

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: P417433

Luminaire Tested: **SMD6R69SWH - 3000K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417433  
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 - 3000K  
Description: SMD SELECTABLE CCT 3000K  
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 756.6 lumens  
Efficiency: N/A  
Efficacy: 85.0 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

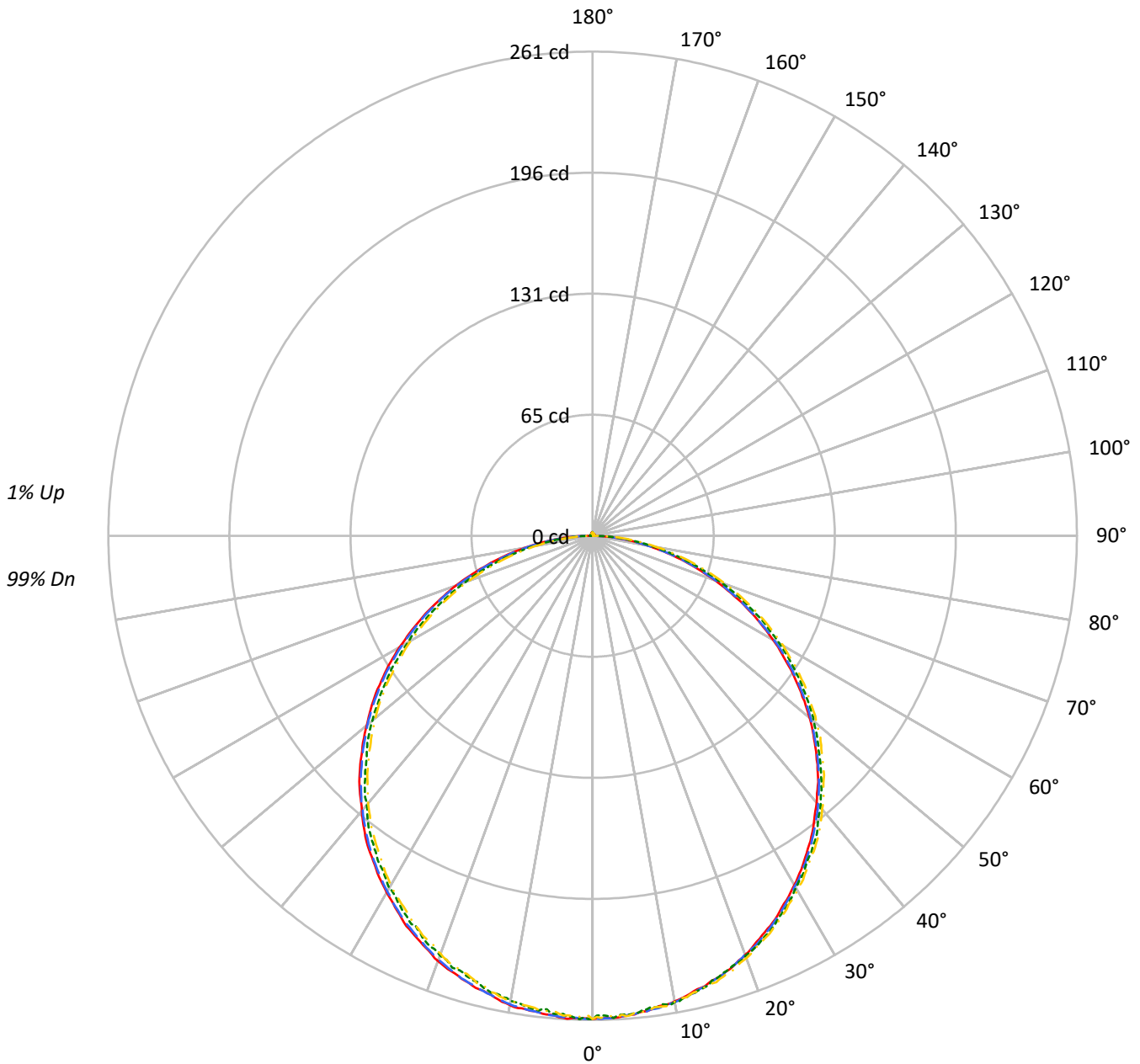
Input Watts (W): 8.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: SMD6R69SWH - 3000K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	14281	14281	14281	14281
5°	14253	14214	14264	14220
10°	14189	14206	14301	14167
15°	14086	14092	14245	14092
20°	14025	14060	14229	14042
25°	13906	14015	14148	13979
30°	13755	13876	14053	13882
35°	13612	13800	13980	13753
40°	13439	13676	13847	13561
45°	13242	13459	13753	13373
50°	13032	13270	13560	13219
55°	12683	13056	13400	12951
60°	12313	12751	13168	12609
65°	11843	12349	12868	12219
70°	11252	11845	12534	11701
75°	10421	11162	12073	11078
80°	9345	10386	11523	10260
85°	7674	9561	11573	9435



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.5	3.2
10°-20°	70.3	9.3
20°-30°	106.5	14.1
30°-40°	128.6	17.0
40°-50°	133.8	17.7
50°-60°	121.6	16.1
60°-70°	93.8	12.4
70°-80°	55.8	7.4
80°-90°	17.1	2.3
90°-100°	0.4	0.1
100°-110°	0.4	0.1
110°-120°	0.6	0.1
120°-130°	0.7	0.1
130°-140°	0.7	0.1
140°-150°	0.7	0.1
150°-160°	0.5	0.1
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	201.3	26.6
0°-40°	329.9	43.6
0°-60°	585.4	77.4
0°-90°	752.0	99.4
90°-120°	1.4	0.2
90°-150°	3.5	0.5
90°-180°	5.0	0.7
0°-180°	756.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	260	260	260	260	260	
5°	259	258	259	258	259	25
15°	248	248	251	248	248	70
25°	230	232	234	231	230	106
35°	203	206	209	206	203	127
45°	171	174	177	172	171	132
55°	133	137	140	136	133	119
65°	91	95	99	94	91	90
75°	49	53	57	52	49	52
85°	12	15	18	15	12	14
90°	0	0	3	1	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	0	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	1	1	1	0
175°	1	1	2	2	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°	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5	260.5
0.5°	260.1	259.7	260.2	258.9	258.7	259.0	259.4	259.6	260.2	260.0	260.5
1°	260.3	259.9	260.5	259.0	258.6	259.2	260.0	258.8	260.1	260.3	260.5
1.5°	260.1	259.9	260.2	258.6	258.8	259.5	259.0	258.8	260.2	259.9	260.2
2°	260.1	259.5	260.2	258.6	259.3	259.3	259.3	258.7	260.3	259.7	260.0
2.5°	260.1	259.4	260.0	258.4	260.2	258.6	258.9	258.7	260.4	259.5	260.2
3°	260.1	259.2	259.8	258.2	258.8	259.3	259.7	258.0	260.8	259.3	260.0
3.5°	259.6	259.0	259.6	258.2	258.6	258.3	258.7	258.1	260.3	259.2	260.0
4°	259.4	258.8	259.1	258.6	258.7	257.6	259.6	258.9	260.1	258.9	259.8
4.5°	259.0	258.6	258.9	258.3	258.9	256.7	259.3	258.7	259.4	258.6	259.5
5°	259.0	258.4	258.7	257.7	258.3	256.7	258.4	258.6	259.2	258.3	259.5
5.5°	258.3	257.9	258.4	257.5	258.2	256.9	258.4	257.9	259.2	258.0	259.2
6°	257.9	257.5	258.3	257.2	257.1	256.9	258.2	258.7	259.0	257.9	258.9
6.5°	258.0	257.3	258.0	256.9	256.9	256.9	257.3	257.6	258.4	257.8	258.6
7°	257.4	256.7	257.3	256.5	256.1	257.1	257.3	257.7	258.2	257.5	258.3
7.5°	256.9	256.7	257.2	256.3	256.3	255.9	256.3	257.5	258.2	257.1	258.1
8°	256.0	256.4	257.1	256.2	256.4	256.5	256.5	256.7	257.8	256.9	257.8
8.5°	255.9	255.8	256.5	255.8	255.3	255.3	256.5	255.8	257.5	256.5	257.4
9°	255.9	255.3	256.1	255.2	255.8	254.7	256.7	255.6	257.7	256.5	257.1
9.5°	255.5	255.0	255.6	254.9	256.2	255.6	255.6	255.4	257.5	256.0	257.0
10°	254.9	254.5	255.3	254.5	255.2	254.3	255.1	255.1	256.9	255.8	256.4
10.5°	254.4	253.7	254.8	253.9	255.4	254.1	255.2	254.9	256.3	255.3	255.9
11°	253.8	253.3	254.1	253.5	254.2	253.6	253.9	254.3	255.9	254.8	255.4
11.5°	253.2	252.6	253.4	252.8	254.1	252.9	253.9	253.7	255.1	254.5	254.8
12°	252.4	252.3	253.1	252.3	252.9	253.3	252.9	253.4	254.4	253.9	254.2
12.5°	251.6	251.2	252.4	251.2	252.8	252.1	252.1	253.2	253.5	253.4	253.5
13°	250.8	250.4	251.4	250.3	251.7	251.4	252.0	252.1	253.0	252.5	253.1
13.5°	250.6	250.1	250.8	250.4	251.3	250.7	250.9	251.8	252.3	252.1	252.4
14°	250.3	249.6	250.5	249.7	250.7	249.6	250.9	250.7	252.0	251.5	251.9
14.5°	249.2	248.7	249.5	248.7	250.2	249.6	249.9	250.3	251.7	250.6	251.0
15°	248.2	248.0	248.9	248.0	248.3	249.3	249.8	250.2	251.0	250.2	250.5
15.5°	247.9	247.1	248.0	247.6	247.9	248.8	249.8	249.4	250.1	249.5	250.0
16°	247.4	246.5	247.5	247.2	247.3	248.1	248.5	249.1	249.6	249.0	249.3
16.5°	246.7	245.7	246.7	246.4	246.0	247.1	247.9	248.8	249.0	248.3	248.8
17°	245.8	244.6	245.8	245.2	245.6	246.4	247.0	247.9	248.0	247.5	247.9
17.5°	245.1	243.9	245.3	244.5	244.9	245.6	246.6	247.0	247.3	246.7	247.2
18°	244.3	242.8	244.2	243.7	243.8	244.4	246.0	246.2	246.7	245.7	246.3
18.5°	243.2	241.8	243.2	242.6	243.4	243.5	245.2	245.5	246.3	244.9	245.7
19°	242.1	240.9	242.3	241.6	243.0	242.8	243.6	244.8	245.5	244.1	244.7
19.5°	241.5	240.2	241.4	240.8	242.3	241.5	242.9	243.4	244.6	243.3	243.9
20°	240.4	238.8	240.2	239.9	241.0	241.1	242.4	242.4	243.9	242.5	243.1
20.5°	239.7	238.0	239.4	238.9	240.2	240.1	241.4	241.6	243.2	241.5	242.2
21°	238.5	237.2	238.6	237.8	239.6	238.9	240.4	240.7	241.8	240.9	241.1



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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°	235.2	234.3	235.9	235.2	236.7	236.4	237.5	237.8	238.8	237.8	238.1
23°	233.9	233.2	234.7	234.3	235.5	234.8	236.4	236.8	237.7	236.9	237.2
23.5°	232.9	232.1	233.7	233.3	234.6	235.1	235.5	235.9	236.7	235.9	236.3
24°	231.8	231.2	232.7	232.3	234.1	233.0	234.7	234.8	235.9	235.0	235.1
24.5°	231.1	230.2	231.6	231.2	232.9	232.8	233.5	234.0	234.9	234.1	234.1
25°	229.9	228.8	230.4	230.0	231.7	231.8	232.2	232.7	233.9	233.1	233.0
25.5°	228.8	227.7	229.3	228.9	230.4	230.9	231.5	231.5	233.2	232.0	232.2
26°	227.6	227.0	227.9	228.0	228.9	229.9	229.8	231.0	231.9	230.8	231.2
26.5°	226.2	225.5	226.9	226.9	227.9	228.8	228.9	229.9	230.6	229.7	229.9
27°	224.8	224.2	225.7	225.8	226.7	227.1	227.8	228.7	229.2	228.5	228.7
27.5°	223.5	223.2	224.5	224.5	225.9	225.9	226.7	227.6	228.0	227.4	227.4
28°	222.5	221.8	223.2	223.1	224.6	224.8	225.1	226.2	226.9	226.2	226.4
28.5°	221.3	220.8	222.1	221.9	223.4	223.7	224.1	224.9	225.4	225.0	225.2
29°	219.9	219.8	220.6	220.5	222.0	222.6	223.3	223.9	224.3	223.8	224.1
29.5°	218.6	218.3	219.3	219.4	220.5	220.9	222.0	222.8	223.2	222.7	222.5
30°	217.3	216.9	218.0	218.2	219.2	219.9	220.5	221.7	222.0	221.4	221.4
30.5°	216.2	215.7	217.0	217.3	217.9	218.6	219.2	220.2	220.7	220.2	220.1
31°	214.8	214.6	215.8	215.6	216.5	217.6	218.4	218.7	219.4	218.9	218.9
31.5°	213.4	213.4	214.5	214.3	215.6	216.3	217.3	217.3	218.2	217.5	217.4
32°	212.2	211.8	212.7	213.0	214.5	214.7	215.5	216.0	217.0	216.3	216.2
32.5°	210.8	210.3	211.5	211.7	212.8	213.0	214.3	215.0	215.8	215.1	214.9
33°	209.2	208.9	210.4	210.1	211.2	211.9	212.8	213.3	214.3	213.7	213.6
33.5°	207.7	207.7	208.8	208.5	209.9	210.0	211.5	211.7	212.8	212.4	212.2
34°	206.4	206.3	207.4	207.1	208.6	208.9	209.9	210.8	211.5	211.2	210.9
34.5°	204.8	204.9	206.0	205.6	207.9	207.2	208.7	209.4	210.1	209.7	209.5
35°	203.4	203.4	204.6	204.2	206.2	205.9	207.8	208.0	208.9	208.2	208.1
35.5°	202.2	202.1	203.1	202.7	204.7	205.0	206.4	206.6	207.7	206.8	206.7
36°	200.6	200.6	201.6	201.2	203.7	203.5	204.9	205.0	206.3	205.5	205.4
36.5°	199.0	199.1	200.2	199.9	202.3	202.0	203.7	203.3	204.9	204.2	203.8
37°	197.5	197.5	198.6	198.4	200.9	200.3	202.3	202.0	203.4	202.7	202.2
37.5°	195.7	195.8	197.0	197.0	199.2	198.6	200.7	200.3	201.7	201.1	200.7
38°	194.0	194.1	195.5	195.3	197.1	197.3	199.0	198.9	200.1	199.2	199.1
38.5°	192.3	192.5	193.8	193.8	195.4	196.2	197.6	197.5	198.5	197.6	197.7
39°	190.8	190.9	192.3	192.2	193.8	194.5	195.9	195.8	197.0	196.0	196.3
39.5°	189.3	189.4	190.8	190.5	192.7	192.9	194.2	194.2	195.2	194.5	194.6
40°	187.8	187.5	189.1	189.0	191.1	191.4	192.5	192.8	193.5	192.9	192.9
40.5°	186.2	186.1	187.2	187.4	189.4	189.9	191.1	191.2	191.6	191.3	191.2
41°	184.4	184.3	185.7	185.8	187.5	188.1	189.2	189.5	190.3	189.6	189.9
41.5°	182.8	182.8	184.0	184.2	185.7	186.4	187.9	188.0	188.8	188.0	188.1
42°	181.4	180.9	182.3	182.4	184.4	184.5	186.0	186.3	187.4	186.4	186.5
42.5°	180.0	179.6	180.7	180.7	182.5	182.8	184.1	184.6	185.9	184.9	184.8
43°	178.1	177.8	178.8	179.2	180.9	181.3	182.3	183.0	184.2	183.3	183.1
43.5°	176.3	175.9	177.0	177.4	178.9	179.6	181.0	181.3	182.7	181.7	181.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	170.8	170.7	171.8	171.9	173.6	174.3	175.6	175.9	177.4	176.5	176.1
45.5°	169.2	169.0	169.9	170.3	171.8	172.5	173.9	174.1	175.5	174.7	174.4
46°	167.4	167.1	168.0	168.6	169.8	171.0	172.1	172.6	173.7	173.1	172.8
46.5°	165.5	165.3	166.2	166.8	167.9	169.5	170.2	170.5	171.6	171.4	170.9
47°	163.7	163.4	164.5	164.9	166.5	167.4	168.4	168.8	169.9	169.5	169.2
47.5°	161.9	161.4	162.7	163.1	164.5	165.6	167.1	166.9	168.2	167.6	167.2
48°	160.2	159.7	160.8	161.1	162.9	163.7	165.2	165.5	166.5	165.9	165.3
48.5°	158.4	157.7	158.9	159.1	161.3	162.3	164.0	163.7	164.5	164.1	163.5
49°	156.6	156.0	157.1	157.2	159.3	160.6	161.5	161.9	162.9	162.2	161.8
49.5°	154.6	154.1	155.2	155.6	157.2	158.5	159.8	160.3	160.9	160.4	160.1
50°	152.8	152.4	153.4	153.7	155.6	156.8	157.7	158.4	159.0	158.5	158.3
50.5°	150.7	150.4	151.6	151.8	154.0	155.1	156.0	156.7	157.0	156.6	156.6
51°	148.7	148.5	149.8	149.9	152.0	153.1	154.5	154.8	155.4	154.9	154.5
51.5°	146.7	146.7	147.9	147.9	150.2	151.4	152.3	152.9	153.5	153.0	152.8
52°	144.9	144.7	145.8	146.0	148.3	149.4	150.1	150.9	151.8	151.4	151.0
52.5°	142.6	143.0	143.8	144.0	146.1	147.3	148.2	148.8	149.9	149.6	148.9
53°	140.8	141.0	141.7	142.0	144.2	145.5	146.4	147.2	148.1	147.8	146.9
53.5°	138.9	138.9	139.7	140.1	142.2	143.7	144.5	145.7	146.3	145.8	145.0
54°	136.7	137.0	137.9	138.2	140.2	141.5	142.7	143.7	144.3	143.8	143.0
54.5°	134.6	134.7	136.0	136.2	138.5	139.8	141.0	141.5	142.4	141.8	141.1
55°	132.7	132.7	134.0	134.4	136.6	137.5	139.1	139.8	140.2	139.8	139.2
55.5°	130.9	131.0	131.8	132.2	134.5	135.4	136.7	137.7	138.2	137.8	137.0
56°	128.9	128.8	129.9	130.1	132.4	133.5	134.8	135.4	136.2	135.9	135.2
56.5°	126.6	126.8	127.9	128.2	130.5	131.7	133.0	133.3	134.3	133.6	133.2
57°	124.5	124.4	125.7	126.0	128.4	129.3	130.9	131.4	132.3	131.7	131.2
57.5°	122.4	122.4	123.7	124.0	126.5	127.4	128.9	129.2	130.5	129.6	129.1
58°	120.5	120.4	121.7	121.9	124.6	125.5	126.5	127.4	128.3	127.6	127.0
58.5°	118.4	118.2	119.7	119.9	122.5	123.5	124.3	125.4	126.3	125.4	124.9
59°	116.6	116.2	117.6	117.9	120.3	121.5	122.4	123.4	124.3	123.3	123.0
59.5°	114.3	114.3	115.4	115.9	118.3	119.4	120.5	121.4	122.4	121.4	121.1
60°	112.3	112.4	113.3	113.9	116.3	117.1	118.9	119.4	120.1	119.3	119.0
60.5°	110.3	110.3	111.1	111.7	114.3	115.1	116.4	117.3	117.9	117.2	117.0
61°	108.0	108.1	109.0	109.6	112.2	113.3	114.2	115.3	115.7	115.2	114.8
61.5°	106.2	106.1	106.9	107.5	109.7	111.0	112.2	113.3	113.7	113.2	112.5
62°	103.9	104.0	104.7	105.4	107.9	109.1	110.2	111.2	111.7	111.2	110.5
62.5°	101.8	101.9	102.5	103.3	105.8	106.9	108.0	108.7	109.6	109.1	108.5
63°	99.6	99.6	100.4	101.2	104.1	104.7	106.1	106.7	107.4	107.1	106.3
63.5°	97.7	97.5	98.4	99.1	102.0	102.6	104.0	104.7	105.4	104.9	104.2
64°	95.6	95.3	96.3	96.9	99.8	100.3	101.9	102.6	103.2	102.8	102.2
64.5°	93.4	93.3	94.2	94.8	97.4	98.3	99.6	100.3	101.2	100.8	100.3
65°	91.3	91.1	92.0	92.7	95.2	96.0	97.5	98.2	99.2	98.7	98.1
65.5°	89.5	89.3	90.0	90.5	93.1	94.1	95.5	96.1	97.1	96.7	96.0
66°	87.3	87.0	87.8	88.7	91.1	91.9	93.5	94.1	94.9	94.4	93.7





TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	80.7	80.9	81.4	82.1	84.8	86.2	87.2	87.8	88.6	88.3	87.7
68°	78.6	78.7	79.3	80.0	82.8	83.8	85.0	85.7	86.4	86.1	85.7
68.5°	76.5	76.6	77.1	77.9	80.5	81.6	82.8	83.9	84.5	83.9	83.4
69°	74.3	74.6	75.2	75.8	78.4	79.4	80.9	81.6	82.3	81.6	81.3
69.5°	72.2	72.5	73.1	73.6	76.0	77.3	78.5	79.6	80.3	79.4	79.2
70°	70.2	70.2	70.8	71.4	73.9	74.9	76.4	77.6	78.2	77.3	77.1
70.5°	67.8	68.3	68.8	69.4	71.8	73.0	74.3	75.4	76.1	75.3	74.8
71°	65.6	65.8	66.4	67.2	69.9	70.7	72.2	73.1	73.9	73.2	72.7
71.5°	63.5	63.7	64.3	65.1	67.6	68.5	70.0	70.9	71.8	71.1	70.5
72°	61.6	61.8	62.1	63.0	65.2	66.5	67.9	68.8	69.6	69.0	68.4
72.5°	59.5	59.6	60.1	60.8	63.1	64.3	65.8	66.7	67.5	67.0	66.3
73°	57.3	57.5	57.9	58.7	61.1	62.2	63.6	64.5	65.2	64.9	64.1
73.5°	55.3	55.4	56.0	56.6	59.1	60.2	61.4	62.4	63.2	62.7	62.0
74°	53.3	53.3	53.8	54.7	57.0	58.1	59.2	60.5	61.0	60.5	59.9
74.5°	51.4	51.3	52.0	52.6	55.1	56.0	57.2	58.2	58.9	58.5	57.8
75°	49.2	49.4	49.7	50.5	52.7	54.0	55.3	56.1	57.0	56.5	55.8
75.5°	47.0	47.2	47.8	48.5	50.8	52.1	53.2	54.0	55.1	54.5	54.0
76°	45.1	45.0	45.7	46.4	48.7	49.9	51.2	51.9	52.9	52.4	51.7
76.5°	43.3	43.1	43.7	44.4	46.8	47.9	49.2	50.1	50.7	50.3	49.6
77°	41.2	41.0	41.7	42.3	44.7	45.9	47.2	47.9	48.6	48.3	47.6
77.5°	39.3	39.3	39.7	40.3	42.7	43.9	45.3	46.0	46.7	46.3	45.7
78°	37.0	37.1	37.7	38.4	40.7	41.8	43.2	44.0	44.7	44.3	43.7
78.5°	35.2	35.2	35.8	36.4	38.8	39.8	41.1	42.0	42.6	42.2	41.7
79°	33.4	33.4	33.8	34.4	36.8	37.9	39.3	39.9	40.6	40.3	39.6
79.5°	31.6	31.4	31.8	32.6	34.9	35.9	37.1	38.1	38.4	38.4	37.6
80°	29.6	29.6	29.9	30.7	32.9	34.0	35.1	36.0	36.5	36.4	35.7
80.5°	27.7	27.6	28.0	28.7	30.9	32.1	33.0	34.2	34.7	34.5	33.9
81°	25.9	25.8	26.2	26.9	29.2	30.3	31.3	32.2	32.8	32.6	31.9
81.5°	24.1	24.0	24.3	24.9	27.2	28.4	29.5	30.5	30.9	30.7	30.1
82°	22.5	22.4	22.7	23.4	25.4	26.5	27.5	28.6	29.0	28.9	28.2
82.5°	20.7	20.6	21.0	21.6	23.6	24.7	25.8	26.8	27.1	27.0	26.4
83°	18.9	18.9	19.3	19.9	21.9	22.8	24.1	25.2	25.3	25.3	24.6
83.5°	17.1	17.2	17.6	18.2	20.3	21.4	22.2	23.1	23.6	23.4	22.8
84°	15.5	15.4	15.8	16.3	18.6	19.6	20.7	21.6	21.9	21.8	21.3
84.5°	13.9	13.8	14.1	14.7	17.0	18.0	19.0	20.1	20.3	20.1	19.5
85°	12.2	12.0	12.4	13.1	15.2	16.3	17.3	18.1	18.4	18.5	17.7
85.5°	10.6	10.5	10.8	11.4	13.5	14.5	15.5	16.4	16.9	16.7	16.2
86°	9.0	8.9	9.2	9.8	11.9	13.0	13.9	14.7	15.2	15.1	14.4
86.5°	7.6	7.2	7.7	8.3	10.3	11.4	12.3	13.1	13.4	13.3	12.8
87°	5.9	5.9	6.2	6.8	8.8	9.8	10.7	11.4	11.9	11.7	11.2
87.5°	4.6	4.6	4.8	5.6	7.2	8.3	9.2	9.8	10.2	10.2	9.6
88°	3.2	3.2	3.4	3.9	5.7	6.8	7.6	8.3	8.6	8.8	8.1
88.5°	1.7	1.6	1.8	2.3	4.3	5.4	6.2	6.9	7.1	7.1	6.6



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**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	0.6	1.8	2.7	2.8	2.7	2.3
90.5°	0.5	0.1	0.4	0.3	0.4	0.3	0.4	0.8	1.1	1.2	0.9
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	0.4	0.3	0.3	0.3	0.1	0.3	0.4	0.3
92.5°	0.4	0.1	0.4	0.1	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	0.3	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	0.5	0.4	0.5	0.4	0.4	0.4
104°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
104.5°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
105°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
105.5°	0.4	0.3	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
106°	0.4	0.2	0.4	0.4	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	0.5	0.5	0.5	0.5	0.5	0.5
107°	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.4	0.3	0.4	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
108°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
108.5°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
109°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6
109.5°	0.4	0.3	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6
110°	0.4	0.3	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
110.5°	0.5	0.4	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
111°	0.5	0.4	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.6	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5
113°	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.7	0.5	0.5	0.5
113.5°	0.7	0.7	0.6	0.6	0.5	0.7	0.5	0.7	0.5	0.5	0.5
114°	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.7	0.7	0.5	0.5
114.5°	0.7	0.8	0.6	0.6	0.5	0.7	0.5	0.7	0.6	0.5	0.5
115°	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.7	0.6	0.5	0.5
115.5°	0.7	0.7	0.6	0.8	0.5	0.7	0.6	0.7	0.7	0.5	0.5
116°	0.7	0.8	0.6	0.3	0.5	0.7	0.7	0.7	0.7	0.5	0.5
116.5°	0.7	0.9	0.6	0.8	0.5	0.7	0.7	0.7	0.7	0.5	0.6
117°	0.7	1.0	0.7	0.9	0.5	0.7	0.6	0.7	0.7	0.6	0.6
117.5°	0.9	0.9	0.7	0.5	0.5	0.7	0.6	0.7	0.7	0.6	0.6
118°	0.9	0.8	0.7	0.8	0.5	0.7	0.7	0.7	0.7	0.5	0.7
118.5°	0.9	1.0	0.7	0.8	0.5	0.8	0.7	0.7	0.7	0.6	0.7
119°	0.9	1.0	0.7	0.5	0.5	0.8	0.7	0.7	0.7	0.6	0.7
119.5°	1.0	1.0	0.7	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7
120°	0.9	0.9	0.8	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
120.5°	0.9	0.9	0.8	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7
121°	1.0	1.0	0.8	0.7	0.5	0.7	0.7	0.7	0.7	0.7	0.7
121.5°	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
122°	0.8	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
122.5°	0.9	0.9	0.8	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.7
123°	1.1	1.0	0.8	1.0	0.6	0.7	0.7	0.7	0.7	0.7	0.7
123.5°	1.0	1.0	0.8	0.9	0.6	0.7	0.7	0.7	0.7	0.7	0.7
124°	1.1	1.1	0.8	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.8
124.5°	1.0	1.0	0.8	0.8	0.6	0.7	0.7	0.7	0.7	0.6	0.8
125°	1.1	1.0	0.8	0.8	0.6	0.7	0.7	0.7	0.7	0.7	0.7
125.5°	1.0	1.1	0.8	0.9	0.6	0.8	0.7	0.7	0.9	0.7	0.7
126°	1.1	1.0	0.8	0.8	0.6	0.8	0.7	0.7	0.8	0.8	0.7
126.5°	1.1	1.0	0.8	0.9	0.7	0.8	0.8	0.7	0.8	0.7	0.7
127°	1.1	1.0	0.8	1.0	0.7	0.8	0.8	0.7	0.8	0.7	0.8
127.5°	1.1	1.0	0.8	0.9	0.6	0.8	0.8	0.7	0.9	0.8	0.8
128°	1.1	1.1	0.8	0.9	0.6	0.8	0.8	0.7	0.9	0.8	0.8
128.5°	1.1	1.0	0.8	0.9	0.6	0.9	0.8	0.7	0.9	0.8	0.8
129°	1.1	1.0	1.0	0.9	0.7	0.9	0.8	0.7	0.9	0.9	0.8
129.5°	1.1	1.1	1.0	0.9	0.7	0.8	0.8	0.7	0.9	0.8	0.8
130°	1.1	0.9	0.9	1.0	0.7	0.8	0.8	0.7	1.0	0.8	0.8
130.5°	1.1	1.0	0.9	1.0	0.7	0.8	0.8	0.8	0.6	0.8	0.8
131°	1.1	0.9	0.9	0.8	0.7	0.8	0.8	0.8	0.7	0.8	0.8
131.5°	1.1	1.1	0.9	0.8	0.7	0.8	0.7	0.7	0.5	0.8	0.8
132°	1.1	1.1	0.9	1.0	0.7	0.8	0.9	0.7	0.5	0.8	0.8
132.5°	1.2	1.1	0.9	0.8	0.7	0.8	0.9	0.7	0.8	0.7	0.8
133°	1.2	1.2	0.9	0.8	0.7	0.8	0.9	0.7	0.8	0.7	0.8
133.5°	1.2	1.2	0.9	0.9	0.7	0.8	0.9	0.7	0.9	0.8	0.8



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.2	1.1	0.9	0.8	0.8	0.8	0.9	0.7	0.9	0.9	0.8
135.5°	1.2	1.1	0.9	0.8	0.8	0.8	1.0	0.8	0.9	0.9	0.8
136°	1.2	1.2	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.9	0.9
136.5°	1.2	1.2	0.9	1.0	0.8	0.8	0.9	0.8	1.0	0.8	0.9
137°	1.2	1.1	0.9	1.0	0.8	0.8	1.0	0.8	0.9	0.8	0.9
137.5°	1.2	1.1	0.9	0.9	0.8	0.8	1.0	0.8	0.9	0.8	0.9
138°	1.2	1.1	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.9
138.5°	1.2	1.1	0.9	1.0	0.8	0.8	0.9	0.8	0.9	0.8	0.9
139°	1.2	1.1	1.0	1.0	0.8	0.9	0.9	0.8	0.9	0.9	0.9
139.5°	1.2	1.1	1.1	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.9
140°	1.2	1.1	1.1	1.0	0.8	0.8	1.0	0.8	0.9	0.9	0.9
140.5°	1.2	1.1	1.1	0.9	0.8	1.0	0.9	0.8	0.9	0.9	0.9
141°	1.2	1.1	1.1	1.0	0.8	1.0	1.1	0.8	0.9	0.8	1.0
141.5°	1.2	1.1	1.1	1.0	0.8	0.9	1.1	0.8	0.9	1.0	1.0
142°	1.2	1.1	1.1	1.0	0.8	0.9	1.0	0.8	0.9	0.9	1.0
142.5°	1.2	1.1	1.1	0.9	0.8	0.9	1.0	0.9	0.9	1.0	1.0
143°	1.2	1.1	1.1	1.0	0.8	0.9	1.0	0.8	0.9	0.9	1.0
143.5°	1.2	1.1	1.1	1.0	0.8	0.9	1.0	0.8	1.1	1.1	1.0
144°	1.2	1.1	1.2	1.0	0.8	0.9	1.0	0.8	1.0	1.1	1.0
144.5°	1.2	1.1	1.2	1.2	0.8	0.9	1.0	0.9	1.0	1.1	1.0
145°	1.2	1.1	1.2	1.1	0.8	0.9	1.0	0.9	1.0	1.1	1.0
145.5°	1.2	1.1	1.2	1.1	0.8	0.9	1.1	0.9	1.0	1.1	1.1
146°	1.2	1.1	1.2	1.0	0.8	0.9	1.1	0.9	1.0	1.1	1.1
146.5°	1.2	1.1	1.2	1.0	0.8	0.9	1.1	1.0	1.1	1.0	1.1
147°	1.2	1.1	1.2	1.1	0.8	0.9	1.2	1.1	1.1	1.2	1.1
147.5°	1.2	1.1	1.2	1.1	0.8	0.9	1.2	1.1	1.1	1.2	1.1
148°	1.2	1.1	1.2	1.0	0.8	0.9	1.2	1.0	1.1	1.1	1.1
148.5°	1.2	1.1	1.2	1.0	0.8	0.9	1.2	1.0	1.1	1.1	1.1
149°	1.2	1.1	1.2	1.0	0.8	0.9	1.2	1.0	1.1	1.1	1.1
149.5°	1.2	1.1	1.2	1.0	0.9	0.9	1.2	1.0	1.1	1.1	1.2
150°	1.2	1.1	1.2	1.0	0.9	0.9	1.2	1.0	1.1	1.1	1.2
150.5°	1.2	1.1	1.2	1.0	1.0	0.9	1.2	1.0	1.1	1.2	1.2
151°	1.2	1.1	1.2	1.0	1.0	0.9	1.2	1.0	1.2	1.2	1.2
151.5°	1.2	1.1	1.2	1.0	1.0	0.8	1.2	1.0	1.2	1.2	1.2
152°	1.2	1.1	1.2	1.0	1.0	0.8	1.2	1.0	1.1	1.2	1.2
152.5°	1.2	1.1	1.2	1.0	1.0	0.8	1.2	1.0	1.1	1.3	1.2
153°	1.2	1.1	1.2	1.0	1.0	0.8	1.2	1.0	1.1	1.3	1.2
153.5°	1.2	1.1	1.2	1.0	1.0	0.9	1.2	1.0	1.2	1.3	1.2
154°	1.2	1.1	1.2	1.0	1.0	1.7	1.3	1.0	1.2	1.3	1.2
154.5°	1.2	1.1	1.2	1.0	1.0	1.1	1.3	1.0	1.2	1.4	1.2
155°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.2	1.4	1.3
155.5°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.3	1.4	1.4
156°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.3	1.4	1.4



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.4	1.4	1.4
158°	1.2	1.1	1.2	1.0	1.0	1.2	1.2	1.1	1.4	1.4	1.4
158.5°	1.2	1.1	1.2	1.0	1.0	1.2	1.2	1.1	1.5	1.4	1.4
159°	1.2	1.2	1.2	1.0	1.0	1.2	1.2	1.0	1.4	1.4	1.4
159.5°	1.2	1.1	1.2	1.0	1.0	1.2	1.2	1.1	1.6	1.5	1.4
160°	1.2	1.1	1.2	1.0	1.0	1.2	1.2	1.3	1.6	1.5	1.4
160.5°	1.3	1.2	1.2	1.0	1.0	1.3	1.2	1.2	1.6	1.5	1.4
161°	1.2	1.2	1.2	1.0	1.0	1.2	1.2	1.4	1.6	1.6	1.4
161.5°	1.2	1.2	1.2	1.0	1.0	1.2	1.3	1.4	1.7	1.6	1.4
162°	1.3	1.2	1.2	1.0	1.0	1.3	1.3	1.4	1.8	1.6	1.4
162.5°	1.3	1.2	1.2	1.0	1.0	1.3	1.3	1.4	1.4	1.6	1.4
163°	1.3	1.2	1.2	1.0	1.0	1.3	1.4	1.4	1.5	1.5	1.4
163.5°	1.3	1.3	1.2	1.0	1.0	1.3	1.4	1.4	1.5	1.5	1.4
164°	1.3	1.2	1.2	1.0	1.0	1.4	1.3	1.4	1.4	1.5	1.4
164.5°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.4	1.5	1.4
165°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.4	1.5	1.4
165.5°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.4	1.5	1.4
166°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.5	1.5	1.4
166.5°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.5	1.5	1.4
167°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.5	1.5	1.4
167.5°	1.3	1.4	1.2	1.0	1.0	1.4	1.3	1.4	1.8	1.5	1.4
168°	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.4	2.0	1.5	1.4
168.5°	1.3	1.4	1.2	1.0	1.2	1.4	1.3	1.4	1.6	1.5	1.4
169°	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.4	1.6	1.5	1.4
169.5°	1.3	1.4	1.2	1.0	1.1	1.4	1.3	1.4	1.5	1.5	1.4
170°	1.3	1.4	1.2	1.0	1.2	1.4	1.3	1.4	1.5	1.5	1.4
170.5°	1.4	1.4	1.2	1.0	1.3	1.4	1.3	1.4	1.5	1.5	1.4
171°	1.4	1.4	1.2	1.0	1.3	1.6	1.3	1.4	1.5	1.6	1.4
171.5°	1.4	1.4	1.2	1.0	1.3	1.5	1.3	1.4	1.5	1.6	1.4
172°	1.4	1.4	1.2	1.0	1.3	1.5	1.3	1.4	1.5	1.4	1.4
172.5°	1.4	1.4	1.2	1.0	1.4	1.5	1.5	1.4	1.5	1.4	1.4
173°	1.4	1.4	1.2	1.0	1.3	1.5	1.4	1.4	1.5	1.4	1.4
173.5°	1.4	1.4	1.2	1.0	1.4	1.5	1.4	1.4	1.5	1.4	1.4
174°	1.4	1.4	1.2	1.0	1.2	1.5	1.4	1.4	1.5	1.4	1.4
174.5°	1.4	1.4	1.2	1.0	1.3	1.5	1.4	1.4	1.5	1.4	1.4
175°	1.4	1.4	1.2	1.0	1.4	1.5	1.4	1.4	1.5	1.4	1.4
175.5°	1.4	1.4	1.2	1.0	1.3	1.5	1.4	1.4	1.5	1.4	1.4
176°	1.4	1.4	1.2	1.0	1.2	1.5	1.4	1.4	1.5	1.4	1.4
176.5°	1.4	1.4	1.2	1.0	1.2	1.5	1.4	1.4	1.5	1.4	1.4
177°	1.4	1.4	1.2	1.0	1.2	1.5	1.4	1.4	1.5	1.4	1.4
177.5°	1.4	1.4	1.2	1.0	1.0	1.5	1.5	1.5	1.6	1.4	1.4
178°	1.4	1.4	1.2	1.0	1.1	1.5	1.5	1.4	1.6	1.4	1.4
178.5°	1.4	1.4	1.2	1.2	1.1	1.5	1.5	1.5	1.6	1.4	1.4



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	260.5	260.5	260.5	260.5	260.5	260.5
0.5°	259.1	260.5	258.9	258.8	259.9	260.1
1°	259.2	259.6	259.1	258.5	259.6	260.3
1.5°	259.3	260.7	258.1	259.5	259.3	260.1
2°	259.1	260.2	258.7	259.0	258.8	260.1
2.5°	259.0	259.3	258.7	259.0	258.7	260.1
3°	258.9	259.7	258.6	258.8	259.0	260.1
3.5°	258.8	258.2	257.8	259.1	258.6	259.6
4°	258.4	258.3	258.4	258.3	258.0	259.4
4.5°	258.5	258.6	257.3	257.3	258.1	259.0
5°	258.1	258.4	257.6	257.1	258.1	259.0
5.5°	257.9	256.5	257.5	257.4	257.6	258.3
6°	257.9	256.5	257.6	257.1	257.6	257.9
6.5°	257.5	257.5	257.3	257.3	257.2	258.0
7°	257.1	257.3	256.7	256.3	256.6	257.4
7.5°	256.8	256.8	256.5	256.1	256.3	256.9
8°	256.3	256.5	256.5	255.7	256.3	256.0
8.5°	256.2	255.7	255.8	255.6	255.8	255.9
9°	255.6	255.0	254.5	255.1	255.4	255.9
9.5°	255.3	254.9	253.0	255.0	254.5	255.5
10°	255.0	254.5	253.3	253.9	253.8	254.9
10.5°	254.4	253.4	253.4	254.4	253.4	254.4
11°	253.9	253.5	252.4	253.8	253.2	253.8
11.5°	253.4	252.6	253.0	253.3	252.3	253.2
12°	252.7	252.1	251.2	252.1	252.4	252.4
12.5°	252.4	252.3	250.1	252.0	251.9	251.6
13°	251.8	251.5	249.9	250.6	250.7	250.8
13.5°	251.0	250.7	250.5	249.9	249.8	250.6
14°	250.4	249.6	248.9	249.1	249.4	250.3
14.5°	249.6	248.4	248.8	249.1	248.7	249.2
15°	248.9	248.3	247.5	247.7	247.9	248.2
15.5°	248.5	247.4	247.1	246.7	246.7	247.9
16°	247.6	246.9	245.9	245.6	246.1	247.4
16.5°	246.9	245.7	245.4	245.5	245.7	246.7
17°	246.2	245.0	244.4	244.5	245.3	245.8
17.5°	245.2	244.8	243.3	243.9	244.5	245.1
18°	244.5	244.8	242.9	243.3	243.6	244.3
18.5°	243.6	243.4	241.6	242.9	242.6	243.2
19°	242.9	241.7	240.8	241.8	241.5	242.1
19.5°	242.2	241.4	239.7	241.0	240.4	241.5
20°	241.1	240.7	239.9	239.7	239.4	240.4
20.5°	240.1	239.4	237.5	239.0	238.3	239.7
21°	239.3	238.5	237.8	237.2	237.5	238.5



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	236.3	236.2	233.9	234.9	234.6	235.2
23°	235.3	235.1	233.4	234.1	233.6	233.9
23.5°	234.5	233.2	232.3	232.8	232.7	232.9
24°	233.3	232.1	231.9	231.6	231.5	231.8
24.5°	232.2	230.6	230.1	230.8	230.4	231.1
25°	231.1	231.1	229.6	229.7	229.2	229.9
25.5°	230.2	229.9	228.8	228.1	227.7	228.8
26°	229.0	228.4	227.2	226.8	226.5	227.6
26.5°	228.0	227.4	226.4	225.6	225.5	226.2
27°	226.9	226.3	225.5	224.4	224.2	224.8
27.5°	225.7	224.8	224.4	223.5	223.2	223.5
28°	224.5	223.6	223.1	222.3	221.8	222.5
28.5°	223.4	222.1	221.8	221.0	220.4	221.3
29°	222.1	220.9	220.7	220.1	218.9	219.9
29.5°	220.7	219.8	219.5	218.9	218.1	218.6
30°	219.7	219.3	218.1	217.6	216.7	217.3
30.5°	218.6	217.7	216.7	216.0	215.5	216.2
31°	217.3	216.0	215.2	214.7	214.3	214.8
31.5°	215.6	214.7	213.8	213.5	212.8	213.4
32°	214.5	213.1	210.9	211.9	211.5	212.2
32.5°	213.1	212.0	210.1	210.2	210.2	210.8
33°	211.7	210.9	209.5	208.9	208.6	209.2
33.5°	210.4	209.8	207.6	207.4	207.0	207.7
34°	209.1	208.1	205.9	206.1	205.5	206.4
34.5°	207.5	206.5	205.3	204.6	204.5	204.8
35°	206.2	205.5	203.9	203.3	203.2	203.4
35.5°	204.8	203.7	202.5	201.9	201.7	202.2
36°	203.3	202.6	200.6	200.5	200.0	200.6
36.5°	201.7	201.1	198.3	198.9	198.5	199.0
37°	200.1	199.6	197.0	197.7	196.8	197.5
37.5°	198.7	198.2	196.4	196.3	195.2	195.7
38°	197.2	196.5	194.6	194.7	193.9	194.0
38.5°	195.9	194.9	193.5	192.8	192.4	192.3
39°	194.4	193.0	191.6	191.4	190.8	190.8
39.5°	192.7	191.0	189.8	189.9	189.4	189.3
40°	191.1	189.5	188.1	188.2	187.9	187.8
40.5°	189.6	188.0	186.2	186.4	186.4	186.2
41°	188.1	186.8	184.8	184.7	184.9	184.4
41.5°	186.3	185.2	183.4	182.9	182.9	182.8
42°	184.6	183.4	181.6	181.2	180.9	181.4
42.5°	182.9	181.9	179.6	179.5	179.1	180.0
43°	181.3	179.8	178.4	178.0	177.4	178.1
43.5°	179.6	178.2	177.0	176.4	176.0	176.3





TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	174.5	172.5	171.9	170.7	170.6	170.8
45.5°	172.8	170.6	170.1	169.2	168.8	169.2
46°	171.0	169.3	168.4	167.4	167.2	167.4
46.5°	169.2	167.9	166.5	165.3	165.4	165.5
47°	167.3	166.0	164.6	163.5	163.5	163.7
47.5°	165.5	164.7	162.9	161.9	161.8	161.9
48°	163.7	162.7	160.7	160.1	159.8	160.2
48.5°	162.0	160.8	158.4	158.2	157.9	158.4
49°	160.3	159.1	156.8	156.4	156.0	156.6
49.5°	158.5	157.1	155.3	154.6	154.3	154.6
50°	156.7	155.0	153.7	152.9	152.3	152.8
50.5°	154.7	153.0	152.0	151.0	150.6	150.7
51°	152.9	151.2	150.2	149.1	148.6	148.7
51.5°	151.1	149.0	148.1	147.4	146.6	146.7
52°	149.2	147.0	146.2	145.5	144.6	144.9
52.5°	147.1	145.0	144.5	143.5	142.8	142.6
53°	145.1	143.5	142.2	141.4	140.9	140.8
53.5°	143.2	141.5	140.0	139.7	138.7	138.9
54°	141.3	139.6	137.9	137.5	136.9	136.7
54.5°	139.4	137.2	135.9	135.4	135.2	134.6
55°	137.6	135.5	133.8	133.3	133.1	132.7
55.5°	135.5	133.6	132.2	131.2	131.0	130.9
56°	133.3	131.6	129.9	129.3	128.8	128.9
56.5°	131.4	129.9	127.6	127.3	126.7	126.6
57°	129.4	127.6	126.0	125.1	124.8	124.5
57.5°	127.2	125.3	123.6	123.1	122.6	122.4
58°	125.3	123.2	121.9	121.0	120.6	120.5
58.5°	123.2	121.2	119.8	119.2	118.4	118.4
59°	121.3	119.1	117.9	117.5	116.3	116.6
59.5°	119.2	117.1	116.2	115.2	114.5	114.3
60°	117.2	115.0	114.1	113.0	112.1	112.3
60.5°	115.1	113.2	111.5	110.7	110.0	110.3
61°	113.0	111.4	109.2	108.6	107.9	108.0
61.5°	110.9	109.0	107.5	106.5	105.9	106.2
62°	108.8	107.3	105.2	104.4	103.7	103.9
62.5°	106.8	105.0	103.2	102.4	101.4	101.8
63°	104.8	102.8	101.2	100.1	99.4	99.6
63.5°	102.7	100.5	99.0	98.0	97.2	97.7
64°	100.7	98.4	97.0	95.8	95.3	95.6
64.5°	98.6	96.3	94.9	93.7	93.4	93.4
65°	96.6	94.2	92.6	91.8	91.0	91.3
65.5°	94.3	92.2	90.6	89.7	89.1	89.5
66°	92.2	90.0	88.2	87.8	87.1	87.3



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	86.3	83.5	82.7	81.4	80.6	80.7
68°	84.2	81.6	80.3	79.1	78.9	78.6
68.5°	81.8	79.6	78.3	77.2	76.7	76.5
69°	79.8	77.4	76.2	75.2	74.6	74.3
69.5°	77.7	75.2	73.9	72.9	72.2	72.2
70°	75.6	73.0	71.7	70.7	70.1	70.2
70.5°	73.3	71.1	69.8	68.7	68.1	67.8
71°	71.2	69.2	67.7	66.6	66.0	65.6
71.5°	69.0	67.1	65.4	64.5	63.9	63.5
72°	67.0	64.9	63.2	62.5	61.7	61.6
72.5°	64.8	62.7	61.1	60.4	59.7	59.5
73°	62.7	60.5	59.2	58.1	57.5	57.3
73.5°	60.6	58.3	57.2	56.2	55.4	55.3
74°	58.5	56.3	55.0	54.2	53.5	53.3
74.5°	56.3	54.3	53.0	52.2	51.5	51.4
75°	54.5	52.3	51.0	50.1	49.6	49.2
75.5°	52.3	50.2	49.0	47.9	47.4	47.0
76°	50.4	48.3	47.1	45.9	45.2	45.1
76.5°	48.2	46.1	44.9	43.9	43.1	43.3
77°	46.3	44.0	43.0	42.0	41.3	41.2
77.5°	44.2	42.1	40.9	39.9	39.4	39.3
78°	42.3	40.0	39.1	38.1	37.3	37.0
78.5°	40.2	38.2	37.0	36.0	35.5	35.2
79°	38.3	36.3	35.2	34.2	33.6	33.4
79.5°	36.3	34.5	33.1	32.4	32.0	31.6
80°	34.5	32.5	31.3	30.4	29.8	29.6
80.5°	32.7	30.6	29.5	28.5	27.9	27.7
81°	30.8	28.8	27.7	26.6	26.1	25.9
81.5°	28.9	27.0	25.9	25.0	24.4	24.1
82°	27.1	25.2	24.0	23.1	22.7	22.5
82.5°	25.3	23.4	22.4	21.7	20.9	20.7
83°	23.6	21.7	20.7	19.8	19.4	18.9
83.5°	21.9	20.1	19.1	18.3	17.5	17.1
84°	20.2	18.4	17.4	16.5	15.9	15.5
84.5°	18.6	16.7	15.7	14.9	14.3	13.9
85°	17.0	15.0	14.0	13.3	12.5	12.2
85.5°	15.2	13.4	12.4	11.5	10.9	10.6
86°	13.6	11.8	10.9	10.0	9.4	9.0
86.5°	12.0	10.2	9.4	8.5	7.9	7.6
87°	10.4	8.7	7.8	7.0	6.5	5.9
87.5°	8.9	7.3	6.4	5.6	4.9	4.6
88°	7.3	5.8	5.1	4.2	3.5	3.2
88.5°	5.8	4.5	3.7	2.8	2.2	1.7



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.7	0.9	0.6	0.5	0.5	0.5
90.5°	0.7	0.5	0.5	0.5	0.5	0.5
91°	0.3	0.5	0.5	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°	0.5	0.5	0.5	0.4	0.3	0.5



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.3	1.2	1.1	1.2	1.2	1.2
158°	1.3	1.2	1.1	1.2	1.3	1.2
158.5°	1.4	1.2	1.1	1.2	1.2	1.2
159°	1.5	1.2	1.1	1.2	1.3	1.2
159.5°	1.5	1.2	1.1	1.2	1.3	1.2
160°	1.6	1.2	1.1	1.2	1.4	1.2
160.5°	1.2	1.2	1.1	1.2	1.5	1.3
161°	1.2	1.2	1.1	1.2	1.4	1.2
161.5°	1.2	1.2	1.1	1.2	1.4	1.2
162°	1.2	1.2	1.1	1.2	1.4	1.3
162.5°	1.2	1.2	1.1	1.2	1.4	1.3
163°	1.2	1.2	1.1	1.2	1.5	1.3
163.5°	1.2	1.2	1.1	1.2	1.5	1.3
164°	1.2	1.2	1.1	1.2	1.5	1.3
164.5°	1.2	1.2	1.2	1.2	1.7	1.3
165°	1.2	1.2	1.2	1.3	1.7	1.3
165.5°	1.2	1.2	1.2	1.3	1.6	1.3
166°	1.2	1.2	1.2	1.3	1.6	1.3
166.5°	1.2	1.2	1.2	1.6	1.6	1.3
167°	1.2	1.2	1.6	1.6	1.6	1.3
167.5°	1.2	1.2	1.6	1.6	1.6	1.3
168°	1.2	1.2	1.6	1.6	1.6	1.3
168.5°	1.2	1.2	1.6	1.6	1.6	1.3
169°	1.2	1.3	1.6	1.6	1.6	1.3
169.5°	1.2	1.3	1.6	1.6	1.6	1.3
170°	1.2	1.3	1.6	1.6	1.6	1.3
170.5°	1.2	1.3	1.8	1.7	1.6	1.4
171°	1.2	1.3	1.8	1.6	1.6	1.4
171.5°	1.2	1.5	1.7	1.6	1.6	1.4
172°	1.2	1.7	1.7	1.6	1.6	1.4
172.5°	1.2	1.8	1.9	1.6	1.6	1.4
173°	1.2	2.0	1.8	1.6	1.6	1.4
173.5°	1.2	2.0	2.0	1.6	1.7	1.4
174°	1.2	2.0	2.0	1.6	1.7	1.4
174.5°	1.2	2.1	2.0	1.6	2.0	1.4
175°	1.2	2.1	2.0	1.6	1.7	1.4
175.5°	1.2	2.0	2.0	1.6	1.7	1.4
176°	1.2	2.0	2.0	1.6	1.6	1.4
176.5°	1.2	2.0	2.0	1.6	1.6	1.4
177°	1.2	2.0	2.0	1.6	1.6	1.4
177.5°	1.2	2.0	2.0	1.6	1.6	1.4
178°	1.2	2.0	2.0	1.6	1.6	1.4
178.5°	1.2	2.0	2.0	1.6	1.6	1.4



TEST NUMBER: P417433

CATALOG NUMBER: SMD6R69SWH - 3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.4	1.4	1.4	1.4	1.4	1.4



Report Generated By E9808895 / USPTCWHP6082093







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







21.5°	237.2	236.4	238.0	237.2	238.7	238.4	238.9	239.7	240.6	239.9	240.1
22°	236.1	235.5	237.0	236.2	237.9	237.1	238.4	238.7	239.6	238.8	239.3



44°	174.4	174.2	175.3	175.6	177.2	178.2	179.6	179.6	180.9	180.0	179.8
44.5°	172.9	172.5	173.5	173.8	175.4	176.3	177.6	177.7	179.1	178.3	178.0



66.5°	85.0	85.2	85.8	86.4	89.0	90.0	91.1	91.9	92.7	92.4	91.6
67°	82.8	83.0	83.7	84.3	86.9	88.3	88.9	89.7	90.5	90.2	89.6



89°	0.8	0.8	0.8	1.1	2.8	4.0	4.9	5.4	5.6	5.5	5.0
89.5°	0.5	0.5	0.5	0.5	1.1	2.5	3.5	4.0	4.2	4.0	3.7





111.5°	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5
112°	0.6	0.5	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5



134°	1.2	1.1	0.9	0.9	0.8	0.8	0.9	0.8	0.9	0.8	0.8
134.5°	1.2	1.2	0.9	1.0	0.8	0.8	0.9	0.7	0.9	0.8	0.8



156.5°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.3	1.4	1.4
157°	1.2	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.4	1.4	1.4



179°	1.4	1.4	1.2	1.3	1.4	1.7	1.7	1.6	1.6	1.4	1.4
179.5°	1.4	1.4	1.2	1.2	1.6	1.9	1.8	1.6	1.6	1.4	1.4





21.5°	238.6	238.2	236.8	236.3	236.4	237.2
22°	237.6	237.3	236.2	235.7	235.5	236.1



44°	177.9	176.5	175.1	174.4	174.3	174.4
44.5°	176.3	174.4	173.5	172.5	172.5	172.9



66.5°	90.2	88.0	86.3	85.6	85.0	85.0
67°	88.4	85.8	84.4	83.4	82.9	82.8





89°	4.5	3.1	2.3	1.6	1.0	0.8
89.5°	3.1	1.8	1.4	0.8	0.6	0.5



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



134°	0.8	1.1	1.1	1.1	0.9	1.2
134.5°	0.8	1.1	1.2	1.1	0.9	1.2



156.5°	1.3	1.2	1.1	1.2	1.2	1.2
157°	1.3	1.2	1.1	1.2	1.2	1.2



179°	1.2	2.0	2.0	1.6	1.6	1.4
179.5°	1.2	2.0	2.0	1.6	1.6	1.4



(END OF REPORT)