

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: P473753

Luminaire Tested: **HLB4069BLE40AWH-3500K**

Issue Date: 2/2/2021



Test Information

Test Method: LM-79-08
Report Number: P473753
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-3500K
Description: 4in HALO HOME BLADE
Light Source: -
Ballast/Driver: -

Summary

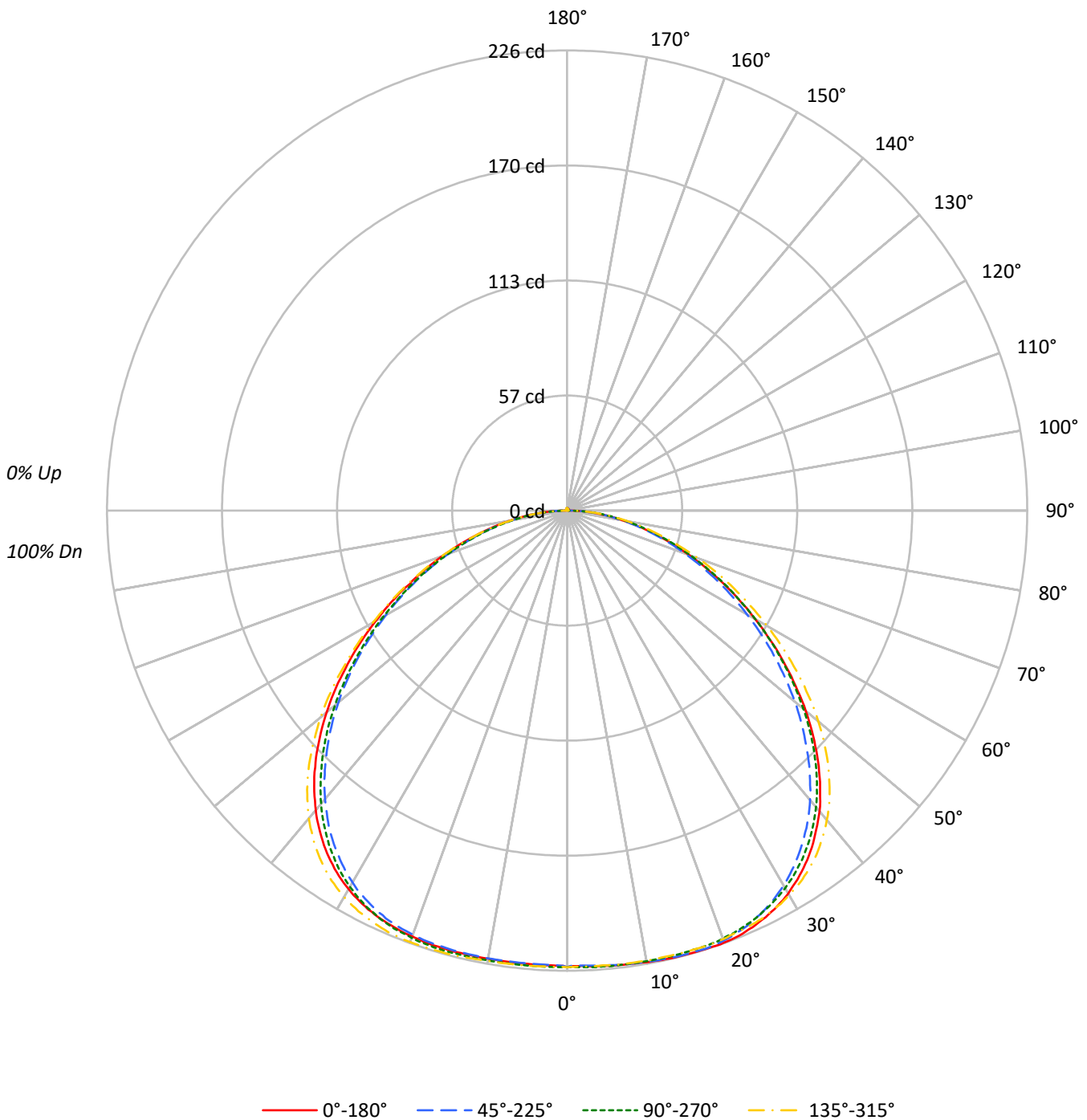
Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.41 / 1.4 / 1.47
Luminous Opening: Circular (Dia: 0.33m x H: 0m)
CIE Type: Direct

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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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°	2560	2560	2560	2560
5°	2572	2573	2561	2570
10°	2610	2604	2590	2600
15°	2668	2654	2642	2652
20°	2743	2716	2702	2712
25°	2808	2776	2772	2772
30°	2863	2823	2830	2812
35°	2884	2844	2863	2824
40°	2873	2834	2862	2801
45°	2812	2779	2821	2741
50°	2717	2690	2740	2644
55°	2587	2571	2621	2521
60°	2436	2440	2479	2381
65°	2285	2301	2298	2236
70°	2126	2156	2172	2082
75°	1976	2024	2020	1932
80°	1827	1926	1873	1775
85°	1729	1925	1820	1611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	3.0
10°-20°	63.6	8.9
20°-30°	101.9	14.3
30°-40°	128.1	17.9
40°-50°	133.4	18.7
50°-60°	116.0	16.2
60°-70°	84.2	11.8
70°-80°	48.0	6.7
80°-90°	15.1	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°	186.9	26.1
0°-40°	315.0	44.1
0°-60°	564.4	78.9
0°-90°	711.7	99.5
90°-120°	1.3	0.2
90°-150°	2.6	0.4
90°-180°	3.0	0.4
0°-180°	715.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	224	224	224	224	224	
5°	224	225	224	224	224	21
15°	226	225	224	224	226	64
25°	223	220	220	220	223	103
35°	207	204	206	203	207	129
45°	174	172	175	170	174	134
55°	130	129	132	127	130	116
65°	85	85	85	83	85	84
75°	45	46	46	44	45	48
85°	13	15	14	12	13	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°	224.3	224.3	224.3	224.3	224.3	224.3	224.3	224.3	224.3	224.3	224.3
0.5°	223.7	223.6	223.6	223.5	224.3	224.2	224.1	223.9	223.6	223.6	223.6
1°	223.7	223.6	223.6	223.6	224.3	224.2	224.1	223.9	223.6	223.6	223.5
1.5°	223.8	223.6	223.6	223.6	224.3	224.3	224.1	223.9	223.5	223.6	223.3
2°	223.7	223.6	223.6	223.6	224.4	224.3	224.1	223.9	223.5	223.6	223.3
2.5°	224.0	223.7	223.7	223.7	224.4	224.2	224.1	223.9	223.5	223.6	223.3
3°	224.1	223.8	223.8	223.7	224.6	224.2	224.1	223.9	223.5	223.6	223.3
3.5°	224.3	224.0	223.9	223.7	224.6	224.2	224.2	223.9	223.5	223.6	223.3
4°	224.3	224.0	223.9	223.8	224.6	224.4	224.2	223.9	223.5	223.6	223.3
4.5°	224.3	224.0	224.0	223.9	224.6	224.5	224.1	223.9	223.5	223.6	223.3
5°	224.5	224.4	224.2	223.9	224.6	224.5	224.2	223.9	223.5	223.6	223.3
5.5°	224.6	224.6	224.2	224.2	224.7	224.6	224.3	223.9	223.5	223.6	223.3
6°	224.6	224.6	224.4	224.3	224.7	224.6	224.3	223.9	223.5	223.6	223.3
6.5°	224.7	224.7	224.6	224.4	224.7	224.6	224.4	223.9	223.5	223.6	223.3
7°	224.8	224.7	224.8	224.5	224.7	224.6	224.4	223.9	223.5	223.6	223.3
7.5°	224.8	224.8	224.8	224.5	224.7	224.6	224.4	223.9	223.5	223.6	223.3
8°	224.8	224.8	224.8	224.8	224.7	224.6	224.4	223.9	223.5	223.6	223.3
8.5°	224.9	224.9	224.8	224.9	224.7	224.6	224.4	223.9	223.5	223.6	223.3
9°	224.8	225.0	224.9	224.9	224.7	224.6	224.4	223.9	223.5	223.6	223.3
9.5°	225.0	225.1	224.9	224.9	224.7	224.6	224.4	223.9	223.5	223.6	223.3
10°	225.2	225.1	225.1	225.0	224.7	224.6	224.4	223.9	223.5	223.6	223.3
10.5°	225.4	225.4	225.1	225.0	224.7	224.6	224.4	223.9	223.5	223.6	223.3
11°	225.4	225.7	225.2	225.1	224.7	224.6	224.4	223.9	223.5	223.6	223.4
11.5°	225.5	225.7	225.4	225.0	224.7	224.6	224.4	223.9	223.5	223.6	223.2
12°	225.6	225.7	225.3	225.1	224.7	224.6	224.4	223.9	223.5	223.6	223.2
12.5°	225.6	225.7	225.4	225.2	224.7	224.6	224.4	223.9	223.5	223.6	223.2
13°	225.7	225.7	225.5	225.2	224.8	224.6	224.4	223.9	223.5	223.6	223.2
13.5°	225.8	225.7	225.6	225.2	224.7	224.6	224.4	223.9	223.5	223.4	223.1
14°	225.8	225.7	225.6	225.2	224.7	224.6	224.4	223.9	223.5	223.4	223.1
14.5°	225.8	225.7	225.6	225.2	224.7	224.6	224.4	223.9	223.6	223.2	223.1
15°	225.8	225.7	225.6	225.2	224.6	224.6	224.4	223.9	223.6	223.2	223.0
15.5°	225.8	225.7	225.6	225.2	224.6	224.6	224.4	223.9	223.4	223.1	222.9
16°	225.8	225.8	225.6	225.2	224.4	224.6	224.4	223.9	223.4	223.0	222.8
16.5°	225.8	225.8	225.6	225.2	224.5	224.6	224.4	223.9	223.4	222.9	222.8
17°	225.8	225.8	225.6	225.2	224.5	224.5	224.4	223.7	223.4	222.8	222.7
17.5°	225.8	225.8	225.7	225.2	224.4	224.4	224.4	223.6	223.4	222.8	222.5
18°	225.8	225.8	225.6	225.2	224.3	224.4	224.4	223.5	223.2	222.6	222.5
18.5°	225.8	225.8	225.4	225.1	224.2	224.4	224.4	223.3	223.2	222.5	222.3
19°	225.9	225.6	225.2	224.8	224.2	224.4	224.2	223.3	222.8	222.5	222.1
19.5°	225.9	225.4	225.0	224.8	224.0	224.4	224.1	223.3	222.8	222.4	221.9
20°	225.8	225.2	224.7	224.5	223.6	224.4	224.0	223.2	222.5	222.2	221.7
20.5°	225.7	225.0	224.5	224.3	223.4	224.1	223.9	223.0	222.4	221.8	221.4
21°	225.6	224.8	224.2	224.0	223.1	223.7	223.6	222.9	222.4	221.6	221.1
21.5°	225.4	224.6	223.8	223.6	223.1	223.5	223.4	222.7	222.2	221.4	220.9
22°	225.2	224.2	223.4	223.2	222.6	223.3	223.3	222.6	221.9	221.1	220.6



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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°	224.9	223.8	223.0	223.0	222.4	223.2	223.2	222.6	221.6	220.7	220.3
23°	224.6	223.4	222.6	222.6	222.0	223.0	223.1	222.3	221.3	220.4	219.9
23.5°	224.2	223.0	222.2	222.0	221.6	222.7	223.1	222.2	221.1	220.0	219.6
24°	224.0	222.5	221.6	221.6	221.3	222.5	222.6	222.1	220.7	219.5	219.2
24.5°	223.5	222.0	221.1	221.1	220.9	222.2	222.6	221.5	220.5	219.2	218.4
25°	223.0	221.5	220.3	220.7	220.4	221.9	222.2	221.3	220.1	218.6	218.1
25.5°	222.6	221.0	219.9	220.0	219.9	221.4	222.1	221.0	219.8	218.1	217.4
26°	222.3	220.3	219.2	219.5	219.3	221.2	221.7	221.1	219.2	217.8	216.9
26.5°	221.7	219.7	218.5	218.6	218.8	220.7	221.3	220.3	219.0	217.1	216.3
27°	221.1	219.1	217.7	217.9	218.2	220.1	221.0	220.0	218.2	216.5	215.5
27.5°	220.6	218.4	217.0	217.4	217.6	219.8	220.5	219.9	217.8	215.9	214.9
28°	220.0	217.6	216.2	216.4	216.9	219.2	220.1	219.0	217.2	215.1	214.2
28.5°	219.3	216.8	215.3	215.7	216.4	218.6	219.8	218.7	216.6	214.4	213.3
29°	218.7	215.9	214.4	214.8	215.6	218.1	219.2	218.1	216.1	213.7	212.8
29.5°	217.9	215.0	213.5	213.9	214.8	217.4	218.6	217.6	215.4	213.1	211.8
30°	217.2	214.1	212.6	213.0	214.2	216.9	218.0	217.1	214.7	212.2	210.9
30.5°	216.2	213.3	211.6	211.9	213.3	216.2	217.5	216.3	213.9	211.5	209.9
31°	215.3	212.3	210.5	211.0	212.4	215.4	216.7	215.8	213.2	210.5	209.0
31.5°	214.4	211.2	209.4	210.0	211.6	214.6	216.2	215.1	212.4	209.5	208.1
32°	213.6	210.1	208.3	208.9	210.6	213.7	215.6	214.4	211.6	208.5	206.9
32.5°	212.4	209.1	207.2	207.8	209.6	212.9	214.9	213.6	210.6	207.6	205.8
33°	211.5	207.9	205.9	206.6	208.5	212.0	214.0	212.7	209.7	206.6	204.7
33.5°	210.4	206.6	204.7	205.4	207.5	211.1	213.3	211.8	208.6	205.5	203.4
34°	209.2	205.5	203.5	204.1	206.5	210.1	212.3	210.9	207.6	204.5	202.3
34.5°	208.2	204.2	202.1	202.7	205.4	209.0	211.4	210.1	206.6	203.3	201.1
35°	207.0	202.8	200.8	201.3	204.1	208.0	210.6	209.1	205.5	202.0	199.8
35.5°	205.7	201.5	199.5	200.0	202.9	207.1	209.6	208.0	204.3	200.9	198.4
36°	204.5	200.0	198.1	198.8	201.6	206.0	208.6	207.0	203.2	199.5	197.2
36.5°	203.1	198.6	196.6	197.3	200.4	204.8	207.4	205.9	201.9	198.1	195.8
37°	201.7	197.2	195.3	195.8	199.0	203.5	206.2	204.7	200.6	196.6	194.5
37.5°	200.2	195.8	193.7	194.4	197.6	202.3	204.9	203.4	199.2	195.4	192.8
38°	198.8	194.2	192.1	192.8	196.2	200.9	203.8	202.1	197.9	194.1	191.3
38.5°	197.4	192.6	190.6	191.3	194.8	199.5	202.5	200.9	196.6	192.4	189.7
39°	195.9	191.1	189.0	189.7	193.2	198.2	201.2	199.4	195.2	190.9	188.2
39.5°	194.4	189.6	187.3	188.1	191.8	196.8	199.9	198.0	193.7	189.2	186.6
40°	192.8	187.8	185.6	186.3	190.2	195.3	198.4	196.5	192.1	187.8	185.1
40.5°	191.2	186.1	183.8	184.7	188.6	193.8	197.1	195.0	190.5	186.1	183.4
41°	189.5	184.3	182.2	182.9	186.8	192.3	195.5	193.6	188.8	184.5	181.7
41.5°	187.5	182.6	180.1	181.2	185.2	190.7	194.2	192.1	187.3	182.7	180.0
42°	185.7	180.6	178.4	179.2	183.3	189.0	192.5	190.6	185.6	181.0	178.2
42.5°	183.9	178.9	176.5	177.5	181.6	187.3	190.8	188.7	183.9	179.2	176.3
43°	182.2	176.9	174.6	175.6	179.8	185.7	189.0	187.0	182.1	177.4	174.5
43.5°	180.1	175.0	172.7	173.7	177.9	183.9	187.2	185.3	180.4	175.6	172.5
44°	178.1	173.0	170.7	171.7	176.1	182.1	185.4	183.6	178.6	173.7	170.8
44.5°	176.3	171.1	168.7	169.8	174.1	180.0	183.6	181.9	176.6	171.8	168.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	174.2	169.1	166.6	167.8	172.2	178.1	181.7	179.9	174.8	169.8	166.9
45.5°	172.2	167.0	164.7	165.8	170.3	176.1	179.8	178.0	172.9	167.8	164.9
46°	170.2	165.0	162.6	163.9	168.3	174.1	177.9	176.0	171.0	165.9	163.1
46.5°	168.0	162.8	160.7	161.8	166.2	172.2	176.0	174.0	168.8	164.0	161.0
47°	166.0	160.9	158.7	159.8	164.2	170.1	173.8	171.9	166.8	161.9	159.2
47.5°	163.8	158.9	156.6	157.8	162.1	168.0	171.7	169.8	164.8	159.9	157.1
48°	161.7	156.7	154.5	155.6	160.1	165.9	169.7	167.8	162.8	157.9	155.1
48.5°	159.7	154.5	152.4	153.5	158.0	163.8	167.7	165.8	160.6	155.9	153.0
49°	157.5	152.4	150.3	151.4	155.9	161.6	165.4	163.6	158.6	153.8	151.0
49.5°	155.3	150.2	148.2	149.2	153.8	159.7	163.2	161.4	156.4	151.6	148.8
50°	153.0	148.0	145.9	147.1	151.5	157.5	161.0	159.4	154.3	149.4	146.6
50.5°	150.8	145.7	143.8	144.8	149.3	155.2	158.9	157.2	152.0	147.3	144.6
51°	148.5	143.6	141.5	142.8	147.1	153.0	156.6	155.0	149.9	145.1	142.4
51.5°	146.1	141.3	139.4	140.5	144.9	150.9	154.4	152.8	147.7	142.9	140.3
52°	143.8	139.1	137.3	138.3	142.6	148.6	152.0	150.5	145.5	140.6	138.1
52.5°	141.5	136.7	135.0	136.0	140.4	146.2	149.5	148.2	143.2	138.4	135.9
53°	139.2	134.5	132.8	133.7	138.1	143.8	147.1	145.9	141.0	136.2	133.7
53.5°	136.9	132.2	130.6	131.6	135.9	141.6	144.9	143.6	138.6	133.9	131.5
54°	134.5	129.9	128.4	129.4	133.7	139.3	142.4	141.2	136.3	131.6	129.3
54.5°	132.2	127.6	126.4	127.2	131.4	137.1	140.1	138.8	133.9	129.4	127.1
55°	130.0	125.5	124.0	125.1	129.2	134.7	137.6	136.4	131.7	127.0	125.0
55.5°	127.6	123.2	121.9	122.8	126.9	132.2	135.2	134.0	129.4	124.8	122.7
56°	125.3	120.9	119.6	120.6	124.7	129.8	132.8	131.6	127.1	122.5	120.5
56.5°	123.1	118.7	117.4	118.3	122.6	127.5	130.4	129.2	124.9	120.3	118.3
57°	120.7	116.5	115.2	116.1	120.3	125.3	128.0	126.8	122.5	118.1	116.0
57.5°	118.3	114.2	113.1	113.8	118.0	122.9	125.6	124.5	120.2	115.9	113.8
58°	115.9	111.9	110.8	111.7	115.7	120.6	123.2	122.1	117.9	113.6	111.7
58.5°	113.7	109.7	108.7	109.3	113.6	118.3	120.8	119.8	115.6	111.3	109.5
59°	111.3	107.4	106.4	107.3	111.4	116.0	118.3	117.5	113.2	109.2	107.3
59.5°	109.1	105.3	104.2	105.1	109.2	113.6	116.0	115.0	110.9	107.0	105.1
60°	106.7	103.1	102.1	102.9	106.9	111.3	113.6	112.6	108.6	104.8	102.9
60.5°	104.5	100.9	99.9	100.6	104.6	108.9	111.2	110.3	106.4	102.6	100.8
61°	102.2	98.7	97.7	98.6	102.5	106.5	108.8	107.9	104.1	100.4	98.6
61.5°	100.1	96.4	95.6	96.5	100.2	104.4	106.4	105.6	101.9	98.2	96.5
62°	97.6	94.4	93.5	94.4	98.0	102.0	104.1	103.3	99.5	96.1	94.4
62.5°	95.4	92.3	91.6	92.4	95.8	99.7	101.7	100.8	97.3	93.8	92.3
63°	93.2	90.2	89.4	90.3	93.6	97.4	99.5	98.5	95.0	91.7	90.3
63.5°	91.1	88.1	87.6	88.2	91.4	95.2	97.1	96.2	92.8	89.7	88.2
64°	88.9	86.1	85.4	86.2	89.5	92.9	94.8	94.0	90.8	87.7	86.1
64.5°	86.7	84.1	83.4	84.1	87.4	90.9	92.5	91.6	88.3	85.6	84.0
65°	84.6	82.0	81.3	82.0	85.2	88.7	90.5	89.5	85.1	83.1	81.9
65.5°	82.4	79.9	79.2	79.9	83.1	86.6	88.3	87.2	84.0	80.7	79.8
66°	80.2	77.9	77.2	77.9	80.9	84.2	85.9	84.9	81.8	79.2	77.9
66.5°	78.0	75.8	75.2	76.2	78.8	82.0	83.7	82.6	79.7	77.1	75.8
67°	75.9	73.8	73.2	74.0	76.8	79.8	81.6	80.5	77.6	75.1	73.8



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	73.9	71.8	71.2	72.1	74.7	77.7	79.3	78.3	75.5	73.1	71.7
68°	71.9	69.8	69.3	70.1	72.6	75.5	77.1	76.0	73.4	71.0	69.7
68.5°	69.7	67.8	67.4	68.1	70.6	73.3	74.8	73.9	71.3	69.1	67.7
69°	67.7	65.9	65.4	66.2	68.6	71.2	72.7	71.8	69.1	67.1	65.8
69.5°	65.6	63.9	63.4	64.2	66.6	69.2	70.5	69.6	67.1	65.0	63.9
70°	63.7	61.9	61.6	62.3	64.6	67.1	68.3	67.4	65.1	63.1	61.9
70.5°	61.6	60.0	59.7	60.4	62.7	65.1	66.2	65.4	63.1	61.1	60.0
71°	59.6	58.1	57.8	58.6	60.7	63.0	64.1	63.2	61.1	59.1	58.2
71.5°	57.8	56.4	56.1	56.7	58.8	61.0	62.0	61.2	59.0	57.2	56.4
72°	56.1	54.5	54.3	54.8	56.9	59.0	59.9	59.2	57.1	55.4	54.5
72.5°	54.1	52.5	52.4	53.1	55.1	57.0	57.8	57.2	55.4	53.5	52.7
73°	52.2	50.7	50.5	51.2	53.2	55.1	55.9	55.3	53.3	51.6	51.0
73.5°	50.2	48.9	48.7	49.4	51.3	53.2	54.0	53.2	51.4	49.9	49.0
74°	48.4	47.1	47.0	47.7	49.5	51.3	52.1	51.3	49.5	47.9	47.2
74.5°	46.5	45.4	45.2	45.8	47.8	49.4	50.0	49.3	47.6	46.1	45.5
75°	44.8	43.6	43.5	44.1	45.9	47.6	48.1	47.3	45.8	44.3	43.8
75.5°	43.0	41.9	41.8	42.3	44.2	45.7	46.2	45.5	44.0	42.6	42.0
76°	41.2	40.3	40.3	40.6	42.6	43.9	44.3	43.7	42.2	40.8	40.4
76.5°	39.4	38.5	38.4	38.9	40.8	42.1	42.4	41.8	40.4	39.2	38.6
77°	37.7	36.9	36.9	37.2	39.1	40.3	40.6	40.0	38.6	37.4	37.0
77.5°	36.0	35.2	35.2	35.6	37.4	38.5	38.9	38.2	36.9	35.8	35.4
78°	34.4	33.6	33.6	34.0	35.8	37.0	37.1	36.4	35.3	34.2	33.8
78.5°	32.7	32.0	32.0	32.3	34.1	35.1	35.2	34.8	33.5	32.6	32.1
79°	31.0	30.4	30.5	30.7	32.5	33.4	33.6	33.0	31.9	30.8	30.6
79.5°	29.5	28.8	28.9	29.1	30.8	31.9	31.8	31.4	30.2	29.2	29.0
80°	27.8	27.3	27.4	27.7	29.3	30.3	30.1	29.7	28.5	27.6	27.5
80.5°	26.3	25.8	25.8	26.1	27.6	28.5	28.5	28.1	27.0	26.2	26.1
81°	24.7	24.3	24.4	24.5	26.1	26.9	26.9	26.5	25.5	24.6	24.4
81.5°	23.4	23.0	23.1	23.2	24.6	25.3	25.3	24.8	23.8	23.2	22.9
82°	21.9	21.6	21.7	21.9	23.1	23.6	23.6	23.3	22.5	22.1	21.6
82.5°	20.4	20.2	20.3	20.3	21.7	22.4	22.3	21.9	21.0	20.5	20.2
83°	19.0	18.7	18.9	18.9	20.3	20.9	20.8	20.4	19.6	18.9	18.8
83.5°	17.5	17.3	17.4	17.6	18.9	19.4	19.1	18.9	18.2	17.5	17.3
84°	16.0	15.9	16.0	16.2	17.5	17.9	17.8	17.3	16.7	16.1	15.9
84.5°	14.7	14.5	14.7	14.8	16.1	16.6	16.1	15.8	15.2	14.7	14.5
85°	13.2	13.2	13.4	13.4	14.7	15.0	14.8	14.5	13.9	13.4	13.1
85.5°	11.9	11.9	12.1	12.2	13.3	13.7	13.4	13.0	12.5	12.0	11.7
86°	10.5	10.7	10.8	10.9	12.0	12.2	11.9	11.6	11.1	10.7	10.4
86.5°	9.2	9.4	9.5	9.6	10.7	10.9	10.5	10.3	9.7	9.3	9.1
87°	8.0	8.2	8.2	8.4	9.3	9.4	9.2	8.7	8.4	8.0	7.8
87.5°	6.7	7.0	7.0	7.1	8.1	8.2	7.8	7.4	7.1	6.6	6.4
88°	5.5	5.9	5.8	6.0	6.8	6.8	6.4	6.1	5.8	5.2	5.1
88.5°	4.2	4.6	4.7	4.7	5.5	5.3	5.0	5.0	4.5	4.0	3.8
89°	3.0	3.5	3.6	3.5	4.2	4.0	3.6	3.4	3.2	2.7	2.4
89.5°	1.9	2.3	2.5	2.5	2.9	2.8	2.4	2.2	1.9	1.4	1.3



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.2	1.4	1.6	1.8	1.8	1.7	1.4	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	0.5	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: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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	0.3	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: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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°	1.1	1.1	0.7	0.5	0.7	0.5	0.6	0.7	0.7	0.7	0.6
142°	1.0	0.9	0.7	0.5	0.7	0.5	0.7	0.7	0.7	0.7	0.5
142.5°	0.9	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	0.9	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	0.9	0.3	0.7	0.5
145.5°	0.8	0.7	0.7	0.5	0.7	0.5	0.6	0.9	0.7	0.7	0.5
146°	0.8	0.9	0.7	0.6	0.7	0.5	0.8	0.9	0.8	0.7	0.5
146.5°	0.8	0.9	0.7	0.6	0.7	0.5	0.8	1.5	0.7	0.7	0.7
147°	0.9	0.9	0.7	0.7	0.7	0.5	0.7	0.5	0.7	0.7	0.7
147.5°	0.9	0.9	0.8	0.6	0.7	0.6	0.7	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	0.9	0.8	0.6	0.7	0.6	0.8	0.5	0.9	0.8	0.7
149°	0.7	0.9	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	0.7
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°	0.9	1.0	0.8	0.6	0.7	0.7	0.8	0.8	0.5	0.8	0.7
151°	0.9	0.9	0.9	0.6	0.7	0.7	0.7	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	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	0.9	0.9	0.9	0.8	0.8
153°	0.9	0.9	0.9	0.7	0.7	0.7	0.9	0.8	0.9	0.8	0.7
153.5°	0.8	0.9	0.9	0.7	0.7	0.8	0.8	0.9	0.9	0.8	0.7
154°	0.7	0.9	1.0	0.8	0.7	0.8	0.9	0.8	0.9	0.9	0.7
154.5°	0.8	1.0	0.9	0.9	0.7	0.8	0.9	0.8	0.9	0.9	0.7
155°	0.9	1.0	0.9	0.8	0.7	0.8	0.9	0.9	0.9	0.9	0.6
155.5°	0.9	1.2	0.9	0.8	0.7	0.8	0.9	0.9	0.9	0.9	0.6
156°	0.9	1.0	0.9	0.8	0.7	0.8	0.9	0.7	0.9	0.9	0.6
156.5°	0.9	0.9	0.9	0.8	0.7	0.8	0.8	0.7	1.0	0.9	0.6
157°	0.9	0.9	1.0	0.8	0.7	0.9	0.8	0.8	1.0	1.0	0.6



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	224.3	224.3	224.3	224.3	224.3	224.3
0.5°	223.5	224.3	224.2	224.1	223.9	223.7
1°	223.5	224.3	224.2	224.1	223.9	223.7
1.5°	223.5	224.3	224.2	224.2	223.9	223.8
2°	223.5	224.3	224.2	224.2	223.9	223.7
2.5°	223.5	224.3	224.2	224.2	223.9	224.0
3°	223.5	224.3	224.2	224.2	223.9	224.1
3.5°	223.5	224.3	224.2	224.3	223.9	224.3
4°	223.5	224.3	224.1	224.3	224.1	224.3
4.5°	223.5	224.3	224.1	224.3	224.2	224.3
5°	223.5	224.3	224.1	224.4	224.3	224.5
5.5°	223.5	224.3	224.1	224.4	224.3	224.6
6°	223.5	224.3	224.1	224.5	224.4	224.6
6.5°	223.5	224.3	224.2	224.5	224.4	224.7
7°	223.5	224.3	224.2	224.4	224.4	224.8
7.5°	223.5	224.3	224.2	224.4	224.6	224.8
8°	223.5	224.3	224.4	224.5	224.7	224.8
8.5°	223.5	224.3	224.4	224.5	224.7	224.9
9°	223.5	224.3	224.3	224.5	224.8	224.8
9.5°	223.5	224.4	224.4	224.6	225.0	225.0
10°	223.5	224.3	224.4	224.6	225.1	225.2
10.5°	223.5	224.3	224.4	224.7	225.0	225.4
11°	223.4	224.4	224.4	224.7	225.2	225.4
11.5°	223.3	224.4	224.4	224.8	225.3	225.5
12°	223.3	224.4	224.4	224.9	225.3	225.6
12.5°	223.3	224.4	224.4	225.0	225.4	225.6
13°	223.2	224.4	224.4	225.0	225.5	225.7
13.5°	223.1	224.4	224.4	225.3	225.5	225.8
14°	223.0	224.4	224.4	225.2	225.5	225.8
14.5°	223.0	224.4	224.5	225.4	225.5	225.8
15°	223.0	224.4	224.5	225.5	225.6	225.8
15.5°	222.8	224.4	224.5	225.5	225.7	225.8
16°	222.8	224.3	224.5	225.4	225.7	225.8
16.5°	222.7	224.2	224.5	225.5	225.7	225.8
17°	222.6	224.3	224.5	225.5	225.8	225.8
17.5°	222.5	224.0	224.5	225.5	225.8	225.8
18°	222.3	224.0	224.5	225.6	225.8	225.8
18.5°	222.1	223.8	224.5	225.6	225.7	225.8
19°	221.9	223.8	224.5	225.5	225.7	225.9
19.5°	221.8	223.6	224.6	225.5	225.7	225.9
20°	221.5	223.3	224.6	225.5	225.9	225.8
20.5°	221.2	223.0	224.4	225.5	225.9	225.7
21°	220.9	222.8	224.3	225.5	225.8	225.6
21.5°	220.7	222.6	224.0	225.4	225.8	225.4
22°	220.3	222.4	223.8	225.0	225.7	225.2



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	219.9	222.2	223.6	225.0	225.5	224.9
23°	219.5	221.8	223.4	224.9	225.2	224.6
23.5°	219.2	221.4	222.9	224.5	225.1	224.2
24°	218.6	221.0	222.8	224.3	224.9	224.0
24.5°	218.2	220.6	222.3	224.0	224.6	223.5
25°	217.7	220.1	222.0	223.7	224.2	223.0
25.5°	217.1	219.5	221.6	223.4	223.9	222.6
26°	216.6	218.9	221.2	223.0	223.5	222.3
26.5°	216.1	218.5	220.8	222.7	223.1	221.7
27°	215.3	218.0	220.1	222.2	222.7	221.1
27.5°	214.6	217.2	219.6	221.9	222.3	220.6
28°	213.9	216.5	218.9	221.3	221.8	220.0
28.5°	213.0	215.8	218.2	220.9	221.3	219.3
29°	212.3	215.0	217.6	220.3	220.7	218.7
29.5°	211.4	214.2	217.0	219.7	220.1	217.9
30°	210.7	213.4	216.4	219.1	219.5	217.2
30.5°	209.7	212.5	215.6	218.5	218.8	216.2
31°	208.6	211.5	214.8	217.7	218.0	215.3
31.5°	207.8	210.6	213.9	217.0	217.3	214.4
32°	206.6	209.6	213.0	216.1	216.4	213.6
32.5°	205.6	208.7	212.2	215.4	215.6	212.4
33°	204.5	207.5	211.1	214.5	214.6	211.5
33.5°	203.5	206.4	210.1	213.5	213.7	210.4
34°	202.2	205.1	209.1	212.6	212.8	209.2
34.5°	200.9	204.0	207.9	211.5	211.7	208.2
35°	199.7	202.7	206.7	210.4	210.5	207.0
35.5°	198.6	201.5	205.6	209.4	209.4	205.7
36°	197.1	200.0	204.4	208.2	208.2	204.5
36.5°	195.6	198.7	203.2	207.0	207.0	203.1
37°	194.5	197.2	201.7	205.8	205.7	201.7
37.5°	192.9	195.8	200.3	204.5	204.4	200.2
38°	191.4	194.4	198.9	203.0	202.9	198.8
38.5°	190.1	192.8	197.4	201.6	201.5	197.4
39°	188.3	191.3	196.0	200.4	200.1	195.9
39.5°	186.7	189.7	194.5	198.9	198.6	194.4
40°	185.0	188.0	192.9	197.3	197.0	192.8
40.5°	183.6	186.4	191.3	195.6	195.5	191.2
41°	181.8	184.6	189.7	194.1	193.9	189.5
41.5°	180.0	182.9	187.9	192.3	192.2	187.5
42°	178.1	181.0	186.1	190.7	190.6	185.7
42.5°	176.3	179.2	184.4	189.0	188.8	183.9
43°	174.4	177.4	182.7	187.3	186.9	182.2
43.5°	172.6	175.4	180.9	185.3	185.0	180.1
44°	170.7	173.6	179.1	183.5	183.1	178.1
44.5°	168.8	171.6	177.2	181.5	181.1	176.3



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	166.9	169.8	175.1	179.6	179.2	174.2
45.5°	164.9	167.8	173.1	177.7	177.2	172.2
46°	163.0	165.7	171.1	175.5	175.1	170.2
46.5°	161.0	163.7	169.0	173.4	173.1	168.0
47°	159.2	161.6	166.8	171.3	170.9	166.0
47.5°	156.9	159.7	164.7	169.1	168.8	163.8
48°	154.9	157.6	162.6	166.9	166.7	161.7
48.5°	152.8	155.4	160.7	164.7	164.5	159.7
49°	150.7	153.3	158.4	162.4	162.3	157.5
49.5°	148.5	151.1	156.2	160.3	160.2	155.3
50°	146.4	148.9	154.0	158.1	157.9	153.0
50.5°	144.2	146.7	151.8	155.8	155.5	150.8
51°	142.2	144.6	149.5	153.5	153.2	148.5
51.5°	139.9	142.4	147.3	151.1	150.9	146.1
52°	137.7	140.1	145.0	148.8	148.7	143.8
52.5°	135.6	137.8	142.9	146.3	146.3	141.5
53°	133.3	135.6	140.4	143.9	143.8	139.2
53.5°	131.0	133.5	138.1	141.5	141.5	136.9
54°	128.8	131.1	135.8	139.2	139.1	134.5
54.5°	126.5	129.0	133.5	136.6	136.7	132.2
55°	124.5	126.7	131.1	134.1	134.1	130.0
55.5°	122.1	124.5	128.7	131.6	131.8	127.6
56°	120.0	122.2	126.5	129.3	129.5	125.3
56.5°	117.7	120.0	124.2	126.9	127.0	123.1
57°	115.6	117.7	121.9	124.6	124.6	120.7
57.5°	113.4	115.4	119.4	122.1	122.2	118.3
58°	111.2	113.2	117.1	119.8	119.8	115.9
58.5°	108.9	111.0	114.8	117.4	117.4	113.7
59°	106.8	108.8	112.5	114.9	114.9	111.3
59.5°	104.7	106.5	110.1	112.7	112.6	109.1
60°	102.6	104.3	107.8	110.3	110.2	106.7
60.5°	100.2	102.0	105.4	107.8	107.9	104.5
61°	98.2	99.8	103.2	105.5	105.5	102.2
61.5°	96.0	97.6	100.9	103.2	103.1	100.1
62°	94.0	95.4	98.7	100.9	100.8	97.6
62.5°	91.9	93.2	96.3	98.6	98.5	95.4
63°	89.8	91.2	94.1	96.3	96.2	93.2
63.5°	87.8	89.1	92.1	94.0	93.8	91.1
64°	85.8	87.0	89.8	91.9	91.7	88.9
64.5°	83.6	84.9	87.6	89.6	89.4	86.7
65°	81.6	82.8	85.5	87.5	87.2	84.6
65.5°	79.5	80.7	83.2	85.2	85.0	82.4
66°	77.5	78.6	81.0	82.8	82.7	80.2
66.5°	75.4	76.5	78.9	80.6	80.5	78.0
67°	73.4	74.5	76.7	78.5	78.3	75.9



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	71.5	72.3	74.7	76.3	76.1	73.9
68°	69.5	70.4	72.5	74.2	74.0	71.9
68.5°	67.6	68.4	70.4	72.0	71.7	69.7
69°	65.6	66.3	68.4	69.9	69.7	67.7
69.5°	63.7	64.3	66.3	67.7	67.5	65.6
70°	61.7	62.4	64.3	65.6	65.5	63.7
70.5°	59.9	60.5	62.2	63.5	63.3	61.6
71°	58.0	58.5	60.2	61.5	61.5	59.6
71.5°	56.2	56.7	58.2	59.4	59.3	57.8
72°	54.4	54.8	56.3	57.5	57.5	56.1
72.5°	52.5	53.0	54.3	55.4	55.4	54.1
73°	50.7	51.0	52.6	53.3	53.4	52.2
73.5°	48.9	49.2	50.5	51.4	51.5	50.2
74°	47.1	47.4	48.7	49.4	49.5	48.4
74.5°	45.4	45.6	46.8	47.5	47.7	46.5
75°	43.7	43.8	45.0	45.6	45.8	44.8
75.5°	42.0	42.0	43.2	43.8	43.9	43.0
76°	40.2	40.3	41.4	41.9	42.1	41.2
76.5°	38.5	38.5	39.6	40.2	40.4	39.4
77°	36.9	36.9	37.8	38.3	38.5	37.7
77.5°	35.2	35.1	36.1	36.6	36.8	36.0
78°	33.6	33.5	34.5	34.8	35.0	34.4
78.5°	32.0	31.8	32.8	33.1	33.4	32.7
79°	30.5	30.2	31.1	31.4	31.7	31.0
79.5°	28.8	28.6	29.4	29.7	30.0	29.5
80°	27.2	27.0	27.7	28.2	28.4	27.8
80.5°	25.8	25.4	26.2	26.4	26.8	26.3
81°	24.2	24.0	24.6	24.9	25.2	24.7
81.5°	22.7	22.5	23.2	23.4	23.7	23.4
82°	21.4	21.1	21.7	21.9	22.2	21.9
82.5°	20.0	19.6	20.2	20.3	20.7	20.4
83°	18.5	18.1	18.7	18.9	19.2	19.0
83.5°	17.1	16.6	17.1	17.3	17.7	17.5
84°	15.7	15.1	15.6	15.8	16.2	16.0
84.5°	14.3	13.7	14.2	14.4	14.7	14.7
85°	12.9	12.3	12.7	12.9	13.3	13.2
85.5°	11.5	10.9	11.2	11.6	11.8	11.9
86°	10.2	9.6	9.9	10.1	10.4	10.5
86.5°	8.9	8.1	8.4	8.6	9.0	9.2
87°	7.4	6.8	7.0	7.2	7.7	8.0
87.5°	6.0	5.4	5.7	5.9	6.3	6.7
88°	4.8	3.8	4.2	4.5	4.9	5.5
88.5°	3.2	2.5	2.7	2.9	3.6	4.2
89°	2.0	1.6	1.6	1.8	2.4	3.0
89.5°	1.0	1.1	1.0	1.2	1.5	1.9



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.6	0.9	0.7	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	0.5	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: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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	0.7	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: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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	0.9	0.8
138°	0.5	0.5	0.7	0.7	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	0.7
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	1.1
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	0.9
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°	0.5	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	0.9	1.1
150.5°	0.7	0.6	0.9	0.8	0.8	0.9
151°	0.7	0.8	0.9	0.8	0.8	0.9
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	0.9	0.9
153°	0.5	0.8	0.9	0.8	1.1	0.9
153.5°	0.7	0.9	0.9	0.8	1.0	0.8
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	0.9
155.5°	0.9	0.8	0.9	0.8	1.1	0.9
156°	0.7	0.8	0.9	0.9	1.0	0.9
156.5°	0.7	0.9	0.9	0.9	1.0	0.9
157°	0.7	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P473753

CATALOG NUMBER: HLB4069BLE40AWH-3500K

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)