

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: P252597

Luminaire Tested: **LE_6B40D010 EC6B30508030 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252597
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 EC6B30508030 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

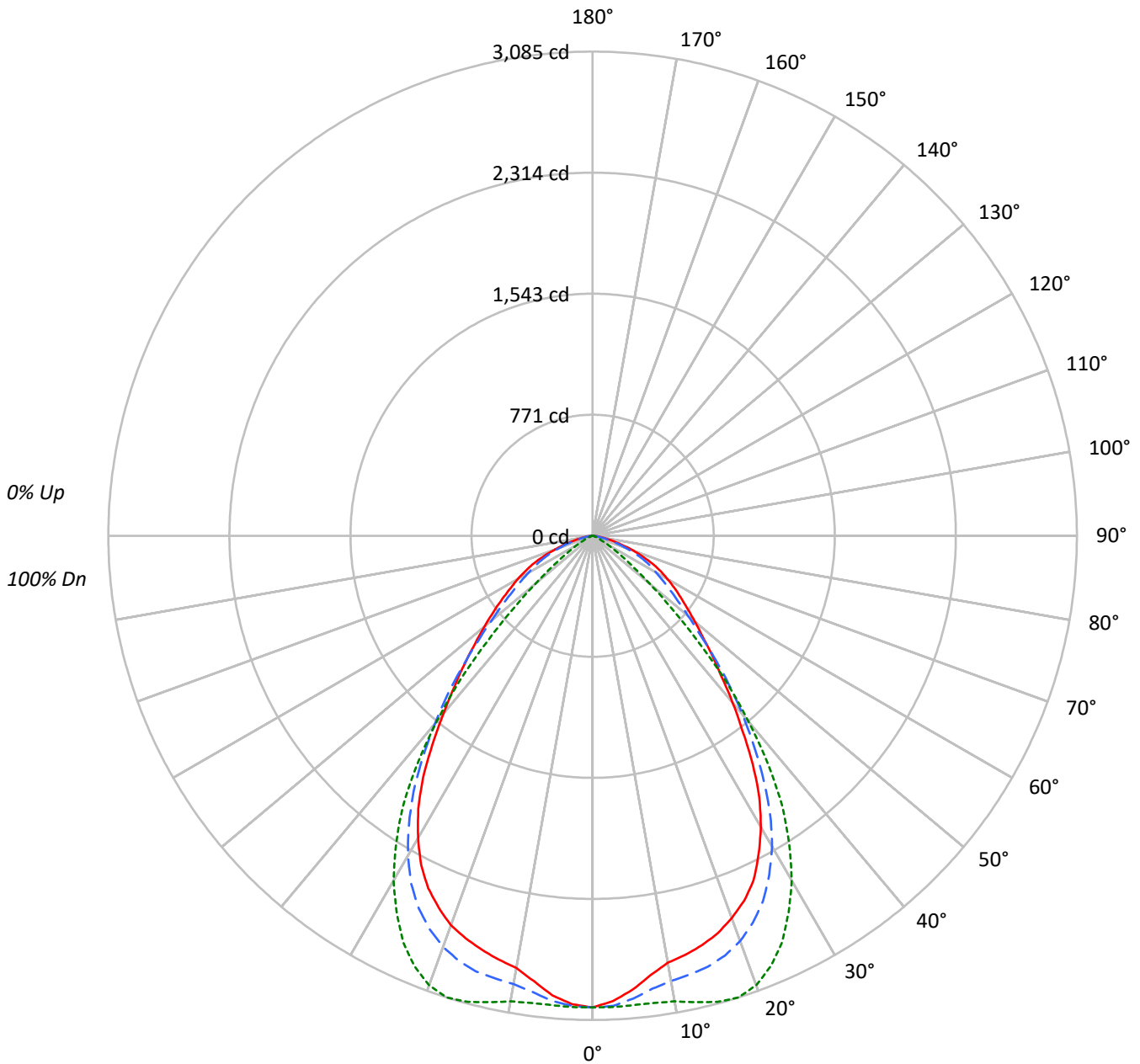
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	196055	196055	196055
5°	190209	196574	192481
10°	182968	199536	185267
15°	182323	207665	184430
20°	179929	211532	183317
25°	174557	205575	178307
30°	161477	191053	167496
35°	141671	167953	149970
40°	118048	131666	125747
45°	99369	86867	106095
50°	86028	47602	91326
55°	77846	25297	79825
60°	71621	13153	71621
65°	64898	6962	63293
70°	52361	3987	48374
75°	35920	2622	33273
80°	23482	1315	20889
85°	15645	2620	13025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	5.4
10°-20°	810.3	15.6
20°-30°	1197.2	23.0
30°-40°	1209.3	23.2
40°-50°	833.5	16.0
50°-60°	478.7	9.2
60°-70°	278.6	5.4
70°-80°	101.7	2.0
80°-90°	15.6	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°	2287.7	44.0
0°-40°	3497.0	67.2
0°-60°	4809.2	92.4
0°-90°	5205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3005	3005	3005	3005	3005	
5°	2904	2960	3002	2974	2939	272
15°	2699	2842	3075	2873	2731	760
25°	2425	2567	2856	2620	2477	1105
35°	1779	1900	2109	1987	1883	1104
45°	1077	1091	942	1160	1150	837
55°	684	601	222	625	702	616
65°	420	354	45	351	410	412
75°	142	115	10	111	132	160
85°	21	10	4	14	17	26
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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2966.9	2970.4	2973.9	2970.4	2973.9	2987.8	2977.4	2984.2	2984.2	2987.8	2998.1
5°	2904.4	2904.4	2911.2	2907.9	2918.2	2932.1	2921.8	2932.1	2935.6	2942.6	2960.0
7.5°	2824.5	2824.5	2827.9	2827.9	2841.9	2855.8	2848.8	2862.6	2876.6	2890.5	2911.2
10°	2761.9	2768.9	2768.9	2772.4	2786.2	2803.6	2800.1	2817.5	2831.4	2852.2	2880.0
12.5°	2734.1	2737.6	2737.6	2744.5	2758.5	2775.9	2772.4	2789.8	2810.5	2834.9	2862.6
15°	2699.4	2706.4	2702.9	2709.8	2723.8	2741.1	2737.6	2755.0	2779.2	2803.6	2841.9
17.5°	2654.2	2657.8	2661.1	2661.1	2675.1	2689.0	2689.0	2706.4	2734.1	2761.9	2803.6
20°	2591.6	2598.6	2598.6	2602.1	2612.5	2633.4	2629.9	2647.2	2675.1	2702.9	2748.0
22.5°	2518.8	2522.2	2522.2	2525.6	2543.0	2553.5	2557.0	2570.9	2595.1	2626.4	2668.1
25°	2424.9	2428.4	2424.9	2435.4	2442.2	2463.1	2456.2	2473.6	2501.4	2525.6	2567.4
27.5°	2289.5	2296.4	2296.4	2299.9	2317.2	2334.6	2334.6	2352.0	2376.2	2393.6	2435.4
30°	2143.5	2154.0	2143.5	2160.9	2167.9	2181.8	2192.1	2202.6	2223.4	2247.8	2286.0
32.5°	1976.8	1973.2	1976.8	1983.8	2004.5	2015.0	2021.9	2032.4	2053.2	2074.0	2105.2
35°	1778.8	1785.8	1789.1	1803.1	1803.1	1820.4	1823.9	1830.9	1862.1	1876.0	1900.4
37.5°	1570.2	1577.2	1580.8	1587.6	1601.6	1608.5	1618.9	1629.4	1650.2	1674.5	1688.4
40°	1386.1	1386.1	1389.6	1396.6	1407.0	1410.5	1420.9	1434.8	1448.8	1469.5	1483.5
42.5°	1212.5	1216.0	1212.5	1219.4	1229.9	1243.8	1240.2	1257.6	1261.1	1275.0	1285.4
45°	1077.0	1077.0	1070.0	1077.0	1077.0	1090.9	1087.4	1094.4	1090.9	1097.9	1090.9
47.5°	948.4	951.9	948.4	951.9	951.9	951.9	955.4	948.4	951.9	941.5	920.6
50°	847.6	851.1	844.2	847.6	844.2	840.8	844.2	833.8	830.2	816.4	795.6
52.5°	760.9	757.4	753.9	753.9	753.9	750.4	746.9	736.5	726.1	712.2	687.9
55°	684.4	680.9	677.5	677.5	670.5	667.0	667.0	656.6	646.1	628.9	601.0
57.5°	614.9	611.5	608.0	608.0	604.5	597.5	597.5	587.1	573.2	552.4	528.1
60°	548.9	548.9	548.9	545.4	545.4	538.5	538.5	528.1	514.1	493.4	465.5
62.5°	489.9	486.4	486.4	486.4	486.4	482.9	479.4	472.5	458.6	437.8	413.4
65°	420.4	420.4	420.4	420.4	416.9	416.9	416.9	406.5	399.5	378.6	354.4
67.5°	343.9	343.9	343.9	343.9	340.5	343.9	343.9	337.0	330.0	309.2	288.4
70°	274.5	271.0	267.5	271.0	267.5	267.5	271.0	264.0	260.5	243.2	222.4
72.5°	201.5	205.0	201.5	201.5	201.5	198.0	201.5	198.0	191.1	177.1	163.2
75°	142.5	145.9	145.9	142.5	142.5	142.5	139.0	139.0	132.0	121.6	114.6
77.5°	97.2	97.2	97.2	97.2	93.8	93.8	93.8	90.4	86.9	79.9	73.0
80°	62.5	62.5	62.5	62.5	59.0	59.0	59.0	55.6	55.6	48.6	41.8
82.5°	38.2	38.2	38.2	38.2	38.2	38.2	34.8	34.8	31.2	27.8	24.4
85°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	17.4	17.4	13.9	10.4
87.5°	7.0	7.0	10.4	10.4	10.4	10.4	10.4	10.4	7.0	7.0	7.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2991.2	2994.6	2994.6	2994.6	3005.1	3008.6	2998.1	2987.8	3008.6	3005.1	3012.0
5°	2956.5	2966.9	2973.9	2977.4	2987.8	2994.6	2984.2	2980.8	2998.1	3001.6	3005.1
7.5°	2914.8	2932.1	2949.5	2956.5	2970.4	2977.4	2973.9	2973.9	2994.6	3001.6	3001.6
10°	2887.0	2911.2	2932.1	2949.5	2966.9	2977.4	2977.4	2980.8	3005.1	3012.0	3019.0
12.5°	2880.0	2911.2	2939.1	2963.4	2977.4	2994.6	2998.1	3008.6	3032.9	3043.4	3043.4
15°	2862.6	2904.4	2939.1	2970.4	2991.2	3012.0	3019.0	3039.9	3067.6	3074.6	3081.5
17.5°	2831.4	2873.1	2914.8	2953.0	2980.8	2998.1	3019.0	3039.9	3074.6	3085.0	3088.5
20°	2775.9	2824.5	2866.1	2904.4	2932.1	2956.5	2977.4	3001.6	3032.9	3046.8	3050.2
22.5°	2692.4	2741.1	2782.8	2824.5	2852.2	2873.1	2893.9	2921.8	2953.0	2966.9	2966.9
25°	2591.6	2636.9	2682.0	2713.2	2741.1	2765.4	2775.9	2807.1	2838.4	2855.8	2855.8
27.5°	2463.1	2504.9	2546.5	2581.2	2598.6	2619.5	2636.9	2664.6	2689.0	2702.9	2716.8
30°	2299.9	2341.5	2379.8	2414.5	2435.4	2456.2	2473.6	2494.4	2518.8	2536.1	2539.6
32.5°	2122.6	2157.4	2195.6	2230.4	2251.2	2258.1	2275.5	2296.4	2317.2	2331.1	2334.6
35°	1928.1	1952.5	1976.8	2008.0	2028.9	2028.9	2046.2	2060.1	2077.5	2108.8	2101.9
37.5°	1698.9	1733.6	1751.0	1761.4	1775.2	1789.1	1792.6	1810.0	1830.9	1837.8	1848.2
40°	1483.5	1493.9	1504.2	1504.2	1518.1	1518.1	1518.1	1521.6	1542.5	1546.0	1559.9
42.5°	1268.0	1268.0	1257.6	1247.2	1250.6	1247.2	1229.9	1229.9	1240.2	1254.1	1254.1
45°	1066.5	1042.2	1011.0	986.6	969.2	962.4	941.5	941.5	938.0	941.5	955.4
47.5°	896.4	854.6	802.5	753.9	736.5	722.6	691.4	677.5	670.5	674.0	680.9
50°	753.9	708.8	649.6	590.6	559.4	542.0	503.8	479.4	476.0	469.0	482.9
52.5°	649.6	594.1	531.5	462.0	430.8	403.0	361.2	340.5	326.6	326.6	330.0
55°	559.4	500.2	430.8	361.2	330.0	309.2	267.5	239.8	225.9	222.4	232.8
57.5°	482.9	427.4	357.9	288.4	257.1	232.8	191.1	166.8	156.4	149.4	152.9
60°	423.9	368.2	298.8	232.8	205.0	177.1	142.5	114.6	100.8	100.8	104.2
62.5°	368.2	316.1	253.6	191.1	166.8	142.5	104.2	79.9	69.5	66.0	69.5
65°	312.6	264.0	211.9	159.8	135.5	114.6	83.4	62.5	48.6	45.1	48.6
67.5°	253.6	215.4	170.2	128.5	107.8	90.4	62.5	45.1	34.8	31.2	34.8
70°	198.0	163.2	128.5	93.8	79.9	66.0	45.1	34.8	24.4	20.9	24.4
72.5°	142.5	118.1	90.4	66.0	55.6	45.1	31.2	24.4	17.4	13.9	17.4
75°	97.2	79.9	59.0	41.8	34.8	31.2	20.9	13.9	10.4	10.4	10.4
77.5°	62.5	48.6	38.2	27.8	20.9	17.4	10.4	7.0	7.0	7.0	7.0
80°	34.8	27.8	20.9	13.9	10.4	10.4	7.0	7.0	3.5	3.5	3.5
82.5°	20.9	13.9	10.4	7.0	7.0	3.5	3.5	3.5	3.5	3.5	3.5
85°	10.4	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2998.1	3001.6	2991.2	3005.1	2994.6	3008.6	3008.6	2994.6	2998.1	2991.2	3005.1
5°	2991.2	2991.2	2984.2	2994.6	2980.8	2994.6	2991.2	2966.9	2973.9	2960.0	2973.9
7.5°	2991.2	2984.2	2973.9	2984.2	2966.9	2977.4	2963.4	2939.1	2932.1	2914.8	2914.8
10°	3001.6	2991.2	2977.4	2980.8	2963.4	2966.9	2946.0	2911.2	2900.9	2880.0	2873.1
12.5°	3026.0	3015.5	2994.6	3001.6	2977.4	2977.4	2949.5	2907.9	2887.0	2859.2	2852.2
15°	3060.8	3043.4	3019.0	3022.5	2998.1	2984.2	2949.5	2900.9	2873.1	2834.9	2824.5
17.5°	3067.6	3050.2	3019.0	3019.0	2987.8	2970.4	2928.6	2873.1	2838.4	2800.1	2779.2
20°	3029.4	3012.0	2977.4	2973.9	2946.0	2921.8	2876.6	2821.0	2786.2	2744.5	2727.1
22.5°	2949.5	2928.6	2897.4	2893.9	2866.1	2852.2	2803.6	2748.0	2713.2	2671.6	2657.8
25°	2831.4	2821.0	2789.8	2786.2	2761.9	2744.5	2702.9	2650.8	2619.5	2577.8	2563.9
27.5°	2692.4	2682.0	2650.8	2650.8	2623.0	2612.5	2574.4	2525.6	2501.4	2463.1	2445.8
30°	2525.6	2511.8	2494.4	2490.9	2466.6	2456.2	2421.5	2376.2	2352.0	2320.8	2313.8
32.5°	2327.6	2317.2	2306.8	2303.4	2279.0	2268.6	2244.2	2199.1	2178.2	2150.5	2140.0
35°	2098.4	2091.4	2081.0	2077.5	2067.1	2056.6	2032.4	1997.6	1987.2	1966.4	1955.9
37.5°	1834.4	1841.2	1834.4	1834.4	1823.9	1827.4	1806.5	1785.8	1775.2	1761.4	1754.4
40°	1549.5	1563.4	1573.8	1573.8	1570.2	1584.2	1580.8	1563.4	1559.9	1552.9	1549.5
42.5°	1261.1	1268.0	1288.9	1302.8	1299.4	1334.0	1337.5	1351.4	1361.9	1354.9	1358.4
45°	958.9	979.8	1007.5	1021.4	1038.8	1083.9	1108.2	1136.0	1160.4	1174.2	1170.8
47.5°	691.4	715.6	746.9	767.8	799.0	854.6	917.1	951.9	986.6	1004.0	1021.4
50°	500.2	524.6	562.8	594.1	614.9	691.4	757.4	802.5	840.8	865.0	882.4
52.5°	350.9	378.6	420.4	448.1	479.4	552.4	628.9	680.9	722.6	753.9	771.2
55°	243.2	274.5	312.6	340.5	375.2	451.6	524.6	580.1	625.4	653.1	674.0
57.5°	170.2	198.0	236.2	260.5	295.2	368.2	441.2	496.8	542.0	569.8	594.1
60°	114.6	142.5	180.6	205.0	232.8	305.8	371.8	430.8	472.5	500.2	524.6
62.5°	79.9	104.2	142.5	166.8	191.1	253.6	316.1	368.2	410.0	441.2	462.0
65°	62.5	83.4	114.6	135.5	159.8	211.9	264.0	309.2	350.9	382.1	396.0
67.5°	45.1	66.0	90.4	107.8	125.1	170.2	215.4	250.1	288.4	312.6	330.0
70°	31.2	45.1	66.0	79.9	93.8	128.5	163.2	194.5	222.4	239.8	253.6
72.5°	24.4	31.2	45.1	55.6	66.0	90.4	118.1	142.5	163.2	177.1	191.1
75°	13.9	20.9	31.2	38.2	45.1	62.5	79.9	97.2	111.1	121.6	128.5
77.5°	7.0	10.4	17.4	20.9	27.8	38.2	52.1	62.5	73.0	79.9	86.9
80°	7.0	7.0	10.4	10.4	13.9	20.9	27.8	34.8	41.8	48.6	52.1
82.5°	3.5	3.5	7.0	7.0	7.0	10.4	13.9	20.9	24.4	27.8	31.2
85°	3.5	3.5	3.5	3.5	3.5	7.0	7.0	10.4	13.9	17.4	17.4
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	7.0	7.0	7.0	10.4
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: P252597

CATALOG NUMBER: LE_6B40D010 EC6B30508030 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	2994.6	3001.6	2998.1	3005.1	2994.6	2991.2	2998.1	2987.8
5°	2956.5	2960.0	2956.5	2956.5	2949.5	2942.6	2949.5	2939.1
7.5°	2897.4	2897.4	2887.0	2887.0	2873.1	2866.1	2866.1	2862.6
10°	2848.8	2838.4	2827.9	2831.4	2810.5	2803.6	2800.1	2796.6
12.5°	2824.5	2817.5	2800.1	2800.1	2779.2	2772.4	2768.9	2765.4
15°	2796.6	2782.8	2768.9	2765.4	2748.0	2741.1	2737.6	2730.6
17.5°	2748.0	2737.6	2720.2	2720.2	2702.9	2699.4	2692.4	2689.0
20°	2695.9	2682.0	2668.1	2668.1	2647.2	2647.2	2636.9	2640.4
22.5°	2623.0	2612.5	2598.6	2598.6	2581.2	2577.8	2567.4	2563.9
25°	2536.1	2522.2	2511.8	2508.2	2494.4	2487.5	2484.0	2477.0
27.5°	2421.5	2411.0	2400.6	2393.6	2376.2	2372.9	2362.4	2365.9
30°	2279.0	2272.1	2268.6	2261.6	2240.8	2233.9	2233.9	2223.4
32.5°	2122.6	2112.2	2105.2	2094.9	2077.5	2074.0	2063.6	2067.1
35°	1931.6	1917.8	1907.2	1910.8	1889.9	1886.5	1879.5	1883.0
37.5°	1733.6	1719.6	1705.8	1702.4	1685.0	1685.0	1674.5	1674.5
40°	1528.6	1514.8	1507.8	1507.8	1486.9	1490.4	1480.0	1476.5
42.5°	1344.5	1330.6	1327.1	1323.6	1313.2	1309.8	1299.4	1302.8
45°	1170.8	1167.2	1167.2	1160.4	1149.9	1146.5	1149.9	1149.9
47.5°	1017.9	1021.4	1017.9	1017.9	1011.0	1017.9	1011.0	1014.5
50°	889.4	896.4	896.4	896.4	892.9	896.4	896.4	899.8
52.5°	781.6	792.1	788.6	792.1	788.6	795.6	792.1	795.6
55°	687.9	694.9	698.2	701.8	701.8	701.8	701.8	701.8
57.5°	601.0	611.5	614.9	618.4	618.4	625.4	618.4	618.4
60°	531.5	542.0	545.4	548.9	548.9	552.4	545.4	548.9
62.5°	469.0	479.4	479.4	482.9	482.9	482.9	476.0	479.4
65°	406.5	410.0	413.4	413.4	410.0	410.0	406.5	410.0
67.5°	337.0	340.5	337.0	337.0	333.5	333.5	326.6	330.0
70°	260.5	260.5	264.0	260.5	257.1	260.5	257.1	253.6
72.5°	194.5	194.5	194.5	191.1	191.1	187.6	191.1	191.1
75°	132.0	132.0	135.5	135.5	135.5	135.5	132.0	132.0
77.5°	86.9	86.9	86.9	86.9	90.4	86.9	86.9	86.9
80°	55.6	55.6	59.0	59.0	55.6	55.6	55.6	55.6
82.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
85°	20.9	20.9	20.9	20.9	17.4	17.4	17.4	17.4
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	7.0	7.0
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)