

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: P522068

Luminaire Tested: **HLBLV4069FSE010MW-2700K-UNIT**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522068  
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-2700K-UNIT  
Description: Surface Mount Downlight Fixture, Single Unit  
Light Source: (48) 2700K CCT, 93 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

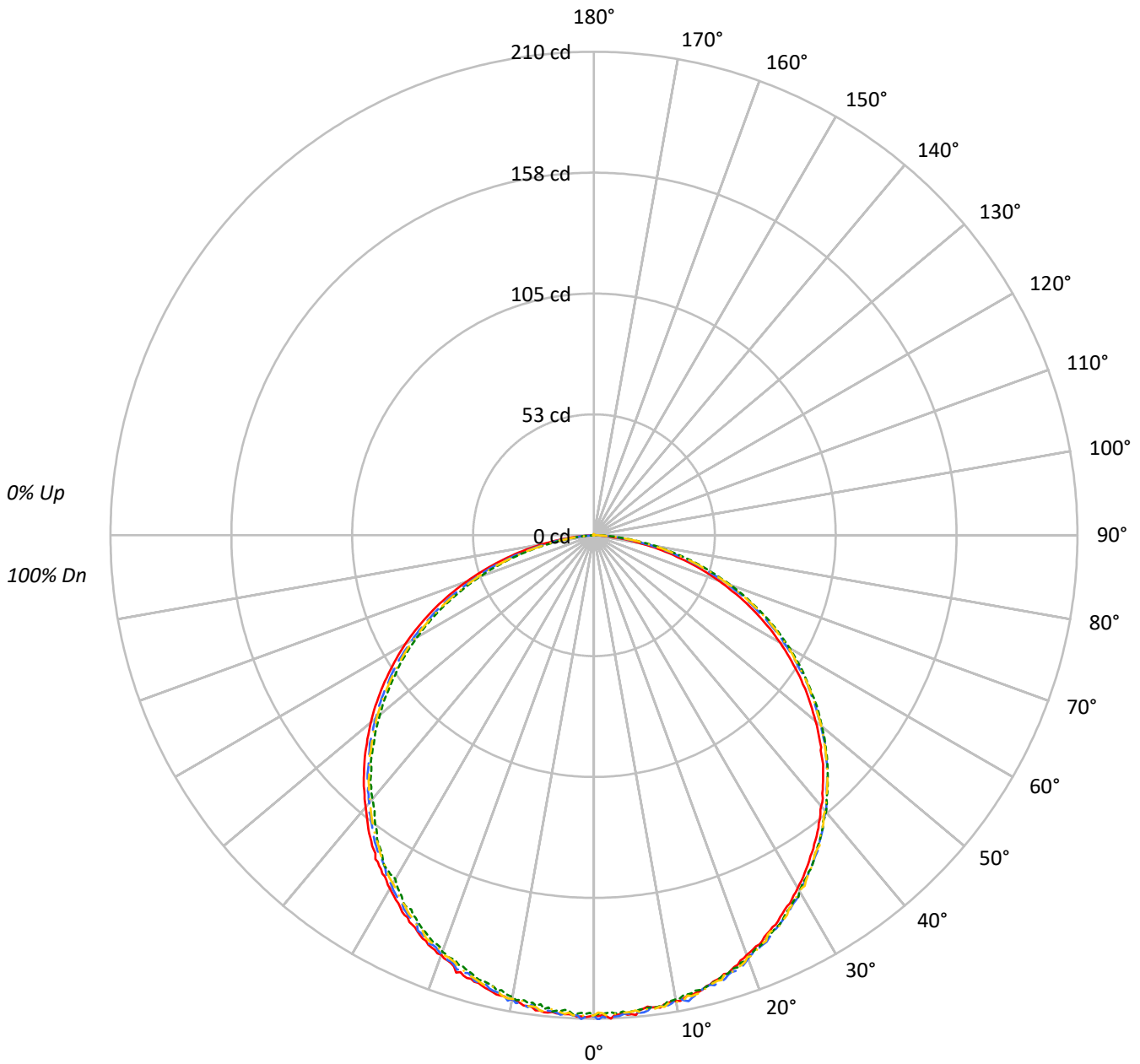
Lumens per Lamp: N/A  
Luminaire Lumens: 600.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Circular (Dia: 0.33m x H: 0m)  
CIE Type: Direct

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

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

	0°	90°	180°	270°
0°	2395	2395	2395	2395
5°	2411	2392	2396	2393
10°	2395	2387	2388	2374
15°	2386	2391	2387	2363
20°	2372	2385	2369	2352
25°	2365	2381	2365	2324
30°	2347	2367	2349	2287
35°	2330	2356	2338	2289
40°	2301	2352	2311	2244
45°	2286	2330	2291	2220
50°	2245	2310	2260	2167
55°	2202	2282	2222	2106
60°	2147	2257	2175	2037
65°	2059	2201	2097	1932
70°	1934	2118	1974	1779
75°	1735	2001	1801	1535
80°	1408	1799	1527	1144
85°	896	1502	1067	540



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	3.3
10°-20°	56.6	9.4
20°-30°	85.9	14.3
30°-40°	103.8	17.3
40°-50°	108.3	18.0
50°-60°	98.5	16.4
60°-70°	75.4	12.6
70°-80°	42.1	7.0
80°-90°	9.5	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
<b>0°-30°</b>	<b>162.2</b>	<b>27.0</b>
<b>0°-40°</b>	<b>266.0</b>	<b>44.3</b>
<b>0°-60°</b>	<b>472.7</b>	<b>78.8</b>
<b>0°-90°</b>	<b>599.8</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.1	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>600.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	209	209	209	209	209	
5°	209	208	208	208	209	20
15°	201	201	201	199	201	57
25°	187	188	187	183	187	86
35°	166	168	167	163	166	104
45°	141	144	141	137	141	108
55°	110	114	111	105	110	98
65°	76	81	77	71	76	75
75°	39	45	41	35	39	41
85°	7	11	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°	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
0.5°	208.9	209.2	210.5	208.6	207.9	207.8	207.4	208.8	209.0	208.0	210.0
1°	208.6	208.9	209.1	207.8	207.9	208.5	207.6	208.1	209.4	209.5	209.2
1.5°	209.0	209.7	209.7	208.5	207.7	208.6	208.7	208.5	209.0	208.7	210.2
2°	210.1	211.0	209.6	209.7	207.2	208.8	208.6	208.5	209.2	208.5	208.6
2.5°	208.6	210.2	209.3	209.4	207.9	208.5	208.1	209.0	208.6	208.5	208.8
3°	208.5	208.8	209.2	209.2	207.8	208.8	207.9	208.8	208.3	208.7	208.2
3.5°	208.1	208.1	208.4	208.4	207.3	207.8	207.9	208.6	208.4	209.3	208.3
4°	208.8	208.6	208.2	208.6	208.1	208.6	207.7	208.0	208.3	209.1	208.8
4.5°	208.7	207.9	208.8	208.5	207.5	208.1	207.6	207.7	208.3	208.0	208.0
5°	209.2	207.7	207.9	208.5	207.5	207.9	207.2	207.6	207.9	207.5	207.6
5.5°	207.2	207.0	208.4	207.8	207.0	207.9	208.1	207.9	208.3	208.3	207.5
6°	206.7	207.6	208.4	207.7	206.8	207.5	208.5	208.1	208.4	207.8	207.4
6.5°	206.1	207.7	207.7	207.9	206.5	207.9	206.7	206.6	207.7	205.7	207.7
7°	206.7	207.6	206.2	207.9	206.6	207.8	207.6	206.7	208.0	206.7	206.9
7.5°	206.8	207.0	205.8	206.7	206.9	206.0	207.2	206.7	206.6	206.0	205.7
8°	207.2	206.7	206.8	207.4	206.5	205.9	206.7	206.5	206.5	205.4	207.0
8.5°	206.1	205.8	206.5	207.1	206.4	205.1	207.2	205.8	206.6	206.1	206.2
9°	205.7	205.0	206.7	206.5	204.9	206.2	205.9	205.9	205.7	205.4	205.6
9.5°	205.3	205.4	206.0	205.9	205.0	206.5	206.5	205.0	205.0	205.3	206.0
10°	205.4	206.0	204.7	206.1	204.7	205.0	206.1	205.3	204.8	204.9	204.5
10.5°	205.7	205.1	204.8	206.2	204.7	205.7	204.7	204.5	204.7	204.0	205.6
11°	204.9	204.0	205.8	204.8	203.6	205.0	205.4	204.9	204.1	203.7	203.9
11.5°	204.1	204.2	206.5	204.3	203.6	204.9	204.1	204.0	204.0	204.4	203.3
12°	204.2	203.6	205.4	205.0	203.5	204.0	204.7	203.2	203.9	201.9	202.9
12.5°	203.7	203.7	204.6	204.0	202.7	204.0	204.3	202.8	203.2	202.3	202.6
13°	203.4	203.7	203.6	203.6	202.8	202.6	204.1	202.2	202.7	202.1	202.1
13.5°	202.8	203.8	202.6	203.2	202.8	202.1	202.9	202.3	202.3	201.3	200.7
14°	201.8	203.0	202.2	202.3	202.1	202.1	202.9	201.4	201.6	201.0	201.0
14.5°	201.6	201.4	201.7	201.7	201.5	202.1	201.6	201.2	200.8	200.5	200.6
15°	200.7	200.4	202.4	200.7	201.1	201.3	201.3	200.5	200.8	199.8	200.4
15.5°	200.3	199.7	201.6	200.8	200.5	200.7	200.8	199.6	199.9	199.4	199.0
16°	199.9	199.7	201.7	200.6	199.8	200.3	201.1	199.6	200.1	198.8	197.9
16.5°	198.7	199.1	200.8	200.1	199.0	199.6	199.2	199.2	199.5	198.1	198.3
17°	199.2	199.1	199.6	199.6	199.1	199.5	199.0	199.1	198.4	197.9	197.2
17.5°	198.1	199.4	198.9	198.5	198.1	198.7	199.0	197.4	199.2	197.4	197.8
18°	197.2	198.1	199.0	198.3	197.7	197.8	198.7	197.8	196.9	196.8	196.3
18.5°	196.8	196.6	198.5	197.4	197.8	197.5	197.9	196.8	195.9	195.9	195.2
19°	195.4	195.8	198.1	196.7	196.3	196.7	197.3	195.8	195.4	195.5	195.2
19.5°	194.9	195.8	196.9	196.1	196.3	195.9	196.5	195.4	195.0	194.9	194.3
20°	194.1	195.1	195.8	195.5	195.2	195.3	194.9	194.9	193.9	193.8	193.9
20.5°	193.4	193.0	194.7	194.9	194.6	194.6	195.2	193.9	193.9	193.4	192.8
21°	192.8	193.0	193.9	194.1	193.6	193.6	194.5	193.2	192.9	191.9	191.7
21.5°	192.0	193.4	193.8	193.4	192.7	193.4	193.4	192.5	192.5	191.4	191.2
22°	191.7	192.1	192.8	193.3	192.5	192.3	192.9	191.6	191.9	191.1	191.4



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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°	190.9	191.2	192.3	192.2	191.8	191.4	191.8	191.1	190.7	190.3	189.9
23°	189.5	191.2	191.9	192.1	191.0	191.3	191.5	191.0	190.3	189.2	189.2
23.5°	188.8	190.1	190.7	190.9	189.8	189.9	189.2	190.0	189.4	188.7	188.3
24°	188.0	189.0	189.9	190.2	189.2	189.2	188.5	188.9	188.4	187.6	188.0
24.5°	187.0	188.4	188.8	189.3	188.4	188.9	188.5	188.3	187.2	186.6	185.5
25°	186.7	187.3	188.1	188.3	187.9	187.9	188.1	186.7	186.7	185.8	185.4
25.5°	185.8	186.4	187.2	187.9	187.3	186.9	187.8	186.3	186.2	185.1	184.5
26°	184.5	185.5	186.5	187.3	186.4	186.3	186.5	185.3	184.6	184.4	183.8
26.5°	183.6	185.0	185.5	186.1	185.2	185.8	185.8	184.9	184.4	184.0	182.9
27°	182.6	183.8	184.8	184.9	183.8	184.7	185.0	183.6	183.6	182.4	182.1
27.5°	181.7	182.5	183.9	184.1	183.2	183.9	183.2	182.5	182.2	181.3	180.5
28°	181.2	182.1	182.8	183.2	182.3	182.6	182.6	181.7	181.0	180.3	179.5
28.5°	180.2	180.6	181.7	182.1	181.2	181.8	181.6	180.6	180.3	179.7	179.0
29°	178.9	179.6	181.1	181.1	180.5	181.0	180.5	180.2	179.2	178.5	178.0
29.5°	178.1	179.1	180.1	179.8	180.5	179.9	179.6	178.2	178.3	176.7	177.1
30°	177.0	178.1	179.1	179.3	178.5	178.9	178.8	177.7	177.2	176.0	175.6
30.5°	175.9	176.7	177.8	178.3	177.4	178.0	177.9	177.1	176.3	175.2	174.7
31°	175.1	175.8	176.8	176.7	176.1	177.2	177.7	175.9	174.9	174.3	173.6
31.5°	174.0	174.9	175.6	175.6	175.5	176.1	176.2	174.0	173.8	173.1	172.7
32°	172.8	173.4	174.7	174.9	174.8	174.7	174.9	173.6	173.4	172.0	170.9
32.5°	171.7	172.5	173.8	173.9	173.5	174.0	173.3	172.6	172.0	171.1	169.8
33°	170.6	171.4	172.6	173.0	172.9	173.2	172.9	171.8	171.3	169.7	168.8
33.5°	169.4	170.7	171.7	171.8	171.9	171.9	171.8	170.3	170.1	168.7	167.6
34°	168.2	169.5	170.6	171.0	170.6	170.3	170.4	169.3	169.8	167.7	166.9
34.5°	167.2	168.4	169.5	169.4	169.1	169.3	169.2	168.5	167.6	166.7	166.1
35°	166.2	167.1	168.7	168.5	168.1	168.3	168.1	167.5	166.8	165.6	164.8
35.5°	164.8	165.9	167.7	167.5	166.9	167.3	167.2	166.2	165.8	164.0	163.8
36°	163.7	164.6	166.4	166.4	166.0	166.3	166.7	165.1	164.4	163.1	162.5
36.5°	162.6	163.5	164.9	165.2	165.0	164.9	164.7	163.8	163.3	162.2	161.3
37°	161.3	162.3	163.8	163.9	163.6	163.8	163.4	162.7	162.2	161.2	159.8
37.5°	160.2	161.0	162.7	162.5	162.4	162.5	162.9	161.5	160.9	159.8	158.4
38°	158.7	159.8	161.4	161.5	161.4	161.4	161.3	160.3	159.5	158.5	157.3
38.5°	157.6	158.7	160.3	160.2	159.6	160.3	160.0	159.0	158.2	157.3	155.9
39°	156.2	157.5	158.9	159.1	158.8	159.0	158.6	157.8	156.9	155.3	154.9
39.5°	154.6	156.4	157.6	157.6	158.0	157.8	157.1	156.6	155.5	154.7	153.5
40°	153.5	155.1	156.6	156.4	156.9	156.4	156.3	155.3	154.2	153.4	151.8
40.5°	152.7	153.7	155.4	155.1	155.6	155.3	155.0	154.1	153.0	151.7	150.6
41°	151.5	152.3	153.8	154.0	154.2	154.0	153.6	152.7	151.8	150.2	149.2
41.5°	149.6	151.0	152.6	152.7	152.4	152.7	152.4	151.3	150.4	149.1	148.2
42°	148.6	149.7	151.2	151.5	151.3	151.7	151.1	150.0	149.1	147.8	146.4
42.5°	147.2	148.2	149.5	150.2	150.2	150.2	149.9	148.6	147.9	146.4	145.5
43°	145.9	147.1	148.4	148.8	148.9	148.8	148.6	147.4	146.6	145.2	144.2
43.5°	144.6	146.0	147.1	147.5	147.5	147.5	147.3	146.1	145.2	143.8	142.8
44°	143.3	144.6	145.8	146.2	146.2	146.2	145.9	144.8	143.8	142.3	141.3
44.5°	142.0	143.1	144.4	144.9	144.8	145.0	144.7	143.5	142.5	140.9	139.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	140.8	141.7	143.1	143.5	143.5	143.6	143.3	142.0	141.1	139.7	138.4
45.5°	139.1	140.3	142.0	142.2	142.1	142.2	141.9	140.6	139.6	138.2	137.1
46°	137.4	138.9	140.4	140.8	140.8	140.8	140.4	139.1	138.4	136.8	135.5
46.5°	135.8	137.6	138.9	139.4	139.4	139.4	139.0	137.7	136.8	135.4	134.2
47°	135.0	135.9	137.6	138.0	137.9	138.0	137.6	136.4	135.2	133.9	133.1
47.5°	133.3	134.6	136.2	136.6	136.6	136.9	136.1	134.8	133.7	132.3	131.4
48°	131.8	133.2	135.0	135.3	135.1	135.3	134.6	133.3	132.4	130.8	129.9
48.5°	130.2	131.9	133.2	133.7	133.8	133.7	133.2	131.9	130.8	129.1	128.3
49°	128.7	130.2	131.8	132.4	132.4	132.2	131.8	130.5	129.3	127.9	126.8
49.5°	127.3	128.6	130.1	131.0	130.8	130.7	130.4	129.1	127.9	126.4	125.3
50°	125.7	127.2	128.7	129.3	129.3	129.2	128.8	127.7	126.5	125.0	123.7
50.5°	124.1	125.6	127.0	127.5	127.8	127.7	127.3	126.0	125.0	123.4	122.1
51°	122.5	124.1	125.5	126.2	126.4	126.4	125.6	124.7	123.5	121.8	120.8
51.5°	121.0	122.5	124.1	124.8	124.9	125.0	124.0	123.3	122.0	120.2	119.4
52°	119.4	120.8	122.6	123.3	123.5	123.4	122.5	121.7	120.4	118.6	117.7
52.5°	117.9	119.5	121.0	121.7	122.0	121.9	121.1	119.9	118.8	117.1	116.3
53°	116.4	118.1	119.5	120.1	120.4	120.2	119.6	118.4	117.2	115.5	114.5
53.5°	114.9	116.3	117.7	118.4	118.8	118.7	118.1	116.9	115.6	114.1	113.0
54°	113.5	114.7	116.3	116.7	117.0	117.2	116.5	115.6	114.1	112.6	111.4
54.5°	111.5	113.2	114.8	115.3	115.6	115.8	115.0	113.9	112.6	111.0	109.6
55°	110.0	111.7	113.3	113.7	114.0	114.3	113.5	112.2	111.0	109.4	108.2
55.5°	108.5	110.1	111.7	112.0	112.4	112.7	111.9	110.6	109.2	107.7	106.6
56°	106.7	108.5	110.2	110.4	110.9	111.0	110.3	108.9	107.7	106.1	105.0
56.5°	105.0	106.8	108.4	109.0	109.5	109.5	108.6	107.5	106.1	104.6	103.2
57°	103.3	105.0	106.4	107.3	107.9	107.9	106.9	105.8	104.4	102.9	101.7
57.5°	101.7	103.3	104.9	105.5	106.3	106.3	105.3	104.3	102.8	101.4	100.0
58°	100.1	101.7	103.3	103.9	104.6	104.5	103.6	102.5	101.2	99.6	98.3
58.5°	98.5	100.2	101.7	102.3	103.0	102.8	102.0	100.8	99.6	97.8	96.6
59°	96.8	98.4	100.0	100.9	101.4	101.2	100.6	99.0	98.0	96.1	94.8
59.5°	95.0	96.7	98.3	99.0	99.9	99.7	99.0	97.5	96.3	94.4	93.1
60°	93.5	95.0	96.7	97.5	98.3	98.0	97.4	95.6	94.7	92.8	91.2
60.5°	91.6	93.5	95.0	95.8	96.5	96.4	95.7	94.2	93.0	91.1	89.8
61°	89.9	91.7	93.4	94.1	94.8	94.7	93.9	92.5	91.2	89.4	87.9
61.5°	88.3	90.0	91.5	92.4	93.1	93.0	92.2	91.0	89.5	87.6	86.2
62°	86.5	88.2	89.9	90.7	91.5	91.4	90.6	89.1	87.8	85.9	84.3
62.5°	84.7	86.5	88.2	89.0	89.8	89.7	88.9	87.4	86.0	84.2	82.5
63°	82.9	84.7	86.4	87.4	88.1	88.0	87.2	85.5	84.3	82.5	80.7
63.5°	81.2	82.9	84.6	85.4	86.3	86.3	85.5	83.9	82.5	80.6	79.0
64°	79.4	81.0	82.9	83.6	84.6	84.5	83.8	82.0	80.7	78.8	77.4
64.5°	77.6	79.4	81.0	82.0	82.8	82.7	82.0	80.3	78.9	77.1	75.6
65°	75.8	77.7	79.2	80.3	81.0	80.9	80.3	78.6	77.2	75.4	73.6
65.5°	74.1	76.0	77.6	78.7	79.2	79.2	78.5	76.8	75.4	73.6	71.8
66°	72.3	74.2	75.8	76.7	77.5	77.2	76.7	74.9	73.6	71.7	70.1
66.5°	70.5	72.2	74.0	74.9	75.7	75.6	74.9	73.2	71.7	69.9	68.3
67°	68.9	70.6	72.2	73.1	73.9	73.8	73.1	71.3	69.9	68.2	66.4





TEST NUMBER: P522068  
 CATALOG NUMBER: HLBLV4069FSE010MW-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	66.8	68.8	70.5	71.2	72.1	72.0	71.3	69.6	68.1	66.3	64.6
68°	64.9	66.9	68.9	69.6	70.4	70.3	69.4	67.7	66.2	64.5	62.8
68.5°	63.0	65.0	66.8	67.7	68.5	68.5	67.6	65.9	64.3	62.5	60.9
69°	61.2	63.1	64.9	65.7	66.7	66.7	65.8	64.1	62.5	60.7	59.1
69.5°	59.3	61.3	63.1	63.9	64.9	64.9	64.0	62.2	60.7	58.9	57.4
70°	57.6	59.4	61.3	62.2	63.1	63.0	62.2	60.5	58.8	57.2	55.5
70.5°	55.8	57.6	59.4	60.3	61.2	61.3	60.3	58.7	57.1	55.3	53.7
71°	54.0	55.7	57.6	58.4	59.3	59.3	58.5	56.9	55.3	53.5	51.8
71.5°	52.1	54.0	55.7	56.7	57.5	57.5	56.7	55.1	53.5	51.6	50.1
72°	50.2	52.1	53.8	54.9	55.8	55.8	54.9	53.3	51.5	49.8	48.3
72.5°	48.4	50.4	51.9	53.1	54.0	54.0	53.0	51.5	49.7	48.0	46.5
73°	46.5	48.4	50.0	51.2	52.3	52.1	51.1	49.6	47.8	46.2	44.6
73.5°	44.6	46.6	48.3	49.4	50.4	50.2	49.3	47.8	46.1	44.2	42.7
74°	42.9	44.6	46.6	47.5	48.6	48.5	47.5	45.9	44.2	42.5	40.9
74.5°	40.9	42.8	44.6	45.6	46.8	46.7	45.6	44.1	42.4	40.6	38.9
75°	39.1	41.0	42.7	43.8	45.1	44.9	43.8	42.4	40.6	38.8	37.1
75.5°	37.2	39.1	40.9	42.1	43.2	43.0	42.1	40.6	38.8	37.0	35.5
76°	35.5	37.3	39.0	40.2	41.4	41.1	40.3	38.7	37.0	35.3	33.7
76.5°	33.7	35.6	37.1	38.5	39.5	39.4	38.4	36.9	35.3	33.4	31.9
77°	31.7	33.7	35.5	36.6	37.7	37.5	36.6	35.2	33.5	31.7	30.0
77.5°	30.2	31.9	33.7	34.8	36.0	35.8	34.9	33.4	31.8	29.9	28.4
78°	28.3	30.2	31.9	33.0	34.2	34.0	33.1	31.6	30.0	28.2	26.6
78.5°	26.6	28.4	30.0	31.2	32.4	32.2	31.3	29.9	28.2	26.5	25.0
79°	24.9	26.7	28.2	29.4	30.6	30.4	29.6	28.1	26.4	24.7	23.2
79.5°	23.1	24.9	26.6	27.6	28.8	28.6	27.9	26.4	24.8	23.0	21.5
80°	21.3	23.2	25.0	25.9	27.2	27.0	26.2	24.7	23.1	21.4	19.9
80.5°	19.8	21.5	23.1	24.1	25.5	25.3	24.4	23.0	21.4	19.7	18.3
81°	18.1	19.8	21.3	22.4	23.8	23.7	22.8	21.4	19.8	18.1	16.7
81.5°	16.5	18.2	19.7	20.8	22.1	22.0	21.1	19.7	18.2	16.4	15.1
82°	15.0	16.6	18.1	19.1	20.5	20.2	19.5	18.2	16.6	15.0	13.7
82.5°	13.5	15.0	16.6	17.5	18.8	18.7	17.9	16.6	15.0	13.6	12.3
83°	12.1	13.7	15.0	15.9	17.2	17.2	16.3	15.1	13.7	12.1	10.9
83.5°	10.6	12.2	13.5	14.4	15.7	15.5	14.8	13.6	12.1	10.7	9.4
84°	9.3	10.7	12.1	13.0	14.2	14.1	13.4	12.3	10.8	9.3	8.1
84.5°	8.0	9.3	10.6	11.5	12.8	12.8	11.9	10.8	9.3	8.1	6.8
85°	6.8	8.1	9.3	10.1	11.4	11.3	10.5	9.4	8.1	6.8	5.7
85.5°	5.7	6.8	8.0	8.8	10.1	9.9	9.2	8.1	6.8	5.5	4.5
86°	4.5	5.7	6.7	7.5	8.7	8.6	7.9	6.8	5.6	4.4	3.5
86.5°	3.5	4.6	5.7	6.3	7.4	7.2	6.6	5.6	4.5	3.5	2.6
87°	2.6	3.5	4.5	5.2	6.2	6.1	5.4	4.5	3.5	2.5	1.7
87.5°	1.8	2.7	3.5	4.3	5.2	5.0	4.4	3.5	2.6	1.7	1.0
88°	1.2	1.9	2.6	3.2	4.0	3.9	3.4	2.6	1.7	1.0	0.5
88.5°	0.6	1.2	1.8	2.3	3.1	2.9	2.5	1.7	1.0	0.4	0.0
89°	0.2	0.6	1.2	1.7	2.1	2.0	1.5	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: P522068  
 CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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	0.6	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: P522068  
 CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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	0.6	0.1	0.1	0.0	0.3	0.3	0.1	0.1	0.5	0.4
171°	0.1	0.6	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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	208.6	208.6	208.6	208.6	208.6	208.6
0.5°	208.3	207.5	207.5	208.6	207.7	208.9
1°	208.3	208.0	207.6	208.5	208.3	208.6
1.5°	207.6	207.5	208.3	208.8	208.8	209.0
2°	208.2	207.9	207.6	208.3	209.1	210.1
2.5°	207.5	208.3	207.0	208.8	208.7	208.6
3°	207.9	206.9	207.4	207.6	208.5	208.5
3.5°	207.9	206.6	207.7	208.3	207.7	208.1
4°	207.5	207.1	206.6	207.7	207.0	208.8
4.5°	207.2	207.2	207.2	207.3	207.3	208.7
5°	207.6	207.6	207.9	206.6	207.4	209.2
5.5°	207.2	206.1	206.8	207.1	206.1	207.2
6°	205.7	207.0	207.0	208.0	206.2	206.7
6.5°	206.6	205.0	206.2	207.7	206.2	206.1
7°	206.8	205.9	205.7	206.5	207.1	206.7
7.5°	206.1	204.7	206.0	206.4	207.6	206.8
8°	206.1	205.2	205.7	206.5	206.1	207.2
8.5°	205.6	204.3	205.0	204.5	205.5	206.1
9°	204.8	204.3	205.1	204.8	203.7	205.7
9.5°	203.4	204.7	203.3	204.8	204.8	205.3
10°	204.5	203.6	203.0	204.5	204.2	205.4
10.5°	203.2	203.3	204.2	204.7	204.1	205.7
11°	203.3	202.7	203.0	204.3	204.1	204.9
11.5°	202.7	201.7	202.8	203.5	203.0	204.1
12°	201.9	202.2	202.7	201.9	201.9	204.2
12.5°	201.7	200.9	201.9	201.0	201.0	203.7
13°	201.6	200.3	201.3	201.0	201.0	203.4
13.5°	200.2	199.8	200.1	201.3	200.9	202.8
14°	200.3	199.4	199.7	200.8	200.5	201.8
14.5°	199.2	199.5	199.5	200.1	200.5	201.6
15°	199.0	198.8	198.5	199.5	200.1	200.7
15.5°	198.4	197.8	198.2	199.0	199.6	200.3
16°	198.3	197.0	197.3	198.4	197.9	199.9
16.5°	197.8	196.5	196.5	197.6	197.7	198.7
17°	196.5	195.6	196.2	197.1	197.4	199.2
17.5°	196.4	195.6	195.9	196.5	196.2	198.1
18°	195.5	194.3	195.2	195.1	195.8	197.2
18.5°	194.6	194.0	194.3	194.7	195.1	196.8
19°	195.0	193.8	193.8	193.9	194.6	195.4
19.5°	193.6	193.0	192.8	193.8	193.6	194.9
20°	192.8	192.5	192.5	193.0	193.5	194.1
20.5°	191.8	190.9	192.3	191.8	192.5	193.4
21°	190.8	190.3	190.9	191.6	192.0	192.8
21.5°	189.8	190.2	190.5	190.8	191.1	192.0
22°	189.9	189.2	188.9	190.2	189.9	191.7



TEST NUMBER: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	189.0	188.3	188.0	189.7	189.0	190.9
23°	188.1	187.3	187.7	188.5	188.7	189.5
23.5°	187.2	186.7	187.1	187.0	187.9	188.8
24°	185.4	185.6	186.4	186.9	187.4	188.0
24.5°	184.3	184.5	185.4	185.8	185.8	187.0
25°	183.9	183.4	184.1	184.9	184.9	186.7
25.5°	184.3	182.7	183.1	183.8	184.1	185.8
26°	182.9	180.9	182.3	183.0	183.3	184.5
26.5°	182.0	180.9	181.1	182.0	182.9	183.6
27°	180.7	180.6	180.2	180.7	182.1	182.6
27.5°	179.8	179.6	179.2	179.9	180.9	181.7
28°	178.6	177.8	178.5	178.9	179.6	181.2
28.5°	177.8	176.5	177.4	177.9	178.8	180.2
29°	176.7	175.6	176.0	176.5	177.6	178.9
29.5°	175.6	174.2	175.1	175.6	176.2	178.1
30°	174.5	172.5	174.3	174.7	175.3	177.0
30.5°	173.6	171.9	172.9	173.8	174.2	175.9
31°	172.3	171.8	172.0	173.0	173.4	175.1
31.5°	171.0	170.9	170.7	171.7	172.0	174.0
32°	170.0	170.4	169.2	170.6	171.1	172.8
32.5°	168.8	169.8	168.2	169.5	170.0	171.7
33°	167.8	168.2	167.1	168.3	168.9	170.6
33.5°	166.9	166.7	166.1	167.4	167.8	169.4
34°	165.8	165.3	165.0	166.2	166.5	168.2
34.5°	164.8	164.3	163.9	164.8	165.4	167.2
35°	163.5	163.3	162.7	163.6	164.2	166.2
35.5°	162.4	162.2	161.5	162.5	162.9	164.8
36°	161.1	160.4	160.4	161.3	161.6	163.7
36.5°	160.0	158.9	159.3	160.3	160.4	162.6
37°	158.7	157.8	158.1	158.9	159.3	161.3
37.5°	157.5	156.4	157.0	157.8	158.0	160.2
38°	156.3	154.7	155.8	156.6	156.7	158.7
38.5°	154.9	153.1	154.5	155.3	155.6	157.6
39°	153.5	152.0	153.1	154.1	154.3	156.2
39.5°	152.3	150.8	151.9	152.6	153.3	154.6
40°	150.8	149.7	150.4	151.5	152.0	153.5
40.5°	149.5	148.6	148.9	150.0	150.7	152.7
41°	148.2	147.5	147.7	148.7	149.5	151.5
41.5°	147.1	145.9	146.2	147.5	148.1	149.6
42°	145.6	145.1	144.9	146.0	146.8	148.6
42.5°	144.4	143.7	143.5	144.9	145.5	147.2
43°	143.0	141.9	142.0	143.1	144.0	145.9
43.5°	141.7	140.4	140.6	142.0	142.8	144.6
44°	140.4	139.2	139.5	140.4	141.5	143.3
44.5°	138.9	138.2	137.8	138.9	140.0	142.0





TEST NUMBER: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	137.5	136.7	136.4	137.9	138.7	140.8
45.5°	135.9	135.1	135.0	136.5	137.1	139.1
46°	134.6	133.6	133.7	134.8	135.8	137.4
46.5°	133.1	131.9	132.4	133.3	134.3	135.8
47°	131.5	130.5	130.8	131.9	132.8	135.0
47.5°	130.1	129.1	129.5	130.4	131.3	133.3
48°	128.6	127.8	127.9	129.0	129.9	131.8
48.5°	127.1	126.2	126.2	127.6	128.2	130.2
49°	125.5	124.6	124.7	126.1	126.8	128.7
49.5°	124.2	122.8	123.4	124.6	125.5	127.3
50°	122.6	121.3	121.7	123.2	123.9	125.7
50.5°	121.0	119.7	120.2	121.5	122.4	124.1
51°	119.3	118.4	118.9	119.9	120.8	122.5
51.5°	117.7	116.9	117.2	118.3	119.3	121.0
52°	116.2	115.2	115.5	116.6	117.7	119.4
52.5°	114.7	113.4	113.9	115.2	116.1	117.9
53°	113.2	111.7	112.4	113.5	114.5	116.4
53.5°	111.5	110.2	110.9	111.8	112.8	114.9
54°	110.0	108.7	109.1	110.1	110.9	113.5
54.5°	108.5	107.0	107.5	108.5	109.7	111.5
55°	106.8	105.2	105.7	106.9	107.9	110.0
55.5°	105.0	103.8	104.2	105.3	106.1	108.5
56°	103.5	102.2	102.6	103.6	104.6	106.7
56.5°	101.9	100.7	101.2	102.0	103.0	105.0
57°	100.3	99.0	99.3	100.3	101.6	103.3
57.5°	98.7	97.2	97.7	98.7	100.1	101.7
58°	97.0	95.6	95.9	97.0	98.3	100.1
58.5°	95.3	94.0	94.3	95.4	96.6	98.5
59°	93.6	92.3	92.4	93.6	94.8	96.8
59.5°	91.9	90.5	90.8	91.9	93.2	95.0
60°	90.2	88.7	89.0	90.2	91.4	93.5
60.5°	88.5	86.9	87.4	88.5	89.6	91.6
61°	86.7	85.2	85.6	86.6	88.0	89.9
61.5°	84.9	83.6	83.8	84.9	86.1	88.3
62°	83.2	81.8	82.2	83.1	84.3	86.5
62.5°	81.6	80.0	80.4	81.4	82.5	84.7
63°	79.7	78.3	78.6	79.7	80.9	82.9
63.5°	78.0	76.6	76.8	77.9	79.1	81.2
64°	76.1	74.7	74.9	76.1	77.3	79.4
64.5°	74.3	72.8	73.2	74.3	75.6	77.6
65°	72.5	71.1	71.4	72.5	73.8	75.8
65.5°	70.5	69.2	69.6	70.8	72.1	74.1
66°	68.8	67.6	67.8	68.9	70.2	72.3
66.5°	66.9	65.7	66.0	66.9	68.5	70.5
67°	65.1	63.8	64.2	65.3	66.6	68.9



TEST NUMBER: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-UNIT

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	63.3	62.0	62.3	63.3	64.7	66.8
68°	61.4	60.3	60.4	61.5	62.9	64.9
68.5°	59.6	58.3	58.7	59.6	61.0	63.0
69°	57.8	56.5	56.8	58.0	59.1	61.2
69.5°	56.0	54.8	54.9	56.2	57.4	59.3
70°	54.2	53.0	53.3	54.2	55.6	57.6
70.5°	52.4	51.1	51.3	52.4	53.6	55.8
71°	50.5	49.3	49.5	50.6	51.8	54.0
71.5°	48.7	47.4	47.5	48.6	49.9	52.1
72°	46.8	45.5	45.6	46.8	48.3	50.2
72.5°	45.0	43.8	43.9	44.9	46.4	48.4
73°	43.1	41.8	42.0	43.0	44.5	46.5
73.5°	41.3	40.0	40.2	41.2	42.8	44.6
74°	39.5	38.3	38.4	39.4	40.9	42.9
74.5°	37.7	36.4	36.4	37.5	38.9	40.9
75°	35.9	34.6	34.8	35.8	37.1	39.1
75.5°	34.1	32.9	33.0	33.9	35.3	37.2
76°	32.4	31.0	31.1	32.1	33.5	35.5
76.5°	30.6	29.3	29.3	30.4	31.7	33.7
77°	28.9	27.5	27.6	28.6	29.9	31.7
77.5°	27.1	25.7	25.9	26.8	28.2	30.2
78°	25.4	24.0	24.1	25.1	26.4	28.3
78.5°	23.7	22.3	22.4	23.4	24.8	26.6
79°	22.1	20.6	20.8	21.7	23.0	24.9
79.5°	20.4	19.0	19.1	20.1	21.3	23.1
80°	18.7	17.3	17.4	18.4	19.6	21.3
80.5°	17.2	15.7	15.9	16.8	18.0	19.8
81°	15.6	14.2	14.4	15.2	16.5	18.1
81.5°	14.1	12.8	13.0	13.8	14.9	16.5
82°	12.7	11.3	11.5	12.3	13.5	15.0
82.5°	11.3	9.9	10.1	10.9	12.1	13.5
83°	9.9	8.7	8.8	9.5	10.6	12.1
83.5°	8.5	7.4	7.5	8.2	9.2	10.6
84°	7.2	6.2	6.3	7.0	7.9	9.3
84.5°	6.1	5.1	5.2	5.8	6.7	8.0
85°	4.9	4.1	4.1	4.6	5.7	6.8
85.5°	3.9	3.2	3.2	3.6	4.4	5.7
86°	2.9	2.3	2.4	2.8	3.5	4.5
86.5°	2.0	1.5	1.6	2.0	2.6	3.5
87°	1.2	0.9	1.0	1.2	1.8	2.6
87.5°	0.5	0.4	0.4	0.6	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: P522068  
 CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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: P522068

CATALOG NUMBER: HLBLV4069FSE010MW-2700K-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)