

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: P522071

Luminaire Tested: **HLBLV4069FSE010MW-4000K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522071
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-4000K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (48) 4000K CCT, 94 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

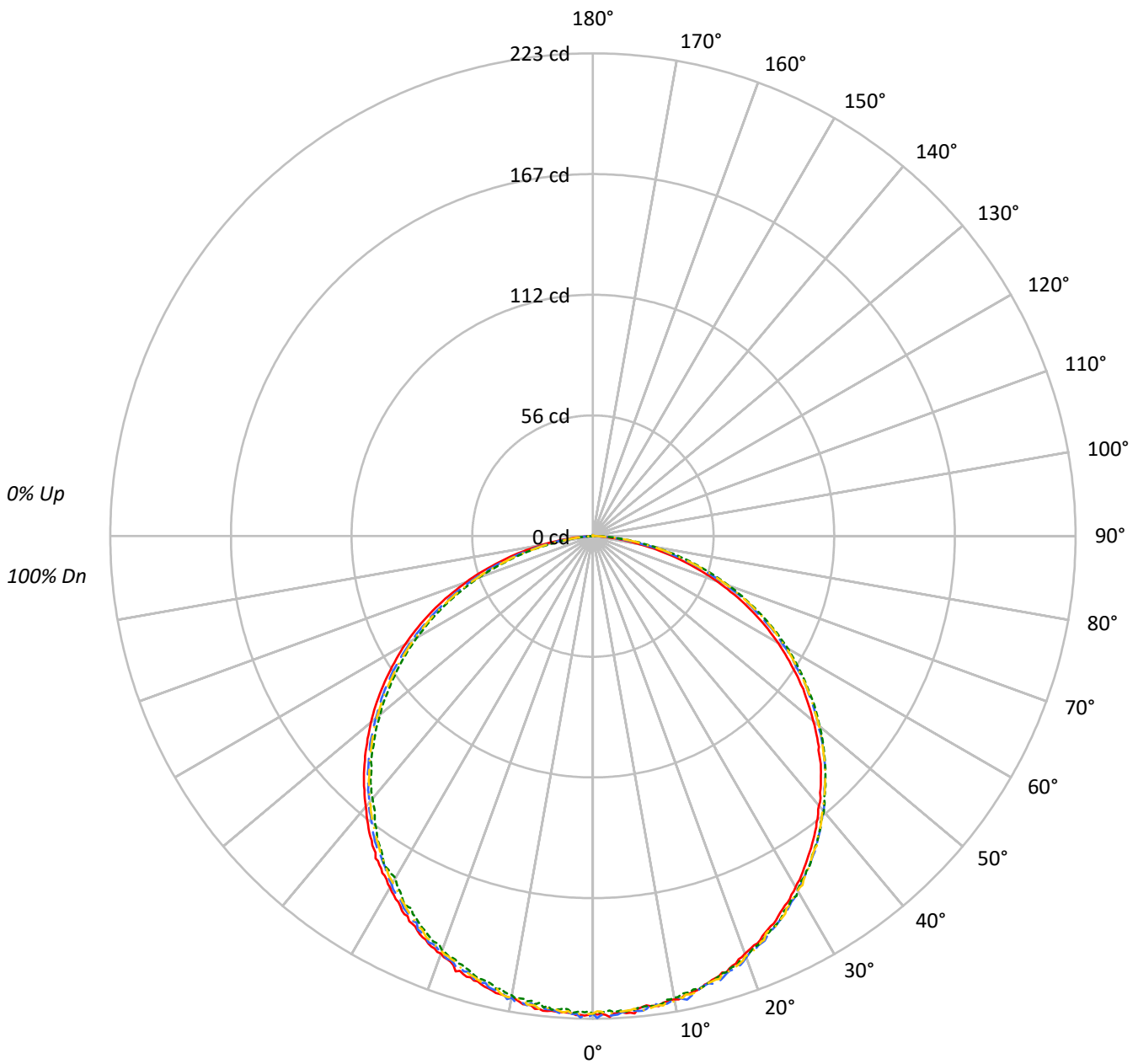
Lumens per Lamp: N/A
Luminaire Lumens: 635.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

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



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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	2534	2534	2534	2534
5°	2552	2531	2537	2532
10°	2535	2525	2527	2513
15°	2525	2530	2527	2501
20°	2510	2524	2509	2490
25°	2503	2519	2503	2459
30°	2483	2506	2486	2420
35°	2466	2494	2474	2422
40°	2436	2488	2446	2374
45°	2419	2467	2424	2350
50°	2376	2445	2392	2294
55°	2330	2414	2350	2228
60°	2271	2388	2301	2156
65°	2179	2328	2220	2043
70°	2045	2243	2088	1883
75°	1837	2116	1908	1624
80°	1494	1904	1613	1217
85°	949	1594	1120	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	3.3
10°-20°	59.9	9.4
20°-30°	90.9	14.3
30°-40°	109.9	17.3
40°-50°	114.6	18.0
50°-60°	104.2	16.4
60°-70°	79.8	12.6
70°-80°	44.6	7.0
80°-90°	10.0	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°	171.6	27.0
0°-40°	281.5	44.3
0°-60°	500.3	78.8
0°-90°	634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	635.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	221	221	221	221	221	
5°	221	220	220	220	221	21
15°	212	213	213	210	212	60
25°	198	199	198	194	198	91
35°	176	178	176	173	176	110
45°	149	152	149	145	149	115
55°	116	121	117	111	116	104
65°	80	86	82	75	80	79
75°	41	48	43	37	41	44
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
0.5°	221.1	221.4	222.7	220.8	220.1	219.9	219.5	221.0	221.2	220.1	222.3
1°	220.8	221.1	221.3	219.9	220.1	220.7	219.7	220.2	221.6	221.7	221.4
1.5°	221.2	221.9	221.9	220.6	219.9	220.8	220.9	220.7	221.2	220.9	222.5
2°	222.3	223.3	221.8	222.0	219.3	221.0	220.8	220.7	221.4	220.7	220.8
2.5°	220.8	222.5	221.5	221.6	220.1	220.6	220.3	221.2	220.8	220.7	221.0
3°	220.7	221.0	221.4	221.4	219.9	221.0	220.0	221.0	220.5	220.9	220.3
3.5°	220.3	220.2	220.5	220.5	219.4	219.9	220.1	220.8	220.5	221.5	220.5
4°	221.0	220.8	220.3	220.8	220.2	220.8	219.8	220.1	220.5	221.3	221.0
4.5°	220.9	220.1	221.0	220.6	219.6	220.3	219.7	219.9	220.4	220.1	220.1
5°	221.4	219.9	220.0	220.6	219.6	220.0	219.2	219.7	220.1	219.6	219.7
5.5°	219.3	219.1	220.5	219.9	219.0	220.0	220.3	220.0	220.5	220.4	219.6
6°	218.8	219.7	220.5	219.9	218.8	219.6	220.7	220.2	220.5	219.9	219.5
6.5°	218.2	219.8	219.9	220.1	218.6	220.0	218.8	218.7	219.9	217.7	219.8
7°	218.8	219.7	218.2	220.0	218.7	219.9	219.7	218.8	220.1	218.8	219.0
7.5°	218.8	219.1	217.8	218.8	219.0	218.0	219.2	218.8	218.7	218.0	217.7
8°	219.3	218.8	218.9	219.5	218.5	217.9	218.8	218.5	218.5	217.4	219.0
8.5°	218.1	217.8	218.6	219.2	218.4	217.1	219.3	217.8	218.7	218.2	218.2
9°	217.7	217.0	218.8	218.5	216.9	218.2	218.0	218.0	217.7	217.3	217.5
9.5°	217.3	217.4	218.0	218.0	217.0	218.5	218.6	216.9	216.9	217.3	218.0
10°	217.4	218.0	216.7	218.1	216.6	217.0	218.1	217.3	216.7	216.9	216.5
10.5°	217.7	217.1	216.8	218.2	216.6	217.7	216.6	216.5	216.6	215.9	217.6
11°	216.9	215.9	217.8	216.8	215.4	216.9	217.4	216.9	216.0	215.6	215.8
11.5°	216.0	216.1	218.6	216.2	215.4	216.9	216.0	215.9	215.9	216.3	215.2
12°	216.1	215.5	217.4	217.0	215.4	215.9	216.6	215.1	215.8	213.7	214.7
12.5°	215.6	215.6	216.5	215.9	214.5	215.9	216.2	214.7	215.1	214.1	214.4
13°	215.2	215.6	215.5	215.4	214.7	214.4	216.0	214.0	214.5	213.9	213.9
13.5°	214.6	215.7	214.4	215.0	214.7	213.9	214.7	214.1	214.1	213.0	212.4
14°	213.6	214.9	214.0	214.1	213.9	213.9	214.7	213.2	213.4	212.7	212.7
14.5°	213.3	213.2	213.4	213.4	213.2	213.9	213.3	212.9	212.5	212.2	212.3
15°	212.4	212.1	214.2	212.4	212.8	213.0	213.0	212.2	212.6	211.4	212.1
15.5°	212.0	211.3	213.4	212.5	212.2	212.4	212.6	211.3	211.5	211.0	210.6
16°	211.5	211.3	213.5	212.3	211.5	211.9	212.8	211.3	211.8	210.4	209.5
16.5°	210.3	210.7	212.5	211.8	210.6	211.3	210.8	210.9	211.1	209.7	209.8
17°	210.9	210.7	211.3	211.2	210.7	211.1	210.7	210.7	210.0	209.4	208.7
17.5°	209.6	211.0	210.5	210.1	209.7	210.3	210.7	208.9	210.9	208.9	209.3
18°	208.7	209.6	210.6	209.9	209.2	209.4	210.2	209.3	208.4	208.3	207.7
18.5°	208.3	208.1	210.0	208.9	209.4	209.0	209.5	208.3	207.4	207.4	206.6
19°	206.8	207.2	209.6	208.2	207.8	208.2	208.8	207.2	206.8	206.9	206.6
19.5°	206.3	207.2	208.4	207.6	207.7	207.3	208.0	206.8	206.4	206.2	205.7
20°	205.4	206.5	207.2	206.9	206.6	206.7	206.3	206.3	205.3	205.1	205.3
20.5°	204.6	204.2	206.0	206.2	205.9	205.9	206.6	205.2	205.2	204.7	204.0
21°	204.0	204.2	205.2	205.4	204.9	204.9	205.8	204.4	204.1	203.1	202.9
21.5°	203.2	204.7	205.1	204.7	204.0	204.6	204.7	203.7	203.8	202.5	202.4
22°	202.9	203.4	204.0	204.6	203.7	203.5	204.2	202.8	203.1	202.3	202.6



TEST NUMBER: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	202.0	202.4	203.5	203.4	203.0	202.5	203.0	202.3	201.8	201.4	201.0
23°	200.6	202.3	203.1	203.3	202.1	202.5	202.7	202.1	201.4	200.2	200.3
23.5°	199.8	201.2	201.8	202.0	200.9	201.0	200.3	201.1	200.5	199.7	199.3
24°	198.9	200.1	201.0	201.3	200.3	200.3	199.5	199.9	199.4	198.5	199.0
24.5°	198.0	199.4	199.8	200.3	199.4	199.9	199.5	199.3	198.1	197.5	196.3
25°	197.6	198.2	199.1	199.3	198.8	198.8	199.1	197.6	197.6	196.6	196.3
25.5°	196.6	197.3	198.2	198.8	198.2	197.8	198.8	197.2	197.1	195.9	195.3
26°	195.3	196.3	197.3	198.2	197.3	197.2	197.3	196.1	195.4	195.2	194.5
26.5°	194.3	195.8	196.3	196.9	196.0	196.6	196.6	195.6	195.2	194.7	193.5
27°	193.3	194.5	195.6	195.6	194.5	195.5	195.8	194.3	194.3	193.0	192.8
27.5°	192.3	193.2	194.6	194.9	193.9	194.6	193.9	193.1	192.8	191.9	191.1
28°	191.7	192.8	193.5	193.9	193.0	193.3	193.3	192.3	191.5	190.9	190.0
28.5°	190.7	191.1	192.3	192.8	191.7	192.4	192.2	191.1	190.8	190.2	189.4
29°	189.3	190.0	191.6	191.7	191.1	191.5	191.1	190.7	189.7	188.9	188.3
29.5°	188.5	189.6	190.6	190.3	191.0	190.4	190.0	188.6	188.7	187.0	187.4
30°	187.3	188.5	189.5	189.8	189.0	189.3	189.2	188.1	187.5	186.3	185.8
30.5°	186.2	187.0	188.2	188.7	187.8	188.3	188.3	187.5	186.6	185.5	184.9
31°	185.3	186.1	187.1	187.0	186.4	187.5	188.1	186.2	185.1	184.4	183.7
31.5°	184.2	185.1	185.9	185.9	185.7	186.4	186.4	184.1	184.0	183.2	182.7
32°	182.9	183.6	184.9	185.1	185.0	184.9	185.1	183.8	183.6	182.1	180.8
32.5°	181.7	182.6	183.9	184.0	183.6	184.2	183.4	182.7	182.0	181.1	179.7
33°	180.6	181.4	182.7	183.1	183.0	183.3	183.0	181.8	181.2	179.6	178.6
33.5°	179.3	180.7	181.7	181.9	181.9	181.9	181.9	180.2	180.0	178.6	177.4
34°	178.0	179.4	180.6	181.0	180.6	180.2	180.4	179.1	179.7	177.5	176.6
34.5°	176.9	178.2	179.4	179.3	178.9	179.2	179.1	178.4	177.4	176.4	175.8
35°	175.9	176.9	178.5	178.4	177.9	178.2	177.9	177.3	176.5	175.2	174.4
35.5°	174.4	175.6	177.5	177.3	176.7	177.1	176.9	175.9	175.5	173.6	173.4
36°	173.3	174.2	176.1	176.1	175.7	176.0	176.4	174.7	173.9	172.6	172.0
36.5°	172.1	173.1	174.6	174.8	174.6	174.6	174.3	173.4	172.8	171.6	170.7
37°	170.7	171.8	173.4	173.5	173.1	173.4	173.0	172.2	171.6	170.6	169.2
37.5°	169.5	170.4	172.2	172.0	171.9	172.0	172.4	170.9	170.3	169.1	167.7
38°	167.9	169.2	170.8	170.9	170.8	170.8	170.7	169.6	168.8	167.8	166.4
38.5°	166.8	167.9	169.6	169.6	169.0	169.6	169.4	168.3	167.5	166.5	165.0
39°	165.3	166.6	168.2	168.4	168.1	168.3	167.9	167.0	166.1	164.4	163.9
39.5°	163.6	165.5	166.8	166.8	167.2	167.0	166.3	165.8	164.5	163.7	162.5
40°	162.5	164.1	165.7	165.5	166.0	165.5	165.4	164.4	163.2	162.3	160.6
40.5°	161.6	162.7	164.5	164.1	164.7	164.3	164.0	163.1	161.9	160.6	159.3
41°	160.3	161.2	162.7	163.0	163.2	163.0	162.5	161.6	160.6	158.9	157.9
41.5°	158.3	159.8	161.5	161.7	161.2	161.7	161.3	160.2	159.2	157.8	156.8
42°	157.2	158.4	160.0	160.3	160.2	160.5	160.0	158.8	157.8	156.5	154.9
42.5°	155.8	156.8	158.2	159.0	158.9	159.0	158.7	157.2	156.5	155.0	154.0
43°	154.4	155.7	157.1	157.5	157.6	157.5	157.2	156.0	155.1	153.7	152.6
43.5°	153.0	154.5	155.7	156.1	156.1	156.1	155.9	154.6	153.7	152.2	151.1
44°	151.7	153.0	154.4	154.8	154.7	154.8	154.4	153.2	152.2	150.6	149.5
44.5°	150.3	151.4	152.9	153.4	153.3	153.5	153.1	151.8	150.8	149.2	147.9



TEST NUMBER: P522071
 CATALOG NUMBER: HLBLV4069FSE010MW-400K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	149.0	149.9	151.5	151.8	151.9	152.0	151.6	150.3	149.3	147.8	146.4
45.5°	147.2	148.5	150.3	150.5	150.4	150.5	150.2	148.8	147.7	146.2	145.1
46°	145.4	147.1	148.6	149.0	149.0	149.0	148.6	147.2	146.4	144.8	143.4
46.5°	143.7	145.6	147.1	147.5	147.5	147.5	147.1	145.8	144.8	143.3	142.1
47°	142.8	143.8	145.6	146.0	146.0	146.1	145.6	144.3	143.1	141.7	140.8
47.5°	141.0	142.4	144.1	144.6	144.5	144.9	144.1	142.6	141.5	140.0	139.1
48°	139.5	141.0	142.8	143.2	143.0	143.2	142.5	141.1	140.1	138.4	137.4
48.5°	137.8	139.6	141.0	141.5	141.6	141.5	141.0	139.6	138.5	136.7	135.8
49°	136.2	137.8	139.5	140.2	140.1	139.9	139.5	138.1	136.9	135.3	134.2
49.5°	134.7	136.1	137.6	138.7	138.5	138.3	138.0	136.6	135.3	133.8	132.6
50°	133.0	134.6	136.2	136.9	136.9	136.7	136.3	135.1	133.9	132.2	130.9
50.5°	131.3	132.9	134.4	135.0	135.2	135.1	134.7	133.3	132.2	130.6	129.2
51°	129.7	131.3	132.9	133.6	133.7	133.8	132.9	132.0	130.7	128.9	127.8
51.5°	128.0	129.7	131.3	132.0	132.2	132.3	131.2	130.5	129.1	127.3	126.4
52°	126.4	127.9	129.7	130.5	130.7	130.6	129.7	128.8	127.5	125.6	124.5
52.5°	124.7	126.5	128.0	128.8	129.1	129.0	128.2	126.9	125.8	123.9	123.1
53°	123.2	124.9	126.4	127.1	127.5	127.3	126.6	125.4	124.0	122.3	121.2
53.5°	121.6	123.1	124.6	125.3	125.7	125.6	124.9	123.7	122.4	120.7	119.6
54°	120.1	121.4	123.0	123.5	123.8	124.1	123.3	122.4	120.7	119.1	117.8
54.5°	118.1	119.8	121.5	122.0	122.4	122.6	121.7	120.6	119.1	117.5	116.0
55°	116.4	118.2	119.9	120.4	120.6	120.9	120.1	118.7	117.4	115.7	114.5
55.5°	114.8	116.5	118.3	118.5	119.0	119.3	118.4	117.1	115.6	114.0	112.9
56°	112.9	114.8	116.6	116.9	117.4	117.5	116.7	115.3	114.0	112.3	111.2
56.5°	111.1	113.0	114.7	115.3	115.9	115.9	115.0	113.8	112.3	110.7	109.2
57°	109.3	111.2	112.6	113.5	114.2	114.2	113.1	112.0	110.5	108.9	107.6
57.5°	107.7	109.3	111.0	111.7	112.5	112.5	111.4	110.4	108.8	107.3	105.8
58°	105.9	107.6	109.3	110.0	110.7	110.6	109.7	108.5	107.1	105.4	104.0
58.5°	104.3	106.0	107.7	108.3	109.0	108.8	108.0	106.7	105.4	103.5	102.2
59°	102.4	104.1	105.8	106.8	107.3	107.1	106.5	104.8	103.7	101.7	100.3
59.5°	100.6	102.4	104.1	104.8	105.7	105.5	104.8	103.2	101.9	99.9	98.5
60°	98.9	100.5	102.4	103.2	104.0	103.7	103.0	101.2	100.2	98.2	96.6
60.5°	96.9	98.9	100.6	101.4	102.2	102.0	101.3	99.7	98.4	96.4	95.0
61°	95.2	97.0	98.8	99.6	100.3	100.2	99.4	97.9	96.6	94.6	93.0
61.5°	93.4	95.3	96.8	97.8	98.5	98.5	97.6	96.3	94.7	92.7	91.2
62°	91.6	93.4	95.1	95.9	96.8	96.7	95.9	94.3	92.9	90.9	89.2
62.5°	89.6	91.5	93.4	94.2	95.1	94.9	94.1	92.5	91.0	89.1	87.3
63°	87.8	89.6	91.4	92.5	93.2	93.1	92.3	90.5	89.2	87.3	85.4
63.5°	85.9	87.8	89.5	90.4	91.3	91.3	90.5	88.8	87.3	85.3	83.7
64°	84.0	85.8	87.7	88.4	89.5	89.4	88.6	86.7	85.4	83.4	82.0
64.5°	82.2	84.1	85.7	86.8	87.6	87.5	86.8	85.0	83.5	81.6	80.0
65°	80.2	82.2	83.8	85.0	85.7	85.6	85.0	83.2	81.7	79.8	77.9
65.5°	78.4	80.5	82.1	83.3	83.9	83.8	83.0	81.3	79.8	77.9	76.0
66°	76.5	78.5	80.2	81.2	82.0	81.7	81.1	79.3	77.9	75.9	74.2
66.5°	74.7	76.4	78.3	79.3	80.1	80.0	79.2	77.5	75.9	74.0	72.3
67°	72.9	74.7	76.4	77.3	78.2	78.1	77.3	75.5	74.0	72.1	70.3



TEST NUMBER: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	70.7	72.8	74.7	75.3	76.3	76.2	75.5	73.6	72.1	70.2	68.4
68°	68.6	70.8	72.9	73.7	74.5	74.4	73.4	71.7	70.1	68.2	66.5
68.5°	66.7	68.8	70.7	71.7	72.5	72.5	71.6	69.7	68.1	66.2	64.5
69°	64.8	66.8	68.7	69.5	70.6	70.6	69.6	67.8	66.2	64.3	62.6
69.5°	62.8	64.8	66.7	67.6	68.7	68.6	67.7	65.8	64.2	62.3	60.8
70°	60.9	62.8	64.8	65.8	66.8	66.7	65.8	64.0	62.2	60.5	58.8
70.5°	59.1	60.9	62.8	63.8	64.8	64.8	63.8	62.1	60.5	58.5	56.8
71°	57.1	59.0	60.9	61.8	62.8	62.8	61.9	60.3	58.5	56.6	54.9
71.5°	55.1	57.2	59.0	60.0	60.9	60.9	60.0	58.3	56.6	54.6	53.0
72°	53.1	55.1	57.0	58.1	59.1	59.0	58.1	56.4	54.5	52.7	51.1
72.5°	51.2	53.3	54.9	56.2	57.2	57.1	56.1	54.5	52.6	50.8	49.2
73°	49.2	51.2	53.0	54.2	55.3	55.1	54.0	52.5	50.6	48.9	47.2
73.5°	47.2	49.3	51.1	52.3	53.3	53.2	52.1	50.6	48.8	46.7	45.2
74°	45.4	47.2	49.3	50.2	51.5	51.3	50.2	48.6	46.8	45.0	43.3
74.5°	43.3	45.3	47.2	48.3	49.5	49.4	48.3	46.7	44.9	43.0	41.2
75°	41.4	43.4	45.2	46.4	47.7	47.5	46.4	44.8	43.0	41.0	39.3
75.5°	39.4	41.4	43.3	44.6	45.7	45.5	44.6	42.9	41.1	39.2	37.5
76°	37.6	39.4	41.3	42.5	43.8	43.5	42.6	40.9	39.2	37.3	35.6
76.5°	35.6	37.7	39.3	40.7	41.8	41.7	40.7	39.0	37.3	35.3	33.7
77°	33.6	35.7	37.5	38.8	39.9	39.7	38.8	37.3	35.5	33.6	31.8
77.5°	31.9	33.8	35.6	36.8	38.1	37.9	37.0	35.3	33.6	31.7	30.0
78°	30.0	31.9	33.7	34.9	36.2	36.0	35.1	33.4	31.7	29.8	28.2
78.5°	28.2	30.0	31.8	33.0	34.3	34.1	33.2	31.6	29.8	28.0	26.4
79°	26.3	28.3	29.9	31.1	32.4	32.2	31.3	29.8	28.0	26.1	24.6
79.5°	24.4	26.3	28.1	29.2	30.5	30.3	29.5	28.0	26.2	24.4	22.8
80°	22.6	24.6	26.4	27.4	28.8	28.6	27.7	26.1	24.4	22.7	21.0
80.5°	20.9	22.7	24.4	25.5	27.0	26.7	25.9	24.4	22.7	20.9	19.4
81°	19.1	20.9	22.6	23.7	25.2	25.0	24.1	22.7	20.9	19.2	17.7
81.5°	17.5	19.3	20.9	22.0	23.4	23.3	22.3	20.9	19.2	17.4	16.0
82°	15.8	17.6	19.2	20.2	21.7	21.4	20.6	19.2	17.5	15.8	14.5
82.5°	14.3	15.9	17.5	18.5	19.9	19.8	19.0	17.5	15.9	14.4	13.0
83°	12.8	14.5	15.8	16.9	18.2	18.2	17.3	16.0	14.5	12.8	11.5
83.5°	11.3	12.9	14.3	15.3	16.7	16.4	15.6	14.4	12.8	11.3	10.0
84°	9.8	11.3	12.8	13.8	15.0	14.9	14.2	13.0	11.4	9.9	8.6
84.5°	8.5	9.9	11.3	12.2	13.6	13.5	12.6	11.4	9.9	8.5	7.2
85°	7.2	8.6	9.8	10.7	12.1	12.0	11.1	10.0	8.5	7.2	6.0
85.5°	6.0	7.2	8.5	9.3	10.6	10.5	9.8	8.5	7.2	5.9	4.8
86°	4.8	6.0	7.1	8.0	9.2	9.1	8.3	7.2	5.9	4.7	3.7
86.5°	3.8	4.8	6.1	6.7	7.8	7.6	7.0	5.9	4.8	3.7	2.7
87°	2.8	3.8	4.8	5.5	6.6	6.4	5.7	4.8	3.7	2.7	1.8
87.5°	1.9	2.9	3.8	4.5	5.5	5.3	4.6	3.7	2.7	1.8	1.1
88°	1.2	2.0	2.8	3.4	4.2	4.2	3.5	2.7	1.8	1.1	0.5
88.5°	0.6	1.3	1.9	2.5	3.3	3.1	2.7	1.8	1.0	0.4	0.0
89°	0.2	0.7	1.2	1.8	2.3	2.1	1.6	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: P522071
 CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071
 CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	220.7	220.7	220.7	220.7	220.7	220.7
0.5°	220.5	219.6	219.6	220.8	219.9	221.1
1°	220.4	220.1	219.7	220.6	220.4	220.8
1.5°	219.7	219.6	220.4	221.0	221.0	221.2
2°	220.3	220.0	219.7	220.4	221.3	222.3
2.5°	219.6	220.5	219.1	221.0	220.9	220.8
3°	220.1	219.0	219.5	219.7	220.6	220.7
3.5°	220.0	218.6	219.8	220.4	219.9	220.3
4°	219.6	219.2	218.6	219.9	219.0	221.0
4.5°	219.3	219.3	219.3	219.4	219.4	220.9
5°	219.7	219.7	220.0	218.6	219.5	221.4
5.5°	219.3	218.1	218.9	219.2	218.2	219.3
6°	217.7	219.0	219.0	220.1	218.2	218.8
6.5°	218.6	217.0	218.2	219.8	218.2	218.2
7°	218.9	217.9	217.7	218.6	219.2	218.8
7.5°	218.1	216.6	218.0	218.4	219.7	218.8
8°	218.2	217.1	217.7	218.5	218.1	219.3
8.5°	217.5	216.2	216.9	216.4	217.5	218.1
9°	216.8	216.2	217.1	216.8	215.6	217.7
9.5°	215.2	216.6	215.2	216.8	216.8	217.3
10°	216.4	215.5	214.8	216.5	216.1	217.4
10.5°	215.1	215.2	216.1	216.6	216.0	217.7
11°	215.2	214.5	214.9	216.2	216.0	216.9
11.5°	214.5	213.4	214.7	215.4	214.8	216.0
12°	213.7	214.0	214.5	213.7	213.7	216.1
12.5°	213.4	212.6	213.7	212.7	212.8	215.6
13°	213.3	211.9	213.0	212.7	212.7	215.2
13.5°	211.9	211.4	211.8	213.0	212.6	214.6
14°	212.0	211.1	211.3	212.5	212.2	213.6
14.5°	210.9	211.1	211.1	211.8	212.2	213.3
15°	210.7	210.4	210.1	211.1	211.8	212.4
15.5°	210.0	209.3	209.8	210.6	211.3	212.0
16°	209.9	208.5	208.8	210.0	209.5	211.5
16.5°	209.3	207.9	207.9	209.2	209.2	210.3
17°	208.0	207.0	207.6	208.6	208.9	210.9
17.5°	207.9	207.0	207.3	207.9	207.6	209.6
18°	206.9	205.7	206.6	206.5	207.2	208.7
18.5°	205.9	205.3	205.7	206.1	206.5	208.3
19°	206.4	205.1	205.1	205.3	205.9	206.8
19.5°	204.9	204.2	204.0	205.1	204.9	206.3
20°	204.0	203.8	203.8	204.2	204.8	205.4
20.5°	202.9	202.0	203.5	202.9	203.8	204.6
21°	201.9	201.4	202.0	202.7	203.2	204.0
21.5°	200.9	201.3	201.6	201.9	202.3	203.2
22°	201.0	200.2	199.9	201.3	201.0	202.9



TEST NUMBER: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	200.1	199.3	199.0	200.8	200.1	202.0
23°	199.1	198.2	198.6	199.5	199.7	200.6
23.5°	198.1	197.5	198.0	198.0	198.8	199.8
24°	196.2	196.4	197.3	197.8	198.3	198.9
24.5°	195.1	195.3	196.3	196.7	196.7	198.0
25°	194.6	194.1	194.8	195.6	195.7	197.6
25.5°	195.0	193.4	193.7	194.5	194.9	196.6
26°	193.6	191.4	192.9	193.7	194.0	195.3
26.5°	192.6	191.4	191.7	192.6	193.5	194.3
27°	191.3	191.1	190.7	191.3	192.8	193.3
27.5°	190.2	190.1	189.6	190.4	191.4	192.3
28°	189.0	188.2	188.9	189.3	190.1	191.7
28.5°	188.1	186.8	187.8	188.3	189.2	190.7
29°	187.0	185.9	186.2	186.8	187.9	189.3
29.5°	185.9	184.3	185.3	185.8	186.5	188.5
30°	184.7	182.5	184.5	184.9	185.5	187.3
30.5°	183.7	181.9	183.0	184.0	184.3	186.2
31°	182.4	181.8	182.1	183.1	183.5	185.3
31.5°	181.0	180.8	180.7	181.7	182.0	184.2
32°	179.9	180.4	179.1	180.6	181.0	182.9
32.5°	178.6	179.7	178.0	179.4	179.9	181.7
33°	177.6	178.0	176.9	178.1	178.7	180.6
33.5°	176.6	176.4	175.8	177.2	177.6	179.3
34°	175.5	175.0	174.6	175.9	176.2	178.0
34.5°	174.4	173.9	173.5	174.4	175.0	176.9
35°	173.1	172.8	172.2	173.2	173.8	175.9
35.5°	171.9	171.7	170.9	172.0	172.4	174.4
36°	170.5	169.8	169.7	170.7	171.1	173.3
36.5°	169.3	168.2	168.5	169.6	169.7	172.1
37°	167.9	167.0	167.3	168.2	168.5	170.7
37.5°	166.7	165.5	166.2	167.0	167.2	169.5
38°	165.4	163.8	164.9	165.7	165.9	167.9
38.5°	164.0	162.0	163.5	164.3	164.7	166.8
39°	162.4	160.8	162.1	163.1	163.3	165.3
39.5°	161.2	159.6	160.8	161.5	162.2	163.6
40°	159.6	158.4	159.2	160.4	160.8	162.5
40.5°	158.2	157.3	157.6	158.8	159.5	161.6
41°	156.9	156.1	156.3	157.4	158.2	160.3
41.5°	155.7	154.4	154.7	156.1	156.7	158.3
42°	154.1	153.5	153.3	154.5	155.4	157.2
42.5°	152.8	152.0	151.8	153.3	154.0	155.8
43°	151.4	150.2	150.3	151.5	152.4	154.4
43.5°	150.0	148.6	148.8	150.3	151.1	153.0
44°	148.6	147.3	147.7	148.6	149.7	151.7
44.5°	147.1	146.3	145.8	147.1	148.1	150.3



TEST NUMBER: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	145.6	144.7	144.3	145.9	146.8	149.0
45.5°	143.8	143.0	142.8	144.5	145.1	147.2
46°	142.4	141.4	141.5	142.7	143.7	145.4
46.5°	140.9	139.5	140.1	141.1	142.1	143.7
47°	139.1	138.1	138.5	139.6	140.6	142.8
47.5°	137.7	136.6	137.0	138.0	138.9	141.0
48°	136.1	135.2	135.3	136.5	137.4	139.5
48.5°	134.5	133.6	133.5	135.0	135.7	137.8
49°	132.9	131.8	132.0	133.5	134.2	136.2
49.5°	131.4	130.0	130.6	131.8	132.9	134.7
50°	129.7	128.4	128.8	130.3	131.2	133.0
50.5°	128.1	126.7	127.3	128.6	129.5	131.3
51°	126.3	125.4	125.8	126.9	127.9	129.7
51.5°	124.6	123.7	124.0	125.1	126.2	128.0
52°	123.0	121.9	122.2	123.4	124.6	126.4
52.5°	121.4	120.0	120.5	121.9	122.9	124.7
53°	119.8	118.2	119.0	120.2	121.2	123.2
53.5°	118.1	116.6	117.4	118.3	119.3	121.6
54°	116.4	115.0	115.5	116.6	117.4	120.1
54.5°	114.8	113.2	113.8	114.8	116.1	118.1
55°	113.0	111.3	111.9	113.1	114.2	116.4
55.5°	111.2	109.9	110.3	111.4	112.3	114.8
56°	109.5	108.2	108.6	109.7	110.7	112.9
56.5°	107.8	106.6	107.1	108.0	109.0	111.1
57°	106.1	104.7	105.1	106.2	107.5	109.3
57.5°	104.4	102.9	103.4	104.4	105.9	107.7
58°	102.6	101.2	101.5	102.6	104.1	105.9
58.5°	100.9	99.5	99.8	100.9	102.2	104.3
59°	99.1	97.6	97.8	99.1	100.3	102.4
59.5°	97.3	95.8	96.1	97.2	98.6	100.6
60°	95.5	93.9	94.2	95.5	96.7	98.9
60.5°	93.6	92.0	92.5	93.7	94.9	96.9
61°	91.8	90.1	90.6	91.6	93.1	95.2
61.5°	89.9	88.4	88.7	89.8	91.2	93.4
62°	88.1	86.5	87.0	88.0	89.3	91.6
62.5°	86.3	84.6	85.1	86.1	87.3	89.6
63°	84.3	82.8	83.2	84.3	85.6	87.8
63.5°	82.5	81.1	81.3	82.4	83.7	85.9
64°	80.6	79.1	79.3	80.5	81.8	84.0
64.5°	78.6	77.0	77.5	78.6	80.0	82.2
65°	76.8	75.2	75.6	76.8	78.1	80.2
65.5°	74.7	73.3	73.6	74.9	76.3	78.4
66°	72.8	71.5	71.8	72.9	74.3	76.5
66.5°	70.8	69.5	69.9	70.8	72.5	74.7
67°	68.9	67.6	68.0	69.1	70.5	72.9



TEST NUMBER: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	66.9	65.6	66.0	67.0	68.5	70.7
68°	65.0	63.8	63.9	65.1	66.6	68.6
68.5°	63.1	61.7	62.1	63.1	64.6	66.7
69°	61.1	59.8	60.1	61.3	62.6	64.8
69.5°	59.2	58.0	58.1	59.4	60.7	62.8
70°	57.3	56.1	56.4	57.3	58.8	60.9
70.5°	55.4	54.0	54.2	55.4	56.8	59.1
71°	53.4	52.1	52.4	53.6	54.9	57.1
71.5°	51.6	50.2	50.3	51.5	52.8	55.1
72°	49.5	48.1	48.3	49.5	51.1	53.1
72.5°	47.6	46.3	46.5	47.5	49.1	51.2
73°	45.7	44.2	44.5	45.5	47.1	49.2
73.5°	43.7	42.3	42.5	43.6	45.3	47.2
74°	41.8	40.5	40.7	41.7	43.3	45.4
74.5°	39.9	38.6	38.6	39.7	41.2	43.3
75°	38.0	36.6	36.8	37.9	39.3	41.4
75.5°	36.1	34.8	34.9	35.9	37.4	39.4
76°	34.3	32.8	33.0	34.0	35.4	37.6
76.5°	32.3	31.0	31.0	32.1	33.5	35.6
77°	30.6	29.1	29.2	30.3	31.7	33.6
77.5°	28.7	27.2	27.4	28.4	29.8	31.9
78°	26.9	25.4	25.5	26.6	28.0	30.0
78.5°	25.0	23.6	23.7	24.8	26.2	28.2
79°	23.3	21.8	22.0	23.0	24.4	26.3
79.5°	21.6	20.1	20.3	21.2	22.6	24.4
80°	19.8	18.4	18.4	19.4	20.7	22.6
80.5°	18.2	16.6	16.8	17.8	19.0	20.9
81°	16.5	15.1	15.3	16.1	17.5	19.1
81.5°	14.9	13.6	13.7	14.6	15.8	17.5
82°	13.4	12.0	12.1	13.0	14.3	15.8
82.5°	11.9	10.5	10.7	11.5	12.8	14.3
83°	10.5	9.2	9.3	10.1	11.2	12.8
83.5°	9.0	7.8	8.0	8.7	9.8	11.3
84°	7.6	6.6	6.7	7.4	8.4	9.8
84.5°	6.4	5.4	5.5	6.1	7.1	8.5
85°	5.2	4.3	4.3	4.9	6.0	7.2
85.5°	4.1	3.3	3.3	3.8	4.7	6.0
86°	3.1	2.4	2.5	2.9	3.7	4.8
86.5°	2.1	1.6	1.7	2.1	2.7	3.8
87°	1.2	1.0	1.0	1.3	1.9	2.8
87.5°	0.5	0.4	0.4	0.7	1.2	1.9
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: P522071
CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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: P522071

CATALOG NUMBER: HLBLV4069FSE010MW-4000K-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)