

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: P212788

Luminaire Tested: **LE\_6B15D010 EC6B10209024 6LBSWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212788  
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\_6B15D010 EC6B10209024 6LBSWL11  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1265.8 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

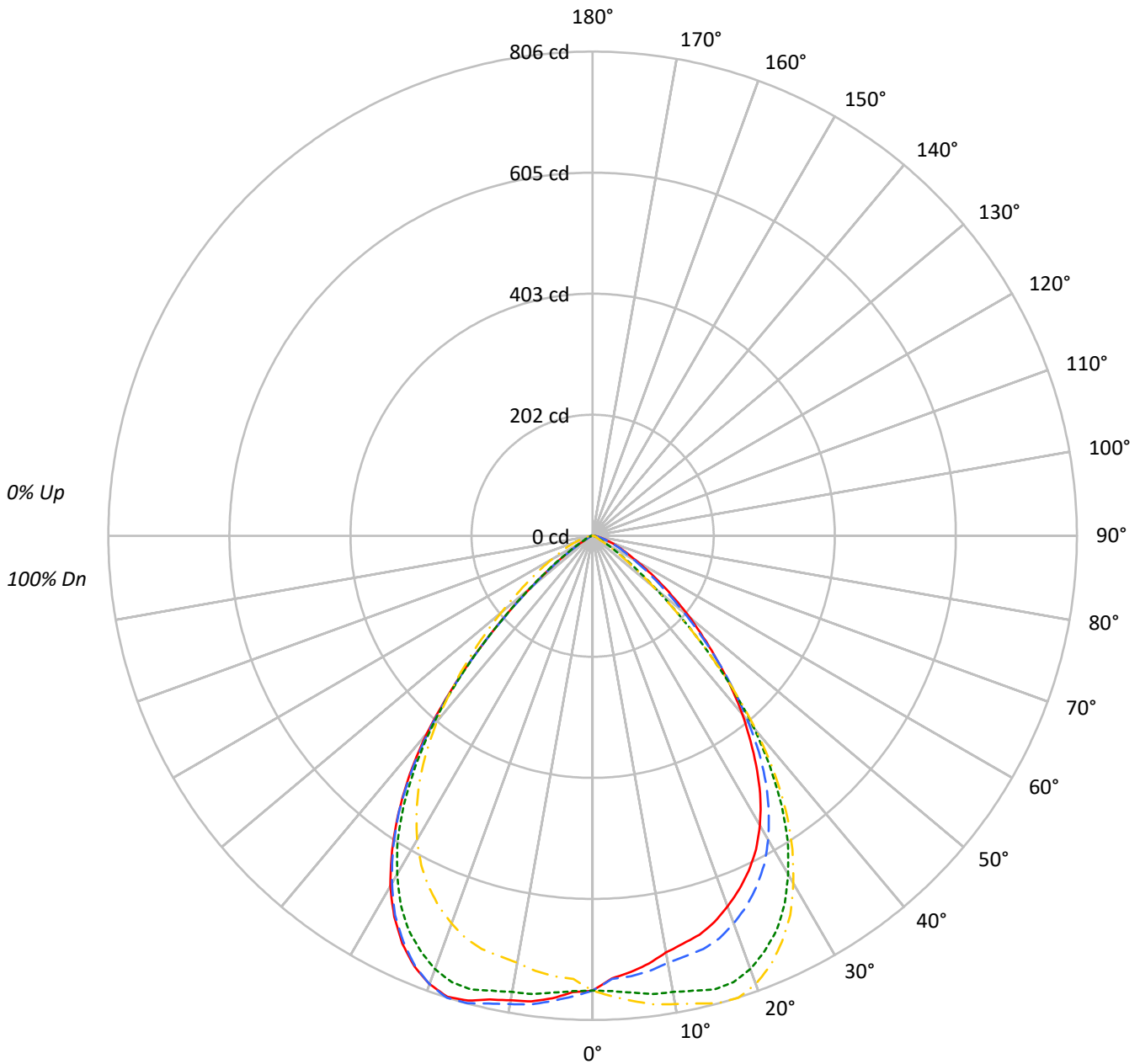
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

### Luminous Intensity Polar Plot





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CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**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	98	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	70	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°	41504	41504	41504	41504
5°	40111	41999	42532	41999
10°	39200	42924	43709	42924
15°	39018	44370	45466	44370
20°	38305	44781	46327	44781
25°	37206	43823	45311	43823
30°	35259	41171	42627	41171
35°	31962	36687	37684	36687
40°	27752	29899	30657	29899
45°	22754	20630	20770	20630
50°	17893	11582	11351	11582
55°	13228	5725	5142	5725
60°	9374	2511	1842	2511
65°	6979	1608	1154	1608
70°	5097	1266	833	1266
75°	3728	932	551	932
80°	2494	821	284	821
85°	1635	566	566	566



TEST NUMBER: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWLI1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	5.7
10°-20°	214.7	17.0
20°-30°	320.3	25.3
30°-40°	329.1	26.0
40°-50°	213.1	16.8
50°-60°	79.3	6.3
60°-70°	26.0	2.1
70°-80°	9.2	0.7
80°-90°	1.6	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°	607.5	48.0
0°-40°	936.6	74.0
0°-60°	1228.9	97.1
0°-90°	1265.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	757	757	757	757	757	
5°	729	763	773	763	729	69
15°	688	782	801	782	688	193
25°	615	724	749	724	615	282
35°	478	548	563	548	478	297
45°	294	266	268	266	294	227
55°	138	60	54	60	138	126
65°	54	12	9	12	54	55
75°	18	4	3	4	18	19
85°	3	1	1	1	3	3
90°	0	0	0	0	0	



TEST NUMBER: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	737.6	748.2	741.2	745.6	738.5	738.5	752.6	744.8	750.9	744.8	738.5
5°	728.9	742.1	733.2	737.6	731.5	732.4	745.6	739.5	745.6	741.2	735.9
7.5°	718.2	731.5	723.6	728.0	721.9	723.6	737.6	731.5	738.5	734.1	730.6
10°	704.2	718.2	711.2	715.6	710.4	711.2	725.4	720.9	727.1	724.5	721.9
12.5°	695.4	708.6	700.6	705.1	701.5	703.2	716.5	713.0	720.9	718.2	716.5
15°	687.5	699.8	692.8	697.1	694.5	695.4	709.5	706.0	714.8	713.0	712.1
17.5°	674.2	687.5	679.5	684.8	682.1	683.0	697.1	694.5	703.2	703.2	702.4
20°	656.6	669.9	663.6	667.1	665.4	667.1	679.5	677.8	686.6	686.6	686.6
22.5°	637.2	650.4	643.4	646.9	645.1	647.8	659.2	659.2	666.2	667.1	668.0
25°	615.1	628.4	621.4	625.8	624.0	625.8	636.4	637.2	643.4	643.4	645.1
27.5°	588.8	602.0	594.9	598.4	597.5	598.4	609.9	611.6	615.1	616.0	617.9
30°	557.0	569.4	562.2	565.9	565.9	565.9	577.2	578.1	581.6	582.6	584.4
32.5°	520.0	530.6	525.2	528.8	527.9	529.6	537.6	541.1	545.5	544.6	545.5
35°	477.6	489.1	483.9	486.5	487.4	490.0	495.2	499.8	500.6	501.5	503.2
37.5°	431.9	443.4	438.0	440.6	441.5	446.9	448.6	453.0	454.8	454.8	454.8
40°	387.8	393.1	388.6	391.4	392.2	396.6	398.4	401.9	403.6	402.8	401.9
42.5°	340.2	344.6	340.2	342.9	342.9	346.4	347.2	351.6	351.6	349.9	347.2
45°	293.5	297.9	293.5	295.2	295.2	298.8	298.8	298.8	300.5	297.9	293.5
47.5°	249.4	253.9	249.4	251.1	250.2	253.0	252.1	253.0	250.2	248.5	243.2
50°	209.8	211.5	209.8	208.9	209.8	211.5	210.6	210.6	207.1	204.5	198.2
52.5°	171.0	173.6	171.0	171.0	171.0	172.8	172.8	171.9	168.4	164.8	158.6
55°	138.4	140.1	139.2	138.4	138.4	140.1	138.4	138.4	134.9	132.2	126.0
57.5°	110.1	111.0	110.1	110.1	110.1	111.0	111.0	109.2	106.6	104.0	99.6
60°	85.5	86.4	86.4	85.5	85.5	87.2	87.2	86.4	83.8	82.0	77.5
62.5°	67.9	67.9	67.9	67.9	67.9	68.8	68.8	68.8	67.0	65.2	61.8
65°	53.8	54.6	53.8	53.8	54.6	55.5	54.6	55.5	53.8	52.9	50.2
67.5°	41.4	42.2	41.4	42.2	42.2	43.1	42.2	43.1	41.4	40.5	38.8
70°	31.8	31.8	31.8	31.8	31.8	32.6	31.8	32.6	31.8	30.9	29.1
72.5°	23.8	23.8	24.6	24.6	23.8	24.6	23.8	23.8	23.8	22.9	22.0
75°	17.6	17.6	18.5	17.6	17.6	17.6	17.6	17.6	16.8	16.8	15.9
77.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	11.5	11.5	10.6
80°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.0	7.0
82.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.4	4.4
85°	2.6	2.6	2.6	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.9	0.9	0.9	1.8	0.9	0.9	1.8	1.8	0.9	0.9	0.9
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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	745.6	748.2	748.2	745.6	751.8	746.5	757.1	747.4	750.0	758.9	758.0
5°	743.0	746.5	747.4	745.6	753.5	749.1	759.8	750.0	754.4	763.2	763.2
7.5°	739.5	743.9	745.6	747.4	754.4	750.0	762.4	752.6	758.9	769.4	768.5
10°	731.5	737.6	741.2	743.9	750.9	748.2	761.5	753.5	758.9	771.1	770.2
12.5°	727.1	734.1	739.5	743.9	751.8	750.0	763.2	756.2	763.2	775.6	775.6
15°	723.6	731.5	737.6	745.6	753.5	751.8	765.9	759.8	766.8	781.8	780.9
17.5°	714.8	724.5	730.6	739.5	747.4	746.5	761.5	757.1	765.0	779.1	780.0
20°	699.8	708.6	715.6	726.2	735.0	733.2	749.1	744.8	752.6	767.6	768.5
22.5°	680.4	689.2	696.2	707.8	715.6	714.8	730.6	726.2	734.1	748.2	749.1
25°	657.5	665.4	672.5	683.0	691.9	691.9	706.0	701.5	710.4	724.5	724.5
27.5°	629.2	636.4	642.5	654.9	661.9	661.9	675.1	670.8	679.5	691.9	691.0
30°	594.9	601.1	606.4	616.9	623.1	624.0	635.5	631.0	639.9	650.4	650.4
32.5°	553.5	559.6	563.1	576.4	580.8	579.9	588.8	584.4	593.1	604.6	602.0
35°	509.4	512.0	514.8	527.9	529.6	526.1	535.0	530.6	536.8	548.2	546.4
37.5°	459.1	460.0	460.0	471.5	472.4	469.8	475.0	469.8	474.1	484.8	483.9
40°	403.6	402.8	401.9	410.8	409.9	404.5	408.0	403.6	409.9	417.8	413.4
42.5°	347.2	344.6	341.1	345.5	342.0	337.5	339.4	332.2	336.6	342.9	337.5
45°	291.8	286.4	279.4	280.2	275.9	270.6	267.9	260.9	260.0	266.1	261.8
47.5°	239.8	229.1	223.0	219.5	212.4	208.0	202.8	194.8	191.2	194.8	190.4
50°	193.0	182.4	174.5	166.6	159.5	154.2	145.4	140.1	134.9	135.8	132.2
52.5°	152.5	145.4	132.2	126.0	119.0	112.8	104.9	98.8	92.5	92.5	89.0
55°	120.8	111.0	102.2	93.4	86.4	81.1	73.1	67.0	60.8	59.9	56.4
57.5°	93.4	86.4	76.6	67.9	63.5	58.1	50.2	43.1	39.6	37.0	34.4
60°	72.2	65.2	57.2	50.2	45.0	41.4	33.5	28.2	24.6	22.9	20.2
62.5°	58.1	52.0	45.0	37.9	34.4	30.9	24.6	20.2	16.8	15.0	13.2
65°	46.8	41.4	36.1	30.9	28.2	24.6	20.2	16.8	14.1	12.4	10.6
67.5°	36.1	32.6	28.2	24.6	22.0	19.4	15.9	13.2	11.5	9.8	8.9
70°	27.4	24.6	22.0	18.5	16.8	15.0	12.4	9.8	8.9	7.9	7.0
72.5°	21.1	18.5	15.9	14.1	12.4	11.5	9.8	7.9	7.0	6.1	5.2
75°	14.1	13.2	11.5	9.8	8.9	7.9	7.0	6.1	5.2	4.4	4.4
77.5°	9.8	8.9	7.9	7.0	6.1	6.1	5.2	4.4	3.5	3.5	2.6
80°	6.1	5.2	5.2	4.4	4.4	4.4	3.5	2.6	2.6	2.6	1.8
82.5°	4.4	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	0.9
85°	2.6	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	750.9	758.9	758.9	765.9	766.8	765.0	757.1	757.1	767.6	773.9	763.2
5°	758.0	765.9	765.9	772.9	776.5	773.9	765.9	766.8	777.4	784.4	773.9
7.5°	764.1	772.0	773.9	781.8	784.4	781.8	773.9	775.6	787.0	793.2	782.6
10°	766.8	774.8	775.6	784.4	787.9	784.4	778.2	779.1	791.5	795.9	786.1
12.5°	772.9	780.9	780.9	790.5	794.1	791.5	783.5	785.2	797.6	802.0	792.4
15°	779.1	787.0	787.0	797.6	802.0	798.5	792.4	793.2	805.5	810.0	802.0
17.5°	779.1	786.1	786.1	797.6	802.0	799.4	792.4	793.2	806.4	810.0	802.0
20°	767.6	775.6	773.9	785.2	789.6	787.0	780.9	780.9	794.1	797.6	789.6
22.5°	749.1	756.2	754.4	765.0	770.2	766.8	761.5	760.6	773.9	777.4	769.4
25°	723.6	730.6	728.9	739.5	744.8	740.4	734.1	735.0	745.6	750.9	743.9
27.5°	693.6	698.0	695.4	706.0	711.2	706.9	700.6	701.5	712.1	715.6	710.4
30°	653.1	656.6	654.0	662.8	666.2	663.6	658.4	658.4	668.0	672.5	667.1
32.5°	604.6	607.2	604.6	611.6	618.8	613.4	608.1	608.1	618.8	622.2	616.0
35°	548.2	550.9	549.1	556.1	561.4	554.4	550.0	548.2	562.2	560.5	557.0
37.5°	485.6	487.4	482.1	494.4	497.1	489.1	485.6	483.9	496.2	495.2	491.8
40°	415.1	416.9	413.4	422.1	423.0	416.9	414.2	411.6	423.9	423.0	420.4
42.5°	340.2	341.1	336.6	343.8	345.5	339.4	338.4	334.9	346.4	344.6	343.8
45°	262.6	262.6	259.1	264.4	266.1	260.9	259.1	258.2	266.1	266.1	264.4
47.5°	190.4	187.8	183.4	191.2	192.1	188.6	187.8	185.1	193.0	193.0	191.2
50°	130.5	129.5	128.6	130.5	131.4	126.9	129.5	126.9	131.4	131.4	131.4
52.5°	87.2	86.4	84.6	86.4	86.4	83.8	83.8	82.9	86.4	86.4	84.6
55°	54.6	53.8	52.9	53.8	53.8	51.1	52.9	51.1	52.9	52.9	52.0
57.5°	33.5	31.8	31.8	30.9	30.9	29.1	30.0	30.0	30.0	30.0	30.0
60°	19.4	18.5	17.6	17.6	17.6	16.8	16.8	16.8	16.8	16.8	16.8
62.5°	12.4	12.4	11.5	11.5	11.5	11.5	11.5	10.6	11.5	11.5	11.5
65°	10.6	9.8	9.8	9.8	9.8	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	8.9	7.9	7.9	7.9	7.9	7.0	7.0	7.0	7.0	7.0	7.0
70°	7.0	6.1	6.1	6.1	6.1	6.1	5.2	6.1	6.1	5.2	5.2
72.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	3.5	3.5	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.6	2.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.0	0.9	0.0	0.9	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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	775.6	766.8	762.4	771.1	774.8	770.2	766.8	760.6	766.8	770.2	774.8
5°	786.1	778.2	774.8	780.9	786.1	781.8	779.1	772.9	779.1	781.8	786.1
7.5°	795.9	787.9	783.5	789.6	795.9	789.6	787.0	781.8	787.0	789.6	795.9
10°	799.4	790.5	787.0	792.4	798.5	792.4	788.8	785.2	788.8	792.4	798.5
12.5°	805.5	796.8	792.4	796.8	802.9	796.8	793.2	790.5	793.2	796.8	802.9
15°	814.4	806.4	801.1	805.5	813.5	806.4	802.0	801.1	802.0	806.4	813.5
17.5°	814.4	808.1	802.9	806.4	814.4	809.1	802.9	804.6	802.9	809.1	814.4
20°	802.9	796.8	792.4	792.4	803.8	796.8	791.5	794.1	791.5	796.8	803.8
22.5°	782.6	777.4	772.9	772.0	783.5	777.4	770.2	775.6	770.2	777.4	783.5
25°	756.2	750.9	747.4	745.6	757.1	750.0	743.9	749.1	743.9	750.0	757.1
27.5°	721.9	717.4	713.9	711.2	721.9	715.6	709.5	714.8	709.5	715.6	721.9
30°	677.8	675.1	671.6	668.0	678.6	672.5	666.2	673.4	666.2	672.5	678.6
32.5°	626.6	624.9	620.5	616.9	627.5	620.5	616.0	621.4	616.0	620.5	627.5
35°	567.6	565.0	562.2	556.1	567.6	561.4	561.4	563.1	561.4	561.4	567.6
37.5°	501.5	499.8	496.2	490.9	500.6	496.2	494.4	499.8	494.4	496.2	500.6
40°	427.5	426.6	423.9	417.8	428.4	423.9	421.2	428.4	421.2	423.9	428.4
42.5°	349.9	348.1	345.5	344.6	349.9	346.4	349.0	349.0	349.0	346.4	349.9
45°	269.8	267.9	266.1	262.6	268.8	267.0	266.1	267.9	266.1	267.0	268.8
47.5°	195.6	193.9	192.1	189.5	195.6	193.0	193.0	194.8	193.0	193.0	195.6
50°	131.4	132.2	131.4	129.5	131.4	130.5	131.4	133.1	131.4	130.5	131.4
52.5°	87.2	87.2	85.5	84.6	86.4	85.5	88.1	86.4	88.1	85.5	86.4
55°	52.9	53.8	52.9	52.0	52.9	52.0	54.6	53.8	54.6	52.0	52.9
57.5°	30.0	30.0	30.9	30.0	31.8	30.9	30.9	30.9	30.9	30.9	31.8
60°	16.8	16.8	16.8	16.8	16.8	16.8	17.6	16.8	17.6	16.8	16.8
62.5°	11.5	11.5	11.5	10.6	11.5	10.6	11.5	11.5	11.5	10.6	11.5
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	771.1	762.4	766.8	775.6	763.2	773.9	767.6	757.1	757.1	765.0	766.8
5°	780.9	774.8	778.2	786.1	773.9	784.4	777.4	766.8	765.9	773.9	776.5
7.5°	789.6	783.5	787.9	795.9	782.6	793.2	787.0	775.6	773.9	781.8	784.4
10°	792.4	787.0	790.5	799.4	786.1	795.9	791.5	779.1	778.2	784.4	787.9
12.5°	796.8	792.4	796.8	805.5	792.4	802.0	797.6	785.2	783.5	791.5	794.1
15°	805.5	801.1	806.4	814.4	802.0	810.0	805.5	793.2	792.4	798.5	802.0
17.5°	806.4	802.9	808.1	814.4	802.0	810.0	806.4	793.2	792.4	799.4	802.0
20°	792.4	792.4	796.8	802.9	789.6	797.6	794.1	780.9	780.9	787.0	789.6
22.5°	772.0	772.9	777.4	782.6	769.4	777.4	773.9	760.6	761.5	766.8	770.2
25°	745.6	747.4	750.9	756.2	743.9	750.9	745.6	735.0	734.1	740.4	744.8
27.5°	711.2	713.9	717.4	721.9	710.4	715.6	712.1	701.5	700.6	706.9	711.2
30°	668.0	671.6	675.1	677.8	667.1	672.5	668.0	658.4	658.4	663.6	666.2
32.5°	616.9	620.5	624.9	626.6	616.0	622.2	618.8	608.1	608.1	613.4	618.8
35°	556.1	562.2	565.0	567.6	557.0	560.5	562.2	548.2	550.0	554.4	561.4
37.5°	490.9	496.2	499.8	501.5	491.8	495.2	496.2	483.9	485.6	489.1	497.1
40°	417.8	423.9	426.6	427.5	420.4	423.0	423.9	411.6	414.2	416.9	423.0
42.5°	344.6	345.5	348.1	349.9	343.8	344.6	346.4	334.9	338.4	339.4	345.5
45°	262.6	266.1	267.9	269.8	264.4	266.1	266.1	258.2	259.1	260.9	266.1
47.5°	189.5	192.1	193.9	195.6	191.2	193.0	193.0	185.1	187.8	188.6	192.1
50°	129.5	131.4	132.2	131.4	131.4	131.4	131.4	126.9	129.5	126.9	131.4
52.5°	84.6	85.5	87.2	87.2	84.6	86.4	86.4	82.9	83.8	83.8	86.4
55°	52.0	52.9	53.8	52.9	52.0	52.9	52.9	51.1	52.9	51.1	53.8
57.5°	30.0	30.9	30.0	30.0	30.0	30.0	30.0	30.0	30.0	29.1	30.9
60°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	17.6
62.5°	10.6	11.5	11.5	11.5	11.5	11.5	11.5	10.6	11.5	11.5	11.5
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	9.8
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.9
70°	5.2	5.2	5.2	5.2	5.2	5.2	6.1	6.1	5.2	6.1	6.1
72.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.0	0.9
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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	765.9	758.9	758.9	750.9	758.0	758.9	750.0	747.4	757.1	746.5	751.8
5°	772.9	765.9	765.9	758.0	763.2	763.2	754.4	750.0	759.8	749.1	753.5
7.5°	781.8	773.9	772.0	764.1	768.5	769.4	758.9	752.6	762.4	750.0	754.4
10°	784.4	775.6	774.8	766.8	770.2	771.1	758.9	753.5	761.5	748.2	750.9
12.5°	790.5	780.9	780.9	772.9	775.6	775.6	763.2	756.2	763.2	750.0	751.8
15°	797.6	787.0	787.0	779.1	780.9	781.8	766.8	759.8	765.9	751.8	753.5
17.5°	797.6	786.1	786.1	779.1	780.0	779.1	765.0	757.1	761.5	746.5	747.4
20°	785.2	773.9	775.6	767.6	768.5	767.6	752.6	744.8	749.1	733.2	735.0
22.5°	765.0	754.4	756.2	749.1	749.1	748.2	734.1	726.2	730.6	714.8	715.6
25°	739.5	728.9	730.6	723.6	724.5	724.5	710.4	701.5	706.0	691.9	691.9
27.5°	706.0	695.4	698.0	693.6	691.0	691.9	679.5	670.8	675.1	661.9	661.9
30°	662.8	654.0	656.6	653.1	650.4	650.4	639.9	631.0	635.5	624.0	623.1
32.5°	611.6	604.6	607.2	604.6	602.0	604.6	593.1	584.4	588.8	579.9	580.8
35°	556.1	549.1	550.9	548.2	546.4	548.2	536.8	530.6	535.0	526.1	529.6
37.5°	494.4	482.1	487.4	485.6	483.9	484.8	474.1	469.8	475.0	469.8	472.4
40°	422.1	413.4	416.9	415.1	413.4	417.8	409.9	403.6	408.0	404.5	409.9
42.5°	343.8	336.6	341.1	340.2	337.5	342.9	336.6	332.2	339.4	337.5	342.0
45°	264.4	259.1	262.6	262.6	261.8	266.1	260.0	260.9	267.9	270.6	275.9
47.5°	191.2	183.4	187.8	190.4	190.4	194.8	191.2	194.8	202.8	208.0	212.4
50°	130.5	128.6	129.5	130.5	132.2	135.8	134.9	140.1	145.4	154.2	159.5
52.5°	86.4	84.6	86.4	87.2	89.0	92.5	92.5	98.8	104.9	112.8	119.0
55°	53.8	52.9	53.8	54.6	56.4	59.9	60.8	67.0	73.1	81.1	86.4
57.5°	30.9	31.8	31.8	33.5	34.4	37.0	39.6	43.1	50.2	58.1	63.5
60°	17.6	17.6	18.5	19.4	20.2	22.9	24.6	28.2	33.5	41.4	45.0
62.5°	11.5	11.5	12.4	12.4	13.2	15.0	16.8	20.2	24.6	30.9	34.4
65°	9.8	9.8	9.8	10.6	10.6	12.4	14.1	16.8	20.2	24.6	28.2
67.5°	7.9	7.9	7.9	8.9	8.9	9.8	11.5	13.2	15.9	19.4	22.0
70°	6.1	6.1	6.1	7.0	7.0	7.9	8.9	9.8	12.4	15.0	16.8
72.5°	4.4	4.4	5.2	5.2	5.2	6.1	7.0	7.9	9.8	11.5	12.4
75°	3.5	3.5	3.5	3.5	4.4	4.4	5.2	6.1	7.0	7.9	8.9
77.5°	1.8	1.8	2.6	2.6	2.6	3.5	3.5	4.4	5.2	6.1	6.1
80°	1.8	1.8	1.8	1.8	1.8	2.6	2.6	2.6	3.5	4.4	4.4
82.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	2.6	2.6	2.6
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	745.6	748.2	748.2	745.6	738.5	744.8	750.9	744.8	752.6	738.5	738.5
5°	745.6	747.4	746.5	743.0	735.9	741.2	745.6	739.5	745.6	732.4	731.5
7.5°	747.4	745.6	743.9	739.5	730.6	734.1	738.5	731.5	737.6	723.6	721.9
10°	743.9	741.2	737.6	731.5	721.9	724.5	727.1	720.9	725.4	711.2	710.4
12.5°	743.9	739.5	734.1	727.1	716.5	718.2	720.9	713.0	716.5	703.2	701.5
15°	745.6	737.6	731.5	723.6	712.1	713.0	714.8	706.0	709.5	695.4	694.5
17.5°	739.5	730.6	724.5	714.8	702.4	703.2	703.2	694.5	697.1	683.0	682.1
20°	726.2	715.6	708.6	699.8	686.6	686.6	686.6	677.8	679.5	667.1	665.4
22.5°	707.8	696.2	689.2	680.4	668.0	667.1	666.2	659.2	659.2	647.8	645.1
25°	683.0	672.5	665.4	657.5	645.1	643.4	643.4	637.2	636.4	625.8	624.0
27.5°	654.9	642.5	636.4	629.2	617.9	616.0	615.1	611.6	609.9	598.4	597.5
30°	616.9	606.4	601.1	594.9	584.4	582.6	581.6	578.1	577.2	565.9	565.9
32.5°	576.4	563.1	559.6	553.5	545.5	544.6	545.5	541.1	537.6	529.6	527.9
35°	527.9	514.8	512.0	509.4	503.2	501.5	500.6	499.8	495.2	490.0	487.4
37.5°	471.5	460.0	460.0	459.1	454.8	454.8	454.8	453.0	448.6	446.9	441.5
40°	410.8	401.9	402.8	403.6	401.9	402.8	403.6	401.9	398.4	396.6	392.2
42.5°	345.5	341.1	344.6	347.2	347.2	349.9	351.6	351.6	347.2	346.4	342.9
45°	280.2	279.4	286.4	291.8	293.5	297.9	300.5	298.8	298.8	298.8	295.2
47.5°	219.5	223.0	229.1	239.8	243.2	248.5	250.2	253.0	252.1	253.0	250.2
50°	166.6	174.5	182.4	193.0	198.2	204.5	207.1	210.6	210.6	211.5	209.8
52.5°	126.0	132.2	145.4	152.5	158.6	164.8	168.4	171.9	172.8	172.8	171.0
55°	93.4	102.2	111.0	120.8	126.0	132.2	134.9	138.4	138.4	140.1	138.4
57.5°	67.9	76.6	86.4	93.4	99.6	104.0	106.6	109.2	111.0	111.0	110.1
60°	50.2	57.2	65.2	72.2	77.5	82.0	83.8	86.4	87.2	87.2	85.5
62.5°	37.9	45.0	52.0	58.1	61.8	65.2	67.0	68.8	68.8	68.8	67.9
65°	30.9	36.1	41.4	46.8	50.2	52.9	53.8	55.5	54.6	55.5	54.6
67.5°	24.6	28.2	32.6	36.1	38.8	40.5	41.4	43.1	42.2	43.1	42.2
70°	18.5	22.0	24.6	27.4	29.1	30.9	31.8	32.6	31.8	32.6	31.8
72.5°	14.1	15.9	18.5	21.1	22.0	22.9	23.8	23.8	23.8	24.6	23.8
75°	9.8	11.5	13.2	14.1	15.9	16.8	16.8	17.6	17.6	17.6	17.6
77.5°	7.0	7.9	8.9	9.8	10.6	11.5	11.5	12.4	12.4	12.4	12.4
80°	4.4	5.2	5.2	6.1	7.0	7.0	7.9	7.9	7.9	7.9	7.9
82.5°	2.6	3.5	3.5	4.4	4.4	4.4	5.2	5.2	5.2	5.2	5.2
85°	1.8	1.8	1.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	0.9	0.9
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: P212788

CATALOG NUMBER: LE\_6B15D010 EC6B10209024 6LBSWL11

**CANDELA DISTRIBUTION (continued):**

	345°	350°	355°	360°
0°	757.1	757.1	757.1	757.1
2.5°	745.6	741.2	748.2	737.6
5°	737.6	733.2	742.1	728.9
7.5°	728.0	723.6	731.5	718.2
10°	715.6	711.2	718.2	704.2
12.5°	705.1	700.6	708.6	695.4
15°	697.1	692.8	699.8	687.5
17.5°	684.8	679.5	687.5	674.2
20°	667.1	663.6	669.9	656.6
22.5°	646.9	643.4	650.4	637.2
25°	625.8	621.4	628.4	615.1
27.5°	598.4	594.9	602.0	588.8
30°	565.9	562.2	569.4	557.0
32.5°	528.8	525.2	530.6	520.0
35°	486.5	483.9	489.1	477.6
37.5°	440.6	438.0	443.4	431.9
40°	391.4	388.6	393.1	387.8
42.5°	342.9	340.2	344.6	340.2
45°	295.2	293.5	297.9	293.5
47.5°	251.1	249.4	253.9	249.4
50°	208.9	209.8	211.5	209.8
52.5°	171.0	171.0	173.6	171.0
55°	138.4	139.2	140.1	138.4
57.5°	110.1	110.1	111.0	110.1
60°	85.5	86.4	86.4	85.5
62.5°	67.9	67.9	67.9	67.9
65°	53.8	53.8	54.6	53.8
67.5°	42.2	41.4	42.2	41.4
70°	31.8	31.8	31.8	31.8
72.5°	24.6	24.6	23.8	23.8
75°	17.6	18.5	17.6	17.6
77.5°	12.4	12.4	12.4	12.4
80°	7.9	7.9	7.9	7.9
82.5°	5.2	5.2	5.2	5.2
85°	3.5	2.6	2.6	2.6
87.5°	1.8	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0



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

























(END OF REPORT)