

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: P252521

Luminaire Tested: **LE\_6B60D010R EC6B60708040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B60D010R EC6B60708040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6565.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

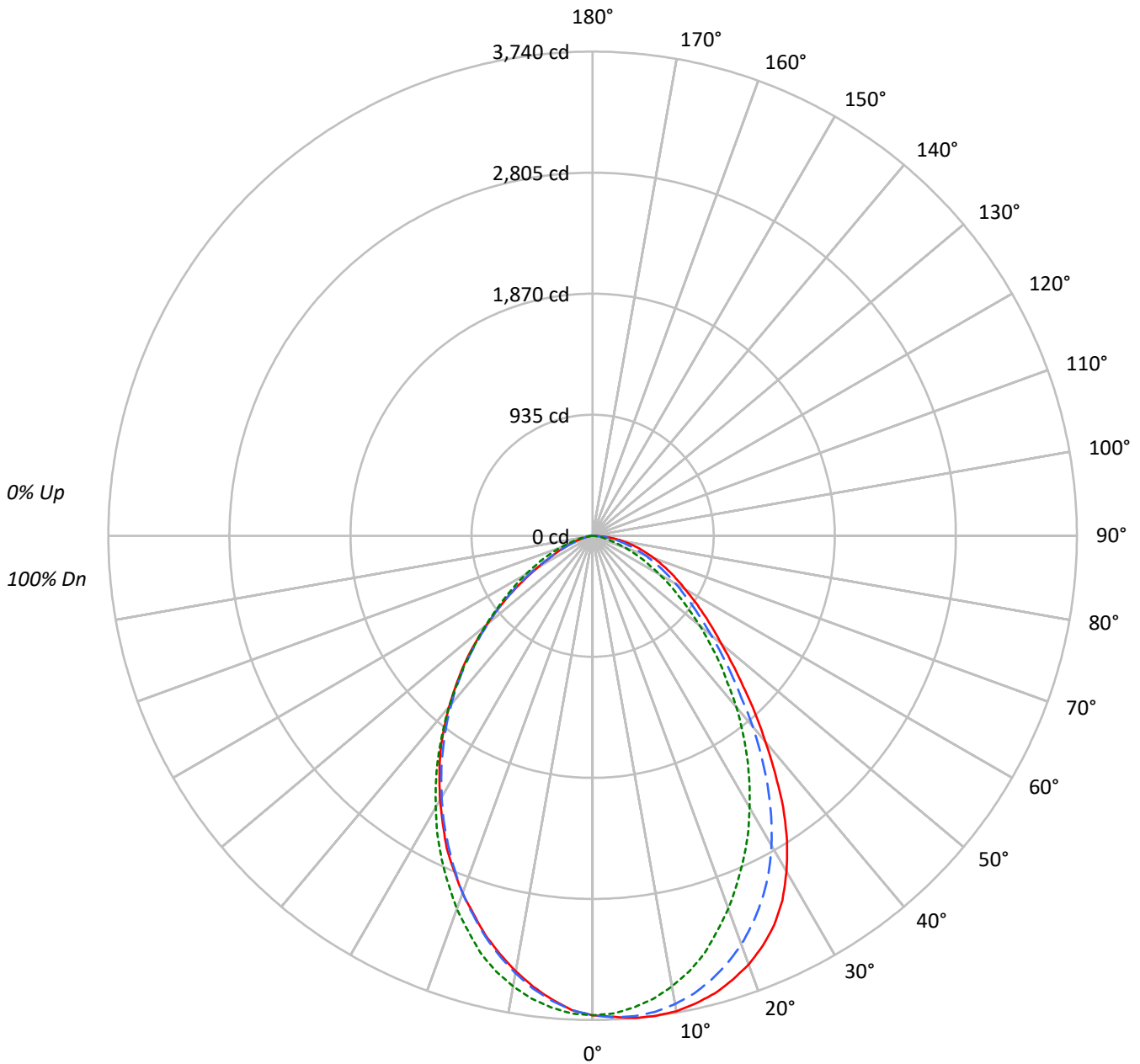
Input Watts (W): 62.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

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

	0°	90°	180°
0°	241625	241625	241625
5°	244906	239523	235475
10°	247062	234111	226273
15°	247028	225482	215756
20°	244635	212851	203916
25°	238839	198470	191804
30°	225533	182518	177478
35°	204438	165508	163462
40°	176548	147200	146757
45°	151396	128146	129087
50°	131560	109636	108073
55°	118191	92451	86582
60°	107386	77871	63753
65°	100836	64312	46852
70°	96157	50053	34335
75°	92056	36298	23342
80°	86976	25135	15442
85°	77026	15420	7635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.4	5.3
10°-20°	948.9	14.5
20°-30°	1317.3	20.1
30°-40°	1364.4	20.8
40°-50°	1121.2	17.1
50°-60°	770.6	11.7
60°-70°	443.0	6.7
70°-80°	203.7	3.1
80°-90°	49.6	0.8
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°	2612.5	39.8
0°-40°	3977.0	60.6
0°-60°	5868.8	89.4
0°-90°	6565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3704	3704	3704	3704	3704	
5°	3740	3724	3657	3606	3596	356
15°	3657	3549	3338	3205	3194	1030
25°	3318	3097	2757	2639	2664	1518
35°	2567	2356	2078	2016	2052	1592
45°	1641	1518	1389	1373	1399	1278
55°	1039	941	813	766	761	935
65°	653	571	417	293	304	650
75°	365	288	144	93	93	386
85°	103	72	21	10	10	115
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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3719.1	3749.9	3729.4	3724.2	3734.5	3734.5	3734.5	3719.1	3729.4	3713.9	3724.2
5°	3739.6	3765.4	3744.8	3734.5	3744.8	3749.9	3734.5	3724.2	3739.6	3719.1	3724.2
7.5°	3739.6	3765.4	3744.8	3739.6	3744.8	3744.8	3739.6	3719.1	3729.4	3708.8	3708.8
10°	3729.4	3749.9	3729.4	3719.1	3724.2	3719.1	3719.1	3693.4	3698.5	3672.8	3672.8
12.5°	3698.5	3724.2	3698.5	3688.2	3688.2	3688.2	3672.8	3652.2	3657.4	3626.5	3621.4
15°	3657.4	3677.9	3652.2	3641.9	3641.9	3636.8	3626.5	3595.6	3595.6	3564.8	3549.4
17.5°	3595.6	3616.1	3595.6	3580.1	3575.0	3564.8	3554.5	3523.6	3513.2	3477.2	3461.9
20°	3523.6	3539.0	3518.5	3503.0	3492.8	3482.5	3461.9	3431.0	3420.8	3384.8	3359.0
22.5°	3431.0	3451.6	3420.8	3405.2	3395.0	3379.6	3359.0	3328.1	3312.8	3266.4	3235.5
25°	3317.9	3328.1	3302.4	3287.0	3266.4	3256.1	3240.6	3199.5	3184.1	3132.6	3096.6
27.5°	3173.8	3184.1	3153.2	3143.0	3117.2	3106.9	3086.4	3050.4	3029.8	2978.4	2942.4
30°	2993.8	3004.0	2983.5	2968.0	2947.5	2926.9	2911.5	2875.5	2844.6	2793.1	2762.2
32.5°	2793.1	2808.6	2788.0	2767.4	2731.4	2736.6	2710.9	2674.9	2649.1	2602.9	2566.9
35°	2566.9	2577.1	2551.4	2546.2	2525.6	2505.1	2479.4	2453.6	2438.2	2386.8	2355.9
37.5°	2314.8	2340.5	2314.8	2294.2	2283.9	2268.5	2253.0	2217.0	2206.8	2175.9	2134.8
40°	2073.0	2088.4	2073.0	2052.4	2037.0	2037.0	2016.4	1995.9	1970.1	1939.2	1923.9
42.5°	1857.0	1846.6	1841.5	1831.2	1810.6	1805.5	1800.4	1774.6	1759.2	1728.4	1702.6
45°	1640.9	1646.0	1635.8	1630.6	1615.2	1604.9	1594.6	1574.0	1568.9	1538.0	1517.5
47.5°	1460.9	1455.8	1445.5	1445.5	1435.1	1424.9	1414.6	1399.1	1394.0	1368.2	1347.8
50°	1296.2	1301.4	1296.2	1291.1	1275.8	1270.5	1260.2	1250.0	1239.8	1214.0	1193.4
52.5°	1162.5	1157.4	1152.2	1152.2	1136.8	1131.6	1121.4	1111.1	1100.8	1075.1	1059.6
55°	1039.1	1039.1	1033.9	1028.8	1013.4	1008.2	1003.1	992.8	977.4	956.8	941.4
57.5°	925.9	925.9	920.8	915.6	905.4	905.4	895.0	884.8	874.5	853.9	833.4
60°	823.0	828.1	823.0	817.9	807.6	807.6	802.5	787.0	781.9	756.1	740.8
62.5°	735.6	735.6	735.6	730.5	725.2	715.0	715.0	699.6	689.2	673.9	653.2
65°	653.2	653.2	653.2	648.1	637.9	632.8	627.5	617.2	607.0	591.5	571.0
67.5°	576.1	576.1	576.1	571.0	560.8	555.5	550.4	545.2	529.9	514.4	493.9
70°	504.1	504.1	499.0	493.9	488.6	483.5	478.4	468.1	457.8	437.2	421.8
72.5°	432.1	432.1	432.1	421.8	416.6	416.6	406.4	401.2	391.0	370.4	354.9
75°	365.2	360.1	360.1	354.9	349.8	344.6	339.5	334.4	318.9	308.6	288.0
77.5°	298.4	298.4	293.2	288.0	288.0	282.9	277.8	267.5	262.4	246.9	231.5
80°	231.5	231.5	231.5	231.5	226.4	221.2	221.2	210.9	205.8	190.4	180.0
82.5°	174.9	169.8	169.8	169.8	164.6	159.5	159.5	154.4	149.1	138.9	128.6
85°	102.9	97.8	97.8	97.8	92.6	92.6	87.5	87.5	82.2	72.0	72.0
87.5°	30.9	30.9	36.0	36.0	30.9	30.9	30.9	30.9	30.9	25.8	25.8
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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3713.9	3729.4	3708.8	3703.6	3724.2	3713.9	3708.8	3698.5	3703.6	3693.4	3677.9
5°	3708.8	3729.4	3703.6	3688.2	3713.9	3698.5	3688.2	3677.9	3677.9	3657.4	3647.0
7.5°	3693.4	3703.6	3677.9	3662.5	3677.9	3662.5	3652.2	3636.8	3631.6	3605.9	3590.5
10°	3652.2	3662.5	3631.6	3611.0	3626.5	3605.9	3590.5	3575.0	3564.8	3533.9	3513.2
12.5°	3595.6	3600.8	3564.8	3539.0	3549.4	3533.9	3508.1	3487.6	3477.2	3446.4	3420.8
15°	3518.5	3523.6	3482.5	3446.4	3456.8	3436.1	3405.2	3384.8	3369.2	3338.4	3302.4
17.5°	3425.9	3420.8	3374.4	3338.4	3343.5	3317.9	3287.0	3256.1	3235.5	3199.5	3173.8
20°	3323.0	3307.5	3256.1	3215.0	3220.1	3189.2	3153.2	3122.4	3096.6	3065.8	3029.8
22.5°	3194.4	3173.8	3127.5	3076.1	3081.2	3055.5	3004.0	2978.4	2952.6	2911.5	2880.6
25°	3055.5	3024.6	2978.4	2926.9	2926.9	2896.0	2854.9	2824.0	2798.2	2757.1	2721.1
27.5°	2890.9	2875.5	2813.8	2772.6	2767.4	2736.6	2700.6	2664.5	2633.8	2597.6	2561.6
30°	2710.9	2685.1	2638.9	2592.5	2582.2	2556.5	2520.5	2479.4	2458.8	2422.8	2391.9
32.5°	2520.5	2494.8	2443.4	2397.1	2391.9	2371.4	2340.5	2299.4	2278.8	2253.0	2232.5
35°	2304.5	2294.2	2242.8	2206.8	2206.8	2186.1	2155.2	2119.2	2103.9	2078.1	2052.4
37.5°	2098.8	2083.2	2037.0	2006.1	2006.1	1980.4	1949.5	1934.1	1918.6	1898.1	1882.6
40°	1882.6	1872.4	1836.4	1805.5	1810.6	1790.1	1769.5	1748.9	1738.6	1728.4	1712.9
42.5°	1682.1	1671.8	1646.0	1620.4	1620.4	1604.9	1584.4	1568.9	1558.6	1543.1	1538.0
45°	1502.0	1486.6	1466.0	1440.2	1440.2	1424.9	1414.6	1404.2	1399.1	1388.9	1373.4
47.5°	1327.1	1316.9	1296.2	1270.5	1270.5	1270.5	1250.0	1234.5	1234.5	1224.2	1219.1
50°	1178.0	1162.5	1147.1	1126.5	1126.5	1116.2	1100.8	1085.4	1085.4	1080.2	1070.0
52.5°	1039.1	1028.8	1008.2	987.6	987.6	977.4	961.9	956.8	951.6	936.2	931.0
55°	920.8	910.5	895.0	869.4	864.1	859.0	843.6	833.4	828.1	812.8	812.8
57.5°	812.8	802.5	776.8	761.2	756.1	745.9	730.5	720.1	715.0	704.8	694.4
60°	720.1	704.8	684.1	663.6	658.4	648.1	632.8	622.4	617.2	596.8	586.4
62.5°	632.8	617.2	596.8	576.1	571.0	560.8	540.1	529.9	519.5	499.0	488.6
65°	550.4	535.0	514.4	493.9	483.5	478.4	457.8	442.4	432.1	416.6	396.1
67.5°	473.2	457.8	437.2	411.5	411.5	396.1	380.6	365.2	349.8	334.4	318.9
70°	401.2	385.8	365.2	344.6	339.5	329.2	313.8	293.2	282.9	262.4	246.9
72.5°	334.4	318.9	298.4	277.8	272.6	262.4	246.9	226.4	210.9	195.5	180.0
75°	272.6	257.2	236.6	221.2	216.0	205.8	190.4	169.8	154.4	144.0	128.6
77.5°	216.0	200.6	185.1	169.8	164.6	154.4	138.9	128.6	113.1	102.9	87.5
80°	164.6	154.4	138.9	128.6	123.5	113.1	102.9	87.5	77.1	66.9	61.8
82.5°	118.2	108.0	97.8	82.2	82.2	72.0	66.9	56.6	46.2	41.1	36.0
85°	66.9	56.6	51.5	46.2	41.1	41.1	36.0	30.9	25.8	20.6	20.6
87.5°	20.6	20.6	15.4	15.4	15.4	15.4	10.2	10.2	10.2	10.2	10.2
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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3677.9	3683.0	3672.8	3683.0	3672.8	3677.9	3667.6	3677.9	3667.6	3677.9	3657.4
5°	3641.9	3641.9	3626.5	3636.8	3626.5	3631.6	3611.0	3616.1	3605.9	3616.1	3595.6
7.5°	3580.1	3585.4	3559.6	3569.9	3554.5	3554.5	3539.0	3544.1	3528.8	3533.9	3518.5
10°	3508.1	3503.0	3477.2	3487.6	3467.0	3467.0	3451.6	3451.6	3431.0	3436.1	3415.6
12.5°	3405.2	3400.1	3369.2	3379.6	3359.0	3359.0	3343.5	3343.5	3323.0	3333.2	3312.8
15°	3287.0	3281.9	3251.0	3256.1	3235.5	3235.5	3215.0	3220.1	3204.6	3215.0	3194.4
17.5°	3153.2	3148.1	3117.2	3122.4	3096.6	3101.8	3086.4	3081.2	3070.9	3076.1	3060.6
20°	3014.4	3004.0	2973.2	2978.4	2968.0	2952.6	2942.4	2947.5	2937.1	2947.5	2932.0
22.5°	2870.4	2849.8	2824.0	2824.0	2813.8	2813.8	2798.2	2808.6	2788.0	2803.5	2793.1
25°	2705.8	2690.2	2669.8	2680.0	2659.4	2659.4	2644.0	2649.1	2638.9	2649.1	2638.9
27.5°	2546.2	2536.0	2505.1	2515.4	2500.0	2505.1	2489.6	2494.8	2489.6	2500.0	2489.6
30°	2376.5	2371.4	2350.8	2350.8	2345.6	2340.5	2335.4	2335.4	2330.2	2345.6	2335.4
32.5°	2217.0	2201.6	2181.0	2196.5	2170.8	2186.1	2175.9	2186.1	2175.9	2186.1	2181.0
35°	2052.4	2047.2	2021.6	2026.8	2021.6	2021.6	2016.4	2016.4	2016.4	2031.9	2031.9
37.5°	1877.5	1872.4	1857.0	1862.1	1851.9	1846.6	1846.6	1857.0	1857.0	1867.2	1867.2
40°	1707.8	1712.9	1697.5	1697.5	1692.4	1692.4	1692.4	1702.6	1697.5	1707.8	1702.6
42.5°	1538.0	1538.0	1522.6	1527.8	1522.6	1527.8	1527.8	1538.0	1538.0	1543.1	1538.0
45°	1378.6	1378.6	1373.4	1378.6	1368.2	1373.4	1368.2	1378.6	1373.4	1378.6	1378.6
47.5°	1219.1	1219.1	1219.1	1214.0	1214.0	1214.0	1214.0	1214.0	1208.9	1219.1	1214.0
50°	1070.0	1075.1	1070.0	1070.0	1064.8	1070.0	1064.8	1064.8	1054.5	1059.6	1059.6
52.5°	936.2	936.2	925.9	925.9	925.9	920.8	920.8	920.8	915.6	915.6	905.4
55°	807.6	807.6	797.2	797.2	792.1	787.0	781.9	781.9	766.5	766.5	751.0
57.5°	689.2	684.1	668.8	668.8	658.4	653.2	648.1	643.0	632.8	622.4	617.2
60°	581.2	571.0	560.8	555.5	545.2	535.0	524.6	514.4	504.1	499.0	493.9
62.5°	478.4	463.0	452.6	447.5	437.2	421.8	411.5	401.2	391.0	385.8	375.5
65°	385.8	370.4	354.9	349.8	339.5	329.2	313.8	303.5	293.2	288.0	288.0
67.5°	303.5	288.0	267.5	267.5	257.2	246.9	236.6	226.4	221.2	226.4	226.4
70°	226.4	216.0	200.6	195.5	185.1	174.9	169.8	169.8	169.8	174.9	169.8
72.5°	169.8	154.4	144.0	138.9	133.8	128.6	128.6	128.6	123.5	128.6	128.6
75°	118.2	108.0	97.8	97.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6
77.5°	82.2	72.0	66.9	66.9	66.9	61.8	61.8	61.8	61.8	61.8	61.8
80°	51.5	51.5	46.2	46.2	41.1	41.1	41.1	41.1	41.1	41.1	41.1
82.5°	30.9	30.9	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
85°	15.4	15.4	15.4	15.4	15.4	10.2	10.2	10.2	10.2	10.2	10.2
87.5°	5.1	5.1	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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: P252521

CATALOG NUMBER: LE\_6B60D010R EC6B60708040 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3657.4	3672.8	3652.2	3667.6	3662.5	3657.4	3647.0	3667.6
5°	3595.6	3600.8	3580.1	3600.8	3595.6	3585.4	3575.0	3595.6
7.5°	3508.1	3523.6	3497.9	3518.5	3513.2	3503.0	3492.8	3513.2
10°	3410.4	3425.9	3405.2	3420.8	3420.8	3410.4	3395.0	3415.6
12.5°	3302.4	3312.8	3292.1	3312.8	3307.5	3297.2	3292.1	3307.5
15°	3184.1	3199.5	3179.0	3194.4	3189.2	3184.1	3179.0	3194.4
17.5°	3055.5	3070.9	3055.5	3070.9	3070.9	3055.5	3050.4	3060.6
20°	2926.9	2937.1	2921.8	2937.1	2932.0	2932.0	2921.8	2937.1
22.5°	2782.9	2798.2	2788.0	2798.2	2793.1	2793.1	2788.0	2798.2
25°	2638.9	2654.2	2638.9	2654.2	2649.1	2649.1	2638.9	2664.5
27.5°	2494.8	2505.1	2489.6	2510.2	2505.1	2494.8	2500.0	2505.1
30°	2340.5	2350.8	2340.5	2355.9	2355.9	2355.9	2345.6	2355.9
32.5°	2186.1	2201.6	2186.1	2201.6	2196.5	2196.5	2191.4	2201.6
35°	2031.9	2037.0	2026.8	2042.1	2042.1	2047.2	2037.0	2052.4
37.5°	1872.4	1877.5	1872.4	1877.5	1887.9	1872.4	1882.6	1887.9
40°	1707.8	1718.1	1712.9	1718.1	1718.1	1723.2	1718.1	1723.2
42.5°	1543.1	1553.5	1543.1	1558.6	1553.5	1553.5	1558.6	1558.6
45°	1373.4	1388.9	1378.6	1388.9	1394.0	1388.9	1388.9	1399.1
47.5°	1214.0	1224.2	1219.1	1224.2	1224.2	1224.2	1224.2	1234.5
50°	1054.5	1059.6	1059.6	1064.8	1064.8	1070.0	1059.6	1064.8
52.5°	895.0	905.4	905.4	905.4	900.2	905.4	905.4	905.4
55°	751.0	756.1	745.9	756.1	756.1	751.0	751.0	761.2
57.5°	612.1	612.1	612.1	612.1	612.1	607.0	612.1	612.1
60°	483.5	488.6	483.5	483.5	483.5	483.5	478.4	488.6
62.5°	375.5	375.5	370.4	375.5	375.5	375.5	380.6	380.6
65°	293.2	298.4	293.2	298.4	298.4	298.4	298.4	303.5
67.5°	231.5	231.5	231.5	231.5	231.5	231.5	231.5	231.5
70°	174.9	174.9	174.9	180.0	174.9	174.9	174.9	180.0
72.5°	128.6	128.6	128.6	128.6	128.6	128.6	133.8	133.8
75°	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
77.5°	61.8	61.8	61.8	66.9	61.8	66.9	61.8	61.8
80°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
82.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
85°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
87.5°	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1
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)