

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: P417447

Luminaire Tested: **SMD6S69SWH - 2700K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2007930D001)
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S69SWH - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 735.1 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

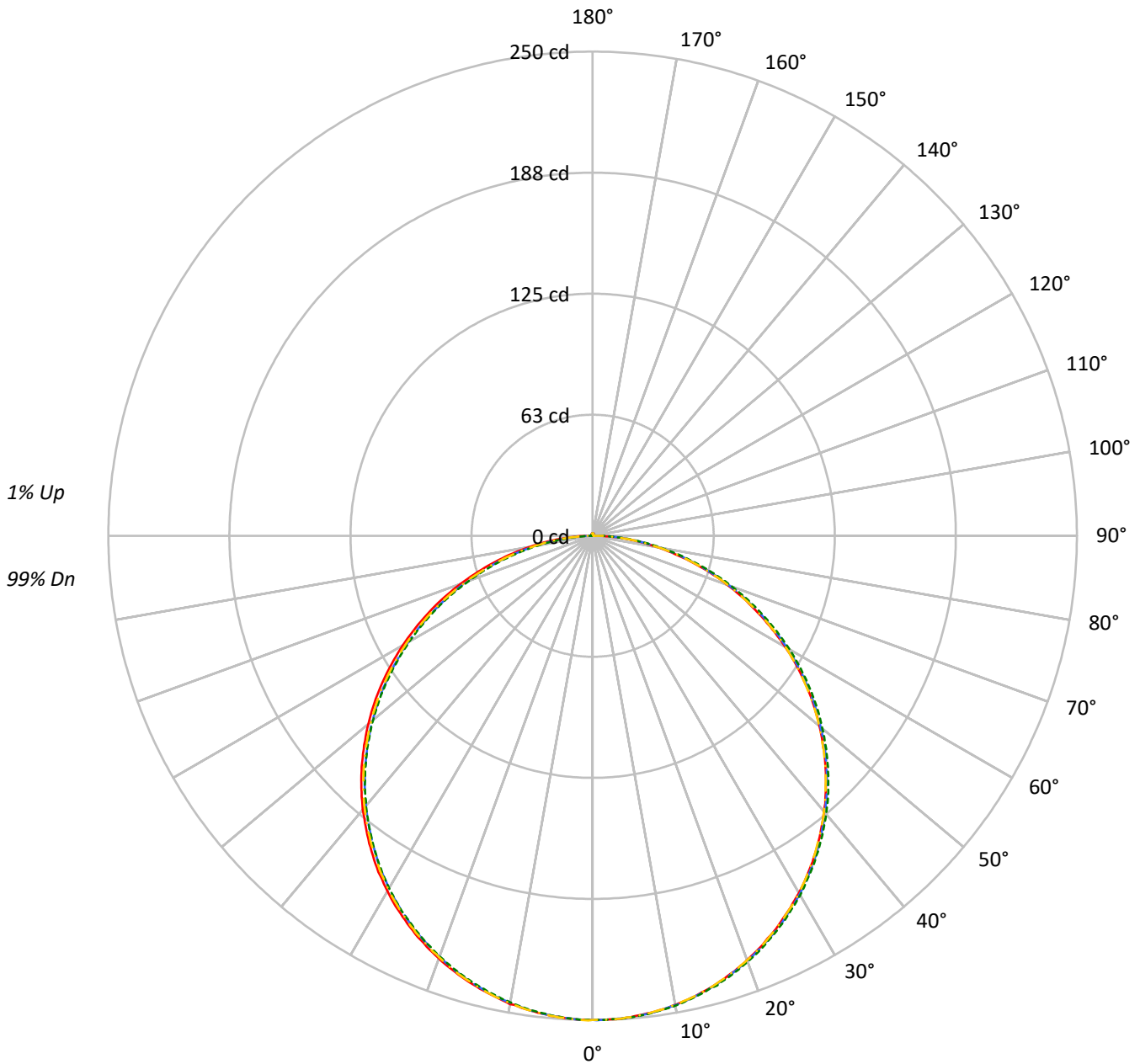
Input Watts (W): 9.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	99																			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10764	10764	10764	10764
5°	10762	10770	10753	10740
10°	10751	10768	10738	10698
15°	10725	10751	10685	10649
20°	10685	10722	10639	10589
25°	10637	10689	10594	10518
30°	10590	10654	10535	10445
35°	10528	10591	10460	10344
40°	10449	10538	10375	10229
45°	10357	10467	10266	10083
50°	10235	10376	10128	9907
55°	10104	10261	9954	9683
60°	9886	10101	9739	9403
65°	9617	9882	9465	9026
70°	9316	9630	9114	8548
75°	8917	9299	8684	7918
80°	8455	8951	8133	6943
85°	8201	8991	7756	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	3.2
10°-20°	67.7	9.2
20°-30°	102.9	14.0
30°-40°	124.5	16.9
40°-50°	130.0	17.7
50°-60°	118.6	16.1
60°-70°	91.9	12.5
70°-80°	55.0	7.5
80°-90°	17.1	2.3
90°-100°	0.5	0.1
100°-110°	0.5	0.1
110°-120°	0.5	0.1
120°-130°	0.5	0.1
130°-140°	0.5	0.1
140°-150°	0.5	0.1
150°-160°	0.4	0.1
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	194.2	26.4
0°-40°	318.8	43.4
0°-60°	567.4	77.2
0°-90°	731.4	99.5
90°-120°	1.4	0.2
90°-150°	2.9	0.4
90°-180°	4.0	0.5
0°-180°	735.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	250	250	250	250	250	
5°	249	249	249	248	249	24
15°	241	241	240	239	241	68
25°	224	225	223	221	224	103
35°	200	202	199	197	200	125
45°	170	172	169	166	170	131
55°	135	137	133	129	135	120
65°	94	97	93	89	94	93
75°	54	56	52	48	54	57
85°	17	18	16	11	17	17
90°	1	3	0	1	1	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	1
115°	0	0	0	0	0	0
125°	0	0	1	0	0	1
135°	1	0	1	0	1	1
145°	1	0	1	1	1	1
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
0.5°	250.0	250.0	250.2	250.1	250.0	250.1	250.0	250.1	250.0	249.9	250.2
1°	250.0	250.0	250.0	250.1	250.0	250.1	250.2	249.9	249.9	249.9	250.0
1.5°	250.0	249.9	250.0	250.0	250.0	250.0	250.1	250.0	250.0	249.8	249.9
2°	249.9	250.0	250.0	250.0	249.9	250.0	250.0	249.9	249.8	249.8	249.8
2.5°	249.9	249.9	249.9	250.0	249.8	249.9	250.0	249.8	249.7	249.5	249.6
3°	249.9	249.7	249.6	249.8	250.1	250.0	249.7	249.6	249.5	249.5	249.4
3.5°	249.7	249.5	249.8	249.7	249.8	249.8	249.7	249.4	249.3	249.3	249.3
4°	249.5	249.4	249.5	249.5	249.7	249.5	249.4	249.3	249.0	249.1	249.0
4.5°	249.3	249.2	249.3	249.4	249.5	249.4	249.3	249.2	249.0	248.8	249.0
5°	249.0	249.0	249.1	249.2	249.2	249.1	249.1	249.0	248.8	248.7	248.6
5.5°	248.8	248.7	249.0	249.1	249.1	249.0	248.9	248.8	248.4	248.3	248.3
6°	248.6	248.6	248.7	248.8	248.8	248.9	248.6	248.5	248.2	248.1	248.1
6.5°	248.3	248.3	248.5	248.6	248.6	248.5	248.4	248.2	247.9	247.7	247.9
7°	248.1	248.0	248.2	248.3	248.3	248.2	248.1	247.9	247.5	247.5	247.4
7.5°	247.8	247.6	248.0	248.0	247.9	248.0	247.7	247.7	247.2	247.3	247.2
8°	247.4	247.4	247.6	247.7	247.7	247.6	247.4	247.2	246.8	246.8	246.7
8.5°	247.1	247.1	247.3	247.3	247.4	247.1	247.1	247.0	246.6	246.3	246.3
9°	246.9	246.7	246.8	246.9	247.1	247.0	246.7	246.5	246.0	246.0	245.8
9.5°	246.2	246.2	246.4	246.5	246.8	246.9	246.3	246.2	245.6	245.5	245.4
10°	245.9	245.8	246.0	246.1	246.3	246.2	245.8	245.7	245.6	245.0	245.0
10.5°	245.5	245.5	245.7	245.8	245.9	245.8	245.4	245.3	244.9	244.6	244.4
11°	245.0	245.0	245.1	245.2	245.5	245.3	244.9	244.8	244.3	244.0	244.0
11.5°	244.6	244.5	244.8	244.7	244.9	244.8	244.5	244.2	243.8	243.5	243.4
12°	244.0	243.9	244.1	244.3	244.5	244.3	244.0	243.7	243.2	243.1	243.0
12.5°	243.6	243.5	243.7	243.7	243.9	243.9	243.5	243.1	242.7	242.3	242.2
13°	243.0	242.9	243.1	243.1	243.4	243.4	242.9	242.5	242.2	241.8	241.7
13.5°	242.4	242.3	242.5	242.7	242.9	242.8	242.4	242.0	241.5	241.2	241.1
14°	241.8	241.9	242.0	242.1	242.3	242.2	241.8	241.4	241.0	240.6	240.4
14.5°	241.2	241.3	241.5	241.5	241.6	241.6	241.2	240.9	240.3	239.9	239.7
15°	240.6	240.7	240.8	240.8	241.2	240.9	240.6	240.0	239.7	239.2	239.2
15.5°	240.0	240.0	240.3	240.2	240.9	240.4	239.9	239.5	239.0	238.6	238.5
16°	239.2	239.4	239.4	239.6	239.8	239.7	239.2	238.7	238.3	237.9	237.7
16.5°	238.6	238.6	238.8	238.9	239.3	239.0	238.5	238.0	237.6	237.2	237.0
17°	237.8	238.0	238.1	238.3	238.7	238.4	237.8	237.5	236.9	236.5	236.2
17.5°	237.1	237.2	237.5	237.5	237.9	237.6	237.0	236.7	236.1	235.8	235.5
18°	236.5	236.5	236.7	236.9	237.1	236.9	236.3	235.9	235.4	235.0	234.6
18.5°	235.6	235.7	236.0	236.2	236.4	236.2	235.7	235.2	234.7	234.2	233.9
19°	234.8	235.0	235.1	235.3	235.6	235.3	234.6	234.4	233.9	233.5	233.0
19.5°	234.1	234.3	234.5	234.5	234.8	234.5	234.1	233.6	233.2	232.6	232.1
20°	233.2	233.5	233.6	233.7	234.0	233.7	233.1	232.6	232.2	231.7	231.3
20.5°	232.3	232.5	232.8	232.9	233.2	233.0	232.5	232.0	231.4	230.8	230.5
21°	231.4	231.7	231.9	232.1	232.5	232.1	231.5	231.0	230.5	229.9	229.5



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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°	228.8	229.1	229.2	229.4	229.8	229.5	228.8	228.3	227.7	227.1	226.7
23°	227.8	228.2	228.2	228.5	228.9	228.6	227.9	227.2	226.9	226.1	225.7
23.5°	226.7	227.2	227.5	227.6	227.8	227.6	227.0	226.4	226.0	225.0	224.8
24°	225.9	226.2	226.4	226.6	226.9	226.7	225.9	225.3	225.0	224.1	223.8
24.5°	224.9	225.2	225.5	225.7	225.9	225.7	224.9	224.4	223.9	223.0	222.7
25°	223.9	224.1	224.5	224.6	225.0	224.7	223.8	223.7	223.0	222.0	221.6
25.5°	222.8	223.1	223.5	223.6	223.9	223.7	222.9	222.3	222.0	220.9	220.5
26°	221.8	222.3	222.5	222.6	223.0	222.6	221.9	221.4	220.8	219.9	219.3
26.5°	220.6	221.1	221.4	221.6	222.0	221.6	220.9	220.3	219.8	218.8	218.4
27°	219.6	220.0	220.3	220.5	220.9	220.4	219.7	219.1	218.7	217.8	217.3
27.5°	218.5	218.9	219.3	219.5	219.7	219.4	218.7	218.2	217.7	216.7	216.1
28°	217.5	218.0	218.1	218.4	218.6	218.4	217.6	217.0	216.6	215.5	214.9
28.5°	216.3	216.9	217.2	217.4	217.7	217.4	216.5	216.0	215.4	214.3	213.8
29°	215.2	215.7	216.0	216.2	216.5	216.2	215.3	214.8	214.3	213.2	212.7
29.5°	214.1	214.7	214.8	215.1	215.3	215.1	214.2	213.7	213.1	212.0	211.3
30°	213.0	213.4	213.7	213.8	214.3	213.9	213.0	212.4	211.9	210.7	210.0
30.5°	211.8	212.2	212.5	212.6	213.0	212.6	211.8	211.2	210.7	209.5	208.8
31°	210.6	211.0	211.3	211.3	211.8	211.4	210.5	209.9	209.5	208.3	207.6
31.5°	209.3	210.0	210.1	210.1	210.5	210.2	209.3	208.7	208.1	207.0	206.4
32°	208.0	208.7	208.8	208.9	209.2	209.0	208.0	207.5	206.9	205.7	205.0
32.5°	206.8	207.2	207.5	207.7	208.0	207.7	206.7	206.2	205.8	204.4	203.7
33°	205.6	206.1	206.2	206.4	206.8	206.4	205.4	204.7	204.4	203.1	202.3
33.5°	204.2	204.7	205.0	205.2	205.5	205.1	204.1	203.5	203.1	201.9	201.1
34°	203.0	203.5	203.6	203.9	204.3	203.8	202.8	202.1	201.7	200.4	199.5
34.5°	201.6	202.1	202.4	202.5	202.9	202.4	201.5	201.0	200.3	199.0	198.3
35°	200.3	200.8	200.9	201.2	201.5	201.0	200.2	199.5	199.0	197.7	196.8
35.5°	198.9	199.6	199.6	199.8	200.3	199.6	198.8	198.2	197.5	196.3	195.5
36°	197.5	198.1	198.2	198.5	198.9	198.3	197.3	196.7	196.3	194.8	194.0
36.5°	196.0	196.5	196.9	197.1	197.5	196.9	195.9	195.3	194.7	193.4	192.6
37°	194.7	195.0	195.4	195.7	196.2	195.5	194.5	193.9	193.3	192.0	191.0
37.5°	193.2	193.6	194.1	194.2	194.8	194.0	193.1	192.4	191.9	190.5	189.6
38°	191.8	192.3	192.5	192.8	193.4	192.7	191.7	190.9	190.4	189.0	188.1
38.5°	190.3	190.8	191.1	191.4	191.9	191.1	190.2	189.4	188.9	187.5	186.6
39°	188.9	189.4	189.6	189.9	190.5	189.7	188.8	188.0	187.4	186.0	185.1
39.5°	187.3	188.1	188.1	188.4	189.1	188.2	187.3	186.5	186.0	184.7	183.7
40°	185.9	186.4	186.6	186.9	187.5	186.7	185.8	185.1	184.6	183.0	182.0
40.5°	184.4	185.0	185.2	185.5	186.0	185.2	184.4	183.5	183.0	181.5	180.5
41°	183.0	183.5	183.6	183.9	184.6	183.8	182.8	181.9	181.4	179.9	178.9
41.5°	181.3	181.9	182.2	182.4	183.1	182.1	181.2	180.4	179.9	178.4	177.5
42°	179.8	180.5	180.5	180.9	181.5	180.7	179.6	178.8	178.2	176.7	175.7
42.5°	178.2	178.7	178.9	179.2	180.0	179.0	178.0	177.2	176.7	175.2	174.2
43°	176.6	177.1	177.3	177.6	178.4	177.4	176.4	175.5	175.1	173.5	172.5
43.5°	175.0	175.5	175.7	176.0	176.7	175.7	174.9	174.1	173.5	171.8	170.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	170.1	170.7	170.9	171.1	171.9	170.9	169.9	169.0	168.6	167.0	165.7
45.5°	168.4	169.1	169.2	169.5	170.3	169.2	168.4	167.4	166.8	165.2	164.1
46°	166.7	167.2	167.6	167.8	168.6	167.5	166.5	165.7	165.1	163.4	162.3
46.5°	165.0	165.6	165.9	166.1	167.0	165.8	164.9	164.1	163.5	161.8	160.6
47°	163.4	163.9	164.2	164.3	165.2	164.1	163.2	162.3	161.6	160.0	158.9
47.5°	161.5	162.2	162.5	162.7	163.6	162.5	161.4	160.5	160.0	158.3	157.2
48°	159.8	160.7	160.7	161.0	161.8	160.7	159.6	158.8	158.1	156.6	155.3
48.5°	158.1	158.7	159.0	159.2	160.1	159.0	158.0	157.1	156.4	154.7	153.6
49°	156.4	157.0	157.3	157.3	158.5	157.2	156.2	155.4	154.7	153.1	152.0
49.5°	154.7	155.1	155.5	155.6	156.6	155.5	154.4	153.6	153.0	151.4	150.2
50°	152.8	153.3	153.6	153.8	154.9	153.7	152.7	152.0	151.2	149.5	148.3
50.5°	151.1	151.7	152.0	152.2	153.2	152.1	151.0	150.2	149.4	147.7	146.5
51°	149.3	149.9	150.2	150.4	151.4	150.2	149.1	148.4	147.6	145.9	144.7
51.5°	147.5	148.1	148.5	148.7	149.7	148.4	147.4	146.6	145.8	144.1	142.8
52°	145.7	146.3	146.6	146.7	147.9	146.6	145.5	144.8	143.9	142.3	141.0
52.5°	143.8	144.5	144.7	145.0	146.1	144.7	143.7	142.9	142.1	140.4	139.1
53°	142.0	142.6	142.9	143.1	144.1	142.9	141.9	141.1	140.2	138.6	137.3
53.5°	140.2	141.2	141.0	141.3	142.4	141.1	140.0	139.2	138.3	136.8	135.3
54°	138.3	138.9	139.1	139.4	140.4	139.2	138.0	137.3	136.4	134.8	133.4
54.5°	136.5	137.0	137.2	137.5	138.6	137.3	136.3	135.4	134.5	132.9	131.5
55°	134.6	135.1	135.4	135.6	136.7	135.4	134.3	133.5	132.6	130.9	129.7
55.5°	132.5	133.1	133.5	133.8	134.8	133.5	132.5	131.6	130.7	129.0	127.6
56°	130.7	131.2	131.6	131.8	132.9	131.7	130.5	129.7	128.7	127.0	125.7
56.5°	128.7	129.2	129.7	129.9	131.0	129.7	128.5	127.8	126.8	125.1	123.8
57°	126.8	127.4	127.7	127.9	129.0	127.7	126.7	125.9	124.7	123.1	121.8
57.5°	124.7	125.4	125.7	126.0	127.2	125.8	124.6	123.9	122.9	121.2	119.8
58°	122.9	123.4	123.8	124.1	125.2	124.0	122.9	122.0	120.9	119.2	117.9
58.5°	120.8	121.4	121.9	122.1	123.3	121.9	120.9	120.0	119.0	117.3	115.8
59°	119.0	119.6	119.9	120.1	121.3	120.0	118.9	118.1	117.1	115.4	113.9
59.5°	116.8	117.6	118.0	118.2	119.4	118.1	116.9	116.1	115.1	113.4	111.9
60°	114.8	115.7	116.0	116.2	117.3	116.1	115.0	114.1	113.1	111.4	109.9
60.5°	112.8	113.6	113.9	114.3	115.4	114.1	113.1	112.1	111.1	109.3	107.9
61°	110.8	111.7	111.9	112.2	113.3	112.1	111.1	110.0	109.1	107.3	105.9
61.5°	108.7	109.7	109.9	110.2	111.3	110.1	109.0	108.0	107.1	105.4	103.8
62°	106.7	107.7	108.0	108.1	109.3	108.1	107.1	106.0	105.0	103.2	101.8
62.5°	104.6	105.6	106.0	106.1	107.3	106.0	105.0	103.9	103.1	101.2	99.7
63°	102.6	103.6	103.9	104.1	105.2	104.0	103.0	101.8	101.0	99.2	97.7
63.5°	100.4	101.5	101.9	102.1	103.2	102.0	100.9	99.6	99.1	97.1	95.6
64°	98.5	99.5	99.8	99.9	101.1	99.9	98.9	97.6	96.9	95.2	93.6
64.5°	96.4	97.4	97.8	98.0	99.2	97.8	96.9	95.7	94.9	93.1	91.5
65°	94.4	95.3	95.8	95.9	97.0	95.9	94.8	93.7	92.9	91.0	89.5
65.5°	92.3	93.2	93.8	93.8	95.0	93.8	92.7	91.5	90.8	89.0	87.5
66°	90.2	91.1	91.6	91.6	92.9	91.7	90.7	89.5	88.8	87.0	85.5



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	84.2	85.0	85.5	85.7	86.9	85.6	84.6	83.6	82.8	81.0	79.3
68°	82.2	83.1	83.4	83.6	84.9	83.6	82.6	81.6	80.6	78.9	77.3
68.5°	80.1	81.0	81.4	81.6	82.8	81.6	80.5	79.6	78.6	76.8	75.3
69°	78.1	78.9	79.3	79.5	80.7	79.4	78.5	77.6	76.6	74.7	73.2
69.5°	76.0	76.8	77.2	77.5	78.6	77.3	76.4	75.5	74.5	72.7	71.3
70°	74.0	74.9	75.2	75.4	76.5	75.2	74.4	73.5	72.4	70.6	69.0
70.5°	71.9	72.7	73.0	73.3	74.5	73.2	72.2	71.6	70.4	68.7	67.1
71°	69.9	70.8	71.0	71.3	72.4	71.2	70.3	69.6	68.3	66.5	64.9
71.5°	67.8	68.6	68.9	69.3	70.4	69.0	68.2	67.4	66.3	64.5	62.9
72°	65.8	66.6	66.9	67.1	68.1	67.1	66.2	65.4	64.3	62.4	60.9
72.5°	63.7	64.6	64.8	65.1	66.4	64.9	64.1	63.3	62.2	60.5	58.9
73°	61.7	62.5	62.8	63.0	64.2	62.9	62.0	61.3	60.0	58.3	56.8
73.5°	59.6	60.5	60.8	61.0	62.0	60.9	60.0	59.2	58.1	56.2	54.7
74°	57.6	58.5	58.8	58.9	59.9	58.9	58.0	57.2	56.2	54.3	52.9
74.5°	55.6	56.2	56.7	56.8	57.9	56.8	56.0	55.1	54.2	52.5	50.8
75°	53.6	54.5	54.8	54.9	55.9	54.8	54.0	53.2	52.2	50.3	48.9
75.5°	51.6	52.5	52.8	52.9	53.9	52.9	52.0	51.2	50.2	48.4	46.8
76°	49.7	50.4	50.8	50.8	51.7	51.0	50.1	49.2	48.2	46.4	45.0
76.5°	47.6	48.4	48.8	48.8	50.0	48.9	48.0	47.2	46.3	44.4	42.9
77°	45.6	46.5	46.8	46.8	47.9	47.0	46.1	45.2	44.3	42.5	41.0
77.5°	43.6	44.4	44.8	44.9	45.9	45.0	44.1	43.2	42.3	40.5	39.2
78°	41.7	42.7	42.8	42.8	43.7	43.0	42.2	41.3	40.4	38.6	37.2
78.5°	39.7	40.6	40.9	41.0	41.9	41.0	40.2	39.4	38.5	36.8	35.3
79°	38.0	38.6	39.0	39.0	39.9	39.1	38.3	37.6	36.5	34.8	33.4
79.5°	36.0	36.9	37.1	37.0	38.0	37.2	36.4	35.6	34.7	33.0	31.4
80°	34.1	34.9	35.2	35.2	36.1	35.3	34.5	33.7	32.8	31.1	29.8
80.5°	32.2	32.9	33.3	33.3	34.2	33.4	32.7	31.9	30.9	29.3	28.0
81°	30.3	31.1	31.5	31.4	32.3	31.5	30.9	30.1	29.2	27.5	26.1
81.5°	28.5	29.3	29.6	29.6	30.4	29.7	29.0	28.2	27.3	25.8	24.3
82°	26.7	27.5	27.8	27.8	28.6	27.8	27.2	26.4	25.6	24.0	22.6
82.5°	25.0	25.8	26.1	26.0	26.7	26.1	25.4	24.8	23.9	22.2	21.1
83°	23.2	24.0	24.2	24.2	25.0	24.3	23.7	23.0	22.3	20.8	19.4
83.5°	21.5	22.3	22.6	22.5	23.3	22.6	22.0	21.4	20.6	19.1	17.6
84°	19.9	20.7	21.0	20.9	21.6	21.0	20.4	19.7	18.9	17.4	16.1
84.5°	18.2	19.0	19.3	19.2	20.0	19.3	18.9	18.1	17.2	15.8	14.3
85°	16.6	17.2	17.7	17.5	18.2	17.6	17.2	16.5	15.7	14.1	12.8
85.5°	14.9	15.6	16.0	15.9	16.5	16.0	15.5	14.8	14.0	12.6	11.3
86°	13.3	14.0	14.4	14.2	14.8	14.4	14.0	13.3	12.5	11.0	9.7
86.5°	11.7	12.6	12.7	12.7	13.2	12.8	12.3	11.7	10.9	9.5	8.1
87°	10.2	11.3	11.2	11.1	11.7	11.3	10.9	10.1	9.3	8.1	6.7
87.5°	8.7	9.4	9.7	9.6	10.1	9.7	9.3	8.7	7.9	6.5	5.3
88°	7.1	7.9	8.1	8.1	8.6	8.2	7.8	7.2	6.4	5.1	4.0
88.5°	5.8	6.4	6.6	6.6	7.1	6.8	6.3	5.8	5.1	3.9	2.7



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.9	1.9	2.4	2.4	2.8	2.6	2.3	1.6	0.5	0.4	0.2
90.5°	0.6	0.8	1.1	1.3	1.8	1.4	0.8	0.3	0.4	0.4	0.1
91°	0.6	0.5	0.6	0.7	0.5	0.4	0.5	0.3	0.4	0.3	0.1
91.5°	0.6	0.5	0.6	0.6	0.2	0.4	0.5	0.4	0.3	0.3	0.1
92°	0.5	0.5	0.6	0.6	0.1	0.4	0.4	0.3	0.3	0.3	0.1
92.5°	0.5	0.5	0.5	0.5	0.1	0.4	0.4	0.3	0.3	0.3	0.1
93°	0.5	0.5	0.5	0.5	0.1	0.4	0.4	0.3	0.3	0.3	0.1
93.5°	0.5	0.5	0.6	0.5	0.1	0.4	0.4	0.3	0.3	0.3	0.1
94°	0.5	0.5	0.6	0.5	0.2	0.4	0.4	0.3	0.3	0.3	0.1
94.5°	0.5	0.5	0.5	0.5	0.2	0.4	0.4	0.4	0.3	0.3	0.1
95°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.3	0.3	0.1
95.5°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.3	0.3	0.1
96°	0.5	0.5	0.5	0.5	0.1	0.4	0.4	0.4	0.4	0.3	0.1
96.5°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.2
97°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.1
97.5°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.5	0.3	0.1
98°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.3
98.5°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.2
99°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.3
99.5°	0.5	0.5	0.5	0.5	0.0	0.4	0.4	0.4	0.4	0.3	0.3
100°	0.5	0.5	0.5	0.5	0.2	0.5	0.4	0.4	0.4	0.3	0.4
100.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.4	0.4	0.4	0.3	0.2
101°	0.5	0.5	0.5	0.5	0.1	0.5	0.4	0.4	0.4	0.3	0.2
101.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.4	0.4	0.4	0.3	0.1
102°	0.5	0.5	0.5	0.5	0.1	0.5	0.4	0.4	0.4	0.3	0.2
102.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.4	0.4	0.3	0.3
103°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.4	0.4	0.4	0.2
103.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.4	0.4	0.3	0.2
104°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.4	0.3	0.2
104.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.4	0.5	0.2
105°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.4	0.5	0.3
105.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.6	0.5	0.5	0.4	0.3
106°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.3
106.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.3
107°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.3
107.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.3
108°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.3
108.5°	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5	0.4	0.6
109°	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.4	0.4
109.5°	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.4
110°	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5
110.5°	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.4
111°	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.4



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.3
113°	0.5	0.5	0.5	0.5	0.3	0.6	0.5	0.5	0.5	0.5	0.3
113.5°	0.5	0.5	0.5	0.5	0.3	0.6	0.6	0.5	0.5	0.5	0.3
114°	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.3
114.5°	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.3
115°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.5	0.5	0.3
115.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.5	0.5	0.4
116°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.4
116.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.4
117°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
117.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
118°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
118.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
119°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
119.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.3
120°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.4
120.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.4	0.4
121°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.4	0.5
121.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.4	0.5
122°	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.4	0.5
122.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
123°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
123.5°	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5
124°	0.6	0.5	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.5	0.5
124.5°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
125°	0.5	0.5	0.5	0.5	0.4	0.6	0.6	0.7	0.6	0.5	0.6
125.5°	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.5	0.6
126°	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.5	0.5
126.5°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
127°	0.7	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
127.5°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
128°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
128.5°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
129°	0.6	0.5	0.5	0.5	0.4	0.6	0.6	0.6	0.6	0.5	0.5
129.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.5
130°	0.6	0.5	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.5
130.5°	0.6	0.5	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.5
131°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.5
131.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.5
132°	0.6	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.6
132.5°	0.6	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.6
133°	0.7	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.6	0.6
133.5°	0.7	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.6	0.6



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.6	0.6	0.6	0.6
135.5°	0.8	0.8	0.5	0.6	0.4	0.6	0.7	0.7	0.8	0.6	0.6
136°	0.8	0.8	0.5	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
136.5°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
137°	0.8	0.8	0.7	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
137.5°	0.8	0.8	0.7	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
138°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
138.5°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
139°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
139.5°	0.8	0.8	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
140°	0.8	0.9	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.6	0.6
140.5°	0.8	0.9	0.7	0.6	0.4	0.7	0.7	0.7	0.7	0.6	0.6
141°	0.8	1.0	0.7	0.7	0.4	0.7	0.7	0.7	0.7	0.6	0.6
141.5°	0.8	1.0	0.7	0.6	0.4	0.7	0.7	0.7	0.7	0.6	0.6
142°	0.8	1.0	0.8	0.8	0.4	0.8	0.7	0.7	0.8	0.6	0.6
142.5°	0.8	1.0	0.8	0.8	0.4	0.7	0.7	0.7	0.8	0.6	0.6
143°	0.8	1.0	0.8	0.7	0.5	0.7	0.7	0.7	0.8	0.6	0.6
143.5°	0.8	1.1	0.8	0.8	0.5	0.7	0.7	0.8	0.8	0.7	0.6
144°	0.8	1.0	0.8	0.8	0.5	0.8	0.7	0.8	0.8	0.6	0.6
144.5°	0.8	1.0	0.8	0.8	0.4	0.8	0.7	0.8	0.8	0.6	0.6
145°	0.8	1.0	0.8	0.9	0.4	0.8	0.8	0.8	0.8	0.7	0.7
145.5°	0.8	1.0	0.8	0.9	0.4	0.8	0.8	0.8	0.8	0.7	0.6
146°	0.8	1.1	0.8	0.8	0.4	0.8	0.8	0.8	0.8	0.7	0.8
146.5°	1.0	1.0	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.7	0.8
147°	1.0	1.0	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.7	0.8
147.5°	0.9	1.0	0.8	1.0	0.6	0.8	0.8	0.8	0.8	0.7	0.8
148°	0.9	1.0	0.8	1.0	0.6	0.9	0.8	0.8	0.8	0.7	0.8
148.5°	0.9	1.0	0.8	0.9	0.6	0.8	0.8	0.8	0.8	0.7	0.8
149°	0.9	1.0	0.9	0.9	0.6	0.8	0.8	0.8	0.9	0.7	0.8
149.5°	1.0	1.0	0.9	0.9	0.6	0.8	0.8	0.8	0.8	0.7	0.8
150°	1.0	1.0	1.0	0.9	0.6	0.8	0.8	0.8	0.9	0.8	0.8
150.5°	1.0	1.0	1.0	1.0	0.6	0.8	0.8	0.8	0.9	0.8	0.8
151°	1.0	1.0	0.9	0.9	0.7	0.8	0.8	0.8	0.9	0.8	0.8
151.5°	1.0	1.0	0.9	1.0	0.6	0.8	0.8	0.8	0.9	0.8	0.8
152°	1.1	1.0	0.9	1.0	0.6	0.8	0.8	0.8	0.9	0.8	0.8
152.5°	1.1	1.0	0.9	1.0	0.7	0.8	0.8	0.8	0.9	0.8	0.8
153°	1.0	1.0	1.0	1.0	0.7	0.8	0.8	0.8	0.9	0.9	0.8
153.5°	1.0	1.0	1.0	1.0	0.7	0.8	0.8	0.9	0.9	0.9	0.9
154°	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.9	0.9	0.8	0.8
154.5°	1.0	1.0	1.0	1.0	0.8	0.9	0.8	0.9	1.0	0.8	1.0
155°	1.0	1.0	1.0	1.0	0.8	0.9	0.9	1.0	1.0	0.8	0.8
155.5°	1.1	1.0	1.0	1.0	0.7	0.9	0.9	0.9	1.0	0.8	0.8
156°	1.1	1.1	1.0	1.0	0.8	0.9	1.0	0.9	1.0	0.8	0.8



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.1	1.0	1.0	1.2	0.6	1.0	1.0	1.0	1.0	0.9	0.8
158°	1.1	1.0	1.0	1.1	0.7	1.0	1.0	1.1	1.0	0.8	0.9
158.5°	1.2	1.0	1.0	1.1	0.8	1.0	1.0	1.1	1.0	1.0	0.8
159°	1.2	1.0	1.0	1.1	0.7	1.0	1.0	1.0	1.0	1.0	0.8
159.5°	1.2	1.0	1.0	1.1	0.7	1.0	1.0	1.0	1.0	1.0	0.8
160°	1.2	1.0	1.0	1.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0
160.5°	1.2	1.0	1.0	1.1	0.7	1.0	1.1	1.0	1.0	1.0	1.0
161°	1.2	1.0	1.0	1.1	0.7	1.0	1.1	1.1	1.0	1.0	0.8
161.5°	1.2	1.0	1.1	1.1	0.7	1.0	1.0	1.1	1.0	1.0	0.8
162°	1.2	1.0	1.0	1.1	0.7	1.0	1.0	1.1	1.0	1.0	0.8
162.5°	1.2	1.0	1.0	1.1	0.7	1.0	1.1	1.1	1.0	1.0	1.0
163°	1.2	1.0	1.2	1.1	0.7	1.0	1.1	1.1	1.0	1.0	1.0
163.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0
164°	1.2	1.0	1.1	1.1	0.9	1.0	1.1	1.1	1.0	1.1	1.0
164.5°	1.2	1.0	1.1	1.1	0.9	1.0	1.1	1.1	0.9	1.1	1.0
165°	1.2	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0
165.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0
166°	1.2	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0
166.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0
167°	1.2	1.0	1.1	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.0
167.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.0	1.1	1.2
168°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.0	1.2	1.2
168.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.0	1.3	1.1
169°	1.2	1.0	1.1	1.1	0.9	1.0	1.2	1.1	1.0	1.2	1.1
169.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
170°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
170.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
171°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.2	1.2	1.0
171.5°	1.2	1.0	1.1	1.1	0.9	1.0	1.2	1.1	1.2	1.2	1.0
172°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
172.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
173°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
173.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
174°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
174.5°	1.2	1.0	1.1	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
175°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
175.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
176°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
176.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
177°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
177.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
178°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
178.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	250.0	250.0	250.0	250.0	250.0	250.0
0.5°	250.0	250.0	250.0	250.3	250.0	250.0
1°	250.0	249.9	249.9	250.1	249.9	250.0
1.5°	249.9	249.9	249.8	250.0	249.9	250.0
2°	249.8	249.7	249.6	249.9	249.8	249.9
2.5°	249.7	249.5	249.6	249.8	249.7	249.9
3°	249.4	249.5	249.3	249.6	249.5	249.9
3.5°	249.2	249.2	249.2	249.4	249.4	249.7
4°	249.0	248.9	249.0	249.3	249.2	249.5
4.5°	248.7	248.8	248.9	249.0	249.1	249.3
5°	248.5	248.5	248.6	248.9	248.7	249.0
5.5°	248.2	248.1	248.2	248.4	248.5	248.8
6°	248.2	247.9	247.9	248.2	248.1	248.6
6.5°	247.6	247.5	247.7	247.8	248.0	248.3
7°	247.3	247.2	247.3	247.7	247.5	248.1
7.5°	247.0	246.9	247.0	247.2	247.3	247.8
8°	246.5	246.5	246.5	246.9	246.8	247.4
8.5°	246.1	246.0	246.2	246.4	246.6	247.1
9°	245.8	245.7	245.7	246.1	246.0	246.9
9.5°	245.3	245.1	245.9	245.5	245.7	246.2
10°	244.8	244.7	244.8	245.1	245.2	245.9
10.5°	244.3	244.1	244.3	244.6	244.9	245.5
11°	243.7	243.7	243.8	244.2	244.2	245.0
11.5°	243.2	243.0	243.3	243.6	243.8	244.6
12°	242.8	242.5	242.7	243.2	243.3	244.0
12.5°	242.1	241.9	242.1	242.5	242.8	243.6
13°	241.5	241.4	241.5	242.0	242.1	243.0
13.5°	240.9	240.6	240.8	241.3	241.6	242.4
14°	240.2	240.2	240.1	240.8	241.0	241.8
14.5°	239.5	239.4	239.6	240.0	240.4	241.2
15°	238.9	238.9	238.9	239.6	239.7	240.6
15.5°	238.1	238.1	238.3	238.7	239.2	240.0
16°	237.6	237.5	237.5	238.1	238.4	239.2
16.5°	236.8	236.7	236.8	237.3	237.8	238.6
17°	236.1	236.0	235.9	236.7	236.9	237.8
17.5°	235.3	235.1	235.3	235.8	236.3	237.1
18°	234.6	234.5	234.5	235.1	235.5	236.5
18.5°	233.6	233.5	233.6	234.4	234.6	235.6
19°	232.8	232.8	232.7	233.6	233.8	234.8
19.5°	231.8	231.9	231.9	232.5	233.1	234.1
20°	231.1	231.1	231.0	231.7	232.2	233.2
20.5°	230.1	230.2	230.3	230.7	231.3	232.3
21°	229.3	229.3	229.3	230.0	230.6	231.4



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	226.5	226.4	226.5	227.1	227.6	228.8
23°	225.4	225.5	225.5	226.3	226.8	227.8
23.5°	224.4	224.4	224.5	225.2	225.9	226.7
24°	223.4	223.5	223.5	224.3	224.7	225.9
24.5°	222.4	222.5	222.4	223.1	223.7	224.9
25°	221.5	221.4	221.3	222.2	222.7	223.9
25.5°	220.2	220.3	220.3	221.1	221.8	222.8
26°	219.1	219.3	219.2	220.0	221.2	221.8
26.5°	218.1	218.3	218.3	218.8	219.6	220.6
27°	217.0	217.3	217.2	217.9	218.5	219.6
27.5°	215.8	216.0	215.9	216.7	217.5	218.5
28°	214.6	214.9	214.8	215.6	216.4	217.5
28.5°	213.4	213.8	213.7	214.5	215.3	216.3
29°	212.3	212.5	212.5	213.3	214.1	215.2
29.5°	211.0	211.3	211.2	212.1	213.0	214.1
30°	209.7	210.1	210.0	210.9	211.8	213.0
30.5°	208.6	208.8	208.8	209.6	210.6	211.8
31°	207.4	207.6	207.5	208.4	209.3	210.6
31.5°	206.0	206.3	206.2	207.0	208.0	209.3
32°	204.8	205.0	204.9	205.9	206.8	208.0
32.5°	203.4	203.6	203.6	204.5	205.5	206.8
33°	202.1	202.3	202.2	203.2	204.1	205.6
33.5°	200.8	200.9	200.9	201.8	203.0	204.2
34°	199.4	199.6	199.6	200.5	201.7	203.0
34.5°	198.0	198.1	198.2	199.1	200.2	201.6
35°	196.6	196.8	196.7	197.7	198.8	200.3
35.5°	195.1	195.4	195.3	196.4	197.4	198.9
36°	193.8	193.9	193.8	195.0	196.0	197.5
36.5°	192.2	192.4	192.4	193.5	194.6	196.0
37°	190.8	191.1	191.0	192.1	193.1	194.7
37.5°	189.3	189.5	189.5	190.6	191.6	193.2
38°	187.8	188.0	188.0	189.2	190.1	191.8
38.5°	186.2	186.4	186.5	187.7	188.7	190.3
39°	184.8	185.1	185.1	186.2	187.2	188.9
39.5°	183.3	183.5	183.6	184.7	185.7	187.3
40°	181.7	182.0	182.0	183.2	184.3	185.9
40.5°	180.1	180.3	180.5	181.6	182.7	184.4
41°	178.6	178.8	178.8	180.0	181.1	183.0
41.5°	177.0	177.2	177.3	178.4	179.6	181.3
42°	175.4	175.7	175.6	176.9	177.9	179.8
42.5°	173.7	174.0	174.1	175.2	176.4	178.2
43°	172.1	172.3	172.4	173.6	174.7	176.6
43.5°	170.4	170.6	170.7	171.9	173.2	175.0



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	165.4	165.6	165.6	166.9	168.2	170.1
45.5°	163.6	163.9	164.0	165.1	166.5	168.4
46°	162.0	162.2	162.2	163.4	164.8	166.7
46.5°	160.2	160.5	160.5	161.7	163.1	165.0
47°	158.4	158.7	158.8	160.0	161.4	163.4
47.5°	156.6	156.8	157.0	158.1	159.8	161.5
48°	154.9	155.1	155.2	156.4	157.9	159.8
48.5°	153.1	153.3	153.4	154.6	156.2	158.1
49°	151.4	151.6	151.8	152.9	154.4	156.4
49.5°	149.6	149.8	150.0	151.2	152.8	154.7
50°	147.8	147.9	148.2	149.3	151.0	152.8
50.5°	146.0	146.1	146.3	147.5	149.2	151.1
51°	144.2	144.2	144.4	145.7	147.4	149.3
51.5°	142.2	142.3	142.7	143.9	145.6	147.5
52°	140.4	140.4	140.8	142.0	143.7	145.7
52.5°	138.5	138.6	138.9	140.2	141.9	143.8
53°	136.7	136.7	137.0	138.2	140.1	142.0
53.5°	134.8	134.7	135.1	136.4	138.2	140.2
54°	132.8	132.8	133.2	134.5	136.3	138.3
54.5°	130.9	130.9	131.3	132.5	134.3	136.5
55°	129.0	129.0	129.3	130.5	132.5	134.6
55.5°	127.2	127.0	127.4	128.7	130.4	132.5
56°	125.2	125.1	125.4	126.7	128.5	130.7
56.5°	123.3	123.1	123.6	124.8	126.7	128.7
57°	121.2	121.0	121.6	122.8	124.6	126.8
57.5°	119.4	119.1	119.7	120.8	122.7	124.7
58°	117.3	117.2	117.6	118.9	120.8	122.9
58.5°	115.4	115.2	115.7	117.0	118.9	120.8
59°	113.4	113.2	113.6	114.9	116.8	119.0
59.5°	111.4	111.2	111.7	112.9	114.8	116.8
60°	109.4	109.2	109.5	111.0	112.8	114.8
60.5°	107.4	107.1	107.7	108.9	110.7	112.8
61°	105.3	105.1	105.5	106.8	108.6	110.8
61.5°	103.3	103.2	103.6	104.8	106.7	108.7
62°	101.4	101.1	101.4	102.8	104.6	106.7
62.5°	99.3	98.9	99.4	100.6	102.5	104.6
63°	97.2	96.9	97.3	98.7	100.4	102.6
63.5°	95.1	94.8	95.2	96.6	98.5	100.4
64°	93.1	92.8	93.2	94.6	96.3	98.5
64.5°	91.0	90.7	91.2	92.5	94.3	96.4
65°	88.9	88.6	89.0	90.4	92.2	94.4
65.5°	86.9	86.7	87.1	88.2	90.2	92.3
66°	84.8	84.6	85.0	86.5	88.0	90.2



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	78.6	78.3	78.7	80.1	82.2	84.2
68°	76.5	76.2	76.6	78.1	80.1	82.2
68.5°	74.5	74.1	74.6	76.0	78.1	80.1
69°	72.5	72.1	72.5	74.0	76.0	78.1
69.5°	70.4	69.9	70.4	71.8	74.0	76.0
70°	68.4	67.9	68.4	69.9	72.0	74.0
70.5°	66.4	65.9	66.3	67.8	70.0	71.9
71°	64.4	63.8	64.2	65.8	67.9	69.9
71.5°	62.2	61.7	62.2	63.6	65.9	67.8
72°	60.2	59.7	60.1	61.6	63.7	65.8
72.5°	58.1	57.7	58.1	59.6	61.7	63.7
73°	56.1	55.6	56.1	57.6	59.6	61.7
73.5°	54.1	53.6	54.2	55.5	57.5	59.6
74°	52.1	51.6	52.1	53.7	55.5	57.6
74.5°	50.1	49.5	50.2	51.6	53.6	55.6
75°	48.1	47.6	48.1	49.5	51.5	53.6
75.5°	46.0	45.5	46.2	47.5	49.6	51.6
76°	44.1	43.5	44.1	45.6	47.5	49.7
76.5°	42.2	41.4	42.2	43.6	45.5	47.6
77°	40.2	39.5	40.2	41.6	43.5	45.6
77.5°	38.3	37.7	38.3	39.7	41.5	43.6
78°	36.4	35.6	36.3	37.9	39.5	41.7
78.5°	34.4	33.7	34.4	35.9	37.7	39.7
79°	32.6	31.8	32.6	34.0	35.7	38.0
79.5°	30.8	30.0	30.7	32.0	34.0	36.0
80°	28.9	28.0	28.8	30.2	32.1	34.1
80.5°	27.0	26.3	27.0	28.3	30.2	32.2
81°	25.3	24.5	25.2	26.6	28.4	30.3
81.5°	23.5	22.7	23.4	24.9	26.6	28.5
82°	21.7	21.2	21.9	23.1	24.7	26.7
82.5°	20.2	19.3	20.1	21.5	23.2	25.0
83°	18.6	17.7	18.4	19.9	21.5	23.2
83.5°	16.8	16.0	16.8	18.1	19.8	21.5
84°	15.1	14.3	15.1	16.5	18.3	19.9
84.5°	13.6	12.8	13.5	14.9	16.5	18.2
85°	11.9	11.1	11.8	13.2	14.9	16.6
85.5°	10.4	9.6	10.3	11.7	13.3	14.9
86°	8.9	8.0	8.8	10.1	11.7	13.3
86.5°	7.4	6.5	7.2	8.6	10.2	11.7
87°	5.9	5.1	5.8	7.0	8.6	10.2
87.5°	4.6	3.8	4.4	5.6	7.1	8.7
88°	3.3	2.7	3.2	4.2	5.7	7.1
88.5°	1.9	1.5	1.9	2.8	4.3	5.8



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.6	0.5	0.6	0.5	0.7	0.8
135.5°	0.6	0.5	0.6	0.5	0.7	0.8
136°	0.6	0.5	0.5	0.5	0.7	0.8
136.5°	0.6	0.5	0.6	0.5	0.7	0.8
137°	0.6	0.5	0.6	0.5	0.7	0.8
137.5°	0.6	0.5	0.6	0.5	0.7	0.8
138°	0.6	0.5	0.6	0.5	0.7	0.8
138.5°	0.6	0.5	0.6	0.5	0.7	0.8
139°	0.6	0.5	0.7	0.6	0.7	0.8
139.5°	0.6	0.5	0.7	0.6	0.7	0.8
140°	0.6	0.5	0.7	0.6	0.8	0.8
140.5°	0.7	0.5	0.7	0.6	0.8	0.8
141°	0.7	0.5	0.7	0.6	0.7	0.8
141.5°	0.7	0.5	0.7	0.6	0.8	0.8
142°	0.8	0.5	0.7	0.7	0.8	0.8
142.5°	0.7	0.5	0.7	0.7	0.8	0.8
143°	0.7	0.5	0.7	0.7	0.8	0.8
143.5°	0.7	0.6	0.7	0.8	0.8	0.8
144°	0.7	0.6	0.7	0.8	0.8	0.8
144.5°	0.7	0.6	0.7	0.7	0.9	0.8
145°	0.7	0.6	0.8	0.8	0.9	0.8
145.5°	0.7	0.6	0.8	0.8	0.9	0.8
146°	0.7	0.6	0.8	0.8	0.9	0.8
146.5°	0.7	0.8	0.8	0.8	0.9	1.0
147°	0.7	0.8	0.8	0.8	0.9	1.0
147.5°	0.7	0.8	0.8	0.8	1.0	0.9
148°	0.7	0.8	0.8	0.9	1.0	0.9
148.5°	0.7	0.9	0.8	0.9	1.0	0.9
149°	0.7	0.9	0.9	0.9	1.1	0.9
149.5°	0.7	0.8	0.9	1.0	1.1	1.0
150°	0.8	0.8	0.9	1.0	1.0	1.0
150.5°	0.8	0.8	1.0	1.0	1.0	1.0
151°	0.8	0.8	1.0	1.0	1.1	1.0
151.5°	0.8	0.8	1.0	1.0	1.1	1.0
152°	0.9	0.9	1.0	1.0	1.1	1.1
152.5°	0.9	1.0	1.0	1.0	1.1	1.1
153°	0.8	0.9	1.1	1.0	1.1	1.0
153.5°	0.8	0.9	1.1	1.0	1.1	1.0
154°	0.8	0.9	1.0	1.0	1.1	1.0
154.5°	0.9	0.9	1.2	1.0	1.1	1.0
155°	0.8	0.9	1.2	1.0	1.1	1.0
155.5°	1.0	0.9	1.1	1.0	1.1	1.1
156°	1.0	0.9	1.1	1.0	1.1	1.1



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.0	0.9	1.1	1.0	1.1	1.1
158°	1.0	0.9	1.1	1.0	1.1	1.1
158.5°	1.0	0.9	1.1	1.0	1.1	1.2
159°	1.0	0.9	1.1	1.0	1.1	1.2
159.5°	1.0	0.9	1.1	1.0	1.1	1.2
160°	1.0	0.9	1.1	1.0	1.1	1.2
160.5°	1.0	0.9	1.1	1.0	1.1	1.2
161°	1.0	1.0	1.1	1.0	1.1	1.2
161.5°	1.0	1.0	1.1	1.0	1.0	1.2
162°	1.0	1.0	1.1	1.0	1.0	1.2
162.5°	1.0	1.0	1.1	1.0	1.0	1.2
163°	1.0	1.0	1.1	1.0	1.0	1.2
163.5°	1.0	1.0	1.1	1.0	1.0	1.2
164°	1.0	1.0	1.1	1.0	1.0	1.2
164.5°	1.1	1.0	1.1	1.0	1.0	1.2
165°	1.1	1.0	1.1	1.1	1.0	1.2
165.5°	1.1	1.1	1.1	1.0	1.0	1.2
166°	1.2	1.0	1.1	1.0	1.0	1.2
166.5°	1.2	1.0	1.1	1.1	1.0	1.2
167°	1.2	1.0	1.1	1.2	1.0	1.2
167.5°	1.2	1.0	1.2	1.1	1.0	1.2
168°	1.2	1.0	1.1	1.1	1.0	1.2
168.5°	1.2	1.0	1.1	1.1	1.0	1.2
169°	1.2	1.0	1.2	1.1	1.0	1.2
169.5°	1.2	1.0	1.2	1.1	1.0	1.2
170°	1.2	1.0	1.2	1.1	1.0	1.2
170.5°	1.2	1.0	1.2	1.1	1.0	1.2
171°	1.2	1.0	1.2	1.1	1.0	1.2
171.5°	1.2	1.0	1.2	1.1	1.0	1.2
172°	1.2	1.0	1.2	1.1	1.0	1.2
172.5°	1.2	1.0	1.2	1.1	1.0	1.2
173°	1.2	1.0	1.2	1.1	1.0	1.2
173.5°	1.2	1.0	1.2	1.1	1.0	1.2
174°	1.2	1.0	1.2	1.1	1.0	1.2
174.5°	1.2	1.0	1.2	1.1	1.0	1.2
175°	1.2	1.0	1.2	1.1	1.0	1.2
175.5°	1.2	1.0	1.2	1.1	1.0	1.2
176°	1.2	1.0	1.2	1.1	1.0	1.2
176.5°	1.2	1.0	1.2	1.1	1.0	1.2
177°	1.2	1.0	1.2	1.1	1.0	1.2
177.5°	1.2	1.0	1.2	1.1	1.0	1.2
178°	1.2	1.0	1.2	1.1	1.0	1.2
178.5°	1.2	1.0	1.2	1.1	1.0	1.2



TEST NUMBER: P417447

CATALOG NUMBER: SMD6S69SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.2	1.2	1.2	1.2	1.2	1.2



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	230.6	230.8	231.0	231.3	231.6	231.3	230.7	230.1	229.7	229.0	228.5
22°	229.7	229.9	230.2	230.3	230.7	230.3	229.7	229.2	228.8	228.0	227.5



44°	173.4	173.9	174.1	174.3	175.1	174.1	173.3	172.4	171.9	170.2	169.2
44.5°	171.7	172.2	172.6	172.8	173.6	172.6	171.6	170.7	170.1	168.5	167.4



66.5°	88.1	89.1	89.6	89.7	90.9	89.6	88.6	87.5	86.9	85.0	83.4
67°	86.3	87.2	87.5	87.6	88.7	87.8	86.8	85.7	84.8	83.0	81.4



89°	4.6	5.2	5.3	5.2	5.6	5.4	4.9	4.5	3.9	2.7	1.4
89.5°	2.1	3.7	3.8	3.8	4.5	4.0	3.6	3.1	2.2	1.1	0.3



111.5°	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.4
112°	0.5	0.5	0.5	0.5	0.2	0.5	0.6	0.5	0.5	0.5	0.4



134°	0.8	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.7	0.6
134.5°	0.8	0.8	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.6	0.6



156.5°	1.1	1.1	1.0	1.1	0.7	0.9	0.9	0.9	1.0	0.8	0.8
157°	1.2	1.0	1.0	1.0	0.7	1.0	1.0	0.9	1.0	0.9	0.9



179°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0
179.5°	1.2	1.0	1.2	1.1	1.0	1.0	1.2	1.1	1.1	1.2	1.0





21.5°	228.3	228.2	228.4	229.0	229.5	230.6
22°	227.4	227.5	227.4	228.1	228.5	229.7



44°	168.7	169.0	169.1	170.3	171.5	173.4
44.5°	167.0	167.3	167.4	168.6	169.9	171.7



66.5°	82.8	82.5	83.0	84.4	86.2	88.1
67°	80.7	80.4	80.9	82.3	84.2	86.3



89°	0.8	0.8	1.0	1.4	3.0	4.6
89.5°	0.4	0.6	0.6	0.7	1.2	2.1



111.5°	0.5	0.5	0.5	0.5	0.6	0.5
112°	0.5	0.5	0.5	0.5	0.6	0.5



134°	0.7	0.5	0.5	0.5	0.7	0.8
134.5°	0.6	0.5	0.6	0.5	0.7	0.8



156.5°	1.0	0.9	1.1	1.0	1.1	1.1
157°	1.0	0.9	1.1	1.0	1.1	1.2



179°	1.2	1.0	1.2	1.1	1.0	1.2
179.5°	1.2	1.0	1.2	1.1	1.0	1.2



(END OF REPORT)