

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: P417449

Luminaire Tested: **SMD6S69SWH - 3500K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417449  
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 - 3500K  
Description: SMD SELECTABLE CCT 3500K  
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 767.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

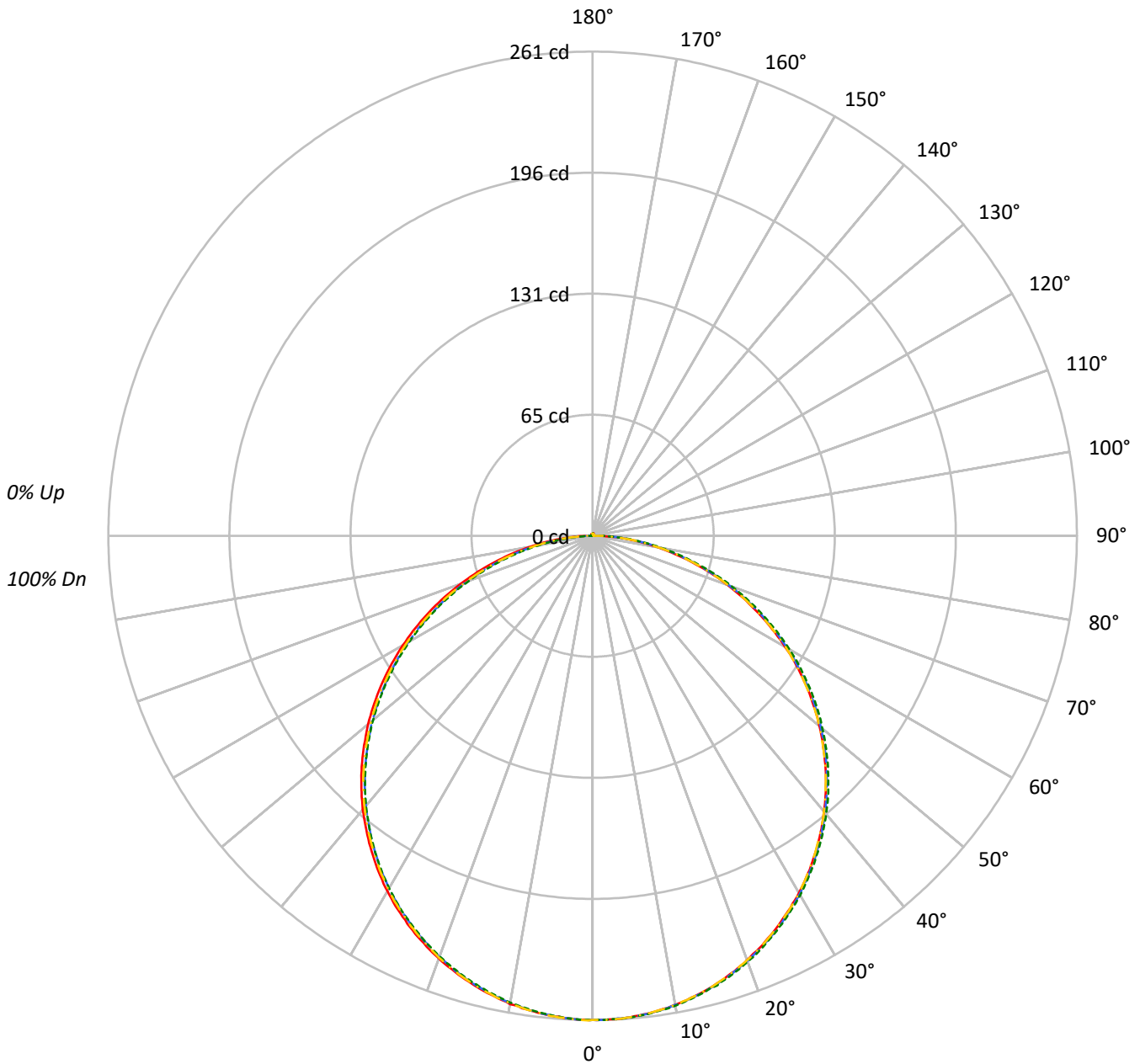
Input Watts (W): 9.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
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°	11238	11238	11238	11238
5°	11237	11246	11224	11211
10°	11223	11245	11210	11170
15°	11197	11224	11153	11117
20°	11152	11194	11106	11056
25°	11102	11159	11060	10984
30°	11057	11122	10997	10908
35°	10991	11059	10917	10801
40°	10904	11005	10836	10679
45°	10814	10924	10717	10522
50°	10690	10831	10577	10342
55°	10547	10719	10397	10111
60°	10325	10549	10170	9817
65°	10035	10320	9882	9424
70°	9731	10058	9517	8925
75°	9316	9698	9066	8268
80°	8827	9323	8480	7265
85°	8546	9386	8102	5730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.7	3.2
10°-20°	70.7	9.2
20°-30°	107.4	14.0
30°-40°	130.0	16.9
40°-50°	135.7	17.7
50°-60°	123.8	16.1
60°-70°	95.9	12.5
70°-80°	57.4	7.5
80°-90°	17.9	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°	0.5	0.1
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	202.8	26.4
0°-40°	332.8	43.4
0°-60°	592.4	77.2
0°-90°	763.6	99.5
90°-120°	1.4	0.2
90°-150°	2.9	0.4
90°-180°	4.0	0.5
0°-180°	767.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	261	261	261	261	261	
5°	260	260	260	259	260	25
15°	251	252	250	249	251	71
25°	234	235	233	231	234	108
35°	209	210	208	206	209	131
45°	178	179	176	173	178	137
55°	140	143	138	135	140	125
65°	98	101	97	92	98	98
75°	56	58	54	50	56	59
85°	17	19	16	12	17	18
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	1
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°	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0	261.0
0.5°	261.1	261.1	261.2	261.2	261.0	261.1	261.0	261.1	261.1	260.9	261.3
1°	261.0	261.1	261.0	261.1	261.0	261.1	261.2	260.9	260.9	260.9	261.0
1.5°	261.1	260.9	261.1	261.0	261.0	261.0	261.1	261.0	261.0	260.8	260.9
2°	260.9	261.0	261.0	261.0	260.9	261.0	261.1	261.0	260.8	260.8	260.8
2.5°	260.9	260.9	260.9	261.0	260.8	260.9	261.0	260.8	260.7	260.5	260.6
3°	260.9	260.7	260.5	260.8	261.1	261.0	260.7	260.6	260.5	260.5	260.4
3.5°	260.7	260.5	260.8	260.7	260.8	260.8	260.7	260.4	260.3	260.3	260.3
4°	260.5	260.4	260.5	260.5	260.7	260.5	260.4	260.2	259.9	260.1	259.9
4.5°	260.3	260.1	260.3	260.4	260.5	260.4	260.3	260.2	259.9	259.7	259.9
5°	260.0	259.9	260.1	260.2	260.2	260.0	260.1	260.0	259.7	259.6	259.5
5.5°	259.8	259.7	259.9	260.1	260.0	260.0	259.9	259.8	259.4	259.2	259.3
6°	259.5	259.6	259.7	259.8	259.8	259.8	259.5	259.5	259.1	259.0	259.0
6.5°	259.3	259.2	259.4	259.6	259.6	259.5	259.3	259.2	258.8	258.6	258.8
7°	259.0	258.9	259.1	259.2	259.3	259.1	259.0	258.8	258.4	258.4	258.3
7.5°	258.7	258.5	258.9	259.0	258.9	258.9	258.6	258.6	258.1	258.2	258.1
8°	258.3	258.3	258.5	258.6	258.6	258.5	258.3	258.1	257.7	257.6	257.6
8.5°	257.9	257.9	258.1	258.2	258.3	258.0	258.0	257.9	257.5	257.1	257.1
9°	257.8	257.5	257.7	257.8	258.0	257.8	257.6	257.4	256.8	256.8	256.6
9.5°	257.1	257.1	257.3	257.4	257.7	257.8	257.2	257.0	256.5	256.3	256.2
10°	256.7	256.7	256.8	256.9	257.2	257.0	256.6	256.5	256.4	255.8	255.8
10.5°	256.3	256.3	256.5	256.6	256.7	256.6	256.2	256.1	255.6	255.4	255.2
11°	255.8	255.8	255.9	256.0	256.3	256.1	255.7	255.6	255.0	254.8	254.7
11.5°	255.4	255.3	255.5	255.5	255.7	255.6	255.3	255.0	254.6	254.3	254.1
12°	254.7	254.7	254.8	255.0	255.2	255.0	254.7	254.5	253.9	253.8	253.7
12.5°	254.3	254.2	254.4	254.5	254.6	254.6	254.3	253.8	253.4	253.0	252.9
13°	253.7	253.6	253.8	253.8	254.2	254.1	253.6	253.1	252.9	252.5	252.3
13.5°	253.1	253.0	253.2	253.4	253.6	253.5	253.0	252.7	252.2	251.8	251.7
14°	252.5	252.5	252.7	252.7	253.0	252.9	252.4	252.1	251.6	251.2	251.0
14.5°	251.8	251.9	252.1	252.2	252.2	252.3	251.8	251.5	250.9	250.4	250.3
15°	251.2	251.3	251.4	251.4	251.8	251.5	251.2	250.6	250.2	249.8	249.7
15.5°	250.5	250.6	250.9	250.8	251.5	251.0	250.5	250.1	249.5	249.2	249.0
16°	249.8	249.9	249.9	250.1	250.4	250.3	249.7	249.3	248.8	248.4	248.2
16.5°	249.2	249.1	249.3	249.4	249.8	249.5	249.0	248.5	248.1	247.6	247.5
17°	248.3	248.4	248.6	248.8	249.2	248.9	248.3	247.9	247.4	247.0	246.6
17.5°	247.5	247.6	248.0	248.0	248.4	248.1	247.5	247.1	246.5	246.2	245.9
18°	246.9	246.9	247.1	247.3	247.6	247.3	246.7	246.3	245.7	245.4	245.0
18.5°	245.9	246.1	246.4	246.6	246.8	246.6	246.1	245.5	245.0	244.5	244.2
19°	245.1	245.4	245.5	245.6	246.0	245.7	245.0	244.7	244.2	243.7	243.2
19.5°	244.5	244.7	244.9	244.8	245.1	244.9	244.4	243.8	243.4	242.8	242.3
20°	243.4	243.8	243.9	244.0	244.3	244.0	243.4	242.9	242.4	241.9	241.5
20.5°	242.5	242.8	243.0	243.1	243.5	243.2	242.7	242.2	241.6	241.0	240.6
21°	241.5	241.9	242.1	242.3	242.8	242.3	241.6	241.1	240.7	240.0	239.6



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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°	238.9	239.1	239.3	239.5	239.9	239.6	238.8	238.3	237.7	237.1	236.7
23°	237.8	238.2	238.3	238.5	238.9	238.7	238.0	237.2	236.9	236.1	235.6
23.5°	236.7	237.2	237.5	237.6	237.8	237.6	237.0	236.4	235.9	234.9	234.7
24°	235.8	236.2	236.4	236.6	236.9	236.7	235.9	235.2	234.9	234.0	233.6
24.5°	234.8	235.1	235.4	235.6	235.9	235.7	234.8	234.3	233.8	232.8	232.5
25°	233.7	234.0	234.3	234.5	234.9	234.6	233.7	233.6	232.8	231.7	231.3
25.5°	232.6	232.9	233.3	233.5	233.7	233.5	232.7	232.1	231.8	230.7	230.3
26°	231.5	232.1	232.3	232.4	232.8	232.5	231.7	231.2	230.5	229.5	229.0
26.5°	230.3	230.8	231.1	231.3	231.7	231.4	230.6	230.0	229.5	228.5	228.0
27°	229.2	229.7	230.0	230.2	230.6	230.1	229.3	228.7	228.3	227.4	226.9
27.5°	228.1	228.5	229.0	229.2	229.4	229.1	228.4	227.8	227.3	226.2	225.6
28°	227.1	227.6	227.7	228.0	228.3	228.0	227.2	226.6	226.1	225.0	224.4
28.5°	225.8	226.5	226.8	226.9	227.3	226.9	226.0	225.5	224.9	223.7	223.2
29°	224.7	225.2	225.5	225.7	226.1	225.7	224.8	224.2	223.7	222.6	222.1
29.5°	223.6	224.2	224.3	224.5	224.8	224.5	223.6	223.1	222.5	221.3	220.6
30°	222.4	222.8	223.1	223.3	223.7	223.3	222.4	221.7	221.2	220.0	219.3
30.5°	221.1	221.6	221.9	222.0	222.4	221.9	221.1	220.5	220.0	218.8	218.0
31°	219.9	220.3	220.6	220.6	221.2	220.7	219.7	219.2	218.8	217.5	216.7
31.5°	218.5	219.3	219.3	219.4	219.8	219.5	218.5	217.9	217.3	216.1	215.4
32°	217.2	217.9	218.0	218.1	218.5	218.2	217.2	216.7	216.0	214.8	214.0
32.5°	215.9	216.3	216.7	216.9	217.2	216.8	215.8	215.3	214.8	213.4	212.7
33°	214.7	215.2	215.2	215.5	215.9	215.5	214.5	213.8	213.4	212.0	211.2
33.5°	213.2	213.8	214.0	214.2	214.5	214.1	213.0	212.4	212.0	210.8	209.9
34°	211.9	212.5	212.6	212.9	213.3	212.8	211.7	211.0	210.5	209.3	208.3
34.5°	210.5	211.0	211.3	211.4	211.9	211.3	210.4	209.8	209.1	207.8	207.0
35°	209.1	209.6	209.8	210.1	210.4	209.9	209.0	208.3	207.7	206.4	205.5
35.5°	207.7	208.4	208.4	208.6	209.1	208.4	207.5	206.9	206.2	204.9	204.1
36°	206.2	206.8	206.9	207.3	207.7	207.0	206.0	205.4	204.9	203.4	202.6
36.5°	204.7	205.2	205.6	205.8	206.2	205.6	204.5	203.9	203.3	202.0	201.1
37°	203.3	203.6	204.0	204.3	204.8	204.1	203.1	202.4	201.8	200.4	199.4
37.5°	201.7	202.1	202.6	202.8	203.4	202.5	201.6	200.9	200.3	198.9	197.9
38°	200.3	200.7	200.9	201.3	201.9	201.1	200.1	199.3	198.8	197.3	196.4
38.5°	198.7	199.2	199.5	199.8	200.4	199.5	198.6	197.7	197.2	195.8	194.8
39°	197.2	197.8	198.0	198.3	198.8	198.1	197.1	196.2	195.7	194.2	193.3
39.5°	195.6	196.4	196.4	196.7	197.4	196.5	195.5	194.7	194.2	192.8	191.8
40°	194.0	194.6	194.8	195.1	195.8	195.0	194.0	193.2	192.8	191.1	190.1
40.5°	192.5	193.1	193.3	193.6	194.2	193.3	192.5	191.6	191.0	189.5	188.5
41°	191.0	191.5	191.7	192.0	192.8	191.9	190.8	189.9	189.4	187.8	186.8
41.5°	189.3	189.9	190.2	190.4	191.2	190.1	189.2	188.4	187.8	186.2	185.3
42°	187.7	188.4	188.4	188.8	189.5	188.6	187.5	186.7	186.1	184.5	183.4
42.5°	186.1	186.6	186.8	187.1	187.9	186.8	185.9	185.0	184.5	182.9	181.9
43°	184.4	184.9	185.1	185.5	186.2	185.2	184.1	183.3	182.8	181.1	180.1
43.5°	182.7	183.2	183.4	183.8	184.5	183.5	182.6	181.8	181.1	179.4	178.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	177.6	178.2	178.4	178.6	179.4	178.5	177.3	176.4	176.0	174.4	173.0
45.5°	175.9	176.5	176.7	177.0	177.8	176.6	175.8	174.8	174.2	172.5	171.3
46°	174.0	174.6	175.0	175.2	176.1	174.9	173.8	172.9	172.4	170.6	169.5
46.5°	172.3	172.9	173.2	173.4	174.3	173.1	172.1	171.3	170.7	169.0	167.7
47°	170.5	171.1	171.5	171.5	172.5	171.4	170.3	169.4	168.8	167.1	165.9
47.5°	168.6	169.3	169.6	169.8	170.8	169.7	168.5	167.6	167.1	165.3	164.1
48°	166.9	167.8	167.8	168.1	169.0	167.7	166.6	165.8	165.0	163.5	162.2
48.5°	165.1	165.7	166.0	166.2	167.2	166.0	164.9	164.0	163.3	161.6	160.3
49°	163.3	163.9	164.2	164.3	165.4	164.1	163.0	162.2	161.5	159.9	158.7
49.5°	161.5	162.0	162.3	162.5	163.5	162.4	161.2	160.4	159.7	158.1	156.8
50°	159.6	160.1	160.4	160.6	161.7	160.5	159.4	158.7	157.9	156.1	154.8
50.5°	157.7	158.4	158.7	158.9	159.9	158.8	157.6	156.8	156.0	154.2	152.9
51°	155.9	156.5	156.9	157.0	158.1	156.8	155.7	154.9	154.1	152.3	151.0
51.5°	154.0	154.6	155.0	155.2	156.3	155.0	153.9	153.0	152.2	150.4	149.1
52°	152.1	152.7	153.0	153.2	154.4	153.1	151.9	151.1	150.2	148.5	147.2
52.5°	150.1	150.9	151.1	151.3	152.5	151.1	150.0	149.2	148.4	146.6	145.3
53°	148.2	148.9	149.2	149.4	150.5	149.2	148.1	147.3	146.3	144.7	143.3
53.5°	146.3	147.5	147.2	147.5	148.7	147.3	146.1	145.4	144.4	142.8	141.3
54°	144.4	145.0	145.3	145.5	146.6	145.3	144.1	143.4	142.4	140.7	139.2
54.5°	142.5	143.0	143.3	143.5	144.7	143.3	142.3	141.4	140.4	138.7	137.3
55°	140.5	141.1	141.4	141.5	142.8	141.4	140.2	139.4	138.5	136.7	135.4
55.5°	138.3	139.0	139.4	139.6	140.8	139.4	138.3	137.4	136.5	134.7	133.2
56°	136.4	137.0	137.4	137.6	138.7	137.5	136.3	135.4	134.4	132.6	131.2
56.5°	134.4	134.9	135.4	135.6	136.8	135.4	134.2	133.5	132.4	130.6	129.3
57°	132.4	133.0	133.3	133.6	134.7	133.4	132.2	131.4	130.2	128.5	127.2
57.5°	130.2	130.9	131.2	131.5	132.8	131.4	130.1	129.3	128.3	126.5	125.1
58°	128.3	128.8	129.2	129.5	130.7	129.4	128.3	127.4	126.3	124.5	123.1
58.5°	126.1	126.8	127.3	127.5	128.8	127.3	126.2	125.3	124.3	122.5	120.9
59°	124.2	124.9	125.2	125.4	126.6	125.3	124.2	123.3	122.2	120.5	118.9
59.5°	122.0	122.8	123.2	123.4	124.7	123.3	122.1	121.2	120.2	118.4	116.8
60°	119.9	120.8	121.1	121.3	122.5	121.2	120.1	119.1	118.1	116.3	114.8
60.5°	117.8	118.6	118.9	119.3	120.4	119.1	118.0	117.0	115.9	114.1	112.6
61°	115.7	116.6	116.9	117.1	118.3	117.1	115.9	114.8	113.9	112.0	110.5
61.5°	113.5	114.5	114.8	115.1	116.2	115.0	113.8	112.7	111.8	110.0	108.4
62°	111.4	112.4	112.7	112.9	114.1	112.9	111.8	110.7	109.7	107.8	106.3
62.5°	109.2	110.2	110.6	110.8	112.0	110.7	109.7	108.5	107.6	105.7	104.1
63°	107.1	108.2	108.5	108.7	109.8	108.6	107.6	106.3	105.4	103.5	102.0
63.5°	104.9	106.0	106.4	106.6	107.7	106.5	105.3	104.0	103.4	101.4	99.8
64°	102.8	103.8	104.2	104.3	105.6	104.3	103.2	101.9	101.2	99.3	97.7
64.5°	100.7	101.7	102.1	102.3	103.5	102.1	101.1	99.9	99.1	97.2	95.5
65°	98.5	99.5	100.0	100.1	101.3	100.1	99.0	97.8	97.0	95.1	93.4
65.5°	96.3	97.3	97.9	97.9	99.2	97.9	96.7	95.6	94.8	92.9	91.3
66°	94.2	95.1	95.7	95.7	97.0	95.7	94.7	93.4	92.7	90.9	89.3





TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	87.9	88.8	89.3	89.5	90.7	89.4	88.4	87.3	86.4	84.5	82.8
68°	85.8	86.8	87.1	87.3	88.6	87.3	86.2	85.2	84.2	82.3	80.7
68.5°	83.6	84.6	84.9	85.2	86.4	85.2	84.0	83.1	82.0	80.2	78.6
69°	81.5	82.4	82.8	83.0	84.2	82.9	82.0	81.0	79.9	78.0	76.4
69.5°	79.3	80.2	80.6	80.9	82.1	80.7	79.8	78.9	77.8	75.9	74.4
70°	77.3	78.2	78.5	78.7	79.9	78.5	77.6	76.7	75.6	73.7	72.1
70.5°	75.0	75.9	76.2	76.5	77.7	76.4	75.4	74.7	73.5	71.7	70.0
71°	73.0	73.9	74.1	74.4	75.6	74.3	73.3	72.6	71.3	69.4	67.8
71.5°	70.8	71.7	71.9	72.3	73.5	72.1	71.2	70.4	69.2	67.3	65.7
72°	68.7	69.5	69.8	70.1	71.1	70.0	69.1	68.3	67.1	65.2	63.6
72.5°	66.5	67.4	67.7	68.0	69.3	67.8	66.9	66.1	65.0	63.1	61.5
73°	64.4	65.2	65.6	65.8	67.0	65.7	64.8	64.0	62.7	60.9	59.3
73.5°	62.2	63.2	63.4	63.7	64.7	63.6	62.7	61.8	60.7	58.7	57.1
74°	60.1	61.0	61.3	61.5	62.5	61.4	60.6	59.7	58.7	56.7	55.2
74.5°	58.0	58.7	59.2	59.3	60.4	59.3	58.4	57.6	56.5	54.8	53.1
75°	56.0	56.9	57.2	57.3	58.3	57.2	56.4	55.5	54.5	52.5	51.0
75.5°	53.9	54.8	55.1	55.2	56.3	55.2	54.3	53.4	52.4	50.6	48.9
76°	51.8	52.6	53.0	53.1	54.0	53.2	52.3	51.4	50.3	48.5	46.9
76.5°	49.7	50.5	50.9	50.9	52.2	51.0	50.1	49.3	48.3	46.4	44.8
77°	47.6	48.5	48.9	48.9	50.0	49.0	48.1	47.2	46.2	44.4	42.8
77.5°	45.5	46.4	46.8	46.8	47.9	46.9	46.1	45.1	44.1	42.3	40.9
78°	43.5	44.5	44.7	44.7	45.7	44.9	44.0	43.1	42.2	40.3	38.8
78.5°	41.5	42.3	42.7	42.8	43.8	42.8	42.0	41.2	40.2	38.4	36.8
79°	39.6	40.3	40.7	40.7	41.7	40.8	40.0	39.2	38.1	36.3	34.9
79.5°	37.5	38.5	38.7	38.6	39.6	38.9	38.0	37.2	36.2	34.5	32.8
80°	35.6	36.4	36.7	36.7	37.6	36.8	36.0	35.2	34.2	32.5	31.1
80.5°	33.6	34.3	34.8	34.8	35.7	34.9	34.1	33.3	32.2	30.6	29.2
81°	31.7	32.5	32.8	32.8	33.7	32.9	32.2	31.4	30.5	28.7	27.2
81.5°	29.8	30.6	30.9	30.9	31.8	31.0	30.2	29.5	28.5	26.9	25.4
82°	27.9	28.7	29.1	29.1	29.8	29.0	28.4	27.6	26.7	25.0	23.6
82.5°	26.1	27.0	27.2	27.1	27.9	27.2	26.5	25.9	25.0	23.2	22.0
83°	24.2	25.0	25.3	25.3	26.1	25.4	24.7	24.0	23.2	21.7	20.2
83.5°	22.5	23.3	23.6	23.5	24.3	23.5	23.0	22.3	21.5	19.9	18.3
84°	20.8	21.6	21.9	21.9	22.5	22.0	21.3	20.6	19.8	18.1	16.8
84.5°	19.0	19.8	20.1	20.1	20.8	20.2	19.7	18.9	17.9	16.5	14.9
85°	17.3	18.0	18.5	18.3	19.0	18.4	17.9	17.2	16.4	14.8	13.4
85.5°	15.6	16.3	16.7	16.6	17.3	16.7	16.2	15.5	14.7	13.2	11.8
86°	13.9	14.6	15.0	14.8	15.5	15.1	14.6	13.9	13.1	11.5	10.1
86.5°	12.2	13.1	13.3	13.2	13.8	13.4	12.9	12.2	11.4	9.9	8.5
87°	10.6	11.8	11.7	11.5	12.2	11.8	11.3	10.6	9.8	8.4	7.0
87.5°	9.1	9.8	10.1	10.0	10.6	10.1	9.7	9.0	8.3	6.8	5.5
88°	7.4	8.2	8.4	8.4	9.0	8.6	8.1	7.5	6.7	5.3	4.2
88.5°	6.0	6.7	6.9	6.9	7.4	7.1	6.6	6.1	5.3	4.1	2.8



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.9	2.0	2.5	2.5	3.0	2.7	2.4	1.6	0.5	0.4	0.2
90.5°	0.6	0.9	1.1	1.4	1.9	1.5	0.8	0.3	0.4	0.4	0.1
91°	0.6	0.6	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	0.5	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	0.5
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	0.7
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	0.5
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: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**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	0.7	0.5	0.5	0.5	0.3
114°	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.5	0.5	0.3
114.5°	0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.6	0.5	0.5	0.3
115°	0.5	0.5	0.5	0.5	0.4	0.7	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	0.5
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	0.7	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	0.7	0.6	0.6	0.5	0.3
120°	0.5	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.5	0.4
120.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.4	0.4
121°	0.5	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.4	0.5
121.5°	0.5	0.5	0.5	0.5	0.4	0.6	0.7	0.6	0.6	0.4	0.5
122°	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.6	0.6	0.4	0.5
122.5°	0.5	0.5	0.5	0.5	0.4	0.7	0.7	0.6	0.6	0.5	0.5
123°	0.5	0.5	0.5	0.5	0.4	0.7	0.7	0.6	0.6	0.5	0.5
123.5°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.6	0.6	0.7	0.5
124°	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.6	0.5	0.5
124.5°	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.6	0.5	0.5
125°	0.5	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.6	0.5	0.6
125.5°	0.7	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.6	0.5	0.6
126°	0.6	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5
126.5°	0.6	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.7	0.5	0.5
127°	0.7	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.5	0.5
127.5°	0.7	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.7	0.5	0.5
128°	0.7	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.7	0.5	0.5
128.5°	0.7	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.7	0.5	0.5
129°	0.7	0.5	0.5	0.5	0.4	0.7	0.7	0.7	0.7	0.5	0.5
129.5°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.5
130°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.5
130.5°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.5
131°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.5
131.5°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.5
132°	0.7	0.6	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.5	0.6
132.5°	0.7	0.7	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.5	0.6
133°	0.7	0.7	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.6	0.6
133.5°	0.7	0.6	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.6	0.6



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**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: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	261.0	261.0	261.0	261.0	261.0	261.0
0.5°	261.0	261.0	261.0	261.3	261.0	261.1
1°	261.0	260.9	260.9	261.1	260.9	261.0
1.5°	261.0	260.9	260.8	261.0	261.0	261.1
2°	260.8	260.7	260.6	260.9	260.8	260.9
2.5°	260.7	260.5	260.6	260.8	260.7	260.9
3°	260.4	260.5	260.3	260.6	260.5	260.9
3.5°	260.2	260.2	260.2	260.3	260.4	260.7
4°	259.9	259.9	260.0	260.3	260.2	260.5
4.5°	259.6	259.7	259.8	259.9	260.1	260.3
5°	259.5	259.4	259.6	259.9	259.7	260.0
5.5°	259.2	259.1	259.2	259.3	259.4	259.8
6°	259.1	258.8	258.8	259.1	259.0	259.5
6.5°	258.5	258.4	258.6	258.7	258.9	259.3
7°	258.2	258.1	258.2	258.6	258.4	259.0
7.5°	257.9	257.7	257.9	258.1	258.2	258.7
8°	257.3	257.3	257.3	257.8	257.6	258.3
8.5°	257.0	256.9	257.0	257.2	257.4	257.9
9°	256.6	256.5	256.5	256.9	256.9	257.8
9.5°	256.1	255.9	256.8	256.3	256.6	257.1
10°	255.5	255.5	255.6	255.9	256.0	256.7
10.5°	255.1	254.9	255.1	255.4	255.6	256.3
11°	254.4	254.4	254.5	254.9	255.0	255.8
11.5°	253.9	253.7	254.0	254.4	254.6	255.4
12°	253.5	253.2	253.4	253.9	254.0	254.7
12.5°	252.8	252.6	252.8	253.1	253.5	254.3
13°	252.2	252.0	252.1	252.7	252.7	253.7
13.5°	251.5	251.2	251.4	252.0	252.2	253.1
14°	250.8	250.8	250.7	251.4	251.6	252.5
14.5°	250.1	249.9	250.2	250.6	251.0	251.8
15°	249.4	249.4	249.4	250.1	250.2	251.2
15.5°	248.6	248.6	248.8	249.3	249.8	250.5
16°	248.0	248.0	248.0	248.5	248.9	249.8
16.5°	247.2	247.1	247.2	247.8	248.2	249.2
17°	246.5	246.4	246.3	247.1	247.3	248.3
17.5°	245.7	245.4	245.7	246.1	246.7	247.5
18°	244.9	244.8	244.9	245.5	245.8	246.9
18.5°	243.9	243.8	243.9	244.7	244.9	245.9
19°	243.1	243.1	243.0	243.9	244.1	245.1
19.5°	242.0	242.1	242.2	242.8	243.3	244.5
20°	241.3	241.3	241.2	242.0	242.4	243.4
20.5°	240.3	240.3	240.4	240.9	241.5	242.5
21°	239.4	239.4	239.4	240.1	240.7	241.5



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	236.5	236.4	236.4	237.1	237.7	238.9
23°	235.3	235.4	235.4	236.2	236.8	237.8
23.5°	234.3	234.3	234.4	235.2	235.8	236.7
24°	233.2	233.3	233.4	234.1	234.6	235.8
24.5°	232.2	232.3	232.2	232.9	233.6	234.8
25°	231.2	231.2	231.0	232.0	232.5	233.7
25.5°	229.9	230.0	230.0	230.8	231.6	232.6
26°	228.7	228.9	228.8	229.6	230.9	231.5
26.5°	227.7	227.9	227.9	228.4	229.2	230.3
27°	226.5	226.8	226.7	227.5	228.2	229.2
27.5°	225.3	225.5	225.5	226.3	227.1	228.1
28°	224.1	224.3	224.3	225.1	225.9	227.1
28.5°	222.8	223.2	223.2	224.0	224.8	225.8
29°	221.7	221.9	221.8	222.7	223.6	224.7
29.5°	220.3	220.6	220.5	221.5	222.4	223.6
30°	219.0	219.4	219.3	220.2	221.1	222.4
30.5°	217.8	218.0	218.0	218.8	219.9	221.1
31°	216.5	216.7	216.6	217.6	218.5	219.9
31.5°	215.1	215.4	215.3	216.1	217.2	218.5
32°	213.9	214.0	213.9	214.9	215.9	217.2
32.5°	212.4	212.6	212.6	213.5	214.6	215.9
33°	211.0	211.2	211.1	212.1	213.1	214.7
33.5°	209.7	209.7	209.7	210.7	211.9	213.2
34°	208.2	208.4	208.4	209.3	210.6	211.9
34.5°	206.8	206.9	206.9	207.8	209.1	210.5
35°	205.3	205.5	205.4	206.4	207.6	209.1
35.5°	203.7	204.0	203.9	205.0	206.1	207.7
36°	202.3	202.5	202.3	203.5	204.6	206.2
36.5°	200.7	200.9	200.9	202.1	203.2	204.7
37°	199.2	199.5	199.4	200.5	201.6	203.3
37.5°	197.6	197.8	197.9	199.0	200.0	201.7
38°	196.1	196.2	196.2	197.5	198.4	200.3
38.5°	194.4	194.6	194.7	195.9	197.0	198.7
39°	193.0	193.2	193.3	194.4	195.5	197.2
39.5°	191.4	191.6	191.7	192.8	193.9	195.6
40°	189.7	190.0	190.0	191.2	192.4	194.0
40.5°	188.1	188.3	188.4	189.6	190.8	192.5
41°	186.4	186.7	186.7	187.9	189.1	191.0
41.5°	184.8	185.0	185.1	186.3	187.6	189.3
42°	183.1	183.4	183.4	184.7	185.8	187.7
42.5°	181.3	181.6	181.7	182.9	184.2	186.1
43°	179.7	179.9	180.0	181.2	182.4	184.4
43.5°	178.0	178.1	178.3	179.5	180.9	182.7





TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	172.7	172.8	172.9	174.3	175.6	177.6
45.5°	170.8	171.1	171.2	172.4	173.8	175.9
46°	169.1	169.3	169.3	170.6	172.1	174.0
46.5°	167.3	167.5	167.6	168.8	170.3	172.3
47°	165.4	165.6	165.8	167.1	168.5	170.5
47.5°	163.5	163.7	163.9	165.1	166.8	168.6
48°	161.7	161.9	162.0	163.3	164.9	166.9
48.5°	159.8	160.0	160.1	161.4	163.1	165.1
49°	158.1	158.3	158.5	159.6	161.2	163.3
49.5°	156.2	156.4	156.6	157.9	159.5	161.5
50°	154.3	154.4	154.7	155.9	157.7	159.6
50.5°	152.4	152.5	152.8	154.0	155.8	157.7
51°	150.5	150.5	150.8	152.1	153.9	155.9
51.5°	148.5	148.5	148.9	150.2	152.0	154.0
52°	146.6	146.6	147.0	148.2	150.0	152.1
52.5°	144.6	144.7	145.0	146.3	148.1	150.1
53°	142.7	142.7	143.0	144.3	146.2	148.2
53.5°	140.8	140.7	141.1	142.4	144.2	146.3
54°	138.7	138.7	139.1	140.4	142.3	144.4
54.5°	136.7	136.7	137.1	138.3	140.3	142.5
55°	134.7	134.7	135.0	136.3	138.3	140.5
55.5°	132.8	132.6	133.1	134.3	136.1	138.3
56°	130.7	130.6	130.9	132.3	134.2	136.4
56.5°	128.7	128.5	129.0	130.3	132.2	134.4
57°	126.6	126.4	126.9	128.2	130.1	132.4
57.5°	124.6	124.3	125.0	126.1	128.1	130.2
58°	122.5	122.3	122.8	124.1	126.1	128.3
58.5°	120.5	120.3	120.8	122.1	124.1	126.1
59°	118.4	118.2	118.6	120.0	122.0	124.2
59.5°	116.3	116.1	116.6	117.9	119.8	122.0
60°	114.3	114.0	114.3	115.8	117.7	119.9
60.5°	112.1	111.8	112.4	113.7	115.6	117.8
61°	110.0	109.7	110.2	111.5	113.4	115.7
61.5°	107.9	107.7	108.1	109.4	111.4	113.5
62°	105.8	105.5	105.9	107.3	109.2	111.4
62.5°	103.6	103.2	103.8	105.1	107.0	109.2
63°	101.5	101.1	101.6	103.0	104.8	107.1
63.5°	99.2	98.9	99.4	100.8	102.8	104.9
64°	97.2	96.9	97.3	98.7	100.5	102.8
64.5°	95.0	94.7	95.2	96.6	98.4	100.7
65°	92.8	92.5	92.9	94.4	96.2	98.5
65.5°	90.8	90.5	90.9	92.1	94.2	96.3
66°	88.6	88.3	88.7	90.3	91.9	94.2



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	82.1	81.7	82.1	83.7	85.8	87.9
68°	79.9	79.6	80.0	81.6	83.6	85.8
68.5°	77.8	77.4	77.9	79.4	81.5	83.6
69°	75.7	75.3	75.7	77.3	79.3	81.5
69.5°	73.5	73.0	73.5	75.0	77.2	79.3
70°	71.4	70.9	71.4	72.9	75.1	77.3
70.5°	69.3	68.8	69.2	70.7	73.0	75.0
71°	67.2	66.7	67.0	68.6	70.8	73.0
71.5°	64.9	64.4	64.9	66.4	68.8	70.8
72°	62.8	62.4	62.7	64.3	66.5	68.7
72.5°	60.7	60.2	60.6	62.2	64.4	66.5
73°	58.6	58.1	58.5	60.1	62.2	64.4
73.5°	56.5	56.0	56.5	57.9	60.1	62.2
74°	54.4	53.9	54.4	56.0	57.9	60.1
74.5°	52.3	51.7	52.4	53.8	56.0	58.0
75°	50.2	49.7	50.2	51.7	53.8	56.0
75.5°	48.0	47.5	48.2	49.6	51.8	53.9
76°	46.1	45.4	46.1	47.6	49.6	51.8
76.5°	44.0	43.2	44.0	45.5	47.5	49.7
77°	41.9	41.2	42.0	43.4	45.4	47.6
77.5°	40.0	39.4	40.0	41.4	43.3	45.5
78°	38.0	37.2	37.9	39.6	41.3	43.5
78.5°	36.0	35.2	35.9	37.5	39.3	41.5
79°	34.0	33.2	34.0	35.5	37.3	39.6
79.5°	32.1	31.3	32.0	33.5	35.5	37.5
80°	30.2	29.3	30.1	31.5	33.5	35.6
80.5°	28.2	27.4	28.2	29.6	31.6	33.6
81°	26.4	25.5	26.3	27.8	29.6	31.7
81.5°	24.5	23.7	24.5	25.9	27.7	29.8
82°	22.7	22.1	22.8	24.1	25.8	27.9
82.5°	21.1	20.2	21.0	22.4	24.2	26.1
83°	19.4	18.5	19.2	20.7	22.5	24.2
83.5°	17.6	16.7	17.5	18.9	20.7	22.5
84°	15.8	15.0	15.7	17.2	19.1	20.8
84.5°	14.1	13.4	14.1	15.5	17.2	19.0
85°	12.5	11.6	12.3	13.8	15.5	17.3
85.5°	10.9	10.0	10.7	12.2	13.9	15.6
86°	9.2	8.3	9.2	10.5	12.2	13.9
86.5°	7.7	6.8	7.5	9.0	10.6	12.2
87°	6.2	5.3	6.0	7.4	9.0	10.6
87.5°	4.8	3.9	4.6	5.9	7.4	9.1
88°	3.4	2.8	3.3	4.4	6.0	7.4
88.5°	2.0	1.5	2.0	3.0	4.5	6.0



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.6	0.5	0.6	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: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**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	0.7	0.5
122.5°	0.6	0.5	0.5	0.5	0.7	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	0.7
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	0.7
128°	0.6	0.5	0.5	0.5	0.6	0.7
128.5°	0.6	0.5	0.5	0.5	0.6	0.7
129°	0.6	0.5	0.5	0.5	0.6	0.7
129.5°	0.6	0.5	0.5	0.5	0.7	0.7
130°	0.6	0.5	0.5	0.5	0.7	0.7
130.5°	0.6	0.5	0.5	0.5	0.7	0.7
131°	0.6	0.5	0.5	0.5	0.7	0.7
131.5°	0.6	0.5	0.5	0.5	0.7	0.7
132°	0.6	0.5	0.5	0.5	0.7	0.7
132.5°	0.6	0.5	0.5	0.5	0.7	0.7
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: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.1	0.9	1.1	1.1	1.1	1.1
158°	1.1	0.9	1.1	1.1	1.1	1.1
158.5°	1.0	0.9	1.1	1.1	1.1	1.2
159°	1.0	0.9	1.1	1.1	1.1	1.2
159.5°	1.1	0.9	1.1	1.1	1.1	1.2
160°	1.1	0.9	1.1	1.1	1.1	1.3
160.5°	1.1	0.9	1.1	1.1	1.1	1.3
161°	1.1	1.0	1.1	1.1	1.1	1.2
161.5°	1.1	1.0	1.1	1.1	1.1	1.2
162°	1.1	1.0	1.1	1.1	1.1	1.2
162.5°	1.1	1.1	1.1	1.1	1.1	1.2
163°	1.1	1.1	1.1	1.1	1.1	1.2
163.5°	1.1	1.0	1.1	1.1	1.1	1.2
164°	1.1	1.0	1.1	1.1	1.1	1.2
164.5°	1.1	1.0	1.1	1.1	1.1	1.2
165°	1.1	1.1	1.1	1.1	1.1	1.2
165.5°	1.1	1.1	1.1	1.1	1.1	1.2
166°	1.2	1.1	1.1	1.1	1.1	1.2
166.5°	1.2	1.1	1.1	1.2	1.1	1.2
167°	1.2	1.1	1.1	1.2	1.1	1.2
167.5°	1.2	1.1	1.2	1.1	1.0	1.2
168°	1.3	1.1	1.1	1.1	1.0	1.2
168.5°	1.3	1.1	1.1	1.1	1.0	1.2
169°	1.2	1.1	1.3	1.1	1.0	1.2
169.5°	1.2	1.1	1.3	1.1	1.0	1.2
170°	1.2	1.1	1.2	1.1	1.0	1.2
170.5°	1.2	1.1	1.2	1.1	1.0	1.2
171°	1.2	1.1	1.2	1.1	1.0	1.2
171.5°	1.2	1.1	1.2	1.1	1.0	1.2
172°	1.2	1.1	1.2	1.1	1.0	1.2
172.5°	1.2	1.1	1.2	1.1	1.0	1.2
173°	1.2	1.1	1.2	1.1	1.0	1.2
173.5°	1.2	1.1	1.2	1.1	1.0	1.2
174°	1.2	1.1	1.2	1.1	1.0	1.2
174.5°	1.2	1.1	1.2	1.1	1.0	1.2
175°	1.2	1.1	1.2	1.1	1.0	1.2
175.5°	1.2	1.1	1.2	1.1	1.0	1.2
176°	1.2	1.1	1.2	1.1	1.1	1.2
176.5°	1.2	1.1	1.2	1.1	1.1	1.2
177°	1.2	1.1	1.2	1.1	1.1	1.2
177.5°	1.2	1.1	1.2	1.1	1.1	1.2
178°	1.2	1.1	1.2	1.1	1.1	1.2
178.5°	1.2	1.1	1.2	1.1	1.1	1.2



TEST NUMBER: P417449

CATALOG NUMBER: SMD6S69SWH - 3500K

**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°	240.7	240.9	241.2	241.4	241.8	241.5	240.8	240.2	239.8	239.1	238.6
22°	239.8	240.1	240.3	240.5	240.8	240.4	239.8	239.3	238.8	238.0	237.5



44°	181.0	181.6	181.7	182.0	182.8	181.8	180.9	180.0	179.5	177.7	176.6
44.5°	179.3	179.8	180.2	180.4	181.2	180.2	179.1	178.2	177.6	176.0	174.8



66.5°	92.0	93.0	93.5	93.6	94.9	93.5	92.5	91.4	90.7	88.8	87.1
67°	90.1	91.1	91.4	91.4	92.7	91.6	90.6	89.5	88.5	86.7	85.0



89°	4.8	5.4	5.5	5.4	5.8	5.6	5.1	4.7	4.0	2.8	1.4
89.5°	2.2	3.9	3.9	3.9	4.6	4.1	3.8	3.2	2.3	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	0.7	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.6
134.5°	0.8	0.9	0.5	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.6



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



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





21.5°	238.4	238.3	238.4	239.1	239.6	240.7
22°	237.4	237.5	237.4	238.1	238.6	239.8



44°	176.1	176.4	176.5	177.8	179.1	181.0
44.5°	174.4	174.7	174.7	176.0	177.4	179.3



66.5°	86.4	86.1	86.7	88.1	90.0	92.0
67°	84.3	83.9	84.4	86.0	88.0	90.1





89°	0.8	0.8	1.0	1.5	3.1	4.8
89.5°	0.4	0.6	0.6	0.7	1.3	2.2



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°	0.7	0.5	0.6	0.5	0.7	0.8



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



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



(END OF REPORT)