

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: P473752

Luminaire Tested: **HLB4069BLE40AWH-3000K**

Issue Date: 2/2/2021



Test Information

Test Method: LM-79-08
Report Number: P473752
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-3000K
Description: 4in HALO HOME BLADE
Light Source: -
Ballast/Driver: -

Summary

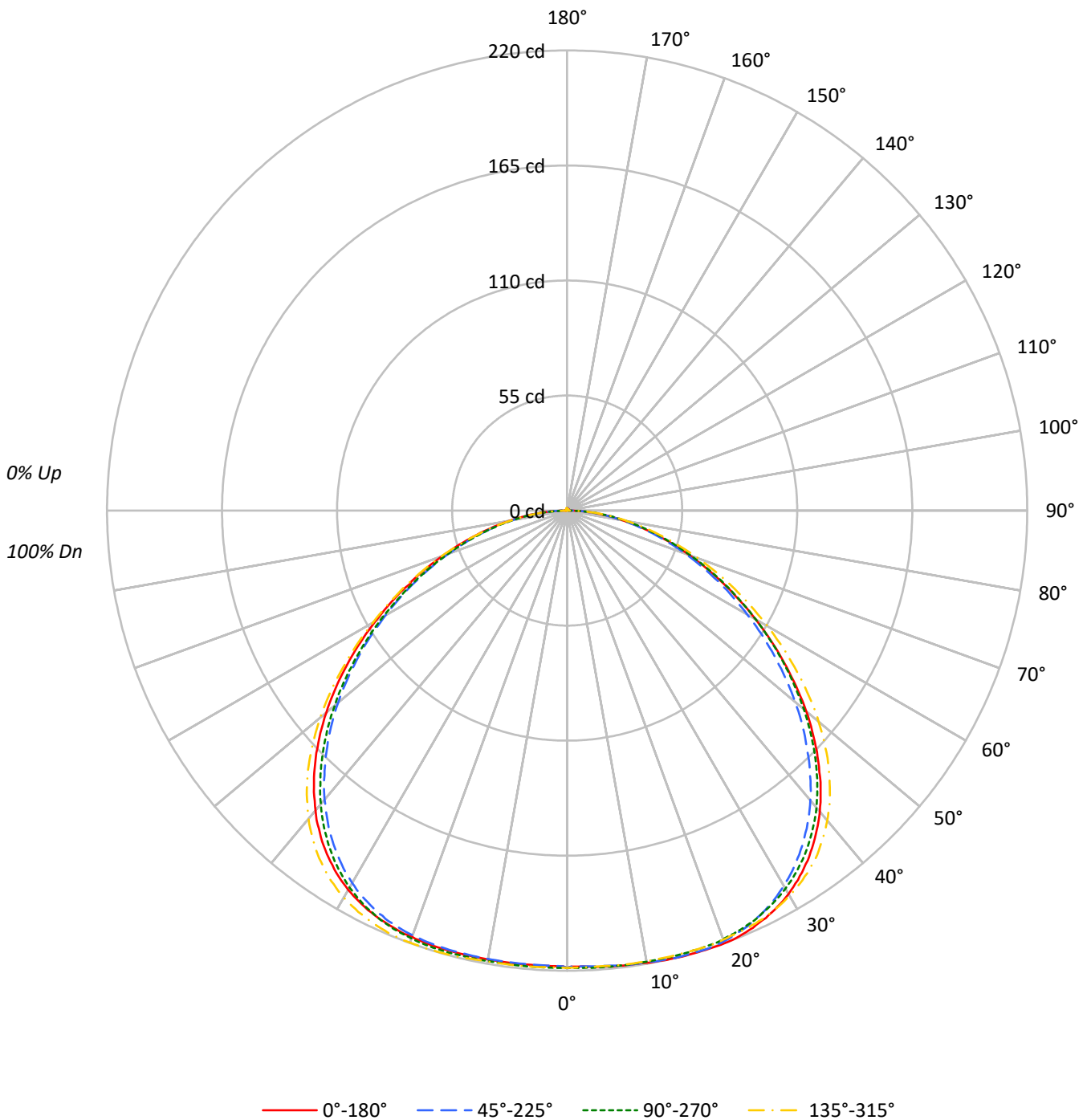
Lumens per Lamp: N/A
Luminaire Lumens: 697.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.4 / 1.47
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

Input Watts (W): 9.7
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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CATALOG NUMBER: HLB4069BLE40AWH-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2496	2496	2496	2496
5°	2507	2508	2496	2506
10°	2544	2538	2525	2535
15°	2602	2588	2575	2585
20°	2673	2648	2634	2644
25°	2738	2706	2703	2701
30°	2790	2752	2758	2743
35°	2812	2773	2791	2753
40°	2800	2762	2789	2730
45°	2741	2710	2750	2671
50°	2649	2623	2671	2576
55°	2521	2507	2555	2459
60°	2374	2379	2417	2321
65°	2228	2242	2242	2179
70°	2072	2102	2119	2032
75°	1923	1976	1967	1883
80°	1781	1873	1827	1729
85°	1689	1873	1768	1571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	3.0
10°-20°	62.0	8.9
20°-30°	99.4	14.3
30°-40°	124.9	17.9
40°-50°	130.0	18.7
50°-60°	113.1	16.2
60°-70°	82.1	11.8
70°-80°	46.8	6.7
80°-90°	14.7	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°	182.2	26.1
0°-40°	307.1	44.1
0°-60°	550.2	78.9
0°-90°	693.7	99.5
90°-120°	1.3	0.2
90°-150°	2.6	0.4
90°-180°	3.0	0.4
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	219	219	219	219	219	
5°	219	219	218	219	219	21
15°	220	219	218	219	220	62
25°	217	215	215	214	217	100
35°	202	199	200	198	202	126
45°	170	168	170	166	170	131
55°	127	126	128	124	127	113
65°	82	83	83	81	82	82
75°	44	45	45	43	44	46
85°	13	14	14	12	13	13
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°	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7
0.5°	218.1	218.0	218.0	217.9	218.7	218.5	218.5	218.2	217.9	218.0	217.9
1°	218.1	218.0	218.0	217.9	218.7	218.5	218.5	218.2	217.9	218.0	217.8
1.5°	218.1	218.0	218.0	217.9	218.7	218.7	218.5	218.2	217.9	218.0	217.7
2°	218.1	218.0	218.0	218.0	218.8	218.6	218.5	218.2	217.9	218.0	217.7
2.5°	218.3	218.1	218.1	218.1	218.7	218.6	218.5	218.2	217.9	218.0	217.7
3°	218.5	218.2	218.2	218.1	218.9	218.6	218.5	218.2	217.9	218.0	217.7
3.5°	218.6	218.3	218.3	218.1	218.9	218.6	218.5	218.2	217.9	218.0	217.7
4°	218.7	218.4	218.3	218.2	218.9	218.7	218.5	218.2	217.9	218.0	217.7
4.5°	218.7	218.4	218.4	218.3	218.9	218.9	218.5	218.2	217.9	218.0	217.7
5°	218.8	218.7	218.5	218.3	218.9	218.9	218.5	218.2	217.9	218.0	217.7
5.5°	219.0	219.0	218.5	218.5	219.0	218.9	218.7	218.2	217.9	218.0	217.7
6°	219.0	219.0	218.8	218.6	219.0	218.9	218.7	218.2	217.9	218.0	217.7
6.5°	219.0	219.0	219.0	218.7	219.0	219.0	218.7	218.2	217.9	218.0	217.7
7°	219.2	219.0	219.2	218.8	219.0	218.9	218.7	218.2	217.9	218.0	217.7
7.5°	219.2	219.1	219.2	218.9	219.0	218.9	218.8	218.2	217.9	218.0	217.7
8°	219.2	219.1	219.2	219.2	219.0	218.9	218.8	218.2	217.9	218.0	217.7
8.5°	219.2	219.2	219.2	219.2	219.0	218.9	218.8	218.2	217.9	218.0	217.7
9°	219.2	219.4	219.2	219.2	219.0	218.9	218.8	218.2	217.9	218.0	217.7
9.5°	219.3	219.4	219.2	219.2	219.0	218.9	218.8	218.2	217.9	217.9	217.7
10°	219.5	219.4	219.4	219.4	219.0	218.9	218.8	218.2	217.9	217.9	217.7
10.5°	219.7	219.8	219.4	219.4	219.0	218.9	218.8	218.2	217.9	217.9	217.7
11°	219.8	220.0	219.6	219.4	219.0	218.9	218.8	218.2	217.9	217.9	217.7
11.5°	219.8	220.0	219.7	219.4	219.0	218.9	218.8	218.2	217.9	217.9	217.6
12°	219.9	220.0	219.6	219.4	219.0	218.9	218.8	218.2	217.9	217.9	217.6
12.5°	220.0	220.0	219.8	219.5	219.0	218.9	218.8	218.2	217.9	217.9	217.6
13°	220.0	220.0	219.8	219.6	219.1	218.9	218.8	218.2	217.9	217.9	217.5
13.5°	220.1	220.0	220.0	219.6	219.0	218.9	218.8	218.2	217.9	217.8	217.5
14°	220.2	220.0	220.0	219.5	219.0	218.9	218.8	218.2	217.9	217.8	217.5
14.5°	220.2	220.0	220.0	219.5	219.0	218.9	218.8	218.2	217.9	217.5	217.5
15°	220.2	220.0	220.0	219.5	219.0	218.9	218.8	218.2	217.9	217.6	217.4
15.5°	220.2	220.0	220.0	219.5	219.0	218.9	218.8	218.2	217.8	217.5	217.3
16°	220.2	220.1	220.0	219.5	218.8	218.9	218.8	218.2	217.8	217.4	217.2
16.5°	220.2	220.1	220.0	219.5	218.9	218.9	218.8	218.2	217.8	217.3	217.2
17°	220.2	220.2	220.0	219.5	218.9	218.9	218.8	218.1	217.7	217.2	217.1
17.5°	220.2	220.2	220.0	219.6	218.7	218.8	218.8	218.0	217.7	217.1	216.9
18°	220.2	220.2	219.9	219.6	218.6	218.8	218.8	217.8	217.6	217.0	216.9
18.5°	220.2	220.2	219.7	219.4	218.6	218.8	218.8	217.7	217.5	216.9	216.7
19°	220.2	219.9	219.6	219.2	218.6	218.7	218.5	217.7	217.2	216.9	216.5
19.5°	220.2	219.7	219.4	219.1	218.4	218.7	218.5	217.7	217.2	216.8	216.3
20°	220.1	219.5	219.1	218.9	218.0	218.8	218.3	217.6	216.9	216.6	216.1
20.5°	220.0	219.4	218.9	218.7	217.8	218.5	218.2	217.4	216.8	216.2	215.8
21°	220.0	219.1	218.6	218.4	217.5	218.1	217.9	217.2	216.8	216.0	215.6
21.5°	219.8	218.9	218.1	218.0	217.5	217.9	217.8	217.1	216.6	215.8	215.3
22°	219.5	218.5	217.7	217.6	217.0	217.7	217.7	217.0	216.4	215.6	215.0



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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°	219.2	218.1	217.4	217.4	216.8	217.5	217.6	217.0	216.0	215.2	214.8
23°	219.0	217.8	217.0	216.9	216.4	217.3	217.5	216.7	215.8	214.8	214.3
23.5°	218.6	217.4	216.6	216.4	216.0	217.1	217.5	216.6	215.5	214.5	214.1
24°	218.4	216.9	216.0	216.0	215.7	216.9	217.0	216.5	215.2	214.0	213.6
24.5°	217.8	216.4	215.5	215.6	215.4	216.6	217.0	215.9	215.0	213.7	212.9
25°	217.4	215.9	214.8	215.1	214.9	216.3	216.6	215.7	214.6	213.1	212.6
25.5°	217.0	215.4	214.4	214.5	214.3	215.8	216.5	215.5	214.2	212.6	212.0
26°	216.7	214.7	213.7	214.0	213.7	215.6	216.2	215.5	213.7	212.3	211.4
26.5°	216.1	214.2	213.0	213.1	213.3	215.2	215.8	214.8	213.4	211.6	210.8
27°	215.6	213.6	212.2	212.4	212.7	214.6	215.4	214.4	212.8	211.1	210.1
27.5°	215.1	212.9	211.5	211.9	212.1	214.3	215.0	214.4	212.3	210.4	209.5
28°	214.4	212.1	210.7	211.0	211.5	213.7	214.6	213.5	211.7	209.7	208.8
28.5°	213.8	211.3	209.9	210.2	210.9	213.1	214.2	213.2	211.2	209.0	208.0
29°	213.2	210.5	209.0	209.4	210.2	212.6	213.7	212.6	210.6	208.3	207.4
29.5°	212.4	209.6	208.1	208.5	209.4	212.0	213.1	212.2	210.0	207.7	206.4
30°	211.7	208.7	207.2	207.6	208.8	211.4	212.5	211.6	209.3	206.9	205.6
30.5°	210.8	207.9	206.2	206.6	207.9	210.7	212.1	210.9	208.5	206.1	204.6
31°	209.9	207.0	205.2	205.7	207.1	210.0	211.3	210.4	207.8	205.2	203.7
31.5°	209.0	205.9	204.1	204.7	206.3	209.2	210.7	209.7	207.1	204.2	202.8
32°	208.3	204.9	203.1	203.6	205.3	208.4	210.2	209.0	206.2	203.3	201.7
32.5°	207.1	203.8	201.9	202.6	204.4	207.5	209.5	208.2	205.3	202.4	200.6
33°	206.2	202.7	200.8	201.4	203.3	206.7	208.6	207.3	204.4	201.4	199.5
33.5°	205.1	201.4	199.5	200.2	202.3	205.8	208.0	206.5	203.3	200.4	198.3
34°	203.9	200.3	198.4	198.9	201.3	204.8	207.0	205.6	202.4	199.3	197.2
34.5°	203.0	199.0	197.0	197.6	200.2	203.8	206.1	204.8	201.4	198.2	196.0
35°	201.8	197.7	195.8	196.3	199.0	202.8	205.3	203.8	200.3	196.9	194.8
35.5°	200.5	196.5	194.5	195.0	197.8	201.9	204.4	202.8	199.1	195.8	193.4
36°	199.3	195.0	193.1	193.8	196.6	200.8	203.4	201.8	198.1	194.5	192.2
36.5°	198.0	193.6	191.6	192.4	195.3	199.7	202.2	200.7	196.9	193.1	190.9
37°	196.6	192.2	190.4	190.9	194.0	198.3	201.0	199.6	195.6	191.6	189.6
37.5°	195.2	190.8	188.8	189.5	192.6	197.2	199.8	198.3	194.2	190.4	188.0
38°	193.8	189.3	187.2	188.0	191.3	195.8	198.7	197.1	192.9	189.2	186.4
38.5°	192.4	187.8	185.8	186.5	189.9	194.5	197.4	195.8	191.6	187.6	184.9
39°	190.9	186.3	184.2	184.9	188.4	193.3	196.2	194.4	190.3	186.1	183.5
39.5°	189.5	184.8	182.6	183.3	187.0	191.9	194.8	193.0	188.8	184.4	181.9
40°	187.9	183.1	180.9	181.7	185.4	190.4	193.4	191.5	187.2	183.0	180.4
40.5°	186.3	181.4	179.2	180.0	183.8	188.9	192.1	190.1	185.7	181.5	178.8
41°	184.7	179.7	177.6	178.3	182.1	187.4	190.5	188.7	184.0	179.8	177.2
41.5°	182.8	178.0	175.6	176.7	180.5	185.9	189.3	187.2	182.5	178.1	175.4
42°	181.1	176.1	173.9	174.7	178.7	184.2	187.6	185.8	181.0	176.4	173.7
42.5°	179.3	174.4	172.0	173.0	177.0	182.5	186.0	183.9	179.2	174.7	171.8
43°	177.6	172.5	170.2	171.2	175.3	181.0	184.2	182.3	177.5	173.0	170.1
43.5°	175.6	170.6	168.3	169.4	173.4	179.3	182.5	180.7	175.8	171.2	168.2
44°	173.6	168.6	166.4	167.4	171.7	177.5	180.7	179.0	174.1	169.4	166.5
44.5°	171.8	166.7	164.4	165.5	169.7	175.5	179.0	177.3	172.2	167.5	164.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	169.8	164.9	162.4	163.6	167.9	173.7	177.1	175.4	170.4	165.6	162.7
45.5°	167.9	162.8	160.5	161.7	166.0	171.6	175.3	173.5	168.5	163.6	160.8
46°	166.0	160.9	158.6	159.7	164.0	169.8	173.4	171.5	166.7	161.7	159.0
46.5°	163.8	158.7	156.7	157.7	162.0	167.9	171.6	169.6	164.5	159.9	157.0
47°	161.8	156.9	154.7	155.7	160.0	165.8	169.5	167.5	162.6	157.8	155.1
47.5°	159.7	154.9	152.6	153.8	158.0	163.8	167.4	165.5	160.7	155.9	153.2
48°	157.6	152.8	150.6	151.7	156.0	161.7	165.4	163.6	158.7	154.0	151.2
48.5°	155.7	150.6	148.6	149.7	154.0	159.7	163.4	161.6	156.5	152.0	149.1
49°	153.5	148.6	146.5	147.6	152.0	157.5	161.2	159.5	154.6	149.9	147.2
49.5°	151.4	146.4	144.4	145.5	149.9	155.7	159.1	157.4	152.5	147.7	145.1
50°	149.2	144.3	142.3	143.4	147.7	153.6	156.9	155.3	150.4	145.6	143.0
50.5°	147.0	142.1	140.2	141.2	145.5	151.3	154.9	153.3	148.2	143.6	141.0
51°	144.8	140.0	138.0	139.2	143.4	149.2	152.7	151.1	146.1	141.5	138.8
51.5°	142.4	137.8	135.8	137.0	141.2	147.1	150.5	149.0	144.0	139.3	136.8
52°	140.2	135.6	133.8	134.9	139.0	144.8	148.2	146.7	141.8	137.1	134.6
52.5°	138.0	133.3	131.6	132.5	136.8	142.5	145.8	144.5	139.6	134.9	132.5
53°	135.7	131.1	129.5	130.4	134.7	140.2	143.4	142.2	137.4	132.7	130.3
53.5°	133.4	128.9	127.3	128.3	132.5	138.0	141.2	139.9	135.1	130.5	128.2
54°	131.1	126.6	125.1	126.1	130.3	135.8	138.8	137.6	132.9	128.3	126.0
54.5°	128.9	124.4	123.2	124.0	128.1	133.6	136.6	135.3	130.6	126.1	123.9
55°	126.7	122.3	120.9	121.9	126.0	131.3	134.2	132.9	128.4	123.8	121.9
55.5°	124.4	120.1	118.8	119.7	123.7	128.9	131.8	130.6	126.1	121.6	119.6
56°	122.1	117.9	116.6	117.5	121.6	126.6	129.5	128.3	123.9	119.4	117.5
56.5°	120.0	115.7	114.4	115.3	119.5	124.3	127.1	125.9	121.7	117.3	115.4
57°	117.7	113.6	112.3	113.2	117.3	122.2	124.8	123.6	119.4	115.1	113.1
57.5°	115.3	111.3	110.3	110.9	115.0	119.8	122.4	121.3	117.2	112.9	111.0
58°	113.0	109.1	108.0	108.9	112.8	117.6	120.1	119.0	114.9	110.8	108.9
58.5°	110.9	106.9	105.9	106.6	110.7	115.3	117.7	116.8	112.7	108.5	106.7
59°	108.5	104.7	103.8	104.6	108.6	113.1	115.4	114.5	110.3	106.4	104.6
59.5°	106.3	102.6	101.6	102.5	106.4	110.7	113.1	112.1	108.1	104.3	102.4
60°	104.0	100.5	99.5	100.3	104.2	108.5	110.7	109.8	105.9	102.2	100.3
60.5°	101.9	98.3	97.4	98.1	102.0	106.2	108.4	107.5	103.7	100.0	98.2
61°	99.6	96.2	95.3	96.1	99.9	103.8	106.0	105.2	101.5	97.9	96.1
61.5°	97.6	94.0	93.2	94.1	97.7	101.8	103.7	102.9	99.3	95.7	94.0
62°	95.2	92.0	91.2	92.0	95.5	99.4	101.5	100.7	97.0	93.6	92.0
62.5°	93.0	90.0	89.3	90.0	93.4	97.2	99.1	98.3	94.8	91.4	89.9
63°	90.8	88.0	87.2	88.1	91.3	95.0	97.0	96.0	92.6	89.4	88.0
63.5°	88.8	85.9	85.4	86.0	89.1	92.8	94.6	93.8	90.5	87.5	85.9
64°	86.7	83.9	83.2	84.0	87.2	90.5	92.5	91.7	88.5	85.5	83.9
64.5°	84.5	81.9	81.3	82.0	85.2	88.6	90.2	89.3	86.0	83.4	81.9
65°	82.5	79.9	79.2	79.9	83.0	86.4	88.2	87.3	83.0	81.0	79.8
65.5°	80.3	77.8	77.2	77.9	81.0	84.4	86.1	85.0	81.9	78.7	77.8
66°	78.2	75.9	75.2	76.0	78.9	82.1	83.8	82.7	79.8	77.2	75.9
66.5°	76.1	73.8	73.3	74.2	76.8	79.9	81.6	80.5	77.7	75.2	73.9
67°	74.0	71.9	71.4	72.1	74.8	77.8	79.5	78.5	75.6	73.2	72.0



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	72.1	70.0	69.4	70.3	72.8	75.8	77.3	76.3	73.6	71.2	69.9
68°	70.1	68.0	67.5	68.3	70.8	73.6	75.1	74.1	71.5	69.2	68.0
68.5°	68.0	66.1	65.7	66.4	68.8	71.5	73.0	72.0	69.5	67.3	66.0
69°	66.0	64.2	63.7	64.6	66.9	69.4	70.9	69.9	67.4	65.4	64.2
69.5°	64.0	62.3	61.8	62.6	64.9	67.5	68.7	67.9	65.4	63.4	62.3
70°	62.1	60.4	60.0	60.8	63.0	65.4	66.6	65.7	63.5	61.5	60.4
70.5°	60.1	58.5	58.2	58.9	61.1	63.4	64.6	63.7	61.5	59.6	58.5
71°	58.1	56.6	56.4	57.1	59.2	61.4	62.5	61.7	59.5	57.6	56.7
71.5°	56.4	54.9	54.6	55.3	57.3	59.5	60.4	59.6	57.5	55.8	55.0
72°	54.6	53.1	52.9	53.5	55.5	57.5	58.4	57.7	55.7	54.0	53.1
72.5°	52.7	51.2	51.0	51.8	53.7	55.6	56.4	55.7	54.0	52.2	51.3
73°	50.9	49.4	49.2	49.9	51.9	53.7	54.5	53.9	52.0	50.3	49.7
73.5°	48.9	47.7	47.5	48.1	50.0	51.9	52.6	51.8	50.1	48.7	47.8
74°	47.1	45.9	45.8	46.5	48.2	50.0	50.8	50.0	48.2	46.7	46.0
74.5°	45.4	44.3	44.0	44.7	46.6	48.1	48.8	48.1	46.4	44.9	44.4
75°	43.6	42.5	42.4	43.0	44.8	46.4	46.9	46.1	44.6	43.1	42.7
75.5°	41.9	40.9	40.7	41.3	43.1	44.6	45.0	44.4	42.9	41.5	41.0
76°	40.2	39.3	39.2	39.6	41.5	42.8	43.2	42.6	41.2	39.7	39.4
76.5°	38.4	37.5	37.5	37.9	39.7	41.0	41.3	40.7	39.4	38.2	37.6
77°	36.8	35.9	35.9	36.2	38.1	39.3	39.5	39.0	37.6	36.4	36.1
77.5°	35.1	34.3	34.3	34.7	36.4	37.5	37.9	37.2	36.0	34.9	34.5
78°	33.6	32.8	32.7	33.1	34.9	36.0	36.1	35.5	34.4	33.3	33.0
78.5°	31.9	31.1	31.2	31.5	33.2	34.2	34.3	33.9	32.7	31.7	31.3
79°	30.2	29.6	29.7	30.0	31.6	32.6	32.7	32.2	31.1	30.0	29.9
79.5°	28.7	28.1	28.1	28.3	30.0	31.1	31.0	30.6	29.4	28.5	28.3
80°	27.1	26.6	26.7	27.0	28.5	29.6	29.4	28.9	27.8	27.0	26.8
80.5°	25.6	25.2	25.2	25.5	26.9	27.8	27.8	27.4	26.3	25.5	25.4
81°	24.1	23.7	23.7	23.9	25.4	26.2	26.2	25.8	24.8	24.0	23.8
81.5°	22.8	22.4	22.5	22.6	23.9	24.6	24.6	24.2	23.2	22.6	22.3
82°	21.4	21.1	21.2	21.4	22.5	23.0	23.0	22.7	21.9	21.5	21.1
82.5°	19.9	19.7	19.7	19.8	21.2	21.8	21.8	21.3	20.5	20.0	19.7
83°	18.5	18.3	18.4	18.4	19.8	20.4	20.3	19.9	19.1	18.4	18.3
83.5°	17.0	16.9	17.0	17.1	18.4	18.9	18.6	18.4	17.7	17.0	16.9
84°	15.6	15.5	15.6	15.8	17.1	17.5	17.4	16.9	16.3	15.7	15.5
84.5°	14.3	14.2	14.3	14.4	15.7	16.2	15.7	15.4	14.9	14.4	14.1
85°	12.9	12.9	13.1	13.1	14.3	14.6	14.5	14.1	13.5	13.1	12.8
85.5°	11.6	11.6	11.7	11.8	13.0	13.3	13.1	12.7	12.2	11.7	11.4
86°	10.3	10.4	10.5	10.6	11.7	11.9	11.6	11.3	10.8	10.4	10.2
86.5°	9.0	9.1	9.2	9.4	10.4	10.6	10.3	10.0	9.4	9.1	8.9
87°	7.8	8.0	8.0	8.1	9.1	9.2	8.9	8.5	8.2	7.8	7.6
87.5°	6.6	6.8	6.9	7.0	7.9	8.0	7.6	7.2	6.9	6.4	6.2
88°	5.4	5.8	5.6	5.8	6.6	6.6	6.2	5.9	5.7	5.1	5.0
88.5°	4.1	4.5	4.6	4.6	5.4	5.2	4.9	4.9	4.4	3.9	3.7
89°	2.9	3.4	3.5	3.4	4.1	3.9	3.5	3.3	3.1	2.7	2.4
89.5°	1.9	2.2	2.5	2.4	2.9	2.8	2.3	2.1	1.8	1.4	1.2



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.1	1.4	1.6	1.7	1.7	1.6	1.4	1.2	0.9	0.6	0.6
90.5°	0.9	1.0	1.1	1.3	0.9	0.7	0.8	0.6	0.4	0.4	0.4
91°	0.7	0.8	0.9	0.7	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	0.5	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	0.3	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	0.3	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: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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	0.5	0.5	0.4
113.5°	0.4	0.4	0.4	0.3	0.3	0.3	0.5	0.5	0.8	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	0.3	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	0.5	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	0.5	0.5	0.5	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: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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	0.5	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	0.7	0.5	0.6	0.5	0.5	0.7	0.7	0.7	0.4
138°	0.8	0.7	0.7	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	0.7	0.5	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140°	0.8	0.7	0.7	0.5	0.6	0.5	0.4	0.7	0.7	0.7	0.5
140.5°	0.7	0.7	0.7	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.4
141°	0.7	0.8	0.7	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.6
141.5°	1.0	1.0	0.7	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.6
142°	1.0	0.8	0.7	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.5
142.5°	0.8	0.6	0.7	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.5
143°	0.9	0.7	0.7	0.5	0.7	0.5	0.7	0.7	0.8	0.7	0.5
143.5°	0.7	0.7	0.7	0.5	0.7	0.5	0.5	0.7	0.8	0.7	0.5
144°	0.8	0.7	0.7	0.5	0.7	0.5	0.5	0.7	0.5	0.7	0.5
144.5°	0.8	0.7	0.7	0.5	0.7	0.5	0.7	0.8	0.5	0.7	0.5
145°	0.8	0.8	0.7	0.5	0.7	0.5	0.7	0.8	0.3	0.7	0.5
145.5°	0.8	0.7	0.7	0.5	0.7	0.5	0.6	0.8	0.7	0.7	0.5
146°	0.8	0.8	0.7	0.6	0.7	0.5	0.8	0.9	0.8	0.7	0.5
146.5°	0.8	0.8	0.7	0.6	0.7	0.5	0.8	1.4	0.7	0.7	0.7
147°	0.8	0.8	0.7	0.7	0.7	0.5	0.7	0.5	0.7	0.7	0.7
147.5°	0.8	0.8	0.8	0.6	0.7	0.6	0.7	0.5	0.5	0.8	0.7
148°	0.8	0.8	0.8	0.6	0.7	0.6	0.8	0.5	0.5	0.8	0.7
148.5°	0.8	0.9	0.8	0.6	0.7	0.6	0.8	0.5	0.8	0.8	0.7
149°	0.7	0.9	0.8	0.6	0.8	0.6	0.8	0.5	0.5	0.8	0.8
149.5°	0.8	1.0	0.8	0.6	0.7	0.6	0.8	0.6	0.5	0.8	0.7
150°	1.1	0.9	0.8	0.6	0.7	0.6	0.8	0.6	0.5	0.8	0.7
150.5°	0.8	1.0	0.8	0.6	0.7	0.7	0.8	0.8	0.5	0.8	0.7
151°	0.8	0.9	0.8	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8
151.5°	0.8	1.0	0.8	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8
152°	0.8	0.9	0.9	0.7	0.7	0.7	0.7	0.9	0.8	0.8	0.8
152.5°	0.9	0.9	0.9	0.6	0.7	0.7	0.8	0.9	0.8	0.8	0.8
153°	0.9	0.9	0.9	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.7
153.5°	0.7	0.9	0.9	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7
154°	0.7	0.9	1.0	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.7
154.5°	0.8	1.0	0.9	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.7
155°	0.8	1.0	0.9	0.8	0.7	0.8	0.8	0.8	0.9	0.8	0.6
155.5°	0.8	1.2	0.9	0.8	0.7	0.8	0.8	0.8	0.9	0.9	0.6
156°	0.8	1.0	0.9	0.8	0.7	0.8	0.8	0.7	0.9	0.9	0.6
156.5°	0.8	0.9	0.9	0.8	0.7	0.8	0.8	0.7	1.0	0.9	0.6
157°	0.9	0.8	1.0	0.8	0.7	0.8	0.8	0.8	1.0	1.0	0.6



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	218.7	218.7	218.7	218.7	218.7	218.7
0.5°	217.9	218.7	218.5	218.5	218.2	218.1
1°	217.9	218.7	218.5	218.5	218.2	218.1
1.5°	217.9	218.7	218.5	218.5	218.2	218.1
2°	217.9	218.7	218.5	218.5	218.2	218.1
2.5°	217.9	218.7	218.5	218.5	218.2	218.3
3°	217.9	218.7	218.5	218.6	218.3	218.5
3.5°	217.9	218.7	218.5	218.7	218.3	218.6
4°	217.9	218.7	218.5	218.7	218.5	218.7
4.5°	217.9	218.7	218.5	218.7	218.6	218.7
5°	217.9	218.7	218.5	218.7	218.6	218.8
5.5°	217.9	218.7	218.5	218.8	218.7	219.0
6°	217.9	218.7	218.5	218.9	218.8	219.0
6.5°	217.9	218.7	218.5	218.9	218.8	219.0
7°	217.9	218.7	218.5	218.8	218.8	219.2
7.5°	217.9	218.7	218.5	218.8	218.9	219.2
8°	217.9	218.7	218.7	218.8	219.0	219.2
8.5°	217.9	218.7	218.7	218.9	219.1	219.2
9°	217.9	218.7	218.7	218.9	219.1	219.2
9.5°	217.9	218.7	218.8	219.0	219.3	219.3
10°	217.9	218.7	218.7	218.9	219.4	219.5
10.5°	217.9	218.7	218.7	219.0	219.3	219.7
11°	217.7	218.8	218.7	219.0	219.5	219.8
11.5°	217.7	218.8	218.7	219.1	219.7	219.8
12°	217.7	218.7	218.7	219.2	219.7	219.9
12.5°	217.7	218.7	218.7	219.3	219.7	220.0
13°	217.5	218.7	218.7	219.4	219.8	220.0
13.5°	217.5	218.7	218.8	219.6	219.8	220.1
14°	217.4	218.7	218.8	219.6	219.8	220.2
14.5°	217.4	218.7	218.9	219.7	219.8	220.2
15°	217.3	218.8	218.9	219.8	219.9	220.2
15.5°	217.2	218.8	218.9	219.8	220.0	220.2
16°	217.1	218.7	218.9	219.8	220.0	220.2
16.5°	217.1	218.6	218.9	219.8	220.0	220.2
17°	216.9	218.6	218.9	219.8	220.1	220.2
17.5°	216.9	218.4	218.9	219.8	220.1	220.2
18°	216.7	218.4	218.9	219.9	220.1	220.2
18.5°	216.5	218.2	218.9	219.9	220.1	220.2
19°	216.4	218.1	218.9	219.8	220.1	220.2
19.5°	216.2	217.9	218.9	219.8	220.1	220.2
20°	215.9	217.7	218.9	219.8	220.2	220.1
20.5°	215.6	217.4	218.8	219.8	220.2	220.0
21°	215.4	217.2	218.7	219.8	220.1	220.0
21.5°	215.1	217.0	218.3	219.7	220.1	219.8
22°	214.8	216.8	218.2	219.4	220.0	219.5



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	214.4	216.6	218.0	219.4	219.9	219.2
23°	214.0	216.2	217.7	219.2	219.6	219.0
23.5°	213.7	215.8	217.3	218.9	219.5	218.6
24°	213.1	215.4	217.2	218.7	219.2	218.4
24.5°	212.7	215.1	216.7	218.4	218.9	217.8
25°	212.2	214.5	216.4	218.1	218.6	217.4
25.5°	211.6	214.0	216.0	217.8	218.3	217.0
26°	211.1	213.4	215.7	217.4	217.9	216.7
26.5°	210.6	213.0	215.2	217.1	217.5	216.1
27°	209.8	212.5	214.6	216.6	217.1	215.6
27.5°	209.2	211.8	214.1	216.3	216.7	215.1
28°	208.6	211.1	213.4	215.7	216.2	214.4
28.5°	207.7	210.4	212.7	215.3	215.7	213.8
29°	207.0	209.6	212.1	214.7	215.1	213.2
29.5°	206.1	208.8	211.5	214.2	214.5	212.4
30°	205.4	208.1	210.9	213.6	214.0	211.7
30.5°	204.4	207.2	210.1	213.0	213.3	210.8
31°	203.4	206.2	209.4	212.3	212.5	209.9
31.5°	202.5	205.3	208.5	211.5	211.8	209.0
32°	201.4	204.3	207.6	210.6	210.9	208.3
32.5°	200.5	203.4	206.8	210.0	210.1	207.1
33°	199.4	202.2	205.8	209.1	209.2	206.2
33.5°	198.4	201.2	204.8	208.1	208.3	205.1
34°	197.1	200.0	203.8	207.2	207.4	203.9
34.5°	195.9	198.8	202.7	206.1	206.4	203.0
35°	194.7	197.6	201.5	205.1	205.2	201.8
35.5°	193.6	196.4	200.4	204.2	204.2	200.5
36°	192.2	195.0	199.2	203.0	202.9	199.3
36.5°	190.7	193.6	198.0	201.8	201.8	198.0
37°	189.6	192.3	196.7	200.6	200.5	196.6
37.5°	188.1	190.9	195.2	199.3	199.2	195.2
38°	186.6	189.5	193.9	197.9	197.8	193.8
38.5°	185.3	188.0	192.4	196.6	196.4	192.4
39°	183.5	186.5	191.1	195.3	195.1	190.9
39.5°	182.0	184.9	189.6	193.9	193.6	189.5
40°	180.3	183.2	188.1	192.3	192.0	187.9
40.5°	178.9	181.7	186.5	190.7	190.6	186.3
41°	177.2	180.0	185.0	189.2	189.1	184.7
41.5°	175.4	178.3	183.2	187.4	187.3	182.8
42°	173.6	176.4	181.4	185.9	185.8	181.1
42.5°	171.9	174.7	179.8	184.3	184.1	179.3
43°	170.0	172.9	178.1	182.5	182.2	177.6
43.5°	168.3	171.0	176.4	180.6	180.4	175.6
44°	166.4	169.3	174.6	178.8	178.5	173.6
44.5°	164.6	167.3	172.7	177.0	176.6	171.8



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	162.7	165.5	170.7	175.1	174.7	169.8
45.5°	160.8	163.5	168.7	173.2	172.8	167.9
46°	158.9	161.6	166.8	171.1	170.7	166.0
46.5°	156.9	159.6	164.7	169.1	168.8	163.8
47°	155.2	157.5	162.6	167.0	166.6	161.8
47.5°	153.0	155.7	160.5	164.9	164.5	159.7
48°	151.0	153.6	158.5	162.7	162.5	157.6
48.5°	148.9	151.5	156.6	160.6	160.4	155.7
49°	146.9	149.5	154.4	158.4	158.2	153.5
49.5°	144.8	147.3	152.2	156.3	156.2	151.4
50°	142.7	145.1	150.1	154.1	153.9	149.2
50.5°	140.6	143.0	148.0	151.9	151.6	147.0
51°	138.6	141.0	145.7	149.6	149.4	144.8
51.5°	136.4	138.8	143.6	147.3	147.1	142.4
52°	134.3	136.6	141.3	145.0	145.0	140.2
52.5°	132.2	134.4	139.3	142.7	142.6	138.0
53°	129.9	132.2	136.8	140.3	140.2	135.7
53.5°	127.7	130.2	134.6	138.0	137.9	133.4
54°	125.6	127.8	132.4	135.7	135.6	131.1
54.5°	123.4	125.8	130.1	133.1	133.3	128.9
55°	121.3	123.6	127.8	130.8	130.8	126.7
55.5°	119.1	121.3	125.5	128.3	128.5	124.4
56°	117.0	119.1	123.3	126.1	126.2	122.1
56.5°	114.7	117.0	121.0	123.8	123.8	120.0
57°	112.7	114.7	118.8	121.5	121.5	117.7
57.5°	110.5	112.5	116.4	119.0	119.2	115.3
58°	108.4	110.4	114.1	116.8	116.8	113.0
58.5°	106.2	108.2	111.9	114.4	114.4	110.9
59°	104.1	106.1	109.6	112.0	112.0	108.5
59.5°	102.0	103.8	107.4	109.8	109.8	106.3
60°	100.0	101.7	105.1	107.5	107.5	104.0
60.5°	97.7	99.4	102.7	105.1	105.2	101.9
61°	95.7	97.3	100.6	102.9	102.8	99.6
61.5°	93.6	95.1	98.3	100.6	100.5	97.6
62°	91.6	93.0	96.2	98.4	98.2	95.2
62.5°	89.5	90.8	93.9	96.1	96.0	93.0
63°	87.5	88.9	91.7	93.9	93.8	90.8
63.5°	85.6	86.8	89.8	91.6	91.4	88.8
64°	83.6	84.8	87.5	89.5	89.4	86.7
64.5°	81.5	82.7	85.4	87.4	87.2	84.5
65°	79.5	80.7	83.3	85.3	85.0	82.5
65.5°	77.5	78.6	81.1	83.0	82.8	80.3
66°	75.5	76.6	79.0	80.7	80.6	78.2
66.5°	73.5	74.5	76.9	78.6	78.5	76.1
67°	71.6	72.6	74.8	76.6	76.4	74.0



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	69.7	70.5	72.8	74.4	74.2	72.1
68°	67.8	68.6	70.7	72.3	72.1	70.1
68.5°	65.9	66.7	68.6	70.2	69.9	68.0
69°	64.0	64.7	66.7	68.1	68.0	66.0
69.5°	62.1	62.7	64.6	66.0	65.8	64.0
70°	60.1	60.9	62.7	64.0	63.8	62.1
70.5°	58.4	59.0	60.6	61.9	61.7	60.1
71°	56.5	57.0	58.7	59.9	59.9	58.1
71.5°	54.8	55.3	56.7	57.9	57.8	56.4
72°	53.0	53.4	54.9	56.1	56.1	54.6
72.5°	51.2	51.6	52.9	54.0	54.0	52.7
73°	49.5	49.7	51.2	52.0	52.0	50.9
73.5°	47.7	47.9	49.2	50.1	50.3	48.9
74°	45.9	46.2	47.5	48.2	48.3	47.1
74.5°	44.2	44.4	45.6	46.3	46.5	45.4
75°	42.6	42.7	43.9	44.4	44.6	43.6
75.5°	40.9	41.0	42.1	42.7	42.8	41.9
76°	39.2	39.3	40.4	40.9	41.0	40.2
76.5°	37.5	37.5	38.6	39.1	39.3	38.4
77°	35.9	35.9	36.9	37.3	37.6	36.8
77.5°	34.4	34.2	35.2	35.6	35.9	35.1
78°	32.7	32.7	33.6	33.9	34.1	33.6
78.5°	31.2	31.0	31.9	32.3	32.5	31.9
79°	29.7	29.4	30.3	30.7	30.9	30.2
79.5°	28.1	27.8	28.7	29.0	29.3	28.7
80°	26.6	26.3	27.0	27.4	27.7	27.1
80.5°	25.1	24.7	25.6	25.8	26.2	25.6
81°	23.6	23.4	24.0	24.3	24.6	24.1
81.5°	22.2	22.0	22.6	22.9	23.1	22.8
82°	20.9	20.5	21.2	21.4	21.7	21.4
82.5°	19.5	19.1	19.6	19.8	20.1	19.9
83°	18.1	17.6	18.2	18.4	18.7	18.5
83.5°	16.7	16.2	16.7	16.9	17.2	17.0
84°	15.3	14.8	15.2	15.4	15.8	15.6
84.5°	13.9	13.3	13.8	14.0	14.3	14.3
85°	12.6	12.0	12.4	12.5	13.0	12.9
85.5°	11.2	10.6	10.9	11.3	11.5	11.6
86°	10.0	9.3	9.6	9.8	10.2	10.3
86.5°	8.7	7.9	8.2	8.4	8.8	9.0
87°	7.2	6.6	6.8	7.0	7.5	7.8
87.5°	5.9	5.3	5.6	5.8	6.1	6.6
88°	4.7	3.7	4.1	4.4	4.8	5.4
88.5°	3.2	2.4	2.7	2.8	3.5	4.1
89°	1.9	1.6	1.6	1.8	2.4	2.9
89.5°	1.0	1.1	1.0	1.2	1.5	1.9



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.6	0.9	0.7	0.9	1.1	1.1
90.5°	0.4	0.7	0.7	0.7	0.9	0.9
91°	0.3	0.7	0.6	0.5	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	0.5	0.6
92.5°	0.3	0.5	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: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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	0.6	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	0.7	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: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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°	0.5	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	0.8	0.8
138°	0.5	0.5	0.7	0.7	0.8	0.8
138.5°	0.5	0.5	0.7	0.7	0.8	0.8
139°	0.5	0.5	0.7	0.7	0.8	0.8
139.5°	0.5	0.5	0.7	0.7	0.8	0.8
140°	0.5	0.5	0.7	0.7	0.8	0.8
140.5°	0.5	0.5	0.7	0.7	0.8	0.7
141°	0.5	0.5	0.7	0.7	0.8	0.7
141.5°	0.6	0.5	0.7	0.7	0.8	1.0
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	0.8
143°	0.7	0.5	0.7	0.7	0.8	0.9
143.5°	0.6	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	0.8
147.5°	0.7	0.5	0.7	0.8	0.8	0.8
148°	0.6	0.5	0.8	0.8	0.8	0.8
148.5°	0.7	0.5	0.8	0.8	0.8	0.8
149°	0.5	0.5	0.7	0.8	0.8	0.7
149.5°	0.7	0.5	0.9	0.8	0.8	0.8
150°	0.6	0.6	0.9	0.8	0.8	1.1
150.5°	0.7	0.6	0.9	0.8	0.8	0.8
151°	0.7	0.8	0.9	0.8	0.8	0.8
151.5°	0.6	0.8	0.9	0.8	0.9	0.8
152°	0.6	0.8	0.9	0.8	0.9	0.8
152.5°	0.8	0.8	0.9	0.8	0.8	0.9
153°	0.5	0.8	0.9	0.8	1.1	0.9
153.5°	0.7	0.8	0.9	0.8	1.0	0.7
154°	0.7	0.8	0.9	0.8	1.0	0.7
154.5°	0.6	0.8	0.9	0.8	0.9	0.8
155°	0.9	0.8	0.9	0.8	0.9	0.8
155.5°	0.8	0.8	0.9	0.8	1.0	0.8
156°	0.7	0.8	0.9	0.8	1.0	0.8
156.5°	0.7	0.8	0.9	0.8	1.0	0.8
157°	0.7	0.9	0.9	0.8	0.9	0.9



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.7	0.8	0.9	0.8	0.9	0.9
158°	0.5	0.8	0.9	0.8	0.9	0.9
158.5°	0.7	0.8	0.9	1.0	0.9	0.9
159°	0.7	0.8	0.9	0.9	0.9	0.9
159.5°	0.7	0.8	0.9	0.9	0.9	0.8
160°	0.6	0.8	0.9	0.9	0.9	0.8
160.5°	0.7	0.8	0.9	0.9	0.9	0.8
161°	0.8	0.8	0.9	0.9	0.9	0.8
161.5°	0.8	0.8	0.9	0.9	0.9	0.8
162°	0.7	0.8	0.9	0.9	0.9	0.8
162.5°	0.8	0.8	0.9	0.9	1.0	0.9
163°	0.8	0.8	0.9	0.9	0.9	0.9
163.5°	0.8	0.8	0.9	0.9	0.9	0.9
164°	0.8	0.8	1.0	0.9	1.0	0.9
164.5°	0.9	0.8	0.9	0.9	1.0	0.9
165°	0.8	0.9	1.0	0.9	1.0	1.0
165.5°	0.7	0.9	1.0	0.9	1.0	1.0
166°	0.7	0.9	1.0	0.9	1.0	0.9
166.5°	0.9	1.0	1.0	1.0	1.0	1.0
167°	0.8	1.0	1.0	0.9	1.0	1.0
167.5°	0.8	0.9	1.0	0.9	1.1	1.0
168°	0.8	0.9	1.0	1.2	1.1	1.0
168.5°	0.8	0.9	1.0	1.2	1.1	1.3
169°	0.9	0.9	1.0	1.2	1.0	1.2
169.5°	0.8	0.9	1.0	1.1	1.0	1.2
170°	1.2	0.9	1.0	1.1	1.0	1.2
170.5°	1.1	0.9	1.0	1.0	1.0	1.2
171°	1.1	0.9	1.0	1.0	1.0	1.1
171.5°	1.0	0.9	1.0	1.0	1.0	1.1
172°	1.0	0.9	1.0	1.0	1.0	1.1
172.5°	1.0	0.9	1.0	1.0	1.0	1.1
173°	0.9	0.9	1.0	1.0	1.0	1.1
173.5°	0.9	0.9	1.0	1.0	1.0	1.1
174°	0.8	1.0	1.0	1.0	1.0	1.1
174.5°	0.9	1.0	1.0	1.0	1.0	1.1
175°	0.9	1.0	1.0	1.0	1.0	1.1
175.5°	0.9	1.0	1.0	1.0	1.0	0.9
176°	1.0	1.0	1.1	1.0	1.0	0.9
176.5°	0.9	1.0	1.0	1.0	1.0	0.9
177°	1.0	1.0	1.0	1.0	1.0	0.9
177.5°	1.0	1.0	1.3	0.9	1.0	0.9
178°	1.1	1.0	1.1	0.9	1.0	0.9
178.5°	1.2	1.0	1.1	0.8	1.0	1.0
179°	0.9	1.0	1.2	0.8	1.0	1.0
179.5°	0.9	1.0	1.1	0.8	1.0	1.0



TEST NUMBER: P473752

CATALOG NUMBER: HLB4069BLE40AWH-3000K

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)