	95595	92642
50°	89987	64694	61446
55°	75742	39697	36045
60°	64118	20903	18124
65°	55512	10991	8799
70°	46181	6791	4750
75°	34080	4487	2672
80°	26750	2668	1315
85°	21334	2620	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	5.6
10°-20°	795.6	16.1
20°-30°	1174.8	23.8
30°-40°	1210.7	24.5
40°-50°	836.2	16.9
50°-60°	412.2	8.3
60°-70°	167.0	3.4
70°-80°	59.5	1.2
80°-90°	12.3	0.2
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°	2248.2	45.5
0°-40°	3459.0	69.9
0°-60°	4707.4	95.2
0°-90°	4946.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2948	2948	2948	2948	2948	
5°	2909	2909	2923	2945	2955	275
15°	2710	2738	2820	2913	2955	763
25°	2428	2475	2582	2656	2696	1110
35°	1887	1934	1983	1994	2001	1169
45°	1168	1175	1036	1022	1004	903
55°	666	641	349	328	317	602
65°	360	324	71	57	57	357
75°	135	114	18	11	11	152
85°	28	21	4	0	0	35
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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2941.1	2930.5	2937.6	2923.4	2941.1	2923.4	2926.9	2930.5	2926.9	2930.5	2934.0
5°	2909.1	2898.4	2909.1	2891.2	2909.1	2898.4	2898.4	2902.0	2902.0	2905.5	2909.1
7.5°	2866.4	2855.8	2866.4	2848.6	2869.9	2859.2	2859.2	2866.4	2862.8	2866.4	2873.5
10°	2816.5	2802.2	2813.0	2802.2	2823.6	2809.4	2816.5	2816.5	2816.5	2827.2	2834.4
12.5°	2763.1	2748.9	2763.1	2745.2	2766.6	2756.0	2759.5	2770.2	2773.8	2780.9	2784.5
15°	2709.8	2691.9	2699.0	2688.4	2709.8	2699.0	2702.6	2716.9	2716.9	2727.5	2738.1
17.5°	2642.0	2627.8	2642.0	2627.8	2645.6	2638.5	2645.6	2656.2	2656.2	2667.0	2677.6
20°	2581.5	2567.2	2578.0	2567.2	2588.6	2578.0	2581.5	2595.8	2599.4	2610.0	2620.6
22.5°	2506.8	2496.0	2503.1	2492.5	2513.9	2506.8	2510.2	2524.5	2528.1	2535.2	2553.0
25°	2428.4	2407.0	2417.8	2410.6	2432.0	2421.2	2428.4	2442.6	2449.8	2460.5	2474.8
27.5°	2314.5	2303.8	2310.9	2310.9	2328.8	2318.0	2321.6	2335.9	2346.5	2357.2	2375.0
30°	2197.0	2179.1	2186.2	2189.9	2204.1	2197.0	2204.1	2218.4	2221.9	2236.1	2250.4
32.5°	2047.4	2040.2	2054.5	2047.4	2054.5	2054.5	2058.1	2068.8	2075.9	2083.0	2100.9
35°	1887.1	1872.9	1887.1	1880.0	1897.9	1887.1	1897.9	1908.5	1908.5	1922.8	1933.5
37.5°	1712.8	1694.9	1702.0	1702.0	1709.1	1705.6	1705.6	1723.4	1727.0	1737.6	1748.2
40°	1506.1	1499.0	1513.2	1509.8	1513.2	1513.2	1516.9	1527.5	1534.6	1538.2	1541.8
42.5°	1321.0	1324.6	1328.1	1328.1	1328.1	1328.1	1328.1	1342.4	1338.9	1349.5	1353.1
45°	1167.9	1153.6	1160.8	1157.2	1167.9	1157.2	1167.9	1178.6	1171.5	1182.1	1175.0
47.5°	1011.2	1011.2	1011.2	1007.6	1014.8	1011.2	1018.4	1021.9	1021.9	1021.9	1018.4
50°	886.6	875.9	879.5	879.5	883.0	879.5	886.6	890.1	890.1	883.0	868.9
52.5°	765.5	762.0	762.0	769.1	769.1	765.5	765.5	765.5	765.5	754.9	747.8
55°	665.9	658.8	662.2	662.2	662.2	662.2	665.9	662.2	662.2	651.6	640.9
57.5°	576.9	569.8	569.8	569.8	573.2	569.8	569.8	569.8	566.1	555.5	541.2
60°	491.4	487.9	491.4	491.4	495.0	491.4	491.4	491.4	484.2	473.6	459.4
62.5°	420.1	420.1	420.1	423.8	423.8	420.1	420.1	416.6	413.0	398.8	384.5
65°	359.6	356.1	359.6	359.6	363.2	363.2	359.6	356.1	352.5	338.2	324.0
67.5°	299.1	295.5	299.1	299.1	302.6	299.1	299.1	299.1	288.4	281.2	267.0
70°	242.1	238.6	238.6	238.6	242.1	235.0	238.6	238.6	231.5	220.8	206.5
72.5°	185.1	185.1	185.1	185.1	185.1	185.1	181.6	181.6	174.5	163.8	156.6
75°	135.2	135.2	138.9	138.9	135.2	135.2	135.2	131.8	128.1	121.1	114.0
77.5°	99.8	99.8	99.8	99.8	96.1	96.1	96.1	92.6	89.0	85.5	78.4
80°	71.2	71.2	71.2	67.6	71.2	67.6	67.6	67.6	60.5	57.0	53.4
82.5°	49.9	46.2	46.2	46.2	46.2	46.2	46.2	42.8	42.8	39.1	35.6
85°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	24.9	21.4	21.4
87.5°	14.2	17.8	17.8	17.8	17.8	17.8	17.8	14.2	14.2	14.2	10.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2934.0	2934.0	2941.1	2930.5	2948.2	2937.6	2934.0	2951.9	2941.1	2937.6	2944.8
5°	2909.1	2912.6	2916.2	2909.1	2926.9	2916.2	2916.2	2934.0	2926.9	2923.4	2934.0
7.5°	2877.0	2880.6	2887.8	2884.1	2898.4	2891.2	2894.9	2912.6	2905.5	2905.5	2916.2
10°	2837.9	2845.0	2852.1	2852.1	2869.9	2862.8	2862.8	2884.1	2877.0	2880.6	2894.9
12.5°	2791.6	2802.2	2813.0	2816.5	2834.4	2823.6	2827.2	2852.1	2848.6	2852.1	2866.4
15°	2741.8	2756.0	2766.6	2766.6	2788.0	2777.4	2788.0	2813.0	2805.9	2820.1	2837.9
17.5°	2684.8	2699.0	2713.2	2716.9	2738.1	2731.1	2745.2	2770.2	2770.2	2777.4	2798.8
20°	2631.4	2649.1	2656.2	2667.0	2688.4	2684.8	2691.9	2720.4	2720.4	2731.1	2752.4
22.5°	2560.1	2578.0	2592.2	2602.9	2620.6	2620.6	2631.4	2656.2	2656.2	2663.4	2684.8
25°	2481.9	2503.1	2513.9	2524.5	2542.4	2538.8	2549.5	2570.9	2574.4	2581.5	2602.9
27.5°	2382.1	2399.9	2414.1	2421.2	2446.2	2432.0	2442.6	2467.6	2464.0	2471.1	2489.0
30°	2257.5	2275.2	2289.5	2289.5	2310.9	2310.9	2321.6	2332.2	2332.2	2339.4	2353.6
32.5°	2111.5	2132.9	2132.9	2143.5	2157.8	2143.5	2157.8	2172.0	2164.9	2175.6	2186.2
35°	1944.1	1954.9	1958.4	1958.4	1969.1	1965.5	1962.0	1972.6	1965.5	1983.4	1994.0
37.5°	1741.2	1755.4	1748.2	1755.4	1751.9	1741.2	1741.2	1759.0	1744.8	1748.2	1759.0
40°	1545.4	1545.4	1541.8	1524.0	1527.5	1516.9	1513.2	1516.9	1502.6	1499.0	1513.2
42.5°	1342.4	1338.9	1328.1	1303.2	1306.8	1289.0	1274.8	1274.8	1267.6	1264.0	1267.6
45°	1160.8	1150.1	1132.2	1103.9	1096.8	1082.5	1054.0	1046.9	1036.1	1036.1	1039.8
47.5°	993.5	979.2	950.8	918.6	900.9	883.0	854.6	843.9	826.1	819.0	826.1
50°	854.6	829.6	794.0	747.8	730.0	708.6	680.1	662.2	644.5	637.4	633.8
52.5°	726.4	690.8	655.1	598.2	584.0	562.6	523.4	505.6	487.9	473.6	473.6
55°	616.0	584.0	534.1	480.8	459.4	438.0	398.8	373.9	356.1	349.0	341.9
57.5°	516.2	480.8	434.4	377.4	356.1	334.8	295.5	270.6	252.8	242.1	235.0
60°	434.4	395.2	349.0	299.1	274.1	252.8	213.6	188.8	170.9	160.2	153.1
62.5°	356.1	324.0	277.8	231.5	210.1	188.8	156.6	131.8	114.0	106.9	96.1
65°	299.1	267.0	224.4	185.1	167.4	146.0	117.5	96.1	81.9	71.2	64.1
67.5°	242.1	217.2	181.6	146.0	128.1	114.0	89.0	71.2	57.0	49.9	46.2
70°	192.2	167.4	138.9	110.4	99.8	85.5	67.6	49.9	42.8	35.6	32.0
72.5°	142.4	124.6	103.2	81.9	71.2	64.1	46.2	39.1	28.5	24.9	21.4
75°	103.2	89.0	74.8	57.0	49.9	46.2	35.6	24.9	21.4	17.8	14.2
77.5°	71.2	64.1	49.9	39.1	35.6	32.0	24.9	17.8	14.2	10.6	10.6
80°	46.2	39.1	32.0	24.9	24.9	21.4	14.2	10.6	10.6	7.1	7.1
82.5°	28.5	24.9	21.4	17.8	14.2	14.2	10.6	7.1	7.1	3.5	3.5
85°	17.8	14.2	10.6	10.6	7.1	7.1	7.1	3.5	3.5	3.5	3.5
87.5°	7.1	7.1	7.1	3.5	3.5	3.5	3.5	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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2944.8	2944.8	2951.9	2941.1	2948.2	2948.2	2955.4	2941.1	2948.2	2951.9	2959.0
5°	2930.5	2934.0	2941.1	2937.6	2941.1	2941.1	2948.2	2930.5	2944.8	2944.8	2955.4
7.5°	2916.2	2916.2	2923.4	2919.8	2926.9	2930.5	2937.6	2923.4	2937.6	2937.6	2948.2
10°	2898.4	2898.4	2909.1	2905.5	2916.2	2919.8	2930.5	2916.2	2930.5	2934.0	2944.8
12.5°	2873.5	2877.0	2887.8	2887.8	2898.4	2905.5	2916.2	2909.1	2926.9	2930.5	2944.8
15°	2845.0	2852.1	2866.4	2862.8	2873.5	2884.1	2898.4	2887.8	2912.6	2919.8	2934.0
17.5°	2809.4	2816.5	2827.2	2827.2	2837.9	2845.0	2862.8	2855.8	2877.0	2880.6	2898.4
20°	2756.0	2766.6	2780.9	2777.4	2788.0	2795.1	2809.4	2802.2	2823.6	2830.8	2848.6
22.5°	2691.9	2699.0	2709.8	2709.8	2720.4	2727.5	2741.8	2731.1	2752.4	2756.0	2770.2
25°	2606.5	2613.5	2620.6	2624.2	2634.9	2638.5	2645.6	2638.5	2656.2	2659.9	2677.6
27.5°	2496.0	2499.6	2510.2	2510.2	2517.4	2521.0	2531.6	2517.4	2542.4	2542.4	2553.0
30°	2364.4	2360.8	2375.0	2367.9	2375.0	2375.0	2385.6	2378.5	2396.4	2389.2	2399.9
32.5°	2189.9	2197.0	2197.0	2189.9	2204.1	2200.5	2200.5	2193.4	2204.1	2207.6	2214.8
35°	1986.9	1997.5	1997.5	2001.1	2004.6	1994.0	1997.5	1976.2	1994.0	1997.5	2001.1
37.5°	1766.1	1755.4	1762.5	1751.9	1769.6	1748.2	1748.2	1734.1	1748.2	1748.2	1751.9
40°	1513.2	1509.8	1516.9	1509.8	1506.1	1502.6	1495.5	1484.9	1499.0	1492.0	1502.6
42.5°	1274.8	1271.1	1271.1	1264.0	1260.5	1260.5	1253.4	1246.2	1242.8	1242.8	1260.5
45°	1029.0	1036.1	1029.0	1025.5	1032.6	1025.5	1029.0	1014.8	1021.9	1014.8	1021.9
47.5°	822.5	826.1	819.0	811.9	822.5	811.9	811.9	801.1	815.4	815.4	808.2
50°	637.4	633.8	626.6	633.8	630.2	630.2	630.2	619.6	626.6	616.0	623.1
52.5°	470.0	466.5	466.5	462.9	466.5	462.9	462.9	459.4	459.4	455.8	459.4
55°	341.9	338.2	331.1	331.1	331.1	334.8	331.1	327.6	327.6	324.0	327.6
57.5°	231.5	224.4	224.4	224.4	224.4	220.8	220.8	217.2	220.8	217.2	220.8
60°	149.5	149.5	142.4	142.4	142.4	142.4	142.4	138.9	142.4	142.4	142.4
62.5°	92.6	92.6	89.0	85.5	89.0	85.5	85.5	85.5	89.0	85.5	89.0
65°	60.5	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
67.5°	42.8	39.1	39.1	39.1	39.1	39.1	39.1	35.6	39.1	39.1	39.1
70°	28.5	28.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	14.2	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	10.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	7.1	7.1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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: P252286

CATALOG NUMBER: LE_6B40D010 EC6B30508035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2948.2	2951.9	2944.8	2948.2	2941.1	2948.2	2951.9	2959.0
5°	2941.1	2944.8	2937.6	2944.8	2937.6	2944.8	2948.2	2955.4
7.5°	2934.0	2941.1	2934.0	2941.1	2934.0	2941.1	2944.8	2951.9
10°	2934.0	2944.8	2937.6	2948.2	2937.6	2944.8	2951.9	2955.4
12.5°	2934.0	2944.8	2941.1	2948.2	2944.8	2951.9	2959.0	2966.1
15°	2926.9	2937.6	2930.5	2941.1	2937.6	2941.1	2955.4	2955.4
17.5°	2887.8	2898.4	2898.4	2905.5	2905.5	2916.2	2923.4	2930.5
20°	2837.9	2848.6	2845.0	2855.8	2855.8	2866.4	2873.5	2880.6
22.5°	2763.1	2777.4	2773.8	2784.5	2780.9	2788.0	2802.2	2798.8
25°	2667.0	2684.8	2681.2	2688.4	2684.8	2684.8	2691.9	2695.5
27.5°	2549.5	2560.1	2556.6	2563.8	2556.6	2563.8	2570.9	2574.4
30°	2396.4	2403.5	2399.9	2403.5	2399.9	2407.0	2410.6	2417.8
32.5°	2211.2	2221.9	2211.2	2218.4	2214.8	2214.8	2229.0	2221.9
35°	1990.5	1994.0	1997.5	1997.5	1990.5	1994.0	2001.1	2001.1
37.5°	1744.8	1762.5	1741.2	1751.9	1748.2	1748.2	1748.2	1759.0
40°	1488.4	1492.0	1484.9	1484.9	1484.9	1481.2	1495.5	1492.0
42.5°	1246.2	1249.8	1246.2	1235.6	1239.1	1239.1	1249.8	1235.6
45°	1011.2	1018.4	1014.8	1014.8	1007.6	1007.6	1011.2	1004.1
47.5°	801.1	808.2	797.6	801.1	794.0	801.1	797.6	804.8
50°	608.9	616.0	612.5	616.0	616.0	608.9	619.6	605.4
52.5°	455.8	459.4	455.8	452.2	448.6	448.6	455.8	452.2
55°	324.0	320.5	320.5	320.5	324.0	324.0	320.5	316.9
57.5°	217.2	217.2	213.6	213.6	217.2	210.1	213.6	210.1
60°	138.9	138.9	138.9	138.9	135.2	138.9	138.9	138.9
62.5°	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
65°	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
67.5°	35.6	39.1	39.1	39.1	35.6	35.6	35.6	35.6
70°	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
72.5°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
75°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	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)