

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: P522070

Luminaire Tested: **HLBLV4069FSE010MW-3500K-UNIT**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522070
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-3500K-UNIT
Description: Surface Mount Downlight Fixture, Single Unit
Light Source: (48) 3500K CCT, 94 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

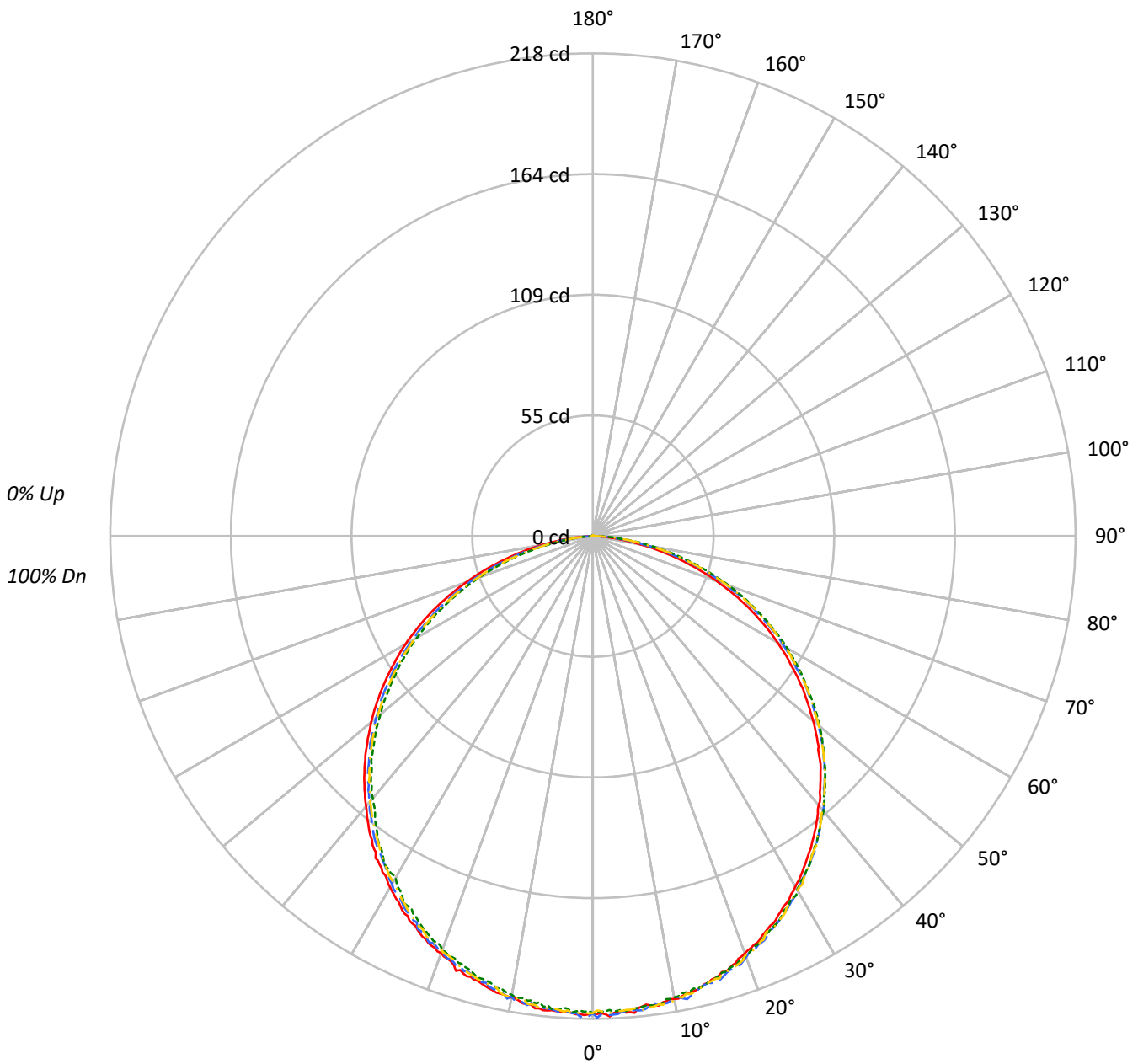
Lumens per Lamp: N/A
Luminaire Lumens: 620.0 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

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: P522070
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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	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°	2474	2474	2474	2474
5°	2492	2471	2477	2472
10°	2475	2466	2467	2453
15°	2464	2470	2467	2442
20°	2450	2465	2449	2430
25°	2445	2459	2445	2401
30°	2425	2446	2428	2363
35°	2408	2435	2417	2366
40°	2377	2430	2389	2319
45°	2361	2408	2368	2293
50°	2320	2388	2335	2238
55°	2276	2358	2296	2176
60°	2218	2331	2246	2106
65°	2130	2274	2168	1994
70°	1998	2189	2041	1840
75°	1792	2067	1863	1588
80°	1461	1858	1580	1184
85°	922	1555	1093	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	3.3
10°-20°	58.4	9.4
20°-30°	88.7	14.3
30°-40°	107.3	17.3
40°-50°	111.9	18.0
50°-60°	101.8	16.4
60°-70°	77.9	12.6
70°-80°	43.5	7.0
80°-90°	9.8	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°	167.6	27.0
0°-40°	274.9	44.3
0°-60°	488.5	78.8
0°-90°	619.8	100.0
90°-120°	0.0	0.0
90°-150°	0.1	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	216	216	216	216	216	
5°	216	214	215	214	216	20
15°	207	208	208	205	207	59
25°	193	194	193	190	193	89
35°	172	174	172	169	172	107
45°	145	148	146	141	145	112
55°	114	118	115	109	114	102
65°	78	84	80	73	78	77
75°	40	47	42	36	40	43
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°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5
0.5°	215.9	216.1	217.5	215.5	214.9	214.7	214.3	215.8	216.0	214.9	217.0
1°	215.5	215.9	216.1	214.7	214.9	215.5	214.5	215.0	216.4	216.5	216.2
1.5°	216.0	216.7	216.7	215.4	214.7	215.6	215.7	215.5	216.0	215.7	217.2
2°	217.1	218.1	216.5	216.7	214.1	215.7	215.6	215.5	216.1	215.5	215.6
2.5°	215.6	217.2	216.3	216.3	214.9	215.4	215.1	216.0	215.6	215.5	215.7
3°	215.5	215.8	216.1	216.1	214.7	215.7	214.8	215.8	215.3	215.7	215.1
3.5°	215.1	215.0	215.3	215.3	214.2	214.7	214.9	215.6	215.3	216.3	215.3
4°	215.8	215.6	215.1	215.6	215.0	215.5	214.6	214.9	215.3	216.1	215.8
4.5°	215.7	214.9	215.8	215.4	214.4	215.1	214.5	214.7	215.2	214.9	214.9
5°	216.2	214.7	214.8	215.4	214.4	214.8	214.1	214.5	214.9	214.4	214.5
5.5°	214.1	213.9	215.3	214.7	213.9	214.8	215.1	214.8	215.3	215.2	214.4
6°	213.6	214.5	215.3	214.7	213.7	214.4	215.5	215.0	215.3	214.7	214.3
6.5°	213.0	214.6	214.7	214.9	213.4	214.8	213.6	213.5	214.7	212.5	214.6
7°	213.6	214.5	213.1	214.8	213.5	214.7	214.5	213.6	214.9	213.6	213.8
7.5°	213.7	213.9	212.7	213.6	213.8	212.9	214.1	213.6	213.5	212.9	212.5
8°	214.1	213.6	213.7	214.3	213.3	212.7	213.6	213.3	213.3	212.3	213.9
8.5°	212.9	212.7	213.4	214.0	213.3	211.9	214.1	212.7	213.5	213.0	213.1
9°	212.6	211.9	213.6	213.3	211.7	213.1	212.8	212.8	212.5	212.2	212.4
9.5°	212.1	212.3	212.9	212.8	211.9	213.3	213.4	211.8	211.8	212.1	212.9
10°	212.3	212.9	211.5	212.9	211.5	211.9	212.9	212.1	211.6	211.7	211.3
10.5°	212.5	211.9	211.7	213.1	211.5	212.5	211.5	211.3	211.5	210.8	212.5
11°	211.7	210.8	212.7	211.7	210.3	211.8	212.3	211.7	210.9	210.5	210.7
11.5°	210.9	211.0	213.4	211.1	210.3	211.7	210.9	210.8	210.8	211.2	210.1
12°	211.0	210.4	212.3	211.9	210.3	210.8	211.5	210.0	210.7	208.6	209.7
12.5°	210.5	210.5	211.4	210.8	209.4	210.8	211.1	209.6	210.0	209.1	209.3
13°	210.1	210.5	210.4	210.3	209.6	209.3	210.9	208.9	209.5	208.9	208.8
13.5°	209.5	210.6	209.3	209.9	209.6	208.8	209.7	209.1	209.0	208.0	207.4
14°	208.5	209.8	208.9	209.0	208.8	208.9	209.7	208.1	208.3	207.7	207.7
14.5°	208.3	208.1	208.4	208.4	208.2	208.8	208.3	207.9	207.5	207.2	207.3
15°	207.3	207.1	209.1	207.4	207.8	208.0	208.0	207.2	207.5	206.4	207.1
15.5°	207.0	206.3	208.3	207.5	207.2	207.3	207.5	206.3	206.5	206.0	205.6
16°	206.5	206.3	208.5	207.3	206.5	206.9	207.8	206.3	206.8	205.4	204.5
16.5°	205.3	205.7	207.5	206.8	205.6	206.3	205.8	205.9	206.1	204.7	204.9
17°	205.9	205.7	206.3	206.2	205.7	206.1	205.7	205.7	205.0	204.5	203.7
17.5°	204.7	206.0	205.5	205.1	204.7	205.3	205.7	203.9	205.9	203.9	204.3
18°	203.8	204.7	205.6	204.9	204.3	204.4	205.3	204.3	203.5	203.3	202.8
18.5°	203.4	203.1	205.1	204.0	204.4	204.1	204.5	203.3	202.5	202.5	201.7
19°	201.9	202.3	204.7	203.3	202.9	203.3	203.9	202.3	201.9	202.0	201.7
19.5°	201.4	202.3	203.5	202.7	202.8	202.4	203.1	201.9	201.5	201.3	200.8
20°	200.5	201.6	202.3	202.0	201.7	201.8	201.4	201.4	200.4	200.3	200.4
20.5°	199.8	199.4	201.1	201.3	201.1	201.1	201.7	200.3	200.3	199.9	199.2
21°	199.2	199.4	200.3	200.5	200.1	200.1	200.9	199.6	199.3	198.3	198.1
21.5°	198.4	199.9	200.3	199.9	199.1	199.8	199.9	198.9	198.9	197.7	197.6
22°	198.1	198.5	199.2	199.7	198.9	198.7	199.3	198.0	198.3	197.5	197.8



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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°	197.2	197.6	198.7	198.6	198.2	197.7	198.2	197.5	197.1	196.6	196.3
23°	195.8	197.5	198.3	198.5	197.3	197.7	197.9	197.3	196.7	195.5	195.5
23.5°	195.1	196.4	197.1	197.2	196.1	196.3	195.5	196.3	195.7	194.9	194.6
24°	194.2	195.3	196.2	196.5	195.5	195.5	194.8	195.2	194.7	193.8	194.3
24.5°	193.3	194.7	195.1	195.6	194.7	195.1	194.7	194.5	193.4	192.8	191.7
25°	193.0	193.5	194.3	194.6	194.1	194.1	194.4	193.0	193.0	192.0	191.6
25.5°	192.0	192.6	193.5	194.1	193.5	193.1	194.1	192.6	192.4	191.3	190.7
26°	190.7	191.7	192.7	193.5	192.6	192.6	192.7	191.5	190.8	190.6	189.9
26.5°	189.8	191.2	191.7	192.3	191.4	192.0	192.0	191.0	190.6	190.1	189.0
27°	188.7	190.0	191.0	191.0	189.9	190.9	191.2	189.7	189.7	188.5	188.2
27.5°	187.8	188.6	190.0	190.3	189.4	190.0	189.4	188.6	188.3	187.4	186.6
28°	187.2	188.2	188.9	189.3	188.4	188.7	188.7	187.8	187.0	186.4	185.5
28.5°	186.2	186.6	187.8	188.2	187.2	187.9	187.7	186.6	186.3	185.7	185.0
29°	184.8	185.6	187.1	187.2	186.6	187.0	186.6	186.2	185.2	184.4	183.9
29.5°	184.0	185.1	186.1	185.8	186.5	185.9	185.6	184.2	184.2	182.6	183.0
30°	182.9	184.0	185.0	185.3	184.5	184.8	184.8	183.6	183.1	181.9	181.4
30.5°	181.8	182.6	183.8	184.2	183.4	183.9	183.8	183.0	182.2	181.1	180.6
31°	181.0	181.7	182.7	182.6	182.0	183.1	183.6	181.8	180.7	180.1	179.4
31.5°	179.8	180.7	181.5	181.5	181.4	182.0	182.0	179.8	179.6	178.9	178.4
32°	178.6	179.2	180.5	180.7	180.6	180.6	180.7	179.4	179.2	177.8	176.6
32.5°	177.4	178.3	179.6	179.7	179.3	179.8	179.0	178.4	177.7	176.8	175.5
33°	176.3	177.1	178.4	178.8	178.7	179.0	178.7	177.5	177.0	175.4	174.4
33.5°	175.1	176.4	177.4	177.6	177.6	177.6	177.6	176.0	175.8	174.4	173.2
34°	173.8	175.2	176.3	176.7	176.3	176.0	176.1	174.9	175.5	173.3	172.4
34.5°	172.8	174.0	175.2	175.1	174.7	175.0	174.8	174.2	173.2	172.2	171.6
35°	171.8	172.7	174.3	174.2	173.7	174.0	173.7	173.1	172.4	171.1	170.3
35.5°	170.3	171.4	173.3	173.1	172.5	172.9	172.8	171.8	171.4	169.5	169.3
36°	169.2	170.1	171.9	172.0	171.6	171.8	172.2	170.6	169.8	168.5	168.0
36.5°	168.0	169.0	170.4	170.7	170.5	170.4	170.2	169.3	168.7	167.6	166.6
37°	166.6	167.7	169.3	169.4	169.0	169.3	168.9	168.2	167.6	166.6	165.2
37.5°	165.5	166.4	168.1	167.9	167.8	168.0	168.3	166.9	166.2	165.1	163.7
38°	164.0	165.2	166.8	166.8	166.8	166.8	166.6	165.6	164.8	163.8	162.5
38.5°	162.9	164.0	165.6	165.6	165.0	165.6	165.4	164.3	163.5	162.6	161.1
39°	161.4	162.7	164.2	164.4	164.1	164.3	163.9	163.1	162.2	160.5	160.0
39.5°	159.8	161.6	162.8	162.9	163.2	163.0	162.4	161.8	160.6	159.8	158.6
40°	158.6	160.2	161.8	161.6	162.1	161.6	161.5	160.5	159.4	158.5	156.8
40.5°	157.8	158.8	160.6	160.2	160.8	160.4	160.2	159.2	158.1	156.8	155.6
41°	156.5	157.4	158.9	159.1	159.3	159.2	158.7	157.8	156.8	155.2	154.2
41.5°	154.6	156.0	157.6	157.8	157.4	157.8	157.5	156.4	155.4	154.0	153.1
42°	153.5	154.6	156.2	156.5	156.4	156.7	156.2	155.0	154.1	152.8	151.2
42.5°	152.1	153.1	154.4	155.2	155.2	155.2	154.9	153.5	152.8	151.3	150.4
43°	150.8	152.0	153.4	153.8	153.8	153.8	153.5	152.3	151.4	150.0	149.0
43.5°	149.4	150.8	152.0	152.4	152.4	152.4	152.2	151.0	150.0	148.6	147.5
44°	148.1	149.4	150.7	151.1	151.0	151.1	150.8	149.6	148.6	147.0	146.0
44.5°	146.8	147.8	149.2	149.8	149.6	149.8	149.5	148.2	147.2	145.6	144.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	145.4	146.4	147.9	148.2	148.3	148.4	148.0	146.8	145.8	144.3	143.0
45.5°	143.7	145.0	146.7	146.9	146.8	146.9	146.6	145.2	144.2	142.8	141.6
46°	142.0	143.6	145.0	145.5	145.4	145.5	145.1	143.7	143.0	141.4	140.0
46.5°	140.3	142.2	143.6	144.0	144.0	144.0	143.6	142.3	141.4	139.9	138.7
47°	139.4	140.4	142.2	142.6	142.5	142.6	142.2	140.9	139.7	138.4	137.5
47.5°	137.7	139.0	140.7	141.2	141.1	141.4	140.6	139.2	138.2	136.7	135.8
48°	136.2	137.7	139.4	139.8	139.6	139.8	139.1	137.8	136.8	135.1	134.2
48.5°	134.5	136.3	137.7	138.2	138.2	138.2	137.7	136.3	135.2	133.5	132.6
49°	133.0	134.5	136.2	136.9	136.8	136.6	136.2	134.9	133.7	132.1	131.1
49.5°	131.5	132.9	134.4	135.4	135.2	135.1	134.7	133.4	132.1	130.7	129.5
50°	129.9	131.5	133.0	133.7	133.7	133.5	133.1	131.9	130.7	129.1	127.9
50.5°	128.2	129.8	131.2	131.8	132.1	131.9	131.5	130.2	129.1	127.5	126.1
51°	126.6	128.2	129.7	130.5	130.6	130.7	129.8	128.9	127.6	125.9	124.8
51.5°	125.0	126.6	128.2	128.9	129.1	129.2	128.1	127.4	126.1	124.3	123.4
52°	123.4	124.9	126.7	127.4	127.6	127.5	126.6	125.7	124.5	122.6	121.6
52.5°	121.8	123.5	125.0	125.8	126.1	125.9	125.1	123.9	122.8	121.0	120.2
53°	120.3	122.0	123.5	124.1	124.5	124.3	123.6	122.4	121.1	119.4	118.3
53.5°	118.7	120.2	121.7	122.3	122.7	122.7	122.0	120.8	119.5	117.9	116.8
54°	117.3	118.5	120.1	120.6	120.9	121.1	120.4	119.5	117.9	116.3	115.1
54.5°	115.3	116.9	118.7	119.1	119.5	119.7	118.9	117.7	116.3	114.7	113.3
55°	113.7	115.4	117.1	117.5	117.8	118.1	117.3	115.9	114.7	113.0	111.8
55.5°	112.1	113.7	115.5	115.7	116.2	116.5	115.6	114.3	112.9	111.3	110.2
56°	110.3	112.1	113.9	114.1	114.6	114.7	113.9	112.5	111.3	109.7	108.5
56.5°	108.5	110.3	112.0	112.6	113.1	113.1	112.3	111.1	109.6	108.1	106.7
57°	106.7	108.5	109.9	110.9	111.5	111.5	110.5	109.3	107.9	106.3	105.1
57.5°	105.1	106.7	108.4	109.1	109.8	109.8	108.8	107.8	106.2	104.7	103.3
58°	103.4	105.1	106.7	107.4	108.1	108.0	107.1	105.9	104.6	102.9	101.5
58.5°	101.8	103.5	105.1	105.7	106.4	106.3	105.4	104.2	102.9	101.1	99.8
59°	100.0	101.7	103.3	104.3	104.7	104.6	104.0	102.3	101.3	99.3	97.9
59.5°	98.2	99.9	101.6	102.3	103.2	103.0	102.3	100.7	99.5	97.5	96.2
60°	96.6	98.1	99.9	100.7	101.5	101.3	100.6	98.8	97.8	95.9	94.3
60.5°	94.6	96.6	98.2	99.0	99.7	99.6	98.9	97.3	96.1	94.1	92.7
61°	92.9	94.7	96.5	97.3	97.9	97.8	97.1	95.5	94.3	92.3	90.8
61.5°	91.2	93.0	94.5	95.5	96.2	96.1	95.3	94.0	92.5	90.5	89.1
62°	89.4	91.1	92.9	93.7	94.5	94.4	93.6	92.1	90.7	88.7	87.1
62.5°	87.5	89.3	91.1	92.0	92.8	92.7	91.9	90.3	88.9	87.0	85.3
63°	85.7	87.5	89.3	90.3	91.0	90.9	90.1	88.3	87.1	85.2	83.4
63.5°	83.9	85.7	87.4	88.3	89.1	89.1	88.3	86.7	85.3	83.3	81.7
64°	82.0	83.7	85.6	86.3	87.4	87.3	86.5	84.7	83.3	81.4	80.0
64.5°	80.2	82.1	83.7	84.7	85.5	85.5	84.7	83.0	81.6	79.7	78.1
65°	78.4	80.3	81.8	83.0	83.7	83.5	82.9	81.2	79.8	78.0	76.1
65.5°	76.6	78.6	80.2	81.3	81.9	81.8	81.1	79.4	77.9	76.1	74.2
66°	74.7	76.7	78.4	79.3	80.1	79.8	79.2	77.4	76.0	74.1	72.4
66.5°	72.9	74.6	76.5	77.4	78.2	78.2	77.4	75.6	74.1	72.2	70.6
67°	71.2	73.0	74.6	75.5	76.4	76.3	75.5	73.7	72.2	70.4	68.6



TEST NUMBER: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	69.0	71.1	72.9	73.6	74.5	74.4	73.7	71.9	70.4	68.6	66.8
68°	67.0	69.1	71.2	72.0	72.8	72.6	71.7	70.0	68.4	66.6	64.9
68.5°	65.1	67.2	69.0	70.0	70.8	70.8	69.9	68.1	66.5	64.6	63.0
69°	63.2	65.2	67.1	67.9	68.9	68.9	68.0	66.2	64.6	62.8	61.1
69.5°	61.3	63.3	65.2	66.0	67.1	67.0	66.1	64.3	62.7	60.8	59.4
70°	59.5	61.4	63.3	64.2	65.2	65.1	64.2	62.5	60.8	59.1	57.4
70.5°	57.7	59.5	61.4	62.3	63.2	63.3	62.3	60.6	59.0	57.2	55.5
71°	55.8	57.6	59.5	60.4	61.3	61.3	60.4	58.8	57.1	55.2	53.6
71.5°	53.8	55.8	57.6	58.6	59.4	59.4	58.6	56.9	55.2	53.3	51.8
72°	51.8	53.8	55.6	56.8	57.7	57.6	56.7	55.0	53.2	51.4	49.9
72.5°	50.0	52.0	53.6	54.8	55.8	55.8	54.8	53.2	51.4	49.6	48.0
73°	48.0	50.0	51.7	52.9	54.0	53.8	52.8	51.2	49.4	47.8	46.0
73.5°	46.1	48.1	49.9	51.0	52.0	51.9	50.9	49.4	47.6	45.6	44.2
74°	44.3	46.1	48.1	49.0	50.2	50.1	49.0	47.4	45.7	43.9	42.2
74.5°	42.3	44.2	46.0	47.2	48.4	48.2	47.2	45.6	43.8	42.0	40.2
75°	40.4	42.4	44.2	45.3	46.6	46.4	45.3	43.8	42.0	40.0	38.4
75.5°	38.4	40.4	42.2	43.5	44.6	44.4	43.5	41.9	40.1	38.2	36.6
76°	36.7	38.5	40.3	41.5	42.8	42.5	41.6	40.0	38.2	36.4	34.8
76.5°	34.8	36.8	38.4	39.8	40.8	40.7	39.7	38.1	36.4	34.5	32.9
77°	32.8	34.8	36.6	37.8	39.0	38.8	37.8	36.4	34.6	32.8	31.0
77.5°	31.2	33.0	34.8	35.9	37.2	37.0	36.1	34.5	32.8	30.9	29.3
78°	29.2	31.2	32.9	34.1	35.3	35.1	34.2	32.6	31.0	29.1	27.5
78.5°	27.5	29.3	31.0	32.2	33.5	33.2	32.4	30.8	29.1	27.4	25.8
79°	25.7	27.6	29.2	30.4	31.6	31.4	30.6	29.0	27.3	25.5	24.0
79.5°	23.9	25.7	27.5	28.5	29.8	29.6	28.8	27.3	25.6	23.8	22.3
80°	22.1	24.0	25.8	26.7	28.1	27.9	27.1	25.5	23.9	22.1	20.5
80.5°	20.5	22.2	23.9	24.9	26.3	26.1	25.3	23.8	22.1	20.4	18.9
81°	18.7	20.5	22.1	23.2	24.6	24.5	23.5	22.1	20.5	18.7	17.3
81.5°	17.1	18.9	20.4	21.5	22.9	22.7	21.8	20.4	18.8	17.0	15.6
82°	15.5	17.2	18.7	19.7	21.2	20.9	20.1	18.8	17.1	15.5	14.1
82.5°	14.0	15.5	17.1	18.1	19.5	19.3	18.5	17.1	15.5	14.1	12.7
83°	12.5	14.1	15.5	16.5	17.8	17.7	16.9	15.6	14.1	12.5	11.3
83.5°	11.0	12.6	14.0	14.9	16.3	16.1	15.3	14.1	12.5	11.1	9.7
84°	9.6	11.1	12.5	13.5	14.7	14.5	13.9	12.7	11.1	9.7	8.4
84.5°	8.3	9.7	11.0	11.9	13.3	13.2	12.3	11.1	9.7	8.3	7.1
85°	7.0	8.4	9.6	10.5	11.8	11.7	10.9	9.7	8.3	7.0	5.9
85.5°	5.9	7.1	8.3	9.1	10.4	10.3	9.5	8.3	7.0	5.7	4.7
86°	4.7	5.9	6.9	7.8	9.0	8.9	8.1	7.1	5.8	4.6	3.6
86.5°	3.7	4.7	5.9	6.5	7.7	7.5	6.9	5.8	4.7	3.6	2.7
87°	2.7	3.7	4.7	5.4	6.4	6.3	5.6	4.7	3.6	2.6	1.8
87.5°	1.9	2.8	3.7	4.4	5.3	5.2	4.5	3.6	2.7	1.7	1.1
88°	1.2	2.0	2.7	3.3	4.1	4.1	3.5	2.7	1.8	1.1	0.5
88.5°	0.6	1.3	1.9	2.4	3.2	3.0	2.6	1.8	1.0	0.4	0.0
89°	0.2	0.7	1.2	1.7	2.2	2.1	1.6	1.1	0.4	0.0	0.0
89.5°	0.0	0.3	0.6	1.1	1.3	1.3	0.9	0.5	0.0	0.0	0.0



TEST NUMBER: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	215.5	215.5	215.5	215.5	215.5	215.5
0.5°	215.3	214.4	214.4	215.6	214.7	215.9
1°	215.2	214.9	214.5	215.4	215.2	215.5
1.5°	214.5	214.4	215.2	215.7	215.7	216.0
2°	215.1	214.8	214.5	215.2	216.1	217.1
2.5°	214.4	215.3	213.9	215.7	215.7	215.6
3°	214.9	213.8	214.3	214.5	215.4	215.5
3.5°	214.8	213.5	214.6	215.2	214.7	215.1
4°	214.4	214.0	213.5	214.7	213.9	215.8
4.5°	214.1	214.1	214.1	214.2	214.2	215.7
5°	214.5	214.5	214.8	213.5	214.3	216.2
5.5°	214.1	212.9	213.7	214.0	213.0	214.1
6°	212.5	213.9	213.9	214.9	213.1	213.6
6.5°	213.5	211.9	213.1	214.6	213.1	213.0
7°	213.7	212.7	212.5	213.4	214.0	213.6
7.5°	212.9	211.5	212.9	213.3	214.5	213.7
8°	213.0	212.0	212.5	213.3	212.9	214.1
8.5°	212.4	211.1	211.8	211.3	212.3	212.9
9°	211.7	211.1	211.9	211.7	210.5	212.6
9.5°	210.1	211.5	210.1	211.7	211.7	212.1
10°	211.3	210.4	209.7	211.3	211.0	212.3
10.5°	210.0	210.1	211.0	211.5	210.9	212.5
11°	210.1	209.4	209.8	211.1	210.9	211.7
11.5°	209.4	208.4	209.6	210.3	209.7	210.9
12°	208.7	208.9	209.5	208.7	208.7	211.0
12.5°	208.4	207.6	208.7	207.7	207.7	210.5
13°	208.3	206.9	208.0	207.7	207.7	210.1
13.5°	206.9	206.4	206.8	208.0	207.6	209.5
14°	207.0	206.1	206.3	207.5	207.2	208.5
14.5°	205.9	206.1	206.1	206.8	207.1	208.3
15°	205.7	205.4	205.1	206.1	206.8	207.3
15.5°	205.0	204.3	204.8	205.6	206.3	207.0
16°	204.9	203.5	203.9	205.0	204.5	206.5
16.5°	204.3	203.0	203.0	204.2	204.3	205.3
17°	203.1	202.1	202.7	203.7	203.9	205.9
17.5°	202.9	202.1	202.4	203.0	202.7	204.7
18°	202.0	200.8	201.7	201.6	202.3	203.8
18.5°	201.1	200.5	200.8	201.2	201.6	203.4
19°	201.5	200.3	200.3	200.4	201.1	201.9
19.5°	200.1	199.4	199.2	200.2	200.0	201.4
20°	199.2	198.9	198.9	199.4	199.9	200.5
20.5°	198.1	197.2	198.7	198.1	198.9	199.8
21°	197.1	196.6	197.2	197.9	198.4	199.2
21.5°	196.1	196.5	196.8	197.1	197.5	198.4
22°	196.2	195.5	195.2	196.5	196.3	198.1



TEST NUMBER: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	195.3	194.6	194.3	196.0	195.3	197.2
23°	194.4	193.5	193.9	194.7	195.0	195.8
23.5°	193.4	192.9	193.3	193.3	194.1	195.1
24°	191.6	191.8	192.6	193.1	193.6	194.2
24.5°	190.5	190.7	191.6	192.0	192.0	193.3
25°	190.0	189.5	190.2	191.0	191.1	193.0
25.5°	190.4	188.8	189.2	189.9	190.3	192.0
26°	189.0	186.9	188.4	189.1	189.4	190.7
26.5°	188.1	186.9	187.2	188.1	189.0	189.8
27°	186.8	186.6	186.2	186.8	188.2	188.7
27.5°	185.8	185.6	185.2	185.9	186.9	187.8
28°	184.6	183.8	184.4	184.8	185.6	187.2
28.5°	183.7	182.4	183.4	183.8	184.8	186.2
29°	182.6	181.5	181.8	182.4	183.5	184.8
29.5°	181.5	180.0	180.9	181.4	182.1	184.0
30°	180.4	178.2	180.2	180.5	181.2	182.9
30.5°	179.4	177.6	178.7	179.6	180.0	181.8
31°	178.1	177.5	177.8	178.8	179.2	181.0
31.5°	176.7	176.6	176.4	177.4	177.7	179.8
32°	175.6	176.1	174.8	176.3	176.8	178.6
32.5°	174.4	175.4	173.8	175.2	175.6	177.4
33°	173.4	173.8	172.7	173.9	174.5	176.3
33.5°	172.4	172.2	171.6	173.0	173.4	175.1
34°	171.4	170.8	170.5	171.7	172.0	173.8
34.5°	170.3	169.8	169.4	170.3	170.9	172.8
35°	169.0	168.8	168.1	169.1	169.7	171.8
35.5°	167.8	167.6	166.9	167.9	168.3	170.3
36°	166.5	165.8	165.7	166.7	167.0	169.2
36.5°	165.3	164.2	164.6	165.6	165.7	168.0
37°	164.0	163.0	163.4	164.2	164.6	166.6
37.5°	162.8	161.6	162.2	163.0	163.2	165.5
38°	161.5	159.9	161.0	161.8	162.0	164.0
38.5°	160.1	158.2	159.6	160.4	160.8	162.9
39°	158.6	157.0	158.2	159.2	159.4	161.4
39.5°	157.4	155.8	157.0	157.7	158.4	159.8
40°	155.8	154.7	155.4	156.6	157.0	158.6
40.5°	154.4	153.6	153.9	155.0	155.7	157.8
41°	153.2	152.4	152.6	153.6	154.5	156.5
41.5°	152.0	150.8	151.0	152.4	153.0	154.6
42°	150.4	149.9	149.7	150.8	151.7	153.5
42.5°	149.2	148.4	148.2	149.7	150.4	152.1
43°	147.8	146.6	146.7	147.9	148.8	150.8
43.5°	146.4	145.1	145.3	146.8	147.5	149.4
44°	145.0	143.8	144.2	145.0	146.2	148.1
44.5°	143.6	142.8	142.4	143.6	144.6	146.8



TEST NUMBER: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	142.1	141.2	140.9	142.4	143.3	145.4
45.5°	140.4	139.6	139.4	141.0	141.6	143.7
46°	139.0	138.0	138.1	139.3	140.3	142.0
46.5°	137.6	136.3	136.8	137.8	138.8	140.3
47°	135.9	134.9	135.2	136.3	137.3	139.4
47.5°	134.5	133.4	133.8	134.8	135.7	137.7
48°	132.9	132.1	132.1	133.3	134.2	136.2
48.5°	131.3	130.5	130.4	131.9	132.5	134.5
49°	129.7	128.7	128.9	130.3	131.0	133.0
49.5°	128.3	126.9	127.5	128.7	129.7	131.5
50°	126.7	125.3	125.8	127.3	128.1	129.9
50.5°	125.1	123.7	124.3	125.5	126.5	128.2
51°	123.3	122.4	122.9	123.9	124.9	126.6
51.5°	121.7	120.8	121.1	122.2	123.3	125.0
52°	120.1	119.1	119.3	120.5	121.7	123.4
52.5°	118.5	117.2	117.7	119.0	120.0	121.8
53°	116.9	115.4	116.2	117.3	118.3	120.3
53.5°	115.3	113.9	114.6	115.5	116.5	118.7
54°	113.7	112.3	112.7	113.8	114.6	117.3
54.5°	112.1	110.5	111.1	112.1	113.3	115.3
55°	110.3	108.7	109.3	110.5	111.5	113.7
55.5°	108.5	107.3	107.7	108.8	109.7	112.1
56°	106.9	105.6	106.0	107.1	108.1	110.3
56.5°	105.3	104.1	104.6	105.4	106.4	108.5
57°	103.6	102.3	102.6	103.7	105.0	106.7
57.5°	101.9	100.5	100.9	101.9	103.4	105.1
58°	100.2	98.8	99.1	100.2	101.6	103.4
58.5°	98.5	97.1	97.4	98.5	99.8	101.8
59°	96.7	95.3	95.5	96.7	97.9	100.0
59.5°	95.0	93.5	93.8	94.9	96.3	98.2
60°	93.2	91.7	91.9	93.2	94.4	96.6
60.5°	91.4	89.8	90.3	91.5	92.6	94.6
61°	89.6	88.0	88.4	89.5	90.9	92.9
61.5°	87.7	86.3	86.6	87.7	89.0	91.2
62°	86.0	84.5	84.9	85.9	87.1	89.4
62.5°	84.3	82.6	83.1	84.1	85.3	87.5
63°	82.4	80.9	81.2	82.4	83.5	85.7
63.5°	80.6	79.2	79.4	80.5	81.8	83.9
64°	78.7	77.2	77.4	78.6	79.9	82.0
64.5°	76.8	75.2	75.7	76.8	78.2	80.2
65°	75.0	73.4	73.8	75.0	76.3	78.4
65.5°	72.9	71.6	71.9	73.2	74.5	76.6
66°	71.1	69.8	70.1	71.2	72.6	74.7
66.5°	69.2	67.9	68.2	69.2	70.8	72.9
67°	67.3	66.0	66.4	67.5	68.8	71.2



TEST NUMBER: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-UNIT

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	65.4	64.1	64.4	65.4	66.9	69.0
68°	63.5	62.3	62.4	63.6	65.0	67.0
68.5°	61.6	60.2	60.6	61.6	63.0	65.1
69°	59.7	58.4	58.7	59.9	61.1	63.2
69.5°	57.8	56.6	56.8	58.0	59.3	61.3
70°	56.0	54.8	55.0	56.0	57.4	59.5
70.5°	54.1	52.8	53.0	54.1	55.4	57.7
71°	52.2	50.9	51.2	52.3	53.6	55.8
71.5°	50.4	49.0	49.1	50.2	51.6	53.8
72°	48.4	47.0	47.2	48.4	49.9	51.8
72.5°	46.5	45.2	45.4	46.4	47.9	50.0
73°	44.6	43.2	43.4	44.4	46.0	48.0
73.5°	42.6	41.3	41.5	42.6	44.2	46.1
74°	40.8	39.6	39.7	40.7	42.2	44.3
74.5°	38.9	37.6	37.6	38.8	40.2	42.3
75°	37.1	35.8	35.9	37.0	38.4	40.4
75.5°	35.2	34.0	34.1	35.0	36.5	38.4
76°	33.4	32.0	32.2	33.2	34.6	36.7
76.5°	31.6	30.2	30.3	31.4	32.7	34.8
77°	29.8	28.4	28.5	29.6	30.9	32.8
77.5°	28.0	26.5	26.8	27.7	29.1	31.2
78°	26.3	24.8	24.9	26.0	27.3	29.2
78.5°	24.5	23.1	23.2	24.2	25.6	27.5
79°	22.8	21.3	21.5	22.5	23.8	25.7
79.5°	21.1	19.6	19.8	20.7	22.1	23.9
80°	19.3	17.9	18.0	19.0	20.3	22.1
80.5°	17.7	16.2	16.4	17.4	18.6	20.5
81°	16.1	14.7	14.9	15.7	17.1	18.7
81.5°	14.6	13.3	13.4	14.3	15.4	17.1
82°	13.1	11.7	11.9	12.7	14.0	15.5
82.5°	11.7	10.3	10.5	11.3	12.5	14.0
83°	10.3	9.0	9.1	9.9	10.9	12.5
83.5°	8.8	7.7	7.8	8.5	9.5	11.0
84°	7.5	6.4	6.5	7.2	8.2	9.6
84.5°	6.3	5.3	5.3	6.0	6.9	8.3
85°	5.1	4.2	4.2	4.8	5.9	7.0
85.5°	4.0	3.3	3.3	3.7	4.6	5.9
86°	3.0	2.3	2.5	2.9	3.6	4.7
86.5°	2.1	1.5	1.7	2.1	2.7	3.7
87°	1.2	0.9	1.0	1.3	1.9	2.7
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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070
 CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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: P522070

CATALOG NUMBER: HLBLV4069FSE010MW-3500K-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)