

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: P252722

Luminaire Tested: **LE_6B50D010R EC6B30509040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B50D010R EC6B30509040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

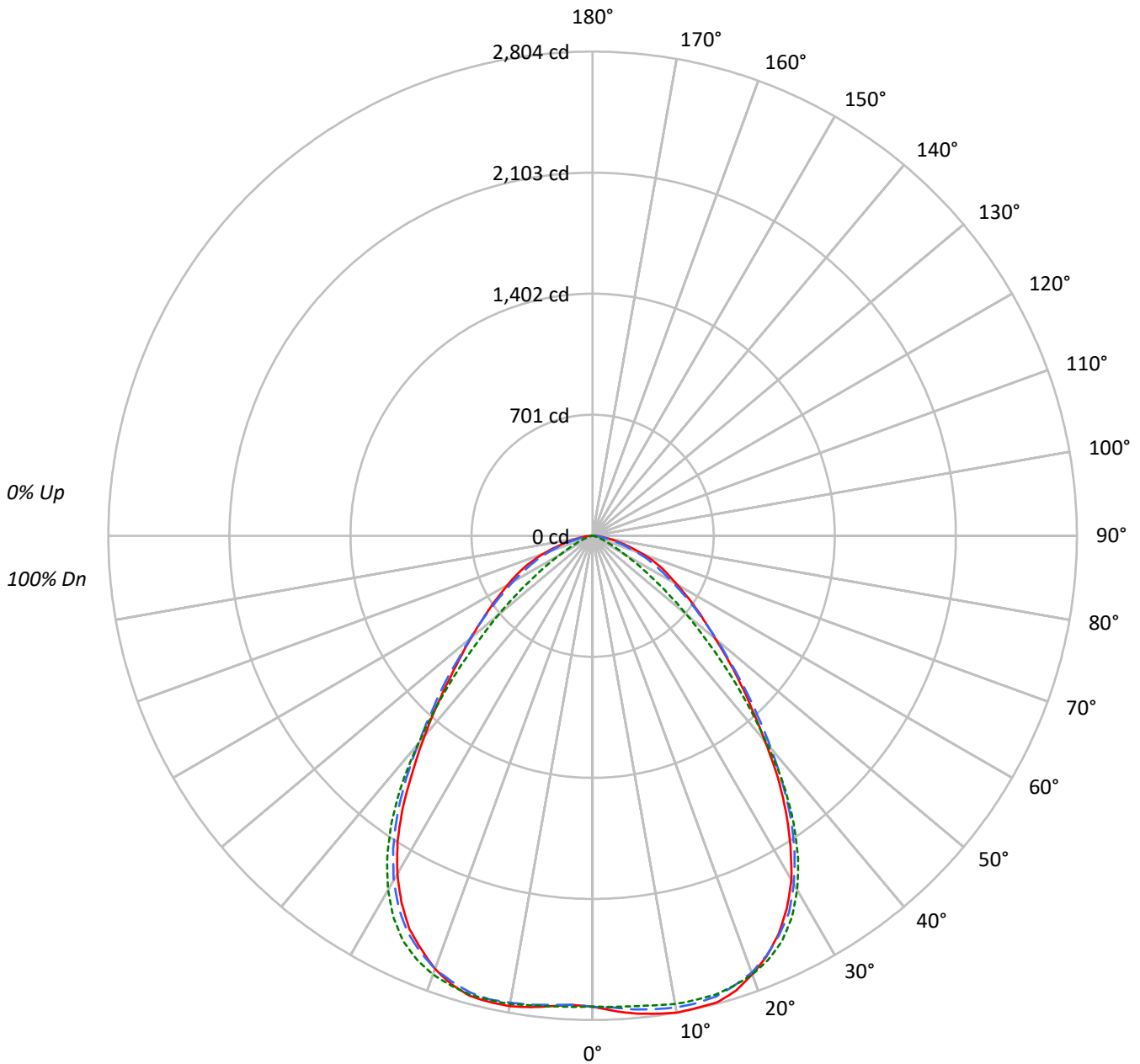
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	177905	177905	177905
5°	181872	179089	179089
10°	185763	182438	183206
15°	188875	185747	186268
20°	187718	187718	185309
25°	183245	186578	180755
30°	173463	178405	170269
35°	155433	161582	152367
40°	132049	133701	128770
45°	111741	102136	107820
50°	94341	72042	93174
55°	82919	46510	82032
60°	73474	27675	73983
65°	67893	16672	67893
70°	58866	9557	57397
75°	46658	5823	43759
80°	34790	4358	33363
85°	31739	2919	28894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	4.9
10°-20°	777.0	14.4
20°-30°	1168.6	21.6
30°-40°	1228.6	22.7
40°-50°	917.8	17.0
50°-60°	571.4	10.6
60°-70°	325.0	6.0
70°-80°	133.8	2.5
80°-90°	27.7	0.5
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°	2208.1	40.8
0°-40°	3436.8	63.5
0°-60°	4926.0	91.0
0°-90°	5412.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5412.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2727	2727	2727	2727	2727	
5°	2777	2754	2735	2727	2735	266
15°	2796	2762	2750	2738	2758	786
25°	2546	2553	2592	2534	2511	1165
35°	1952	2002	2029	1971	1913	1211
45°	1211	1238	1107	1215	1169	938
55°	729	714	409	702	721	656
65°	440	393	108	393	440	433
75°	185	147	23	143	174	201
85°	42	27	4	23	39	47
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°	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9
2.5°	2753.9	2750.1	2753.9	2746.2	2742.4	2742.4	2746.2	2738.5	2734.6	2738.5	2734.6
5°	2777.1	2769.4	2773.2	2769.4	2761.6	2761.6	2765.5	2753.9	2753.9	2757.8	2753.9
7.5°	2792.5	2792.5	2792.5	2784.8	2780.9	2777.1	2784.8	2773.2	2769.4	2769.4	2765.5
10°	2804.1	2800.2	2804.1	2796.4	2788.6	2784.8	2792.5	2784.8	2777.1	2784.8	2773.2
12.5°	2800.2	2800.2	2800.2	2796.4	2788.6	2784.8	2792.5	2780.9	2777.1	2780.9	2773.2
15°	2796.4	2784.8	2788.6	2784.8	2773.2	2773.2	2777.1	2765.5	2757.8	2769.4	2761.6
17.5°	2761.6	2753.9	2757.8	2750.1	2742.4	2738.5	2742.4	2738.5	2730.8	2738.5	2730.8
20°	2703.8	2703.8	2707.6	2699.9	2692.2	2688.4	2696.1	2688.4	2680.6	2692.2	2692.2
22.5°	2634.4	2634.4	2634.4	2630.5	2626.6	2626.6	2626.6	2622.8	2618.9	2626.6	2630.5
25°	2545.6	2541.8	2545.6	2549.5	2545.6	2541.8	2545.6	2545.6	2538.0	2553.4	2553.4
27.5°	2433.8	2433.8	2441.5	2437.6	2437.6	2433.8	2441.5	2441.5	2437.6	2449.2	2460.8
30°	2302.6	2295.0	2302.6	2302.6	2306.5	2306.5	2310.4	2310.4	2310.4	2322.0	2329.6
32.5°	2133.0	2136.8	2148.4	2144.5	2140.6	2152.2	2152.2	2160.0	2163.8	2171.5	2175.4
35°	1951.6	1955.5	1955.5	1959.4	1967.1	1959.4	1978.6	1974.8	1978.6	1994.1	2001.8
37.5°	1758.9	1747.2	1766.5	1758.9	1762.6	1762.6	1770.4	1774.2	1785.9	1805.1	1805.1
40°	1550.5	1554.4	1562.1	1566.0	1569.9	1569.9	1569.9	1581.4	1585.2	1608.4	1604.5
42.5°	1369.2	1369.2	1377.0	1380.9	1380.9	1380.9	1380.9	1392.4	1400.1	1407.9	1415.5
45°	1211.1	1199.5	1207.2	1207.2	1215.0	1211.1	1218.9	1226.5	1230.4	1242.0	1238.1
47.5°	1060.8	1056.9	1060.8	1064.5	1060.8	1064.5	1068.4	1072.2	1076.1	1076.1	1076.1
50°	929.5	929.5	933.4	937.2	937.2	937.2	937.2	941.1	941.1	948.9	941.1
52.5°	821.5	825.4	825.4	821.5	825.4	825.4	829.2	829.2	825.4	825.4	813.9
55°	729.0	725.1	729.0	725.1	729.0	729.0	725.1	725.1	721.2	717.4	713.5
57.5°	640.2	640.2	640.2	640.2	636.4	640.2	636.4	632.5	632.5	624.9	613.2
60°	563.1	563.1	563.1	563.1	563.1	559.2	563.1	559.2	551.5	543.9	528.4
62.5°	497.5	493.8	497.5	493.8	493.8	489.9	489.9	486.0	478.2	470.5	455.1
65°	439.8	443.5	439.8	439.8	435.9	432.0	432.0	428.1	416.5	408.9	393.4
67.5°	378.0	374.1	374.1	374.1	370.2	370.2	370.2	362.6	354.9	343.2	327.9
70°	308.6	308.6	308.6	304.8	304.8	300.9	300.9	297.0	289.2	281.6	262.2
72.5°	243.0	243.0	243.0	235.2	239.1	235.2	235.2	227.6	223.8	212.1	200.6
75°	185.1	185.1	181.2	181.2	177.4	173.6	173.6	169.8	165.9	158.1	146.6
77.5°	135.0	135.0	135.0	131.1	127.2	123.4	123.4	119.6	115.8	111.9	104.1
80°	92.6	92.6	92.6	92.6	88.8	84.9	84.9	81.0	81.0	77.1	69.4
82.5°	61.8	61.8	61.8	61.8	57.9	57.9	57.9	54.0	50.1	50.1	42.4
85°	42.4	42.4	38.6	38.6	38.6	38.6	34.8	34.8	30.9	27.0	27.0
87.5°	23.1	23.1	23.1	23.1	19.2	19.2	19.2	19.2	15.4	15.4	11.6
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°	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9
2.5°	2746.2	2746.2	2742.4	2730.8	2734.6	2730.8	2734.6	2730.8	2719.2	2730.8	2719.2
5°	2761.6	2765.5	2757.8	2742.4	2746.2	2742.4	2742.4	2738.5	2726.9	2734.6	2726.9
7.5°	2777.1	2773.2	2769.4	2753.9	2757.8	2753.9	2753.9	2746.2	2734.6	2742.4	2730.8
10°	2784.8	2784.8	2777.1	2761.6	2761.6	2757.8	2761.6	2757.8	2742.4	2753.9	2746.2
12.5°	2784.8	2780.9	2780.9	2761.6	2765.5	2761.6	2765.5	2757.8	2746.2	2753.9	2750.1
15°	2773.2	2773.2	2769.4	2750.1	2753.9	2753.9	2757.8	2750.1	2738.5	2750.1	2742.4
17.5°	2750.1	2750.1	2746.2	2730.8	2738.5	2738.5	2742.4	2734.6	2723.1	2730.8	2730.8
20°	2703.8	2707.6	2707.6	2696.1	2703.8	2703.8	2707.6	2703.8	2699.9	2703.8	2696.1
22.5°	2649.8	2657.5	2657.5	2645.9	2653.6	2653.6	2665.2	2661.4	2653.6	2657.5	2653.6
25°	2568.8	2576.5	2584.2	2576.5	2584.2	2584.2	2595.8	2591.9	2584.2	2591.9	2580.4
27.5°	2476.2	2480.1	2487.8	2480.1	2491.6	2487.8	2499.4	2495.5	2484.0	2495.5	2491.6
30°	2345.1	2360.5	2372.1	2360.5	2372.1	2372.1	2379.8	2376.0	2372.1	2368.2	2368.2
32.5°	2198.5	2214.0	2214.0	2210.1	2217.8	2217.8	2221.6	2214.0	2210.1	2214.0	2217.8
35°	2017.2	2025.0	2032.6	2028.8	2032.6	2036.5	2032.6	2036.5	2025.0	2028.8	2028.8
37.5°	1820.5	1828.2	1828.2	1816.6	1824.4	1824.4	1816.6	1816.6	1809.0	1816.6	1801.2
40°	1612.2	1604.5	1608.4	1600.6	1593.0	1593.0	1589.1	1573.6	1566.0	1569.9	1573.6
42.5°	1407.9	1407.9	1396.2	1377.0	1357.6	1357.6	1346.1	1338.4	1323.0	1330.6	1326.9
45°	1234.2	1215.0	1199.5	1168.6	1157.1	1149.4	1130.1	1110.9	1103.1	1107.0	1103.1
47.5°	1068.4	1053.0	1014.4	972.0	960.4	948.9	925.8	902.5	894.9	887.1	887.1
50°	929.5	902.5	860.1	813.9	794.5	775.2	744.4	721.2	705.9	709.8	709.8
52.5°	802.2	771.4	721.2	663.4	640.2	617.1	590.1	563.1	551.5	547.8	547.8
55°	690.4	655.8	605.5	540.0	520.8	493.8	459.0	428.1	412.8	408.9	416.5
57.5°	590.1	559.2	501.4	435.9	412.8	385.8	351.0	324.0	304.8	300.9	304.8
60°	509.1	466.8	416.5	354.9	324.0	300.9	262.2	239.1	219.9	212.1	216.0
62.5°	428.1	389.5	339.4	277.8	254.6	231.4	196.8	169.8	154.2	150.4	154.2
65°	366.4	327.9	281.6	227.6	204.4	181.2	150.4	123.4	111.9	108.0	111.9
67.5°	304.8	270.0	231.4	181.2	162.0	142.8	111.9	92.6	77.1	73.2	77.1
70°	246.9	216.0	177.4	142.8	123.4	108.0	84.9	65.6	54.0	50.1	54.0
72.5°	185.1	162.0	135.0	104.1	92.6	81.0	61.8	46.2	38.6	34.8	38.6
75°	135.0	115.8	96.4	73.2	65.6	57.9	42.4	30.9	27.0	23.1	27.0
77.5°	92.6	81.0	65.6	50.1	42.4	38.6	27.0	23.1	19.2	15.4	15.4
80°	61.8	54.0	42.4	34.8	30.9	27.0	19.2	15.4	11.6	11.6	11.6
82.5°	38.6	30.9	27.0	19.2	15.4	15.4	11.6	7.8	7.8	7.8	7.8
85°	23.1	19.2	15.4	11.6	7.8	7.8	3.9	3.9	3.9	3.9	3.9
87.5°	11.6	7.8	7.8	3.9	3.9	3.9	3.9	3.9	0.0	0.0	3.9
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°	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9
2.5°	2726.9	2719.2	2719.2	2723.1	2726.9	2730.8	2723.1	2719.2	2719.2	2730.8	2723.1
5°	2726.9	2723.1	2723.1	2723.1	2730.8	2734.6	2726.9	2723.1	2726.9	2738.5	2734.6
7.5°	2738.5	2730.8	2734.6	2734.6	2738.5	2746.2	2738.5	2734.6	2738.5	2750.1	2742.4
10°	2746.2	2738.5	2742.4	2738.5	2750.1	2753.9	2746.2	2742.4	2746.2	2761.6	2757.8
12.5°	2750.1	2746.2	2746.2	2742.4	2753.9	2757.8	2750.1	2746.2	2750.1	2761.6	2757.8
15°	2742.4	2738.5	2738.5	2738.5	2746.2	2753.9	2742.4	2738.5	2738.5	2750.1	2746.2
17.5°	2726.9	2719.2	2719.2	2719.2	2723.1	2726.9	2715.4	2711.5	2707.6	2719.2	2715.4
20°	2699.9	2692.2	2684.5	2684.5	2688.4	2688.4	2680.6	2669.1	2669.1	2672.9	2665.2
22.5°	2649.8	2645.9	2638.2	2634.4	2642.1	2638.2	2622.8	2611.2	2607.4	2611.2	2603.5
25°	2580.4	2572.6	2568.8	2564.9	2568.8	2564.9	2549.5	2534.1	2534.1	2534.1	2522.5
27.5°	2484.0	2476.2	2472.4	2472.4	2476.2	2468.5	2453.1	2437.6	2430.0	2430.0	2418.4
30°	2360.5	2360.5	2356.6	2352.8	2349.0	2349.0	2325.8	2310.4	2302.6	2306.5	2298.8
32.5°	2210.1	2206.2	2202.4	2190.8	2194.6	2190.8	2171.5	2160.0	2148.4	2140.6	2136.8
35°	2017.2	2017.2	2013.4	2013.4	2013.4	2009.5	1990.2	1978.6	1971.0	1967.1	1955.5
37.5°	1805.1	1801.2	1797.4	1797.4	1797.4	1797.4	1785.9	1774.2	1774.2	1770.4	1762.6
40°	1566.0	1569.9	1573.6	1569.9	1581.4	1593.0	1577.5	1569.9	1566.0	1577.5	1562.1
42.5°	1334.5	1330.6	1350.0	1353.9	1353.9	1373.1	1377.0	1380.9	1377.0	1384.6	1384.6
45°	1110.9	1107.0	1126.2	1134.0	1153.2	1176.4	1188.0	1207.2	1215.0	1222.6	1215.0
47.5°	898.8	914.1	929.5	948.9	964.2	1002.9	1026.0	1045.2	1053.0	1064.5	1064.5
50°	721.2	736.8	763.8	779.1	798.4	844.8	883.2	910.2	925.8	937.2	933.4
52.5°	555.4	582.4	617.1	632.5	659.5	713.5	756.0	786.9	806.1	817.8	821.5
55°	428.1	451.2	486.0	509.1	536.1	594.0	648.0	682.8	702.0	717.4	725.1
57.5°	316.2	343.2	381.9	401.1	432.0	497.5	543.9	586.2	609.4	628.8	632.5
60°	231.4	258.4	293.1	316.2	347.1	412.8	466.8	505.2	532.2	547.8	555.4
62.5°	165.9	192.9	227.6	250.8	277.8	335.6	389.5	428.1	455.1	474.4	486.0
65°	119.6	146.6	181.2	200.6	223.8	277.8	327.9	366.4	393.4	416.5	424.2
67.5°	88.8	108.0	138.9	158.1	181.2	223.8	266.1	300.9	327.9	347.1	354.9
70°	65.6	81.0	108.0	119.6	135.0	173.6	208.2	239.1	262.2	277.8	285.4
72.5°	46.2	57.9	77.1	88.8	100.2	131.1	158.1	181.2	196.8	212.1	219.9
75°	30.9	38.6	54.0	61.8	69.4	92.6	111.9	131.1	142.8	154.2	158.1
77.5°	19.2	27.0	38.6	42.4	50.1	61.8	77.1	88.8	96.4	104.1	111.9
80°	11.6	15.4	23.1	27.0	30.9	42.4	50.1	57.9	65.6	73.2	77.1
82.5°	7.8	11.6	15.4	15.4	19.2	23.1	30.9	38.6	42.4	46.2	50.1
85°	3.9	3.9	7.8	7.8	11.6	11.6	15.4	19.2	23.1	27.0	30.9
87.5°	3.9	3.9	3.9	3.9	7.8	7.8	11.6	11.6	11.6	15.4	15.4
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: P252722

CATALOG NUMBER: LE_6B50D010R EC6B30509040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9	2726.9
2.5°	2715.4	2726.9	2715.4	2723.1	2719.2	2719.2	2715.4	2719.2
5°	2726.9	2742.4	2726.9	2738.5	2730.8	2730.8	2730.8	2734.6
7.5°	2738.5	2753.9	2742.4	2753.9	2750.1	2746.2	2746.2	2753.9
10°	2750.1	2761.6	2753.9	2765.5	2761.6	2757.8	2757.8	2765.5
12.5°	2750.1	2765.5	2757.8	2769.4	2765.5	2761.6	2761.6	2765.5
15°	2738.5	2757.8	2746.2	2757.8	2753.9	2750.1	2750.1	2757.8
17.5°	2703.8	2719.2	2711.5	2719.2	2719.2	2715.4	2719.2	2723.1
20°	2657.5	2669.1	2661.4	2669.1	2669.1	2661.4	2665.2	2669.1
22.5°	2591.9	2603.5	2595.8	2603.5	2599.6	2595.8	2595.8	2591.9
25°	2511.0	2526.4	2514.8	2522.5	2514.8	2507.1	2507.1	2511.0
27.5°	2410.6	2422.2	2406.8	2414.5	2406.8	2399.1	2399.1	2395.2
30°	2279.5	2283.4	2271.8	2279.5	2271.8	2268.0	2260.2	2260.2
32.5°	2121.4	2125.2	2113.6	2113.6	2106.0	2106.0	2090.5	2102.1
35°	1936.2	1940.1	1936.2	1932.4	1920.8	1917.0	1913.1	1913.1
37.5°	1743.4	1743.4	1731.9	1728.0	1720.2	1712.5	1716.4	1704.9
40°	1546.6	1542.9	1531.2	1535.1	1531.2	1519.6	1515.9	1512.0
42.5°	1361.5	1361.5	1350.0	1353.9	1346.1	1342.2	1330.6	1334.5
45°	1199.5	1199.5	1188.0	1188.0	1184.1	1172.5	1176.4	1168.6
47.5°	1053.0	1053.0	1049.1	1049.1	1037.5	1033.8	1033.8	1033.8
50°	925.8	925.8	925.8	925.8	921.9	918.0	914.1	918.0
52.5°	817.8	825.4	821.5	821.5	817.8	813.9	810.0	810.0
55°	721.2	725.1	725.1	729.0	725.1	721.2	725.1	721.2
57.5°	636.4	644.1	644.1	644.1	644.1	644.1	640.2	636.4
60°	563.1	567.0	567.0	570.9	570.9	570.9	567.0	567.0
62.5°	489.9	497.5	501.4	501.4	505.2	501.4	501.4	501.4
65°	432.0	439.8	443.5	439.8	443.5	443.5	439.8	439.8
67.5°	362.6	370.2	370.2	370.2	370.2	374.1	370.2	370.2
70°	293.1	300.9	297.0	300.9	300.9	300.9	300.9	300.9
72.5°	223.8	227.6	231.4	231.4	235.2	231.4	231.4	231.4
75°	162.0	169.8	169.8	169.8	169.8	173.6	173.6	173.6
77.5°	115.8	119.6	119.6	123.4	123.4	123.4	123.4	127.2
80°	81.0	81.0	84.9	84.9	88.8	88.8	88.8	88.8
82.5°	54.0	57.9	57.9	57.9	57.9	57.9	57.9	57.9
85°	30.9	34.8	34.8	34.8	34.8	38.6	38.6	38.6
87.5°	19.2	19.2	19.2	19.2	19.2	19.2	15.4	15.4
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)