

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: P212837

Luminaire Tested: **LE\_6B50D010R EC6B30508035 6LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B50D010R EC6B30508035 6LBSWLI1  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6547.7 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

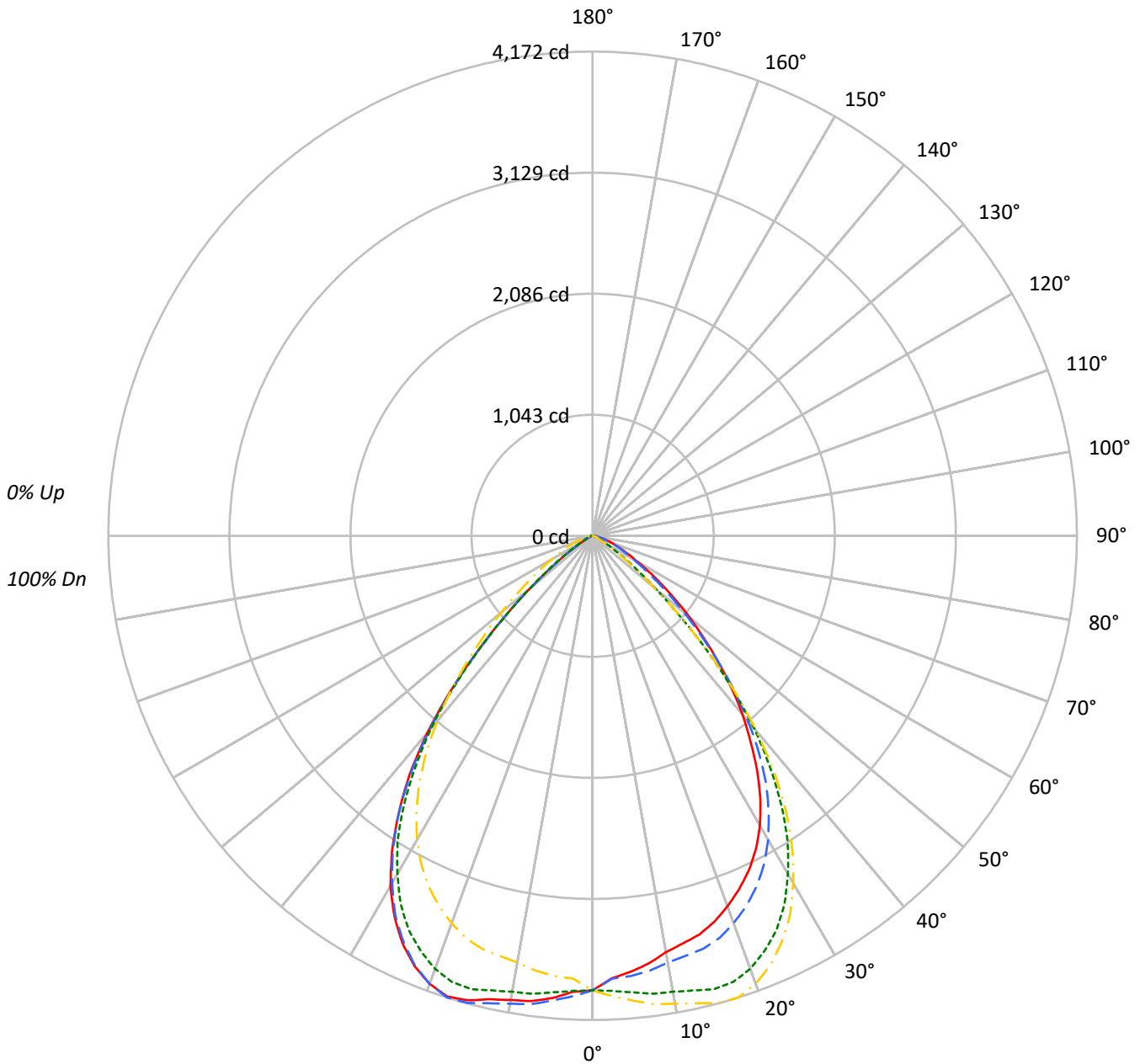
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82																			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66																			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60																			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45																			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38																			

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

	0°	90°	180°	270°
0°	214687	214687	214687	214687
5°	207484	217268	220030	217268
10°	202780	222062	226126	222062
15°	201823	229513	235200	229513
20°	198146	231662	239643	231662
25°	192483	226682	234401	226682
30°	182395	212982	220483	212982
35°	165367	189780	194960	189780
40°	143555	154647	158569	154647
45°	117702	106748	107453	106748
50°	92543	59879	58710	59879
55°	68413	29629	26580	29629
60°	48483	12992	9495	12992
65°	36074	8289	5915	8289
70°	26303	6572	4392	6572
75°	19296	4829	2881	4829
80°	12944	4293	1421	4293
85°	8554	2830	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.9	5.7
10°-20°	1110.4	17.0
20°-30°	1657.1	25.3
30°-40°	1702.5	26.0
40°-50°	1102.5	16.8
50°-60°	409.9	6.3
60°-70°	134.5	2.1
70°-80°	47.4	0.7
80°-90°	8.5	0.1
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°	3142.4	48.0
0°-40°	4844.8	74.0
0°-60°	6357.3	97.1
0°-90°	6547.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6547.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3916	3916	3916	3916	3916	
5°	3770	3948	3998	3948	3770	356
15°	3556	4044	4144	4044	3556	1000
25°	3182	3748	3875	3748	3182	1458
35°	2471	2836	2913	2836	2471	1534
45°	1518	1377	1386	1377	1518	1174
55°	716	310	278	310	716	653
65°	278	64	46	64	278	283
75°	91	23	14	23	91	100
85°	14	4	4	4	14	18
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°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3816.0	3870.8	3834.2	3857.0	3820.5	3820.5	3893.5	3852.5	3884.4	3852.5	3820.5
5°	3770.4	3838.8	3793.2	3816.0	3784.1	3788.6	3857.0	3825.1	3857.0	3834.2	3806.9
7.5°	3715.8	3784.1	3743.0	3765.9	3733.9	3743.0	3816.0	3784.1	3820.5	3797.8	3779.5
10°	3642.8	3715.8	3679.2	3702.0	3674.6	3679.2	3752.1	3729.4	3761.2	3747.6	3733.9
12.5°	3597.1	3665.5	3624.5	3647.2	3629.1	3638.2	3706.6	3688.4	3729.4	3715.8	3706.6
15°	3556.1	3620.0	3583.5	3606.2	3592.6	3597.1	3670.1	3651.9	3697.5	3688.4	3683.8
17.5°	3487.8	3556.1	3515.1	3542.5	3528.8	3533.4	3606.2	3592.6	3638.2	3638.2	3633.6
20°	3396.5	3465.0	3433.0	3451.2	3442.1	3451.2	3515.1	3506.0	3551.6	3551.6	3551.6
22.5°	3296.2	3364.6	3328.1	3346.4	3337.2	3351.0	3410.2	3410.2	3446.8	3451.2	3455.9
25°	3182.2	3250.6	3214.2	3237.0	3227.9	3237.0	3291.8	3296.2	3328.1	3328.1	3337.2
27.5°	3045.5	3113.9	3077.4	3095.6	3091.1	3095.6	3154.9	3164.0	3182.2	3186.9	3196.0
30°	2881.4	2945.2	2908.8	2927.0	2927.0	2927.0	2986.2	2990.8	3009.0	3013.6	3022.8
32.5°	2689.9	2744.6	2717.2	2735.5	2730.9	2740.0	2781.1	2799.2	2822.1	2817.5	2822.1
35°	2471.0	2530.4	2503.0	2516.6	2521.2	2534.9	2562.2	2585.0	2589.6	2594.1	2603.2
37.5°	2234.0	2293.2	2265.9	2279.6	2284.1	2311.5	2320.6	2343.4	2352.5	2352.5	2352.5
40°	2006.0	2033.4	2010.6	2024.2	2028.9	2051.6	2060.8	2079.0	2088.1	2083.5	2079.0
42.5°	1759.9	1782.6	1759.9	1773.5	1773.5	1791.8	1796.2	1819.1	1819.1	1810.0	1796.2
45°	1518.2	1541.0	1518.2	1527.2	1527.2	1545.5	1545.5	1545.5	1554.6	1541.0	1518.2
47.5°	1290.2	1313.0	1290.2	1299.4	1294.8	1308.5	1303.9	1308.5	1294.8	1285.6	1258.4
50°	1085.1	1094.2	1085.1	1080.5	1085.1	1094.2	1089.6	1089.6	1071.4	1057.8	1025.8
52.5°	884.5	898.1	884.5	884.5	884.5	893.6	893.6	889.0	870.8	852.5	820.6
55°	715.8	724.9	720.4	715.8	715.8	724.9	715.8	715.8	697.5	683.9	652.0
57.5°	569.9	574.5	569.9	569.9	569.9	574.5	574.5	565.4	551.6	538.0	515.1
60°	442.2	446.8	446.8	442.2	442.2	451.4	451.4	446.8	433.1	424.0	401.2
62.5°	351.0	351.0	351.0	351.0	351.0	355.6	355.6	355.6	346.5	337.4	319.1
65°	278.1	282.6	278.1	278.1	282.6	287.2	282.6	287.2	278.1	273.5	259.9
67.5°	214.2	218.9	214.2	218.9	218.9	223.4	218.9	223.4	214.2	209.8	200.6
70°	164.1	164.1	164.1	164.1	164.1	168.8	164.1	168.8	164.1	159.6	150.5
72.5°	123.1	123.1	127.6	127.6	123.1	127.6	123.1	123.1	123.1	118.5	114.0
75°	91.1	91.1	95.8	91.1	91.1	91.1	91.1	91.1	86.6	86.6	82.1
77.5°	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	59.2	59.2	54.8
80°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	36.5	36.5
82.5°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	22.8	22.8
85°	13.6	13.6	13.6	18.2	13.6	13.6	13.6	13.6	13.6	13.6	13.6
87.5°	4.5	4.5	4.5	9.1	4.5	4.5	9.1	9.1	4.5	4.5	4.5
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°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3857.0	3870.8	3870.8	3857.0	3889.0	3861.6	3916.2	3866.1	3879.9	3925.4	3920.9
5°	3843.4	3861.6	3866.1	3857.0	3898.1	3875.2	3930.0	3879.9	3902.6	3948.2	3948.2
7.5°	3825.1	3847.9	3857.0	3866.1	3902.6	3879.9	3943.6	3893.5	3925.4	3980.1	3975.6
10°	3784.1	3816.0	3834.2	3847.9	3884.4	3870.8	3939.1	3898.1	3925.4	3989.2	3984.8
12.5°	3761.2	3797.8	3825.1	3847.9	3889.0	3879.9	3948.2	3911.8	3948.2	4012.0	4012.0
15°	3743.0	3784.1	3816.0	3857.0	3898.1	3889.0	3961.9	3930.0	3966.5	4044.0	4039.4
17.5°	3697.5	3747.6	3779.5	3825.1	3866.1	3861.6	3939.1	3916.2	3957.4	4030.2	4034.9
20°	3620.0	3665.5	3702.0	3756.8	3802.4	3793.2	3875.2	3852.5	3893.5	3971.0	3975.6
22.5°	3519.6	3565.2	3601.8	3661.0	3702.0	3697.5	3779.5	3756.8	3797.8	3870.8	3875.2
25°	3401.1	3442.1	3478.6	3533.4	3578.9	3578.9	3651.9	3629.1	3674.6	3747.6	3747.6
27.5°	3255.2	3291.8	3323.6	3387.5	3423.9	3423.9	3492.2	3469.5	3515.1	3578.9	3574.4
30°	3077.4	3109.4	3136.8	3191.4	3223.2	3227.9	3287.1	3264.4	3309.9	3364.6	3364.6
32.5°	2863.1	2895.0	2913.2	2981.6	3004.5	2999.9	3045.5	3022.8	3068.2	3127.6	3113.9
35°	2635.1	2648.9	2662.5	2730.9	2740.0	2721.8	2767.4	2744.6	2776.5	2835.8	2826.6
37.5°	2375.2	2379.9	2379.9	2439.1	2443.8	2430.0	2457.4	2430.0	2452.9	2507.5	2503.0
40°	2088.1	2083.5	2079.0	2124.5	2120.0	2092.6	2110.9	2088.1	2120.0	2161.0	2138.2
42.5°	1796.2	1782.6	1764.4	1787.1	1769.0	1746.1	1755.2	1718.8	1741.6	1773.5	1746.1
45°	1509.1	1481.8	1445.2	1449.8	1427.0	1399.6	1386.0	1349.5	1345.0	1376.9	1354.1
47.5°	1240.1	1185.4	1153.5	1135.2	1098.8	1076.0	1048.6	1007.6	989.4	1007.6	984.8
50°	998.5	943.8	902.8	861.6	825.2	797.9	752.2	724.9	697.5	702.1	683.9
52.5°	788.8	752.2	683.9	652.0	615.5	583.6	542.5	510.6	478.8	478.8	460.5
55°	624.6	574.5	528.9	483.2	446.8	419.5	378.4	346.5	314.6	310.0	291.8
57.5°	483.2	446.8	396.6	351.0	328.2	300.9	259.9	223.4	205.1	191.5	177.8
60°	373.9	337.4	296.4	259.9	232.5	214.2	173.2	145.9	127.6	118.5	104.9
62.5°	300.9	269.0	232.5	196.0	177.8	159.6	127.6	104.9	86.6	77.5	68.4
65°	241.6	214.2	186.9	159.6	145.9	127.6	104.9	86.6	73.0	63.9	54.8
67.5°	186.9	168.8	145.9	127.6	114.0	100.2	82.1	68.4	59.2	50.1	45.6
70°	141.4	127.6	114.0	95.8	86.6	77.5	63.9	50.1	45.6	41.0	36.5
72.5°	109.4	95.8	82.1	73.0	63.9	59.2	50.1	41.0	36.5	31.9	27.4
75°	73.0	68.4	59.2	50.1	45.6	41.0	36.5	31.9	27.4	22.8	22.8
77.5°	50.1	45.6	41.0	36.5	31.9	31.9	27.4	22.8	18.2	18.2	13.6
80°	31.9	27.4	27.4	22.8	22.8	22.8	18.2	13.6	13.6	13.6	9.1
82.5°	22.8	18.2	18.2	13.6	13.6	13.6	13.6	9.1	9.1	9.1	4.5
85°	13.6	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3884.4	3925.4	3925.4	3961.9	3966.5	3957.4	3916.2	3916.2	3971.0	4002.9	3948.2
5°	3920.9	3961.9	3961.9	3998.4	4016.6	4002.9	3961.9	3966.5	4021.1	4057.6	4002.9
7.5°	3952.8	3993.8	4002.9	4044.0	4057.6	4044.0	4002.9	4012.0	4071.2	4103.2	4048.5
10°	3966.5	4007.5	4012.0	4057.6	4075.9	4057.6	4025.8	4030.2	4094.1	4116.9	4066.8
12.5°	3998.4	4039.4	4039.4	4089.5	4107.8	4094.1	4053.1	4062.2	4126.0	4148.9	4098.6
15°	4030.2	4071.2	4071.2	4126.0	4148.9	4130.6	4098.6	4103.2	4167.0	4189.9	4148.9
17.5°	4030.2	4066.8	4066.8	4126.0	4148.9	4135.1	4098.6	4103.2	4171.6	4189.9	4148.9
20°	3971.0	4012.0	4002.9	4062.2	4085.0	4071.2	4039.4	4039.4	4107.8	4126.0	4085.0
22.5°	3875.2	3911.8	3902.6	3957.4	3984.8	3966.5	3939.1	3934.5	4002.9	4021.1	3980.1
25°	3743.0	3779.5	3770.4	3825.1	3852.5	3829.6	3797.8	3802.4	3857.0	3884.4	3847.9
27.5°	3588.0	3610.9	3597.1	3651.9	3679.2	3656.4	3624.5	3629.1	3683.8	3702.0	3674.6
30°	3378.4	3396.5	3382.9	3428.5	3446.8	3433.0	3405.6	3405.6	3455.9	3478.6	3451.2
32.5°	3127.6	3141.2	3127.6	3164.0	3200.5	3173.1	3145.8	3145.8	3200.5	3218.8	3186.9
35°	2835.8	2849.5	2840.4	2876.9	2904.1	2867.8	2844.9	2835.8	2908.8	2899.6	2881.4
37.5°	2512.1	2521.2	2493.9	2557.6	2571.4	2530.4	2512.1	2503.0	2566.8	2562.2	2544.0
40°	2147.4	2156.5	2138.2	2183.9	2188.4	2156.5	2142.8	2129.1	2193.0	2188.4	2174.8
42.5°	1759.9	1764.4	1741.6	1778.1	1787.1	1755.2	1750.8	1732.5	1791.8	1782.6	1778.1
45°	1358.6	1358.6	1340.4	1367.8	1376.9	1349.5	1340.4	1335.9	1376.9	1376.9	1367.8
47.5°	984.8	971.1	948.2	989.4	993.9	975.6	971.1	957.4	998.5	998.5	989.4
50°	674.8	670.2	665.6	674.8	679.2	656.5	670.2	656.5	679.2	679.2	679.2
52.5°	451.4	446.8	437.6	446.8	446.8	433.1	433.1	428.5	446.8	446.8	437.6
55°	282.6	278.1	273.5	278.1	278.1	264.4	273.5	264.4	273.5	273.5	269.0
57.5°	173.2	164.1	164.1	159.6	159.6	150.5	155.0	155.0	155.0	155.0	155.0
60°	100.2	95.8	91.1	91.1	91.1	86.6	86.6	86.6	86.6	86.6	86.6
62.5°	63.9	63.9	59.2	59.2	59.2	59.2	59.2	54.8	59.2	59.2	59.2
65°	54.8	50.1	50.1	50.1	50.1	45.6	45.6	45.6	45.6	45.6	45.6
67.5°	45.6	41.0	41.0	41.0	41.0	36.5	36.5	36.5	36.5	36.5	36.5
70°	36.5	31.9	31.9	31.9	31.9	31.9	27.4	31.9	31.9	27.4	27.4
72.5°	27.4	27.4	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
75°	18.2	18.2	18.2	18.2	18.2	13.6	13.6	13.6	13.6	13.6	13.6
77.5°	13.6	13.6	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	4.5	4.5	4.5	4.5	4.5	0.0	4.5	0.0	4.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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





TEST NUMBER: P212837

CATALOG NUMBER: LE\_6B50D010R EC6B30508035 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	4012.0	3966.5	3943.6	3989.2	4007.5	3984.8	3966.5	3934.5	3966.5	3984.8	4007.5
5°	4066.8	4025.8	4007.5	4039.4	4066.8	4044.0	4030.2	3998.4	4030.2	4044.0	4066.8
7.5°	4116.9	4075.9	4053.1	4085.0	4116.9	4085.0	4071.2	4044.0	4071.2	4085.0	4116.9
10°	4135.1	4089.5	4071.2	4098.6	4130.6	4098.6	4080.4	4062.2	4080.4	4098.6	4130.6
12.5°	4167.0	4121.5	4098.6	4121.5	4153.4	4121.5	4103.2	4089.5	4103.2	4121.5	4153.4
15°	4212.6	4171.6	4144.2	4167.0	4208.1	4171.6	4148.9	4144.2	4148.9	4171.6	4208.1
17.5°	4212.6	4180.8	4153.4	4171.6	4212.6	4185.2	4153.4	4162.5	4153.4	4185.2	4212.6
20°	4153.4	4121.5	4098.6	4098.6	4157.9	4121.5	4094.1	4107.8	4094.1	4121.5	4157.9
22.5°	4048.5	4021.1	3998.4	3993.8	4053.1	4021.1	3984.8	4012.0	3984.8	4021.1	4053.1
25°	3911.8	3884.4	3866.1	3857.0	3916.2	3879.9	3847.9	3875.2	3847.9	3879.9	3916.2
27.5°	3733.9	3711.1	3692.9	3679.2	3733.9	3702.0	3670.1	3697.5	3670.1	3702.0	3733.9
30°	3506.0	3492.2	3474.1	3455.9	3510.5	3478.6	3446.8	3483.1	3446.8	3478.6	3510.5
32.5°	3241.5	3232.4	3209.6	3191.4	3246.1	3209.6	3186.9	3214.2	3186.9	3209.6	3246.1
35°	2936.1	2922.4	2908.8	2876.9	2936.1	2904.1	2904.1	2913.2	2904.1	2904.1	2936.1
37.5°	2594.1	2585.0	2566.8	2539.5	2589.6	2566.8	2557.6	2585.0	2557.6	2566.8	2589.6
40°	2211.1	2206.6	2193.0	2161.0	2215.8	2193.0	2179.2	2215.8	2179.2	2193.0	2215.8
42.5°	1810.0	1800.9	1787.1	1782.6	1810.0	1791.8	1805.4	1805.4	1805.4	1791.8	1810.0
45°	1395.1	1386.0	1376.9	1358.6	1390.5	1381.4	1376.9	1386.0	1376.9	1381.4	1390.5
47.5°	1012.1	1003.0	993.9	980.2	1012.1	998.5	998.5	1007.6	998.5	998.5	1012.1
50°	679.2	683.9	679.2	670.2	679.2	674.8	679.2	688.4	679.2	674.8	679.2
52.5°	451.4	451.4	442.2	437.6	446.8	442.2	455.9	446.8	455.9	442.2	446.8
55°	273.5	278.1	273.5	269.0	273.5	269.0	282.6	278.1	282.6	269.0	273.5
57.5°	155.0	155.0	159.6	155.0	164.1	159.6	159.6	159.6	159.6	159.6	164.1
60°	86.6	86.6	86.6	86.6	86.6	86.6	91.1	86.6	91.1	86.6	86.6
62.5°	59.2	59.2	59.2	54.8	59.2	54.8	59.2	59.2	59.2	54.8	59.2
65°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
67.5°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
70°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
72.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
75°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212837

CATALOG NUMBER: LE\_6B50D010R EC6B30508035 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3989.2	3943.6	3966.5	4012.0	3948.2	4002.9	3971.0	3916.2	3916.2	3957.4	3966.5
5°	4039.4	4007.5	4025.8	4066.8	4002.9	4057.6	4021.1	3966.5	3961.9	4002.9	4016.6
7.5°	4085.0	4053.1	4075.9	4116.9	4048.5	4103.2	4071.2	4012.0	4002.9	4044.0	4057.6
10°	4098.6	4071.2	4089.5	4135.1	4066.8	4116.9	4094.1	4030.2	4025.8	4057.6	4075.9
12.5°	4121.5	4098.6	4121.5	4167.0	4098.6	4148.9	4126.0	4062.2	4053.1	4094.1	4107.8
15°	4167.0	4144.2	4171.6	4212.6	4148.9	4189.9	4167.0	4103.2	4098.6	4130.6	4148.9
17.5°	4171.6	4153.4	4180.8	4212.6	4148.9	4189.9	4171.6	4103.2	4098.6	4135.1	4148.9
20°	4098.6	4098.6	4121.5	4153.4	4085.0	4126.0	4107.8	4039.4	4039.4	4071.2	4085.0
22.5°	3993.8	3998.4	4021.1	4048.5	3980.1	4021.1	4002.9	3934.5	3939.1	3966.5	3984.8
25°	3857.0	3866.1	3884.4	3911.8	3847.9	3884.4	3857.0	3802.4	3797.8	3829.6	3852.5
27.5°	3679.2	3692.9	3711.1	3733.9	3674.6	3702.0	3683.8	3629.1	3624.5	3656.4	3679.2
30°	3455.9	3474.1	3492.2	3506.0	3451.2	3478.6	3455.9	3405.6	3405.6	3433.0	3446.8
32.5°	3191.4	3209.6	3232.4	3241.5	3186.9	3218.8	3200.5	3145.8	3145.8	3173.1	3200.5
35°	2876.9	2908.8	2922.4	2936.1	2881.4	2899.6	2908.8	2835.8	2844.9	2867.8	2904.1
37.5°	2539.5	2566.8	2585.0	2594.1	2544.0	2562.2	2566.8	2503.0	2512.1	2530.4	2571.4
40°	2161.0	2193.0	2206.6	2211.1	2174.8	2188.4	2193.0	2129.1	2142.8	2156.5	2188.4
42.5°	1782.6	1787.1	1800.9	1810.0	1778.1	1782.6	1791.8	1732.5	1750.8	1755.2	1787.1
45°	1358.6	1376.9	1386.0	1395.1	1367.8	1376.9	1376.9	1335.9	1340.4	1349.5	1376.9
47.5°	980.2	993.9	1003.0	1012.1	989.4	998.5	998.5	957.4	971.1	975.6	993.9
50°	670.2	679.2	683.9	679.2	679.2	679.2	679.2	656.5	670.2	656.5	679.2
52.5°	437.6	442.2	451.4	451.4	437.6	446.8	446.8	428.5	433.1	433.1	446.8
55°	269.0	273.5	278.1	273.5	269.0	273.5	273.5	264.4	273.5	264.4	278.1
57.5°	155.0	159.6	155.0	155.0	155.0	155.0	155.0	155.0	155.0	150.5	159.6
60°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	91.1
62.5°	54.8	59.2	59.2	59.2	59.2	59.2	59.2	54.8	59.2	59.2	59.2
65°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	50.1
67.5°	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	41.0
70°	27.4	27.4	27.4	27.4	27.4	27.4	31.9	31.9	27.4	31.9	31.9
72.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
75°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	18.2
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.1
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	4.5	0.0	4.5
87.5°	0.0	0.0	0.0	0.0	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



TEST NUMBER: P212837

CATALOG NUMBER: LE\_6B50D010R EC6B30508035 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3961.9	3925.4	3925.4	3884.4	3920.9	3925.4	3879.9	3866.1	3916.2	3861.6	3889.0
5°	3998.4	3961.9	3961.9	3920.9	3948.2	3948.2	3902.6	3879.9	3930.0	3875.2	3898.1
7.5°	4044.0	4002.9	3993.8	3952.8	3975.6	3980.1	3925.4	3893.5	3943.6	3879.9	3902.6
10°	4057.6	4012.0	4007.5	3966.5	3984.8	3989.2	3925.4	3898.1	3939.1	3870.8	3884.4
12.5°	4089.5	4039.4	4039.4	3998.4	4012.0	4012.0	3948.2	3911.8	3948.2	3879.9	3889.0
15°	4126.0	4071.2	4071.2	4030.2	4039.4	4044.0	3966.5	3930.0	3961.9	3889.0	3898.1
17.5°	4126.0	4066.8	4066.8	4030.2	4034.9	4030.2	3957.4	3916.2	3939.1	3861.6	3866.1
20°	4062.2	4002.9	4012.0	3971.0	3975.6	3971.0	3893.5	3852.5	3875.2	3793.2	3802.4
22.5°	3957.4	3902.6	3911.8	3875.2	3875.2	3870.8	3797.8	3756.8	3779.5	3697.5	3702.0
25°	3825.1	3770.4	3779.5	3743.0	3747.6	3747.6	3674.6	3629.1	3651.9	3578.9	3578.9
27.5°	3651.9	3597.1	3610.9	3588.0	3574.4	3578.9	3515.1	3469.5	3492.2	3423.9	3423.9
30°	3428.5	3382.9	3396.5	3378.4	3364.6	3364.6	3309.9	3264.4	3287.1	3227.9	3223.2
32.5°	3164.0	3127.6	3141.2	3127.6	3113.9	3127.6	3068.2	3022.8	3045.5	2999.9	3004.5
35°	2876.9	2840.4	2849.5	2835.8	2826.6	2835.8	2776.5	2744.6	2767.4	2721.8	2740.0
37.5°	2557.6	2493.9	2521.2	2512.1	2503.0	2507.5	2452.9	2430.0	2457.4	2430.0	2443.8
40°	2183.9	2138.2	2156.5	2147.4	2138.2	2161.0	2120.0	2088.1	2110.9	2092.6	2120.0
42.5°	1778.1	1741.6	1764.4	1759.9	1746.1	1773.5	1741.6	1718.8	1755.2	1746.1	1769.0
45°	1367.8	1340.4	1358.6	1358.6	1354.1	1376.9	1345.0	1349.5	1386.0	1399.6	1427.0
47.5°	989.4	948.2	971.1	984.8	984.8	1007.6	989.4	1007.6	1048.6	1076.0	1098.8
50°	674.8	665.6	670.2	674.8	683.9	702.1	697.5	724.9	752.2	797.9	825.2
52.5°	446.8	437.6	446.8	451.4	460.5	478.8	478.8	510.6	542.5	583.6	615.5
55°	278.1	273.5	278.1	282.6	291.8	310.0	314.6	346.5	378.4	419.5	446.8
57.5°	159.6	164.1	164.1	173.2	177.8	191.5	205.1	223.4	259.9	300.9	328.2
60°	91.1	91.1	95.8	100.2	104.9	118.5	127.6	145.9	173.2	214.2	232.5
62.5°	59.2	59.2	63.9	63.9	68.4	77.5	86.6	104.9	127.6	159.6	177.8
65°	50.1	50.1	50.1	54.8	54.8	63.9	73.0	86.6	104.9	127.6	145.9
67.5°	41.0	41.0	41.0	45.6	45.6	50.1	59.2	68.4	82.1	100.2	114.0
70°	31.9	31.9	31.9	36.5	36.5	41.0	45.6	50.1	63.9	77.5	86.6
72.5°	22.8	22.8	27.4	27.4	27.4	31.9	36.5	41.0	50.1	59.2	63.9
75°	18.2	18.2	18.2	18.2	22.8	22.8	27.4	31.9	36.5	41.0	45.6
77.5°	9.1	9.1	13.6	13.6	13.6	18.2	18.2	22.8	27.4	31.9	31.9
80°	9.1	9.1	9.1	9.1	9.1	13.6	13.6	13.6	18.2	22.8	22.8
82.5°	4.5	4.5	4.5	4.5	4.5	9.1	9.1	9.1	13.6	13.6	13.6
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.1	9.1	9.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	4.5	4.5	4.5
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: P212837

CATALOG NUMBER: LE\_6B50D010R EC6B30508035 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3857.0	3870.8	3870.8	3857.0	3820.5	3852.5	3884.4	3852.5	3893.5	3820.5	3820.5
5°	3857.0	3866.1	3861.6	3843.4	3806.9	3834.2	3857.0	3825.1	3857.0	3788.6	3784.1
7.5°	3866.1	3857.0	3847.9	3825.1	3779.5	3797.8	3820.5	3784.1	3816.0	3743.0	3733.9
10°	3847.9	3834.2	3816.0	3784.1	3733.9	3747.6	3761.2	3729.4	3752.1	3679.2	3674.6
12.5°	3847.9	3825.1	3797.8	3761.2	3706.6	3715.8	3729.4	3688.4	3706.6	3638.2	3629.1
15°	3857.0	3816.0	3784.1	3743.0	3683.8	3688.4	3697.5	3651.9	3670.1	3597.1	3592.6
17.5°	3825.1	3779.5	3747.6	3697.5	3633.6	3638.2	3638.2	3592.6	3606.2	3533.4	3528.8
20°	3756.8	3702.0	3665.5	3620.0	3551.6	3551.6	3551.6	3506.0	3515.1	3451.2	3442.1
22.5°	3661.0	3601.8	3565.2	3519.6	3455.9	3451.2	3446.8	3410.2	3410.2	3351.0	3337.2
25°	3533.4	3478.6	3442.1	3401.1	3337.2	3328.1	3328.1	3296.2	3291.8	3237.0	3227.9
27.5°	3387.5	3323.6	3291.8	3255.2	3196.0	3186.9	3182.2	3164.0	3154.9	3095.6	3091.1
30°	3191.4	3136.8	3109.4	3077.4	3022.8	3013.6	3009.0	2990.8	2986.2	2927.0	2927.0
32.5°	2981.6	2913.2	2895.0	2863.1	2822.1	2817.5	2822.1	2799.2	2781.1	2740.0	2730.9
35°	2730.9	2662.5	2648.9	2635.1	2603.2	2594.1	2589.6	2585.0	2562.2	2534.9	2521.2
37.5°	2439.1	2379.9	2379.9	2375.2	2352.5	2352.5	2352.5	2343.4	2320.6	2311.5	2284.1
40°	2124.5	2079.0	2083.5	2088.1	2079.0	2083.5	2088.1	2079.0	2060.8	2051.6	2028.9
42.5°	1787.1	1764.4	1782.6	1796.2	1796.2	1810.0	1819.1	1819.1	1796.2	1791.8	1773.5
45°	1449.8	1445.2	1481.8	1509.1	1518.2	1541.0	1554.6	1545.5	1545.5	1545.5	1527.2
47.5°	1135.2	1153.5	1185.4	1240.1	1258.4	1285.6	1294.8	1308.5	1303.9	1308.5	1294.8
50°	861.6	902.8	943.8	998.5	1025.8	1057.8	1071.4	1089.6	1089.6	1094.2	1085.1
52.5°	652.0	683.9	752.2	788.8	820.6	852.5	870.8	889.0	893.6	893.6	884.5
55°	483.2	528.9	574.5	624.6	652.0	683.9	697.5	715.8	715.8	724.9	715.8
57.5°	351.0	396.6	446.8	483.2	515.1	538.0	551.6	565.4	574.5	574.5	569.9
60°	259.9	296.4	337.4	373.9	401.2	424.0	433.1	446.8	451.4	451.4	442.2
62.5°	196.0	232.5	269.0	300.9	319.1	337.4	346.5	355.6	355.6	355.6	351.0
65°	159.6	186.9	214.2	241.6	259.9	273.5	278.1	287.2	282.6	287.2	282.6
67.5°	127.6	145.9	168.8	186.9	200.6	209.8	214.2	223.4	218.9	223.4	218.9
70°	95.8	114.0	127.6	141.4	150.5	159.6	164.1	168.8	164.1	168.8	164.1
72.5°	73.0	82.1	95.8	109.4	114.0	118.5	123.1	123.1	123.1	127.6	123.1
75°	50.1	59.2	68.4	73.0	82.1	86.6	86.6	91.1	91.1	91.1	91.1
77.5°	36.5	41.0	45.6	50.1	54.8	59.2	59.2	63.9	63.9	63.9	63.9
80°	22.8	27.4	27.4	31.9	36.5	36.5	41.0	41.0	41.0	41.0	41.0
82.5°	13.6	18.2	18.2	22.8	22.8	22.8	27.4	27.4	27.4	27.4	27.4
85°	9.1	9.1	9.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	9.1	9.1	4.5	4.5
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: P212837

CATALOG NUMBER: LE\_6B50D010R EC6B30508035 6LBSWLI1

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	3916.2	3916.2	3916.2	3916.2
2.5°	3857.0	3834.2	3870.8	3816.0
5°	3816.0	3793.2	3838.8	3770.4
7.5°	3765.9	3743.0	3784.1	3715.8
10°	3702.0	3679.2	3715.8	3642.8
12.5°	3647.2	3624.5	3665.5	3597.1
15°	3606.2	3583.5	3620.0	3556.1
17.5°	3542.5	3515.1	3556.1	3487.8
20°	3451.2	3433.0	3465.0	3396.5
22.5°	3346.4	3328.1	3364.6	3296.2
25°	3237.0	3214.2	3250.6	3182.2
27.5°	3095.6	3077.4	3113.9	3045.5
30°	2927.0	2908.8	2945.2	2881.4
32.5°	2735.5	2717.2	2744.6	2689.9
35°	2516.6	2503.0	2530.4	2471.0
37.5°	2279.6	2265.9	2293.2	2234.0
40°	2024.2	2010.6	2033.4	2006.0
42.5°	1773.5	1759.9	1782.6	1759.9
45°	1527.2	1518.2	1541.0	1518.2
47.5°	1299.4	1290.2	1313.0	1290.2
50°	1080.5	1085.1	1094.2	1085.1
52.5°	884.5	884.5	898.1	884.5
55°	715.8	720.4	724.9	715.8
57.5°	569.9	569.9	574.5	569.9
60°	442.2	446.8	446.8	442.2
62.5°	351.0	351.0	351.0	351.0
65°	278.1	278.1	282.6	278.1
67.5°	218.9	214.2	218.9	214.2
70°	164.1	164.1	164.1	164.1
72.5°	127.6	127.6	123.1	123.1
75°	91.1	95.8	91.1	91.1
77.5°	63.9	63.9	63.9	63.9
80°	41.0	41.0	41.0	41.0
82.5°	27.4	27.4	27.4	27.4
85°	18.2	13.6	13.6	13.6
87.5°	9.1	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°

























(END OF REPORT)