

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P522069

Luminaire Tested: **HLBLV4069FSE010MW-3000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A1914661A001)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLBLV4069FSE010MW-3000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (48) 3000K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

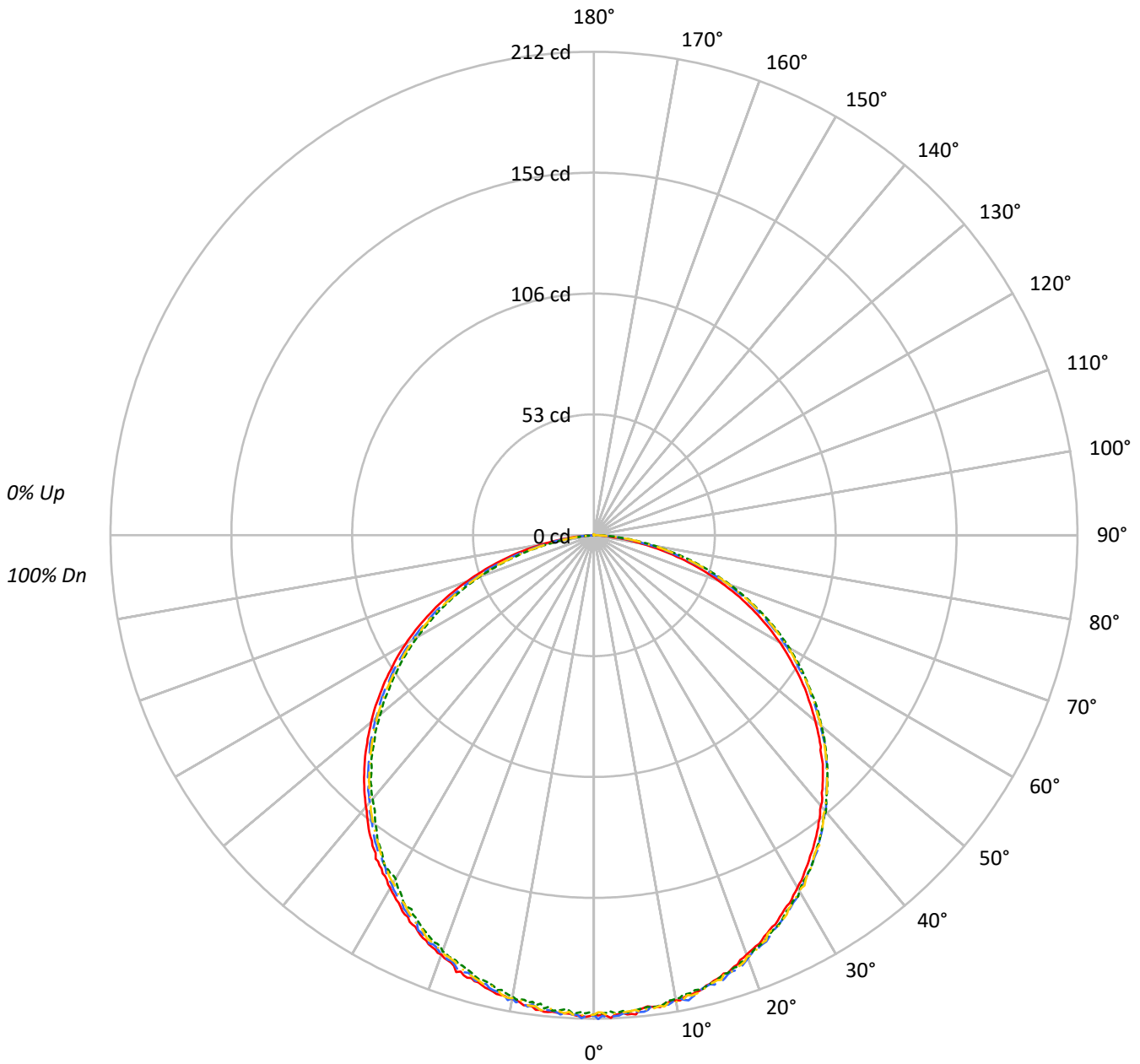
Lumens per Lamp: N/A
Luminaire Lumens: 605.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

Input Watts (W): 8.1
Input Voltage (V): 120
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: P522069
CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

Luminous Intensity Polar Plot



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



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2415	2415	2415	2415
5°	2432	2411	2417	2412
10°	2415	2406	2408	2394
15°	2405	2411	2407	2382
20°	2391	2406	2390	2372
25°	2386	2401	2386	2343
30°	2367	2387	2369	2306
35°	2349	2376	2358	2309
40°	2320	2371	2331	2263
45°	2304	2350	2311	2238
50°	2263	2329	2279	2185
55°	2220	2300	2240	2122
60°	2166	2276	2191	2055
65°	2078	2220	2114	1945
70°	1951	2135	1991	1793
75°	1748	2014	1819	1548
80°	1422	1812	1541	1157
85°	896	1515	1067	540



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	3.3
10°-20°	57.0	9.4
20°-30°	86.6	14.3
30°-40°	104.7	17.3
40°-50°	109.2	18.0
50°-60°	99.3	16.4
60°-70°	76.0	12.6
70°-80°	42.5	7.0
80°-90°	9.6	1.6
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°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	163.5	27.0
0°-40°	268.2	44.3
0°-60°	476.7	78.8
0°-90°	604.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	605.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	210	210	210	210	210	
5°	211	209	210	209	211	20
15°	202	203	202	200	202	57
25°	188	190	188	185	188	87
35°	168	170	168	165	168	105
45°	142	145	142	138	142	109
55°	111	115	112	106	111	99
65°	76	82	78	72	76	76
75°	39	45	41	35	39	42
85°	7	12	8	4	7	9
90°	0	1	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-300K-UNIT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3
0.5°	210.6	210.9	212.2	210.3	209.7	209.5	209.2	210.6	210.8	209.7	211.8
1°	210.3	210.6	210.8	209.5	209.7	210.3	209.3	209.8	211.2	211.2	211.0
1.5°	210.8	211.4	211.4	210.2	209.5	210.4	210.5	210.3	210.8	210.5	211.9
2°	211.8	212.8	211.3	211.5	209.0	210.5	210.4	210.3	210.9	210.3	210.4
2.5°	210.4	211.9	211.0	211.1	209.7	210.2	209.9	210.8	210.4	210.3	210.5
3°	210.3	210.6	210.9	210.9	209.5	210.5	209.6	210.6	210.1	210.5	209.9
3.5°	209.9	209.8	210.1	210.1	209.0	209.5	209.7	210.4	210.1	211.0	210.1
4°	210.6	210.4	209.9	210.4	209.8	210.3	209.4	209.7	210.1	210.8	210.6
4.5°	210.5	209.7	210.6	210.2	209.2	209.9	209.3	209.5	210.0	209.7	209.7
5°	211.0	209.5	209.6	210.2	209.2	209.6	208.9	209.3	209.7	209.2	209.3
5.5°	209.0	208.8	210.1	209.5	208.7	209.6	209.9	209.6	210.1	210.0	209.2
6°	208.4	209.3	210.1	209.5	208.5	209.2	210.3	209.8	210.1	209.5	209.2
6.5°	207.9	209.4	209.5	209.7	208.2	209.6	208.4	208.4	209.5	207.4	209.4
7°	208.4	209.3	207.9	209.6	208.4	209.5	209.3	208.4	209.7	208.4	208.6
7.5°	208.5	208.8	207.5	208.4	208.6	207.7	208.9	208.4	208.4	207.7	207.4
8°	209.0	208.4	208.6	209.1	208.2	207.6	208.4	208.2	208.2	207.1	208.7
8.5°	207.8	207.5	208.2	208.8	208.1	206.8	209.0	207.5	208.4	207.9	207.9
9°	207.5	206.7	208.4	208.2	206.6	207.9	207.7	207.7	207.4	207.1	207.3
9.5°	207.0	207.1	207.7	207.7	206.7	208.2	208.2	206.7	206.7	207.0	207.7
10°	207.1	207.7	206.4	207.8	206.4	206.7	207.8	207.0	206.5	206.6	206.2
10.5°	207.4	206.8	206.6	207.9	206.4	207.4	206.4	206.2	206.4	205.7	207.3
11°	206.6	205.7	207.5	206.6	205.3	206.7	207.1	206.6	205.8	205.4	205.6
11.5°	205.8	205.9	208.2	206.0	205.3	206.6	205.8	205.7	205.7	206.1	205.0
12°	205.9	205.3	207.1	206.7	205.2	205.7	206.4	204.9	205.6	203.6	204.6
12.5°	205.4	205.4	206.3	205.7	204.3	205.7	206.0	204.5	204.9	204.0	204.3
13°	205.1	205.4	205.3	205.3	204.5	204.3	205.8	203.9	204.4	203.8	203.8
13.5°	204.5	205.5	204.3	204.9	204.5	203.8	204.6	204.0	204.0	203.0	202.4
14°	203.5	204.7	203.9	204.0	203.8	203.8	204.6	203.1	203.3	202.7	202.7
14.5°	203.2	203.1	203.4	203.4	203.2	203.8	203.2	202.8	202.5	202.2	202.3
15°	202.3	202.1	204.1	202.4	202.8	203.0	203.0	202.2	202.5	201.4	202.1
15.5°	202.0	201.3	203.3	202.5	202.2	202.3	202.5	201.3	201.5	201.0	200.6
16°	201.5	201.3	203.4	202.3	201.5	201.9	202.8	201.3	201.8	200.4	199.6
16.5°	200.4	200.8	202.5	201.8	200.6	201.3	200.8	200.9	201.2	199.8	199.9
17°	200.9	200.8	201.3	201.2	200.8	201.2	200.7	200.8	200.0	199.5	198.8
17.5°	199.7	201.0	200.6	200.2	199.8	200.4	200.7	199.0	200.9	199.0	199.4
18°	198.9	199.7	200.6	200.0	199.3	199.5	200.3	199.4	198.6	198.4	197.9
18.5°	198.5	198.2	200.1	199.1	199.5	199.1	199.6	198.4	197.6	197.6	196.8
19°	197.0	197.4	199.7	198.4	198.0	198.4	198.9	197.4	197.1	197.1	196.8
19.5°	196.5	197.4	198.6	197.8	197.9	197.5	198.2	197.1	196.7	196.5	196.0
20°	195.7	196.7	197.4	197.1	196.9	196.9	196.5	196.5	195.6	195.4	195.6
20.5°	195.0	194.6	196.3	196.5	196.2	196.2	196.8	195.5	195.5	195.0	194.4
21°	194.4	194.6	195.5	195.7	195.2	195.2	196.1	194.8	194.5	193.5	193.3
21.5°	193.6	195.0	195.4	195.0	194.3	195.0	195.0	194.1	194.1	193.0	192.8
22°	193.3	193.7	194.4	194.9	194.1	193.9	194.5	193.2	193.5	192.7	193.0



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	192.4	192.8	193.9	193.8	193.4	193.0	193.4	192.7	192.3	191.9	191.5
23°	191.1	192.8	193.5	193.7	192.6	192.9	193.1	192.6	191.9	190.8	190.8
23.5°	190.4	191.7	192.3	192.4	191.4	191.5	190.8	191.6	191.0	190.2	189.9
24°	189.5	190.6	191.5	191.8	190.8	190.8	190.1	190.5	190.0	189.1	189.6
24.5°	188.6	190.0	190.4	190.9	190.0	190.4	190.0	189.8	188.7	188.2	187.0
25°	188.3	188.9	189.6	189.9	189.5	189.5	189.7	188.3	188.3	187.3	187.0
25.5°	187.3	188.0	188.8	189.5	188.9	188.4	189.4	187.9	187.8	186.7	186.1
26°	186.1	187.0	188.0	188.9	188.0	187.9	188.0	186.9	186.1	185.9	185.3
26.5°	185.2	186.5	187.0	187.6	186.7	187.3	187.3	186.4	185.9	185.5	184.4
27°	184.1	185.4	186.3	186.4	185.3	186.3	186.5	185.1	185.1	183.9	183.7
27.5°	183.2	184.1	185.4	185.7	184.8	185.4	184.8	184.0	183.7	182.8	182.0
28°	182.7	183.7	184.3	184.7	183.9	184.1	184.1	183.2	182.5	181.8	181.0
28.5°	181.7	182.1	183.2	183.7	182.7	183.3	183.1	182.1	181.8	181.2	180.5
29°	180.4	181.1	182.6	182.6	182.0	182.5	182.0	181.7	180.7	180.0	179.4
29.5°	179.6	180.6	181.6	181.3	182.0	181.4	181.1	179.7	179.8	178.2	178.5
30°	178.5	179.6	180.5	180.8	180.0	180.4	180.3	179.2	178.7	177.5	177.0
30.5°	177.4	178.1	179.3	179.8	178.9	179.4	179.4	178.6	177.8	176.7	176.2
31°	176.6	177.3	178.3	178.2	177.6	178.7	179.2	177.4	176.3	175.7	175.0
31.5°	175.5	176.3	177.1	177.1	177.0	177.6	177.6	175.4	175.3	174.6	174.1
32°	174.2	174.9	176.1	176.3	176.3	176.2	176.3	175.1	174.9	173.5	172.3
32.5°	173.1	174.0	175.2	175.3	175.0	175.5	174.7	174.0	173.4	172.5	171.2
33°	172.0	172.8	174.0	174.4	174.4	174.6	174.4	173.2	172.7	171.1	170.2
33.5°	170.9	172.2	173.1	173.3	173.3	173.3	173.3	171.7	171.5	170.1	169.0
34°	169.6	170.9	172.0	172.4	172.0	171.7	171.8	170.7	171.2	169.1	168.3
34.5°	168.6	169.8	170.9	170.9	170.5	170.7	170.6	169.9	169.0	168.1	167.5
35°	167.6	168.5	170.1	169.9	169.5	169.8	169.5	168.9	168.2	167.0	166.2
35.5°	166.2	167.3	169.1	168.9	168.3	168.7	168.6	167.6	167.2	165.4	165.2
36°	165.1	166.0	167.7	167.8	167.4	167.7	168.1	166.4	165.7	164.4	163.9
36.5°	164.0	164.9	166.3	166.6	166.4	166.3	166.1	165.2	164.6	163.5	162.6
37°	162.6	163.6	165.2	165.3	164.9	165.2	164.8	164.1	163.5	162.5	161.2
37.5°	161.5	162.3	164.0	163.8	163.8	163.9	164.2	162.9	162.2	161.1	159.7
38°	160.0	161.2	162.7	162.8	162.7	162.7	162.6	161.6	160.8	159.9	158.6
38.5°	159.0	160.0	161.6	161.6	161.0	161.6	161.4	160.3	159.5	158.6	157.2
39°	157.5	158.8	160.3	160.5	160.1	160.3	159.9	159.2	158.2	156.6	156.2
39.5°	155.9	157.7	158.9	159.0	159.3	159.1	158.4	157.9	156.7	156.0	154.8
40°	154.8	156.4	157.9	157.7	158.2	157.7	157.6	156.6	155.5	154.7	153.0
40.5°	154.0	155.0	156.7	156.4	156.9	156.6	156.3	155.4	154.3	153.0	151.8
41°	152.7	153.6	155.1	155.3	155.4	155.3	154.9	154.0	153.0	151.4	150.4
41.5°	150.8	152.3	153.8	154.0	153.6	154.0	153.7	152.6	151.7	150.3	149.4
42°	149.8	150.9	152.5	152.7	152.6	152.9	152.4	151.3	150.4	149.1	147.6
42.5°	148.4	149.4	150.7	151.5	151.4	151.5	151.2	149.8	149.1	147.6	146.7
43°	147.1	148.4	149.7	150.1	150.1	150.1	149.8	148.6	147.8	146.4	145.4
43.5°	145.8	147.2	148.4	148.8	148.8	148.8	148.5	147.3	146.4	145.0	143.9
44°	144.5	145.8	147.1	147.5	147.4	147.5	147.1	146.0	145.0	143.5	142.4
44.5°	143.2	144.3	145.6	146.2	146.0	146.2	145.9	144.7	143.7	142.1	140.9



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	141.9	142.8	144.3	144.7	144.7	144.8	144.5	143.2	142.3	140.8	139.5
45.5°	140.2	141.5	143.2	143.4	143.3	143.4	143.1	141.7	140.8	139.3	138.2
46°	138.5	140.1	141.5	142.0	141.9	142.0	141.6	140.2	139.5	138.0	136.6
46.5°	136.9	138.7	140.1	140.6	140.6	140.6	140.2	138.9	138.0	136.5	135.4
47°	136.1	137.1	138.7	139.1	139.1	139.2	138.7	137.5	136.3	135.0	134.2
47.5°	134.4	135.7	137.3	137.8	137.7	138.0	137.2	135.9	134.8	133.4	132.5
48°	132.9	134.3	136.1	136.5	136.2	136.5	135.8	134.4	133.5	131.8	130.9
48.5°	131.3	133.0	134.3	134.8	134.9	134.8	134.3	133.0	131.9	130.2	129.4
49°	129.8	131.3	132.9	133.5	133.5	133.3	132.9	131.6	130.4	128.9	127.9
49.5°	128.3	129.6	131.1	132.1	131.9	131.8	131.5	130.2	128.9	127.5	126.3
50°	126.7	128.3	129.8	130.4	130.4	130.3	129.9	128.7	127.6	126.0	124.8
50.5°	125.1	126.6	128.0	128.6	128.9	128.7	128.3	127.0	126.0	124.4	123.1
51°	123.5	125.1	126.6	127.3	127.4	127.5	126.6	125.7	124.5	122.8	121.8
51.5°	122.0	123.5	125.1	125.8	125.9	126.1	125.0	124.3	123.0	121.3	120.4
52°	120.4	121.8	123.6	124.3	124.5	124.4	123.5	122.7	121.4	119.6	118.7
52.5°	118.8	120.5	122.0	122.7	123.0	122.9	122.1	120.9	119.8	118.1	117.3
53°	117.4	119.0	120.5	121.1	121.4	121.3	120.6	119.4	118.1	116.5	115.5
53.5°	115.9	117.3	118.7	119.4	119.8	119.7	119.0	117.9	116.6	115.0	114.0
54°	114.4	115.7	117.2	117.7	117.9	118.2	117.5	116.6	115.0	113.5	112.3
54.5°	112.5	114.1	115.8	116.2	116.6	116.8	116.0	114.9	113.5	112.0	110.5
55°	110.9	112.6	114.2	114.7	114.9	115.2	114.4	113.1	111.9	110.3	109.1
55.5°	109.4	111.0	112.7	112.9	113.4	113.6	112.8	111.6	110.1	108.6	107.5
56°	107.6	109.4	111.1	111.4	111.8	112.0	111.2	109.8	108.6	107.0	105.9
56.5°	105.8	107.7	109.3	109.9	110.4	110.4	109.5	108.4	106.9	105.5	104.1
57°	104.2	105.9	107.3	108.2	108.8	108.8	107.8	106.7	105.3	103.8	102.5
57.5°	102.6	104.2	105.8	106.4	107.1	107.1	106.2	105.2	103.6	102.2	100.8
58°	100.9	102.5	104.2	104.8	105.5	105.4	104.5	103.4	102.1	100.4	99.1
58.5°	99.3	101.0	102.6	103.2	103.8	103.7	102.9	101.7	100.4	98.6	97.4
59°	97.6	99.2	100.8	101.7	102.2	102.1	101.5	99.9	98.8	96.9	95.6
59.5°	95.8	97.5	99.1	99.9	100.7	100.5	99.9	98.3	97.1	95.2	93.9
60°	94.3	95.8	97.5	98.3	99.1	98.8	98.2	96.4	95.4	93.6	92.0
60.5°	92.3	94.3	95.8	96.6	97.3	97.2	96.5	95.0	93.8	91.9	90.5
61°	90.7	92.5	94.1	94.9	95.6	95.4	94.7	93.2	92.0	90.1	88.6
61.5°	89.0	90.8	92.3	93.2	93.9	93.8	93.0	91.7	90.2	88.4	86.9
62°	87.2	88.9	90.6	91.4	92.3	92.1	91.3	89.9	88.5	86.6	85.0
62.5°	85.4	87.2	88.9	89.8	90.6	90.4	89.7	88.2	86.7	84.9	83.2
63°	83.6	85.4	87.1	88.1	88.8	88.7	87.9	86.2	85.0	83.2	81.4
63.5°	81.9	83.6	85.3	86.1	87.0	87.0	86.2	84.6	83.2	81.3	79.7
64°	80.0	81.7	83.5	84.3	85.3	85.2	84.5	82.6	81.3	79.4	78.1
64.5°	78.3	80.1	81.7	82.7	83.5	83.4	82.7	81.0	79.6	77.8	76.2
65°	76.5	78.3	79.8	81.0	81.7	81.5	80.9	79.3	77.8	76.1	74.2
65.5°	74.7	76.7	78.2	79.3	79.9	79.8	79.1	77.4	76.0	74.2	72.4
66°	72.9	74.8	76.5	77.4	78.1	77.9	77.3	75.5	74.2	72.3	70.7
66.5°	71.1	72.8	74.6	75.5	76.3	76.3	75.5	73.8	72.3	70.5	68.9
67°	69.4	71.2	72.8	73.7	74.5	74.4	73.7	71.9	70.5	68.7	67.0



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	67.4	69.4	71.1	71.8	72.7	72.6	71.9	70.2	68.7	66.9	65.1
68°	65.4	67.4	69.4	70.2	71.0	70.9	70.0	68.3	66.8	65.0	63.3
68.5°	63.5	65.5	67.4	68.3	69.1	69.0	68.2	66.4	64.9	63.1	61.4
69°	61.7	63.6	65.5	66.2	67.2	67.2	66.3	64.6	63.1	61.2	59.6
69.5°	59.8	61.8	63.6	64.4	65.5	65.4	64.5	62.7	61.2	59.4	57.9
70°	58.1	59.9	61.8	62.7	63.6	63.5	62.7	61.0	59.3	57.7	56.0
70.5°	56.3	58.1	59.9	60.8	61.7	61.8	60.8	59.2	57.6	55.8	54.2
71°	54.4	56.2	58.1	58.9	59.8	59.8	59.0	57.4	55.7	53.9	52.3
71.5°	52.5	54.5	56.2	57.2	58.0	58.0	57.1	55.5	53.9	52.0	50.5
72°	50.6	52.5	54.3	55.4	56.3	56.2	55.3	53.7	51.9	50.2	48.7
72.5°	48.8	50.8	52.3	53.5	54.5	54.4	53.4	51.9	50.1	48.4	46.9
73°	46.9	48.8	50.5	51.6	52.7	52.5	51.5	50.0	48.2	46.6	44.9
73.5°	45.0	46.9	48.7	49.8	50.8	50.6	49.7	48.2	46.5	44.5	43.1
74°	43.2	45.0	46.9	47.9	49.0	48.9	47.9	46.3	44.6	42.8	41.2
74.5°	41.3	43.2	44.9	46.0	47.2	47.1	46.0	44.5	42.8	41.0	39.3
75°	39.4	41.3	43.1	44.2	45.4	45.3	44.2	42.7	41.0	39.1	37.4
75.5°	37.5	39.5	41.2	42.5	43.6	43.4	42.5	40.9	39.1	37.3	35.8
76°	35.8	37.6	39.3	40.5	41.7	41.5	40.6	39.0	37.3	35.6	33.9
76.5°	33.9	35.9	37.4	38.8	39.9	39.7	38.7	37.2	35.6	33.7	32.1
77°	32.0	34.0	35.8	36.9	38.0	37.8	36.9	35.5	33.8	32.0	30.3
77.5°	30.4	32.2	33.9	35.0	36.3	36.1	35.2	33.7	32.1	30.2	28.6
78°	28.5	30.4	32.1	33.3	34.5	34.3	33.4	31.9	30.2	28.4	26.9
78.5°	26.9	28.6	30.3	31.5	32.7	32.4	31.6	30.1	28.4	26.7	25.2
79°	25.1	26.9	28.5	29.6	30.9	30.7	29.8	28.3	26.7	24.9	23.4
79.5°	23.3	25.1	26.8	27.8	29.1	28.9	28.1	26.7	25.0	23.2	21.7
80°	21.5	23.4	25.2	26.1	27.4	27.2	26.4	24.9	23.3	21.6	20.0
80.5°	20.0	21.6	23.3	24.3	25.7	25.5	24.6	23.2	21.6	19.9	18.5
81°	18.2	20.0	21.5	22.6	24.0	23.9	23.0	21.6	20.0	18.3	16.8
81.5°	16.6	18.4	19.9	20.9	22.3	22.2	21.3	19.9	18.3	16.6	15.2
82°	15.1	16.8	18.3	19.2	20.7	20.4	19.6	18.3	16.7	15.1	13.8
82.5°	13.7	15.1	16.7	17.6	19.0	18.9	18.1	16.7	15.1	13.7	12.4
83°	12.2	13.8	15.1	16.1	17.4	17.3	16.4	15.2	13.8	12.2	11.0
83.5°	10.7	12.3	13.7	14.6	15.9	15.7	14.9	13.7	12.2	10.8	9.5
84°	9.4	10.8	12.2	13.1	14.3	14.2	13.5	12.4	10.9	9.4	8.2
84.5°	8.1	9.4	10.7	11.6	12.9	12.9	12.0	10.9	9.4	8.1	6.9
85°	6.8	8.2	9.4	10.2	11.5	11.4	10.6	9.5	8.1	6.8	5.7
85.5°	5.7	6.9	8.1	8.8	10.1	10.0	9.3	8.1	6.8	5.6	4.6
86°	4.6	5.7	6.8	7.6	8.8	8.6	7.9	6.9	5.7	4.5	3.5
86.5°	3.6	4.6	5.8	6.4	7.5	7.3	6.7	5.7	4.6	3.5	2.6
87°	2.7	3.6	4.6	5.3	6.2	6.1	5.5	4.6	3.5	2.5	1.8
87.5°	1.8	2.7	3.6	4.3	5.2	5.1	4.4	3.5	2.6	1.7	1.0
88°	1.2	2.0	2.7	3.3	4.0	4.0	3.4	2.6	1.8	1.0	0.5
88.5°	0.6	1.2	1.8	2.3	3.1	2.9	2.5	1.8	1.0	0.4	0.0
89°	0.2	0.7	1.2	1.7	2.1	2.0	1.6	1.1	0.4	0.0	0.0
89.5°	0.0	0.3	0.6	1.0	1.3	1.2	0.8	0.5	0.0	0.0	0.0



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.2	0.5	0.7	0.6	0.3	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121.5°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.5°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131.5°	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
135.5°	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139.5°	0.1	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
141°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
141.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
143.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
144°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
144.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
145°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
145.5°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
146°	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1
146.5°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
147°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
147.5°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
148°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
148.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
149°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
149.5°	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1
150°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
150.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
151°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
151.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
152°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
152.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
153°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
153.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
154°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
154.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
155°	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2
155.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
156°	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
156.5°	0.1	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3
157°	0.1	0.3	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.1	0.3	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.2
158°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
158.5°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
159°	0.1	0.3	0.1	0.1	0.0	0.3	0.2	0.1	0.1	0.1	0.3
159.5°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
160°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
160.5°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
161°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
161.5°	0.1	0.3	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.3
162°	0.1	0.3	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.3
162.5°	0.1	0.3	0.1	0.1	0.0	0.2	0.3	0.1	0.1	0.1	0.3
163°	0.1	0.3	0.1	0.1	0.0	0.2	0.3	0.1	0.1	0.1	0.3
163.5°	0.1	0.4	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.3
164°	0.1	0.4	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.3
164.5°	0.1	0.3	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.5
165°	0.1	0.4	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.5
165.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
166°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
166.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
167°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
167.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
168°	0.1	0.1	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
168.5°	0.1	0.1	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
169°	0.1	0.3	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
169.5°	0.1	0.3	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.4	0.4
170°	0.1	0.3	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.4	0.4
170.5°	0.1	0.7	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.5	0.4
171°	0.1	0.7	0.1	0.1	0.0	0.3	0.4	0.1	0.1	0.4	0.4
171.5°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.2	0.4
172°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.5	0.4
172.5°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.2	0.4
173°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.2	0.4
173.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
174°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
174.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
175°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
175.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
176°	0.1	0.5	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
176.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.4	0.1	0.1	0.1	0.4
177°	0.1	0.5	0.1	0.1	0.0	0.3	0.4	0.1	0.1	0.1	0.4
177.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.4	0.1	0.1	0.1	0.4
178°	0.1	0.5	0.1	0.1	0.0	0.3	0.4	0.1	0.1	0.1	0.4
178.5°	0.1	0.5	0.1	0.1	0.0	0.3	0.5	0.1	0.1	0.1	0.4
179°	0.1	0.4	0.1	0.1	0.0	0.3	0.5	0.1	0.1	0.1	0.4
179.5°	0.1	0.4	0.1	0.1	0.0	0.3	0.5	0.1	0.1	0.1	0.4



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	210.3	210.3	210.3	210.3	210.3	210.3
0.5°	210.1	209.2	209.2	210.4	209.5	210.6
1°	210.0	209.7	209.3	210.2	210.0	210.3
1.5°	209.3	209.2	210.0	210.5	210.5	210.8
2°	209.9	209.6	209.3	210.0	210.8	211.8
2.5°	209.2	210.1	208.8	210.5	210.5	210.4
3°	209.7	208.6	209.1	209.3	210.2	210.3
3.5°	209.6	208.3	209.4	210.0	209.5	209.9
4°	209.2	208.8	208.3	209.5	208.7	210.6
4.5°	209.0	209.0	209.0	209.0	209.0	210.5
5°	209.3	209.3	209.6	208.3	209.1	211.0
5.5°	209.0	207.8	208.6	208.8	207.9	209.0
6°	207.4	208.7	208.7	209.7	207.9	208.4
6.5°	208.3	206.7	207.9	209.4	207.9	207.9
7°	208.6	207.6	207.4	208.2	208.8	208.4
7.5°	207.8	206.4	207.7	208.1	209.3	208.5
8°	207.9	206.9	207.4	208.2	207.8	209.0
8.5°	207.3	206.0	206.7	206.2	207.2	207.8
9°	206.6	206.0	206.8	206.6	205.4	207.5
9.5°	205.1	206.4	205.0	206.6	206.6	207.0
10°	206.2	205.3	204.7	206.2	205.9	207.1
10.5°	204.9	205.0	205.9	206.4	205.8	207.4
11°	205.0	204.3	204.7	206.0	205.8	206.6
11.5°	204.3	203.4	204.5	205.2	204.7	205.8
12°	203.6	203.9	204.4	203.6	203.6	205.9
12.5°	203.4	202.6	203.6	202.7	202.7	205.4
13°	203.2	201.9	203.0	202.7	202.7	205.1
13.5°	201.9	201.4	201.8	203.0	202.6	204.5
14°	202.0	201.1	201.3	202.5	202.2	203.5
14.5°	200.9	201.2	201.2	201.8	202.1	203.2
15°	200.7	200.4	200.2	201.2	201.8	202.3
15.5°	200.0	199.4	199.9	200.6	201.3	202.0
16°	200.0	198.6	198.9	200.0	199.6	201.5
16.5°	199.4	198.1	198.1	199.3	199.3	200.4
17°	198.2	197.3	197.8	198.7	199.0	200.9
17.5°	198.0	197.2	197.5	198.1	197.8	199.7
18°	197.1	196.0	196.9	196.7	197.4	198.9
18.5°	196.2	195.6	196.0	196.3	196.7	198.5
19°	196.6	195.4	195.4	195.6	196.2	197.0
19.5°	195.2	194.6	194.4	195.4	195.2	196.5
20°	194.4	194.1	194.1	194.6	195.1	195.7
20.5°	193.4	192.4	193.9	193.4	194.1	195.0
21°	192.4	191.9	192.4	193.2	193.6	194.4
21.5°	191.4	191.8	192.1	192.4	192.7	193.6
22°	191.5	190.8	190.5	191.8	191.5	193.3



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	190.6	189.9	189.6	191.3	190.6	192.4
23°	189.7	188.9	189.3	190.0	190.3	191.1
23.5°	188.7	188.2	188.7	188.6	189.5	190.4
24°	186.9	187.1	188.0	188.4	188.9	189.5
24.5°	185.9	186.1	187.0	187.4	187.4	188.6
25°	185.4	184.9	185.6	186.4	186.5	188.3
25.5°	185.8	184.3	184.6	185.3	185.7	187.3
26°	184.4	182.4	183.8	184.5	184.8	186.1
26.5°	183.5	182.4	182.6	183.5	184.4	185.2
27°	182.2	182.1	181.7	182.2	183.7	184.1
27.5°	181.3	181.1	180.7	181.4	182.4	183.2
28°	180.1	179.3	180.0	180.4	181.1	182.7
28.5°	179.2	177.9	178.9	179.4	180.3	181.7
29°	178.1	177.1	177.4	178.0	179.0	180.4
29.5°	177.1	175.6	176.5	177.0	177.7	179.6
30°	176.0	173.9	175.8	176.1	176.8	178.5
30.5°	175.0	173.3	174.4	175.3	175.6	177.4
31°	173.8	173.2	173.5	174.4	174.8	176.6
31.5°	172.4	172.3	172.2	173.1	173.4	175.5
32°	171.4	171.8	170.6	172.0	172.5	174.2
32.5°	170.2	171.2	169.6	170.9	171.4	173.1
33°	169.2	169.6	168.5	169.7	170.3	172.0
33.5°	168.3	168.1	167.5	168.8	169.2	170.9
34°	167.2	166.7	166.4	167.5	167.9	169.6
34.5°	166.2	165.7	165.3	166.2	166.8	168.6
35°	164.9	164.7	164.0	165.0	165.6	167.6
35.5°	163.8	163.6	162.9	163.8	164.2	166.2
36°	162.5	161.8	161.7	162.7	163.0	165.1
36.5°	161.3	160.3	160.6	161.6	161.7	164.0
37°	160.0	159.1	159.4	160.3	160.6	162.6
37.5°	158.8	157.7	158.3	159.1	159.3	161.5
38°	157.6	156.0	157.1	157.9	158.1	160.0
38.5°	156.2	154.3	155.8	156.6	156.9	159.0
39°	154.7	153.2	154.4	155.4	155.6	157.5
39.5°	153.6	152.1	153.2	153.9	154.5	155.9
40°	152.1	151.0	151.7	152.8	153.2	154.8
40.5°	150.7	149.9	150.2	151.3	151.9	154.0
41°	149.5	148.7	148.9	149.9	150.8	152.7
41.5°	148.3	147.1	147.4	148.8	149.3	150.8
42°	146.8	146.3	146.1	147.2	148.0	149.8
42.5°	145.6	144.9	144.7	146.1	146.7	148.4
43°	144.2	143.1	143.2	144.3	145.2	147.1
43.5°	142.9	141.6	141.8	143.2	143.9	145.8
44°	141.5	140.4	140.7	141.5	142.6	144.5
44.5°	140.1	139.4	138.9	140.1	141.1	143.2



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	138.7	137.8	137.5	139.0	139.8	141.9
45.5°	137.1	136.2	136.1	137.6	138.2	140.2
46°	135.7	134.7	134.8	135.9	136.9	138.5
46.5°	134.3	133.0	133.5	134.4	135.4	136.9
47°	132.6	131.6	131.9	133.0	133.9	136.1
47.5°	131.2	130.2	130.5	131.5	132.4	134.4
48°	129.6	128.9	128.9	130.0	130.9	132.9
48.5°	128.1	127.3	127.2	128.7	129.3	131.3
49°	126.6	125.6	125.7	127.2	127.8	129.8
49.5°	125.2	123.9	124.4	125.6	126.6	128.3
50°	123.6	122.3	122.7	124.2	125.0	126.7
50.5°	122.0	120.7	121.3	122.5	123.4	125.1
51°	120.3	119.4	119.9	120.9	121.8	123.5
51.5°	118.7	117.9	118.1	119.2	120.3	122.0
52°	117.2	116.2	116.4	117.6	118.7	120.4
52.5°	115.7	114.4	114.8	116.1	117.1	118.8
53°	114.1	112.6	113.4	114.5	115.5	117.4
53.5°	112.5	111.1	111.8	112.7	113.7	115.9
54°	110.9	109.6	110.0	111.0	111.8	114.4
54.5°	109.4	107.9	108.4	109.4	110.6	112.5
55°	107.7	106.0	106.6	107.8	108.8	110.9
55.5°	105.9	104.7	105.1	106.2	107.0	109.4
56°	104.3	103.0	103.4	104.5	105.5	107.6
56.5°	102.7	101.6	102.1	102.9	103.8	105.8
57°	101.1	99.8	100.1	101.2	102.5	104.2
57.5°	99.5	98.0	98.5	99.5	100.9	102.6
58°	97.8	96.4	96.7	97.8	99.1	100.9
58.5°	96.1	94.8	95.1	96.2	97.4	99.3
59°	94.4	93.0	93.2	94.4	95.6	97.6
59.5°	92.7	91.3	91.5	92.6	93.9	95.8
60°	91.0	89.5	89.7	91.0	92.1	94.3
60.5°	89.2	87.6	88.1	89.3	90.4	92.3
61°	87.4	85.9	86.3	87.3	88.7	90.7
61.5°	85.6	84.3	84.5	85.6	86.9	89.0
62°	83.9	82.4	82.9	83.8	85.0	87.2
62.5°	82.2	80.6	81.1	82.0	83.2	85.4
63°	80.4	78.9	79.3	80.4	81.5	83.6
63.5°	78.6	77.2	77.4	78.5	79.8	81.9
64°	76.8	75.4	75.5	76.7	78.0	80.0
64.5°	74.9	73.4	73.9	74.9	76.3	78.3
65°	73.1	71.6	72.0	73.1	74.4	76.5
65.5°	71.1	69.8	70.2	71.4	72.7	74.7
66°	69.4	68.1	68.4	69.4	70.8	72.9
66.5°	67.5	66.2	66.6	67.5	69.1	71.1
67°	65.7	64.4	64.8	65.9	67.2	69.4



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	63.8	62.5	62.9	63.8	65.3	67.4
68°	62.0	60.8	60.9	62.0	63.5	65.4
68.5°	60.1	58.8	59.2	60.1	61.5	63.5
69°	58.3	57.0	57.3	58.4	59.6	61.7
69.5°	56.4	55.3	55.4	56.6	57.9	59.8
70°	54.6	53.4	53.7	54.6	56.0	58.1
70.5°	52.8	51.5	51.7	52.8	54.1	56.3
71°	50.9	49.7	49.9	51.0	52.3	54.4
71.5°	49.2	47.8	47.9	49.0	50.3	52.5
72°	47.2	45.8	46.0	47.2	48.7	50.6
72.5°	45.4	44.1	44.3	45.3	46.7	48.8
73°	43.5	42.1	42.4	43.4	44.9	46.9
73.5°	41.6	40.3	40.5	41.5	43.2	45.0
74°	39.8	38.6	38.7	39.7	41.2	43.2
74.5°	38.0	36.7	36.7	37.8	39.3	41.3
75°	36.2	34.9	35.0	36.1	37.4	39.4
75.5°	34.4	33.2	33.3	34.2	35.6	37.5
76°	32.6	31.3	31.4	32.4	33.7	35.8
76.5°	30.8	29.5	29.6	30.6	31.9	33.9
77°	29.1	27.8	27.8	28.9	30.2	32.0
77.5°	27.4	25.9	26.1	27.0	28.4	30.4
78°	25.6	24.2	24.3	25.4	26.7	28.5
78.5°	23.9	22.5	22.6	23.6	25.0	26.9
79°	22.2	20.8	21.0	21.9	23.2	25.1
79.5°	20.5	19.1	19.3	20.2	21.5	23.3
80°	18.9	17.5	17.6	18.5	19.8	21.5
80.5°	17.3	15.8	16.0	17.0	18.1	20.0
81°	15.7	14.4	14.6	15.3	16.6	18.2
81.5°	14.2	12.9	13.1	13.9	15.0	16.6
82°	12.8	11.4	11.6	12.4	13.7	15.1
82.5°	11.4	10.0	10.2	11.0	12.2	13.7
83°	10.0	8.8	8.8	9.6	10.7	12.2
83.5°	8.6	7.5	7.6	8.3	9.3	10.7
84°	7.3	6.2	6.4	7.0	8.0	9.4
84.5°	6.1	5.1	5.2	5.9	6.8	8.1
85°	4.9	4.1	4.1	4.7	5.7	6.8
85.5°	3.9	3.2	3.2	3.6	4.5	5.7
86°	2.9	2.3	2.4	2.8	3.5	4.6
86.5°	2.0	1.5	1.6	2.0	2.6	3.6
87°	1.2	0.9	1.0	1.2	1.8	2.7
87.5°	0.5	0.4	0.4	0.7	1.2	1.8
88°	0.0	0.2	0.1	0.3	0.6	1.2
88.5°	0.0	0.0	0.0	0.0	0.3	0.6
89°	0.0	0.0	0.0	0.0	0.0	0.2
89.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0
94.5°	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0
95.5°	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0
96.5°	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0
98.5°	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0
99.5°	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0
100.5°	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0
101.5°	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0
103.5°	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0
104.5°	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0
105.5°	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0
106.5°	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0
108.5°	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0
109.5°	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0
110.5°	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0
111.5°	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P522069
 CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0
113.5°	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0
114.5°	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.1	0.0
115.5°	0.0	0.0	0.0	0.0	0.1	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0
116.5°	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.1	0.0	0.0	0.1	0.1
117.5°	0.0	0.1	0.0	0.0	0.0	0.1
118°	0.0	0.1	0.0	0.0	0.0	0.0
118.5°	0.0	0.0	0.1	0.0	0.1	0.0
119°	0.0	0.1	0.1	0.0	0.1	0.1
119.5°	0.0	0.1	0.1	0.1	0.1	0.1
120°	0.0	0.1	0.1	0.1	0.1	0.1
120.5°	0.0	0.1	0.1	0.1	0.1	0.1
121°	0.0	0.1	0.1	0.1	0.1	0.1
121.5°	0.0	0.1	0.1	0.0	0.1	0.1
122°	0.0	0.1	0.1	0.1	0.1	0.1
122.5°	0.0	0.1	0.0	0.1	0.1	0.1
123°	0.0	0.1	0.0	0.1	0.1	0.1
123.5°	0.0	0.1	0.1	0.1	0.1	0.1
124°	0.0	0.1	0.0	0.1	0.1	0.1
124.5°	0.0	0.1	0.1	0.1	0.1	0.1
125°	0.0	0.1	0.1	0.1	0.1	0.1
125.5°	0.0	0.1	0.1	0.1	0.1	0.1
126°	0.0	0.1	0.0	0.1	0.1	0.1
126.5°	0.0	0.1	0.1	0.1	0.1	0.1
127°	0.0	0.1	0.1	0.1	0.1	0.1
127.5°	0.0	0.1	0.1	0.1	0.1	0.2
128°	0.0	0.1	0.1	0.1	0.1	0.1
128.5°	0.0	0.1	0.1	0.1	0.1	0.1
129°	0.0	0.1	0.1	0.1	0.1	0.1
129.5°	0.0	0.1	0.1	0.1	0.1	0.1
130°	0.0	0.1	0.1	0.1	0.1	0.1
130.5°	0.0	0.1	0.1	0.1	0.1	0.1
131°	0.0	0.1	0.1	0.1	0.1	0.1
131.5°	0.0	0.1	0.1	0.2	0.1	0.2
132°	0.0	0.1	0.1	0.1	0.1	0.1
132.5°	0.0	0.1	0.1	0.1	0.1	0.1
133°	0.0	0.1	0.1	0.1	0.1	0.1
133.5°	0.0	0.1	0.1	0.1	0.1	0.1
134°	0.0	0.1	0.2	0.1	0.1	0.1
134.5°	0.0	0.1	0.2	0.1	0.1	0.1



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.0	0.1	0.1	0.2	0.1	0.1
135.5°	0.0	0.1	0.1	0.2	0.1	0.1
136°	0.0	0.1	0.1	0.1	0.1	0.1
136.5°	0.0	0.1	0.1	0.1	0.1	0.1
137°	0.0	0.1	0.1	0.1	0.1	0.1
137.5°	0.0	0.1	0.1	0.1	0.1	0.1
138°	0.0	0.1	0.1	0.1	0.1	0.1
138.5°	0.0	0.1	0.1	0.1	0.1	0.1
139°	0.0	0.1	0.1	0.1	0.1	0.1
139.5°	0.0	0.1	0.1	0.1	0.1	0.1
140°	0.0	0.1	0.1	0.1	0.1	0.1
140.5°	0.0	0.1	0.1	0.1	0.1	0.1
141°	0.0	0.1	0.1	0.1	0.1	0.1
141.5°	0.0	0.1	0.1	0.1	0.1	0.1
142°	0.0	0.1	0.1	0.1	0.1	0.0
142.5°	0.0	0.1	0.1	0.1	0.1	0.0
143°	0.0	0.1	0.1	0.1	0.1	0.1
143.5°	0.0	0.1	0.1	0.1	0.1	0.1
144°	0.0	0.1	0.1	0.1	0.1	0.1
144.5°	0.0	0.1	0.1	0.1	0.1	0.1
145°	0.0	0.1	0.1	0.1	0.1	0.1
145.5°	0.0	0.1	0.1	0.1	0.1	0.1
146°	0.0	0.1	0.1	0.1	0.1	0.1
146.5°	0.0	0.1	0.1	0.1	0.1	0.1
147°	0.1	0.1	0.1	0.1	0.1	0.1
147.5°	0.0	0.1	0.1	0.1	0.1	0.1
148°	0.0	0.1	0.1	0.1	0.1	0.1
148.5°	0.1	0.1	0.1	0.1	0.1	0.1
149°	0.1	0.1	0.1	0.1	0.1	0.1
149.5°	0.1	0.1	0.1	0.1	0.1	0.1
150°	0.1	0.1	0.1	0.1	0.1	0.1
150.5°	0.1	0.1	0.1	0.1	0.1	0.1
151°	0.1	0.1	0.1	0.1	0.1	0.1
151.5°	0.1	0.1	0.1	0.1	0.1	0.1
152°	0.1	0.1	0.1	0.1	0.1	0.1
152.5°	0.1	0.1	0.1	0.1	0.1	0.1
153°	0.1	0.1	0.1	0.1	0.1	0.1
153.5°	0.2	0.1	0.1	0.1	0.1	0.1
154°	0.2	0.1	0.1	0.1	0.1	0.1
154.5°	0.1	0.1	0.1	0.1	0.1	0.1
155°	0.1	0.1	0.1	0.1	0.1	0.1
155.5°	0.1	0.1	0.1	0.1	0.1	0.1
156°	0.1	0.1	0.1	0.1	0.1	0.1
156.5°	0.1	0.1	0.1	0.1	0.1	0.1
157°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.1	0.1	0.1	0.1	0.1	0.1
158°	0.1	0.1	0.1	0.1	0.1	0.1
158.5°	0.1	0.1	0.1	0.1	0.1	0.1
159°	0.1	0.1	0.1	0.1	0.1	0.1
159.5°	0.1	0.1	0.1	0.1	0.1	0.1
160°	0.1	0.1	0.1	0.1	0.1	0.1
160.5°	0.1	0.1	0.1	0.1	0.1	0.1
161°	0.1	0.1	0.1	0.1	0.1	0.1
161.5°	0.1	0.1	0.1	0.1	0.1	0.1
162°	0.1	0.1	0.1	0.1	0.1	0.1
162.5°	0.1	0.1	0.1	0.1	0.1	0.1
163°	0.1	0.1	0.1	0.1	0.1	0.1
163.5°	0.1	0.1	0.1	0.1	0.1	0.1
164°	0.1	0.1	0.1	0.1	0.1	0.1
164.5°	0.1	0.1	0.1	0.1	0.1	0.1
165°	0.1	0.1	0.1	0.1	0.1	0.1
165.5°	0.1	0.1	0.1	0.1	0.1	0.1
166°	0.1	0.1	0.1	0.1	0.1	0.1
166.5°	0.1	0.1	0.1	0.1	0.1	0.1
167°	0.1	0.1	0.1	0.1	0.1	0.1
167.5°	0.1	0.1	0.1	0.1	0.1	0.1
168°	0.1	0.1	0.1	0.1	0.1	0.1
168.5°	0.1	0.1	0.1	0.1	0.1	0.1
169°	0.1	0.1	0.1	0.1	0.1	0.1
169.5°	0.1	0.1	0.1	0.1	0.1	0.1
170°	0.1	0.1	0.1	0.1	0.1	0.1
170.5°	0.1	0.1	0.1	0.1	0.1	0.1
171°	0.1	0.1	0.1	0.1	0.1	0.1
171.5°	0.1	0.1	0.1	0.1	0.1	0.1
172°	0.1	0.1	0.1	0.1	0.1	0.1
172.5°	0.1	0.1	0.1	0.1	0.1	0.1
173°	0.1	0.1	0.1	0.1	0.1	0.1
173.5°	0.1	0.1	0.1	0.1	0.1	0.1
174°	0.1	0.1	0.2	0.1	0.1	0.1
174.5°	0.1	0.2	0.2	0.1	0.1	0.1
175°	0.1	0.2	0.2	0.1	0.1	0.1
175.5°	0.1	0.2	0.2	0.1	0.1	0.1
176°	0.1	0.3	0.2	0.1	0.1	0.1
176.5°	0.1	0.3	0.3	0.1	0.1	0.1
177°	0.1	0.4	0.4	0.1	0.1	0.1
177.5°	0.1	0.4	0.5	0.1	0.1	0.1
178°	0.1	0.3	0.5	0.1	0.1	0.1
178.5°	0.1	0.3	0.5	0.1	0.1	0.1
179°	0.1	0.3	0.5	0.1	0.1	0.1
179.5°	0.1	0.3	0.5	0.1	0.1	0.1



TEST NUMBER: P522069

CATALOG NUMBER: HLBLV4069FSE010MW-3000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.1	0.1	0.1	0.1	0.1	0.1

(END OF REPORT)