

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P417436

Luminaire Tested: **SMD6R69SWH - 5000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2007930C001)
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R69SWH - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 803.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

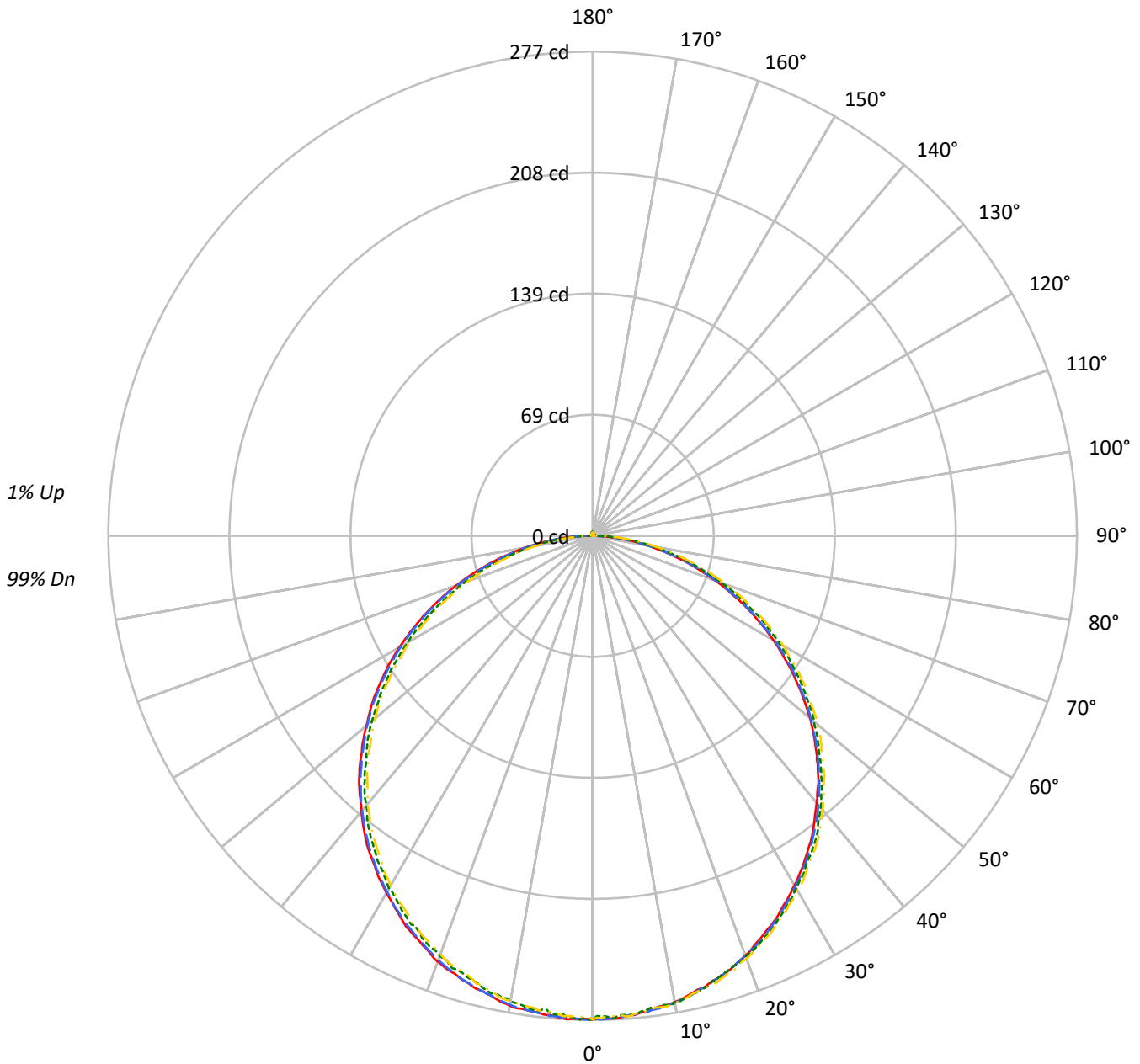
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101				99																
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85				83																
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71				68																
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60				57																
4	82	70	61	54	80	68	60	54	66	58	53	63	57	52	61	56	51				49																
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44				42																
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39				37																
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35				33																
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	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	38	30	26	37	30	25	36	30	25				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15174	15174	15174	15174
5°	15144	15106	15155	15111
10°	15074	15091	15197	15058
15°	14966	14977	15136	14972
20°	14905	14940	15121	14923
25°	14777	14892	15037	14850
30°	14616	14743	14933	14749
35°	14469	14663	14857	14609
40°	14277	14527	14720	14406
45°	14071	14304	14622	14203
50°	13850	14098	14405	14046
55°	13476	13878	14231	13763
60°	13080	13552	13990	13387
65°	12582	13114	13672	12985
70°	11957	12598	13320	12438
75°	11078	11861	12814	11777
80°	9944	11018	12249	10923
85°	8114	10190	12328	10064



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	3.2
10°-20°	74.7	9.3
20°-30°	113.1	14.1
30°-40°	136.7	17.0
40°-50°	142.2	17.7
50°-60°	129.2	16.1
60°-70°	99.7	12.4
70°-80°	59.3	7.4
80°-90°	18.1	2.3
90°-100°	0.4	0.1
100°-110°	0.5	0.1
110°-120°	0.6	0.1
120°-130°	0.8	0.1
130°-140°	0.8	0.1
140°-150°	0.7	0.1
150°-160°	0.6	0.1
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	213.9	26.6
0°-40°	350.6	43.6
0°-60°	622.0	77.4
0°-90°	799.1	99.4
90°-120°	1.5	0.2
90°-150°	3.7	0.5
90°-180°	5.0	0.6
0°-180°	803.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	277	277	277	277	277	
5°	275	274	275	275	275	26
15°	264	264	267	264	264	75
25°	244	246	249	246	244	112
35°	216	219	222	218	216	135
45°	182	184	189	183	182	140
55°	141	145	149	144	141	126
65°	97	101	105	100	97	96
75°	52	56	60	56	52	55
85°	13	16	20	16	13	14
90°	0	0	3	1	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	1	1	0	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	2	1	1	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8	276.8
0.5°	276.4	276.0	276.5	275.1	274.9	275.2	275.7	275.8	276.5	276.3	276.8
1°	276.5	276.2	276.8	275.2	274.8	275.4	276.2	275.0	276.4	276.5	276.8
1.5°	276.4	276.2	276.5	274.8	275.0	275.7	275.2	275.0	276.5	276.1	276.5
2°	276.3	275.7	276.5	274.8	275.6	275.5	275.5	274.9	276.6	276.0	276.3
2.5°	276.4	275.6	276.3	274.6	276.5	274.8	275.1	274.9	276.6	275.7	276.5
3°	276.4	275.4	276.1	274.4	275.0	275.5	275.9	274.2	277.1	275.5	276.3
3.5°	275.8	275.2	275.8	274.4	274.7	274.5	274.9	274.2	276.6	275.4	276.3
4°	275.6	275.0	275.3	274.8	274.9	273.7	275.8	275.1	276.4	275.1	276.0
4.5°	275.2	274.8	275.1	274.4	275.1	272.8	275.5	274.9	275.6	274.8	275.7
5°	275.2	274.6	274.9	273.8	274.5	272.7	274.5	274.7	275.4	274.5	275.8
5.5°	274.5	274.0	274.6	273.6	274.3	273.0	274.6	274.1	275.4	274.2	275.4
6°	274.0	273.6	274.5	273.3	273.2	273.0	274.4	274.8	275.2	274.1	275.1
6.5°	274.2	273.4	274.2	273.0	273.0	273.0	273.4	273.7	274.6	274.0	274.8
7°	273.5	272.8	273.4	272.6	272.1	273.1	273.4	273.8	274.4	273.6	274.5
7.5°	273.0	272.7	273.3	272.3	272.3	271.9	272.3	273.6	274.3	273.2	274.2
8°	272.1	272.4	273.2	272.3	272.4	272.6	272.6	272.7	274.0	272.9	273.9
8.5°	271.9	271.8	272.6	271.8	271.3	271.2	272.6	271.8	273.6	272.6	273.5
9°	271.9	271.3	272.1	271.2	271.8	270.6	272.7	271.6	273.8	272.6	273.2
9.5°	271.5	270.9	271.6	270.8	272.2	271.6	271.6	271.4	273.6	272.0	273.0
10°	270.8	270.4	271.2	270.4	271.1	270.2	271.1	271.1	273.0	271.8	272.4
10.5°	270.4	269.6	270.7	269.8	271.3	270.0	271.2	270.9	272.3	271.3	271.9
11°	269.7	269.1	270.0	269.4	270.2	269.5	269.8	270.2	271.9	270.8	271.4
11.5°	269.0	268.4	269.2	268.6	270.0	268.7	269.8	269.6	271.1	270.5	270.7
12°	268.2	268.1	269.0	268.1	268.8	269.2	268.7	269.2	270.3	269.8	270.1
12.5°	267.4	267.0	268.2	267.0	268.6	267.9	267.9	269.1	269.4	269.2	269.4
13°	266.5	266.0	267.1	265.9	267.5	267.2	267.7	267.9	268.9	268.3	269.0
13.5°	266.3	265.8	266.5	266.1	267.0	266.4	266.6	267.5	268.1	267.8	268.2
14°	266.0	265.2	266.2	265.3	266.4	265.2	266.6	266.4	267.8	267.2	267.7
14.5°	264.8	264.2	265.1	264.2	265.8	265.2	265.5	265.9	267.4	266.3	266.8
15°	263.7	263.5	264.4	263.5	263.9	264.9	265.4	265.8	266.7	265.8	266.2
15.5°	263.4	262.5	263.5	263.1	263.4	264.4	265.4	265.0	265.7	265.1	265.7
16°	262.8	261.9	263.0	262.6	262.8	263.7	264.0	264.7	265.2	264.6	264.9
16.5°	262.1	261.1	262.1	261.8	261.4	262.6	263.5	264.3	264.6	263.8	264.3
17°	261.2	259.9	261.2	260.5	260.9	261.9	262.4	263.4	263.6	262.9	263.4
17.5°	260.5	259.1	260.6	259.8	260.2	261.0	262.1	262.4	262.7	262.2	262.7
18°	259.5	258.0	259.5	258.9	259.1	259.7	261.4	261.7	262.2	261.1	261.7
18.5°	258.4	257.0	258.4	257.7	258.7	258.7	260.6	260.8	261.7	260.2	261.1
19°	257.3	255.9	257.4	256.7	258.2	258.0	258.8	260.2	260.9	259.4	260.0
19.5°	256.6	255.2	256.5	255.9	257.5	256.6	258.1	258.6	259.9	258.5	259.2
20°	255.5	253.7	255.3	254.9	256.1	256.1	257.6	257.6	259.2	257.6	258.3
20.5°	254.7	252.9	254.4	253.9	255.3	255.1	256.6	256.7	258.4	256.6	257.4
21°	253.4	252.1	253.6	252.7	254.6	253.8	255.4	255.7	257.0	256.0	256.2



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	249.9	248.9	250.7	249.9	251.5	251.2	252.4	252.7	253.7	252.7	253.0
23°	248.6	247.8	249.4	248.9	250.2	249.4	251.2	251.6	252.5	251.7	252.0
23.5°	247.4	246.6	248.4	247.9	249.3	249.8	250.2	250.6	251.5	250.7	251.0
24°	246.3	245.7	247.2	246.8	248.8	247.5	249.4	249.5	250.7	249.7	249.8
24.5°	245.5	244.6	246.1	245.7	247.5	247.4	248.1	248.6	249.6	248.7	248.7
25°	244.3	243.1	244.8	244.4	246.2	246.3	246.8	247.3	248.6	247.7	247.6
25.5°	243.1	241.9	243.6	243.2	244.8	245.3	246.0	246.0	247.8	246.5	246.7
26°	241.9	241.3	242.2	242.2	243.3	244.3	244.2	245.5	246.4	245.2	245.7
26.5°	240.3	239.6	241.1	241.1	242.2	243.1	243.2	244.3	245.0	244.0	244.3
27°	238.9	238.2	239.8	239.9	240.9	241.3	242.0	243.0	243.6	242.8	243.0
27.5°	237.5	237.2	238.6	238.5	240.0	240.0	240.9	241.8	242.2	241.6	241.7
28°	236.4	235.6	237.2	237.1	238.6	238.9	239.2	240.4	241.1	240.4	240.6
28.5°	235.1	234.6	236.0	235.7	237.4	237.7	238.1	239.0	239.5	239.1	239.3
29°	233.7	233.5	234.4	234.3	235.9	236.5	237.2	238.0	238.3	237.8	238.1
29.5°	232.2	232.0	233.1	233.1	234.3	234.7	235.9	236.8	237.1	236.6	236.5
30°	230.9	230.5	231.7	231.8	232.9	233.7	234.3	235.5	235.9	235.2	235.2
30.5°	229.7	229.2	230.6	230.9	231.5	232.3	232.9	234.0	234.5	234.0	233.8
31°	228.2	228.1	229.3	229.1	230.1	231.2	232.1	232.4	233.1	232.6	232.6
31.5°	226.7	226.8	227.9	227.7	229.1	229.9	230.8	230.9	231.9	231.2	231.0
32°	225.4	225.0	226.0	226.3	228.0	228.2	229.0	229.6	230.6	229.8	229.7
32.5°	224.0	223.4	224.8	224.9	226.1	226.3	227.7	228.4	229.3	228.5	228.3
33°	222.3	222.0	223.5	223.2	224.4	225.2	226.1	226.7	227.7	227.1	227.0
33.5°	220.7	220.7	221.9	221.6	223.0	223.1	224.8	225.0	226.1	225.7	225.5
34°	219.3	219.2	220.4	220.0	221.7	222.0	223.1	224.0	224.7	224.4	224.1
34.5°	217.7	217.7	218.9	218.5	220.9	220.2	221.8	222.5	223.3	222.8	222.6
35°	216.2	216.1	217.4	217.0	219.1	218.8	220.8	221.1	222.0	221.2	221.1
35.5°	214.8	214.7	215.8	215.4	217.5	217.8	219.3	219.6	220.6	219.7	219.7
36°	213.2	213.2	214.2	213.8	216.4	216.3	217.8	217.8	219.2	218.3	218.2
36.5°	211.5	211.5	212.7	212.4	215.0	214.6	216.5	216.1	217.7	217.0	216.5
37°	209.8	209.8	211.0	210.8	213.4	212.9	215.0	214.6	216.1	215.3	214.9
37.5°	208.0	208.1	209.3	209.3	211.7	211.1	213.2	212.8	214.3	213.7	213.2
38°	206.1	206.2	207.7	207.5	209.4	209.6	211.5	211.4	212.6	211.6	211.6
38.5°	204.3	204.5	205.9	206.0	207.6	208.5	210.0	209.9	211.0	209.9	210.1
39°	202.7	202.9	204.3	204.2	206.0	206.7	208.1	208.0	209.3	208.3	208.6
39.5°	201.1	201.3	202.8	202.5	204.7	205.0	206.3	206.3	207.4	206.7	206.8
40°	199.5	199.2	200.9	200.8	203.0	203.4	204.6	204.9	205.7	205.0	205.0
40.5°	197.9	197.8	198.9	199.1	201.3	201.8	203.0	203.2	203.6	203.3	203.2
41°	195.9	195.9	197.4	197.4	199.3	199.9	201.1	201.3	202.2	201.5	201.8
41.5°	194.2	194.2	195.5	195.7	197.4	198.1	199.7	199.7	200.6	199.8	199.9
42°	192.7	192.2	193.7	193.9	195.9	196.1	197.6	197.9	199.1	198.1	198.2
42.5°	191.3	190.8	192.0	192.0	193.9	194.2	195.6	196.2	197.5	196.5	196.3
43°	189.3	188.9	190.0	190.4	192.2	192.6	193.7	194.5	195.7	194.8	194.5
43.5°	187.4	186.9	188.1	188.5	190.1	190.8	192.3	192.6	194.1	193.0	192.8



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	181.5	181.4	182.6	182.7	184.5	185.2	186.6	186.9	188.6	187.6	187.1
45.5°	179.8	179.6	180.6	180.9	182.5	183.3	184.8	185.0	186.5	185.6	185.3
46°	177.9	177.5	178.5	179.1	180.4	181.7	182.9	183.3	184.6	183.9	183.6
46.5°	175.9	175.7	176.6	177.3	178.4	180.1	180.8	181.2	182.3	182.1	181.6
47°	174.0	173.6	174.8	175.2	177.0	177.8	178.9	179.4	180.5	180.1	179.7
47.5°	172.1	171.5	172.9	173.3	174.8	175.9	177.5	177.4	178.8	178.1	177.6
48°	170.2	169.7	170.9	171.2	173.1	174.0	175.5	175.9	176.9	176.3	175.7
48.5°	168.3	167.6	168.8	169.1	171.4	172.4	174.3	174.0	174.8	174.4	173.7
49°	166.4	165.8	166.9	167.1	169.3	170.6	171.6	172.0	173.1	172.4	171.9
49.5°	164.2	163.8	164.9	165.3	167.0	168.5	169.8	170.4	171.0	170.4	170.1
50°	162.4	162.0	163.0	163.4	165.3	166.6	167.6	168.3	168.9	168.5	168.2
50.5°	160.1	159.9	161.1	161.3	163.6	164.8	165.8	166.5	166.8	166.4	166.4
51°	158.0	157.8	159.2	159.2	161.5	162.7	164.2	164.5	165.1	164.6	164.1
51.5°	155.8	155.8	157.2	157.1	159.6	160.9	161.8	162.4	163.1	162.6	162.3
52°	153.9	153.8	155.0	155.2	157.6	158.7	159.5	160.3	161.3	160.9	160.4
52.5°	151.5	151.9	152.8	153.1	155.2	156.5	157.4	158.1	159.3	159.0	158.3
53°	149.6	149.8	150.6	150.9	153.2	154.6	155.6	156.4	157.3	157.0	156.1
53.5°	147.6	147.6	148.4	148.8	151.1	152.6	153.5	154.8	155.5	154.9	154.1
54°	145.3	145.5	146.5	146.8	148.9	150.3	151.6	152.7	153.3	152.9	151.9
54.5°	143.1	143.1	144.5	144.7	147.2	148.5	149.9	150.4	151.3	150.6	149.9
55°	141.0	141.0	142.4	142.8	145.2	146.1	147.8	148.6	148.9	148.5	148.0
55.5°	139.1	139.2	140.1	140.5	142.9	143.9	145.3	146.3	146.8	146.5	145.5
56°	136.9	136.9	138.0	138.2	140.7	141.9	143.3	143.9	144.7	144.4	143.6
56.5°	134.6	134.7	135.9	136.2	138.6	139.9	141.3	141.6	142.7	142.0	141.5
57°	132.3	132.2	133.6	133.9	136.4	137.4	139.1	139.7	140.6	139.9	139.4
57.5°	130.1	130.1	131.5	131.7	134.4	135.3	137.0	137.3	138.7	137.7	137.2
58°	128.0	127.9	129.3	129.6	132.4	133.3	134.4	135.4	136.4	135.6	135.0
58.5°	125.9	125.6	127.2	127.4	130.2	131.2	132.1	133.3	134.2	133.3	132.7
59°	123.8	123.5	124.9	125.3	127.8	129.1	130.0	131.1	132.0	131.1	130.7
59.5°	121.5	121.4	122.6	123.2	125.7	126.8	128.1	129.0	130.0	129.0	128.6
60°	119.3	119.5	120.4	121.0	123.6	124.4	126.3	126.9	127.6	126.8	126.5
60.5°	117.2	117.2	118.0	118.7	121.4	122.4	123.7	124.6	125.2	124.5	124.3
61°	114.8	114.9	115.8	116.4	119.2	120.4	121.4	122.5	123.0	122.4	122.0
61.5°	112.8	112.7	113.6	114.2	116.6	117.9	119.2	120.4	120.8	120.3	119.6
62°	110.4	110.5	111.3	112.0	114.7	115.9	117.1	118.1	118.7	118.1	117.5
62.5°	108.2	108.3	108.9	109.7	112.4	113.6	114.7	115.5	116.5	116.0	115.3
63°	105.8	105.9	106.7	107.5	110.6	111.2	112.8	113.4	114.1	113.8	112.9
63.5°	103.8	103.6	104.5	105.3	108.3	109.0	110.5	111.2	112.0	111.5	110.8
64°	101.6	101.3	102.3	102.9	106.0	106.5	108.3	109.0	109.7	109.2	108.6
64.5°	99.3	99.2	100.0	100.7	103.5	104.4	105.8	106.5	107.6	107.1	106.5
65°	97.0	96.8	97.7	98.5	101.1	102.0	103.6	104.4	105.4	104.9	104.3
65.5°	95.1	94.9	95.6	96.2	98.9	100.0	101.4	102.1	103.1	102.7	102.0
66°	92.8	92.4	93.3	94.2	96.8	97.6	99.3	100.0	100.8	100.3	99.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	85.7	86.0	86.5	87.3	90.1	91.6	92.7	93.3	94.2	93.8	93.2
68°	83.6	83.7	84.2	85.0	88.0	89.1	90.3	91.0	91.9	91.4	91.0
68.5°	81.3	81.4	82.0	82.8	85.6	86.7	88.0	89.1	89.7	89.2	88.6
69°	79.0	79.2	79.9	80.5	83.3	84.4	85.9	86.7	87.5	86.8	86.3
69.5°	76.7	77.0	77.6	78.2	80.8	82.1	83.4	84.6	85.3	84.4	84.2
70°	74.6	74.6	75.2	75.9	78.6	79.6	81.2	82.4	83.1	82.2	81.9
70.5°	72.1	72.6	73.1	73.7	76.3	77.5	79.0	80.1	80.9	80.0	79.5
71°	69.7	69.9	70.6	71.4	74.2	75.1	76.7	77.7	78.5	77.8	77.2
71.5°	67.5	67.7	68.4	69.2	71.8	72.8	74.4	75.3	76.3	75.5	74.9
72°	65.4	65.7	66.0	66.9	69.3	70.7	72.1	73.1	73.9	73.3	72.7
72.5°	63.2	63.3	63.8	64.6	67.1	68.3	70.0	70.8	71.7	71.2	70.4
73°	60.9	61.0	61.5	62.4	64.9	66.1	67.6	68.6	69.3	68.9	68.1
73.5°	58.8	58.9	59.5	60.1	62.8	63.9	65.2	66.3	67.2	66.6	65.9
74°	56.7	56.6	57.2	58.1	60.6	61.7	62.9	64.2	64.9	64.3	63.6
74.5°	54.6	54.6	55.2	55.9	58.6	59.5	60.8	61.8	62.6	62.2	61.4
75°	52.3	52.5	52.8	53.6	56.0	57.3	58.8	59.7	60.5	60.0	59.3
75.5°	50.0	50.1	50.8	51.5	53.9	55.4	56.5	57.4	58.5	57.9	57.4
76°	47.9	47.8	48.6	49.3	51.8	53.0	54.4	55.2	56.2	55.6	55.0
76.5°	46.0	45.8	46.4	47.2	49.8	50.9	52.2	53.2	53.9	53.4	52.7
77°	43.7	43.6	44.3	45.0	47.5	48.8	50.1	50.9	51.7	51.3	50.6
77.5°	41.8	41.7	42.2	42.8	45.4	46.7	48.1	48.9	49.7	49.2	48.5
78°	39.4	39.4	40.1	40.8	43.3	44.4	45.9	46.7	47.5	47.1	46.4
78.5°	37.4	37.4	38.0	38.7	41.2	42.3	43.6	44.6	45.2	44.9	44.3
79°	35.5	35.5	35.9	36.5	39.1	40.2	41.7	42.4	43.1	42.8	42.1
79.5°	33.5	33.4	33.8	34.7	37.1	38.2	39.4	40.5	40.8	40.8	40.0
80°	31.5	31.4	31.7	32.6	34.9	36.1	37.3	38.3	38.8	38.7	37.9
80.5°	29.5	29.3	29.8	30.5	32.8	34.1	35.0	36.3	36.9	36.7	36.0
81°	27.5	27.4	27.8	28.6	31.0	32.2	33.2	34.2	34.9	34.6	33.9
81.5°	25.6	25.5	25.8	26.5	28.9	30.2	31.4	32.4	32.9	32.6	31.9
82°	23.9	23.8	24.2	24.9	27.0	28.2	29.2	30.4	30.8	30.7	29.9
82.5°	22.0	21.9	22.3	22.9	25.1	26.2	27.4	28.5	28.8	28.7	28.1
83°	20.1	20.1	20.5	21.1	23.3	24.2	25.6	26.8	26.9	26.8	26.2
83.5°	18.2	18.2	18.7	19.3	21.5	22.7	23.6	24.5	25.1	24.9	24.2
84°	16.5	16.3	16.7	17.3	19.8	20.9	22.0	22.9	23.3	23.2	22.6
84.5°	14.8	14.6	15.0	15.6	18.1	19.1	20.2	21.3	21.5	21.4	20.8
85°	12.9	12.8	13.2	13.9	16.2	17.3	18.4	19.2	19.6	19.6	18.9
85.5°	11.3	11.2	11.5	12.1	14.3	15.5	16.5	17.4	18.0	17.8	17.2
86°	9.5	9.5	9.8	10.4	12.6	13.9	14.8	15.6	16.2	16.1	15.3
86.5°	8.0	7.6	8.2	8.8	10.9	12.1	13.1	13.9	14.2	14.2	13.6
87°	6.3	6.2	6.6	7.2	9.3	10.4	11.4	12.1	12.7	12.4	11.9
87.5°	4.9	4.9	5.1	6.0	7.6	8.9	9.8	10.4	10.8	10.8	10.2
88°	3.4	3.4	3.7	4.2	6.1	7.3	8.1	8.9	9.2	9.4	8.6
88.5°	1.8	1.7	1.9	2.4	4.6	5.8	6.6	7.3	7.5	7.6	7.0



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.1	0.5	0.4	0.4	0.7	1.9	2.8	3.0	2.8	2.4
90.5°	0.5	0.1	0.4	0.3	0.4	0.3	0.5	0.8	1.2	1.3	1.0
91°	0.4	0.1	0.4	0.4	0.4	0.4	0.4	0.1	0.3	0.5	0.4
91.5°	0.4	0.1	0.4	0.4	0.3	0.3	0.4	0.1	0.3	0.4	0.3
92°	0.4	0.1	0.4	0.5	0.3	0.3	0.3	0.1	0.3	0.4	0.3
92.5°	0.4	0.1	0.4	0.2	0.3	0.3	0.3	0.1	0.3	0.3	0.3
93°	0.4	0.1	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
93.5°	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
94°	0.4	0.2	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
94.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.3	0.3
95°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.3	0.3
95.5°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.3	0.3
96°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.4	0.3
96.5°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.4	0.3
97°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.4	0.3
97.5°	0.4	0.2	0.4	0.1	0.4	0.4	0.3	0.1	0.3	0.5	0.3
98°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.4	0.3
98.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.2	0.3	0.4	0.3
99°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.3	0.3	0.4	0.3
99.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.4	0.4	0.3	0.4	0.4
100°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.3	0.3	0.4	0.4
100.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.5	0.3	0.3	0.4	0.4
101°	0.4	0.2	0.4	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.4
101.5°	0.4	0.2	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.4
102°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.4	0.3	0.4	0.4
102.5°	0.4	0.2	0.4	0.5	0.3	0.5	0.4	0.5	0.3	0.4	0.4
103°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.3	0.4	0.4
103.5°	0.4	0.2	0.4	0.4	0.3	0.6	0.4	0.5	0.4	0.4	0.4
104°	0.4	0.2	0.4	0.4	0.3	0.6	0.4	0.5	0.4	0.4	0.4
104.5°	0.4	0.2	0.4	0.4	0.3	0.6	0.4	0.5	0.4	0.4	0.4
105°	0.4	0.2	0.4	0.4	0.3	0.6	0.4	0.5	0.4	0.4	0.4
105.5°	0.4	0.3	0.4	0.4	0.3	0.6	0.4	0.5	0.4	0.4	0.4
106°	0.4	0.2	0.4	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.4
106.5°	0.4	0.2	0.4	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.5
107°	0.4	0.4	0.4	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5
107.5°	0.4	0.3	0.4	0.5	0.6	0.7	0.5	0.6	0.5	0.5	0.6
108°	0.4	0.3	0.4	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.6
108.5°	0.4	0.3	0.4	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.5
109°	0.4	0.3	0.4	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.6
109.5°	0.4	0.3	0.5	0.6	0.6	0.6	0.5	0.6	0.5	0.5	0.6
110°	0.4	0.3	0.5	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.6
110.5°	0.5	0.4	0.5	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.6
111°	0.5	0.4	0.5	0.6	0.6	0.7	0.5	0.6	0.6	0.5	0.6



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.7	0.6	0.6	0.6	0.7	0.5	0.6	0.6	0.5	0.6
113°	0.7	0.7	0.6	0.7	0.6	0.7	0.5	0.7	0.6	0.5	0.6
113.5°	0.7	0.7	0.6	0.6	0.6	0.7	0.5	0.7	0.6	0.5	0.6
114°	0.7	0.7	0.6	0.7	0.6	0.7	0.5	0.7	0.7	0.5	0.6
114.5°	0.7	0.9	0.6	0.6	0.6	0.7	0.5	0.7	0.6	0.5	0.6
115°	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.5	0.6
115.5°	0.7	0.8	0.6	0.8	0.6	0.7	0.6	0.7	0.8	0.6	0.6
116°	0.8	0.8	0.6	0.4	0.6	0.7	0.7	0.7	0.7	0.5	0.6
116.5°	0.8	1.0	0.6	0.9	0.6	0.8	0.7	0.7	0.7	0.5	0.6
117°	0.7	1.0	0.8	1.0	0.6	0.8	0.6	0.7	0.7	0.6	0.6
117.5°	1.0	1.0	0.8	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.6
118°	1.0	0.9	0.8	0.9	0.6	0.7	0.7	0.7	0.7	0.6	0.7
118.5°	1.0	1.0	0.8	0.9	0.6	0.8	0.7	0.7	0.7	0.6	0.7
119°	1.0	1.0	0.8	0.5	0.6	0.8	0.7	0.7	0.7	0.6	0.7
119.5°	1.0	1.0	0.8	0.5	0.6	0.8	0.8	0.7	0.7	0.7	0.7
120°	1.0	1.0	0.9	0.6	0.6	0.8	0.8	0.7	0.7	0.8	0.7
120.5°	1.0	1.0	0.9	0.6	0.6	0.8	0.7	0.7	0.7	0.8	0.7
121°	1.0	1.0	0.8	0.7	0.6	0.8	0.7	0.7	0.7	0.8	0.7
121.5°	1.0	1.0	0.8	0.8	0.7	0.8	0.7	0.7	0.8	0.8	0.7
122°	0.8	1.0	0.8	0.8	0.7	0.8	0.7	0.7	0.8	0.8	0.7
122.5°	1.0	0.9	0.8	0.8	0.6	0.8	0.7	0.7	0.8	0.8	0.8
123°	1.1	1.0	0.8	1.0	0.6	0.8	0.7	0.7	0.8	0.7	0.8
123.5°	1.1	1.0	0.8	1.0	0.6	0.8	0.7	0.7	0.8	0.7	0.8
124°	1.2	1.2	0.8	0.8	0.6	0.8	0.7	0.7	0.8	0.7	0.8
124.5°	1.1	1.1	0.8	0.9	0.6	0.8	0.7	0.7	0.8	0.6	0.8
125°	1.2	1.0	0.8	0.9	0.6	0.8	0.7	0.7	0.8	0.7	0.8
125.5°	1.0	1.2	0.8	1.0	0.6	0.8	0.8	0.7	0.9	0.7	0.8
126°	1.1	1.1	0.8	0.9	0.6	0.8	0.8	0.7	0.9	0.8	0.8
126.5°	1.2	1.0	0.8	1.0	0.7	0.8	0.9	0.7	0.8	0.8	0.8
127°	1.1	1.0	0.8	1.0	0.7	0.8	0.9	0.7	0.8	0.7	0.8
127.5°	1.1	1.1	0.9	1.0	0.6	0.8	0.8	0.7	0.9	0.8	0.8
128°	1.2	1.1	0.9	1.0	0.6	0.8	0.8	0.7	0.9	0.9	0.8
128.5°	1.2	1.0	0.9	1.0	0.6	1.0	0.8	0.7	0.9	0.9	0.8
129°	1.2	1.0	1.0	1.0	0.7	1.0	0.8	0.7	1.0	1.0	0.8
129.5°	1.2	1.2	1.0	1.0	0.7	0.9	0.8	0.8	0.9	0.9	0.8
130°	1.2	1.0	1.0	1.0	0.8	0.9	0.8	0.7	1.1	0.9	0.8
130.5°	1.2	1.0	1.0	1.0	0.8	0.9	0.8	0.8	0.6	0.8	0.8
131°	1.2	1.0	1.0	0.8	0.8	0.9	0.9	0.8	0.7	0.8	0.8
131.5°	1.2	1.2	1.0	0.9	0.8	0.9	0.8	0.8	0.6	0.9	0.8
132°	1.2	1.1	1.0	1.0	0.8	0.9	1.0	0.8	0.6	0.9	0.8
132.5°	1.2	1.2	1.0	0.8	0.8	0.9	1.0	0.8	0.8	0.8	0.8
133°	1.3	1.2	1.0	0.9	0.8	0.9	1.0	0.8	0.8	0.8	0.8
133.5°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	0.9	0.8	0.8



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.3	1.2	1.0	0.8	0.8	0.9	1.0	0.8	1.0	1.0	0.8
135.5°	1.3	1.2	1.0	0.9	0.8	0.9	1.0	0.9	1.0	0.9	0.9
136°	1.3	1.2	1.0	0.9	0.9	0.9	1.0	0.9	1.0	1.0	0.9
136.5°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
137°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
137.5°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
138°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
138.5°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
139°	1.3	1.2	1.1	1.0	0.9	1.0	1.0	0.8	1.0	0.9	1.0
139.5°	1.3	1.2	1.2	1.0	0.9	0.9	1.0	0.8	0.9	1.0	1.0
140°	1.3	1.2	1.2	1.1	0.9	0.9	1.0	0.8	0.9	1.0	1.0
140.5°	1.3	1.2	1.1	1.0	0.9	1.0	1.0	0.8	0.9	1.0	1.0
141°	1.3	1.2	1.1	1.1	0.9	1.0	1.1	0.8	0.9	0.8	1.0
141.5°	1.3	1.2	1.1	1.1	0.9	1.0	1.2	0.8	0.9	1.0	1.0
142°	1.3	1.2	1.1	1.0	0.9	1.0	1.1	0.8	0.9	0.9	1.0
142.5°	1.3	1.2	1.1	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.0
143°	1.3	1.2	1.2	1.1	0.9	1.0	1.1	0.9	0.9	1.0	1.0
143.5°	1.3	1.2	1.2	1.0	0.9	1.0	1.1	0.9	1.1	1.1	1.0
144°	1.3	1.2	1.2	1.0	0.9	1.0	1.1	0.9	1.1	1.2	1.0
144.5°	1.3	1.2	1.3	1.2	0.9	1.0	1.0	1.0	1.0	1.2	1.0
145°	1.3	1.2	1.3	1.2	0.9	1.0	1.1	1.0	1.0	1.1	1.0
145.5°	1.3	1.2	1.3	1.1	0.9	1.0	1.2	1.0	1.0	1.2	1.1
146°	1.3	1.2	1.3	1.0	0.9	1.0	1.2	1.0	1.1	1.2	1.2
146.5°	1.3	1.2	1.3	1.0	0.9	1.0	1.2	1.0	1.1	1.1	1.1
147°	1.3	1.2	1.3	1.2	0.9	1.0	1.2	1.2	1.1	1.2	1.2
147.5°	1.3	1.2	1.3	1.2	0.9	1.0	1.2	1.2	1.1	1.2	1.2
148°	1.3	1.2	1.3	1.1	0.9	1.0	1.2	1.1	1.1	1.2	1.1
148.5°	1.3	1.2	1.3	1.1	0.9	1.0	1.3	1.1	1.1	1.1	1.1
149°	1.3	1.2	1.3	1.1	0.9	1.0	1.3	1.1	1.2	1.2	1.2
149.5°	1.3	1.2	1.3	1.1	1.0	1.0	1.2	1.1	1.2	1.2	1.3
150°	1.3	1.2	1.3	1.1	1.0	1.0	1.2	1.1	1.2	1.2	1.3
150.5°	1.3	1.2	1.3	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.3
151°	1.3	1.2	1.3	1.1	1.0	1.0	1.2	1.1	1.3	1.3	1.3
151.5°	1.3	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.3	1.3
152°	1.3	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.3	1.3
152.5°	1.3	1.2	1.3	1.1	1.1	0.8	1.3	1.1	1.2	1.4	1.3
153°	1.3	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.4	1.3
153.5°	1.3	1.2	1.3	1.1	1.1	0.9	1.2	1.1	1.3	1.4	1.3
154°	1.3	1.2	1.3	1.1	1.1	1.8	1.4	1.1	1.3	1.4	1.3
154.5°	1.3	1.2	1.3	1.1	1.1	1.2	1.4	1.1	1.3	1.5	1.3
155°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.3	1.5	1.4
155.5°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.5
156°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.5	1.5	1.5
158°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.5	1.5	1.5
158.5°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.2	1.6	1.5	1.5
159°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.5	1.5	1.5
159.5°	1.3	1.2	1.3	1.1	1.1	1.3	1.3	1.1	1.7	1.6	1.5
160°	1.3	1.2	1.3	1.1	1.1	1.3	1.3	1.4	1.7	1.6	1.5
160.5°	1.4	1.3	1.3	1.1	1.1	1.4	1.3	1.3	1.7	1.6	1.5
161°	1.3	1.3	1.3	1.1	1.1	1.3	1.3	1.5	1.7	1.7	1.5
161.5°	1.3	1.2	1.3	1.1	1.1	1.3	1.4	1.5	1.8	1.7	1.5
162°	1.4	1.2	1.3	1.1	1.1	1.4	1.4	1.5	1.9	1.7	1.5
162.5°	1.4	1.3	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.7	1.5
163°	1.4	1.3	1.3	1.1	1.1	1.4	1.5	1.5	1.5	1.6	1.5
163.5°	1.4	1.4	1.3	1.1	1.1	1.4	1.5	1.5	1.6	1.6	1.5
164°	1.4	1.3	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.5
164.5°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.5
165°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.5
165.5°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.5
166°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.5
166.5°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.6	1.6	1.5
167°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	1.6	1.6	1.5
167.5°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	2.0	1.6	1.5
168°	1.4	1.5	1.3	1.1	1.1	1.5	1.4	1.5	2.2	1.6	1.5
168.5°	1.4	1.5	1.3	1.1	1.2	1.5	1.4	1.5	1.7	1.6	1.5
169°	1.4	1.5	1.3	1.1	1.2	1.5	1.4	1.5	1.7	1.6	1.5
169.5°	1.4	1.5	1.3	1.1	1.2	1.5	1.4	1.5	1.6	1.6	1.5
170°	1.4	1.5	1.3	1.1	1.2	1.5	1.4	1.5	1.6	1.6	1.5
170.5°	1.5	1.5	1.3	1.1	1.4	1.5	1.4	1.5	1.6	1.6	1.5
171°	1.5	1.5	1.3	1.1	1.4	1.7	1.4	1.5	1.6	1.7	1.5
171.5°	1.5	1.5	1.3	1.1	1.4	1.6	1.4	1.5	1.6	1.7	1.5
172°	1.5	1.5	1.3	1.1	1.4	1.6	1.4	1.5	1.6	1.5	1.5
172.5°	1.5	1.5	1.3	1.1	1.5	1.6	1.6	1.5	1.6	1.5	1.5
173°	1.5	1.5	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.5	1.5
173.5°	1.5	1.5	1.3	1.1	1.5	1.6	1.5	1.5	1.6	1.5	1.5
174°	1.5	1.5	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.5	1.5
174.5°	1.5	1.5	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.5	1.5
175°	1.5	1.5	1.3	1.1	1.5	1.6	1.5	1.5	1.6	1.5	1.5
175.5°	1.5	1.5	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.5	1.5
176°	1.5	1.5	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.5	1.5
176.5°	1.5	1.5	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.5	1.5
177°	1.5	1.5	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.5	1.5
177.5°	1.5	1.5	1.3	1.1	1.1	1.6	1.6	1.6	1.7	1.5	1.5
178°	1.5	1.5	1.3	1.1	1.2	1.6	1.6	1.5	1.7	1.5	1.5
178.5°	1.5	1.5	1.3	1.2	1.1	1.6	1.6	1.5	1.7	1.5	1.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	276.8	276.8	276.8	276.8	276.8	276.8
0.5°	275.3	276.8	275.1	275.0	276.1	276.4
1°	275.4	275.8	275.3	274.7	275.8	276.5
1.5°	275.5	277.0	274.3	275.7	275.6	276.4
2°	275.3	276.5	274.9	275.2	275.0	276.3
2.5°	275.2	275.6	274.9	275.2	274.9	276.4
3°	275.1	276.0	274.8	275.0	275.2	276.4
3.5°	275.0	274.4	273.9	275.3	274.7	275.8
4°	274.6	274.5	274.5	274.5	274.2	275.6
4.5°	274.7	274.7	273.3	273.4	274.3	275.2
5°	274.3	274.6	273.8	273.2	274.3	275.2
5.5°	274.1	272.6	273.6	273.6	273.7	274.5
6°	274.0	272.5	273.7	273.2	273.7	274.0
6.5°	273.6	273.7	273.4	273.4	273.3	274.2
7°	273.2	273.4	272.8	272.3	272.7	273.5
7.5°	272.8	272.9	272.5	272.1	272.4	273.0
8°	272.3	272.5	272.5	271.7	272.3	272.1
8.5°	272.2	271.7	271.8	271.6	271.8	271.9
9°	271.6	271.0	270.4	271.0	271.4	271.9
9.5°	271.3	270.9	268.8	270.9	270.4	271.5
10°	270.9	270.5	269.2	269.8	269.7	270.8
10.5°	270.4	269.2	269.3	270.3	269.2	270.4
11°	269.8	269.4	268.2	269.6	269.0	269.7
11.5°	269.2	268.4	268.9	269.1	268.1	269.0
12°	268.5	267.9	266.9	267.9	268.2	268.2
12.5°	268.2	268.1	265.7	267.8	267.6	267.4
13°	267.5	267.3	265.5	266.3	266.4	266.5
13.5°	266.7	266.4	266.2	265.6	265.4	266.3
14°	266.0	265.3	264.5	264.6	265.1	266.0
14.5°	265.3	264.0	264.3	264.7	264.3	264.8
15°	264.5	263.8	263.0	263.2	263.4	263.7
15.5°	264.0	262.9	262.5	262.1	262.1	263.4
16°	263.1	262.3	261.3	261.0	261.4	262.8
16.5°	262.4	261.0	260.7	260.9	261.0	262.1
17°	261.6	260.4	259.7	259.8	260.6	261.2
17.5°	260.5	260.1	258.5	259.2	259.8	260.5
18°	259.8	260.1	258.1	258.5	258.9	259.5
18.5°	258.8	258.6	256.7	258.1	257.8	258.4
19°	258.1	256.8	255.9	256.9	256.6	257.3
19.5°	257.4	256.5	254.7	256.1	255.5	256.6
20°	256.2	255.8	254.9	254.6	254.4	255.5
20.5°	255.2	254.3	252.4	253.9	253.2	254.7
21°	254.3	253.4	252.7	252.0	252.4	253.4



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	251.1	251.0	248.6	249.6	249.2	249.9
23°	250.1	249.8	248.0	248.7	248.3	248.6
23.5°	249.2	247.8	246.8	247.4	247.3	247.4
24°	247.9	246.6	246.4	246.1	245.9	246.3
24.5°	246.7	245.1	244.5	245.3	244.9	245.5
25°	245.5	245.5	243.9	244.0	243.5	244.3
25.5°	244.6	244.3	243.1	242.4	241.9	243.1
26°	243.4	242.7	241.4	241.0	240.7	241.9
26.5°	242.3	241.6	240.6	239.8	239.6	240.3
27°	241.1	240.5	239.6	238.4	238.2	238.9
27.5°	239.9	238.8	238.4	237.5	237.2	237.5
28°	238.5	237.5	237.1	236.2	235.7	236.4
28.5°	237.4	236.0	235.7	234.8	234.2	235.1
29°	236.0	234.7	234.5	233.8	232.6	233.7
29.5°	234.5	233.5	233.2	232.6	231.7	232.2
30°	233.4	233.0	231.7	231.2	230.3	230.9
30.5°	232.3	231.3	230.3	229.5	229.0	229.7
31°	230.9	229.6	228.7	228.1	227.7	228.2
31.5°	229.1	228.2	227.1	226.8	226.1	226.7
32°	227.9	226.4	224.1	225.2	224.7	225.4
32.5°	226.5	225.3	223.2	223.3	223.3	224.0
33°	224.9	224.1	222.6	221.9	221.7	222.3
33.5°	223.6	223.0	220.5	220.4	219.9	220.7
34°	222.1	221.1	218.8	219.0	218.3	219.3
34.5°	220.5	219.5	218.1	217.4	217.2	217.7
35°	219.1	218.3	216.7	216.0	215.9	216.2
35.5°	217.6	216.4	215.1	214.5	214.3	214.8
36°	216.1	215.3	213.1	213.0	212.5	213.2
36.5°	214.4	213.7	210.7	211.4	210.9	211.5
37°	212.6	212.0	209.4	210.0	209.1	209.8
37.5°	211.1	210.6	208.7	208.6	207.4	208.0
38°	209.6	208.8	206.8	206.9	206.0	206.1
38.5°	208.2	207.1	205.6	204.8	204.5	204.3
39°	206.5	205.1	203.6	203.4	202.8	202.7
39.5°	204.8	203.0	201.6	201.8	201.2	201.1
40°	203.1	201.3	199.9	199.9	199.7	199.5
40.5°	201.5	199.8	197.8	198.1	198.0	197.9
41°	199.8	198.5	196.4	196.2	196.4	195.9
41.5°	197.9	196.8	194.9	194.4	194.3	194.2
42°	196.1	194.9	193.0	192.5	192.3	192.7
42.5°	194.4	193.3	190.9	190.7	190.3	191.3
43°	192.7	191.1	189.6	189.1	188.5	189.3
43.5°	190.8	189.4	188.1	187.4	187.0	187.4



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	185.5	183.2	182.7	181.4	181.3	181.5
45.5°	183.6	181.3	180.7	179.8	179.4	179.8
46°	181.7	179.9	178.9	177.9	177.6	177.9
46.5°	179.8	178.4	176.9	175.6	175.7	175.9
47°	177.7	176.3	174.9	173.7	173.7	174.0
47.5°	175.9	175.0	173.1	172.0	171.9	172.1
48°	173.9	172.8	170.8	170.1	169.8	170.2
48.5°	172.2	170.8	168.3	168.1	167.8	168.3
49°	170.3	169.0	166.6	166.2	165.7	166.4
49.5°	168.4	166.9	165.0	164.2	164.0	164.2
50°	166.5	164.7	163.3	162.5	161.8	162.4
50.5°	164.4	162.6	161.5	160.5	160.0	160.1
51°	162.4	160.6	159.6	158.5	157.9	158.0
51.5°	160.6	158.3	157.4	156.6	155.8	155.8
52°	158.5	156.2	155.3	154.6	153.6	153.9
52.5°	156.3	154.0	153.5	152.5	151.7	151.5
53°	154.2	152.5	151.0	150.2	149.8	149.6
53.5°	152.2	150.4	148.8	148.5	147.4	147.6
54°	150.1	148.4	146.5	146.1	145.5	145.3
54.5°	148.1	145.7	144.4	143.8	143.7	143.1
55°	146.2	144.0	142.2	141.6	141.4	141.0
55.5°	144.0	141.9	140.4	139.5	139.2	139.1
56°	141.7	139.9	138.0	137.4	136.9	136.9
56.5°	139.6	138.0	135.6	135.2	134.6	134.6
57°	137.4	135.6	133.9	132.9	132.6	132.3
57.5°	135.2	133.1	131.3	130.8	130.3	130.1
58°	133.1	131.0	129.5	128.6	128.1	128.0
58.5°	130.9	128.8	127.3	126.6	125.8	125.9
59°	128.9	126.6	125.3	124.8	123.6	123.8
59.5°	126.7	124.4	123.5	122.4	121.6	121.5
60°	124.5	122.1	121.2	120.1	119.1	119.3
60.5°	122.3	120.3	118.5	117.7	116.9	117.2
61°	120.1	118.4	116.1	115.4	114.7	114.8
61.5°	117.8	115.8	114.2	113.2	112.5	112.8
62°	115.7	114.0	111.8	110.9	110.2	110.4
62.5°	113.5	111.5	109.7	108.8	107.7	108.2
63°	111.3	109.2	107.6	106.3	105.7	105.8
63.5°	109.1	106.7	105.2	104.1	103.3	103.8
64°	107.0	104.6	103.1	101.8	101.3	101.6
64.5°	104.8	102.4	100.8	99.6	99.2	99.3
65°	102.6	100.1	98.4	97.5	96.7	97.0
65.5°	100.2	98.0	96.2	95.3	94.7	95.1
66°	98.0	95.6	93.7	93.3	92.5	92.8



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	91.7	88.7	87.8	86.5	85.6	85.7
68°	89.4	86.7	85.3	84.1	83.9	83.6
68.5°	87.0	84.5	83.2	82.0	81.5	81.3
69°	84.8	82.2	81.0	79.9	79.3	79.0
69.5°	82.6	79.9	78.5	77.5	76.7	76.7
70°	80.3	77.6	76.1	75.1	74.5	74.6
70.5°	77.9	75.6	74.2	73.0	72.3	72.1
71°	75.6	73.6	72.0	70.8	70.1	69.7
71.5°	73.3	71.3	69.5	68.5	67.9	67.5
72°	71.1	68.9	67.1	66.4	65.5	65.4
72.5°	68.9	66.7	64.9	64.2	63.4	63.2
73°	66.7	64.3	62.9	61.8	61.1	60.9
73.5°	64.3	61.9	60.8	59.7	58.9	58.8
74°	62.2	59.8	58.4	57.5	56.8	56.7
74.5°	59.9	57.7	56.3	55.4	54.7	54.6
75°	57.9	55.6	54.2	53.2	52.7	52.3
75.5°	55.6	53.4	52.1	50.9	50.3	50.0
76°	53.5	51.3	50.0	48.7	48.1	47.9
76.5°	51.3	49.0	47.8	46.7	45.8	46.0
77°	49.2	46.8	45.7	44.7	43.8	43.7
77.5°	47.0	44.8	43.5	42.4	41.8	41.8
78°	45.0	42.5	41.5	40.5	39.6	39.4
78.5°	42.7	40.5	39.4	38.2	37.7	37.4
79°	40.7	38.5	37.4	36.3	35.8	35.5
79.5°	38.6	36.6	35.2	34.4	34.0	33.5
80°	36.7	34.6	33.3	32.3	31.7	31.5
80.5°	34.8	32.5	31.3	30.3	29.7	29.5
81°	32.7	30.6	29.4	28.3	27.8	27.5
81.5°	30.8	28.7	27.6	26.6	25.9	25.6
82°	28.8	26.8	25.5	24.6	24.1	23.9
82.5°	26.9	24.9	23.8	23.1	22.2	22.0
83°	25.1	23.1	22.0	21.1	20.7	20.1
83.5°	23.3	21.4	20.3	19.4	18.5	18.2
84°	21.5	19.5	18.4	17.5	16.9	16.5
84.5°	19.7	17.8	16.7	15.8	15.2	14.8
85°	18.0	16.0	14.9	14.1	13.3	12.9
85.5°	16.2	14.2	13.2	12.2	11.6	11.3
86°	14.4	12.5	11.5	10.6	10.0	9.5
86.5°	12.8	10.9	10.0	9.1	8.4	8.0
87°	11.0	9.3	8.2	7.5	6.9	6.3
87.5°	9.5	7.7	6.8	6.0	5.2	4.9
88°	7.7	6.2	5.4	4.4	3.7	3.4
88.5°	6.2	4.7	3.9	2.9	2.3	1.8



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.8	0.9	0.6	0.6	0.5	0.5
90.5°	0.7	0.6	0.6	0.5	0.5	0.5
91°	0.3	0.6	0.6	0.5	0.5	0.4
91.5°	0.3	0.5	0.5	0.4	0.3	0.4
92°	0.3	0.5	0.5	0.4	0.3	0.4
92.5°	0.3	0.5	0.5	0.4	0.4	0.4
93°	0.3	0.5	0.5	0.4	0.3	0.4
93.5°	0.3	0.5	0.5	0.4	0.3	0.4
94°	0.3	0.5	0.5	0.4	0.3	0.4
94.5°	0.3	0.5	0.5	0.4	0.3	0.4
95°	0.3	0.5	0.5	0.4	0.3	0.4
95.5°	0.3	0.5	0.5	0.4	0.3	0.4
96°	0.3	0.5	0.5	0.4	0.3	0.4
96.5°	0.3	0.5	0.5	0.4	0.3	0.4
97°	0.3	0.5	0.5	0.4	0.3	0.4
97.5°	0.3	0.5	0.5	0.4	0.3	0.4
98°	0.3	0.5	0.5	0.4	0.3	0.4
98.5°	0.3	0.5	0.5	0.4	0.3	0.4
99°	0.3	0.5	0.5	0.4	0.3	0.4
99.5°	0.3	0.5	0.5	0.4	0.3	0.4
100°	0.3	0.5	0.5	0.4	0.3	0.4
100.5°	0.3	0.5	0.5	0.4	0.3	0.4
101°	0.3	0.5	0.5	0.4	0.3	0.4
101.5°	0.5	0.5	0.5	0.4	0.3	0.4
102°	0.5	0.5	0.5	0.4	0.3	0.4
102.5°	0.4	0.5	0.5	0.4	0.3	0.4
103°	0.5	0.5	0.5	0.4	0.3	0.4
103.5°	0.5	0.5	0.5	0.4	0.3	0.4
104°	0.5	0.5	0.5	0.4	0.3	0.4
104.5°	0.5	0.5	0.5	0.4	0.3	0.4
105°	0.5	0.5	0.5	0.4	0.3	0.4
105.5°	0.5	0.5	0.5	0.4	0.3	0.4
106°	0.5	0.5	0.5	0.4	0.3	0.4
106.5°	0.5	0.5	0.5	0.4	0.3	0.4
107°	0.5	0.5	0.5	0.4	0.3	0.4
107.5°	0.5	0.5	0.5	0.4	0.3	0.4
108°	0.5	0.5	0.5	0.4	0.3	0.4
108.5°	0.5	0.5	0.5	0.4	0.3	0.4
109°	0.5	0.5	0.5	0.4	0.3	0.4
109.5°	0.5	0.5	0.5	0.4	0.3	0.4
110°	0.5	0.5	0.5	0.4	0.3	0.4
110.5°	0.5	0.5	0.5	0.4	0.3	0.5
111°	0.6	0.5	0.5	0.4	0.3	0.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.6	0.5	0.5	0.4	0.3	0.6
113°	0.6	0.5	0.5	0.4	0.3	0.7
113.5°	0.6	0.5	0.5	0.4	0.3	0.7
114°	0.6	0.5	0.5	0.4	0.5	0.7
114.5°	0.6	0.5	0.5	0.4	0.4	0.7
115°	0.7	0.5	0.6	0.4	0.5	0.7
115.5°	0.8	0.5	0.6	0.4	0.5	0.7
116°	0.7	0.5	0.6	0.4	0.5	0.8
116.5°	0.7	0.5	0.6	0.5	0.5	0.8
117°	0.7	0.5	0.6	0.5	0.5	0.7
117.5°	0.7	0.5	0.7	0.6	0.6	1.0
118°	0.8	0.5	0.8	0.6	0.6	1.0
118.5°	0.7	0.6	0.8	0.6	0.7	1.0
119°	0.7	0.6	0.8	0.6	0.7	1.0
119.5°	0.8	0.6	1.0	0.6	0.7	1.0
120°	0.8	0.6	1.0	0.6	0.7	1.0
120.5°	0.8	0.6	1.0	0.6	0.7	1.0
121°	0.8	0.7	1.0	0.6	0.7	1.0
121.5°	0.8	0.7	1.0	0.6	0.7	1.0
122°	0.8	0.8	1.2	0.6	0.7	0.8
122.5°	0.8	0.8	1.2	0.6	0.7	1.0
123°	0.8	0.8	1.2	0.6	0.8	1.1
123.5°	0.8	1.1	1.1	0.7	0.7	1.1
124°	0.8	1.1	1.0	0.7	0.8	1.2
124.5°	0.8	1.1	1.1	0.7	0.8	1.1
125°	0.8	1.0	1.2	0.7	0.8	1.2
125.5°	0.8	1.0	1.2	0.7	0.8	1.0
126°	0.8	1.1	1.1	0.7	0.8	1.1
126.5°	0.8	1.1	1.1	0.7	0.8	1.2
127°	0.8	1.1	1.2	0.7	0.9	1.1
127.5°	0.8	1.1	1.2	0.7	0.9	1.1
128°	0.8	1.2	1.2	0.7	0.9	1.2
128.5°	0.8	1.1	1.2	0.7	0.9	1.2
129°	1.0	1.1	1.2	0.7	0.9	1.2
129.5°	1.0	1.2	1.2	0.8	0.9	1.2
130°	1.0	1.1	1.2	1.0	0.9	1.2
130.5°	0.8	1.2	1.2	1.0	0.9	1.2
131°	0.8	1.1	1.2	1.0	0.9	1.2
131.5°	0.9	1.1	1.2	1.1	0.9	1.2
132°	0.8	1.1	1.2	1.0	0.9	1.2
132.5°	0.8	1.2	1.2	1.2	0.9	1.2
133°	0.8	1.2	1.2	1.2	0.9	1.3
133.5°	0.8	1.2	1.1	1.2	0.9	1.3



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	1.2	1.2	1.2	1.2	1.3
135.5°	0.8	1.2	1.2	1.2	1.2	1.3
136°	0.8	1.2	1.2	1.2	1.1	1.3
136.5°	0.8	1.2	1.2	1.2	1.0	1.3
137°	0.8	1.2	1.2	1.2	1.0	1.3
137.5°	0.8	1.2	1.2	1.2	1.0	1.3
138°	0.8	1.2	1.2	1.2	1.0	1.3
138.5°	0.9	1.2	1.2	1.2	1.0	1.3
139°	0.9	1.2	1.2	1.2	1.0	1.3
139.5°	0.9	1.2	1.2	1.2	1.0	1.3
140°	0.9	1.2	1.2	1.2	1.0	1.3
140.5°	0.9	1.2	1.2	1.2	1.0	1.3
141°	0.9	1.2	1.2	1.2	1.0	1.3
141.5°	0.9	1.2	1.2	1.2	1.0	1.3
142°	0.9	1.2	1.2	1.2	1.1	1.3
142.5°	1.1	1.2	1.2	1.2	1.1	1.3
143°	1.0	1.2	1.2	1.2	1.1	1.3
143.5°	1.1	1.2	1.2	1.2	1.2	1.3
144°	1.1	1.2	1.2	1.2	1.2	1.3
144.5°	1.1	1.2	1.2	1.2	1.1	1.3
145°	1.1	1.2	1.2	1.2	1.1	1.3
145.5°	1.2	1.2	1.2	1.2	1.1	1.3
146°	1.2	1.2	1.2	1.2	1.1	1.3
146.5°	1.2	1.2	1.2	1.2	1.1	1.3
147°	1.2	1.2	1.2	1.2	1.1	1.3
147.5°	1.2	1.2	1.2	1.2	1.1	1.3
148°	1.2	1.2	1.2	1.2	1.1	1.3
148.5°	1.2	1.2	1.2	1.2	1.1	1.3
149°	1.2	1.2	1.2	1.2	1.1	1.3
149.5°	1.3	1.2	1.2	1.2	1.2	1.3
150°	1.2	1.2	1.2	1.2	1.2	1.3
150.5°	1.4	1.2	1.2	1.2	1.2	1.3
151°	1.4	1.2	1.2	1.4	1.2	1.3
151.5°	1.3	1.2	1.2	1.4	1.2	1.3
152°	1.3	1.2	1.2	1.3	1.2	1.3
152.5°	1.3	1.2	1.2	1.3	1.2	1.3
153°	1.3	1.2	1.2	1.3	1.2	1.3
153.5°	1.3	1.2	1.2	1.3	1.2	1.3
154°	1.3	1.2	1.2	1.3	1.3	1.3
154.5°	1.3	1.2	1.2	1.3	1.3	1.3
155°	1.3	1.2	1.2	1.3	1.2	1.3
155.5°	1.3	1.2	1.2	1.3	1.2	1.3
156°	1.3	1.2	1.2	1.3	1.2	1.3



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	1.2	1.2	1.3	1.3	1.3
158°	1.4	1.2	1.2	1.3	1.4	1.3
158.5°	1.5	1.2	1.2	1.3	1.3	1.3
159°	1.6	1.2	1.2	1.3	1.4	1.3
159.5°	1.6	1.2	1.2	1.3	1.4	1.3
160°	1.7	1.2	1.2	1.3	1.5	1.3
160.5°	1.3	1.2	1.2	1.3	1.6	1.4
161°	1.3	1.2	1.2	1.3	1.5	1.3
161.5°	1.3	1.2	1.2	1.3	1.5	1.3
162°	1.3	1.2	1.2	1.3	1.5	1.4
162.5°	1.3	1.2	1.2	1.3	1.5	1.4
163°	1.3	1.2	1.2	1.3	1.6	1.4
163.5°	1.3	1.2	1.2	1.3	1.6	1.4
164°	1.3	1.2	1.2	1.3	1.6	1.4
164.5°	1.3	1.2	1.2	1.3	1.8	1.4
165°	1.3	1.2	1.2	1.4	1.8	1.4
165.5°	1.3	1.2	1.3	1.4	1.7	1.4
166°	1.3	1.2	1.3	1.4	1.7	1.4
166.5°	1.3	1.2	1.3	1.7	1.7	1.4
167°	1.3	1.2	1.7	1.7	1.7	1.4
167.5°	1.3	1.3	1.7	1.7	1.7	1.4
168°	1.3	1.3	1.7	1.7	1.7	1.4
168.5°	1.3	1.3	1.7	1.7	1.7	1.4
169°	1.3	1.4	1.7	1.7	1.7	1.4
169.5°	1.3	1.4	1.7	1.7	1.7	1.4
170°	1.3	1.4	1.7	1.7	1.7	1.4
170.5°	1.3	1.4	1.9	1.8	1.7	1.5
171°	1.3	1.4	1.9	1.7	1.7	1.5
171.5°	1.3	1.6	1.8	1.7	1.7	1.5
172°	1.3	1.8	1.8	1.7	1.7	1.5
172.5°	1.3	1.9	2.0	1.7	1.7	1.5
173°	1.3	2.1	1.9	1.7	1.7	1.5
173.5°	1.3	2.1	2.1	1.7	1.8	1.5
174°	1.3	2.2	2.1	1.7	1.8	1.5
174.5°	1.3	2.2	2.1	1.7	2.1	1.5
175°	1.3	2.2	2.1	1.7	1.8	1.5
175.5°	1.3	2.2	2.1	1.7	1.8	1.5
176°	1.3	2.2	2.1	1.7	1.7	1.5
176.5°	1.3	2.2	2.1	1.7	1.7	1.5
177°	1.3	2.2	2.1	1.7	1.7	1.5
177.5°	1.3	2.2	2.1	1.7	1.7	1.5
178°	1.3	2.2	2.1	1.7	1.7	1.5
178.5°	1.3	2.2	2.1	1.7	1.7	1.5



TEST NUMBER: P417436

CATALOG NUMBER: SMD6R69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.5	1.5	1.5	1.5	1.5	1.5



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°







21.5°	252.0	251.2	252.9	252.1	253.6	253.3	253.8	254.7	255.7	254.9	255.1
22°	250.9	250.3	251.9	251.0	252.8	252.0	253.3	253.6	254.6	253.8	254.2



44°	185.3	185.1	186.3	186.6	188.2	189.4	190.8	190.8	192.2	191.3	191.0
44.5°	183.7	183.3	184.4	184.6	186.3	187.4	188.7	188.8	190.3	189.4	189.1



66.5°	90.3	90.5	91.2	91.8	94.6	95.6	96.8	97.6	98.5	98.1	97.3
67°	87.9	88.2	88.9	89.6	92.3	93.8	94.5	95.3	96.1	95.9	95.2



89°	0.9	0.8	0.8	1.2	3.0	4.2	5.2	5.7	6.0	5.8	5.3
89.5°	0.5	0.5	0.5	0.5	1.2	2.6	3.7	4.2	4.4	4.3	3.9



111.5°	0.6	0.4	0.5	0.6	0.6	0.8	0.5	0.6	0.6	0.5	0.6
112°	0.6	0.5	0.6	0.6	0.6	0.8	0.5	0.6	0.6	0.5	0.6



134°	1.3	1.2	1.0	1.0	0.8	0.9	1.0	0.8	0.9	0.8	0.8
134.5°	1.3	1.2	1.0	1.1	0.8	0.9	0.9	0.8	0.9	0.9	0.8



156.5°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.5
157°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.5	1.5	1.5



179°	1.5	1.5	1.3	1.4	1.5	1.8	1.8	1.7	1.7	1.5	1.5
179.5°	1.5	1.5	1.3	1.3	1.7	2.0	2.0	1.7	1.7	1.5	1.5





21.5°	253.5	253.1	251.6	251.1	251.2	252.0
22°	252.4	252.1	251.0	250.5	250.2	250.9



44°	189.0	187.6	186.0	185.3	185.2	185.3
44.5°	187.3	185.4	184.4	183.3	183.3	183.7



66.5°	95.9	93.5	91.7	90.9	90.3	90.3
67°	93.9	91.2	89.7	88.7	88.0	87.9



89°	4.8	3.3	2.4	1.7	1.0	0.9
89.5°	3.2	1.9	1.5	0.8	0.6	0.5



111.5°	0.6	0.5	0.5	0.4	0.3	0.6
112°	0.6	0.5	0.5	0.4	0.3	0.6



134°	0.8	1.2	1.2	1.2	1.0	1.3
134.5°	0.8	1.2	1.2	1.2	1.0	1.3



156.5°	1.4	1.2	1.2	1.3	1.3	1.3
157°	1.4	1.2	1.2	1.3	1.3	1.3



179°	1.3	2.2	2.1	1.7	1.7	1.5
179.5°	1.3	2.2	2.1	1.7	1.7	1.5



(END OF REPORT)