

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: P252613

Luminaire Tested: **LE_6B50D010R EC6B30508050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252613
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_6B50D010R EC6B30508050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6895.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

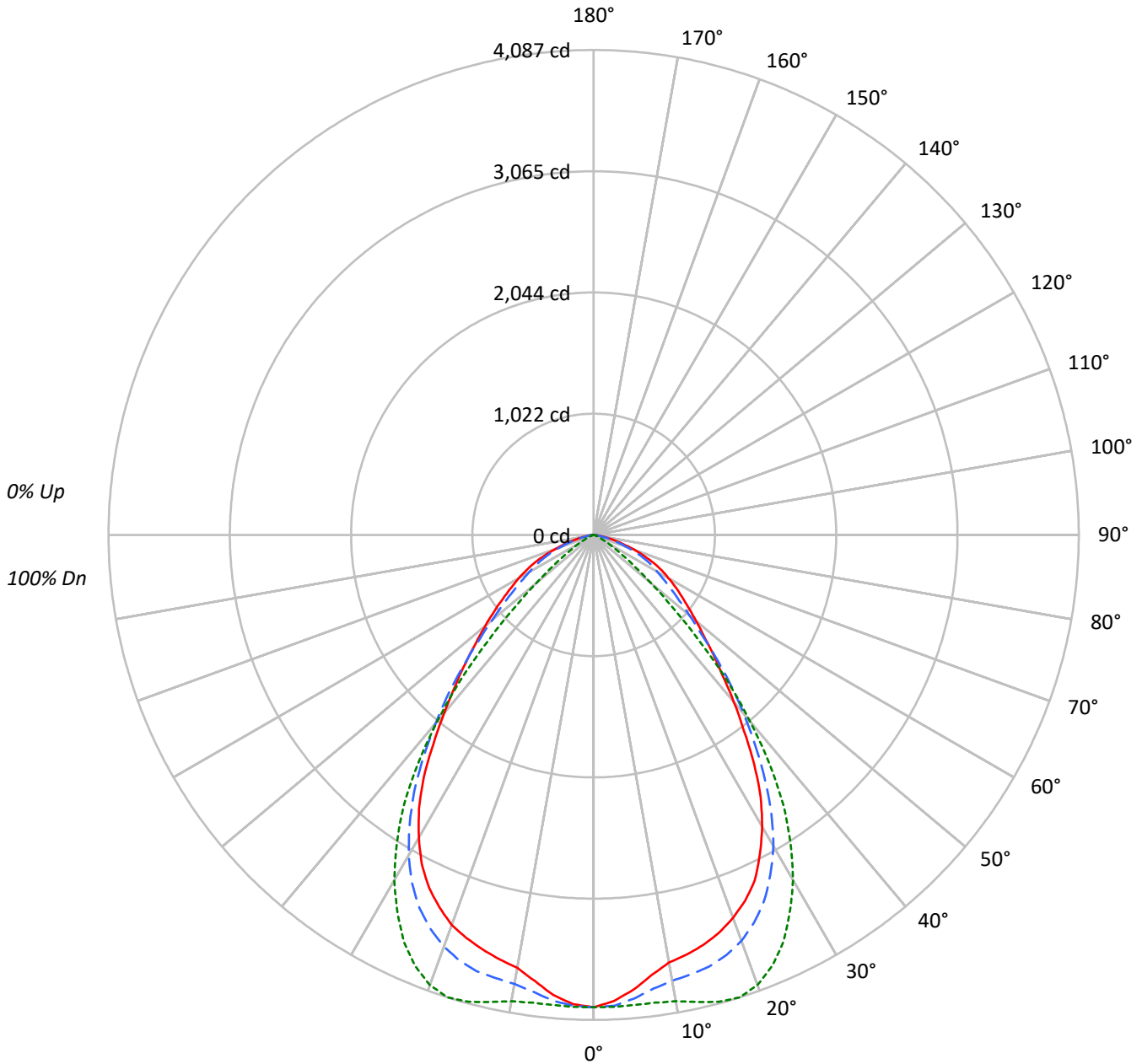
Input Watts (W): 58.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	259716	259716	259716
5°	251966	260401	254978
10°	242372	264326	245432
15°	241524	275092	244313
20°	238352	280210	242830
25°	231230	272312	236197
30°	213909	253083	221887
35°	187657	222486	198664
40°	156381	174419	166575
45°	131624	115063	140537
50°	113970	63050	120984
55°	103120	33497	105736
60°	94873	17419	94873
65°	85970	9247	83824
70°	69357	5265	64092
75°	47540	3479	44087
80°	31146	1728	27652
85°	20660	3443	17217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	5.4
10°-20°	1073.4	15.6
20°-30°	1585.9	23.0
30°-40°	1601.9	23.2
40°-50°	1104.1	16.0
50°-60°	634.1	9.2
60°-70°	369.1	5.4
70°-80°	134.6	2.0
80°-90°	20.6	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°	3030.5	44.0
0°-40°	4632.4	67.2
0°-60°	6370.7	92.4
0°-90°	6895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3981	3981	3981	3981	3981	
5°	3847	3921	3976	3939	3893	361
15°	3576	3764	4073	3806	3617	1007
25°	3212	3401	3783	3470	3281	1464
35°	2356	2517	2794	2632	2494	1462
45°	1427	1445	1247	1537	1523	1109
55°	907	796	294	828	930	816
65°	557	469	60	465	543	545
75°	189	152	14	147	175	213
85°	28	14	5	18	23	35
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°	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9
2.5°	3930.2	3934.8	3939.4	3934.8	3939.4	3957.9	3944.0	3953.2	3953.2	3957.9	3971.6
5°	3847.4	3847.4	3856.6	3852.0	3865.8	3884.1	3870.4	3884.1	3888.8	3898.0	3921.0
7.5°	3741.5	3741.5	3746.1	3746.1	3764.5	3782.9	3773.8	3792.1	3810.5	3829.0	3856.6
10°	3658.6	3667.9	3667.9	3672.5	3690.9	3713.9	3709.2	3732.4	3750.8	3778.4	3815.1
12.5°	3621.9	3626.5	3626.5	3635.6	3654.1	3677.1	3672.5	3695.5	3723.1	3755.4	3792.1
15°	3575.9	3585.0	3580.5	3589.6	3608.0	3631.1	3626.5	3649.5	3681.8	3713.9	3764.5
17.5°	3516.0	3520.6	3525.2	3525.2	3543.6	3562.0	3562.0	3585.0	3621.9	3658.6	3713.9
20°	3433.1	3442.4	3442.4	3447.0	3460.8	3488.4	3483.8	3506.8	3543.6	3580.5	3640.2
22.5°	3336.5	3341.1	3341.1	3345.8	3368.8	3382.5	3387.1	3405.6	3437.8	3479.2	3534.4
25°	3212.2	3216.9	3212.2	3226.1	3235.2	3262.9	3253.8	3276.8	3313.5	3345.8	3401.0
27.5°	3032.8	3042.0	3042.0	3046.6	3069.6	3092.6	3092.6	3115.6	3147.9	3170.9	3226.1
30°	2839.5	2853.2	2839.5	2862.5	2871.8	2890.1	2903.9	2917.8	2945.4	2977.6	3028.2
32.5°	2618.6	2614.0	2618.6	2627.8	2655.4	2669.2	2678.4	2692.2	2719.9	2747.5	2788.9
35°	2356.2	2365.5	2370.1	2388.5	2388.5	2411.5	2416.1	2425.4	2466.8	2485.1	2517.4
37.5°	2080.1	2089.4	2094.0	2103.1	2121.6	2130.8	2144.6	2158.4	2186.0	2218.2	2236.6
40°	1836.2	1836.2	1840.9	1850.0	1863.9	1868.5	1882.2	1900.6	1919.1	1946.8	1965.1
42.5°	1606.1	1610.8	1606.1	1615.4	1629.1	1647.5	1643.0	1666.0	1670.6	1689.0	1702.8
45°	1426.6	1426.6	1417.5	1426.6	1426.6	1445.1	1440.5	1449.6	1445.1	1454.2	1445.1
47.5°	1256.4	1261.0	1256.4	1261.0	1261.0	1261.0	1265.6	1256.4	1261.0	1247.1	1219.5
50°	1122.9	1127.5	1118.4	1122.9	1118.4	1113.8	1118.4	1104.5	1099.9	1081.5	1053.9
52.5°	1007.9	1003.2	998.6	998.6	998.6	994.0	989.5	975.6	961.9	943.4	911.2
55°	906.6	902.0	897.4	897.4	888.2	883.6	883.6	869.8	856.0	833.0	796.1
57.5°	814.6	810.0	805.4	805.4	800.8	791.6	791.6	777.8	759.4	731.8	699.5
60°	727.1	727.1	727.1	722.5	722.5	713.4	713.4	699.5	681.1	653.5	616.6
62.5°	648.9	644.2	644.2	644.2	644.2	639.8	635.1	625.9	607.5	579.9	547.6
65°	556.9	556.9	556.9	556.9	552.2	552.2	552.2	538.5	529.2	501.6	469.4
67.5°	455.6	455.6	455.6	455.6	451.0	455.6	455.6	446.4	437.2	409.6	382.0
70°	363.6	359.0	354.4	359.0	354.4	354.4	359.0	349.8	345.1	322.1	294.5
72.5°	266.9	271.5	266.9	266.9	266.9	262.4	266.9	262.4	253.1	234.8	216.2
75°	188.6	193.2	193.2	188.6	188.6	188.6	184.1	184.1	174.9	161.1	151.9
77.5°	128.9	128.9	128.9	128.9	124.2	124.2	124.2	119.6	115.0	105.9	96.6
80°	82.9	82.9	82.9	82.9	78.2	78.2	78.2	73.6	73.6	64.4	55.2
82.5°	50.6	50.6	50.6	50.6	50.6	50.6	46.0	46.0	41.4	36.9	32.2
85°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	23.0	23.0	18.4	13.8
87.5°	9.2	9.2	13.8	13.8	13.8	13.8	13.8	13.8	9.2	9.2	9.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9
2.5°	3962.4	3967.0	3967.0	3967.0	3980.9	3985.4	3971.6	3957.9	3985.4	3980.9	3990.0
5°	3916.4	3930.2	3939.4	3944.0	3957.9	3967.0	3953.2	3948.6	3971.6	3976.2	3980.9
7.5°	3861.1	3884.1	3907.2	3916.4	3934.8	3944.0	3939.4	3939.4	3967.0	3976.2	3976.2
10°	3824.4	3856.6	3884.1	3907.2	3930.2	3944.0	3944.0	3948.6	3980.9	3990.0	3999.2
12.5°	3815.1	3856.6	3893.4	3925.6	3944.0	3967.0	3971.6	3985.4	4017.6	4031.5	4031.5
15°	3792.1	3847.4	3893.4	3934.8	3962.4	3990.0	3999.2	4026.9	4063.6	4072.9	4082.1
17.5°	3750.8	3806.0	3861.1	3911.8	3948.6	3971.6	3999.2	4026.9	4072.9	4086.6	4091.2
20°	3677.1	3741.5	3796.8	3847.4	3884.1	3916.4	3944.0	3976.2	4017.6	4036.0	4040.6
22.5°	3566.6	3631.1	3686.2	3741.5	3778.4	3806.0	3833.5	3870.4	3911.8	3930.2	3930.2
25°	3433.1	3493.0	3552.9	3594.2	3631.1	3663.2	3677.1	3718.5	3759.9	3782.9	3782.9
27.5°	3262.9	3318.1	3373.4	3419.4	3442.4	3470.0	3493.0	3529.9	3562.0	3580.5	3598.9
30°	3046.6	3101.9	3152.5	3198.5	3226.1	3253.8	3276.8	3304.4	3336.5	3359.5	3364.1
32.5°	2811.9	2857.9	2908.5	2954.5	2982.1	2991.4	3014.4	3042.0	3069.6	3088.0	3092.6
35°	2554.1	2586.4	2618.6	2660.0	2687.6	2687.6	2710.6	2729.0	2752.1	2793.5	2784.2
37.5°	2250.4	2296.5	2319.5	2333.2	2351.6	2370.1	2374.8	2397.8	2425.4	2434.5	2448.4
40°	1965.1	1978.9	1992.8	1992.8	2011.1	2011.1	2011.1	2015.8	2043.4	2048.0	2066.4
42.5°	1679.8	1679.8	1666.0	1652.1	1656.8	1652.1	1629.1	1629.1	1643.0	1661.4	1661.4
45°	1412.9	1380.6	1339.2	1307.0	1284.0	1274.8	1247.1	1247.1	1242.6	1247.1	1265.6
47.5°	1187.4	1132.1	1063.1	998.6	975.6	957.2	915.9	897.4	888.2	892.8	902.0
50°	998.6	938.9	860.6	782.4	741.0	717.9	667.2	635.1	630.5	621.2	639.8
52.5°	860.6	787.0	704.1	612.1	570.6	533.9	478.6	451.0	432.6	432.6	437.2
55°	741.0	662.8	570.6	478.6	437.2	409.6	354.4	317.5	299.1	294.5	308.4
57.5°	639.8	566.0	474.0	382.0	340.5	308.4	253.1	220.9	207.1	197.9	202.5
60°	561.5	487.9	395.8	308.4	271.5	234.8	188.6	151.9	133.5	133.5	138.1
62.5°	487.9	418.8	336.0	253.1	220.9	188.6	138.1	105.9	92.0	87.5	92.0
65°	414.2	349.8	280.8	211.8	179.5	151.9	110.5	82.9	64.4	59.9	64.4
67.5°	336.0	285.4	225.5	170.2	142.6	119.6	82.9	59.9	46.0	41.4	46.0
70°	262.4	216.2	170.2	124.2	105.9	87.5	59.9	46.0	32.2	27.6	32.2
72.5°	188.6	156.5	119.6	87.5	73.6	59.9	41.4	32.2	23.0	18.4	23.0
75°	128.9	105.9	78.2	55.2	46.0	41.4	27.6	18.4	13.8	13.8	13.8
77.5°	82.9	64.4	50.6	36.9	27.6	23.0	13.8	9.2	9.2	9.2	9.2
80°	46.0	36.9	27.6	18.4	13.8	13.8	9.2	9.2	4.6	4.6	4.6
82.5°	27.6	18.4	13.8	9.2	9.2	4.6	4.6	4.6	4.6	4.6	4.6
85°	13.8	9.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
87.5°	4.6	4.6	4.6	4.6	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°	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9
2.5°	3971.6	3976.2	3962.4	3980.9	3967.0	3985.4	3985.4	3967.0	3971.6	3962.4	3980.9
5°	3962.4	3962.4	3953.2	3967.0	3948.6	3967.0	3962.4	3930.2	3939.4	3921.0	3939.4
7.5°	3962.4	3953.2	3939.4	3953.2	3930.2	3944.0	3925.6	3893.4	3884.1	3861.1	3861.1
10°	3976.2	3962.4	3944.0	3948.6	3925.6	3930.2	3902.6	3856.6	3842.8	3815.1	3806.0
12.5°	4008.5	3994.6	3967.0	3976.2	3944.0	3944.0	3907.2	3852.0	3824.4	3787.5	3778.4
15°	4054.5	4031.5	3999.2	4003.9	3971.6	3953.2	3907.2	3842.8	3806.0	3755.4	3741.5
17.5°	4063.6	4040.6	3999.2	3999.2	3957.9	3934.8	3879.6	3806.0	3759.9	3709.2	3681.8
20°	4013.0	3990.0	3944.0	3939.4	3902.6	3870.4	3810.5	3736.9	3690.9	3635.6	3612.6
22.5°	3907.2	3879.6	3838.1	3833.5	3796.8	3778.4	3713.9	3640.2	3594.2	3539.0	3520.6
25°	3750.8	3736.9	3695.5	3690.9	3658.6	3635.6	3580.5	3511.4	3470.0	3414.8	3396.4
27.5°	3566.6	3552.9	3511.4	3511.4	3474.6	3460.8	3410.1	3345.8	3313.5	3262.9	3239.9
30°	3345.8	3327.4	3304.4	3299.8	3267.5	3253.8	3207.6	3147.9	3115.6	3074.2	3065.0
32.5°	3083.4	3069.6	3055.8	3051.2	3019.0	3005.1	2973.0	2913.1	2885.5	2848.8	2834.9
35°	2779.6	2770.5	2756.6	2752.1	2738.2	2724.5	2692.2	2646.2	2632.4	2604.8	2591.0
37.5°	2429.9	2439.1	2429.9	2429.9	2416.1	2420.8	2393.1	2365.5	2351.6	2333.2	2324.1
40°	2052.5	2071.0	2084.8	2084.8	2080.1	2098.6	2094.0	2071.0	2066.4	2057.1	2052.5
42.5°	1670.6	1679.8	1707.4	1725.8	1721.2	1767.2	1771.9	1790.2	1804.0	1794.9	1799.4
45°	1270.1	1297.8	1334.6	1353.0	1376.0	1435.9	1468.1	1504.9	1537.1	1555.5	1550.9
47.5°	915.9	948.0	989.5	1017.1	1058.5	1132.1	1215.0	1261.0	1307.0	1330.0	1353.0
50°	662.8	694.9	745.5	787.0	814.6	915.9	1003.2	1063.1	1113.8	1145.9	1168.9
52.5°	464.9	501.6	556.9	593.6	635.1	731.8	833.0	902.0	957.2	998.6	1021.6
55°	322.1	363.6	414.2	451.0	497.0	598.2	694.9	768.5	828.4	865.2	892.8
57.5°	225.5	262.4	313.0	345.1	391.1	487.9	584.5	658.1	717.9	754.8	787.0
60°	151.9	188.6	239.2	271.5	308.4	405.0	492.4	570.6	625.9	662.8	694.9
62.5°	105.9	138.1	188.6	220.9	253.1	336.0	418.8	487.9	543.0	584.5	612.1
65°	82.9	110.5	151.9	179.5	211.8	280.8	349.8	409.6	464.9	506.2	524.6
67.5°	59.9	87.5	119.6	142.6	165.6	225.5	285.4	331.4	382.0	414.2	437.2
70°	41.4	59.9	87.5	105.9	124.2	170.2	216.2	257.8	294.5	317.5	336.0
72.5°	32.2	41.4	59.9	73.6	87.5	119.6	156.5	188.6	216.2	234.8	253.1
75°	18.4	27.6	41.4	50.6	59.9	82.9	105.9	128.9	147.2	161.1	170.2
77.5°	9.2	13.8	23.0	27.6	36.9	50.6	69.0	82.9	96.6	105.9	115.0
80°	9.2	9.2	13.8	13.8	18.4	27.6	36.9	46.0	55.2	64.4	69.0
82.5°	4.6	4.6	9.2	9.2	9.2	13.8	18.4	27.6	32.2	36.9	41.4
85°	4.6	4.6	4.6	4.6	4.6	9.2	9.2	13.8	18.4	23.0	23.0
87.5°	0.0	0.0	4.6	4.6	4.6	4.6	4.6	9.2	9.2	9.2	13.8
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: P252613

CATALOG NUMBER: LE_6B50D010R EC6B30508050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9	3980.9
2.5°	3967.0	3976.2	3971.6	3980.9	3967.0	3962.4	3971.6	3957.9
5°	3916.4	3921.0	3916.4	3916.4	3907.2	3898.0	3907.2	3893.4
7.5°	3838.1	3838.1	3824.4	3824.4	3806.0	3796.8	3796.8	3792.1
10°	3773.8	3759.9	3746.1	3750.8	3723.1	3713.9	3709.2	3704.8
12.5°	3741.5	3732.4	3709.2	3709.2	3681.8	3672.5	3667.9	3663.2
15°	3704.8	3686.2	3667.9	3663.2	3640.2	3631.1	3626.5	3617.2
17.5°	3640.2	3626.5	3603.5	3603.5	3580.5	3575.9	3566.6	3562.0
20°	3571.2	3552.9	3534.4	3534.4	3506.8	3506.8	3493.0	3497.6
22.5°	3474.6	3460.8	3442.4	3442.4	3419.4	3414.8	3401.0	3396.4
25°	3359.5	3341.1	3327.4	3322.8	3304.4	3295.1	3290.5	3281.2
27.5°	3207.6	3193.9	3180.0	3170.9	3147.9	3143.2	3129.4	3134.0
30°	3019.0	3009.8	3005.1	2996.0	2968.4	2959.1	2959.1	2945.4
32.5°	2811.9	2798.1	2788.9	2775.1	2752.1	2747.5	2733.6	2738.2
35°	2558.8	2540.4	2526.5	2531.1	2503.5	2499.0	2489.8	2494.4
37.5°	2296.5	2278.0	2259.6	2255.0	2232.0	2232.0	2218.2	2218.2
40°	2024.9	2006.5	1997.4	1997.4	1969.8	1974.2	1960.5	1955.9
42.5°	1781.0	1762.6	1758.0	1753.4	1739.6	1735.0	1721.2	1725.8
45°	1550.9	1546.2	1546.2	1537.1	1523.2	1518.8	1523.2	1523.2
47.5°	1348.4	1353.0	1348.4	1348.4	1339.2	1348.4	1339.2	1343.9
50°	1178.1	1187.4	1187.4	1187.4	1182.8	1187.4	1187.4	1192.0
52.5°	1035.5	1049.2	1044.6	1049.2	1044.6	1053.9	1049.2	1053.9
55°	911.2	920.4	925.0	929.6	929.6	929.6	929.6	929.6
57.5°	796.1	810.0	814.6	819.1	819.1	828.4	819.1	819.1
60°	704.1	717.9	722.5	727.1	727.1	731.8	722.5	727.1
62.5°	621.2	635.1	635.1	639.8	639.8	639.8	630.5	635.1
65°	538.5	543.0	547.6	547.6	543.0	543.0	538.5	543.0
67.5°	446.4	451.0	446.4	446.4	441.8	441.8	432.6	437.2
70°	345.1	345.1	349.8	345.1	340.5	345.1	340.5	336.0
72.5°	257.8	257.8	257.8	253.1	253.1	248.5	253.1	253.1
75°	174.9	174.9	179.5	179.5	179.5	179.5	174.9	174.9
77.5°	115.0	115.0	115.0	115.0	119.6	115.0	115.0	115.0
80°	73.6	73.6	78.2	78.2	73.6	73.6	73.6	73.6
82.5°	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
85°	27.6	27.6	27.6	27.6	23.0	23.0	23.0	23.0
87.5°	13.8	13.8	13.8	13.8	13.8	13.8	9.2	9.2
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)