

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: P417432

Luminaire Tested: **SMD6R69SWH - 2700K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417432
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 - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 740.1 lumens
Efficiency: N/A
Efficacy: 83.2 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

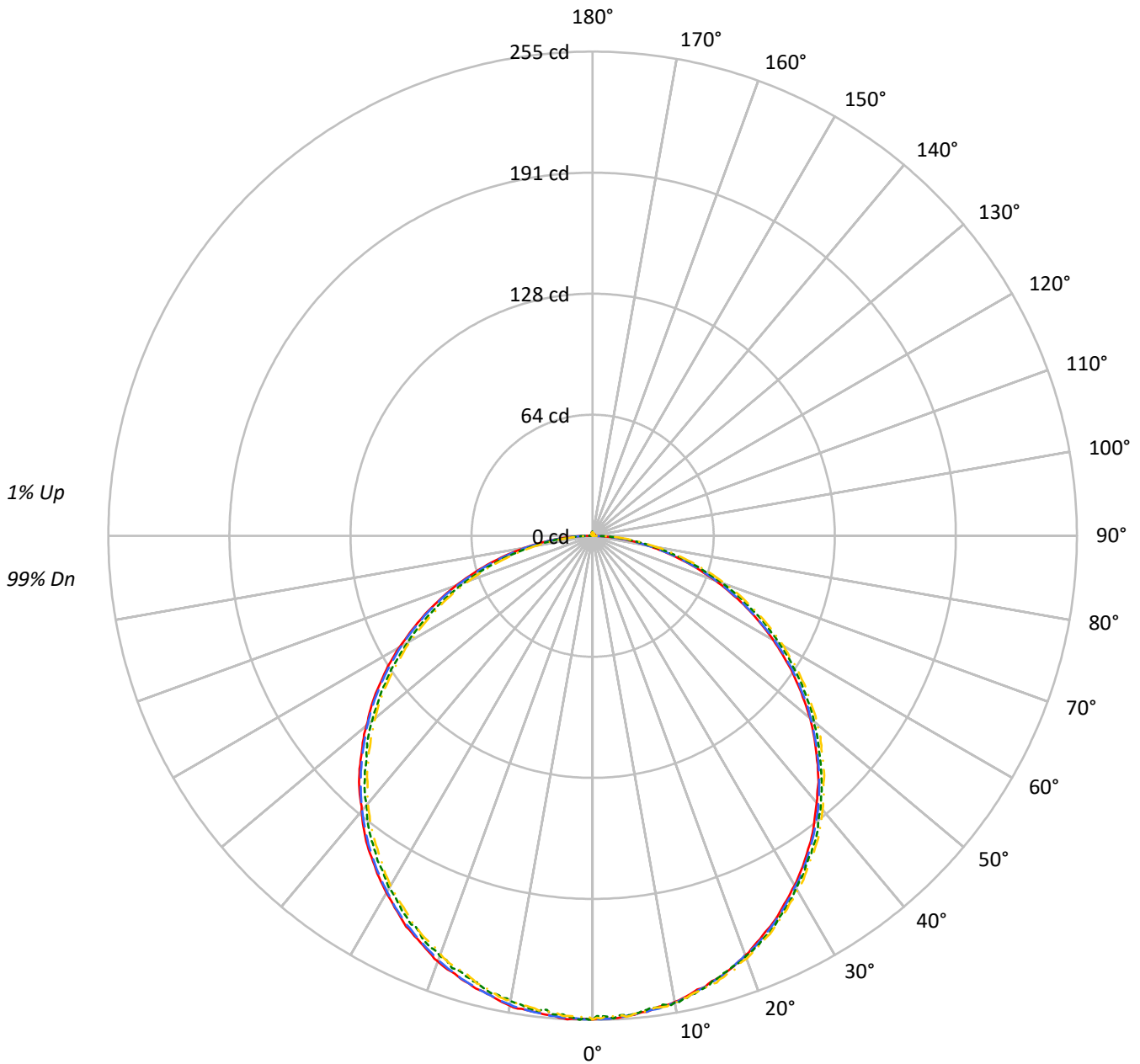
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6R69SWH - 2700K

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	45	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°	13968	13968	13968	13968
5°	13939	13900	13950	13911
10°	13877	13894	13989	13855
15°	13780	13786	13933	13786
20°	13715	13750	13914	13733
25°	13604	13712	13840	13670
30°	13458	13572	13743	13572
35°	13318	13492	13672	13452
40°	13139	13375	13547	13261
45°	12955	13164	13459	13079
50°	12750	12972	13262	12929
55°	12406	12769	13103	12664
60°	12039	12477	12883	12324
65°	11584	12077	12595	11947
70°	11011	11588	12262	11444
75°	10188	10929	11798	10823
80°	9155	10134	11270	10039
85°	7485	9372	11322	9246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.0	3.2
10°-20°	68.7	9.3
20°-30°	104.1	14.1
30°-40°	125.8	17.0
40°-50°	130.9	17.7
50°-60°	119.0	16.1
60°-70°	91.8	12.4
70°-80°	54.6	7.4
80°-90°	16.7	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°	196.9	26.6
0°-40°	322.7	43.6
0°-60°	572.5	77.4
0°-90°	735.5	99.4
90°-120°	1.4	0.2
90°-150°	3.5	0.5
90°-180°	5.0	0.7
0°-180°	740.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	255	255	255	255	255	
5°	253	253	254	253	253	24
15°	243	243	246	243	243	69
25°	225	227	229	226	225	104
35°	199	202	204	201	199	124
45°	167	170	174	169	167	129
55°	130	134	137	132	130	116
65°	89	93	97	92	89	88
75°	48	52	56	51	48	51
85°	12	15	18	15	12	13
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°	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8
0.5°	254.4	254.0	254.5	253.2	253.0	253.3	253.8	253.9	254.5	254.3	254.7
1°	254.5	254.2	254.8	253.3	253.0	253.5	254.3	253.1	254.4	254.5	254.8
1.5°	254.4	254.2	254.5	252.9	253.2	253.8	253.3	253.1	254.5	254.2	254.5
2°	254.4	253.8	254.5	252.9	253.6	253.6	253.6	253.1	254.6	254.0	254.3
2.5°	254.4	253.7	254.3	252.7	254.5	252.9	253.3	253.0	254.6	253.8	254.5
3°	254.4	253.5	254.1	252.5	253.1	253.6	254.0	252.3	255.1	253.6	254.3
3.5°	253.9	253.3	253.9	252.5	252.9	252.6	253.1	252.4	254.6	253.5	254.3
4°	253.7	253.2	253.4	252.9	253.0	252.0	253.9	253.2	254.4	253.3	254.1
4.5°	253.4	252.9	253.2	252.6	253.3	251.1	253.6	253.0	253.7	252.9	253.8
5°	253.3	252.7	253.0	252.0	252.6	251.1	252.7	252.9	253.5	252.6	253.8
5.5°	252.6	252.2	252.7	251.8	252.5	251.2	252.8	252.3	253.5	252.4	253.5
6°	252.2	251.8	252.6	251.6	251.5	251.3	252.6	253.0	253.3	252.3	253.2
6.5°	252.4	251.6	252.4	251.3	251.3	251.3	251.6	252.0	252.8	252.2	252.9
7°	251.7	251.1	251.6	250.9	250.5	251.4	251.6	252.0	252.6	251.9	252.7
7.5°	251.2	251.0	251.6	250.7	250.7	250.3	250.7	251.9	252.5	251.5	252.4
8°	250.4	250.7	251.5	250.6	250.7	250.9	250.9	251.0	252.2	251.2	252.2
8.5°	250.3	250.2	250.9	250.2	249.7	249.7	250.9	250.2	251.9	250.9	251.8
9°	250.3	249.7	250.5	249.6	250.2	249.1	251.0	250.0	252.1	250.9	251.5
9.5°	249.9	249.4	250.0	249.3	250.6	250.0	250.0	249.8	251.9	250.4	251.3
10°	249.3	248.9	249.7	248.9	249.6	248.7	249.5	249.5	251.3	250.2	250.7
10.5°	248.9	248.2	249.2	248.3	249.8	248.6	249.6	249.3	250.6	249.7	250.3
11°	248.2	247.7	248.5	248.0	248.7	248.0	248.3	248.7	250.2	249.2	249.8
11.5°	247.6	247.0	247.8	247.3	248.5	247.3	248.3	248.2	249.5	248.9	249.2
12°	246.9	246.7	247.6	246.8	247.4	247.8	247.3	247.8	248.8	248.3	248.6
12.5°	246.1	245.7	246.9	245.7	247.2	246.6	246.6	247.7	248.0	247.8	248.0
13°	245.3	244.9	245.9	244.8	246.2	245.9	246.4	246.6	247.5	247.0	247.6
13.5°	245.1	244.6	245.3	244.9	245.8	245.2	245.4	246.3	246.8	246.5	246.9
14°	244.8	244.1	245.0	244.2	245.2	244.1	245.4	245.2	246.5	246.0	246.4
14.5°	243.7	243.2	244.0	243.2	244.7	244.1	244.4	244.8	246.2	245.1	245.5
15°	242.8	242.5	243.4	242.5	242.9	243.8	244.3	244.7	245.5	244.7	245.0
15.5°	242.5	241.6	242.6	242.2	242.5	243.3	244.3	243.9	244.6	244.0	244.6
16°	241.9	241.0	242.1	241.8	241.9	242.7	243.0	243.6	244.1	243.5	243.8
16.5°	241.3	240.3	241.3	240.9	240.6	241.7	242.5	243.3	243.6	242.8	243.3
17°	240.4	239.2	240.4	239.8	240.2	241.0	241.6	242.5	242.6	242.0	242.5
17.5°	239.7	238.5	239.9	239.1	239.5	240.2	241.2	241.6	241.8	241.3	241.8
18°	238.9	237.5	238.8	238.3	238.5	239.1	240.6	240.8	241.3	240.3	240.9
18.5°	237.9	236.5	237.8	237.2	238.1	238.1	239.8	240.1	240.9	239.5	240.3
19°	236.8	235.6	236.9	236.3	237.7	237.5	238.2	239.5	240.1	238.8	239.3
19.5°	236.2	234.9	236.1	235.5	237.0	236.2	237.6	238.1	239.3	237.9	238.6
20°	235.1	233.5	235.0	234.6	235.7	235.8	237.1	237.1	238.5	237.1	237.8
20.5°	234.5	232.8	234.2	233.7	235.0	234.8	236.1	236.3	237.8	236.2	236.9
21°	233.2	232.0	233.4	232.6	234.4	233.7	235.1	235.4	236.5	235.6	235.8



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CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	230.0	229.1	230.7	230.0	231.5	231.2	232.3	232.6	233.5	232.6	232.9
23°	228.8	228.1	229.6	229.1	230.3	229.6	231.2	231.6	232.5	231.7	232.0
23.5°	227.7	227.0	228.6	228.2	229.5	229.9	230.3	230.7	231.5	230.7	231.1
24°	226.8	226.1	227.6	227.2	229.0	227.9	229.6	229.6	230.8	229.9	230.0
24.5°	226.0	225.1	226.5	226.1	227.8	227.7	228.4	228.8	229.7	229.0	228.9
25°	224.9	223.7	225.4	224.9	226.7	226.7	227.1	227.6	228.8	228.0	227.9
25.5°	223.8	222.7	224.3	223.8	225.4	225.8	226.4	226.4	228.1	226.9	227.1
26°	222.6	222.1	222.9	223.0	223.9	224.8	224.8	225.9	226.8	225.7	226.1
26.5°	221.2	220.5	221.9	221.9	222.9	223.8	223.9	224.8	225.5	224.6	224.8
27°	219.9	219.3	220.7	220.9	221.7	222.1	222.8	223.7	224.2	223.5	223.7
27.5°	218.6	218.3	219.6	219.6	220.9	220.9	221.7	222.6	223.0	222.4	222.5
28°	217.6	216.9	218.3	218.2	219.6	219.9	220.2	221.3	221.9	221.2	221.5
28.5°	216.4	215.9	217.2	217.0	218.5	218.8	219.1	220.0	220.5	220.1	220.2
29°	215.1	214.9	215.8	215.7	217.2	217.7	218.4	219.0	219.3	218.9	219.1
29.5°	213.8	213.6	214.5	214.6	215.7	216.1	217.2	217.9	218.3	217.8	217.7
30°	212.6	212.1	213.3	213.4	214.4	215.1	215.7	216.8	217.1	216.5	216.5
30.5°	211.5	211.0	212.2	212.5	213.1	213.8	214.4	215.4	215.9	215.3	215.2
31°	210.1	209.9	211.1	210.9	211.8	212.8	213.6	213.9	214.6	214.1	214.1
31.5°	208.7	208.8	209.8	209.6	210.9	211.6	212.5	212.6	213.4	212.8	212.7
32°	207.5	207.1	208.1	208.3	209.8	210.0	210.8	211.3	212.2	211.6	211.4
32.5°	206.2	205.7	206.9	207.1	208.2	208.3	209.6	210.2	211.0	210.3	210.2
33°	204.6	204.3	205.7	205.4	206.5	207.3	208.1	208.6	209.6	209.0	208.9
33.5°	203.1	203.1	204.3	204.0	205.3	205.4	206.9	207.1	208.1	207.8	207.6
34°	201.8	201.8	202.8	202.5	204.0	204.3	205.3	206.2	206.8	206.5	206.2
34.5°	200.3	200.4	201.5	201.1	203.3	202.7	204.1	204.8	205.5	205.1	204.9
35°	199.0	198.9	200.1	199.7	201.6	201.4	203.2	203.5	204.3	203.6	203.5
35.5°	197.7	197.7	198.6	198.2	200.2	200.5	201.8	202.1	203.1	202.3	202.2
36°	196.2	196.2	197.1	196.8	199.2	199.1	200.4	200.5	201.7	201.0	200.9
36.5°	194.7	194.7	195.8	195.5	197.9	197.6	199.3	198.9	200.4	199.7	199.3
37°	193.2	193.1	194.2	194.0	196.4	195.9	197.9	197.5	198.9	198.2	197.8
37.5°	191.4	191.5	192.7	192.6	194.9	194.3	196.3	195.9	197.2	196.7	196.3
38°	189.7	189.8	191.2	191.0	192.8	192.9	194.7	194.5	195.7	194.8	194.8
38.5°	188.1	188.2	189.6	189.6	191.1	191.9	193.3	193.2	194.2	193.2	193.4
39°	186.6	186.8	188.1	188.0	189.6	190.2	191.6	191.5	192.7	191.7	192.0
39.5°	185.1	185.3	186.7	186.4	188.5	188.7	189.9	189.9	190.9	190.2	190.3
40°	183.6	183.4	184.9	184.8	186.9	187.2	188.3	188.6	189.3	188.7	188.7
40.5°	182.1	182.0	183.1	183.3	185.2	185.7	186.9	187.0	187.4	187.1	187.0
41°	180.3	180.3	181.7	181.7	183.4	184.0	185.1	185.3	186.1	185.4	185.7
41.5°	178.8	178.8	180.0	180.1	181.7	182.4	183.8	183.8	184.7	183.9	184.0
42°	177.4	176.9	178.3	178.4	180.3	180.5	181.9	182.2	183.3	182.3	182.5
42.5°	176.1	175.6	176.7	176.8	178.5	178.8	180.0	180.6	181.8	180.8	180.7
43°	174.2	173.9	174.9	175.3	177.0	177.3	178.3	179.0	180.2	179.3	179.1
43.5°	172.5	172.0	173.1	173.5	175.0	175.6	177.0	177.3	178.7	177.7	177.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	167.1	167.0	168.0	168.1	169.8	170.5	171.7	172.1	173.6	172.6	172.3
45.5°	165.5	165.3	166.2	166.6	168.0	168.8	170.1	170.3	171.6	170.9	170.6
46°	163.7	163.4	164.3	164.9	166.1	167.3	168.3	168.8	169.9	169.3	169.0
46.5°	161.9	161.7	162.6	163.2	164.2	165.7	166.5	166.8	167.8	167.6	167.2
47°	160.1	159.8	160.9	161.3	162.9	163.7	164.7	165.1	166.2	165.8	165.4
47.5°	158.4	157.9	159.1	159.5	160.9	161.9	163.4	163.3	164.5	164.0	163.5
48°	156.7	156.2	157.3	157.5	159.3	160.2	161.5	161.9	162.9	162.3	161.7
48.5°	154.9	154.2	155.4	155.6	157.8	158.7	160.4	160.1	160.9	160.5	159.9
49°	153.2	152.6	153.6	153.8	155.8	157.0	158.0	158.4	159.4	158.7	158.3
49.5°	151.2	150.7	151.8	152.2	153.7	155.1	156.3	156.8	157.4	156.9	156.6
50°	149.5	149.1	150.0	150.4	152.1	153.4	154.2	154.9	155.5	155.1	154.8
50.5°	147.4	147.1	148.2	148.5	150.6	151.7	152.6	153.2	153.5	153.2	153.1
51°	145.5	145.2	146.5	146.6	148.7	149.8	151.1	151.4	152.0	151.5	151.1
51.5°	143.5	143.5	144.7	144.6	146.9	148.1	148.9	149.5	150.1	149.6	149.4
52°	141.7	141.6	142.6	142.8	145.1	146.1	146.8	147.5	148.5	148.1	147.7
52.5°	139.4	139.8	140.6	140.9	142.9	144.1	144.9	145.5	146.7	146.4	145.7
53°	137.7	137.9	138.6	138.9	141.0	142.3	143.2	144.0	144.8	144.5	143.7
53.5°	135.9	135.9	136.6	137.0	139.1	140.5	141.3	142.5	143.1	142.6	141.8
54°	133.7	134.0	134.9	135.1	137.1	138.4	139.5	140.5	141.2	140.7	139.8
54.5°	131.7	131.7	133.0	133.2	135.5	136.7	137.9	138.4	139.2	138.6	138.0
55°	129.8	129.8	131.0	131.4	133.6	134.5	136.0	136.7	137.1	136.7	136.2
55.5°	128.0	128.1	128.9	129.3	131.5	132.4	133.7	134.7	135.1	134.8	134.0
56°	126.0	126.0	127.0	127.2	129.5	130.6	131.9	132.4	133.2	132.9	132.2
56.5°	123.9	124.0	125.1	125.4	127.6	128.8	130.1	130.3	131.4	130.7	130.3
57°	121.8	121.7	123.0	123.3	125.5	126.5	128.1	128.6	129.4	128.8	128.3
57.5°	119.7	119.8	121.0	121.3	123.7	124.6	126.1	126.4	127.7	126.8	126.3
58°	117.8	117.8	119.0	119.3	121.9	122.7	123.7	124.6	125.5	124.8	124.2
58.5°	115.8	115.6	117.1	117.3	119.8	120.8	121.6	122.7	123.5	122.7	122.2
59°	114.0	113.7	115.0	115.3	117.7	118.8	119.7	120.7	121.5	120.6	120.3
59.5°	111.8	111.8	112.9	113.4	115.7	116.8	117.9	118.8	119.7	118.8	118.4
60°	109.8	110.0	110.8	111.4	113.8	114.5	116.3	116.8	117.5	116.7	116.4
60.5°	107.9	107.9	108.6	109.2	111.8	112.6	113.8	114.7	115.3	114.6	114.4
61°	105.7	105.7	106.6	107.2	109.7	110.8	111.7	112.8	113.2	112.6	112.3
61.5°	103.8	103.8	104.5	105.2	107.3	108.5	109.7	110.8	111.2	110.7	110.1
62°	101.6	101.7	102.4	103.1	105.6	106.7	107.7	108.7	109.2	108.8	108.1
62.5°	99.6	99.7	100.3	101.0	103.4	104.5	105.6	106.3	107.2	106.7	106.1
63°	97.4	97.5	98.2	99.0	101.8	102.4	103.8	104.3	105.0	104.8	104.0
63.5°	95.6	95.4	96.2	96.9	99.7	100.4	101.7	102.4	103.1	102.6	101.9
64°	93.5	93.2	94.2	94.8	97.6	98.1	99.7	100.3	101.0	100.5	99.9
64.5°	91.4	91.3	92.1	92.7	95.3	96.1	97.4	98.1	99.0	98.6	98.1
65°	89.3	89.1	90.0	90.7	93.1	93.9	95.4	96.1	97.1	96.6	96.0
65.5°	87.5	87.3	88.0	88.5	91.0	92.1	93.4	94.0	94.9	94.6	93.9
66°	85.4	85.1	85.9	86.7	89.1	89.9	91.4	92.0	92.8	92.3	91.6



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	78.9	79.1	79.7	80.3	83.0	84.4	85.3	85.9	86.7	86.3	85.8
68°	76.9	77.0	77.5	78.3	81.0	82.0	83.2	83.8	84.6	84.2	83.8
68.5°	74.8	74.9	75.5	76.2	78.8	79.8	81.0	82.0	82.6	82.1	81.6
69°	72.7	72.9	73.5	74.1	76.7	77.6	79.1	79.8	80.5	79.9	79.5
69.5°	70.6	70.9	71.5	72.0	74.4	75.6	76.8	77.9	78.5	77.7	77.5
70°	68.7	68.7	69.2	69.9	72.3	73.3	74.8	75.9	76.5	75.6	75.4
70.5°	66.3	66.8	67.3	67.8	70.3	71.4	72.7	73.8	74.4	73.6	73.2
71°	64.2	64.4	65.0	65.8	68.3	69.1	70.6	71.5	72.3	71.6	71.1
71.5°	62.1	62.3	62.9	63.7	66.1	67.0	68.5	69.3	70.2	69.5	68.9
72°	60.2	60.5	60.8	61.6	63.8	65.0	66.4	67.3	68.0	67.5	66.9
72.5°	58.2	58.3	58.8	59.5	61.7	62.9	64.4	65.2	66.0	65.5	64.8
73°	56.1	56.2	56.6	57.4	59.8	60.9	62.3	63.1	63.8	63.4	62.7
73.5°	54.1	54.2	54.8	55.3	57.8	58.9	60.0	61.1	61.8	61.3	60.6
74°	52.2	52.1	52.7	53.5	55.8	56.8	57.9	59.1	59.7	59.2	58.6
74.5°	50.3	50.2	50.8	51.4	53.9	54.8	55.9	56.9	57.7	57.2	56.5
75°	48.1	48.3	48.6	49.4	51.6	52.8	54.1	54.9	55.7	55.2	54.6
75.5°	46.0	46.2	46.8	47.4	49.7	51.0	52.0	52.8	53.9	53.3	52.8
76°	44.1	44.0	44.7	45.4	47.7	48.8	50.0	50.8	51.7	51.2	50.6
76.5°	42.4	42.1	42.8	43.4	45.8	46.8	48.1	49.0	49.6	49.2	48.5
77°	40.3	40.1	40.8	41.4	43.8	44.9	46.1	46.8	47.6	47.2	46.6
77.5°	38.4	38.4	38.8	39.4	41.8	43.0	44.3	45.0	45.7	45.3	44.7
78°	36.2	36.3	36.9	37.5	39.8	40.8	42.2	43.0	43.7	43.3	42.7
78.5°	34.5	34.4	35.0	35.6	37.9	39.0	40.2	41.1	41.6	41.3	40.8
79°	32.6	32.7	33.0	33.6	36.0	37.0	38.4	39.0	39.7	39.4	38.8
79.5°	30.9	30.7	31.1	31.9	34.1	35.1	36.3	37.3	37.5	37.6	36.8
80°	29.0	28.9	29.2	30.0	32.1	33.3	34.3	35.3	35.7	35.6	34.9
80.5°	27.1	27.0	27.4	28.1	30.2	31.4	32.2	33.4	34.0	33.8	33.2
81°	25.3	25.3	25.6	26.3	28.5	29.7	30.6	31.5	32.1	31.9	31.2
81.5°	23.6	23.5	23.8	24.4	26.6	27.8	28.9	29.8	30.2	30.0	29.4
82°	22.0	21.9	22.2	22.9	24.9	25.9	26.9	28.0	28.4	28.2	27.6
82.5°	20.3	20.2	20.5	21.1	23.1	24.1	25.3	26.2	26.5	26.4	25.8
83°	18.5	18.5	18.9	19.5	21.4	22.3	23.6	24.7	24.7	24.7	24.1
83.5°	16.7	16.8	17.2	17.8	19.8	20.9	21.7	22.6	23.1	22.9	22.3
84°	15.2	15.0	15.4	16.0	18.2	19.2	20.2	21.1	21.4	21.4	20.8
84.5°	13.6	13.5	13.8	14.3	16.7	17.6	18.6	19.6	19.8	19.7	19.1
85°	11.9	11.8	12.1	12.8	14.9	16.0	16.9	17.7	18.0	18.1	17.4
85.5°	10.4	10.3	10.6	11.1	13.2	14.2	15.2	16.0	16.5	16.4	15.9
86°	8.8	8.7	9.0	9.6	11.6	12.8	13.6	14.4	14.9	14.8	14.1
86.5°	7.4	7.0	7.5	8.1	10.1	11.1	12.1	12.8	13.1	13.0	12.5
87°	5.8	5.7	6.0	6.7	8.6	9.6	10.5	11.2	11.7	11.4	11.0
87.5°	4.5	4.5	4.7	5.5	7.0	8.2	9.0	9.6	10.0	9.9	9.4
88°	3.1	3.1	3.4	3.8	5.6	6.7	7.5	8.2	8.4	8.6	7.9
88.5°	1.7	1.6	1.8	2.2	4.2	5.3	6.1	6.7	6.9	7.0	6.4



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	2.6	2.8	2.6	2.2
90.5°	0.5	0.1	0.4	0.3	0.4	0.3	0.4	0.7	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	0.6	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	0.6	0.5	0.5	0.5	0.5	0.5
110.5°	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
111°	0.5	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	0.6	0.5	0.6	0.5	0.5	0.5
113°	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.5
113.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.5
114°	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.5
114.5°	0.6	0.8	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.5
115°	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.5
115.5°	0.6	0.7	0.6	0.8	0.5	0.6	0.6	0.6	0.7	0.5	0.5
116°	0.7	0.8	0.6	0.3	0.5	0.6	0.6	0.6	0.6	0.5	0.5
116.5°	0.7	0.9	0.6	0.8	0.5	0.7	0.6	0.6	0.6	0.5	0.6
117°	0.6	1.0	0.7	0.9	0.5	0.7	0.6	0.6	0.6	0.6	0.6
117.5°	0.9	0.9	0.7	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6
118°	0.9	0.8	0.7	0.8	0.5	0.6	0.6	0.6	0.6	0.5	0.6
118.5°	0.9	1.0	0.7	0.8	0.5	0.8	0.6	0.6	0.6	0.6	0.6
119°	0.9	1.0	0.7	0.5	0.5	0.8	0.6	0.6	0.6	0.6	0.6
119.5°	1.0	1.0	0.7	0.5	0.5	0.7	0.7	0.6	0.6	0.6	0.6
120°	0.9	0.9	0.8	0.6	0.6	0.7	0.7	0.6	0.6	0.7	0.6
120.5°	0.9	0.9	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.7	0.6
121°	1.0	1.0	0.8	0.6	0.5	0.7	0.6	0.6	0.6	0.7	0.6
121.5°	1.0	1.0	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.7	0.6
122°	0.8	1.0	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.7	0.7
122.5°	0.9	0.8	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.7	0.7
123°	1.0	1.0	0.8	1.0	0.6	0.7	0.6	0.6	0.7	0.6	0.7
123.5°	1.0	1.0	0.8	0.9	0.6	0.7	0.6	0.6	0.7	0.6	0.7
124°	1.1	1.1	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.6	0.8
124.5°	1.0	1.0	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.6	0.8
125°	1.1	1.0	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.6	0.7
125.5°	1.0	1.1	0.8	0.9	0.6	0.8	0.7	0.6	0.8	0.7	0.7
126°	1.0	1.0	0.8	0.8	0.6	0.8	0.7	0.6	0.8	0.8	0.7
126.5°	1.1	1.0	0.8	0.9	0.6	0.8	0.8	0.6	0.8	0.7	0.7
127°	1.0	1.0	0.8	1.0	0.6	0.8	0.8	0.6	0.8	0.6	0.8
127.5°	1.0	1.0	0.8	0.9	0.6	0.8	0.8	0.6	0.8	0.8	0.8
128°	1.1	1.0	0.8	0.9	0.6	0.8	0.8	0.6	0.8	0.8	0.8
128.5°	1.1	1.0	0.8	0.9	0.6	0.9	0.8	0.6	0.8	0.8	0.8
129°	1.1	1.0	1.0	0.9	0.6	0.9	0.8	0.6	0.9	0.9	0.8
129.5°	1.1	1.1	1.0	0.9	0.6	0.8	0.8	0.7	0.8	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	0.6	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	1.0	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	0.8	0.8	0.8



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	0.8	0.8
136°	1.2	1.2	0.9	0.8	0.8	0.8	0.9	0.8	0.9	0.9	0.8
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	0.8	0.9
139.5°	1.2	1.1	1.1	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.9
140°	1.2	1.1	1.1	1.0	0.8	0.8	1.0	0.8	0.8	0.9	0.9
140.5°	1.2	1.1	1.0	0.9	0.8	1.0	0.9	0.8	0.8	0.9	0.9
141°	1.2	1.1	1.0	1.0	0.8	1.0	1.0	0.8	0.8	0.8	1.0
141.5°	1.2	1.1	1.0	1.0	0.8	0.9	1.1	0.8	0.8	1.0	1.0
142°	1.2	1.1	1.0	1.0	0.8	0.9	1.0	0.8	0.8	0.8	1.0
142.5°	1.2	1.1	1.0	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	0.8	0.9	1.0
143.5°	1.2	1.1	1.1	1.0	0.8	0.9	1.0	0.8	1.0	1.0	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	1.1	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	1.0	1.0
145.5°	1.2	1.1	1.2	1.0	0.8	0.9	1.1	0.9	1.0	1.1	1.0
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	1.0	1.0	1.0
147°	1.2	1.1	1.2	1.1	0.8	0.9	1.2	1.1	1.0	1.2	1.1
147.5°	1.2	1.1	1.2	1.1	0.8	0.9	1.2	1.1	1.0	1.2	1.1
148°	1.2	1.1	1.2	1.0	0.8	0.9	1.2	1.0	1.0	1.1	1.0
148.5°	1.2	1.1	1.2	1.0	0.8	0.9	1.2	1.0	1.0	1.0	1.0
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	1.0	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	1.6	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: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	1.0	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	1.0	1.5	1.5	1.4
160°	1.2	1.1	1.2	1.0	1.0	1.2	1.2	1.3	1.5	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	1.5	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	1.7	1.5	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	1.3	1.4	1.4	1.5	1.4
163.5°	1.3	1.3	1.2	1.0	1.0	1.3	1.3	1.4	1.5	1.5	1.4
164°	1.3	1.2	1.2	1.0	1.0	1.3	1.3	1.4	1.4	1.5	1.4
164.5°	1.3	1.4	1.2	1.0	1.0	1.3	1.3	1.4	1.4	1.5	1.4
165°	1.3	1.4	1.2	1.0	1.0	1.3	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	1.4	1.5	1.4
166.5°	1.3	1.4	1.2	1.0	1.0	1.3	1.3	1.4	1.5	1.5	1.4
167°	1.3	1.4	1.2	1.0	1.0	1.3	1.3	1.4	1.5	1.5	1.4
167.5°	1.3	1.4	1.2	1.0	1.0	1.3	1.3	1.4	1.8	1.5	1.4
168°	1.3	1.4	1.2	1.0	1.0	1.3	1.3	1.4	2.0	1.5	1.4
168.5°	1.3	1.4	1.2	1.0	1.2	1.3	1.3	1.4	1.5	1.5	1.4
169°	1.3	1.4	1.2	1.0	1.1	1.3	1.3	1.4	1.5	1.5	1.4
169.5°	1.3	1.4	1.2	1.0	1.1	1.3	1.3	1.4	1.5	1.5	1.4
170°	1.3	1.4	1.2	1.0	1.2	1.3	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	1.5	1.3	1.4	1.5	1.5	1.4
171.5°	1.4	1.4	1.2	1.0	1.3	1.5	1.3	1.4	1.5	1.5	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	1.3	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	1.3	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	1.3	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	1.5	1.4	1.4
178°	1.4	1.4	1.2	1.0	1.1	1.5	1.5	1.4	1.5	1.4	1.4
178.5°	1.4	1.4	1.2	1.2	1.0	1.5	1.5	1.4	1.5	1.4	1.4



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	254.8	254.8	254.8	254.8	254.8	254.8
0.5°	253.4	254.8	253.2	253.2	254.2	254.4
1°	253.5	253.9	253.4	252.8	253.9	254.5
1.5°	253.6	255.0	252.5	253.8	253.6	254.4
2°	253.4	254.5	253.1	253.3	253.1	254.4
2.5°	253.3	253.6	253.0	253.3	253.1	254.4
3°	253.2	254.0	252.9	253.2	253.3	254.4
3.5°	253.2	252.6	252.1	253.4	252.9	253.9
4°	252.7	252.6	252.7	252.6	252.4	253.7
4.5°	252.9	252.9	251.6	251.7	252.5	253.4
5°	252.5	252.8	252.0	251.5	252.5	253.3
5.5°	252.3	250.9	251.8	251.8	251.9	252.6
6°	252.2	250.8	251.9	251.4	252.0	252.2
6.5°	251.8	251.9	251.6	251.7	251.5	252.4
7°	251.4	251.7	251.1	250.7	251.0	251.7
7.5°	251.1	251.2	250.9	250.5	250.7	251.2
8°	250.7	250.9	250.9	250.1	250.7	250.4
8.5°	250.5	250.1	250.2	250.0	250.2	250.3
9°	250.0	249.4	248.9	249.5	249.8	250.3
9.5°	249.7	249.3	247.4	249.4	248.9	249.9
10°	249.4	248.9	247.8	248.3	248.3	249.3
10.5°	248.9	247.8	247.9	248.8	247.8	248.9
11°	248.4	248.0	246.9	248.2	247.6	248.2
11.5°	247.8	247.1	247.5	247.7	246.8	247.6
12°	247.2	246.6	245.6	246.6	246.9	246.9
12.5°	246.8	246.8	244.6	246.5	246.4	246.1
13°	246.2	246.0	244.4	245.1	245.2	245.3
13.5°	245.5	245.2	245.0	244.5	244.3	245.1
14°	244.9	244.2	243.5	243.6	244.0	244.8
14.5°	244.2	243.0	243.3	243.6	243.3	243.7
15°	243.4	242.9	242.1	242.2	242.4	242.8
15.5°	243.0	242.0	241.7	241.3	241.3	242.5
16°	242.2	241.5	240.5	240.2	240.7	241.9
16.5°	241.5	240.3	240.0	240.1	240.3	241.3
17°	240.8	239.7	239.0	239.1	239.9	240.4
17.5°	239.8	239.4	238.0	238.6	239.2	239.7
18°	239.2	239.4	237.6	237.9	238.3	238.9
18.5°	238.3	238.1	236.3	237.5	237.3	237.9
19°	237.6	236.4	235.5	236.5	236.2	236.8
19.5°	236.9	236.1	234.4	235.7	235.2	236.2
20°	235.8	235.4	234.6	234.4	234.1	235.1
20.5°	234.9	234.1	232.3	233.7	233.0	234.5
21°	234.0	233.3	232.6	232.0	232.3	233.2



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	231.1	231.1	228.8	229.7	229.4	230.0
23°	230.2	230.0	228.2	228.9	228.5	228.8
23.5°	229.4	228.1	227.2	227.7	227.6	227.7
24°	228.2	227.0	226.8	226.6	226.4	226.8
24.5°	227.1	225.6	225.0	225.8	225.4	226.0
25°	226.0	226.0	224.5	224.6	224.2	224.9
25.5°	225.2	224.8	223.8	223.1	222.7	223.8
26°	224.0	223.4	222.2	221.9	221.5	222.6
26.5°	223.0	222.4	221.5	220.7	220.5	221.2
27°	221.9	221.4	220.6	219.5	219.3	219.9
27.5°	220.8	219.8	219.5	218.6	218.3	218.6
28°	219.5	218.6	218.2	217.4	216.9	217.6
28.5°	218.5	217.2	216.9	216.1	215.6	216.4
29°	217.2	216.1	215.8	215.2	214.1	215.1
29.5°	215.8	215.0	214.6	214.1	213.3	213.8
30°	214.8	214.4	213.3	212.8	212.0	212.6
30.5°	213.8	212.9	211.9	211.3	210.8	211.5
31°	212.5	211.3	210.5	210.0	209.6	210.1
31.5°	210.9	210.0	209.1	208.8	208.1	208.7
32°	209.8	208.4	206.3	207.2	206.9	207.5
32.5°	208.5	207.3	205.5	205.6	205.6	206.2
33°	207.0	206.2	204.9	204.3	204.0	204.6
33.5°	205.8	205.2	203.0	202.9	202.5	203.1
34°	204.5	203.5	201.4	201.6	201.0	201.8
34.5°	203.0	202.0	200.8	200.1	200.0	200.3
35°	201.6	201.0	199.4	198.9	198.7	199.0
35.5°	200.3	199.2	198.0	197.4	197.2	197.7
36°	198.9	198.2	196.2	196.1	195.6	196.2
36.5°	197.3	196.7	193.9	194.6	194.1	194.7
37°	195.7	195.2	192.7	193.3	192.5	193.2
37.5°	194.3	193.8	192.1	192.0	190.9	191.4
38°	192.9	192.2	190.3	190.5	189.6	189.7
38.5°	191.6	190.7	189.2	188.5	188.2	188.1
39°	190.1	188.8	187.4	187.2	186.6	186.6
39.5°	188.5	186.8	185.6	185.7	185.2	185.1
40°	187.0	185.3	184.0	184.0	183.8	183.6
40.5°	185.4	183.9	182.1	182.4	182.3	182.1
41°	183.9	182.7	180.8	180.6	180.8	180.3
41.5°	182.2	181.1	179.4	178.9	178.9	178.8
42°	180.5	179.4	177.6	177.2	177.0	177.4
42.5°	178.9	177.9	175.7	175.5	175.2	176.1
43°	177.3	175.9	174.5	174.1	173.5	174.2
43.5°	175.6	174.3	173.1	172.5	172.1	172.5



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	170.7	168.7	168.1	167.0	166.9	167.1
45.5°	169.0	166.8	166.3	165.5	165.1	165.5
46°	167.2	165.6	164.7	163.7	163.5	163.7
46.5°	165.5	164.2	162.8	161.6	161.8	161.9
47°	163.6	162.3	161.0	159.9	159.9	160.1
47.5°	161.9	161.1	159.3	158.4	158.2	158.4
48°	160.1	159.1	157.2	156.5	156.3	156.7
48.5°	158.5	157.3	154.9	154.7	154.4	154.9
49°	156.8	155.6	153.4	152.9	152.6	153.2
49.5°	155.0	153.6	151.9	151.2	150.9	151.2
50°	153.2	151.6	150.3	149.5	149.0	149.5
50.5°	151.3	149.7	148.7	147.7	147.3	147.4
51°	149.5	147.9	146.9	145.9	145.4	145.5
51.5°	147.8	145.7	144.9	144.2	143.4	143.5
52°	145.9	143.8	142.9	142.3	141.4	141.7
52.5°	143.9	141.8	141.3	140.4	139.7	139.4
53°	141.9	140.3	139.0	138.3	137.8	137.7
53.5°	140.1	138.4	136.9	136.6	135.6	135.9
54°	138.2	136.6	134.8	134.4	133.9	133.7
54.5°	136.3	134.1	132.9	132.4	132.3	131.7
55°	134.6	132.5	130.9	130.4	130.2	129.8
55.5°	132.6	130.6	129.3	128.4	128.1	128.0
56°	130.4	128.8	127.1	126.4	126.0	126.0
56.5°	128.5	127.0	124.8	124.5	123.9	123.9
57°	126.5	124.8	123.3	122.4	122.0	121.8
57.5°	124.4	122.5	120.9	120.4	120.0	119.7
58°	122.5	120.5	119.2	118.3	118.0	117.8
58.5°	120.5	118.5	117.2	116.6	115.8	115.8
59°	118.6	116.5	115.3	114.9	113.7	114.0
59.5°	116.6	114.5	113.7	112.7	112.0	111.8
60°	114.6	112.4	111.6	110.6	109.7	109.8
60.5°	112.5	110.8	109.0	108.3	107.6	107.9
61°	110.5	108.9	106.8	106.2	105.5	105.7
61.5°	108.5	106.6	105.1	104.2	103.5	103.8
62°	106.5	104.9	102.9	102.1	101.4	101.6
62.5°	104.5	102.7	101.0	100.1	99.2	99.6
63°	102.5	100.5	99.0	97.9	97.3	97.4
63.5°	100.4	98.3	96.9	95.8	95.1	95.6
64°	98.5	96.3	94.9	93.7	93.2	93.5
64.5°	96.5	94.2	92.8	91.6	91.3	91.4
65°	94.5	92.1	90.6	89.8	89.0	89.3
65.5°	92.3	90.2	88.6	87.7	87.1	87.5
66°	90.2	88.0	86.3	85.9	85.2	85.4



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	84.4	81.6	80.9	79.6	78.8	78.9
68°	82.3	79.8	78.6	77.4	77.2	76.9
68.5°	80.1	77.8	76.6	75.5	75.0	74.8
69°	78.0	75.7	74.5	73.6	73.0	72.7
69.5°	76.0	73.5	72.3	71.3	70.6	70.6
70°	73.9	71.4	70.1	69.2	68.5	68.7
70.5°	71.7	69.6	68.3	67.2	66.6	66.3
71°	69.6	67.7	66.2	65.1	64.5	64.2
71.5°	67.5	65.6	64.0	63.1	62.5	62.1
72°	65.5	63.5	61.8	61.1	60.3	60.2
72.5°	63.4	61.4	59.7	59.1	58.4	58.2
73°	61.4	59.2	57.9	56.9	56.2	56.1
73.5°	59.2	57.0	56.0	55.0	54.2	54.1
74°	57.2	55.0	53.8	53.0	52.3	52.2
74.5°	55.1	53.1	51.8	51.0	50.3	50.3
75°	53.3	51.1	49.9	49.0	48.5	48.1
75.5°	51.2	49.1	47.9	46.9	46.3	46.0
76°	49.3	47.2	46.0	44.9	44.3	44.1
76.5°	47.2	45.1	44.0	43.0	42.2	42.4
77°	45.3	43.1	42.0	41.1	40.4	40.3
77.5°	43.3	41.2	40.1	39.0	38.5	38.4
78°	41.4	39.1	38.2	37.2	36.5	36.2
78.5°	39.3	37.3	36.2	35.2	34.7	34.5
79°	37.4	35.5	34.4	33.4	32.9	32.6
79.5°	35.5	33.7	32.4	31.7	31.3	30.9
80°	33.8	31.8	30.6	29.8	29.1	29.0
80.5°	32.0	30.0	28.8	27.9	27.3	27.1
81°	30.1	28.1	27.1	26.0	25.6	25.3
81.5°	28.3	26.4	25.4	24.5	23.8	23.6
82°	26.5	24.7	23.5	22.6	22.2	22.0
82.5°	24.8	22.9	21.9	21.2	20.4	20.3
83°	23.1	21.3	20.3	19.4	19.0	18.5
83.5°	21.4	19.7	18.7	17.9	17.1	16.7
84°	19.8	18.0	17.0	16.1	15.6	15.2
84.5°	18.2	16.4	15.4	14.5	14.0	13.6
85°	16.6	14.7	13.7	13.0	12.3	11.9
85.5°	14.9	13.1	12.1	11.2	10.7	10.4
86°	13.3	11.5	10.6	9.8	9.2	8.8
86.5°	11.8	10.0	9.2	8.3	7.7	7.4
87°	10.2	8.5	7.6	6.9	6.3	5.8
87.5°	8.7	7.1	6.3	5.5	4.8	4.5
88°	7.1	5.7	5.0	4.1	3.4	3.1
88.5°	5.7	4.4	3.6	2.7	2.1	1.7



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	0.6
113.5°	0.6	0.5	0.5	0.4	0.3	0.6
114°	0.6	0.5	0.5	0.4	0.4	0.6
114.5°	0.6	0.5	0.5	0.4	0.4	0.6
115°	0.6	0.5	0.5	0.4	0.5	0.6
115.5°	0.7	0.5	0.5	0.4	0.5	0.6
116°	0.6	0.5	0.5	0.4	0.5	0.7
116.5°	0.6	0.5	0.6	0.5	0.5	0.7
117°	0.6	0.5	0.6	0.5	0.5	0.6
117.5°	0.6	0.5	0.6	0.6	0.6	0.9
118°	0.7	0.5	0.7	0.6	0.5	0.9
118.5°	0.6	0.6	0.8	0.6	0.6	0.9
119°	0.6	0.6	0.8	0.6	0.6	0.9
119.5°	0.7	0.6	0.9	0.6	0.6	1.0
120°	0.8	0.6	0.9	0.6	0.6	0.9
120.5°	0.7	0.6	1.0	0.6	0.6	0.9
121°	0.7	0.6	1.0	0.6	0.6	1.0
121.5°	0.7	0.6	0.9	0.6	0.6	1.0
122°	0.7	0.7	1.1	0.6	0.6	0.8
122.5°	0.7	0.8	1.1	0.6	0.6	0.9
123°	0.7	0.8	1.1	0.6	0.7	1.0
123.5°	0.7	1.0	1.0	0.6	0.6	1.0
124°	0.7	1.0	1.0	0.6	0.8	1.1
124.5°	0.7	1.0	1.0	0.6	0.8	1.0
125°	0.7	1.0	1.2	0.6	0.7	1.1
125.5°	0.7	1.0	1.1	0.6	0.7	1.0
126°	0.7	1.0	1.0	0.6	0.7	1.0
126.5°	0.7	1.0	1.0	0.6	0.8	1.1
127°	0.7	1.0	1.1	0.6	0.8	1.0
127.5°	0.7	1.0	1.2	0.6	0.8	1.0
128°	0.7	1.1	1.2	0.6	0.8	1.1
128.5°	0.8	1.0	1.2	0.6	0.8	1.1
129°	0.9	1.0	1.1	0.6	0.8	1.1
129.5°	0.9	1.1	1.1	0.7	0.8	1.1
130°	0.9	1.0	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	1.0	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	1.0	1.1	0.8	1.2



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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°	0.8	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	1.0	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: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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	1.5	1.6	1.3
167°	1.2	1.2	1.5	1.5	1.6	1.3
167.5°	1.2	1.2	1.5	1.5	1.6	1.3
168°	1.2	1.2	1.5	1.5	1.6	1.3
168.5°	1.2	1.2	1.5	1.6	1.6	1.3
169°	1.2	1.3	1.5	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	1.7	1.7	1.6	1.4
171°	1.2	1.3	1.7	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	1.8	1.6	1.6	1.4
173°	1.2	1.9	1.8	1.6	1.6	1.4
173.5°	1.2	1.9	1.9	1.6	1.7	1.4
174°	1.2	2.0	1.9	1.6	1.7	1.4
174.5°	1.2	2.1	1.9	1.6	1.9	1.4
175°	1.2	2.1	1.9	1.6	1.7	1.4
175.5°	1.2	2.0	1.9	1.6	1.7	1.4
176°	1.2	2.0	1.9	1.6	1.6	1.4
176.5°	1.2	2.0	1.9	1.6	1.6	1.4
177°	1.2	2.0	1.9	1.6	1.6	1.4
177.5°	1.2	2.0	1.9	1.6	1.5	1.4
178°	1.2	2.0	1.9	1.6	1.5	1.4
178.5°	1.2	2.0	1.9	1.6	1.5	1.4



TEST NUMBER: P417432

CATALOG NUMBER: SMD6R69SWH - 2700K

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°	232.0	231.2	232.8	232.0	233.4	233.2	233.6	234.5	235.4	234.7	234.8
22°	230.9	230.4	231.8	231.0	232.7	231.9	233.2	233.4	234.4	233.6	234.0



44°	170.6	170.3	171.4	171.8	173.3	174.3	175.6	175.6	176.9	176.1	175.8
44.5°	169.1	168.7	169.7	170.0	171.5	172.5	173.7	173.8	175.1	174.3	174.1



66.5°	83.1	83.3	84.0	84.5	87.0	88.0	89.1	89.9	90.7	90.3	89.6
67°	80.9	81.2	81.8	82.4	85.0	86.4	87.0	87.7	88.5	88.3	87.6



89°	0.8	0.7	0.8	1.1	2.8	3.9	4.8	5.3	5.5	5.4	4.9
89.5°	0.5	0.5	0.5	0.5	1.1	2.4	3.4	3.9	4.1	3.9	3.6



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	0.8	0.8	0.8
134.5°	1.2	1.2	0.9	1.0	0.8	0.8	0.8	0.7	0.8	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	1.5	1.4	1.4
179.5°	1.4	1.4	1.2	1.2	1.6	1.9	1.8	1.6	1.5	1.4	1.4





21.5°	233.4	233.0	231.6	231.1	231.2	232.0
22°	232.3	232.1	231.0	230.5	230.3	230.9



44°	174.0	172.6	171.2	170.6	170.4	170.6
44.5°	172.4	170.6	169.7	168.7	168.7	169.1



66.5°	88.3	86.1	84.4	83.7	83.1	83.1
67°	86.5	84.0	82.6	81.6	81.0	80.9



89°	4.5	3.0	2.2	1.5	1.0	0.8
89.5°	3.0	1.7	1.4	0.8	0.5	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	1.9	1.6	1.5	1.4
179.5°	1.2	2.0	1.9	1.6	1.5	1.4



(END OF REPORT)