

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: P252421

Luminaire Tested: **LE\_6B60D010R EC6B60709030 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252421  
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 EC6B60709030 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5765.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

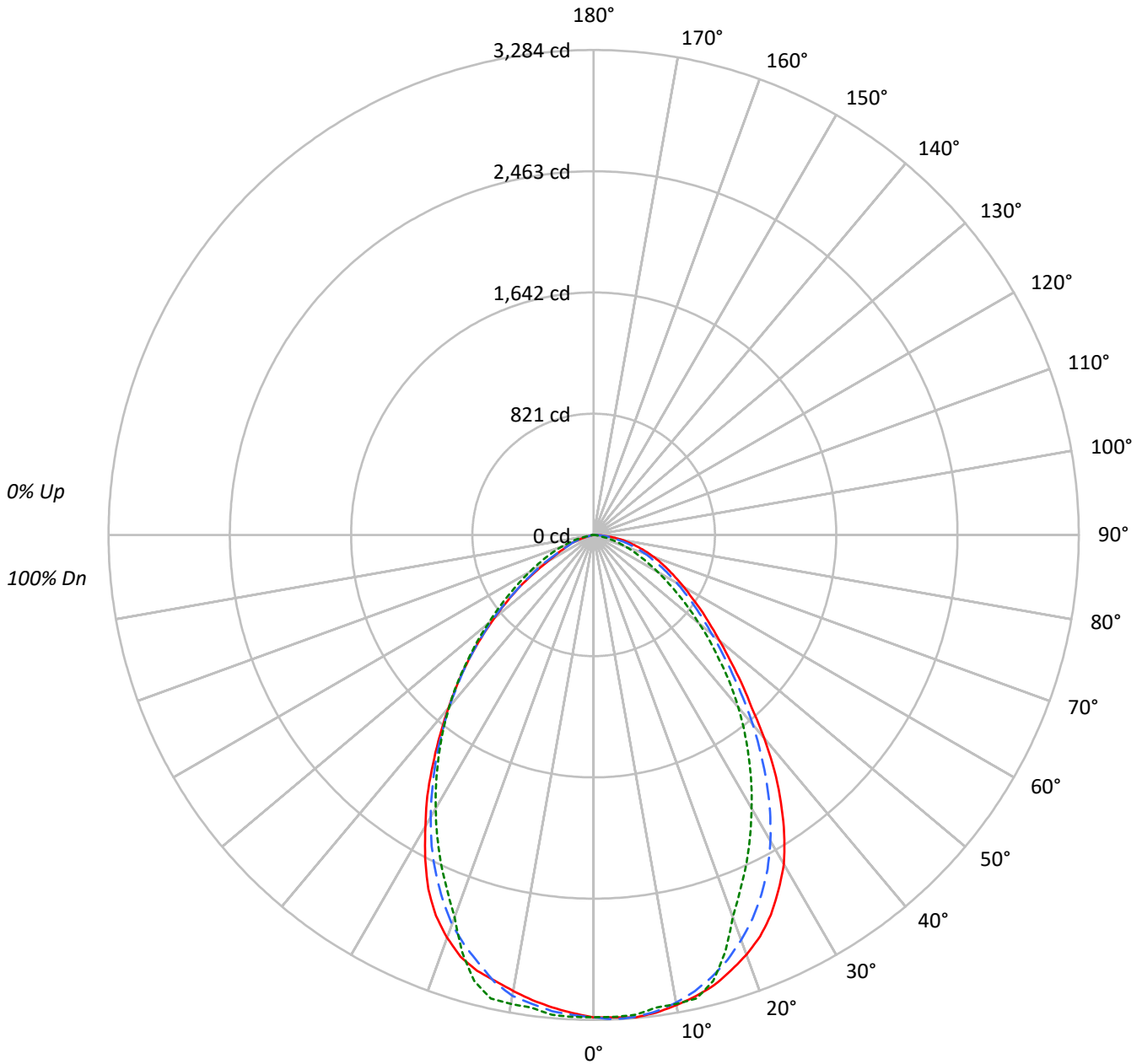
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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°	213109	213109	213109
5°	214754	213641	210314
10°	214144	213587	207685
15°	213176	211170	206300
20°	210005	191148	201451
25°	204294	176205	190552
30°	193983	161070	171617
35°	176029	145621	151021
40°	152830	129707	130065
45°	130332	111547	110366
50°	112813	94290	89124
55°	100845	78654	68997
60°	91885	65319	46504
65°	85800	53706	34718
70°	81737	43701	29147
75°	77008	31005	9604
80°	73300	15930	3193
85°	60333	9581	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	5.4
10°-20°	862.7	15.0
20°-30°	1190.9	20.7
30°-40°	1211.8	21.0
40°-50°	973.9	16.9
50°-60°	647.6	11.2
60°-70°	369.0	6.4
70°-80°	165.8	2.9
80°-90°	34.9	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°	2362.0	41.0
0°-40°	3573.9	62.0
0°-60°	5195.3	90.1
0°-90°	5765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5765.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3266	3266	3266	3266	3266	
5°	3279	3275	3262	3237	3211	311
15°	3156	3097	3126	3004	3054	888
25°	2838	2685	2448	2528	2647	1301
35°	2210	2040	1828	1862	1896	1374
45°	1413	1328	1209	1196	1196	1095
55°	887	827	692	615	607	797
65°	556	496	348	225	225	554
75°	306	254	123	51	38	326
85°	81	55	13	4	0	96
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°	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5
2.5°	3270.8	3287.8	3283.5	3279.2	3283.5	3279.2	3270.8	3270.8	3262.2	3262.2	3283.5
5°	3279.2	3287.8	3283.5	3279.2	3279.2	3283.5	3266.5	3266.5	3258.0	3253.8	3275.0
7.5°	3262.2	3275.0	3266.5	3266.5	3262.2	3266.5	3249.5	3249.5	3236.8	3232.5	3253.8
10°	3232.5	3249.5	3241.0	3241.0	3241.0	3232.5	3224.1	3219.9	3207.1	3202.9	3215.6
12.5°	3198.6	3211.4	3207.1	3198.6	3198.6	3198.6	3181.6	3177.4	3160.5	3152.0	3164.6
15°	3156.2	3164.6	3160.5	3156.2	3147.8	3147.8	3130.8	3122.2	3105.2	3088.4	3096.8
17.5°	3092.6	3105.2	3096.8	3092.6	3079.9	3079.9	3062.9	3054.4	3028.9	3012.0	3016.2
20°	3024.8	3028.9	3024.8	3016.2	3003.5	2999.2	2982.2	2965.2	2944.1	2922.9	2918.6
22.5°	2944.1	2948.4	2935.6	2927.1	2914.4	2910.1	2889.0	2876.2	2842.2	2816.9	2812.6
25°	2838.0	2842.2	2842.2	2821.1	2812.6	2804.1	2782.9	2761.6	2732.0	2698.0	2685.4
27.5°	2710.8	2723.5	2715.0	2693.8	2676.9	2672.6	2651.4	2634.4	2596.2	2566.5	2549.6
30°	2575.0	2570.8	2566.5	2553.8	2528.4	2524.1	2502.9	2481.8	2452.0	2413.9	2392.6
32.5°	2401.1	2401.1	2396.9	2384.1	2358.6	2350.1	2333.2	2307.8	2273.9	2244.1	2222.9
35°	2210.2	2214.4	2210.2	2184.8	2167.8	2159.2	2150.8	2121.1	2091.4	2057.5	2040.5
37.5°	2010.8	1998.1	2002.4	1981.1	1959.9	1968.4	1942.9	1930.2	1896.2	1870.8	1853.9
40°	1794.5	1802.9	1786.0	1777.5	1764.8	1752.0	1752.0	1730.9	1713.9	1684.1	1675.6
42.5°	1582.4	1595.1	1590.9	1582.4	1565.4	1569.6	1548.4	1539.9	1518.8	1506.0	1493.2
45°	1412.6	1412.6	1412.6	1404.1	1399.9	1391.5	1378.8	1366.0	1353.2	1336.2	1327.8
47.5°	1247.2	1247.2	1251.5	1243.0	1234.5	1230.2	1221.8	1221.8	1200.5	1183.6	1175.1
50°	1111.5	1111.5	1111.5	1103.0	1094.5	1094.5	1086.0	1077.5	1064.8	1052.1	1043.6
52.5°	988.4	988.4	988.4	980.0	975.8	971.5	967.2	963.0	946.0	937.5	929.0
55°	886.6	882.4	882.4	878.1	869.6	869.6	865.4	856.9	844.2	831.5	827.2
57.5°	784.8	789.0	784.8	784.8	776.4	776.4	767.9	763.6	750.9	742.4	733.9
60°	704.2	704.2	704.2	700.0	691.5	695.8	687.2	683.0	670.2	657.5	649.0
62.5°	623.6	627.9	627.9	623.6	615.1	615.1	610.9	606.6	593.9	581.1	568.5
65°	555.8	555.8	555.8	551.5	547.2	547.2	543.0	538.8	526.0	509.1	496.4
67.5°	492.1	487.9	487.9	487.9	483.6	479.4	475.1	470.9	458.1	445.4	428.5
70°	428.5	428.5	428.5	424.2	415.8	420.0	415.8	411.5	398.8	386.0	373.4
72.5°	369.1	369.1	364.9	360.6	360.6	356.4	356.4	352.1	339.4	322.4	309.6
75°	305.5	305.5	305.5	305.5	297.0	301.2	292.8	288.5	280.0	267.2	254.5
77.5°	250.2	250.2	250.2	246.0	241.8	241.8	237.6	233.4	220.6	212.1	195.1
80°	195.1	195.1	195.1	195.1	190.9	186.6	182.4	178.1	169.8	157.0	144.2
82.5°	144.2	144.2	140.0	140.0	140.0	135.8	131.5	127.2	118.8	110.2	101.9
85°	80.6	84.9	84.9	76.4	80.6	76.4	76.4	67.9	67.9	59.4	55.1
87.5°	29.8	25.5	25.5	25.5	25.5	25.5	25.5	21.2	21.2	21.2	17.0
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°	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5
2.5°	3266.5	3262.2	3279.2	3279.2	3253.8	3266.5	3270.8	3262.2	3262.2	3266.5	3253.8
5°	3258.0	3249.5	3266.5	3270.8	3245.2	3258.0	3262.2	3253.8	3258.0	3262.2	3245.2
7.5°	3228.4	3228.4	3241.0	3245.2	3219.9	3232.5	3232.5	3224.1	3228.4	3228.4	3215.6
10°	3198.6	3185.9	3198.6	3198.6	3177.4	3181.6	3190.1	3185.9	3202.9	3224.1	3224.1
12.5°	3143.5	3130.8	3152.0	3152.0	3139.2	3156.2	3177.4	3190.1	3207.1	3215.6	3190.1
15°	3075.6	3079.9	3118.0	3147.8	3135.0	3160.5	3181.6	3173.1	3152.0	3126.5	3088.4
17.5°	2986.5	2973.8	3007.8	3024.8	3007.8	3016.2	3033.1	3016.2	2982.2	2961.0	2910.1
20°	2884.8	2850.8	2850.8	2842.2	2812.6	2812.6	2808.4	2778.6	2765.9	2753.2	2732.0
22.5°	2770.1	2732.0	2719.2	2693.8	2668.4	2664.1	2651.4	2621.6	2604.8	2596.2	2570.8
25°	2638.6	2604.8	2583.5	2558.0	2519.9	2511.4	2498.6	2469.0	2460.5	2447.8	2426.5
27.5°	2502.9	2460.5	2430.8	2405.4	2371.4	2367.1	2341.8	2320.5	2303.5	2295.0	2278.1
30°	2346.0	2299.2	2278.1	2244.1	2218.6	2210.2	2189.0	2159.2	2146.5	2138.1	2125.4
32.5°	2172.0	2133.9	2112.6	2082.9	2049.0	2053.2	2027.8	2002.4	1993.9	1985.4	1972.6
35°	2002.4	1964.1	1938.6	1913.2	1892.0	1883.5	1866.6	1845.4	1832.6	1828.4	1819.9
37.5°	1815.6	1786.0	1764.8	1739.2	1722.4	1713.9	1705.4	1684.1	1675.6	1675.6	1658.8
40°	1633.2	1607.8	1590.9	1578.1	1556.9	1552.6	1544.1	1531.4	1527.2	1523.0	1510.2
42.5°	1467.8	1433.9	1421.1	1412.6	1399.9	1391.5	1387.2	1378.8	1374.5	1370.2	1357.5
45°	1310.9	1281.1	1268.4	1259.9	1247.2	1243.0	1238.8	1226.0	1217.5	1209.0	1204.8
47.5°	1158.1	1136.9	1132.6	1111.5	1103.0	1094.5	1086.0	1077.5	1073.2	1069.0	1052.1
50°	1026.6	1013.9	992.6	980.0	971.5	967.2	950.2	937.5	933.2	929.0	916.4
52.5°	907.9	890.9	878.1	856.9	852.6	844.2	835.8	818.8	810.2	806.0	793.2
55°	801.8	789.0	772.1	755.1	742.4	738.1	725.4	708.5	700.0	691.5	683.0
57.5°	712.8	691.5	674.5	657.5	649.0	636.4	623.6	615.1	602.4	589.6	577.0
60°	627.9	610.9	589.6	572.8	564.2	555.8	538.8	526.0	513.2	500.6	487.9
62.5°	547.2	530.2	509.1	492.1	483.6	475.1	458.1	445.4	432.8	420.0	403.0
65°	475.1	458.1	441.2	424.2	415.8	407.2	390.2	373.4	360.6	347.9	330.9
67.5°	415.8	394.5	377.5	360.6	352.1	343.6	326.6	313.9	297.0	284.2	267.2
70°	352.1	335.1	322.4	305.5	297.0	288.5	271.5	254.5	241.8	229.1	212.1
72.5°	297.0	275.8	263.0	246.0	237.6	233.4	216.4	203.6	190.9	173.9	161.2
75°	237.6	220.6	203.6	190.9	182.4	178.1	161.2	148.5	135.8	123.0	110.2
77.5°	182.4	169.8	152.8	140.0	131.5	127.2	110.2	97.6	84.9	76.4	63.6
80°	135.8	118.8	110.2	97.6	93.4	84.9	76.4	63.6	55.1	42.4	34.0
82.5°	93.4	80.6	72.1	63.6	59.4	55.1	46.6	38.1	29.8	25.5	21.2
85°	50.9	42.4	38.1	34.0	29.8	29.8	25.5	21.2	17.0	12.8	8.5
87.5°	17.0	12.8	12.8	12.8	12.8	8.5	8.5	8.5	4.2	4.2	4.2
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5
2.5°	3262.2	3262.2	3262.2	3258.0	3258.0	3258.0	3253.8	3270.8	3253.8	3249.5	3262.2
5°	3258.0	3249.5	3249.5	3249.5	3249.5	3245.2	3241.0	3249.5	3236.8	3232.5	3232.5
7.5°	3232.5	3228.4	3228.4	3224.1	3219.9	3215.6	3211.4	3215.6	3202.9	3198.6	3198.6
10°	3236.8	3228.4	3228.4	3215.6	3207.1	3194.4	3181.6	3185.9	3168.9	3156.2	3156.2
12.5°	3185.9	3164.6	3152.0	3139.2	3130.8	3126.5	3109.5	3118.0	3101.0	3096.8	3096.8
15°	3071.4	3045.9	3024.8	3016.2	3016.2	3007.8	2995.0	3012.0	3003.5	3007.8	3028.9
17.5°	2893.1	2880.5	2867.8	2863.5	2867.8	2876.2	2884.8	2910.1	2910.1	2922.9	2944.1
20°	2736.2	2727.8	2736.2	2736.2	2740.5	2757.4	2774.4	2795.6	2804.1	2816.9	2846.5
22.5°	2583.5	2583.5	2592.0	2604.8	2600.5	2630.1	2634.4	2672.6	2672.6	2698.0	2723.5
25°	2435.0	2435.0	2443.5	2447.8	2456.2	2473.2	2490.1	2519.9	2528.4	2553.8	2575.0
27.5°	2290.8	2286.5	2286.5	2290.8	2299.2	2320.5	2329.0	2362.9	2375.6	2392.6	2413.9
30°	2129.6	2125.4	2133.9	2142.4	2138.1	2159.2	2172.0	2197.5	2206.0	2222.9	2239.9
32.5°	1976.9	1976.9	1976.9	1985.4	1985.4	2002.4	2002.4	2032.0	2032.0	2044.8	2061.8
35°	1819.9	1819.9	1824.1	1828.4	1832.6	1836.9	1841.1	1858.1	1862.4	1866.6	1875.0
37.5°	1671.4	1667.1	1671.4	1671.4	1663.0	1679.9	1679.9	1696.9	1684.1	1696.9	1701.1
40°	1518.8	1518.8	1514.5	1514.5	1514.5	1523.0	1514.5	1527.2	1518.8	1527.2	1523.0
42.5°	1361.8	1361.8	1353.2	1361.8	1357.5	1357.5	1357.5	1366.0	1353.2	1361.8	1366.0
45°	1204.8	1200.5	1200.5	1196.2	1196.2	1196.2	1200.5	1200.5	1196.2	1204.8	1204.8
47.5°	1052.1	1047.9	1047.9	1047.9	1047.9	1052.1	1039.4	1047.9	1039.4	1039.4	1039.4
50°	920.5	916.4	912.1	907.9	903.6	903.6	899.4	899.4	890.9	886.6	882.4
52.5°	793.2	789.0	780.6	780.6	776.4	772.1	759.4	759.4	746.6	742.4	742.4
55°	678.8	666.0	661.8	653.2	653.2	644.9	636.4	627.9	615.1	606.6	606.6
57.5°	572.8	560.0	551.5	547.2	543.0	534.5	517.5	513.2	496.4	492.1	487.9
60°	479.4	466.6	453.9	445.4	441.2	428.5	411.5	403.0	394.5	381.8	369.1
62.5°	390.2	377.5	360.6	356.4	347.9	335.1	322.4	309.6	301.2	288.5	280.0
65°	313.9	301.2	288.5	280.0	271.5	258.8	246.0	233.4	224.9	220.6	216.4
67.5°	254.5	237.6	224.9	220.6	212.1	203.6	190.9	186.6	178.1	178.1	178.1
70°	199.4	186.6	173.9	169.8	165.5	157.0	148.5	148.5	148.5	148.5	148.5
72.5°	148.5	140.0	127.2	123.0	118.8	114.5	106.0	110.2	106.0	106.0	106.0
75°	93.4	84.9	76.4	72.1	67.9	63.6	59.4	55.1	50.9	46.6	46.6
77.5°	50.9	42.4	38.1	34.0	34.0	29.8	25.5	25.5	21.2	21.2	21.2
80°	29.8	25.5	21.2	17.0	17.0	12.8	12.8	12.8	12.8	8.5	8.5
82.5°	17.0	12.8	8.5	8.5	8.5	8.5	4.2	4.2	4.2	4.2	4.2
85°	8.5	8.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P252421

CATALOG NUMBER: LE\_6B60D010R EC6B60709030 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5	3266.5
2.5°	3241.0	3253.8	3241.0	3253.8	3253.8	3253.8	3253.8	3241.0
5°	3219.9	3228.4	3215.6	3224.1	3228.4	3224.1	3224.1	3211.4
7.5°	3181.6	3190.1	3177.4	3190.1	3194.4	3190.1	3185.9	3177.4
10°	3143.5	3147.8	3135.0	3143.5	3152.0	3152.0	3147.8	3135.0
12.5°	3084.1	3096.8	3084.1	3092.6	3101.0	3105.2	3105.2	3092.6
15°	3016.2	3037.4	3028.9	3041.6	3054.4	3058.6	3058.6	3054.4
17.5°	2948.4	2969.5	2956.9	2978.0	2990.8	2999.2	3003.5	2995.0
20°	2850.8	2876.2	2867.8	2884.8	2901.6	2914.4	2914.4	2901.6
22.5°	2723.5	2757.4	2753.2	2765.9	2787.1	2791.4	2799.9	2791.4
25°	2583.5	2609.0	2604.8	2617.5	2642.9	2642.9	2647.1	2647.1
27.5°	2422.2	2447.8	2443.5	2452.0	2469.0	2473.2	2477.5	2469.0
30°	2248.4	2261.1	2261.1	2273.9	2286.5	2290.8	2290.8	2278.1
32.5°	2057.5	2074.5	2082.9	2078.6	2091.4	2099.9	2095.6	2095.6
35°	1883.5	1887.8	1892.0	1896.2	1900.5	1909.0	1900.5	1896.2
37.5°	1696.9	1709.6	1701.1	1709.6	1718.1	1713.9	1709.6	1709.6
40°	1527.2	1531.4	1523.0	1531.4	1535.6	1535.6	1535.6	1527.2
42.5°	1357.5	1366.0	1357.5	1366.0	1366.0	1366.0	1366.0	1361.8
45°	1187.9	1196.2	1196.2	1200.5	1200.5	1196.2	1196.2	1196.2
47.5°	1030.9	1039.4	1030.9	1039.4	1043.6	1035.1	1035.1	1035.1
50°	882.4	878.1	878.1	882.4	882.4	882.4	882.4	878.1
52.5°	729.6	733.9	733.9	733.9	738.1	733.9	738.1	738.1
55°	598.1	598.1	598.1	602.4	598.1	598.1	602.4	606.6
57.5°	479.4	475.1	470.9	470.9	475.1	470.9	470.9	470.9
60°	369.1	364.9	360.6	360.6	360.6	360.6	360.6	356.4
62.5°	275.8	275.8	275.8	280.0	280.0	280.0	280.0	284.2
65°	220.6	220.6	220.6	220.6	220.6	220.6	220.6	224.9
67.5°	178.1	178.1	178.1	182.4	182.4	182.4	182.4	182.4
70°	148.5	148.5	152.8	148.5	152.8	152.8	152.8	152.8
72.5°	101.9	101.9	101.9	101.9	101.9	97.6	101.9	97.6
75°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	38.1
77.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
80°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	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)