

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: P417434

Luminaire Tested: **SMD6R69SWH - 3500K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417434
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 - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772.6 lumens
Efficiency: N/A
Efficacy: 86.8 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

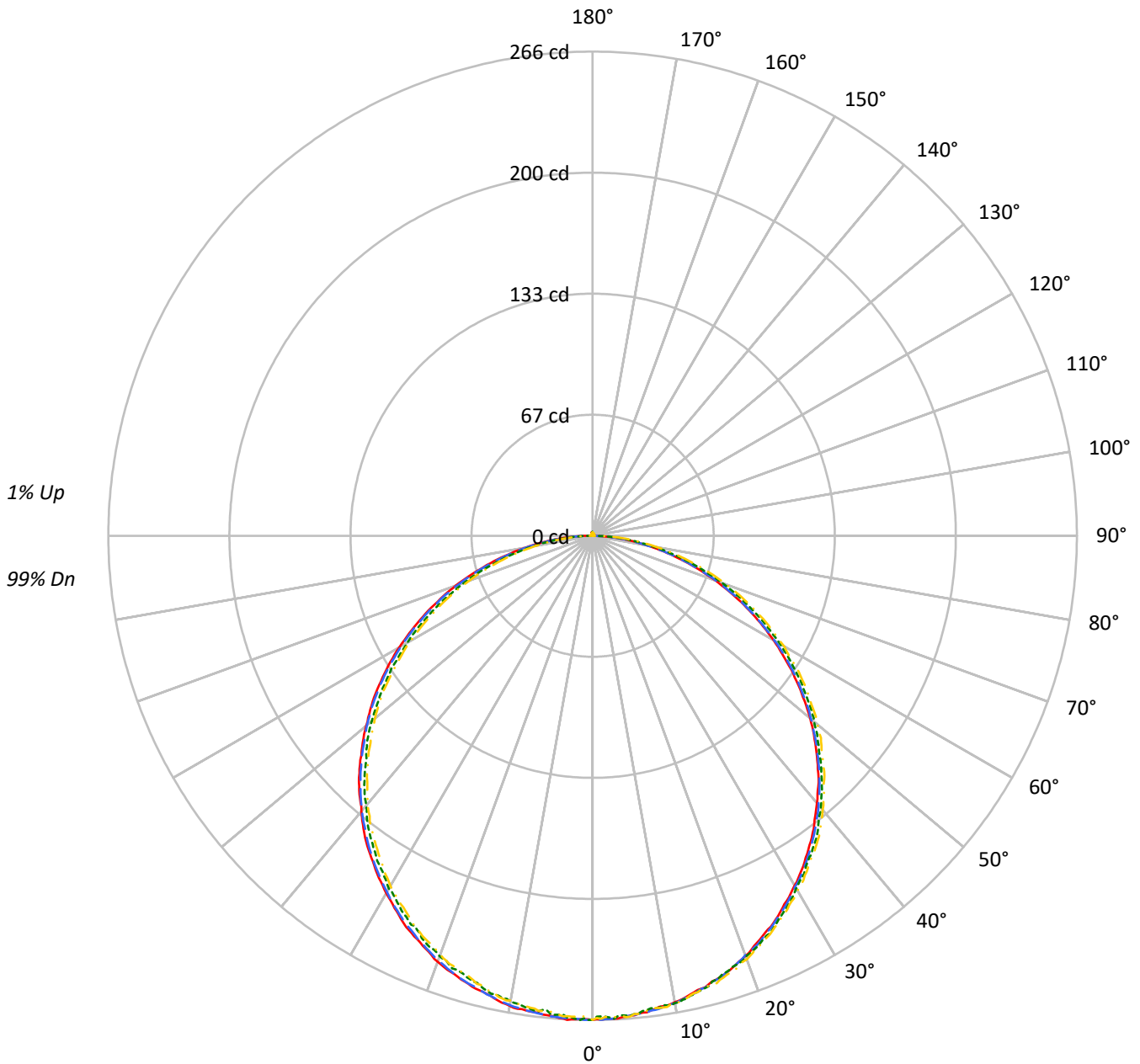
Input Watts (W): 8.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	14582	14582	14582	14582
5°	14555	14517	14566	14522
10°	14484	14507	14601	14468
15°	14381	14393	14546	14393
20°	14322	14357	14532	14340
25°	14202	14311	14450	14269
30°	14046	14167	14350	14173
35°	13900	14087	14275	14040
40°	13719	13962	14141	13847
45°	13521	13746	14048	13653
50°	13304	13543	13842	13501
55°	12951	13333	13677	13218
60°	12576	13025	13442	12872
65°	12089	12608	13140	12479
70°	11492	12101	12807	11957
75°	10654	11416	12327	11311
80°	9534	10607	11775	10481
85°	7799	9749	11825	9624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	3.2
10°-20°	71.8	9.3
20°-30°	108.7	14.1
30°-40°	131.3	17.0
40°-50°	136.6	17.7
50°-60°	124.2	16.1
60°-70°	95.8	12.4
70°-80°	57.0	7.4
80°-90°	17.4	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°	0.6	0.1
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	205.6	26.6
0°-40°	336.9	43.6
0°-60°	597.7	77.4
0°-90°	767.9	99.4
90°-120°	1.4	0.2
90°-150°	3.6	0.5
90°-180°	5.0	0.6
0°-180°	772.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	266	266	266	266	266	
5°	264	264	265	264	264	25
15°	253	254	256	254	253	72
25°	235	237	239	236	235	108
35°	208	210	213	210	208	130
45°	174	177	181	176	174	135
55°	136	140	143	138	136	121
65°	93	97	101	96	93	92
75°	50	54	58	53	50	53
85°	12	16	19	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	2	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°	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0	266.0
0.5°	265.6	265.2	265.7	264.4	264.2	264.4	264.9	265.0	265.7	265.5	266.0
1°	265.8	265.4	266.0	264.5	264.1	264.6	265.5	264.3	265.6	265.8	266.0
1.5°	265.6	265.4	265.7	264.1	264.3	265.0	264.5	264.3	265.7	265.4	265.7
2°	265.6	265.0	265.7	264.1	264.8	264.8	264.7	264.2	265.8	265.2	265.5
2.5°	265.6	264.9	265.5	263.9	265.7	264.1	264.4	264.2	265.9	265.0	265.7
3°	265.6	264.6	265.3	263.7	264.2	264.8	265.1	263.5	266.3	264.8	265.5
3.5°	265.0	264.5	265.0	263.7	264.0	263.8	264.2	263.6	265.8	264.6	265.5
4°	264.8	264.3	264.6	264.1	264.2	263.1	265.1	264.3	265.6	264.4	265.3
4.5°	264.5	264.0	264.4	263.7	264.4	262.2	264.8	264.2	264.9	264.1	265.0
5°	264.5	263.8	264.1	263.1	263.8	262.1	263.8	264.0	264.7	263.8	265.0
5.5°	263.8	263.3	263.9	262.9	263.6	262.3	263.9	263.4	264.6	263.5	264.7
6°	263.4	262.9	263.8	262.7	262.6	262.4	263.7	264.1	264.5	263.4	264.3
6.5°	263.5	262.7	263.5	262.3	262.4	262.3	262.7	263.1	263.9	263.3	264.1
7°	262.8	262.2	262.7	261.9	261.5	262.5	262.7	263.1	263.7	263.0	263.8
7.5°	262.3	262.1	262.7	261.7	261.7	261.3	261.7	263.0	263.6	262.5	263.5
8°	261.4	261.8	262.5	261.7	261.8	261.9	262.0	262.1	263.3	262.3	263.3
8.5°	261.3	261.2	261.9	261.2	260.7	260.7	262.0	261.2	263.0	262.0	262.9
9°	261.3	260.7	261.5	260.6	261.2	260.1	262.1	261.0	263.2	261.9	262.5
9.5°	260.9	260.4	261.0	260.3	261.6	261.0	261.0	260.8	262.9	261.4	262.4
10°	260.2	259.9	260.7	259.9	260.6	259.6	260.5	260.5	262.3	261.2	261.8
10.5°	259.8	259.1	260.1	259.3	260.8	259.5	260.6	260.3	261.7	260.7	261.3
11°	259.2	258.6	259.5	258.9	259.6	259.0	259.2	259.7	261.3	260.2	260.8
11.5°	258.5	257.9	258.7	258.2	259.5	258.2	259.2	259.1	260.5	259.9	260.2
12°	257.7	257.6	258.5	257.7	258.3	258.7	258.2	258.7	259.8	259.3	259.6
12.5°	257.0	256.5	257.7	256.5	258.1	257.4	257.4	258.6	258.9	258.7	258.9
13°	256.1	255.7	256.7	255.5	257.1	256.7	257.3	257.4	258.4	257.9	258.5
13.5°	255.9	255.4	256.1	255.7	256.6	256.0	256.2	257.1	257.7	257.4	257.7
14°	255.6	254.8	255.8	255.0	256.0	254.9	256.2	256.0	257.4	256.8	257.2
14.5°	254.5	253.9	254.8	253.9	255.5	254.9	255.1	255.6	257.0	255.9	256.3
15°	253.4	253.2	254.1	253.2	253.6	254.5	255.1	255.4	256.3	255.5	255.8
15.5°	253.2	252.3	253.3	252.9	253.2	254.1	255.1	254.6	255.4	254.8	255.3
16°	252.6	251.7	252.8	252.4	252.5	253.4	253.7	254.4	254.8	254.2	254.5
16.5°	251.9	250.9	251.9	251.6	251.2	252.3	253.2	254.0	254.3	253.5	254.0
17°	251.0	249.8	251.0	250.4	250.8	251.6	252.2	253.1	253.3	252.7	253.1
17.5°	250.3	249.0	250.5	249.7	250.1	250.8	251.8	252.2	252.5	251.9	252.5
18°	249.4	248.0	249.3	248.8	249.0	249.6	251.2	251.5	251.9	250.9	251.5
18.5°	248.3	247.0	248.3	247.7	248.6	248.6	250.4	250.7	251.5	250.0	250.9
19°	247.3	245.9	247.4	246.7	248.2	248.0	248.7	250.0	250.7	249.3	249.9
19.5°	246.6	245.2	246.5	245.9	247.5	246.6	248.1	248.5	249.8	248.4	249.1
20°	245.5	243.8	245.3	245.0	246.1	246.2	247.6	247.5	249.1	247.6	248.2
20.5°	244.8	243.1	244.5	244.0	245.3	245.1	246.5	246.7	248.3	246.6	247.3
21°	243.5	242.2	243.7	242.9	244.7	243.9	245.4	245.8	246.9	246.0	246.2



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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°	240.1	239.2	240.9	240.2	241.7	241.4	242.6	242.9	243.8	242.8	243.2
23°	238.9	238.2	239.7	239.2	240.5	239.7	241.4	241.8	242.7	241.9	242.2
23.5°	237.8	237.0	238.7	238.3	239.6	240.1	240.5	240.8	241.7	240.9	241.3
24°	236.7	236.1	237.6	237.2	239.1	237.9	239.7	239.8	240.9	240.0	240.1
24.5°	236.0	235.0	236.5	236.1	237.9	237.7	238.4	238.9	239.8	239.0	239.0
25°	234.8	233.6	235.3	234.8	236.6	236.7	237.1	237.6	238.9	238.0	237.9
25.5°	233.6	232.5	234.1	233.7	235.3	235.7	236.4	236.4	238.1	236.9	237.1
26°	232.4	231.8	232.7	232.8	233.8	234.7	234.7	235.9	236.8	235.7	236.1
26.5°	230.9	230.2	231.7	231.7	232.8	233.6	233.7	234.7	235.5	234.5	234.7
27°	229.6	228.9	230.4	230.6	231.5	231.9	232.6	233.5	234.1	233.3	233.5
27.5°	228.2	227.9	229.3	229.2	230.7	230.6	231.5	232.4	232.8	232.2	232.3
28°	227.2	226.5	228.0	227.8	229.3	229.5	229.9	231.0	231.7	231.0	231.2
28.5°	226.0	225.4	226.7	226.5	228.1	228.4	228.8	229.7	230.2	229.8	229.9
29°	224.5	224.4	225.3	225.2	226.7	227.3	228.0	228.7	229.0	228.6	228.8
29.5°	223.2	223.0	224.0	224.0	225.2	225.6	226.7	227.5	227.9	227.4	227.2
30°	221.9	221.5	222.6	222.8	223.8	224.6	225.2	226.3	226.7	226.0	226.0
30.5°	220.8	220.3	221.6	221.9	222.5	223.2	223.8	224.9	225.4	224.8	224.7
31°	219.3	219.2	220.4	220.2	221.1	222.2	223.0	223.4	224.0	223.5	223.5
31.5°	217.9	218.0	219.0	218.8	220.2	220.9	221.8	221.9	222.8	222.1	222.0
32°	216.6	216.2	217.2	217.5	219.1	219.3	220.0	220.6	221.6	220.9	220.8
32.5°	215.3	214.7	216.0	216.2	217.3	217.5	218.9	219.5	220.3	219.6	219.4
33°	213.7	213.3	214.8	214.5	215.6	216.4	217.2	217.8	218.8	218.2	218.1
33.5°	212.1	212.1	213.3	212.9	214.3	214.4	216.0	216.2	217.3	216.9	216.7
34°	210.7	210.7	211.8	211.5	213.0	213.3	214.4	215.2	215.9	215.6	215.3
34.5°	209.2	209.2	210.4	209.9	212.3	211.6	213.1	213.8	214.6	214.1	213.9
35°	207.7	207.7	208.9	208.5	210.5	210.3	212.2	212.4	213.3	212.6	212.5
35.5°	206.4	206.4	207.4	207.0	209.1	209.3	210.7	211.0	212.0	211.2	211.1
36°	204.9	204.9	205.8	205.5	208.0	207.8	209.3	209.3	210.6	209.8	209.7
36.5°	203.2	203.3	204.4	204.1	206.6	206.3	208.0	207.6	209.2	208.5	208.1
37°	201.7	201.6	202.8	202.6	205.1	204.6	206.6	206.2	207.7	206.9	206.5
37.5°	199.9	200.0	201.1	201.1	203.4	202.8	204.9	204.5	205.9	205.3	204.9
38°	198.1	198.2	199.6	199.4	201.3	201.4	203.2	203.1	204.4	203.4	203.3
38.5°	196.4	196.5	197.9	197.9	199.5	200.3	201.8	201.7	202.7	201.7	201.9
39°	194.8	195.0	196.4	196.3	197.9	198.6	200.0	199.9	201.1	200.2	200.4
39.5°	193.3	193.4	194.9	194.6	196.8	197.0	198.3	198.3	199.3	198.6	198.7
40°	191.7	191.5	193.1	193.0	195.1	195.5	196.6	196.9	197.6	197.0	197.0
40.5°	190.2	190.0	191.2	191.4	193.4	193.9	195.1	195.3	195.7	195.4	195.3
41°	188.3	188.2	189.7	189.7	191.5	192.1	193.2	193.5	194.3	193.6	193.9
41.5°	186.6	186.6	187.9	188.1	189.7	190.4	191.9	191.9	192.8	192.0	192.1
42°	185.2	184.7	186.2	186.3	188.3	188.4	189.9	190.2	191.3	190.4	190.5
42.5°	183.8	183.4	184.5	184.5	186.4	186.6	188.0	188.5	189.8	188.8	188.7
43°	181.9	181.6	182.6	183.0	184.7	185.1	186.1	186.9	188.1	187.2	186.9
43.5°	180.0	179.6	180.8	181.2	182.7	183.4	184.8	185.1	186.5	185.5	185.2



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CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	174.4	174.3	175.4	175.5	177.3	178.0	179.3	179.6	181.2	180.2	179.8
45.5°	172.8	172.6	173.5	173.9	175.4	176.2	177.6	177.8	179.2	178.4	178.1
46°	170.9	170.6	171.6	172.2	173.4	174.6	175.7	176.2	177.4	176.7	176.4
46.5°	169.0	168.8	169.8	170.3	171.4	173.0	173.8	174.1	175.2	175.0	174.5
47°	167.2	166.9	168.0	168.4	170.1	170.9	171.9	172.4	173.5	173.1	172.7
47.5°	165.4	164.8	166.1	166.5	168.0	169.1	170.6	170.5	171.8	171.2	170.7
48°	163.6	163.1	164.2	164.5	166.3	167.2	168.7	169.0	170.0	169.4	168.8
48.5°	161.8	161.0	162.2	162.5	164.7	165.7	167.5	167.2	168.0	167.6	167.0
49°	159.9	159.3	160.4	160.6	162.7	164.0	164.9	165.3	166.4	165.7	165.2
49.5°	157.8	157.4	158.5	158.9	160.5	161.9	163.2	163.7	164.3	163.8	163.5
50°	156.0	155.6	156.6	157.0	158.8	160.1	161.0	161.7	162.3	161.9	161.7
50.5°	153.9	153.6	154.8	155.0	157.3	158.4	159.3	160.0	160.3	159.9	159.9
51°	151.9	151.6	153.0	153.0	155.2	156.4	157.8	158.1	158.7	158.2	157.7
51.5°	149.8	149.8	151.1	151.0	153.4	154.6	155.5	156.1	156.7	156.2	156.0
52°	147.9	147.8	148.9	149.1	151.5	152.6	153.3	154.0	155.0	154.6	154.2
52.5°	145.6	146.0	146.8	147.1	149.2	150.4	151.3	151.9	153.1	152.8	152.1
53°	143.7	144.0	144.7	145.0	147.2	148.6	149.5	150.3	151.2	150.9	150.1
53.5°	141.9	141.8	142.6	143.0	145.2	146.7	147.5	148.8	149.4	148.9	148.1
54°	139.6	139.9	140.8	141.1	143.1	144.5	145.7	146.7	147.4	146.9	146.0
54.5°	137.5	137.5	138.8	139.1	141.5	142.7	144.0	144.5	145.4	144.7	144.1
55°	135.5	135.5	136.8	137.2	139.5	140.4	142.0	142.8	143.1	142.7	142.2
55.5°	133.7	133.8	134.6	135.0	137.3	138.3	139.6	140.6	141.1	140.7	139.9
56°	131.6	131.6	132.6	132.8	135.2	136.4	137.7	138.3	139.1	138.7	138.0
56.5°	129.3	129.5	130.6	130.9	133.2	134.5	135.8	136.1	137.1	136.5	136.0
57°	127.2	127.1	128.4	128.7	131.1	132.0	133.7	134.2	135.1	134.4	134.0
57.5°	125.0	125.0	126.4	126.6	129.2	130.1	131.6	132.0	133.3	132.4	131.8
58°	123.0	122.9	124.2	124.5	127.2	128.1	129.1	130.1	131.1	130.3	129.7
58.5°	120.9	120.7	122.2	122.5	125.1	126.1	126.9	128.1	128.9	128.1	127.5
59°	119.0	118.7	120.0	120.4	122.8	124.0	125.0	126.0	126.9	126.0	125.6
59.5°	116.7	116.7	117.9	118.4	120.8	121.9	123.1	124.0	125.0	124.0	123.6
60°	114.7	114.8	115.7	116.3	118.8	119.6	121.4	122.0	122.6	121.9	121.5
60.5°	112.7	112.6	113.4	114.1	116.7	117.6	118.8	119.8	120.4	119.6	119.5
61°	110.3	110.4	111.3	111.9	114.5	115.7	116.6	117.7	118.2	117.6	117.2
61.5°	108.4	108.3	109.1	109.8	112.0	113.3	114.5	115.7	116.1	115.6	114.9
62°	106.1	106.2	106.9	107.6	110.2	111.4	112.5	113.5	114.0	113.5	112.9
62.5°	104.0	104.1	104.7	105.4	108.0	109.1	110.3	111.0	111.9	111.4	110.8
63°	101.7	101.8	102.5	103.3	106.3	106.9	108.4	108.9	109.7	109.4	108.5
63.5°	99.8	99.6	100.5	101.1	104.1	104.8	106.2	106.9	107.6	107.1	106.4
64°	97.6	97.3	98.3	98.9	101.9	102.4	104.1	104.7	105.4	104.9	104.3
64.5°	95.4	95.3	96.1	96.8	99.4	100.3	101.7	102.4	103.4	102.9	102.4
65°	93.2	93.1	93.9	94.7	97.2	98.1	99.6	100.3	101.3	100.8	100.2
65.5°	91.4	91.2	91.9	92.4	95.0	96.1	97.5	98.1	99.1	98.7	98.0
66°	89.2	88.8	89.7	90.5	93.0	93.8	95.4	96.1	96.9	96.4	95.6



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	82.4	82.6	83.2	83.9	86.6	88.1	89.0	89.7	90.5	90.1	89.6
68°	80.3	80.4	80.9	81.7	84.5	85.6	86.8	87.5	88.3	87.9	87.5
68.5°	78.1	78.2	78.8	79.6	82.2	83.3	84.5	85.6	86.2	85.7	85.2
69°	75.9	76.1	76.7	77.4	80.1	81.1	82.6	83.3	84.1	83.4	83.0
69.5°	73.7	74.0	74.6	75.2	77.6	78.9	80.2	81.3	81.9	81.1	80.9
70°	71.7	71.7	72.3	72.9	75.5	76.5	78.0	79.2	79.9	79.0	78.7
70.5°	69.3	69.7	70.2	70.8	73.4	74.5	75.9	77.0	77.7	76.9	76.4
71°	67.0	67.2	67.9	68.7	71.4	72.2	73.7	74.7	75.5	74.8	74.2
71.5°	64.8	65.0	65.7	66.5	69.0	70.0	71.5	72.4	73.3	72.6	72.0
72°	62.9	63.1	63.5	64.3	66.6	67.9	69.3	70.2	71.0	70.5	69.9
72.5°	60.7	60.8	61.3	62.1	64.5	65.6	67.2	68.1	68.9	68.4	67.7
73°	58.5	58.7	59.1	59.9	62.4	63.5	65.0	65.9	66.6	66.2	65.5
73.5°	56.5	56.6	57.2	57.7	60.3	61.4	62.7	63.8	64.5	64.0	63.3
74°	54.4	54.4	55.0	55.8	58.2	59.3	60.4	61.7	62.3	61.8	61.2
74.5°	52.5	52.4	53.1	53.7	56.3	57.2	58.4	59.4	60.2	59.8	59.0
75°	50.3	50.4	50.8	51.5	53.9	55.1	56.5	57.3	58.2	57.7	57.0
75.5°	48.0	48.2	48.9	49.5	51.8	53.2	54.3	55.2	56.3	55.6	55.1
76°	46.0	45.9	46.7	47.4	49.7	50.9	52.2	53.0	54.0	53.5	52.8
76.5°	44.2	44.0	44.6	45.3	47.8	48.9	50.2	51.1	51.8	51.4	50.7
77°	42.0	41.9	42.6	43.2	45.7	46.9	48.2	48.9	49.6	49.3	48.7
77.5°	40.1	40.1	40.5	41.2	43.6	44.8	46.2	47.0	47.7	47.3	46.6
78°	37.8	37.8	38.5	39.2	41.6	42.6	44.1	44.9	45.6	45.2	44.6
78.5°	36.0	35.9	36.5	37.2	39.6	40.7	41.9	42.9	43.5	43.1	42.6
79°	34.1	34.1	34.5	35.1	37.6	38.7	40.1	40.7	41.4	41.2	40.5
79.5°	32.2	32.1	32.5	33.3	35.6	36.7	37.9	38.9	39.2	39.2	38.4
80°	30.2	30.2	30.5	31.3	33.6	34.7	35.8	36.8	37.3	37.2	36.4
80.5°	28.3	28.2	28.6	29.3	31.6	32.8	33.7	34.9	35.4	35.2	34.6
81°	26.5	26.4	26.7	27.5	29.8	31.0	31.9	32.9	33.5	33.3	32.6
81.5°	24.6	24.5	24.8	25.5	27.8	29.0	30.1	31.1	31.6	31.3	30.7
82°	22.9	22.9	23.2	23.9	26.0	27.1	28.1	29.3	29.6	29.5	28.8
82.5°	21.2	21.1	21.4	22.0	24.1	25.2	26.4	27.4	27.7	27.6	27.0
83°	19.3	19.3	19.7	20.3	22.4	23.3	24.6	25.8	25.8	25.8	25.2
83.5°	17.5	17.5	17.9	18.6	20.7	21.8	22.6	23.6	24.1	23.9	23.3
84°	15.8	15.7	16.1	16.7	19.0	20.0	21.1	22.0	22.4	22.3	21.7
84.5°	14.2	14.1	14.4	15.0	17.4	18.4	19.4	20.5	20.7	20.5	20.0
85°	12.4	12.3	12.7	13.4	15.5	16.7	17.7	18.4	18.8	18.8	18.1
85.5°	10.9	10.7	11.0	11.6	13.8	14.9	15.8	16.7	17.3	17.1	16.5
86°	9.2	9.1	9.4	10.0	12.1	13.3	14.2	15.0	15.5	15.5	14.7
86.5°	7.7	7.3	7.9	8.4	10.5	11.6	12.6	13.4	13.7	13.6	13.1
87°	6.0	6.0	6.3	7.0	8.9	10.0	11.0	11.7	12.2	11.9	11.5
87.5°	4.7	4.7	4.9	5.7	7.3	8.5	9.4	10.0	10.4	10.4	9.8
88°	3.2	3.2	3.5	4.0	5.9	7.0	7.8	8.5	8.8	9.0	8.3
88.5°	1.8	1.7	1.9	2.3	4.4	5.5	6.4	7.0	7.2	7.3	6.7



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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	2.7	2.9	2.7	2.3
90.5°	0.5	0.1	0.4	0.3	0.4	0.3	0.5	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	0.5	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	0.5	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	0.5	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: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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	0.5	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	0.9	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	0.9	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	0.6	0.5	0.7	0.6	0.7	0.7	0.6	0.6
118°	0.9	0.9	0.7	0.9	0.5	0.7	0.7	0.7	0.7	0.5	0.7
118.5°	0.9	1.0	0.7	0.9	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	0.9	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
120.5°	0.9	0.9	0.9	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	0.9	0.6	0.7	0.7	0.7	0.7	0.6	0.8
125°	1.1	1.0	0.8	0.9	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	0.9	0.6	0.8	0.7	0.7	0.9	0.8	0.7
126.5°	1.1	1.0	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.7	0.7
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	0.9	0.6	0.8	0.8	0.7	0.9	0.8	0.8
128°	1.1	1.1	0.9	0.9	0.6	0.8	0.8	0.7	0.9	0.9	0.8
128.5°	1.1	1.0	0.9	0.9	0.6	0.9	0.8	0.7	0.9	0.9	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	0.9	0.8	0.7	0.9	0.9	0.8
130°	1.1	0.9	0.9	1.0	0.7	0.9	0.8	0.7	1.1	0.9	0.8
130.5°	1.1	1.0	0.9	1.0	0.7	0.9	0.8	0.8	0.6	0.8	0.8
131°	1.1	0.9	0.9	0.8	0.7	0.9	0.9	0.8	0.7	0.8	0.8
131.5°	1.1	1.1	0.9	0.9	0.7	0.9	0.7	0.7	0.5	0.9	0.8
132°	1.1	1.1	0.9	1.0	0.7	0.9	0.9	0.7	0.6	0.9	0.8
132.5°	1.2	1.1	0.9	0.8	0.7	0.9	0.9	0.7	0.8	0.7	0.8
133°	1.2	1.2	0.9	0.9	0.7	0.9	0.9	0.7	0.8	0.7	0.8
133.5°	1.2	1.2	0.9	0.9	0.7	0.9	0.9	0.7	0.9	0.8	0.8



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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	0.9	0.9	0.7	0.9	0.9	0.8
135.5°	1.2	1.1	0.9	0.9	0.8	0.9	1.0	0.9	0.9	0.9	0.9
136°	1.2	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
136.5°	1.2	1.2	0.9	1.0	0.8	0.9	0.9	0.8	1.0	0.9	0.9
137°	1.2	1.1	0.9	1.0	0.8	0.9	1.0	0.8	0.9	0.9	0.9
137.5°	1.2	1.1	0.9	0.9	0.8	0.9	1.0	0.8	0.9	0.9	0.9
138°	1.2	1.1	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.9
138.5°	1.2	1.1	0.9	1.0	0.8	0.9	0.9	0.8	0.9	0.9	0.9
139°	1.2	1.1	1.1	1.0	0.9	0.9	0.9	0.8	0.9	0.9	0.9
139.5°	1.2	1.1	1.1	0.9	0.9	0.9	0.9	0.8	0.9	0.9	0.9
140°	1.2	1.1	1.1	1.1	0.9	0.9	1.0	0.8	0.9	0.9	0.9
140.5°	1.2	1.1	1.1	0.9	0.9	1.0	0.9	0.8	0.9	0.9	0.9
141°	1.2	1.1	1.1	1.1	0.9	1.0	1.1	0.8	0.9	0.8	1.0
141.5°	1.2	1.1	1.1	1.1	0.9	0.9	1.1	0.8	0.9	1.0	1.0
142°	1.2	1.1	1.1	1.0	0.9	0.9	1.1	0.8	0.9	0.9	1.0
142.5°	1.2	1.1	1.1	0.9	0.9	0.9	1.1	0.9	0.9	1.0	1.0
143°	1.2	1.1	1.1	1.1	0.9	0.9	1.1	0.9	0.9	0.9	1.0
143.5°	1.2	1.1	1.1	1.0	0.9	0.9	1.1	0.9	1.1	1.1	1.0
144°	1.2	1.1	1.2	1.0	0.9	0.9	1.1	0.9	1.1	1.1	1.0
144.5°	1.2	1.1	1.2	1.2	0.9	0.9	1.0	0.9	1.0	1.1	1.0
145°	1.2	1.1	1.2	1.1	0.9	0.9	1.0	0.9	1.0	1.1	1.0
145.5°	1.2	1.1	1.2	1.1	0.9	0.9	1.1	0.9	1.0	1.1	1.1
146°	1.2	1.1	1.2	1.0	0.9	0.9	1.1	0.9	1.0	1.1	1.1
146.5°	1.2	1.1	1.2	1.0	0.9	0.9	1.1	1.0	1.1	1.0	1.1
147°	1.2	1.1	1.2	1.1	0.9	0.9	1.2	1.1	1.1	1.2	1.1
147.5°	1.2	1.1	1.3	1.1	0.9	0.9	1.2	1.1	1.1	1.2	1.1
148°	1.2	1.1	1.3	1.1	0.9	0.9	1.2	1.1	1.1	1.1	1.1
148.5°	1.2	1.1	1.3	1.1	0.9	0.9	1.3	1.1	1.1	1.1	1.1
149°	1.2	1.1	1.3	1.1	0.9	0.9	1.3	1.1	1.1	1.1	1.1
149.5°	1.2	1.1	1.3	1.1	0.9	0.9	1.2	1.1	1.1	1.1	1.2
150°	1.2	1.1	1.3	1.1	0.9	0.9	1.2	1.1	1.1	1.1	1.2
150.5°	1.2	1.1	1.3	1.1	1.0	0.9	1.2	1.1	1.1	1.2	1.2
151°	1.2	1.1	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.2	1.2
151.5°	1.2	1.1	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.3	1.2
152°	1.2	1.1	1.3	1.1	1.0	0.9	1.2	1.1	1.1	1.3	1.2
152.5°	1.2	1.1	1.3	1.1	1.1	0.8	1.3	1.1	1.1	1.3	1.2
153°	1.2	1.1	1.3	1.1	1.0	0.9	1.2	1.1	1.1	1.3	1.2
153.5°	1.2	1.1	1.3	1.1	1.1	0.9	1.2	1.1	1.2	1.3	1.3
154°	1.2	1.1	1.3	1.1	1.1	1.7	1.3	1.1	1.2	1.3	1.3
154.5°	1.2	1.1	1.3	1.1	1.1	1.1	1.3	1.1	1.2	1.4	1.3
155°	1.2	1.1	1.3	1.1	1.1	1.1	1.3	1.1	1.3	1.4	1.3
155.5°	1.2	1.1	1.3	1.1	1.1	1.1	1.3	1.1	1.3	1.5	1.4
156°	1.2	1.1	1.3	1.1	1.1	1.1	1.3	1.1	1.3	1.5	1.4



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	266.0	266.0	266.0	266.0	266.0	266.0
0.5°	264.5	266.0	264.4	264.3	265.4	265.6
1°	264.7	265.1	264.6	264.0	265.1	265.8
1.5°	264.8	266.2	263.6	264.9	264.8	265.6
2°	264.5	265.7	264.2	264.4	264.3	265.6
2.5°	264.5	264.8	264.2	264.4	264.2	265.6
3°	264.4	265.2	264.0	264.3	264.5	265.6
3.5°	264.3	263.7	263.2	264.6	264.0	265.0
4°	263.9	263.8	263.8	263.8	263.5	264.8
4.5°	264.0	264.0	262.7	262.8	263.6	264.5
5°	263.6	263.9	263.1	262.6	263.6	264.5
5.5°	263.4	262.0	262.9	262.9	263.0	263.8
6°	263.3	261.9	263.0	262.5	263.1	263.4
6.5°	262.9	263.0	262.7	262.7	262.6	263.5
7°	262.5	262.8	262.1	261.7	262.0	262.8
7.5°	262.2	262.2	261.9	261.5	261.7	262.3
8°	261.7	261.9	261.9	261.1	261.7	261.4
8.5°	261.6	261.1	261.2	261.0	261.2	261.3
9°	261.0	260.4	259.8	260.4	260.8	261.3
9.5°	260.7	260.3	258.3	260.4	259.9	260.9
10°	260.4	259.9	258.7	259.2	259.2	260.2
10.5°	259.8	258.7	258.8	259.7	258.7	259.8
11°	259.3	258.9	257.8	259.1	258.5	259.2
11.5°	258.7	258.0	258.4	258.6	257.7	258.5
12°	258.1	257.5	256.5	257.4	257.8	257.7
12.5°	257.7	257.7	255.3	257.4	257.2	257.0
13°	257.1	256.8	255.2	255.9	256.0	256.1
13.5°	256.3	256.0	255.8	255.2	255.1	255.9
14°	255.6	254.9	254.2	254.3	254.7	255.6
14.5°	254.9	253.7	254.0	254.3	254.0	254.5
15°	254.2	253.6	252.8	252.9	253.1	253.4
15.5°	253.7	252.7	252.3	251.9	251.9	253.2
16°	252.9	252.1	251.1	250.8	251.3	252.6
16.5°	252.1	250.8	250.6	250.7	250.8	251.9
17°	251.4	250.2	249.6	249.6	250.4	251.0
17.5°	250.4	249.9	248.4	249.1	249.7	250.3
18°	249.7	249.9	248.1	248.4	248.8	249.4
18.5°	248.7	248.5	246.7	248.0	247.8	248.3
19°	248.1	246.8	245.9	246.9	246.6	247.3
19.5°	247.3	246.5	244.8	246.1	245.5	246.6
20°	246.2	245.8	245.0	244.7	244.4	245.5
20.5°	245.2	244.4	242.6	244.0	243.3	244.8
21°	244.4	243.5	242.8	242.2	242.5	243.5



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	241.3	241.2	238.9	239.8	239.5	240.1
23°	240.3	240.1	238.3	239.0	238.6	238.9
23.5°	239.5	238.1	237.2	237.8	237.6	237.8
24°	238.3	237.0	236.8	236.5	236.3	236.7
24.5°	237.1	235.5	234.9	235.7	235.3	236.0
25°	236.0	235.9	234.4	234.5	234.0	234.8
25.5°	235.1	234.7	233.6	232.9	232.5	233.6
26°	233.9	233.2	232.0	231.6	231.3	232.4
26.5°	232.8	232.2	231.2	230.4	230.2	230.9
27°	231.7	231.1	230.3	229.1	228.9	229.6
27.5°	230.5	229.5	229.1	228.2	227.9	228.2
28°	229.2	228.3	227.8	227.0	226.5	227.2
28.5°	228.1	226.8	226.5	225.7	225.1	226.0
29°	226.8	225.6	225.4	224.7	223.5	224.5
29.5°	225.3	224.4	224.1	223.5	222.7	223.2
30°	224.3	223.9	222.7	222.2	221.3	221.9
30.5°	223.2	222.3	221.3	220.6	220.0	220.8
31°	221.9	220.6	219.7	219.2	218.8	219.3
31.5°	220.2	219.3	218.3	218.0	217.3	217.9
32°	219.1	217.6	215.4	216.4	216.0	216.6
32.5°	217.6	216.5	214.5	214.6	214.6	215.3
33°	216.1	215.3	214.0	213.3	213.0	213.7
33.5°	214.8	214.3	211.9	211.8	211.4	212.1
34°	213.5	212.5	210.2	210.5	209.8	210.7
34.5°	211.9	210.9	209.6	208.9	208.8	209.2
35°	210.5	209.8	208.2	207.6	207.5	207.7
35.5°	209.1	208.0	206.7	206.1	205.9	206.4
36°	207.6	206.9	204.8	204.7	204.2	204.9
36.5°	206.0	205.3	202.5	203.1	202.7	203.2
37°	204.4	203.8	201.2	201.8	201.0	201.7
37.5°	202.9	202.4	200.5	200.5	199.3	199.9
38°	201.4	200.7	198.7	198.9	198.0	198.1
38.5°	200.1	199.1	197.6	196.8	196.5	196.4
39°	198.5	197.1	195.7	195.4	194.9	194.8
39.5°	196.8	195.1	193.8	193.9	193.4	193.3
40°	195.2	193.5	192.1	192.1	191.9	191.7
40.5°	193.6	192.0	190.1	190.4	190.3	190.2
41°	192.0	190.8	188.7	188.6	188.8	188.3
41.5°	190.2	189.1	187.3	186.8	186.8	186.6
42°	188.5	187.3	185.4	185.0	184.8	185.2
42.5°	186.8	185.7	183.4	183.3	182.9	183.8
43°	185.2	183.6	182.2	181.8	181.2	181.9
43.5°	183.4	182.0	180.7	180.1	179.7	180.0



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	178.2	176.1	175.5	174.3	174.2	174.4
45.5°	176.4	174.2	173.7	172.8	172.4	172.8
46°	174.6	172.9	172.0	171.0	170.7	170.9
46.5°	172.8	171.4	170.0	168.8	168.9	169.0
47°	170.8	169.5	168.1	166.9	167.0	167.2
47.5°	169.0	168.2	166.3	165.3	165.2	165.4
48°	167.2	166.1	164.1	163.4	163.1	163.6
48.5°	165.5	164.2	161.8	161.5	161.2	161.8
49°	163.7	162.4	160.1	159.7	159.3	159.9
49.5°	161.9	160.4	158.6	157.8	157.6	157.8
50°	160.0	158.3	157.0	156.1	155.5	156.0
50.5°	158.0	156.3	155.2	154.2	153.8	153.9
51°	156.1	154.4	153.3	152.3	151.8	151.9
51.5°	154.3	152.2	151.3	150.5	149.7	149.8
52°	152.3	150.1	149.2	148.6	147.6	147.9
52.5°	150.2	148.0	147.5	146.5	145.8	145.6
53°	148.1	146.5	145.2	144.4	143.9	143.7
53.5°	146.3	144.5	143.0	142.7	141.6	141.9
54°	144.3	142.6	140.8	140.4	139.8	139.6
54.5°	142.3	140.1	138.8	138.2	138.1	137.5
55°	140.5	138.3	136.7	136.1	135.9	135.5
55.5°	138.4	136.4	135.0	134.0	133.7	133.7
56°	136.2	134.4	132.6	132.0	131.5	131.6
56.5°	134.2	132.6	130.3	130.0	129.4	129.3
57°	132.1	130.3	128.7	127.8	127.4	127.2
57.5°	129.9	127.9	126.2	125.7	125.2	125.0
58°	127.9	125.9	124.4	123.6	123.1	123.0
58.5°	125.8	123.8	122.4	121.7	120.9	120.9
59°	123.9	121.6	120.4	119.9	118.8	119.0
59.5°	121.8	119.5	118.7	117.7	116.9	116.7
60°	119.7	117.4	116.5	115.4	114.5	114.7
60.5°	117.5	115.6	113.8	113.1	112.3	112.7
61°	115.4	113.7	111.5	110.9	110.2	110.3
61.5°	113.2	111.3	109.7	108.8	108.1	108.4
62°	111.1	109.5	107.4	106.6	105.9	106.1
62.5°	109.1	107.2	105.4	104.5	103.5	104.0
63°	107.0	104.9	103.4	102.2	101.5	101.7
63.5°	104.8	102.6	101.1	100.0	99.3	99.8
64°	102.8	100.5	99.1	97.8	97.3	97.6
64.5°	100.7	98.4	96.9	95.7	95.3	95.4
65°	98.6	96.2	94.6	93.7	93.0	93.2
65.5°	96.3	94.2	92.5	91.6	91.0	91.4
66°	94.2	91.9	90.1	89.7	88.9	89.2



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	88.1	85.2	84.4	83.1	82.3	82.4
68°	85.9	83.3	82.0	80.8	80.6	80.3
68.5°	83.6	81.2	79.9	78.8	78.3	78.1
69°	81.5	79.0	77.8	76.8	76.2	75.9
69.5°	79.4	76.8	75.5	74.4	73.7	73.7
70°	77.2	74.6	73.2	72.2	71.6	71.7
70.5°	74.9	72.6	71.3	70.1	69.5	69.3
71°	72.7	70.7	69.1	68.0	67.4	67.0
71.5°	70.5	68.5	66.8	65.9	65.2	64.8
72°	68.4	66.2	64.5	63.8	63.0	62.9
72.5°	66.2	64.1	62.3	61.7	61.0	60.7
73°	64.1	61.8	60.4	59.4	58.7	58.5
73.5°	61.8	59.5	58.4	57.4	56.6	56.5
74°	59.8	57.5	56.1	55.3	54.6	54.4
74.5°	57.5	55.4	54.1	53.3	52.6	52.5
75°	55.6	53.4	52.1	51.1	50.6	50.3
75.5°	53.4	51.3	50.0	48.9	48.4	48.0
76°	51.5	49.3	48.1	46.8	46.2	46.0
76.5°	49.3	47.1	45.9	44.9	44.0	44.2
77°	47.3	45.0	43.9	42.9	42.1	42.0
77.5°	45.2	43.0	41.8	40.7	40.2	40.1
78°	43.2	40.8	39.9	38.9	38.1	37.8
78.5°	41.1	39.0	37.8	36.8	36.2	36.0
79°	39.1	37.0	35.9	34.9	34.4	34.1
79.5°	37.1	35.2	33.8	33.0	32.6	32.2
80°	35.3	33.2	32.0	31.1	30.4	30.2
80.5°	33.4	31.3	30.1	29.1	28.5	28.3
81°	31.5	29.4	28.3	27.2	26.7	26.5
81.5°	29.6	27.6	26.5	25.5	24.9	24.6
82°	27.7	25.7	24.5	23.6	23.1	22.9
82.5°	25.9	23.9	22.8	22.2	21.3	21.2
83°	24.1	22.2	21.2	20.3	19.9	19.3
83.5°	22.4	20.5	19.5	18.7	17.8	17.5
84°	20.6	18.8	17.7	16.8	16.2	15.8
84.5°	19.0	17.1	16.0	15.2	14.6	14.2
85°	17.3	15.3	14.3	13.5	12.8	12.4
85.5°	15.6	13.7	12.6	11.7	11.1	10.9
86°	13.9	12.0	11.1	10.2	9.6	9.2
86.5°	12.3	10.5	9.6	8.7	8.0	7.7
87°	10.6	8.9	7.9	7.2	6.6	6.0
87.5°	9.1	7.4	6.6	5.7	5.0	4.7
88°	7.4	5.9	5.2	4.2	3.6	3.2
88.5°	6.0	4.6	3.7	2.8	2.2	1.8



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.8	0.9	0.6	0.5	0.5	0.5
90.5°	0.7	0.6	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: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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	0.5	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	1.1	1.1	0.7	0.7	1.0
124°	0.7	1.1	1.0	0.7	0.8	1.1
124.5°	0.7	1.1	1.1	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	1.1	1.0	0.7	0.7	1.1
126.5°	0.7	1.1	1.1	0.7	0.8	1.1
127°	0.7	1.1	1.1	0.7	0.9	1.1
127.5°	0.7	1.1	1.2	0.7	0.9	1.1
128°	0.7	1.1	1.2	0.7	0.9	1.1
128.5°	0.8	1.1	1.2	0.7	0.9	1.1
129°	0.9	1.1	1.1	0.7	0.9	1.1
129.5°	0.9	1.1	1.1	0.7	0.9	1.1
130°	0.9	1.1	1.1	0.9	0.9	1.1
130.5°	0.8	1.2	1.2	0.9	0.9	1.1
131°	0.8	1.1	1.1	1.0	0.9	1.1
131.5°	0.9	1.1	1.1	1.1	0.9	1.1
132°	0.8	1.1	1.1	1.0	0.9	1.1
132.5°	0.8	1.1	1.2	1.1	0.9	1.2
133°	0.8	1.1	1.2	1.1	0.9	1.2
133.5°	0.8	1.1	1.1	1.1	0.9	1.2



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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°	0.9	1.2	1.1	1.1	1.0	1.2
139°	0.9	1.2	1.1	1.1	1.0	1.2
139.5°	0.9	1.2	1.1	1.1	1.0	1.2
140°	0.9	1.2	1.1	1.1	1.0	1.2
140.5°	0.9	1.2	1.1	1.1	1.0	1.2
141°	0.9	1.2	1.1	1.1	1.0	1.2
141.5°	0.9	1.2	1.1	1.1	1.0	1.2
142°	0.9	1.2	1.1	1.1	1.1	1.2
142.5°	1.1	1.2	1.1	1.1	1.1	1.2
143°	1.0	1.2	1.1	1.1	1.1	1.2
143.5°	1.1	1.2	1.1	1.1	1.1	1.2
144°	1.1	1.2	1.1	1.1	1.1	1.2
144.5°	1.1	1.2	1.1	1.1	1.1	1.2
145°	1.1	1.2	1.1	1.1	1.1	1.2
145.5°	1.1	1.2	1.1	1.1	1.1	1.2
146°	1.2	1.2	1.1	1.1	1.1	1.2
146.5°	1.2	1.2	1.1	1.1	1.1	1.2
147°	1.1	1.2	1.1	1.1	1.1	1.2
147.5°	1.1	1.2	1.1	1.1	1.1	1.2
148°	1.2	1.2	1.1	1.1	1.1	1.2
148.5°	1.2	1.2	1.1	1.1	1.1	1.2
149°	1.2	1.2	1.1	1.1	1.1	1.2
149.5°	1.3	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°	1.3	1.2	1.1	1.3	1.1	1.2
152°	1.3	1.2	1.1	1.3	1.1	1.2
152.5°	1.3	1.2	1.1	1.3	1.1	1.2
153°	1.3	1.2	1.1	1.3	1.1	1.2
153.5°	1.3	1.2	1.1	1.3	1.1	1.2
154°	1.3	1.2	1.1	1.3	1.3	1.2
154.5°	1.3	1.2	1.1	1.3	1.2	1.2
155°	1.3	1.2	1.1	1.3	1.2	1.2
155.5°	1.3	1.2	1.1	1.3	1.2	1.2
156°	1.3	1.2	1.1	1.3	1.2	1.2



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417434

CATALOG NUMBER: SMD6R69SWH - 3500K

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°	242.2	241.4	243.0	242.2	243.7	243.4	243.9	244.8	245.7	245.0	245.1
22°	241.1	240.5	242.1	241.2	242.9	242.1	243.4	243.7	244.7	243.9	244.3



44°	178.1	177.8	179.0	179.3	180.9	182.0	183.3	183.4	184.7	183.8	183.6
44.5°	176.5	176.1	177.2	177.4	179.1	180.1	181.4	181.4	182.8	182.0	181.8



66.5°	86.8	87.0	87.6	88.3	90.9	91.9	93.0	93.8	94.7	94.3	93.5
67°	84.5	84.7	85.4	86.1	88.7	90.2	90.8	91.6	92.4	92.1	91.5



89°	0.9	0.8	0.8	1.1	2.9	4.0	5.0	5.5	5.7	5.6	5.1
89.5°	0.5	0.5	0.5	0.5	1.2	2.5	3.5	4.1	4.3	4.1	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	0.9	0.9	0.8	0.9	0.8	0.8
134.5°	1.2	1.2	0.9	1.1	0.8	0.9	0.9	0.7	0.9	0.9	0.8



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



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





21.5°	243.7	243.3	241.8	241.3	241.4	242.2
22°	242.6	242.3	241.2	240.7	240.5	241.1



44°	181.6	180.2	178.8	178.1	177.9	178.1
44.5°	180.0	178.1	177.2	176.1	176.1	176.5



66.5°	92.1	89.9	88.1	87.4	86.8	86.8
67°	90.3	87.7	86.2	85.2	84.6	84.5



89°	4.6	3.1	2.3	1.6	1.0	0.9
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	1.3	1.3	1.2
157°	1.3	1.2	1.1	1.3	1.3	1.2



179°	1.3	2.1	2.0	1.7	1.6	1.4
179.5°	1.3	2.1	2.0	1.7	1.6	1.4



(END OF REPORT)