

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: P522072

Luminaire Tested: **HLBLV4069FSE010MW-5000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522072
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-5000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (48) 5000K CCT, 93 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

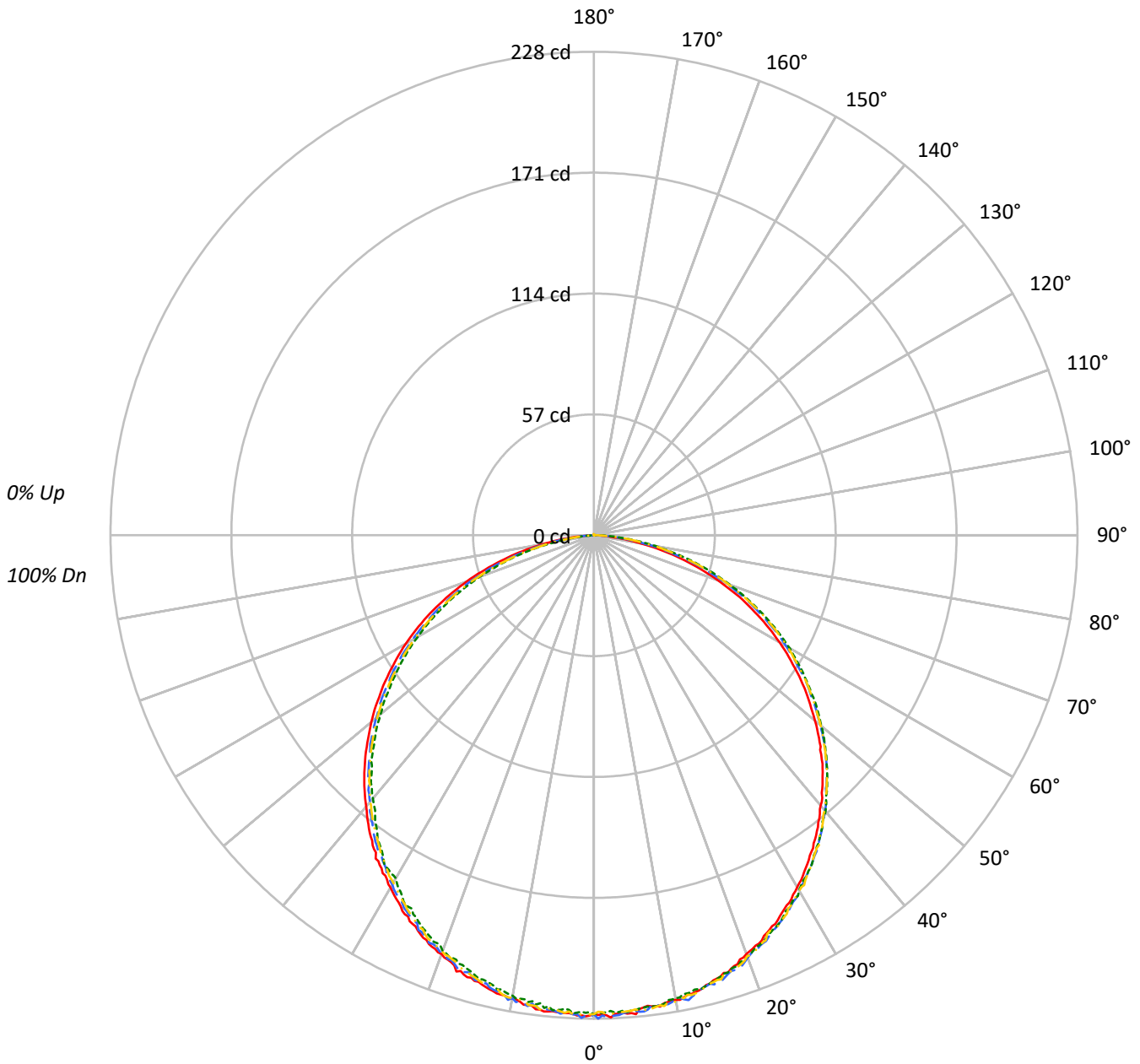
Lumens per Lamp: N/A
Luminaire Lumens: 650.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

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: P522072
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Luminous Intensity Polar Plot



0% Up
100% Dn

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2594	2594	2594	2594
5°	2613	2591	2597	2591
10°	2594	2585	2586	2572
15°	2584	2590	2587	2559
20°	2568	2584	2567	2549
25°	2563	2578	2563	2517
30°	2542	2564	2544	2477
35°	2524	2553	2533	2480
40°	2493	2547	2505	2431
45°	2476	2525	2481	2405
50°	2431	2503	2447	2347
55°	2386	2472	2406	2280
60°	2326	2446	2354	2207
65°	2231	2383	2271	2092
70°	2095	2296	2139	1927
75°	1877	2165	1952	1664
80°	1527	1951	1653	1243
85°	962	1634	1146	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	3.3
10°-20°	61.3	9.4
20°-30°	93.0	14.3
30°-40°	112.5	17.3
40°-50°	117.3	18.0
50°-60°	106.7	16.4
60°-70°	81.7	12.6
70°-80°	45.6	7.0
80°-90°	10.3	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°	175.7	27.0
0°-40°	288.2	44.3
0°-60°	512.1	78.8
0°-90°	649.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	226	226	226	226	226	
5°	227	225	225	225	227	21
15°	217	218	218	215	217	61
25°	202	204	202	199	202	93
35°	180	182	181	177	180	113
45°	152	156	153	148	152	117
55°	119	124	120	114	119	106
65°	82	88	84	77	82	81
75°	42	49	44	38	42	45
85°	7	12	9	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	225.9	225.9	225.9	225.9	225.9	225.9	225.9	225.9	225.9	225.9	225.9
0.5°	226.3	226.6	228.0	226.0	225.3	225.1	224.7	226.2	226.5	225.3	227.5
1°	226.0	226.3	226.5	225.1	225.3	225.9	224.9	225.4	226.9	226.9	226.7
1.5°	226.5	227.2	227.2	225.8	225.1	226.0	226.1	225.9	226.5	226.1	227.7
2°	227.6	228.6	227.0	227.2	224.5	226.2	226.0	225.9	226.6	225.9	226.0
2.5°	226.0	227.7	226.7	226.8	225.3	225.8	225.5	226.5	226.0	225.9	226.2
3°	225.9	226.2	226.6	226.6	225.1	226.2	225.2	226.2	225.7	226.1	225.5
3.5°	225.5	225.4	225.8	225.8	224.6	225.1	225.3	226.0	225.8	226.7	225.7
4°	226.2	226.0	225.5	226.0	225.4	226.0	225.0	225.3	225.7	226.5	226.2
4.5°	226.1	225.3	226.2	225.8	224.8	225.5	224.9	225.1	225.6	225.3	225.3
5°	226.7	225.1	225.2	225.8	224.8	225.2	224.4	224.8	225.3	224.8	224.9
5.5°	224.5	224.3	225.8	225.1	224.2	225.2	225.5	225.2	225.7	225.6	224.8
6°	223.9	224.9	225.8	225.1	224.0	224.8	225.9	225.4	225.8	225.1	224.7
6.5°	223.3	225.0	225.1	225.3	223.7	225.2	223.9	223.9	225.1	222.8	225.0
7°	223.9	224.9	223.4	225.2	223.9	225.1	224.9	223.9	225.3	223.9	224.1
7.5°	224.0	224.3	223.0	223.9	224.1	223.2	224.4	223.9	223.9	223.2	222.8
8°	224.5	223.9	224.1	224.6	223.7	223.0	223.9	223.7	223.7	222.5	224.2
8.5°	223.2	223.0	223.7	224.4	223.6	222.2	224.5	223.0	223.9	223.3	223.4
9°	222.9	222.1	223.9	223.7	222.0	223.4	223.1	223.1	222.8	222.5	222.7
9.5°	222.4	222.5	223.2	223.1	222.1	223.7	223.7	222.1	222.1	222.4	223.2
10°	222.5	223.2	221.8	223.2	221.7	222.1	223.2	222.4	221.8	222.0	221.6
10.5°	222.8	222.2	221.9	223.4	221.7	222.8	221.7	221.6	221.7	221.0	222.8
11°	222.0	221.0	223.0	221.9	220.5	222.1	222.5	222.0	221.1	220.7	220.9
11.5°	221.1	221.2	223.7	221.4	220.5	222.0	221.1	221.0	221.0	221.4	220.2
12°	221.2	220.6	222.5	222.1	220.4	221.0	221.7	220.2	220.9	218.7	219.8
12.5°	220.7	220.7	221.6	221.0	219.5	221.0	221.3	219.7	220.2	219.2	219.5
13°	220.3	220.7	220.6	220.5	219.7	219.5	221.1	219.1	219.6	219.0	218.9
13.5°	219.7	220.8	219.5	220.1	219.7	218.9	219.8	219.2	219.1	218.1	217.4
14°	218.6	220.0	219.1	219.1	218.9	219.0	219.8	218.2	218.4	217.7	217.7
14.5°	218.4	218.2	218.5	218.5	218.3	218.9	218.4	217.9	217.5	217.2	217.3
15°	217.4	217.1	219.3	217.4	217.9	218.1	218.1	217.2	217.6	216.4	217.1
15.5°	217.0	216.3	218.4	217.5	217.2	217.4	217.6	216.3	216.5	216.0	215.6
16°	216.5	216.3	218.6	217.3	216.5	217.0	217.9	216.3	216.8	215.3	214.4
16.5°	215.3	215.7	217.5	216.8	215.6	216.3	215.8	215.8	216.1	214.6	214.8
17°	215.8	215.7	216.3	216.2	215.7	216.1	215.6	215.7	214.9	214.4	213.6
17.5°	214.6	216.0	215.5	215.1	214.6	215.3	215.6	213.8	215.8	213.8	214.2
18°	213.7	214.6	215.6	214.9	214.2	214.3	215.2	214.2	213.3	213.2	212.6
18.5°	213.3	213.0	215.0	213.9	214.3	214.0	214.4	213.2	212.3	212.3	211.4
19°	211.6	212.1	214.6	213.1	212.7	213.1	213.7	212.1	211.7	211.8	211.4
19.5°	211.2	212.1	213.3	212.5	212.6	212.2	212.9	211.7	211.3	211.1	210.5
20°	210.2	211.4	212.1	211.8	211.5	211.6	211.2	211.2	210.1	210.0	210.1
20.5°	209.5	209.1	210.9	211.1	210.8	210.8	211.4	210.0	210.0	209.6	208.9
21°	208.9	209.1	210.0	210.2	209.8	209.8	210.7	209.3	208.9	207.9	207.7
21.5°	208.0	209.6	210.0	209.6	208.8	209.5	209.6	208.5	208.6	207.3	207.2
22°	207.7	208.2	208.9	209.4	208.5	208.3	209.0	207.6	207.9	207.0	207.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	206.8	207.2	208.3	208.2	207.8	207.3	207.8	207.0	206.6	206.1	205.8
23°	205.3	207.1	207.9	208.1	206.9	207.2	207.5	206.9	206.2	204.9	205.0
23.5°	204.5	205.9	206.6	206.8	205.6	205.8	205.0	205.8	205.2	204.4	204.0
24°	203.6	204.8	205.7	206.1	205.0	205.0	204.2	204.7	204.1	203.2	203.7
24.5°	202.6	204.1	204.5	205.1	204.1	204.6	204.2	204.0	202.8	202.1	201.0
25°	202.3	202.9	203.8	204.0	203.5	203.5	203.8	202.3	202.3	201.2	200.9
25.5°	201.2	201.9	202.8	203.5	202.9	202.4	203.5	201.9	201.7	200.5	199.9
26°	199.9	201.0	202.0	202.9	201.9	201.9	202.0	200.7	200.0	199.8	199.1
26.5°	198.9	200.4	201.0	201.6	200.6	201.2	201.2	200.3	199.8	199.3	198.1
27°	197.8	199.1	200.2	200.3	199.1	200.1	200.4	198.9	198.9	197.6	197.3
27.5°	196.8	197.7	199.2	199.5	198.5	199.2	198.5	197.7	197.4	196.4	195.6
28°	196.3	197.3	198.0	198.4	197.5	197.8	197.8	196.8	196.1	195.4	194.5
28.5°	195.2	195.7	196.8	197.3	196.3	197.0	196.8	195.7	195.3	194.7	193.9
29°	193.8	194.5	196.1	196.2	195.6	196.1	195.6	195.2	194.2	193.3	192.8
29.5°	192.9	194.0	195.1	194.8	195.5	194.9	194.5	193.1	193.1	191.5	191.8
30°	191.7	192.9	194.0	194.3	193.4	193.8	193.7	192.5	191.9	190.7	190.2
30.5°	190.6	191.4	192.6	193.1	192.2	192.8	192.7	191.9	191.0	189.9	189.3
31°	189.7	190.5	191.5	191.5	190.8	191.9	192.5	190.6	189.4	188.8	188.0
31.5°	188.5	189.4	190.3	190.3	190.1	190.8	190.8	188.5	188.3	187.5	187.1
32°	187.2	187.9	189.2	189.4	189.4	189.3	189.4	188.1	187.9	186.4	185.1
32.5°	186.0	186.9	188.2	188.4	188.0	188.5	187.7	187.0	186.3	185.4	184.0
33°	184.8	185.7	187.0	187.4	187.3	187.6	187.3	186.1	185.5	183.8	182.9
33.5°	183.6	185.0	186.0	186.2	186.2	186.2	186.2	184.5	184.3	182.8	181.5
34°	182.2	183.6	184.8	185.2	184.8	184.5	184.6	183.4	184.0	181.7	180.8
34.5°	181.1	182.4	183.6	183.6	183.1	183.4	183.3	182.6	181.5	180.6	179.9
35°	180.1	181.1	182.7	182.6	182.1	182.4	182.1	181.5	180.7	179.4	178.5
35.5°	178.5	179.7	181.7	181.5	180.8	181.3	181.1	180.1	179.7	177.7	177.5
36°	177.3	178.3	180.2	180.3	179.9	180.1	180.6	178.8	178.0	176.7	176.1
36.5°	176.2	177.1	178.7	179.0	178.7	178.7	178.5	177.5	176.9	175.7	174.7
37°	174.7	175.8	177.5	177.6	177.2	177.5	177.1	176.3	175.7	174.6	173.2
37.5°	173.5	174.4	176.2	176.0	176.0	176.1	176.4	175.0	174.3	173.1	171.6
38°	171.9	173.2	174.8	174.9	174.8	174.8	174.7	173.6	172.8	171.8	170.4
38.5°	170.8	171.9	173.6	173.6	172.9	173.6	173.4	172.3	171.4	170.4	168.9
39°	169.2	170.6	172.2	172.4	172.0	172.3	171.8	171.0	170.0	168.3	167.8
39.5°	167.5	169.4	170.7	170.8	171.1	170.9	170.2	169.7	168.4	167.6	166.3
40°	166.3	168.0	169.6	169.5	169.9	169.5	169.3	168.3	167.1	166.2	164.4
40.5°	165.4	166.5	168.3	168.0	168.5	168.2	167.9	166.9	165.8	164.4	163.1
41°	164.1	165.0	166.6	166.8	167.0	166.9	166.4	165.4	164.4	162.7	161.6
41.5°	162.1	163.6	165.3	165.5	165.1	165.5	165.1	163.9	163.0	161.5	160.5
42°	160.9	162.1	163.8	164.1	163.9	164.3	163.7	162.5	161.6	160.2	158.6
42.5°	159.5	160.5	161.9	162.8	162.7	162.8	162.4	160.9	160.2	158.6	157.7
43°	158.1	159.4	160.8	161.2	161.3	161.2	160.9	159.7	158.8	157.3	156.2
43.5°	156.6	158.1	159.4	159.8	159.8	159.8	159.5	158.3	157.3	155.8	154.6
44°	155.3	156.6	158.0	158.4	158.4	158.4	158.1	156.8	155.8	154.2	153.0
44.5°	153.9	155.0	156.5	157.0	156.9	157.1	156.7	155.4	154.4	152.7	151.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	152.5	153.5	155.1	155.4	155.5	155.6	155.2	153.9	152.8	151.3	149.9
45.5°	150.7	152.0	153.8	154.0	153.9	154.0	153.7	152.3	151.2	149.7	148.5
46°	148.9	150.5	152.1	152.6	152.5	152.6	152.1	150.7	149.9	148.2	146.8
46.5°	147.1	149.1	150.5	151.0	151.0	151.0	150.6	149.2	148.2	146.7	145.4
47°	146.2	147.2	149.1	149.5	149.4	149.5	149.1	147.7	146.5	145.1	144.2
47.5°	144.4	145.8	147.5	148.0	147.9	148.3	147.5	146.0	144.9	143.3	142.4
48°	142.8	144.3	146.2	146.6	146.3	146.6	145.8	144.5	143.4	141.7	140.7
48.5°	141.0	142.9	144.3	144.9	144.9	144.9	144.3	142.9	141.7	139.9	139.0
49°	139.4	141.0	142.8	143.5	143.4	143.2	142.8	141.4	140.1	138.5	137.4
49.5°	137.9	139.3	140.9	141.9	141.7	141.6	141.2	139.8	138.5	137.0	135.7
50°	136.1	137.8	139.4	140.1	140.1	140.0	139.6	138.3	137.0	135.4	134.0
50.5°	134.4	136.1	137.5	138.2	138.4	138.3	137.9	136.5	135.4	133.7	132.2
51°	132.7	134.4	136.0	136.8	136.9	137.0	136.1	135.1	133.8	131.9	130.8
51.5°	131.0	132.7	134.4	135.2	135.3	135.4	134.3	133.6	132.2	130.3	129.4
52°	129.4	130.9	132.8	133.6	133.8	133.7	132.7	131.8	130.5	128.5	127.5
52.5°	127.7	129.5	131.0	131.9	132.2	132.0	131.2	129.9	128.7	126.8	126.0
53°	126.1	127.9	129.4	130.1	130.5	130.3	129.6	128.3	126.9	125.2	124.1
53.5°	124.5	126.0	127.5	128.2	128.7	128.6	127.9	126.6	125.2	123.6	122.4
54°	122.9	124.3	125.9	126.4	126.7	127.0	126.2	125.2	123.6	122.0	120.6
54.5°	120.8	122.6	124.4	124.9	125.2	125.5	124.6	123.4	122.0	120.3	118.7
55°	119.2	121.0	122.7	123.2	123.5	123.8	122.9	121.5	120.2	118.5	117.2
55.5°	117.5	119.2	121.1	121.3	121.8	122.1	121.2	119.9	118.3	116.7	115.5
56°	115.6	117.5	119.4	119.7	120.1	120.3	119.4	118.0	116.6	115.0	113.8
56.5°	113.7	115.7	117.4	118.0	118.6	118.6	117.7	116.5	114.9	113.3	111.8
57°	111.9	113.8	115.3	116.2	116.9	116.9	115.8	114.6	113.1	111.5	110.2
57.5°	110.2	111.9	113.6	114.3	115.1	115.1	114.1	113.0	111.3	109.8	108.3
58°	108.4	110.2	111.9	112.6	113.3	113.2	112.2	111.1	109.7	107.8	106.5
58.5°	106.7	108.5	110.2	110.9	111.6	111.4	110.5	109.2	107.9	106.0	104.6
59°	104.8	106.6	108.3	109.3	109.8	109.7	109.0	107.3	106.2	104.1	102.7
59.5°	103.0	104.8	106.5	107.3	108.2	108.0	107.3	105.6	104.4	102.3	100.9
60°	101.3	102.9	104.8	105.6	106.5	106.2	105.5	103.6	102.5	100.5	98.8
60.5°	99.2	101.3	103.0	103.8	104.6	104.4	103.7	102.1	100.7	98.7	97.2
61°	97.4	99.3	101.1	102.0	102.7	102.5	101.8	100.2	98.8	96.8	95.2
61.5°	95.6	97.5	99.1	100.1	100.9	100.8	99.9	98.6	97.0	94.9	93.4
62°	93.7	95.6	97.4	98.2	99.1	99.0	98.1	96.5	95.1	93.0	91.3
62.5°	91.7	93.7	95.6	96.5	97.3	97.2	96.3	94.7	93.2	91.2	89.4
63°	89.8	91.7	93.6	94.6	95.4	95.3	94.4	92.6	91.3	89.3	87.5
63.5°	87.9	89.8	91.6	92.6	93.5	93.5	92.6	90.9	89.4	87.3	85.6
64°	86.0	87.8	89.8	90.5	91.6	91.5	90.7	88.8	87.4	85.4	83.9
64.5°	84.1	86.1	87.7	88.8	89.7	89.6	88.8	87.0	85.5	83.5	81.9
65°	82.1	84.2	85.8	87.0	87.7	87.6	87.0	85.1	83.6	81.7	79.8
65.5°	80.3	82.4	84.0	85.2	85.8	85.8	85.0	83.2	81.7	79.8	77.8
66°	78.3	80.4	82.1	83.1	84.0	83.7	83.1	81.2	79.7	77.7	75.9
66.5°	76.4	78.2	80.2	81.2	82.0	81.9	81.1	79.3	77.7	75.7	74.0
67°	74.6	76.5	78.2	79.1	80.0	80.0	79.1	77.3	75.7	73.8	71.9



TEST NUMBER: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	72.4	74.5	76.4	77.1	78.1	78.0	77.3	75.4	73.8	71.9	70.0
68°	70.3	72.4	74.6	75.4	76.3	76.1	75.2	73.3	71.7	69.9	68.0
68.5°	68.2	70.4	72.4	73.3	74.3	74.2	73.3	71.4	69.7	67.8	66.0
69°	66.3	68.4	70.3	71.2	72.2	72.2	71.2	69.4	67.8	65.8	64.1
69.5°	64.3	66.4	68.3	69.2	70.3	70.3	69.3	67.4	65.7	63.8	62.2
70°	62.4	64.3	66.4	67.3	68.4	68.2	67.3	65.5	63.7	62.0	60.1
70.5°	60.5	62.4	64.3	65.3	66.3	66.4	65.3	63.6	61.9	59.9	58.2
71°	58.5	60.4	62.4	63.3	64.3	64.3	63.4	61.7	59.9	57.9	56.2
71.5°	56.4	58.5	60.4	61.5	62.3	62.3	61.4	59.7	57.9	55.9	54.3
72°	54.3	56.4	58.3	59.5	60.5	60.4	59.4	57.7	55.8	53.9	52.3
72.5°	52.4	54.6	56.2	57.5	58.5	58.5	57.4	55.7	53.9	52.0	50.4
73°	50.4	52.5	54.2	55.5	56.6	56.4	55.3	53.7	51.8	50.1	48.3
73.5°	48.3	50.4	52.3	53.5	54.6	54.4	53.4	51.8	49.9	47.8	46.3
74°	46.5	48.3	50.4	51.4	52.7	52.5	51.4	49.7	47.9	46.0	44.3
74.5°	44.4	46.4	48.3	49.5	50.7	50.6	49.5	47.8	46.0	44.0	42.2
75°	42.3	44.4	46.3	47.5	48.8	48.6	47.5	45.9	44.0	42.0	40.2
75.5°	40.3	42.4	44.3	45.6	46.8	46.6	45.6	43.9	42.0	40.1	38.4
76°	38.5	40.4	42.3	43.5	44.8	44.6	43.7	41.9	40.1	38.2	36.5
76.5°	36.5	38.6	40.2	41.7	42.8	42.7	41.6	40.0	38.2	36.2	34.5
77°	34.4	36.5	38.4	39.7	40.9	40.7	39.7	38.1	36.3	34.4	32.6
77.5°	32.7	34.6	36.5	37.6	39.0	38.8	37.9	36.2	34.4	32.4	30.7
78°	30.7	32.7	34.5	35.8	37.0	36.8	35.9	34.2	32.5	30.5	28.8
78.5°	28.8	30.7	32.6	33.8	35.1	34.9	33.9	32.3	30.5	28.7	27.0
79°	27.0	28.9	30.6	31.9	33.2	33.0	32.1	30.5	28.6	26.8	25.1
79.5°	25.0	27.0	28.8	29.9	31.2	31.0	30.2	28.6	26.8	24.9	23.3
80°	23.1	25.1	27.0	28.0	29.5	29.3	28.4	26.8	25.0	23.2	21.5
80.5°	21.4	23.3	25.0	26.1	27.6	27.4	26.5	24.9	23.2	21.4	19.8
81°	19.6	21.4	23.1	24.3	25.8	25.6	24.7	23.2	21.4	19.6	18.1
81.5°	17.9	19.8	21.4	22.5	24.0	23.8	22.8	21.4	19.7	17.8	16.3
82°	16.2	18.0	19.6	20.7	22.2	21.9	21.1	19.7	18.0	16.2	14.8
82.5°	14.7	16.3	18.0	18.9	20.4	20.3	19.4	18.0	16.3	14.7	13.3
83°	13.1	14.8	16.2	17.3	18.7	18.6	17.7	16.3	14.8	13.1	11.8
83.5°	11.5	13.2	14.7	15.6	17.0	16.8	16.0	14.7	13.1	11.6	10.2
84°	10.1	11.6	13.1	14.1	15.4	15.2	14.5	13.3	11.7	10.1	8.8
84.5°	8.7	10.1	11.5	12.5	13.9	13.8	12.9	11.7	10.1	8.7	7.4
85°	7.3	8.8	10.1	11.0	12.4	12.3	11.4	10.2	8.7	7.3	6.1
85.5°	6.1	7.4	8.7	9.5	10.9	10.8	10.0	8.7	7.3	6.0	4.9
86°	4.9	6.1	7.3	8.2	9.4	9.3	8.5	7.4	6.1	4.8	3.8
86.5°	3.8	5.0	6.2	6.8	8.0	7.8	7.2	6.1	4.9	3.8	2.8
87°	2.9	3.8	4.9	5.7	6.7	6.6	5.9	4.9	3.8	2.7	1.9
87.5°	2.0	2.9	3.8	4.6	5.6	5.4	4.7	3.8	2.8	1.8	1.1
88°	1.3	2.1	2.9	3.5	4.3	4.3	3.6	2.8	1.9	1.1	0.5
88.5°	0.6	1.3	2.0	2.5	3.4	3.1	2.7	1.9	1.0	0.4	0.0
89°	0.2	0.7	1.3	1.8	2.3	2.2	1.7	1.2	0.4	0.0	0.0
89.5°	0.0	0.3	0.6	1.1	1.4	1.3	0.9	0.5	0.0	0.0	0.0



TEST NUMBER: P522072
 CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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	0.6	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: P522072
 CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.2	0.4
173.5°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
174°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
174.5°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
175°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
175.5°	0.1	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.4
176°	0.1	0.6	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: P522072
CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	225.9	225.9	225.9	225.9	225.9	225.9
0.5°	225.7	224.8	224.8	226.0	225.1	226.3
1°	225.6	225.3	224.9	225.8	225.6	226.0
1.5°	224.9	224.8	225.6	226.2	226.2	226.5
2°	225.5	225.2	224.8	225.6	226.5	227.6
2.5°	224.8	225.7	224.3	226.2	226.1	226.0
3°	225.3	224.1	224.6	224.9	225.8	225.9
3.5°	225.2	223.8	225.0	225.6	225.1	225.5
4°	224.8	224.4	223.8	225.1	224.2	226.2
4.5°	224.5	224.5	224.5	224.6	224.6	226.1
5°	224.8	224.8	225.2	223.8	224.6	226.7
5.5°	224.5	223.2	224.1	224.4	223.3	224.5
6°	222.8	224.2	224.2	225.3	223.4	223.9
6.5°	223.8	222.1	223.4	225.0	223.4	223.3
7°	224.1	223.0	222.8	223.7	224.4	223.9
7.5°	223.2	221.7	223.2	223.6	224.8	224.0
8°	223.3	222.3	222.8	223.7	223.2	224.5
8.5°	222.7	221.3	222.1	221.5	222.6	223.2
9°	221.9	221.3	222.2	221.9	220.7	222.9
9.5°	220.3	221.7	220.2	221.9	221.9	222.4
10°	221.5	220.6	219.9	221.6	221.2	222.5
10.5°	220.2	220.2	221.2	221.7	221.1	222.8
11°	220.2	219.5	220.0	221.3	221.1	222.0
11.5°	219.5	218.5	219.7	220.4	219.9	221.1
12°	218.8	219.1	219.6	218.8	218.8	221.2
12.5°	218.5	217.7	218.8	217.7	217.8	220.7
13°	218.4	217.0	218.1	217.7	217.7	220.3
13.5°	216.9	216.4	216.8	218.1	217.7	219.7
14°	217.0	216.0	216.3	217.5	217.2	218.6
14.5°	215.8	216.1	216.1	216.8	217.2	218.4
15°	215.6	215.3	215.1	216.1	216.8	217.4
15.5°	214.9	214.2	214.7	215.6	216.3	217.0
16°	214.9	213.4	213.7	214.9	214.4	216.5
16.5°	214.2	212.8	212.8	214.1	214.2	215.3
17°	212.9	211.9	212.6	213.5	213.8	215.8
17.5°	212.8	211.9	212.2	212.8	212.6	214.6
18°	211.8	210.5	211.5	211.4	212.1	213.7
18.5°	210.8	210.2	210.5	210.9	211.4	213.3
19°	211.2	210.0	210.0	210.1	210.8	211.6
19.5°	209.8	209.1	208.9	209.9	209.7	211.2
20°	208.9	208.6	208.6	209.1	209.6	210.2
20.5°	207.7	206.8	208.3	207.7	208.6	209.5
21°	206.7	206.1	206.8	207.5	208.0	208.9
21.5°	205.6	206.1	206.3	206.7	207.0	208.0
22°	205.7	204.9	204.7	206.1	205.8	207.7



TEST NUMBER: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	204.8	204.0	203.7	205.5	204.8	206.8
23°	203.8	202.9	203.3	204.2	204.5	205.3
23.5°	202.8	202.2	202.7	202.6	203.5	204.5
24°	200.8	201.0	201.9	202.4	203.0	203.6
24.5°	199.7	199.9	200.9	201.3	201.3	202.6
25°	199.2	198.7	199.4	200.3	200.3	202.3
25.5°	199.6	198.0	198.3	199.1	199.5	201.2
26°	198.2	195.9	197.5	198.2	198.6	199.9
26.5°	197.2	195.9	196.2	197.2	198.1	198.9
27°	195.8	195.7	195.2	195.8	197.3	197.8
27.5°	194.7	194.6	194.1	194.9	195.9	196.8
28°	193.5	192.6	193.3	193.8	194.6	196.3
28.5°	192.6	191.2	192.2	192.7	193.7	195.2
29°	191.4	190.3	190.6	191.3	192.4	193.8
29.5°	190.3	188.7	189.6	190.2	190.9	192.9
30°	189.1	186.8	188.9	189.2	189.9	191.7
30.5°	188.0	186.2	187.3	188.3	188.7	190.6
31°	186.7	186.1	186.4	187.4	187.8	189.7
31.5°	185.2	185.1	185.0	186.0	186.3	188.5
32°	184.1	184.6	183.3	184.8	185.3	187.2
32.5°	182.9	183.9	182.2	183.6	184.1	186.0
33°	181.8	182.2	181.1	182.3	182.9	184.8
33.5°	180.8	180.6	179.9	181.4	181.8	183.6
34°	179.7	179.1	178.7	180.0	180.4	182.2
34.5°	178.5	178.0	177.6	178.5	179.2	181.1
35°	177.1	176.9	176.2	177.3	177.9	180.1
35.5°	176.0	175.7	175.0	176.0	176.4	178.5
36°	174.6	173.8	173.7	174.8	175.1	177.3
36.5°	173.3	172.2	172.5	173.6	173.7	176.2
37°	171.9	170.9	171.3	172.2	172.5	174.7
37.5°	170.6	169.5	170.1	170.9	171.1	173.5
38°	169.3	167.6	168.8	169.6	169.8	171.9
38.5°	167.9	165.8	167.4	168.2	168.6	170.8
39°	166.2	164.6	165.9	166.9	167.2	169.2
39.5°	165.0	163.4	164.6	165.3	166.0	167.5
40°	163.4	162.2	163.0	164.1	164.6	166.3
40.5°	161.9	161.0	161.4	162.5	163.2	165.4
41°	160.6	159.7	160.0	161.1	162.0	164.1
41.5°	159.3	158.1	158.4	159.8	160.4	162.1
42°	157.7	157.2	157.0	158.1	159.0	160.9
42.5°	156.4	155.6	155.4	157.0	157.7	159.5
43°	154.9	153.7	153.8	155.1	156.0	158.1
43.5°	153.5	152.1	152.3	153.9	154.6	156.6
44°	152.1	150.8	151.2	152.1	153.3	155.3
44.5°	150.5	149.8	149.3	150.5	151.6	153.9



TEST NUMBER: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	149.0	148.1	147.7	149.3	150.2	152.5
45.5°	147.2	146.3	146.2	147.9	148.5	150.7
46°	145.8	144.7	144.8	146.1	147.1	148.9
46.5°	144.2	142.8	143.4	144.5	145.5	147.1
47°	142.4	141.4	141.7	142.9	143.9	146.2
47.5°	141.0	139.8	140.3	141.3	142.2	144.4
48°	139.3	138.4	138.5	139.7	140.7	142.8
48.5°	137.7	136.8	136.7	138.2	138.9	141.0
49°	136.0	135.0	135.1	136.6	137.3	139.4
49.5°	134.5	133.1	133.7	135.0	136.0	137.9
50°	132.8	131.4	131.9	133.4	134.3	136.1
50.5°	131.1	129.6	130.3	131.6	132.6	134.4
51°	129.3	128.3	128.8	129.9	130.9	132.7
51.5°	127.5	126.6	126.9	128.1	129.2	131.0
52°	125.9	124.8	125.1	126.4	127.5	129.4
52.5°	124.3	122.9	123.4	124.8	125.8	127.7
53°	122.6	121.0	121.8	123.0	124.1	126.1
53.5°	120.8	119.4	120.1	121.1	122.2	124.5
54°	119.2	117.8	118.2	119.3	120.1	122.9
54.5°	117.5	115.9	116.4	117.5	118.8	120.8
55°	115.7	113.9	114.6	115.8	116.9	119.2
55.5°	113.8	112.5	112.9	114.1	115.0	117.5
56°	112.1	110.7	111.1	112.2	113.3	115.6
56.5°	110.4	109.1	109.7	110.5	111.6	113.7
57°	108.6	107.2	107.6	108.7	110.1	111.9
57.5°	106.9	105.3	105.8	106.9	108.4	110.2
58°	105.1	103.6	103.9	105.1	106.5	108.4
58.5°	103.2	101.8	102.1	103.3	104.6	106.7
59°	101.4	100.0	100.1	101.4	102.7	104.8
59.5°	99.6	98.1	98.3	99.5	100.9	103.0
60°	97.7	96.1	96.4	97.7	99.0	101.3
60.5°	95.8	94.2	94.6	95.9	97.1	99.2
61°	93.9	92.3	92.7	93.8	95.3	97.4
61.5°	92.0	90.5	90.8	91.9	93.3	95.6
62°	90.2	88.6	89.1	90.0	91.4	93.7
62.5°	88.4	86.6	87.1	88.2	89.4	91.7
63°	86.3	84.8	85.1	86.3	87.6	89.8
63.5°	84.4	83.0	83.2	84.4	85.7	87.9
64°	82.5	81.0	81.2	82.4	83.8	86.0
64.5°	80.5	78.9	79.3	80.5	81.9	84.1
65°	78.6	77.0	77.4	78.6	80.0	82.1
65.5°	76.4	75.0	75.4	76.7	78.1	80.3
66°	74.5	73.2	73.5	74.6	76.1	78.3
66.5°	72.5	71.2	71.5	72.5	74.3	76.4
67°	70.5	69.2	69.6	70.8	72.2	74.6



TEST NUMBER: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	68.5	67.2	67.5	68.6	70.1	72.4
68°	66.6	65.3	65.4	66.6	68.2	70.3
68.5°	64.5	63.1	63.6	64.6	66.1	68.2
69°	62.6	61.3	61.5	62.8	64.1	66.3
69.5°	60.6	59.4	59.5	60.8	62.2	64.3
70°	58.7	57.4	57.7	58.7	60.2	62.4
70.5°	56.7	55.3	55.5	56.7	58.1	60.5
71°	54.7	53.4	53.6	54.8	56.2	58.5
71.5°	52.8	51.3	51.5	52.7	54.1	56.4
72°	50.7	49.2	49.5	50.7	52.3	54.3
72.5°	48.8	47.4	47.6	48.6	50.2	52.4
73°	46.7	45.3	45.5	46.6	48.2	50.4
73.5°	44.7	43.3	43.5	44.6	46.4	48.3
74°	42.7	41.5	41.6	42.7	44.3	46.5
74.5°	40.8	39.5	39.5	40.7	42.2	44.4
75°	38.9	37.5	37.6	38.8	40.2	42.3
75.5°	37.0	35.6	35.8	36.7	38.3	40.3
76°	35.1	33.6	33.7	34.8	36.3	38.5
76.5°	33.1	31.7	31.8	32.9	34.3	36.5
77°	31.3	29.8	29.9	31.0	32.4	34.4
77.5°	29.4	27.8	28.1	29.1	30.5	32.7
78°	27.5	26.0	26.1	27.2	28.6	30.7
78.5°	25.6	24.2	24.3	25.4	26.8	28.8
79°	23.9	22.4	22.6	23.5	24.9	27.0
79.5°	22.1	20.5	20.7	21.7	23.1	25.0
80°	20.3	18.8	18.9	19.9	21.2	23.1
80.5°	18.6	17.0	17.2	18.2	19.5	21.4
81°	16.9	15.4	15.6	16.5	17.9	19.6
81.5°	15.3	13.9	14.0	14.9	16.1	17.9
82°	13.8	12.3	12.4	13.3	14.7	16.2
82.5°	12.2	10.8	11.0	11.8	13.1	14.7
83°	10.8	9.4	9.5	10.3	11.5	13.1
83.5°	9.2	8.0	8.2	8.9	10.0	11.5
84°	7.8	6.7	6.8	7.5	8.6	10.1
84.5°	6.6	5.5	5.6	6.3	7.3	8.7
85°	5.3	4.4	4.4	5.0	6.1	7.3
85.5°	4.2	3.4	3.4	3.9	4.8	6.1
86°	3.1	2.4	2.6	3.0	3.8	4.9
86.5°	2.2	1.6	1.7	2.2	2.8	3.8
87°	1.3	1.0	1.0	1.3	2.0	2.9
87.5°	0.6	0.4	0.4	0.7	1.3	2.0
88°	0.0	0.2	0.1	0.3	0.6	1.3
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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072
 CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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: P522072

CATALOG NUMBER: HLBLV4069FSE010MW-5000K-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)