

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: P252424

Luminaire Tested: **LE\_6B60D010R EC6B60709050 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60709050 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5882.5 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

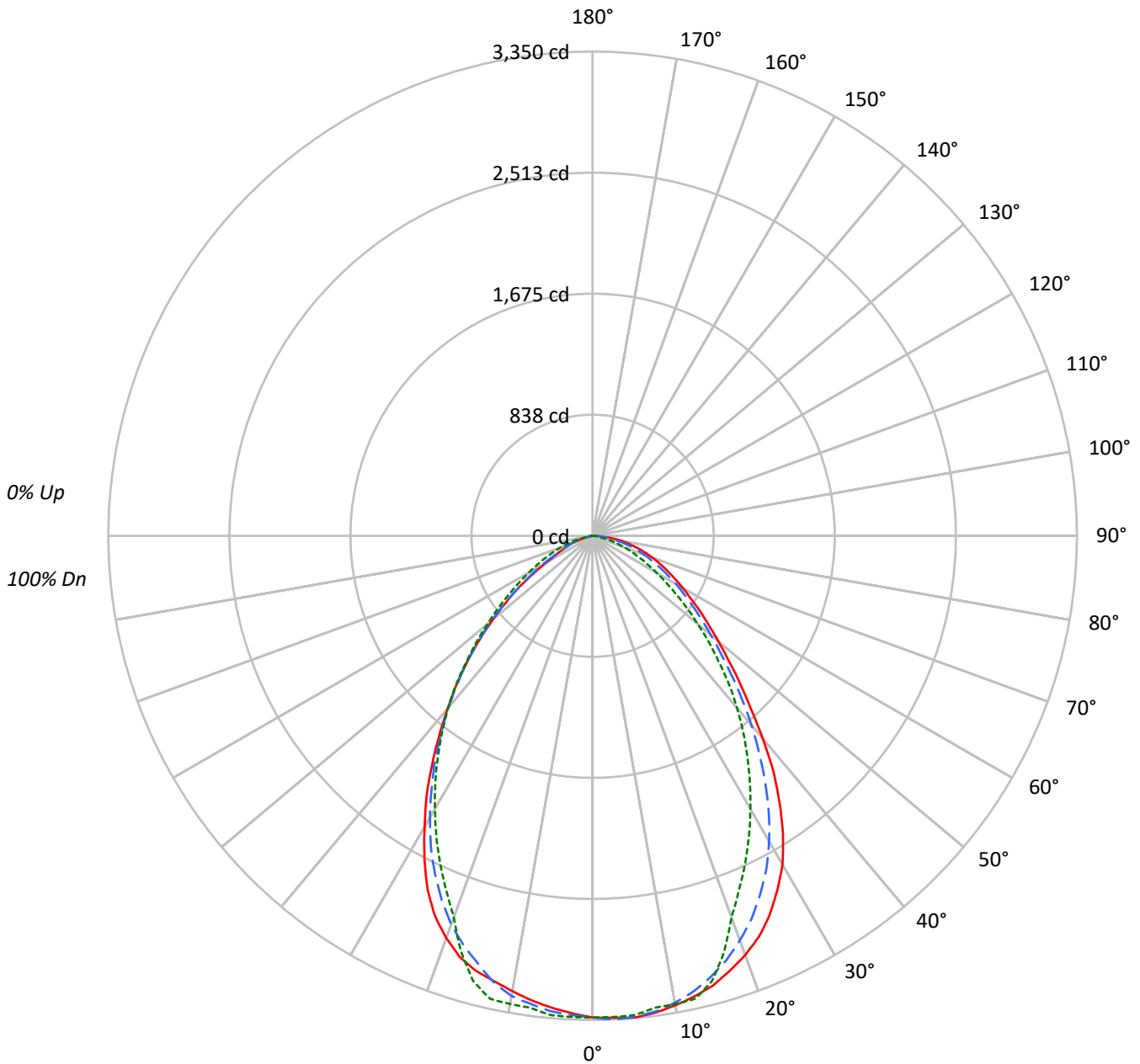
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	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	40	35	45	39	35	44	39	35	33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	217454	217454	217454
5°	219129	218003	214597
10°	218516	217940	211918
15°	217519	215473	210502
20°	214281	195036	205561
25°	208462	179790	194439
30°	197938	164347	175112
35°	179613	148584	154103
40°	155938	132347	132722
45°	132999	113817	112618
50°	115107	96219	90941
55°	102915	80257	70407
60°	93751	66650	47443
65°	87529	54802	35413
70°	83396	44598	29738
75°	78545	31635	9831
80°	74803	16230	3231
85°	61531	9731	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.7	5.4
10°-20°	880.3	15.0
20°-30°	1215.1	20.7
30°-40°	1236.5	21.0
40°-50°	993.7	16.9
50°-60°	660.8	11.2
60°-70°	376.5	6.4
70°-80°	169.1	2.9
80°-90°	35.6	0.6
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°	2410.2	41.0
0°-40°	3646.7	62.0
0°-60°	5301.2	90.1
0°-90°	5882.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5882.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3333	3333	3333	3333	3333	
5°	3346	3342	3329	3303	3277	318
15°	3220	3160	3190	3065	3117	906
25°	2896	2740	2498	2580	2701	1327
35°	2255	2082	1866	1900	1935	1402
45°	1442	1355	1234	1221	1221	1118
55°	905	844	706	628	619	813
65°	567	506	355	229	229	565
75°	312	260	126	52	39	333
85°	82	56	13	4	0	98
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°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3337.4	3354.8	3350.4	3346.0	3350.4	3346.0	3337.4	3337.4	3328.8	3328.8	3350.4
5°	3346.0	3354.8	3350.4	3346.0	3346.0	3350.4	3333.1	3333.1	3324.4	3320.1	3341.8
7.5°	3328.8	3341.8	3333.1	3333.1	3328.8	3333.1	3315.8	3315.8	3302.8	3298.5	3320.1
10°	3298.5	3315.8	3307.1	3307.1	3307.1	3298.5	3289.8	3285.5	3272.5	3268.1	3281.1
12.5°	3263.9	3276.8	3272.5	3263.9	3263.9	3263.9	3246.5	3242.1	3224.9	3216.2	3229.1
15°	3220.5	3229.1	3224.9	3220.5	3211.9	3211.9	3194.5	3185.9	3168.6	3151.2	3159.9
17.5°	3155.6	3168.6	3159.9	3155.6	3142.6	3142.6	3125.2	3116.6	3090.6	3073.4	3077.6
20°	3086.4	3090.6	3086.4	3077.6	3064.8	3060.4	3043.0	3025.8	3004.1	2982.5	2978.1
22.5°	3004.1	3008.4	2995.5	2986.8	2973.8	2969.5	2947.9	2934.9	2900.2	2874.2	2869.9
25°	2895.9	2900.2	2900.2	2878.6	2869.9	2861.2	2839.6	2818.0	2787.6	2753.0	2740.0
27.5°	2766.0	2779.0	2770.4	2748.8	2731.4	2727.0	2705.4	2688.1	2649.1	2618.9	2601.5
30°	2627.5	2623.1	2618.9	2605.9	2579.9	2575.5	2553.9	2532.2	2502.0	2463.0	2441.4
32.5°	2450.0	2450.0	2445.8	2432.8	2406.8	2398.1	2380.8	2354.8	2320.1	2289.9	2268.2
35°	2255.2	2259.6	2255.2	2229.2	2212.0	2203.2	2194.6	2164.4	2134.0	2099.4	2082.1
37.5°	2051.8	2038.8	2043.1	2021.5	1999.9	2008.5	1982.5	1969.5	1934.9	1909.0	1891.6
40°	1831.0	1839.6	1822.4	1813.8	1800.8	1787.8	1787.8	1766.1	1748.8	1718.5	1709.9
42.5°	1614.6	1627.6	1623.2	1614.6	1597.2	1601.6	1580.0	1571.2	1549.6	1536.6	1523.8
45°	1441.5	1441.5	1441.5	1432.8	1428.5	1419.8	1406.9	1393.9	1380.9	1363.5	1354.9
47.5°	1272.6	1272.6	1277.0	1268.2	1259.6	1255.4	1246.6	1246.6	1225.0	1207.8	1199.0
50°	1134.1	1134.1	1134.1	1125.5	1116.8	1116.8	1108.1	1099.5	1086.5	1073.5	1064.9
52.5°	1008.6	1008.6	1008.6	999.9	995.6	991.2	986.9	982.6	965.2	956.6	948.0
55°	904.8	900.4	900.4	896.0	887.4	887.4	883.0	874.4	861.4	848.4	844.1
57.5°	800.8	805.1	800.8	800.8	792.1	792.1	783.5	779.1	766.1	757.5	748.9
60°	718.5	718.5	718.5	714.2	705.6	709.9	701.2	696.9	683.9	671.0	662.2
62.5°	636.4	640.6	640.6	636.4	627.6	627.6	623.4	619.0	606.0	593.0	580.0
65°	567.0	567.0	567.0	562.8	558.4	558.4	554.1	549.8	536.8	519.5	506.5
67.5°	502.1	497.8	497.8	497.8	493.5	489.1	484.8	480.5	467.5	454.5	437.2
70°	437.2	437.2	437.2	432.9	424.2	428.5	424.2	419.9	406.9	393.9	380.9
72.5°	376.6	376.6	372.2	367.9	367.9	363.6	363.6	359.2	346.2	329.0	316.0
75°	311.6	311.6	311.6	311.6	303.0	307.4	298.6	294.4	285.8	272.8	259.8
77.5°	255.4	255.4	255.4	251.1	246.8	246.8	242.4	238.1	225.1	216.4	199.1
80°	199.1	199.1	199.1	199.1	194.8	190.5	186.1	181.8	173.1	160.1	147.1
82.5°	147.1	147.1	142.9	142.9	142.9	138.5	134.2	129.9	121.2	112.5	103.9
85°	82.2	86.6	86.6	77.9	82.2	77.9	77.9	69.2	69.2	60.6	56.2
87.5°	30.2	26.0	26.0	26.0	26.0	26.0	26.0	21.6	21.6	21.6	17.4
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°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3333.1	3328.8	3346.0	3346.0	3320.1	3333.1	3337.4	3328.8	3328.8	3333.1	3320.1
5°	3324.4	3315.8	3333.1	3337.4	3311.4	3324.4	3328.8	3320.1	3324.4	3328.8	3311.4
7.5°	3294.1	3294.1	3307.1	3311.4	3285.5	3298.5	3298.5	3289.8	3294.1	3294.1	3281.1
10°	3263.9	3250.9	3263.9	3263.9	3242.1	3246.5	3255.1	3250.9	3268.1	3289.8	3289.8
12.5°	3207.5	3194.5	3216.2	3216.2	3203.2	3220.5	3242.1	3255.1	3272.5	3281.1	3255.1
15°	3138.2	3142.6	3181.6	3211.9	3198.9	3224.9	3246.5	3237.9	3216.2	3190.2	3151.2
17.5°	3047.4	3034.4	3069.0	3086.4	3069.0	3077.6	3095.0	3077.6	3043.0	3021.4	2969.5
20°	2943.5	2908.9	2908.9	2900.2	2869.9	2869.9	2865.6	2835.2	2822.2	2809.2	2787.6
22.5°	2826.6	2787.6	2774.6	2748.8	2722.8	2718.4	2705.4	2675.1	2657.8	2649.1	2623.1
25°	2692.4	2657.8	2636.1	2610.1	2571.2	2562.6	2549.6	2519.2	2510.6	2497.6	2476.0
27.5°	2553.9	2510.6	2480.4	2454.4	2419.8	2415.4	2389.4	2367.8	2350.5	2341.8	2324.5
30°	2393.8	2346.1	2324.5	2289.9	2263.9	2255.2	2233.6	2203.2	2190.2	2181.6	2168.6
32.5°	2216.2	2177.4	2155.6	2125.4	2090.8	2095.1	2069.1	2043.1	2034.5	2025.9	2012.9
35°	2043.1	2004.1	1978.2	1952.2	1930.6	1921.9	1904.6	1883.0	1870.0	1865.6	1857.0
37.5°	1852.6	1822.4	1800.8	1774.8	1757.5	1748.8	1740.1	1718.5	1709.9	1709.9	1692.5
40°	1666.5	1640.6	1623.2	1610.2	1588.6	1584.2	1575.6	1562.6	1558.4	1554.0	1541.0
42.5°	1497.8	1463.1	1450.1	1441.5	1428.5	1419.8	1415.5	1406.9	1402.5	1398.1	1385.1
45°	1337.5	1307.2	1294.2	1285.6	1272.6	1268.2	1264.0	1251.0	1242.4	1233.6	1229.4
47.5°	1181.8	1160.1	1155.8	1134.1	1125.5	1116.8	1108.1	1099.5	1095.1	1090.9	1073.5
50°	1047.5	1034.5	1012.9	999.9	991.2	986.9	969.6	956.6	952.2	948.0	935.0
52.5°	926.4	909.0	896.0	874.4	870.0	861.4	852.8	835.4	826.8	822.5	809.5
55°	818.1	805.1	787.9	770.5	757.5	753.2	740.2	722.9	714.2	705.6	696.9
57.5°	727.2	705.6	688.2	671.0	662.2	649.2	636.4	627.6	614.6	601.6	588.8
60°	640.6	623.4	601.6	584.4	575.8	567.0	549.8	536.8	523.8	510.8	497.8
62.5°	558.4	541.1	519.5	502.1	493.5	484.8	467.5	454.5	441.5	428.5	411.2
65°	484.8	467.5	450.1	432.9	424.2	415.5	398.2	380.9	367.9	355.0	337.6
67.5°	424.2	402.6	385.2	367.9	359.2	350.6	333.2	320.4	303.0	290.0	272.8
70°	359.2	342.0	329.0	311.6	303.0	294.4	277.0	259.8	246.8	233.8	216.4
72.5°	303.0	281.4	268.4	251.1	242.4	238.1	220.8	207.8	194.8	177.5	164.5
75°	242.4	225.1	207.8	194.8	186.1	181.8	164.5	151.5	138.5	125.5	112.5
77.5°	186.1	173.1	155.9	142.9	134.2	129.9	112.5	99.5	86.6	77.9	64.9
80°	138.5	121.2	112.5	99.5	95.2	86.6	77.9	64.9	56.2	43.2	34.6
82.5°	95.2	82.2	73.6	64.9	60.6	56.2	47.6	39.0	30.2	26.0	21.6
85°	52.0	43.2	39.0	34.6	30.2	30.2	26.0	21.6	17.4	13.0	8.6
87.5°	17.4	13.0	13.0	13.0	13.0	8.6	8.6	8.6	4.4	4.4	4.4
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°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3328.8	3328.8	3328.8	3324.4	3324.4	3324.4	3320.1	3337.4	3320.1	3315.8	3328.8
5°	3324.4	3315.8	3315.8	3315.8	3315.8	3311.4	3307.1	3315.8	3302.8	3298.5	3298.5
7.5°	3298.5	3294.1	3294.1	3289.8	3285.5	3281.1	3276.8	3281.1	3268.1	3263.9	3263.9
10°	3302.8	3294.1	3294.1	3281.1	3272.5	3259.5	3246.5	3250.9	3233.5	3220.5	3220.5
12.5°	3250.9	3229.1	3216.2	3203.2	3194.5	3190.2	3172.9	3181.6	3164.2	3159.9	3159.9
15°	3134.0	3108.0	3086.4	3077.6	3077.6	3069.0	3056.0	3073.4	3064.8	3069.0	3090.6
17.5°	2952.1	2939.1	2926.1	2921.9	2926.1	2934.9	2943.5	2969.5	2969.5	2982.5	3004.1
20°	2792.0	2783.4	2792.0	2792.0	2796.4	2813.6	2831.0	2852.6	2861.2	2874.2	2904.5
22.5°	2636.1	2636.1	2644.9	2657.8	2653.5	2683.8	2688.1	2727.0	2727.0	2753.0	2779.0
25°	2484.6	2484.6	2493.2	2497.6	2506.2	2523.6	2540.9	2571.2	2579.9	2605.9	2627.5
27.5°	2337.5	2333.1	2333.1	2337.5	2346.1	2367.8	2376.5	2411.1	2424.0	2441.4	2463.0
30°	2173.0	2168.6	2177.4	2186.0	2181.6	2203.2	2216.2	2242.2	2250.9	2268.2	2285.5
32.5°	2017.1	2017.1	2017.1	2025.9	2025.9	2043.1	2043.1	2073.4	2073.4	2086.4	2103.8
35°	1857.0	1857.0	1861.4	1865.6	1870.0	1874.4	1878.6	1896.0	1900.2	1904.6	1913.2
37.5°	1705.5	1701.1	1705.5	1705.5	1696.9	1714.1	1714.1	1731.5	1718.5	1731.5	1735.8
40°	1549.6	1549.6	1545.4	1545.4	1545.4	1554.0	1545.4	1558.4	1549.6	1558.4	1554.0
42.5°	1389.5	1389.5	1380.9	1389.5	1385.1	1385.1	1385.1	1393.9	1380.9	1389.5	1393.9
45°	1229.4	1225.0	1225.0	1220.6	1220.6	1220.6	1225.0	1225.0	1220.6	1229.4	1229.4
47.5°	1073.5	1069.1	1069.1	1069.1	1069.1	1073.5	1060.5	1069.1	1060.5	1060.5	1060.5
50°	939.4	935.0	930.6	926.4	922.0	922.0	917.6	917.6	909.0	904.8	900.4
52.5°	809.5	805.1	796.5	796.5	792.1	787.9	774.9	774.9	761.9	757.5	757.5
55°	692.6	679.6	675.2	666.6	666.6	658.0	649.2	640.6	627.6	619.0	619.0
57.5°	584.4	571.4	562.8	558.4	554.1	545.4	528.1	523.8	506.5	502.1	497.8
60°	489.1	476.1	463.1	454.5	450.1	437.2	419.9	411.2	402.6	389.6	376.6
62.5°	398.2	385.2	367.9	363.6	355.0	342.0	329.0	316.0	307.4	294.4	285.8
65°	320.4	307.4	294.4	285.8	277.0	264.0	251.1	238.1	229.4	225.1	220.8
67.5°	259.8	242.4	229.4	225.1	216.4	207.8	194.8	190.5	181.8	181.8	181.8
70°	203.5	190.5	177.5	173.1	168.9	160.1	151.5	151.5	151.5	151.5	151.5
72.5°	151.5	142.9	129.9	125.5	121.2	116.9	108.2	112.5	108.2	108.2	108.2
75°	95.2	86.6	77.9	73.6	69.2	64.9	60.6	56.2	52.0	47.6	47.6
77.5°	52.0	43.2	39.0	34.6	34.6	30.2	26.0	26.0	21.6	21.6	21.6
80°	30.2	26.0	21.6	17.4	17.4	13.0	13.0	13.0	13.0	8.6	8.6
82.5°	17.4	13.0	8.6	8.6	8.6	8.6	4.4	4.4	4.4	4.4	4.4
85°	8.6	8.6	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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: P252424

CATALOG NUMBER: LE\_6B60D010R EC6B60709050 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3307.1	3320.1	3307.1	3320.1	3320.1	3320.1	3320.1	3307.1
5°	3285.5	3294.1	3281.1	3289.8	3294.1	3289.8	3289.8	3276.8
7.5°	3246.5	3255.1	3242.1	3255.1	3259.5	3255.1	3250.9	3242.1
10°	3207.5	3211.9	3198.9	3207.5	3216.2	3216.2	3211.9	3198.9
12.5°	3147.0	3159.9	3147.0	3155.6	3164.2	3168.6	3168.6	3155.6
15°	3077.6	3099.4	3090.6	3103.6	3116.6	3121.0	3121.0	3116.6
17.5°	3008.4	3030.1	3017.1	3038.8	3051.8	3060.4	3064.8	3056.0
20°	2908.9	2934.9	2926.1	2943.5	2960.8	2973.8	2973.8	2960.8
22.5°	2779.0	2813.6	2809.2	2822.2	2843.9	2848.2	2856.9	2848.2
25°	2636.1	2662.1	2657.8	2670.8	2696.8	2696.8	2701.1	2701.1
27.5°	2471.6	2497.6	2493.2	2502.0	2519.2	2523.6	2528.0	2519.2
30°	2294.2	2307.1	2307.1	2320.1	2333.1	2337.5	2337.5	2324.5
32.5°	2099.4	2116.8	2125.4	2121.0	2134.0	2142.8	2138.4	2138.4
35°	1921.9	1926.2	1930.6	1934.9	1939.2	1947.9	1939.2	1934.9
37.5°	1731.5	1744.5	1735.8	1744.5	1753.1	1748.8	1744.5	1744.5
40°	1558.4	1562.6	1554.0	1562.6	1567.0	1567.0	1567.0	1558.4
42.5°	1385.1	1393.9	1385.1	1393.9	1393.9	1393.9	1393.9	1389.5
45°	1212.0	1220.6	1220.6	1225.0	1225.0	1220.6	1220.6	1220.6
47.5°	1051.9	1060.5	1051.9	1060.5	1064.9	1056.2	1056.2	1056.2
50°	900.4	896.0	896.0	900.4	900.4	900.4	900.4	896.0
52.5°	744.5	748.9	748.9	748.9	753.2	748.9	753.2	753.2
55°	610.4	610.4	610.4	614.6	610.4	610.4	614.6	619.0
57.5°	489.1	484.8	480.5	480.5	484.8	480.5	480.5	480.5
60°	376.6	372.2	367.9	367.9	367.9	367.9	367.9	363.6
62.5°	281.4	281.4	281.4	285.8	285.8	285.8	285.8	290.0
65°	225.1	225.1	225.1	225.1	225.1	225.1	225.1	229.4
67.5°	181.8	181.8	181.8	186.1	186.1	186.1	186.1	186.1
70°	151.5	151.5	155.9	151.5	155.9	155.9	155.9	155.9
72.5°	103.9	103.9	103.9	103.9	103.9	99.5	103.9	99.5
75°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	39.0
77.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	4.4	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)