

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: P473754

Luminaire Tested: **HLB4069BLE40AWH-4000K**

Issue Date: 2/2/2021



Test Information

Test Method: LM-79-08
Report Number: P473754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2008840A001)
Test Lab: INNOVATION CENTER
Issue Date: 2/2/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLB4069BLE40AWH-4000K
Description: 4in HALO HOME BLADE
Light Source: -
Ballast/Driver: -

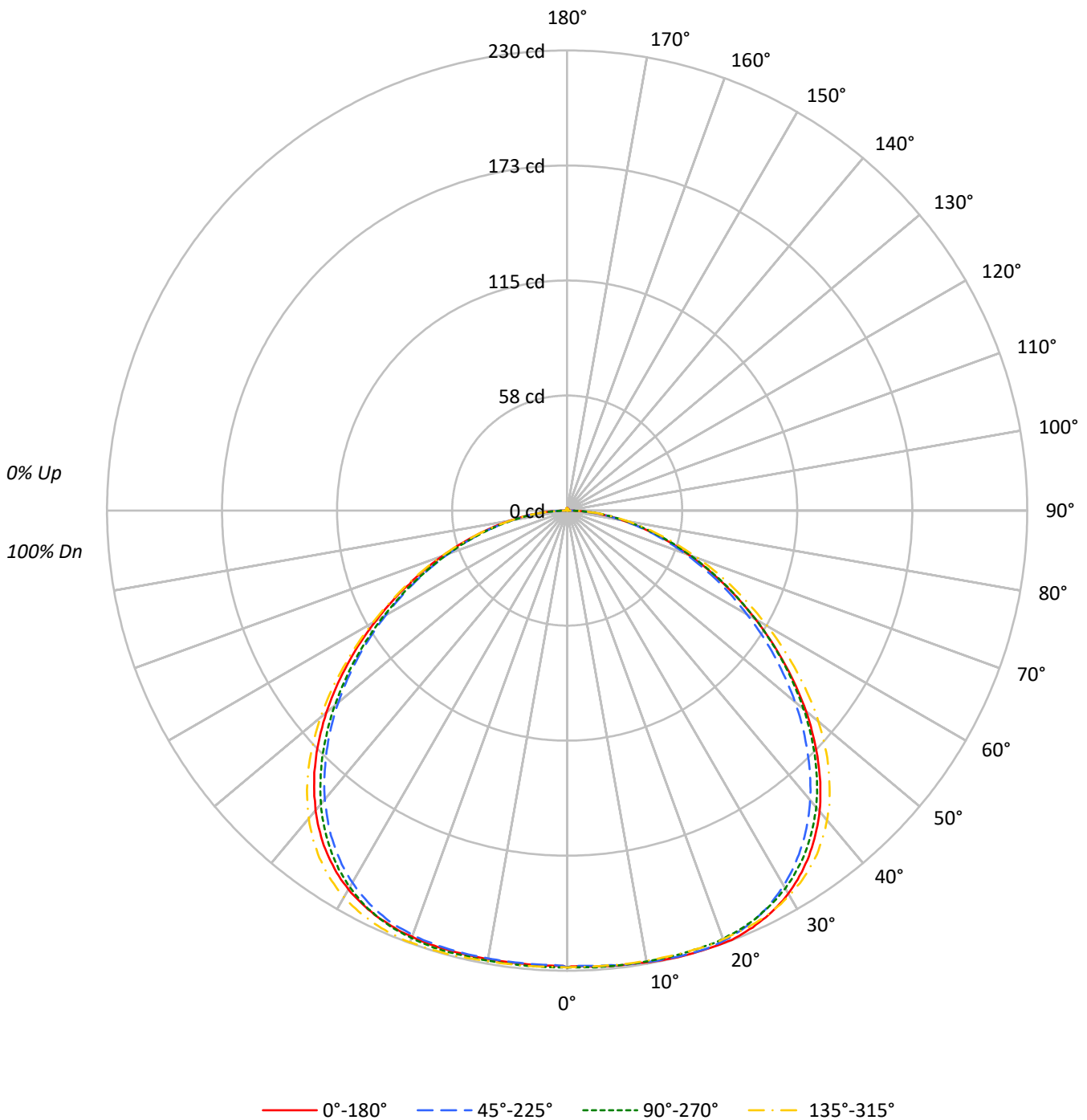
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 728.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.4 / 1.47
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
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





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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	63	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2607	2607	2607	2607
5°	2619	2620	2608	2617
10°	2657	2652	2638	2647
15°	2718	2702	2689	2700
20°	2792	2766	2752	2762
25°	2860	2826	2822	2822
30°	2914	2874	2881	2864
35°	2937	2897	2915	2876
40°	2925	2884	2914	2852
45°	2862	2831	2871	2791
50°	2766	2738	2789	2692
55°	2633	2619	2668	2569
60°	2481	2486	2525	2424
65°	2325	2341	2341	2277
70°	2166	2196	2212	2122
75°	2011	2059	2055	1967
80°	1860	1959	1913	1808
85°	1768	1964	1846	1637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	3.0
10°-20°	64.8	8.9
20°-30°	103.8	14.3
30°-40°	130.4	17.9
40°-50°	135.8	18.7
50°-60°	118.1	16.2
60°-70°	85.7	11.8
70°-80°	48.9	6.7
80°-90°	15.3	2.1
90°-100°	0.4	0.1
100°-110°	0.4	0.1
110°-120°	0.4	0.1
120°-130°	0.4	0.1
130°-140°	0.5	0.1
140°-150°	0.4	0.1
150°-160°	0.4	0.1
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	190.3	26.1
0°-40°	320.8	44.1
0°-60°	574.7	78.9
0°-90°	724.6	99.5
90°-120°	1.3	0.2
90°-150°	2.6	0.4
90°-180°	3.0	0.4
0°-180°	728.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	228	228	228	228	228	
5°	229	229	228	228	229	22
15°	230	229	228	228	230	65
25°	227	224	224	224	227	105
35°	211	208	209	206	211	132
45°	177	175	178	173	177	137
55°	132	132	134	129	132	118
65°	86	87	87	84	86	85
75°	46	47	47	45	46	48
85°	14	15	14	12	14	14
90°	1	2	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	1	0	0	0
135°	1	0	1	0	1	1
145°	1	1	0	0	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
0.5°	227.8	227.7	227.7	227.6	228.4	228.2	228.2	227.9	227.6	227.7	227.6
1°	227.8	227.7	227.7	227.6	228.4	228.2	228.2	227.9	227.6	227.7	227.5
1.5°	227.8	227.7	227.7	227.6	228.4	228.4	228.2	227.9	227.6	227.7	227.3
2°	227.8	227.7	227.7	227.7	228.5	228.4	228.2	227.9	227.6	227.7	227.3
2.5°	228.0	227.8	227.8	227.8	228.4	228.3	228.2	227.9	227.6	227.7	227.3
3°	228.2	227.9	227.9	227.8	228.7	228.3	228.2	227.9	227.6	227.7	227.3
3.5°	228.4	228.0	228.0	227.8	228.7	228.3	228.2	227.9	227.6	227.7	227.3
4°	228.4	228.1	228.0	227.9	228.7	228.4	228.2	227.9	227.6	227.7	227.3
4.5°	228.4	228.1	228.1	228.0	228.7	228.6	228.2	227.9	227.6	227.7	227.3
5°	228.6	228.4	228.2	228.0	228.7	228.6	228.2	227.9	227.6	227.7	227.3
5.5°	228.7	228.7	228.2	228.2	228.8	228.7	228.4	227.9	227.6	227.7	227.3
6°	228.7	228.7	228.5	228.4	228.8	228.7	228.4	227.9	227.6	227.7	227.3
6.5°	228.8	228.8	228.7	228.4	228.8	228.7	228.4	227.9	227.6	227.7	227.3
7°	228.9	228.8	228.9	228.6	228.8	228.7	228.4	227.9	227.6	227.7	227.3
7.5°	228.9	228.9	228.9	228.6	228.8	228.7	228.5	227.9	227.6	227.7	227.3
8°	228.9	228.9	228.9	228.9	228.8	228.7	228.5	227.9	227.6	227.7	227.3
8.5°	229.0	229.0	228.9	229.0	228.8	228.7	228.5	227.9	227.6	227.7	227.3
9°	228.9	229.1	229.0	229.0	228.8	228.7	228.5	227.9	227.6	227.7	227.3
9.5°	229.1	229.2	229.0	229.0	228.8	228.7	228.5	227.9	227.6	227.6	227.3
10°	229.3	229.2	229.2	229.1	228.8	228.7	228.5	227.9	227.6	227.6	227.3
10.5°	229.5	229.5	229.2	229.1	228.8	228.7	228.5	227.9	227.6	227.6	227.3
11°	229.5	229.8	229.3	229.2	228.8	228.7	228.5	227.9	227.6	227.6	227.4
11.5°	229.6	229.8	229.5	229.1	228.8	228.7	228.5	227.9	227.6	227.6	227.3
12°	229.7	229.8	229.4	229.2	228.8	228.7	228.5	227.9	227.6	227.6	227.3
12.5°	229.7	229.8	229.5	229.3	228.8	228.7	228.5	227.9	227.6	227.6	227.3
13°	229.8	229.8	229.6	229.3	228.9	228.7	228.5	227.9	227.6	227.6	227.2
13.5°	229.9	229.8	229.7	229.3	228.8	228.7	228.5	227.9	227.6	227.5	227.1
14°	230.0	229.8	229.8	229.3	228.8	228.7	228.5	227.9	227.6	227.5	227.1
14.5°	230.0	229.8	229.8	229.3	228.8	228.7	228.5	227.9	227.6	227.2	227.1
15°	230.0	229.8	229.8	229.3	228.7	228.7	228.5	227.9	227.6	227.3	227.1
15.5°	230.0	229.8	229.8	229.3	228.7	228.7	228.5	227.9	227.5	227.1	226.9
16°	230.0	229.9	229.8	229.3	228.5	228.7	228.5	227.9	227.5	227.1	226.9
16.5°	230.0	229.9	229.8	229.3	228.6	228.7	228.5	227.9	227.5	226.9	226.9
17°	230.0	230.0	229.8	229.3	228.6	228.6	228.5	227.8	227.4	226.9	226.7
17.5°	230.0	230.0	229.8	229.3	228.4	228.5	228.5	227.7	227.4	226.8	226.5
18°	230.0	230.0	229.7	229.3	228.4	228.5	228.5	227.5	227.3	226.7	226.5
18.5°	230.0	230.0	229.5	229.1	228.3	228.5	228.5	227.4	227.2	226.5	226.4
19°	230.0	229.7	229.3	228.9	228.3	228.4	228.2	227.4	226.9	226.5	226.1
19.5°	230.0	229.5	229.1	228.9	228.1	228.4	228.2	227.4	226.9	226.4	226.0
20°	229.9	229.3	228.8	228.6	227.7	228.5	228.0	227.3	226.6	226.2	225.7
20.5°	229.8	229.1	228.6	228.4	227.5	228.2	228.0	227.0	226.5	225.8	225.4
21°	229.8	228.9	228.3	228.1	227.1	227.8	227.6	226.9	226.4	225.6	225.1
21.5°	229.5	228.7	227.8	227.7	227.1	227.6	227.5	226.8	226.3	225.4	224.9
22°	229.3	228.3	227.4	227.3	226.7	227.4	227.4	226.6	226.0	225.1	224.6



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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°	228.9	227.8	227.1	227.1	226.4	227.2	227.3	226.6	225.6	224.7	224.3
23°	228.7	227.5	226.6	226.6	226.1	227.0	227.1	226.4	225.4	224.4	223.9
23.5°	228.3	227.0	226.2	226.1	225.6	226.7	227.1	226.2	225.1	224.0	223.6
24°	228.1	226.5	225.6	225.6	225.3	226.5	226.7	226.1	224.7	223.5	223.1
24.5°	227.5	226.1	225.1	225.2	224.9	226.3	226.6	225.5	224.5	223.2	222.4
25°	227.1	225.5	224.4	224.7	224.4	226.0	226.3	225.3	224.1	222.5	222.1
25.5°	226.7	225.0	223.9	224.0	223.9	225.4	226.1	225.1	223.8	222.1	221.4
26°	226.3	224.3	223.2	223.5	223.2	225.2	225.8	225.1	223.2	221.8	220.8
26.5°	225.7	223.7	222.5	222.5	222.8	224.7	225.4	224.4	222.9	221.0	220.2
27°	225.2	223.1	221.6	221.8	222.1	224.1	225.0	224.0	222.2	220.5	219.5
27.5°	224.6	222.3	220.9	221.3	221.6	223.8	224.5	223.9	221.7	219.8	218.8
28°	224.0	221.6	220.1	220.4	220.9	223.2	224.1	223.0	221.1	219.1	218.0
28.5°	223.3	220.7	219.2	219.6	220.3	222.5	223.8	222.7	220.5	218.3	217.2
29°	222.7	219.8	218.3	218.7	219.5	222.1	223.2	222.1	220.0	217.6	216.6
29.5°	221.9	218.9	217.4	217.8	218.7	221.4	222.6	221.6	219.4	217.0	215.6
30°	221.1	218.0	216.4	216.8	218.1	220.8	222.0	221.0	218.6	216.1	214.7
30.5°	220.2	217.2	215.4	215.7	217.1	220.1	221.5	220.3	217.8	215.3	213.8
31°	219.3	216.2	214.3	214.8	216.3	219.4	220.7	219.8	217.1	214.4	212.8
31.5°	218.3	215.1	213.2	213.8	215.5	218.5	220.1	219.0	216.3	213.3	211.9
32°	217.5	214.0	212.1	212.7	214.4	217.6	219.6	218.3	215.4	212.3	210.6
32.5°	216.3	212.9	210.9	211.6	213.4	216.8	218.8	217.5	214.5	211.4	209.6
33°	215.4	211.7	209.7	210.4	212.3	215.9	217.9	216.6	213.5	210.3	208.4
33.5°	214.2	210.4	208.4	209.1	211.3	214.9	217.2	215.6	212.4	209.3	207.1
34°	213.0	209.2	207.2	207.8	210.3	213.9	216.2	214.8	211.4	208.2	206.0
34.5°	212.0	207.9	205.8	206.4	209.1	212.8	215.2	213.9	210.3	207.0	204.7
35°	210.8	206.5	204.5	205.0	207.9	211.8	214.4	212.9	209.2	205.7	203.4
35.5°	209.4	205.2	203.1	203.6	206.6	210.9	213.4	211.8	208.0	204.5	202.0
36°	208.2	203.7	201.7	202.4	205.3	209.7	212.4	210.8	206.9	203.2	200.8
36.5°	206.8	202.2	200.2	200.9	204.0	208.5	211.2	209.6	205.6	201.7	199.4
37°	205.4	200.8	198.8	199.4	202.6	207.2	209.9	208.5	204.3	200.2	198.1
37.5°	203.9	199.3	197.2	197.9	201.2	206.0	208.7	207.1	202.9	198.9	196.3
38°	202.4	197.7	195.6	196.3	199.8	204.5	207.5	205.8	201.5	197.6	194.7
38.5°	201.0	196.1	194.1	194.8	198.3	203.1	206.2	204.5	200.2	195.9	193.1
39°	199.4	194.6	192.4	193.1	196.7	201.8	204.9	203.0	198.7	194.3	191.6
39.5°	197.9	193.0	190.7	191.5	195.3	200.4	203.5	201.6	197.2	192.6	190.0
40°	196.3	191.2	189.0	189.7	193.6	198.9	202.0	200.1	195.6	191.2	188.4
40.5°	194.6	189.5	187.2	188.0	192.0	197.3	200.6	198.6	193.9	189.5	186.7
41°	192.9	187.7	185.5	186.3	190.2	195.8	199.0	197.1	192.2	187.8	185.0
41.5°	191.0	185.9	183.4	184.5	188.6	194.1	197.7	195.6	190.7	186.1	183.2
42°	189.1	183.9	181.6	182.5	186.7	192.4	196.0	194.0	189.0	184.3	181.5
42.5°	187.3	182.1	179.7	180.7	184.9	190.7	194.2	192.1	187.2	182.5	179.5
43°	185.5	180.2	177.8	178.8	183.1	189.0	192.4	190.4	185.4	180.7	177.6
43.5°	183.4	178.1	175.8	176.9	181.1	187.2	190.6	188.7	183.7	178.8	175.7
44°	181.4	176.1	173.8	174.8	179.3	185.4	188.7	186.9	181.9	176.9	173.9
44.5°	179.5	174.2	171.8	172.9	177.3	183.3	187.0	185.2	179.8	174.9	171.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	177.3	172.2	169.7	170.9	175.4	181.4	185.0	183.2	177.9	172.9	170.0
45.5°	175.4	170.0	167.7	168.9	173.4	179.3	183.1	181.3	176.0	170.9	167.9
46°	173.3	168.0	165.6	166.9	171.3	177.3	181.2	179.2	174.1	168.9	166.1
46.5°	171.1	165.8	163.7	164.7	169.2	175.3	179.2	177.2	171.9	167.0	164.0
47°	169.0	163.9	161.6	162.7	167.2	173.2	177.0	175.0	169.9	164.8	162.0
47.5°	166.8	161.8	159.4	160.7	165.0	171.1	174.8	172.8	167.8	162.8	160.0
48°	164.6	159.6	157.3	158.5	163.0	168.9	172.8	170.9	165.8	160.8	157.9
48.5°	162.7	157.3	155.2	156.3	160.8	166.8	170.7	168.8	163.5	158.7	155.8
49°	160.3	155.2	153.1	154.2	158.7	164.6	168.4	166.6	161.5	156.6	153.7
49.5°	158.1	152.9	150.8	151.9	156.6	162.6	166.1	164.4	159.2	154.3	151.5
50°	155.8	150.7	148.6	149.8	154.2	160.4	163.9	162.2	157.1	152.1	149.3
50.5°	153.5	148.4	146.5	147.5	152.0	158.0	161.8	160.1	154.8	149.9	147.2
51°	151.2	146.2	144.1	145.4	149.8	155.8	159.5	157.9	152.6	147.7	145.0
51.5°	148.8	143.9	141.9	143.1	147.5	153.7	157.2	155.6	150.4	145.5	142.8
52°	146.4	141.6	139.8	140.9	145.2	151.3	154.8	153.2	148.1	143.2	140.6
52.5°	144.1	139.2	137.5	138.4	142.9	148.8	152.3	150.9	145.8	140.9	138.4
53°	141.8	137.0	135.2	136.2	140.7	146.4	149.8	148.6	143.5	138.6	136.1
53.5°	139.4	134.6	133.0	134.0	138.4	144.1	147.5	146.2	141.1	136.3	133.9
54°	137.0	132.2	130.7	131.8	136.1	141.8	144.9	143.8	138.8	134.0	131.6
54.5°	134.6	129.9	128.7	129.5	133.8	139.5	142.6	141.3	136.4	131.7	129.4
55°	132.3	127.8	126.3	127.3	131.6	137.2	140.1	138.9	134.1	129.3	127.3
55.5°	129.9	125.4	124.1	125.0	129.2	134.7	137.7	136.5	131.7	127.0	125.0
56°	127.6	123.1	121.8	122.8	127.0	132.2	135.2	134.0	129.4	124.8	122.7
56.5°	125.3	120.8	119.5	120.4	124.8	129.8	132.8	131.5	127.1	122.5	120.5
57°	122.9	118.7	117.3	118.2	122.5	127.6	130.3	129.1	124.8	120.2	118.2
57.5°	120.5	116.2	115.2	115.8	120.1	125.1	127.9	126.7	122.4	118.0	115.9
58°	118.1	113.9	112.8	113.7	117.8	122.8	125.5	124.3	120.0	115.7	113.7
58.5°	115.8	111.7	110.7	111.3	115.7	120.5	123.0	122.0	117.7	113.3	111.5
59°	113.3	109.4	108.4	109.2	113.4	118.1	120.5	119.6	115.3	111.2	109.3
59.5°	111.1	107.2	106.1	107.0	111.2	115.7	118.1	117.1	113.0	108.9	107.0
60°	108.7	105.0	103.9	104.7	108.9	113.3	115.6	114.7	110.6	106.7	104.7
60.5°	106.4	102.7	101.7	102.5	106.5	110.9	113.2	112.3	108.3	104.4	102.6
61°	104.0	100.5	99.5	100.4	104.3	108.4	110.7	109.9	106.0	102.2	100.4
61.5°	101.9	98.2	97.4	98.2	102.0	106.3	108.3	107.5	103.7	100.0	98.2
62°	99.4	96.1	95.2	96.1	99.7	103.8	106.0	105.1	101.3	97.8	96.1
62.5°	97.2	94.0	93.3	94.1	97.5	101.5	103.5	102.7	99.0	95.5	93.9
63°	94.9	91.9	91.1	92.0	95.3	99.2	101.3	100.3	96.8	93.3	91.9
63.5°	92.8	89.7	89.2	89.8	93.1	97.0	98.8	98.0	94.5	91.4	89.8
64°	90.5	87.7	86.9	87.8	91.1	94.6	96.6	95.7	92.4	89.3	87.6
64.5°	88.3	85.6	84.9	85.6	89.0	92.5	94.2	93.2	89.9	87.1	85.5
65°	86.1	83.5	82.8	83.5	86.7	90.3	92.1	91.1	86.7	84.6	83.4
65.5°	83.9	81.3	80.6	81.4	84.6	88.2	89.9	88.8	85.6	82.2	81.3
66°	81.7	79.3	78.6	79.4	82.4	85.7	87.5	86.4	83.3	80.6	79.3
66.5°	79.5	77.1	76.6	77.5	80.2	83.5	85.2	84.1	81.2	78.5	77.2
67°	77.3	75.1	74.5	75.3	78.2	81.3	83.1	82.0	79.0	76.5	75.2



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	75.3	73.1	72.5	73.4	76.1	79.2	80.8	79.7	76.8	74.4	73.0
68°	73.2	71.0	70.5	71.4	73.9	76.9	78.5	77.4	74.7	72.3	71.0
68.5°	71.0	69.0	68.6	69.4	71.9	74.7	76.2	75.3	72.6	70.3	68.9
69°	68.9	67.1	66.6	67.4	69.9	72.5	74.0	73.1	70.4	68.3	67.0
69.5°	66.8	65.1	64.5	65.3	67.8	70.5	71.8	70.9	68.3	66.2	65.1
70°	64.9	63.1	62.7	63.5	65.8	68.3	69.6	68.7	66.3	64.2	63.0
70.5°	62.7	61.1	60.8	61.5	63.8	66.3	67.4	66.5	64.3	62.2	61.1
71°	60.7	59.2	58.9	59.6	61.8	64.1	65.3	64.4	62.2	60.2	59.2
71.5°	58.9	57.4	57.1	57.8	59.8	62.1	63.1	62.3	60.1	58.3	57.4
72°	57.1	55.5	55.3	55.8	57.9	60.0	61.0	60.3	58.2	56.4	55.5
72.5°	55.1	53.5	53.3	54.1	56.1	58.0	58.9	58.2	56.4	54.5	53.6
73°	53.1	51.6	51.4	52.1	54.2	56.1	57.0	56.3	54.3	52.6	51.9
73.5°	51.1	49.8	49.6	50.3	52.3	54.2	55.0	54.2	52.3	50.9	49.9
74°	49.2	48.0	47.8	48.6	50.4	52.3	53.1	52.2	50.4	48.8	48.1
74.5°	47.4	46.2	46.0	46.7	48.6	50.3	50.9	50.2	48.4	46.9	46.3
75°	45.6	44.4	44.3	44.9	46.7	48.4	49.0	48.2	46.6	45.1	44.6
75.5°	43.7	42.7	42.5	43.1	45.0	46.6	47.0	46.4	44.8	43.3	42.8
76°	41.9	41.0	41.0	41.4	43.3	44.7	45.1	44.5	43.0	41.5	41.1
76.5°	40.1	39.2	39.1	39.6	41.5	42.8	43.2	42.5	41.1	39.9	39.3
77°	38.4	37.5	37.5	37.8	39.8	41.1	41.3	40.8	39.3	38.0	37.7
77.5°	36.7	35.9	35.8	36.3	38.1	39.2	39.6	38.9	37.6	36.4	36.0
78°	35.1	34.2	34.2	34.6	36.4	37.7	37.7	37.1	35.9	34.8	34.4
78.5°	33.3	32.5	32.6	32.9	34.7	35.7	35.9	35.4	34.1	33.2	32.7
79°	31.6	31.0	31.0	31.3	33.0	34.1	34.2	33.6	32.5	31.3	31.2
79.5°	30.0	29.3	29.4	29.6	31.4	32.5	32.4	31.9	30.7	29.8	29.6
80°	28.3	27.8	27.9	28.2	29.8	30.9	30.7	30.2	29.1	28.2	28.0
80.5°	26.8	26.3	26.3	26.6	28.1	29.0	29.0	28.6	27.4	26.7	26.5
81°	25.2	24.7	24.8	24.9	26.6	27.4	27.4	26.9	25.9	25.0	24.9
81.5°	23.8	23.4	23.5	23.7	25.0	25.7	25.7	25.3	24.3	23.6	23.3
82°	22.3	22.0	22.1	22.3	23.5	24.0	24.0	23.7	22.9	22.5	22.0
82.5°	20.7	20.6	20.6	20.7	22.1	22.8	22.8	22.3	21.4	20.9	20.5
83°	19.3	19.1	19.2	19.3	20.7	21.3	21.2	20.7	19.9	19.2	19.1
83.5°	17.8	17.6	17.7	17.9	19.3	19.7	19.5	19.2	18.5	17.8	17.6
84°	16.3	16.2	16.3	16.5	17.8	18.3	18.1	17.6	17.0	16.4	16.1
84.5°	15.0	14.8	15.0	15.1	16.4	16.9	16.4	16.1	15.5	15.0	14.8
85°	13.5	13.5	13.6	13.7	15.0	15.2	15.1	14.7	14.1	13.7	13.3
85.5°	12.1	12.1	12.3	12.4	13.6	13.9	13.7	13.3	12.7	12.2	11.9
86°	10.7	10.9	11.0	11.1	12.2	12.4	12.2	11.8	11.3	10.9	10.6
86.5°	9.4	9.5	9.6	9.8	10.9	11.1	10.7	10.5	9.9	9.5	9.3
87°	8.1	8.4	8.4	8.5	9.5	9.6	9.3	8.9	8.6	8.2	7.9
87.5°	6.9	7.1	7.2	7.3	8.3	8.3	7.9	7.5	7.2	6.7	6.5
88°	5.6	6.0	5.9	6.1	6.9	6.9	6.5	6.2	5.9	5.3	5.2
88.5°	4.3	4.7	4.8	4.8	5.6	5.4	5.1	5.1	4.6	4.1	3.8
89°	3.1	3.5	3.7	3.6	4.3	4.1	3.7	3.5	3.2	2.8	2.5
89.5°	2.0	2.3	2.6	2.5	3.0	2.9	2.4	2.2	1.9	1.5	1.3



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.2	1.4	1.7	1.8	1.8	1.7	1.5	1.2	0.9	0.6	0.6
90.5°	0.9	1.0	1.2	1.3	0.9	0.7	0.9	0.7	0.4	0.4	0.4
91°	0.7	0.8	0.9	0.8	0.4	0.2	0.3	0.0	0.4	0.3	0.4
91.5°	0.6	0.7	0.7	0.7	0.3	0.1	0.3	0.0	0.5	0.3	0.3
92°	0.6	0.6	0.6	0.5	0.3	0.1	0.3	0.0	0.4	0.3	0.3
92.5°	0.5	0.6	0.6	0.5	0.3	0.1	0.2	0.0	0.4	0.3	0.3
93°	0.5	0.5	0.5	0.5	0.3	0.1	0.2	0.0	0.4	0.3	0.3
93.5°	0.5	0.4	0.5	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
94°	0.5	0.4	0.5	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
94.5°	0.4	0.4	0.5	0.4	0.3	0.1	0.2	0.0	0.4	0.3	0.3
95°	0.4	0.4	0.4	0.5	0.3	0.1	0.2	0.0	0.4	0.4	0.3
95.5°	0.4	0.4	0.4	0.4	0.3	0.1	0.2	0.0	0.4	0.5	0.3
96°	0.4	0.4	0.4	0.3	0.3	0.1	0.2	0.0	0.4	0.4	0.3
96.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.0	0.4	0.4	0.3
97°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
97.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
98°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
98.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
99°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
99.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
100°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.0	0.4	0.4	0.3
100.5°	0.4	0.4	0.4	0.3	0.4	0.3	0.2	0.1	0.4	0.4	0.3
101°	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.3
101.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.5	0.4	0.4	0.3
102°	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.4	0.4	0.4	0.3
102.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
103°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
103.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3
104°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4	0.4	0.3
104.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.4	0.4	0.4	0.3
105°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.5	0.4	0.3
105.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3
106°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3
106.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3
107°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.3
107.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
108°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
108.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4
109°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4
109.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4
110°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4
110.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4
111°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4
111.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.5	0.4
112°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.4
113°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.5	0.4
113.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.9	0.5	0.4
114°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.4	0.5	0.4
114.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.4	0.5	0.4
115°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.4	0.5	0.4
115.5°	0.4	0.4	0.4	0.3	0.5	0.4	0.5	0.5	0.4	0.5	0.4
116°	0.4	0.4	0.4	0.3	0.4	0.4	0.5	0.5	0.4	0.5	0.4
116.5°	0.4	0.4	0.4	0.3	0.4	0.3	0.5	0.5	0.5	0.5	0.4
117°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.4
117.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.4
118°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.4
118.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.4
119°	0.4	0.4	0.4	0.3	0.5	0.3	0.5	0.5	0.5	0.5	0.4
119.5°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.5	0.5	0.5	0.4
120°	0.4	0.4	0.4	0.3	0.5	0.3	0.6	0.5	0.5	0.5	0.4
120.5°	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.5	0.5	0.5	0.4
121°	0.4	0.4	0.4	0.3	0.5	0.5	0.6	0.5	0.5	0.5	0.4
121.5°	0.5	0.4	0.4	0.3	0.5	0.5	0.6	0.6	0.6	0.6	0.4
122°	0.5	0.4	0.4	0.3	0.5	0.3	0.5	0.6	0.6	0.6	0.4
122.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.5	0.6	0.7	0.6	0.4
123°	0.5	0.4	0.4	0.3	0.5	0.2	0.5	0.6	0.6	0.7	0.4
123.5°	0.5	0.4	0.4	0.3	0.5	0.2	0.5	0.6	0.6	0.6	0.4
124°	0.5	0.4	0.4	0.3	0.5	0.2	0.5	0.6	0.6	0.6	0.4
124.5°	0.5	0.4	0.4	0.3	0.5	0.2	0.5	0.6	0.6	0.6	0.4
125°	0.5	0.4	0.4	0.3	0.5	0.2	0.6	0.6	0.6	0.6	0.4
125.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
126°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
126.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
127°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
127.5°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
128°	0.5	0.4	0.4	0.3	0.5	0.3	0.6	0.6	0.6	0.6	0.4
128.5°	0.5	0.4	0.5	0.3	0.5	0.3	0.6	0.7	0.6	0.6	0.4
129°	0.5	0.4	0.5	0.3	0.5	0.3	0.6	0.7	0.6	0.6	0.4
129.5°	0.5	0.4	0.5	0.4	0.5	0.4	0.6	0.7	0.6	0.6	0.4
130°	0.5	0.4	0.6	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.5
130.5°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
131°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
131.5°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
132°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.5
132.5°	0.5	0.4	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.7	0.5
133°	0.6	0.5	0.6	0.5	0.5	0.5	0.6	0.7	0.6	0.7	0.5
133.5°	0.7	0.5	0.6	0.5	0.4	0.5	0.7	0.7	0.6	0.7	0.5
134°	0.7	0.5	0.6	0.5	0.6	0.5	0.7	0.7	0.6	0.7	0.5
134.5°	0.6	0.5	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.7	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5
135.5°	0.7	0.5	0.6	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5
136°	0.7	0.7	0.6	0.5	0.6	0.5	0.7	0.7	0.7	0.7	0.4
136.5°	0.7	0.7	0.6	0.6	0.7	0.5	0.7	0.7	0.7	0.7	0.5
137°	0.8	0.6	0.7	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.4
137.5°	0.8	0.7	0.8	0.5	0.6	0.5	0.5	0.7	0.7	0.7	0.4
138°	0.8	0.7	0.8	0.5	0.6	0.5	0.3	0.7	0.7	0.7	0.5
138.5°	0.8	0.7	0.8	0.5	0.6	0.5	0.3	0.7	0.7	0.7	0.6
139°	0.8	0.7	0.8	0.5	0.6	0.5	0.3	0.7	0.7	0.7	0.5
139.5°	0.8	0.8	0.8	0.5	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140°	0.8	0.7	0.8	0.5	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140.5°	0.8	0.7	0.8	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.4
141°	0.7	0.8	0.8	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.6
141.5°	1.1	1.1	0.8	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.6
142°	1.0	0.9	0.8	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.5
142.5°	0.9	0.6	0.8	0.5	0.7	0.5	0.7	0.7	0.8	0.7	0.5
143°	1.0	0.7	0.8	0.5	0.7	0.5	0.7	0.7	0.8	0.7	0.5
143.5°	0.7	0.7	0.8	0.5	0.7	0.5	0.5	0.7	0.9	0.7	0.5
144°	0.8	0.7	0.8	0.5	0.7	0.5	0.5	0.8	0.5	0.7	0.5
144.5°	0.8	0.7	0.8	0.5	0.7	0.5	0.7	0.8	0.5	0.7	0.5
145°	0.8	0.8	0.8	0.5	0.7	0.5	0.7	0.9	0.4	0.7	0.5
145.5°	0.8	0.8	0.8	0.5	0.7	0.5	0.6	0.9	0.7	0.7	0.5
146°	0.8	0.9	0.8	0.6	0.7	0.5	0.8	0.9	0.8	0.7	0.5
146.5°	0.8	0.9	0.8	0.6	0.7	0.5	0.8	1.5	0.7	0.7	0.7
147°	0.9	0.9	0.8	0.7	0.7	0.6	0.7	0.5	0.7	0.8	0.7
147.5°	0.9	0.9	0.8	0.6	0.7	0.6	0.8	0.5	0.5	0.8	0.7
148°	0.8	0.9	0.8	0.6	0.7	0.6	0.8	0.5	0.5	0.8	0.7
148.5°	0.9	1.0	0.8	0.6	0.8	0.6	0.8	0.5	0.9	0.8	0.7
149°	0.8	1.0	0.9	0.6	0.8	0.6	0.8	0.5	0.5	0.8	0.8
149.5°	0.8	1.0	0.9	0.6	0.7	0.6	0.9	0.6	0.5	0.8	0.8
150°	1.2	1.0	0.8	0.6	0.7	0.6	0.8	0.6	0.5	0.8	0.8
150.5°	0.9	1.0	0.8	0.6	0.7	0.7	0.8	0.8	0.5	0.8	0.8
151°	0.9	1.0	0.9	0.6	0.7	0.7	0.8	0.8	0.9	0.8	0.8
151.5°	0.8	1.1	0.9	0.6	0.7	0.7	0.8	0.9	0.9	0.8	0.8
152°	0.8	1.0	1.0	0.7	0.7	0.7	0.8	0.9	0.8	0.8	0.8
152.5°	1.0	1.0	1.0	0.6	0.7	0.7	0.9	1.0	0.9	0.8	0.8
153°	1.0	1.0	1.0	0.7	0.7	0.7	0.9	0.8	0.9	0.8	0.8
153.5°	0.8	1.0	0.9	0.8	0.7	0.8	0.8	0.9	0.9	0.8	0.8
154°	0.7	1.0	1.0	0.8	0.7	0.8	0.9	0.8	0.9	0.9	0.7
154.5°	0.8	1.0	1.0	0.9	0.7	0.8	0.9	0.8	1.0	0.9	0.7
155°	0.9	1.0	1.0	0.8	0.7	0.8	0.9	0.9	1.0	0.9	0.6
155.5°	0.9	1.2	1.0	0.8	0.7	0.8	0.9	0.9	1.0	1.0	0.6
156°	0.9	1.0	1.0	0.8	0.7	0.8	0.9	0.7	1.0	1.0	0.6
156.5°	0.9	1.0	1.0	0.8	0.7	0.8	0.8	0.8	1.0	1.0	0.6
157°	1.0	0.9	1.0	0.8	0.7	0.9	0.8	0.8	1.0	1.0	0.6



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.0	1.0	1.0	0.8	0.7	0.9	0.8	0.7	1.0	1.0	0.9
158°	1.0	1.0	1.0	0.8	0.7	0.9	0.8	0.7	1.1	1.0	0.9
158.5°	1.0	1.0	0.8	0.8	0.7	0.8	0.8	0.7	0.9	1.0	0.9
159°	1.0	1.0	0.8	0.8	0.7	0.9	0.8	0.7	0.7	1.0	0.9
159.5°	0.9	1.1	0.9	0.8	0.7	1.0	0.8	0.8	0.8	1.0	1.0
160°	0.9	1.0	0.9	0.9	0.7	1.0	1.0	0.8	0.9	1.0	0.8
160.5°	0.9	1.0	0.9	1.0	0.7	0.9	1.0	0.8	1.2	1.0	0.8
161°	0.9	1.0	0.9	0.9	0.7	0.9	1.0	1.0	0.7	1.0	0.8
161.5°	0.9	1.0	0.9	0.9	0.7	0.9	1.0	0.9	0.7	1.0	0.7
162°	0.9	1.0	1.0	1.0	0.7	0.7	1.0	0.9	0.8	1.0	0.7
162.5°	1.0	1.0	1.0	1.0	0.7	0.7	1.0	0.8	0.8	1.0	0.7
163°	1.0	1.0	0.8	1.0	0.7	0.7	1.0	0.8	0.9	1.1	1.1
163.5°	1.0	1.0	0.8	1.0	0.7	0.7	1.0	0.7	0.8	1.2	1.0
164°	1.0	0.9	1.0	1.0	0.7	0.8	1.0	0.8	1.1	0.8	1.0
164.5°	1.0	0.9	1.0	1.0	0.7	1.0	1.0	1.0	0.8	0.9	1.0
165°	1.0	0.9	1.1	1.0	0.7	0.9	1.0	1.0	0.9	0.8	1.0
165.5°	1.0	0.9	1.1	1.0	0.7	1.0	1.0	1.0	0.9	0.7	1.0
166°	1.0	1.0	1.0	1.0	0.7	1.1	1.0	1.1	0.9	0.7	1.0
166.5°	1.0	0.9	1.0	1.0	0.8	1.1	1.0	1.0	0.9	0.6	1.0
167°	1.0	1.0	1.0	1.0	0.9	1.1	1.0	1.0	0.9	1.0	1.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	1.1	1.1
168°	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.0	1.3	1.0
168.5°	1.3	1.0	1.0	1.0	1.0	1.2	1.1	1.0	1.0	1.0	1.1
169°	1.2	1.1	1.0	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.0
169.5°	1.2	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.8	0.9	1.0
170°	1.2	1.4	1.1	1.0	1.0	1.1	1.1	1.0	1.0	0.9	1.0
170.5°	1.2	1.2	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0
171°	1.2	1.3	1.0	1.0	1.1	1.1	1.1	1.0	1.0	0.9	1.0
171.5°	1.2	1.2	1.0	1.0	1.0	1.1	1.1	1.0	1.1	0.9	1.0
172°	1.2	1.2	1.1	1.0	1.0	1.1	1.2	1.0	1.1	1.2	1.2
172.5°	1.2	1.3	1.1	1.0	1.0	1.1	1.2	1.0	1.0	1.2	1.1
173°	1.2	1.3	1.2	1.0	0.9	1.1	1.0	1.0	1.0	0.8	1.0
173.5°	1.2	1.2	0.8	1.0	0.9	1.1	1.0	1.0	1.0	0.8	1.1
174°	1.2	1.2	1.0	1.0	1.0	1.1	1.0	1.1	1.0	1.0	1.1
174.5°	1.2	1.2	1.0	1.0	0.9	1.1	1.0	1.1	1.0	1.0	1.1
175°	1.1	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.0	1.0	1.1
175.5°	0.9	1.2	0.9	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.1
176°	1.0	1.2	0.9	1.0	0.8	1.1	1.0	1.0	1.0	1.0	1.1
176.5°	1.0	1.2	0.9	1.0	0.9	1.1	1.2	1.0	1.0	1.0	1.1
177°	1.0	1.1	0.9	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.1
177.5°	1.0	1.1	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
178°	1.0	1.1	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
178.5°	1.0	1.1	0.9	1.0	0.8	1.0	1.1	1.0	1.0	1.0	1.1
179°	1.0	1.0	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.1
179.5°	1.0	1.0	0.9	1.1	1.0	1.0	1.2	0.9	1.0	1.0	1.0



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	228.4	228.4	228.4	228.4	228.4	228.4
0.5°	227.6	228.4	228.2	228.2	227.9	227.8
1°	227.6	228.4	228.2	228.2	227.9	227.8
1.5°	227.6	228.4	228.2	228.2	227.9	227.8
2°	227.6	228.4	228.2	228.2	227.9	227.8
2.5°	227.6	228.4	228.2	228.2	227.9	228.0
3°	227.6	228.4	228.2	228.3	228.0	228.2
3.5°	227.6	228.4	228.2	228.4	228.0	228.4
4°	227.6	228.4	228.2	228.4	228.2	228.4
4.5°	227.6	228.4	228.2	228.4	228.3	228.4
5°	227.6	228.4	228.2	228.4	228.3	228.6
5.5°	227.6	228.4	228.2	228.5	228.4	228.7
6°	227.6	228.4	228.2	228.6	228.5	228.7
6.5°	227.6	228.4	228.2	228.6	228.5	228.8
7°	227.6	228.4	228.2	228.5	228.5	228.9
7.5°	227.6	228.4	228.2	228.5	228.7	228.9
8°	227.6	228.4	228.4	228.6	228.7	228.9
8.5°	227.6	228.4	228.4	228.6	228.8	229.0
9°	227.6	228.4	228.4	228.6	228.9	228.9
9.5°	227.6	228.4	228.5	228.7	229.1	229.1
10°	227.6	228.4	228.4	228.7	229.2	229.3
10.5°	227.6	228.4	228.4	228.8	229.1	229.5
11°	227.4	228.5	228.4	228.8	229.3	229.5
11.5°	227.3	228.5	228.4	228.9	229.4	229.6
12°	227.3	228.4	228.4	229.0	229.4	229.7
12.5°	227.3	228.4	228.4	229.1	229.5	229.7
13°	227.2	228.4	228.4	229.1	229.6	229.8
13.5°	227.1	228.4	228.5	229.4	229.6	229.9
14°	227.1	228.4	228.5	229.3	229.6	230.0
14.5°	227.1	228.4	228.6	229.5	229.6	230.0
15°	227.0	228.5	228.6	229.6	229.7	230.0
15.5°	226.9	228.5	228.6	229.6	229.8	230.0
16°	226.8	228.4	228.6	229.5	229.8	230.0
16.5°	226.7	228.3	228.6	229.6	229.8	230.0
17°	226.6	228.4	228.6	229.6	229.9	230.0
17.5°	226.6	228.1	228.6	229.6	229.9	230.0
18°	226.3	228.1	228.6	229.7	229.9	230.0
18.5°	226.1	227.9	228.6	229.7	229.8	230.0
19°	226.0	227.8	228.6	229.6	229.8	230.0
19.5°	225.8	227.6	228.7	229.6	229.8	230.0
20°	225.5	227.4	228.7	229.6	230.0	229.9
20.5°	225.2	227.1	228.5	229.6	230.0	229.8
21°	224.9	226.9	228.4	229.6	229.9	229.8
21.5°	224.7	226.6	228.0	229.5	229.9	229.5
22°	224.3	226.4	227.9	229.1	229.8	229.3



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	223.9	226.2	227.6	229.1	229.6	228.9
23°	223.5	225.8	227.4	228.9	229.3	228.7
23.5°	223.2	225.4	227.0	228.6	229.2	228.3
24°	222.6	225.0	226.8	228.4	229.0	228.1
24.5°	222.1	224.6	226.4	228.1	228.7	227.5
25°	221.7	224.1	226.1	227.8	228.3	227.1
25.5°	221.0	223.5	225.7	227.4	228.0	226.7
26°	220.5	222.9	225.3	227.0	227.6	226.3
26.5°	220.0	222.5	224.8	226.7	227.2	225.7
27°	219.2	222.0	224.2	226.3	226.8	225.2
27.5°	218.5	221.2	223.6	225.9	226.4	224.6
28°	217.8	220.5	222.9	225.3	225.9	224.0
28.5°	216.9	219.7	222.2	224.9	225.3	223.3
29°	216.2	219.0	221.6	224.3	224.7	222.7
29.5°	215.3	218.1	220.9	223.7	224.1	221.9
30°	214.5	217.3	220.3	223.1	223.5	221.1
30.5°	213.5	216.4	219.5	222.5	222.8	220.2
31°	212.4	215.4	218.7	221.7	222.0	219.3
31.5°	211.5	214.5	217.8	220.9	221.2	218.3
32°	210.4	213.4	216.9	220.0	220.3	217.5
32.5°	209.4	212.5	216.0	219.3	219.5	216.3
33°	208.2	211.2	214.9	218.4	218.5	215.4
33.5°	207.2	210.1	214.0	217.4	217.5	214.2
34°	205.9	208.9	212.9	216.4	216.6	213.0
34.5°	204.6	207.7	211.7	215.3	215.5	212.0
35°	203.4	206.4	210.5	214.2	214.4	210.8
35.5°	202.2	205.1	209.3	213.2	213.2	209.4
36°	200.7	203.7	208.1	212.0	211.9	208.2
36.5°	199.2	202.3	206.8	210.7	210.8	206.8
37°	198.1	200.8	205.4	209.5	209.4	205.4
37.5°	196.4	199.4	203.9	208.2	208.1	203.9
38°	194.9	197.9	202.5	206.7	206.6	202.4
38.5°	193.5	196.4	201.0	205.3	205.2	201.0
39°	191.7	194.8	199.5	204.0	203.7	199.4
39.5°	190.1	193.2	198.0	202.5	202.2	197.9
40°	188.4	191.4	196.4	200.9	200.6	196.3
40.5°	186.9	189.8	194.8	199.2	199.0	194.6
41°	185.1	188.0	193.2	197.6	197.5	192.9
41.5°	183.2	186.2	191.3	195.8	195.7	191.0
42°	181.4	184.3	189.5	194.2	194.1	189.1
42.5°	179.5	182.4	187.8	192.5	192.3	187.3
43°	177.6	180.6	186.0	190.7	190.3	185.5
43.5°	175.7	178.6	184.2	188.7	188.4	183.4
44°	173.8	176.8	182.3	186.8	186.5	181.4
44.5°	171.9	174.8	180.4	184.8	184.4	179.5



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	169.9	172.9	178.3	182.9	182.5	177.3
45.5°	167.9	170.8	176.2	180.9	180.5	175.4
46°	165.9	168.7	174.2	178.7	178.3	173.3
46.5°	163.9	166.7	172.0	176.6	176.3	171.1
47°	162.1	164.5	169.9	174.4	174.1	169.0
47.5°	159.8	162.6	167.7	172.2	171.9	166.8
48°	157.7	160.4	165.6	169.9	169.7	164.6
48.5°	155.5	158.2	163.6	167.7	167.5	162.7
49°	153.4	156.1	161.3	165.4	165.2	160.3
49.5°	151.2	153.9	159.0	163.2	163.1	158.1
50°	149.1	151.6	156.8	161.0	160.8	155.8
50.5°	146.8	149.4	154.6	158.7	158.3	153.5
51°	144.8	147.2	152.2	156.3	156.0	151.2
51.5°	142.4	145.0	150.0	153.9	153.7	148.8
52°	140.2	142.7	147.6	151.5	151.4	146.4
52.5°	138.1	140.3	145.5	149.0	149.0	144.1
53°	135.7	138.1	142.9	146.5	146.4	141.8
53.5°	133.4	136.0	140.6	144.1	144.0	139.4
54°	131.2	133.5	138.3	141.7	141.7	137.0
54.5°	128.8	131.4	135.9	139.1	139.2	134.6
55°	126.7	129.1	133.5	136.6	136.6	132.3
55.5°	124.4	126.7	131.1	134.0	134.2	129.9
56°	122.2	124.4	128.8	131.7	131.8	127.6
56.5°	119.8	122.2	126.4	129.3	129.3	125.3
57°	117.7	119.9	124.1	126.9	126.9	122.9
57.5°	115.4	117.5	121.6	124.3	124.5	120.5
58°	113.2	115.3	119.2	122.0	122.0	118.1
58.5°	110.9	113.0	116.9	119.5	119.5	115.8
59°	108.8	110.8	114.5	117.0	117.0	113.3
59.5°	106.6	108.4	112.1	114.7	114.7	111.1
60°	104.4	106.2	109.8	112.3	112.3	108.7
60.5°	102.1	103.8	107.3	109.8	109.9	106.4
61°	100.0	101.6	105.0	107.4	107.4	104.0
61.5°	97.7	99.3	102.7	105.1	105.0	101.9
62°	95.7	97.2	100.5	102.7	102.6	99.4
62.5°	93.5	94.9	98.1	100.4	100.3	97.2
63°	91.4	92.9	95.8	98.1	97.9	94.9
63.5°	89.4	90.7	93.8	95.7	95.5	92.8
64°	87.3	88.6	91.4	93.5	93.4	90.5
64.5°	85.2	86.4	89.2	91.3	91.1	88.3
65°	83.1	84.3	87.0	89.0	88.8	86.1
65.5°	81.0	82.1	84.7	86.7	86.5	83.9
66°	78.9	80.1	82.5	84.3	84.2	81.7
66.5°	76.8	77.8	80.3	82.1	82.0	79.5
67°	74.8	75.8	78.1	80.0	79.8	77.3



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	72.8	73.7	76.0	77.7	77.5	75.3
68°	70.8	71.7	73.8	75.5	75.3	73.2
68.5°	68.8	69.6	71.7	73.3	73.0	71.0
69°	66.8	67.5	69.6	71.1	71.0	68.9
69.5°	64.8	65.5	67.5	69.0	68.8	66.8
70°	62.8	63.6	65.5	66.8	66.7	64.9
70.5°	61.0	61.6	63.3	64.6	64.5	62.7
71°	59.0	59.6	61.3	62.6	62.6	60.7
71.5°	57.2	57.8	59.2	60.5	60.4	58.9
72°	55.4	55.8	57.3	58.6	58.6	57.1
72.5°	53.5	53.9	55.3	56.4	56.4	55.1
73°	51.7	51.9	53.5	54.3	54.4	53.1
73.5°	49.8	50.1	51.4	52.3	52.5	51.1
74°	48.0	48.3	49.6	50.3	50.4	49.2
74.5°	46.2	46.4	47.6	48.4	48.6	47.4
75°	44.5	44.6	45.8	46.4	46.6	45.6
75.5°	42.8	42.8	44.0	44.6	44.7	43.7
76°	41.0	41.1	42.2	42.7	42.8	41.9
76.5°	39.2	39.2	40.3	40.9	41.1	40.1
77°	37.5	37.5	38.5	39.0	39.2	38.4
77.5°	35.9	35.7	36.8	37.2	37.5	36.7
78°	34.2	34.1	35.1	35.4	35.6	35.1
78.5°	32.6	32.3	33.4	33.7	34.0	33.3
79°	31.0	30.7	31.6	32.0	32.3	31.6
79.5°	29.4	29.1	30.0	30.3	30.6	30.0
80°	27.7	27.5	28.2	28.7	28.9	28.3
80.5°	26.2	25.8	26.7	26.9	27.3	26.8
81°	24.7	24.4	25.0	25.4	25.7	25.2
81.5°	23.1	22.9	23.6	23.9	24.1	23.8
82°	21.8	21.4	22.1	22.3	22.6	22.3
82.5°	20.3	19.9	20.5	20.7	21.0	20.7
83°	18.9	18.4	19.0	19.2	19.5	19.3
83.5°	17.4	16.9	17.4	17.6	18.0	17.8
84°	16.0	15.4	15.9	16.1	16.5	16.3
84.5°	14.6	13.9	14.5	14.6	15.0	15.0
85°	13.2	12.5	12.9	13.1	13.6	13.5
85.5°	11.7	11.1	11.4	11.8	12.0	12.1
86°	10.4	9.7	10.0	10.3	10.6	10.7
86.5°	9.1	8.2	8.6	8.8	9.2	9.4
87°	7.5	6.9	7.1	7.3	7.8	8.1
87.5°	6.1	5.5	5.8	6.0	6.4	6.9
88°	4.9	3.9	4.3	4.6	5.0	5.6
88.5°	3.3	2.5	2.8	2.9	3.7	4.3
89°	2.0	1.7	1.7	1.8	2.5	3.1
89.5°	1.0	1.1	1.0	1.2	1.5	2.0



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.6	0.9	0.8	0.9	1.2	1.2
90.5°	0.4	0.7	0.7	0.7	0.9	0.9
91°	0.3	0.7	0.6	0.6	0.6	0.7
91.5°	0.3	0.7	0.6	0.5	0.6	0.6
92°	0.3	0.7	0.5	0.5	0.6	0.6
92.5°	0.3	0.6	0.5	0.5	0.5	0.5
93°	0.3	0.5	0.5	0.5	0.5	0.5
93.5°	0.3	0.5	0.5	0.5	0.4	0.5
94°	0.3	0.5	0.5	0.5	0.4	0.5
94.5°	0.3	0.5	0.5	0.4	0.4	0.4
95°	0.3	0.5	0.5	0.5	0.4	0.4
95.5°	0.3	0.5	0.5	0.4	0.4	0.4
96°	0.3	0.5	0.5	0.4	0.4	0.4
96.5°	0.3	0.5	0.5	0.4	0.4	0.4
97°	0.3	0.5	0.5	0.4	0.4	0.4
97.5°	0.3	0.5	0.5	0.4	0.4	0.4
98°	0.3	0.5	0.5	0.4	0.4	0.4
98.5°	0.3	0.5	0.5	0.4	0.4	0.4
99°	0.3	0.5	0.5	0.4	0.4	0.4
99.5°	0.3	0.5	0.5	0.4	0.4	0.4
100°	0.3	0.5	0.5	0.4	0.4	0.4
100.5°	0.3	0.5	0.5	0.4	0.4	0.4
101°	0.3	0.5	0.5	0.4	0.4	0.4
101.5°	0.3	0.5	0.5	0.4	0.4	0.4
102°	0.3	0.5	0.5	0.4	0.4	0.4
102.5°	0.3	0.5	0.5	0.4	0.4	0.4
103°	0.3	0.5	0.5	0.4	0.4	0.4
103.5°	0.3	0.5	0.5	0.4	0.4	0.4
104°	0.3	0.5	0.5	0.4	0.4	0.4
104.5°	0.3	0.5	0.5	0.4	0.4	0.4
105°	0.3	0.5	0.5	0.4	0.4	0.4
105.5°	0.3	0.5	0.5	0.4	0.4	0.4
106°	0.3	0.5	0.5	0.4	0.4	0.4
106.5°	0.3	0.5	0.5	0.4	0.4	0.4
107°	0.3	0.5	0.5	0.4	0.4	0.4
107.5°	0.3	0.5	0.5	0.4	0.4	0.4
108°	0.3	0.5	0.5	0.4	0.4	0.4
108.5°	0.3	0.5	0.5	0.4	0.4	0.4
109°	0.3	0.5	0.5	0.4	0.4	0.4
109.5°	0.3	0.5	0.5	0.4	0.4	0.4
110°	0.3	0.5	0.5	0.4	0.4	0.4
110.5°	0.3	0.5	0.5	0.4	0.4	0.4
111°	0.3	0.5	0.5	0.4	0.4	0.4
111.5°	0.3	0.5	0.5	0.4	0.4	0.4
112°	0.3	0.5	0.5	0.4	0.4	0.4



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.5	0.5	0.4	0.4	0.4
113°	0.3	0.5	0.5	0.5	0.4	0.4
113.5°	0.3	0.5	0.5	0.5	0.4	0.4
114°	0.3	0.5	0.5	0.5	0.4	0.4
114.5°	0.3	0.5	0.5	0.5	0.4	0.4
115°	0.3	0.5	0.5	0.6	0.4	0.4
115.5°	0.3	0.5	0.5	0.5	0.4	0.4
116°	0.3	0.5	0.5	0.5	0.4	0.4
116.5°	0.3	0.5	0.5	0.5	0.4	0.4
117°	0.3	0.5	0.5	0.5	0.4	0.4
117.5°	0.3	0.5	0.5	0.5	0.4	0.4
118°	0.3	0.5	0.5	0.5	0.4	0.4
118.5°	0.3	0.5	0.5	0.5	0.4	0.4
119°	0.3	0.5	0.5	0.5	0.4	0.4
119.5°	0.3	0.5	0.5	0.5	0.4	0.4
120°	0.3	0.5	0.5	0.5	0.4	0.4
120.5°	0.3	0.5	0.5	0.5	0.4	0.4
121°	0.3	0.5	0.5	0.5	0.4	0.4
121.5°	0.3	0.5	0.5	0.5	0.4	0.5
122°	0.3	0.5	0.5	0.5	0.4	0.5
122.5°	0.3	0.5	0.5	0.5	0.4	0.5
123°	0.3	0.5	0.5	0.5	0.4	0.5
123.5°	0.3	0.5	0.5	0.5	0.4	0.5
124°	0.3	0.5	0.5	0.5	0.4	0.5
124.5°	0.3	0.5	0.5	0.5	0.4	0.5
125°	0.3	0.5	0.5	0.5	0.4	0.5
125.5°	0.3	0.5	0.5	0.5	0.4	0.5
126°	0.3	0.5	0.5	0.5	0.4	0.5
126.5°	0.3	0.5	0.5	0.5	0.4	0.5
127°	0.3	0.5	0.5	0.5	0.4	0.5
127.5°	0.3	0.5	0.5	0.5	0.4	0.5
128°	0.3	0.5	0.5	0.5	0.4	0.5
128.5°	0.3	0.5	0.5	0.5	0.5	0.5
129°	0.3	0.5	0.5	0.5	0.4	0.5
129.5°	0.3	0.5	0.5	0.5	0.5	0.5
130°	0.3	0.5	0.5	0.5	0.5	0.5
130.5°	0.3	0.5	0.5	0.5	0.5	0.5
131°	0.3	0.5	0.5	0.5	0.6	0.5
131.5°	0.4	0.5	0.5	0.5	0.6	0.5
132°	0.4	0.5	0.7	0.5	0.6	0.5
132.5°	0.7	0.5	0.7	0.5	0.6	0.5
133°	0.7	0.5	0.6	0.5	0.8	0.6
133.5°	0.6	0.5	0.6	0.6	0.8	0.7
134°	0.5	0.5	0.6	0.6	0.7	0.7
134.5°	0.7	0.5	0.6	0.6	0.7	0.6



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.7	0.5	0.6	0.7	0.7	0.7
135.5°	0.6	0.5	0.7	0.6	0.7	0.7
136°	0.6	0.5	0.7	0.7	0.7	0.7
136.5°	0.6	0.5	0.7	0.7	0.8	0.7
137°	0.5	0.5	0.8	0.8	0.8	0.8
137.5°	0.5	0.5	0.8	0.8	0.9	0.8
138°	0.5	0.5	0.8	0.8	0.9	0.8
138.5°	0.5	0.5	0.7	0.7	0.9	0.8
139°	0.5	0.5	0.7	0.7	0.9	0.8
139.5°	0.5	0.5	0.7	0.7	0.9	0.8
140°	0.5	0.5	0.7	0.7	0.9	0.8
140.5°	0.5	0.5	0.7	0.7	0.8	0.8
141°	0.6	0.5	0.7	0.7	0.8	0.7
141.5°	0.6	0.5	0.7	0.7	0.8	1.1
142°	0.5	0.5	0.7	0.7	0.7	1.0
142.5°	0.5	0.5	0.7	0.7	0.7	0.9
143°	0.7	0.5	0.7	0.7	0.8	1.0
143.5°	0.7	0.5	0.7	0.7	0.8	0.7
144°	0.5	0.5	0.7	0.7	0.8	0.8
144.5°	0.5	0.5	0.7	0.7	0.8	0.8
145°	0.5	0.5	0.7	0.7	0.8	0.8
145.5°	0.7	0.5	0.7	0.7	0.8	0.8
146°	0.7	0.5	0.7	0.8	0.8	0.8
146.5°	0.7	0.5	0.7	0.8	0.8	0.8
147°	0.8	0.5	0.7	0.8	0.8	0.9
147.5°	0.7	0.5	0.7	0.8	0.8	0.9
148°	0.6	0.5	0.8	0.9	0.8	0.8
148.5°	0.7	0.5	0.8	0.8	0.8	0.9
149°	0.6	0.5	0.8	0.8	0.8	0.8
149.5°	0.7	0.5	1.0	0.8	0.8	0.8
150°	0.6	0.6	1.0	0.8	0.9	1.2
150.5°	0.7	0.6	1.0	0.8	0.8	0.9
151°	0.7	0.8	1.0	0.8	0.8	0.9
151.5°	0.6	0.8	1.0	0.8	1.0	0.8
152°	0.6	0.8	1.0	0.8	0.9	0.8
152.5°	0.8	0.8	1.0	0.8	0.9	1.0
153°	0.6	0.8	1.0	0.8	1.2	1.0
153.5°	0.8	0.9	1.0	0.8	1.0	0.8
154°	0.7	0.8	1.0	0.8	1.0	0.7
154.5°	0.6	0.8	1.0	0.8	1.0	0.8
155°	1.0	0.8	1.0	0.8	1.0	0.9
155.5°	0.9	0.8	1.0	0.8	1.1	0.9
156°	0.7	0.8	1.0	0.9	1.0	0.9
156.5°	0.7	0.9	1.0	0.9	1.0	0.9
157°	0.7	1.0	1.0	0.9	1.0	1.0



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.7	0.9	1.0	0.9	1.0	1.0
158°	0.6	0.9	1.0	0.9	1.0	1.0
158.5°	0.8	0.9	1.0	1.0	1.0	1.0
159°	0.8	0.9	1.0	1.0	1.0	1.0
159.5°	0.7	0.9	1.0	1.0	1.0	0.9
160°	0.6	0.9	1.0	1.0	1.0	0.9
160.5°	0.7	0.9	1.0	1.0	1.0	0.9
161°	0.8	0.9	1.0	1.0	1.0	0.9
161.5°	0.8	0.9	1.0	1.0	1.0	0.9
162°	0.8	0.9	1.0	1.0	1.0	0.9
162.5°	0.9	0.9	1.0	1.0	1.0	1.0
163°	0.9	0.9	1.0	1.0	1.0	1.0
163.5°	0.9	0.9	1.0	1.0	1.0	1.0
164°	0.8	0.9	1.0	1.0	1.1	1.0
164.5°	1.0	0.9	1.0	1.0	1.1	1.0
165°	0.9	1.0	1.1	1.0	1.1	1.0
165.5°	0.8	1.0	1.1	1.0	1.1	1.0
166°	0.8	1.0	1.0	1.0	1.1	1.0
166.5°	1.0	1.0	1.0	1.0	1.1	1.0
167°	0.9	1.0	1.0	1.0	1.1	1.0
167.5°	0.9	1.0	1.0	1.0	1.2	1.0
168°	0.9	1.0	1.0	1.3	1.2	1.0
168.5°	0.9	1.0	1.0	1.3	1.1	1.3
169°	1.0	1.0	1.0	1.2	1.1	1.2
169.5°	0.9	1.0	1.0	1.2	1.1	1.2
170°	1.2	1.0	1.0	1.2	1.0	1.2
170.5°	1.1	1.0	1.0	1.0	1.0	1.2
171°	1.1	1.0	1.0	1.0	1.1	1.2
171.5°	1.0	1.0	1.0	1.0	1.0	1.2
172°	1.0	1.0	1.0	1.0	1.1	1.2
172.5°	1.0	1.0	1.0	1.0	1.1	1.2
173°	1.0	1.0	1.0	1.0	1.1	1.2
173.5°	1.0	1.0	1.0	1.0	1.1	1.2
174°	0.9	1.0	1.0	1.0	1.1	1.2
174.5°	0.9	1.0	1.1	1.0	1.1	1.2
175°	1.0	1.0	1.1	1.0	1.1	1.1
175.5°	0.9	1.0	1.0	1.0	1.1	0.9
176°	1.0	1.0	1.2	1.0	1.1	1.0
176.5°	1.0	1.0	1.1	1.0	1.1	1.0
177°	1.0	1.0	1.1	1.1	1.1	1.0
177.5°	1.0	1.0	1.4	1.0	1.1	1.0
178°	1.2	1.0	1.2	1.0	1.1	1.0
178.5°	1.2	1.0	1.2	0.9	1.1	1.0
179°	1.0	1.0	1.2	0.9	1.0	1.0
179.5°	1.0	1.0	1.1	0.9	1.0	1.0



TEST NUMBER: P473754

CATALOG NUMBER: HLB4069BLE40AWH-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.0	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)