

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: P417451

Luminaire Tested: **SMD6S69SWH - 5000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417451
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 - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 798.5 lumens
Efficiency: N/A
Efficacy: 86.8 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

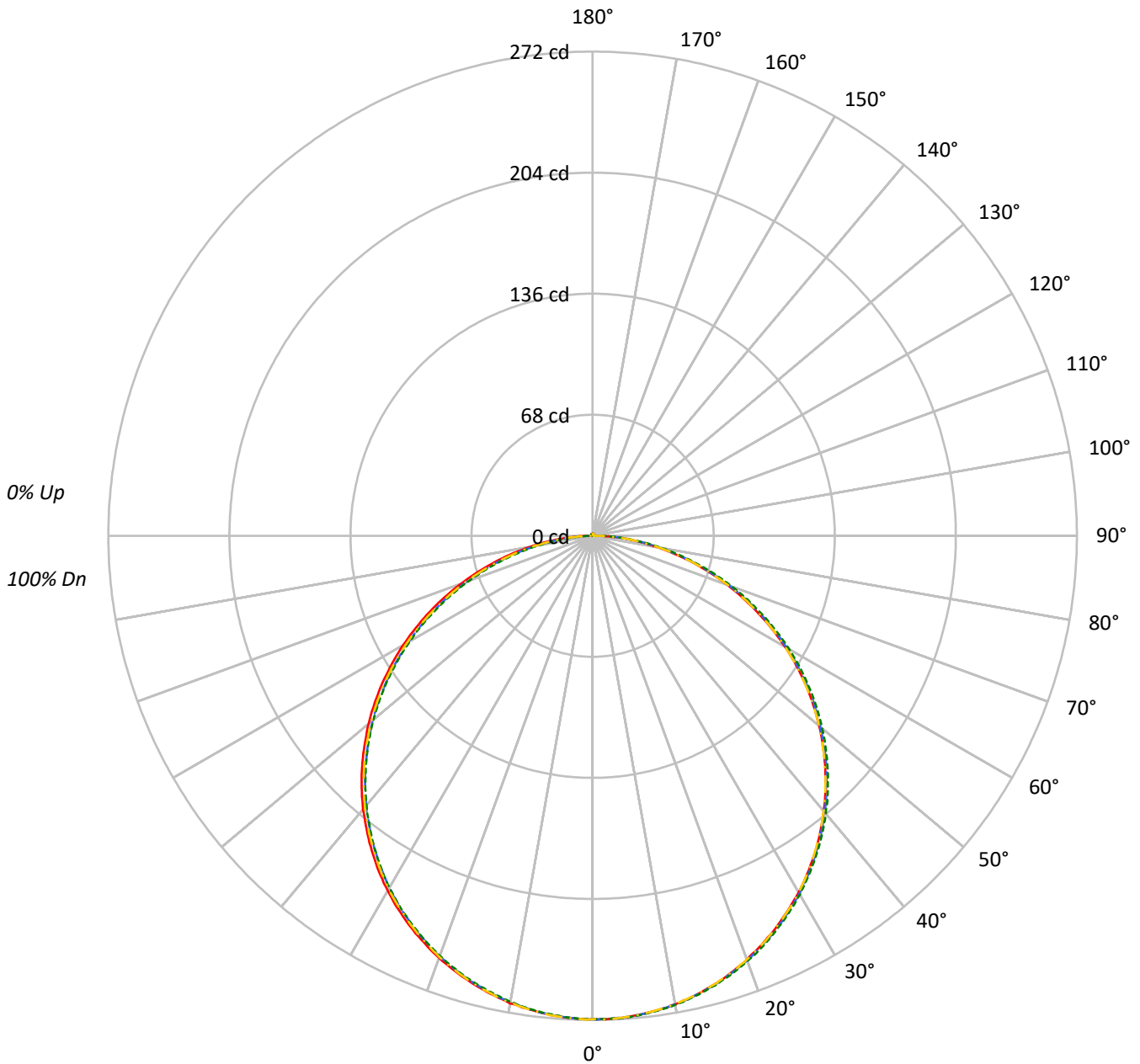
Input Watts (W): 9.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100	100	100		
	1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83	83	83	83	83	83		
	2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68	68	68	68	68	68		
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57	57	57	57	57	57		
	4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49	49	49	49	49	49		
	5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42	42	42	42		
	6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37	37	37	37	37	37		
	7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32	32	32	32	32	32		
	8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29	29	29	29	29	29		
	9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26	26	26	26	26	26		
	10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23	23	23	23	23	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11694	11694	11694	11694
5°	11695	11704	11682	11665
10°	11682	11699	11664	11625
15°	11652	11679	11607	11567
20°	11606	11647	11560	11505
25°	11554	11611	11511	11430
30°	11504	11574	11445	11350
35°	11437	11506	11358	11243
40°	11348	11449	11275	11112
45°	11252	11368	11149	10954
50°	11126	11266	11005	10764
55°	10975	11147	10817	10517
60°	10747	10979	10583	10213
65°	10443	10738	10280	9811
70°	10121	10474	9907	9290
75°	9682	10098	9432	8601
80°	9174	9720	8827	7562
85°	8892	9781	8398	5978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	3.2
10°-20°	73.6	9.2
20°-30°	111.7	14.0
30°-40°	135.3	16.9
40°-50°	141.2	17.7
50°-60°	128.9	16.1
60°-70°	99.8	12.5
70°-80°	59.7	7.5
80°-90°	18.6	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°	211.0	26.4
0°-40°	346.3	43.4
0°-60°	616.4	77.2
0°-90°	794.6	99.5
90°-120°	1.5	0.2
90°-150°	3.1	0.4
90°-180°	4.0	0.5
0°-180°	798.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	272	272	272	272	272	
5°	271	271	270	270	271	26
15°	261	262	260	260	261	74
25°	243	244	242	241	243	112
35°	218	219	216	214	218	136
45°	185	187	183	180	185	143
55°	146	148	144	140	146	131
65°	102	105	101	96	102	101
75°	58	61	57	52	58	62
85°	18	20	17	12	18	19
90°	1	3	0	1	1	2
95°	1	0	0	1	1	0
105°	1	0	0	1	1	1
115°	1	0	1	1	1	1
125°	1	0	1	1	1	1
135°	1	0	1	1	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°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6
0.5°	271.7	271.7	271.8	271.8	271.6	271.7	271.6	271.7	271.7	271.4	271.9
1°	271.6	271.7	271.6	271.7	271.6	271.7	271.8	271.5	271.5	271.5	271.6
1.5°	271.7	271.5	271.7	271.6	271.6	271.6	271.7	271.6	271.6	271.4	271.4
2°	271.5	271.6	271.6	271.6	271.5	271.6	271.7	271.5	271.4	271.4	271.4
2.5°	271.5	271.5	271.5	271.6	271.3	271.5	271.6	271.3	271.2	271.1	271.2
3°	271.4	271.3	271.1	271.4	271.7	271.6	271.3	271.2	271.1	271.0	271.0
3.5°	271.2	271.1	271.4	271.3	271.4	271.3	271.3	271.0	270.9	270.9	270.8
4°	271.1	271.0	271.0	271.1	271.2	271.1	271.0	270.8	270.5	270.7	270.5
4.5°	270.8	270.7	270.8	270.9	271.1	270.9	270.9	270.8	270.5	270.3	270.5
5°	270.6	270.5	270.6	270.7	270.8	270.6	270.6	270.5	270.3	270.2	270.1
5.5°	270.3	270.2	270.5	270.7	270.6	270.5	270.4	270.3	269.9	269.7	269.8
6°	270.1	270.1	270.2	270.3	270.3	270.4	270.1	270.0	269.6	269.5	269.5
6.5°	269.8	269.7	269.9	270.1	270.1	270.0	269.8	269.7	269.3	269.1	269.3
7°	269.5	269.4	269.6	269.7	269.8	269.6	269.5	269.3	268.9	268.9	268.7
7.5°	269.2	269.0	269.4	269.5	269.4	269.4	269.1	269.1	268.6	268.7	268.5
8°	268.8	268.7	268.9	269.1	269.1	269.0	268.7	268.6	268.1	268.1	268.0
8.5°	268.4	268.4	268.6	268.7	268.8	268.5	268.5	268.3	267.9	267.6	267.5
9°	268.3	268.0	268.1	268.2	268.4	268.3	268.0	267.8	267.3	267.3	267.0
9.5°	267.5	267.5	267.7	267.8	268.1	268.3	267.6	267.5	266.9	266.7	266.6
10°	267.2	267.1	267.2	267.3	267.6	267.4	267.1	266.9	266.8	266.2	266.1
10.5°	266.7	266.7	266.9	267.0	267.1	267.0	266.6	266.4	266.0	265.8	265.5
11°	266.1	266.2	266.2	266.4	266.7	266.5	266.1	265.9	265.4	265.1	265.1
11.5°	265.8	265.6	265.9	265.9	266.1	266.0	265.7	265.3	264.9	264.6	264.4
12°	265.1	265.0	265.2	265.4	265.6	265.4	265.0	264.8	264.2	264.1	263.9
12.5°	264.7	264.5	264.7	264.8	265.0	264.9	264.6	264.1	263.7	263.2	263.2
13°	264.0	263.9	264.1	264.1	264.5	264.4	263.9	263.4	263.1	262.7	262.5
13.5°	263.4	263.3	263.5	263.7	263.9	263.8	263.3	262.9	262.4	262.0	262.0
14°	262.7	262.8	262.9	263.0	263.3	263.1	262.7	262.3	261.8	261.4	261.2
14.5°	262.0	262.1	262.3	262.4	262.5	262.5	262.0	261.7	261.1	260.6	260.5
15°	261.4	261.5	261.6	261.6	262.0	261.8	261.4	260.8	260.4	259.9	259.8
15.5°	260.7	260.8	261.1	261.0	261.7	261.2	260.7	260.2	259.6	259.3	259.1
16°	259.9	260.1	260.1	260.3	260.5	260.4	259.8	259.4	258.9	258.5	258.3
16.5°	259.3	259.2	259.4	259.5	259.9	259.7	259.1	258.6	258.2	257.7	257.5
17°	258.4	258.5	258.7	258.9	259.3	259.0	258.4	258.0	257.4	257.0	256.6
17.5°	257.6	257.7	258.0	258.0	258.5	258.2	257.5	257.1	256.6	256.2	255.9
18°	256.9	256.9	257.1	257.4	257.6	257.4	256.7	256.3	255.7	255.3	254.9
18.5°	255.9	256.1	256.4	256.6	256.8	256.6	256.1	255.5	254.9	254.4	254.1
19°	255.1	255.3	255.5	255.6	255.9	255.6	254.9	254.6	254.1	253.6	253.1
19.5°	254.4	254.6	254.8	254.7	255.1	254.8	254.3	253.7	253.3	252.7	252.2
20°	253.3	253.7	253.8	253.9	254.2	253.9	253.2	252.7	252.3	251.7	251.3
20.5°	252.3	252.6	252.9	253.0	253.4	253.1	252.6	252.0	251.4	250.8	250.4
21°	251.3	251.7	251.9	252.1	252.6	252.2	251.5	250.9	250.4	249.8	249.3



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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°	248.5	248.8	249.1	249.2	249.7	249.3	248.5	248.0	247.3	246.7	246.3
23°	247.4	247.9	247.9	248.2	248.6	248.4	247.6	246.8	246.5	245.6	245.2
23.5°	246.3	246.8	247.1	247.2	247.5	247.3	246.6	246.0	245.5	244.4	244.2
24°	245.4	245.7	246.0	246.2	246.5	246.3	245.4	244.8	244.5	243.5	243.1
24.5°	244.3	244.6	245.0	245.2	245.5	245.2	244.3	243.8	243.3	242.3	241.9
25°	243.2	243.5	243.9	244.0	244.4	244.1	243.2	243.1	242.3	241.1	240.7
25.5°	242.0	242.4	242.8	243.0	243.2	243.0	242.1	241.5	241.2	240.0	239.6
26°	240.9	241.5	241.7	241.9	242.3	241.9	241.1	240.5	239.9	238.9	238.3
26.5°	239.7	240.2	240.5	240.7	241.1	240.7	239.9	239.4	238.8	237.7	237.3
27°	238.5	239.0	239.3	239.5	239.9	239.4	238.6	238.0	237.6	236.6	236.1
27.5°	237.4	237.8	238.2	238.5	238.7	238.4	237.6	237.0	236.5	235.4	234.8
28°	236.3	236.8	237.0	237.3	237.5	237.2	236.4	235.7	235.3	234.1	233.5
28.5°	234.9	235.6	236.0	236.1	236.5	236.2	235.2	234.7	234.1	232.8	232.2
29°	233.8	234.4	234.6	234.9	235.2	234.9	233.9	233.3	232.8	231.6	231.1
29.5°	232.6	233.3	233.4	233.6	233.9	233.7	232.7	232.1	231.5	230.3	229.5
30°	231.4	231.9	232.2	232.3	232.8	232.3	231.4	230.7	230.2	228.9	228.2
30.5°	230.1	230.6	230.9	231.0	231.4	230.9	230.1	229.5	228.9	227.6	226.9
31°	228.8	229.2	229.5	229.6	230.1	229.7	228.7	228.1	227.7	226.3	225.5
31.5°	227.4	228.2	228.2	228.3	228.7	228.4	227.4	226.7	226.1	224.9	224.2
32°	226.0	226.7	226.8	226.9	227.3	227.1	226.0	225.5	224.8	223.5	222.7
32.5°	224.7	225.1	225.4	225.7	226.0	225.6	224.6	224.1	223.6	222.1	221.3
33°	223.4	224.0	224.0	224.2	224.7	224.2	223.2	222.4	222.1	220.6	219.8
33.5°	221.8	222.4	222.7	222.9	223.2	222.8	221.7	221.0	220.6	219.4	218.4
34°	220.5	221.1	221.2	221.5	221.9	221.4	220.3	219.6	219.1	217.8	216.8
34.5°	219.0	219.5	219.9	220.0	220.5	219.9	218.9	218.3	217.6	216.2	215.4
35°	217.6	218.2	218.3	218.6	218.9	218.4	217.4	216.7	216.1	214.7	213.9
35.5°	216.1	216.9	216.8	217.1	217.6	216.9	215.9	215.3	214.6	213.2	212.4
36°	214.5	215.2	215.3	215.7	216.1	215.4	214.4	213.7	213.2	211.6	210.8
36.5°	213.0	213.5	213.9	214.1	214.6	213.9	212.8	212.2	211.6	210.1	209.2
37°	211.6	211.9	212.3	212.6	213.1	212.4	211.4	210.6	210.0	208.6	207.5
37.5°	209.9	210.3	210.8	211.0	211.6	210.8	209.8	209.1	208.4	207.0	206.0
38°	208.4	208.9	209.1	209.5	210.1	209.3	208.2	207.4	206.9	205.4	204.3
38.5°	206.7	207.3	207.6	207.9	208.5	207.6	206.7	205.7	205.2	203.7	202.7
39°	205.2	205.8	206.0	206.4	206.9	206.1	205.1	204.2	203.6	202.1	201.1
39.5°	203.5	204.4	204.4	204.7	205.4	204.4	203.4	202.6	202.1	200.7	199.6
40°	201.9	202.5	202.7	203.0	203.7	202.9	201.9	201.1	200.6	198.9	197.8
40.5°	200.3	201.0	201.2	201.5	202.0	201.2	200.3	199.4	198.8	197.2	196.1
41°	198.8	199.3	199.4	199.7	200.6	199.7	198.5	197.6	197.1	195.4	194.4
41.5°	197.0	197.6	197.9	198.2	199.0	197.9	196.8	196.0	195.5	193.8	192.8
42°	195.3	196.0	196.1	196.5	197.2	196.3	195.1	194.3	193.6	192.0	190.8
42.5°	193.6	194.2	194.3	194.7	195.5	194.4	193.4	192.5	192.0	190.3	189.2
43°	191.9	192.4	192.6	193.0	193.8	192.7	191.6	190.7	190.2	188.5	187.4
43.5°	190.1	190.7	190.9	191.2	191.9	190.9	190.0	189.1	188.5	186.6	185.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	184.8	185.4	185.6	185.9	186.7	185.7	184.5	183.6	183.1	181.4	180.0
45.5°	183.0	183.7	183.8	184.2	185.0	183.8	182.9	181.9	181.3	179.5	178.2
46°	181.1	181.7	182.1	182.3	183.2	182.0	180.9	180.0	179.3	177.6	176.3
46.5°	179.3	179.9	180.2	180.5	181.4	180.1	179.1	178.2	177.6	175.8	174.5
47°	177.5	178.1	178.4	178.5	179.5	178.3	177.3	176.3	175.6	173.9	172.7
47.5°	175.5	176.2	176.5	176.7	177.7	176.6	175.3	174.4	173.8	172.0	170.8
48°	173.6	174.6	174.6	174.9	175.8	174.5	173.4	172.5	171.7	170.1	168.7
48.5°	171.8	172.4	172.7	172.9	174.0	172.7	171.6	170.7	169.9	168.1	166.8
49°	170.0	170.6	170.8	170.9	172.1	170.8	169.6	168.8	168.1	166.3	165.1
49.5°	168.0	168.5	168.9	169.1	170.2	169.0	167.8	166.9	166.2	164.5	163.1
50°	166.1	166.6	166.9	167.1	168.2	167.0	165.9	165.1	164.3	162.4	161.1
50.5°	164.1	164.8	165.1	165.3	166.4	165.2	164.0	163.2	162.3	160.4	159.1
51°	162.2	162.9	163.2	163.4	164.5	163.2	162.0	161.2	160.3	158.5	157.2
51.5°	160.3	160.9	161.3	161.5	162.6	161.3	160.2	159.2	158.4	156.5	155.2
52°	158.3	158.9	159.2	159.4	160.7	159.3	158.1	157.3	156.3	154.6	153.1
52.5°	156.2	157.0	157.3	157.5	158.7	157.3	156.1	155.3	154.4	152.5	151.2
53°	154.3	154.9	155.3	155.4	156.6	155.3	154.1	153.2	152.3	150.5	149.1
53.5°	152.3	153.4	153.2	153.5	154.7	153.3	152.1	151.3	150.2	148.6	147.0
54°	150.3	150.9	151.2	151.4	152.6	151.2	150.0	149.2	148.2	146.4	144.9
54.5°	148.3	148.8	149.1	149.3	150.6	149.2	148.1	147.1	146.1	144.4	142.9
55°	146.2	146.8	147.1	147.3	148.5	147.1	145.9	145.1	144.1	142.2	140.9
55.5°	143.9	144.6	145.1	145.3	146.5	145.1	143.9	143.0	142.0	140.2	138.6
56°	142.0	142.6	143.0	143.2	144.4	143.1	141.8	140.9	139.8	138.0	136.5
56.5°	139.9	140.4	140.9	141.1	142.3	140.9	139.6	138.9	137.7	135.9	134.5
57°	137.7	138.4	138.7	139.0	140.2	138.8	137.6	136.7	135.5	133.7	132.3
57.5°	135.5	136.2	136.6	136.9	138.2	136.7	135.4	134.6	133.5	131.7	130.2
58°	133.5	134.1	134.5	134.8	136.0	134.7	133.5	132.5	131.4	129.5	128.1
58.5°	131.2	131.9	132.5	132.7	134.0	132.5	131.3	130.4	129.3	127.5	125.8
59°	129.2	129.9	130.3	130.5	131.7	130.3	129.2	128.3	127.2	125.4	123.7
59.5°	126.9	127.8	128.2	128.5	129.8	128.3	127.0	126.1	125.1	123.2	121.6
60°	124.8	125.7	126.0	126.2	127.5	126.1	125.0	123.9	122.9	121.0	119.4
60.5°	122.6	123.4	123.8	124.1	125.3	124.0	122.8	121.7	120.6	118.8	117.2
61°	120.4	121.3	121.6	121.9	123.1	121.8	120.6	119.5	118.5	116.5	115.0
61.5°	118.1	119.1	119.4	119.7	120.9	119.6	118.5	117.3	116.4	114.5	112.8
62°	115.9	117.0	117.3	117.5	118.7	117.5	116.3	115.2	114.1	112.2	110.6
62.5°	113.7	114.7	115.1	115.3	116.5	115.2	114.1	112.9	112.0	110.0	108.3
63°	111.5	112.6	112.9	113.1	114.3	113.0	111.9	110.6	109.7	107.7	106.2
63.5°	109.1	110.3	110.7	110.9	112.1	110.8	109.6	108.2	107.6	105.5	103.9
64°	107.0	108.0	108.5	108.6	109.9	108.5	107.4	106.1	105.3	103.4	101.7
64.5°	104.8	105.8	106.3	106.5	107.7	106.2	105.3	104.0	103.1	101.1	99.4
65°	102.5	103.6	104.1	104.2	105.4	104.1	103.0	101.7	100.9	98.9	97.2
65.5°	100.2	101.2	101.9	101.9	103.2	101.9	100.7	99.4	98.7	96.7	95.0
66°	98.0	99.0	99.5	99.6	100.9	99.6	98.5	97.2	96.4	94.6	92.9



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	91.4	92.4	92.9	93.1	94.4	93.0	91.9	90.8	89.9	88.0	86.2
68°	89.3	90.3	90.6	90.8	92.2	90.9	89.7	88.6	87.6	85.7	84.0
68.5°	87.0	88.0	88.4	88.6	89.9	88.6	87.4	86.5	85.4	83.4	81.8
69°	84.8	85.7	86.1	86.3	87.7	86.3	85.3	84.3	83.2	81.2	79.5
69.5°	82.5	83.5	83.9	84.1	85.4	84.0	83.0	82.1	80.9	79.0	77.4
70°	80.4	81.4	81.6	81.9	83.2	81.7	80.8	79.8	78.7	76.7	75.0
70.5°	78.1	79.0	79.3	79.6	80.9	79.5	78.5	77.7	76.5	74.6	72.9
71°	76.0	76.9	77.1	77.5	78.7	77.4	76.3	75.6	74.2	72.2	70.5
71.5°	73.7	74.6	74.8	75.2	76.5	75.0	74.0	73.3	72.0	70.1	68.4
72°	71.5	72.3	72.7	72.9	74.0	72.9	71.9	71.0	69.8	67.8	66.1
72.5°	69.2	70.1	70.4	70.7	72.1	70.5	69.6	68.8	67.6	65.7	64.0
73°	67.0	67.9	68.2	68.4	69.7	68.3	67.4	66.6	65.2	63.3	61.8
73.5°	64.7	65.7	66.0	66.3	67.3	66.2	65.2	64.3	63.1	61.0	59.5
74°	62.6	63.5	63.8	64.0	65.1	63.9	63.0	62.1	61.0	58.9	57.5
74.5°	60.4	61.1	61.6	61.8	62.9	61.8	60.8	59.9	58.8	57.0	55.2
75°	58.2	59.2	59.5	59.7	60.7	59.6	58.7	57.8	56.7	54.7	53.1
75.5°	56.0	57.0	57.3	57.5	58.6	57.5	56.5	55.6	54.6	52.6	50.9
76°	53.9	54.7	55.2	55.2	56.1	55.4	54.4	53.5	52.4	50.4	48.8
76.5°	51.7	52.6	53.0	53.0	54.3	53.1	52.1	51.3	50.3	48.2	46.6
77°	49.5	50.5	50.8	50.9	52.0	51.0	50.1	49.1	48.1	46.2	44.6
77.5°	47.4	48.2	48.7	48.7	49.9	48.8	47.9	46.9	45.9	44.0	42.5
78°	45.2	46.3	46.5	46.5	47.5	46.7	45.8	44.8	43.9	42.0	40.4
78.5°	43.2	44.1	44.4	44.5	45.6	44.6	43.7	42.8	41.8	39.9	38.3
79°	41.2	41.9	42.3	42.3	43.4	42.4	41.6	40.8	39.7	37.8	36.3
79.5°	39.1	40.1	40.3	40.2	41.2	40.5	39.5	38.7	37.7	35.9	34.2
80°	37.0	37.9	38.2	38.2	39.2	38.3	37.5	36.6	35.6	33.8	32.4
80.5°	34.9	35.7	36.2	36.2	37.1	36.3	35.5	34.7	33.5	31.8	30.4
81°	32.9	33.8	34.2	34.1	35.0	34.3	33.5	32.7	31.7	29.9	28.3
81.5°	31.0	31.9	32.2	32.1	33.1	32.3	31.5	30.6	29.6	28.0	26.4
82°	29.0	29.8	30.2	30.2	31.1	30.2	29.6	28.7	27.8	26.0	24.5
82.5°	27.1	28.1	28.3	28.2	29.1	28.3	27.6	26.9	26.0	24.1	22.9
83°	25.2	26.0	26.3	26.3	27.1	26.4	25.7	25.0	24.2	22.6	21.0
83.5°	23.4	24.3	24.5	24.4	25.3	24.5	23.9	23.2	22.4	20.7	19.1
84°	21.7	22.5	22.8	22.7	23.4	22.8	22.2	21.4	20.6	18.9	17.5
84.5°	19.8	20.6	20.9	20.9	21.7	21.0	20.5	19.7	18.7	17.2	15.5
85°	18.0	18.7	19.2	19.0	19.8	19.2	18.6	17.9	17.0	15.4	13.9
85.5°	16.2	16.9	17.4	17.2	18.0	17.4	16.9	16.1	15.3	13.7	12.3
86°	14.4	15.2	15.6	15.4	16.1	15.7	15.2	14.4	13.6	12.0	10.5
86.5°	12.7	13.6	13.8	13.8	14.3	13.9	13.4	12.7	11.8	10.3	8.8
87°	11.0	12.2	12.2	12.0	12.7	12.2	11.8	11.0	10.1	8.7	7.3
87.5°	9.4	10.2	10.5	10.4	11.0	10.5	10.1	9.4	8.6	7.1	5.7
88°	7.7	8.6	8.8	8.8	9.3	8.9	8.5	7.8	7.0	5.5	4.3
88.5°	6.3	7.0	7.2	7.2	7.7	7.4	6.9	6.3	5.5	4.2	2.9



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.0	2.1	2.6	2.6	3.1	2.8	2.5	1.7	0.5	0.4	0.2
90.5°	0.6	0.9	1.2	1.4	2.0	1.5	0.8	0.3	0.4	0.4	0.1
91°	0.6	0.6	0.6	0.7	0.6	0.4	0.5	0.3	0.4	0.3	0.1
91.5°	0.6	0.6	0.6	0.6	0.2	0.4	0.5	0.4	0.3	0.3	0.1
92°	0.6	0.6	0.6	0.6	0.1	0.5	0.4	0.3	0.3	0.3	0.1
92.5°	0.6	0.6	0.6	0.6	0.1	0.4	0.4	0.3	0.3	0.3	0.1
93°	0.6	0.6	0.6	0.6	0.1	0.4	0.4	0.3	0.3	0.3	0.1
93.5°	0.6	0.6	0.6	0.6	0.1	0.4	0.4	0.3	0.3	0.3	0.1
94°	0.6	0.5	0.6	0.6	0.2	0.4	0.4	0.3	0.3	0.3	0.1
94.5°	0.6	0.5	0.6	0.6	0.2	0.4	0.4	0.4	0.3	0.3	0.1
95°	0.6	0.5	0.6	0.6	0.0	0.4	0.4	0.4	0.3	0.3	0.1
95.5°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.3	0.3	0.1
96°	0.6	0.5	0.5	0.6	0.1	0.4	0.4	0.4	0.4	0.3	0.1
96.5°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.2
97°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.1
97.5°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.5	0.3	0.2
98°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.3
98.5°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.2
99°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.3
99.5°	0.6	0.5	0.5	0.6	0.0	0.4	0.4	0.4	0.4	0.3	0.3
100°	0.6	0.5	0.5	0.6	0.2	0.5	0.4	0.4	0.4	0.3	0.5
100.5°	0.6	0.5	0.5	0.6	0.1	0.5	0.4	0.4	0.4	0.3	0.2
101°	0.6	0.5	0.5	0.6	0.1	0.5	0.4	0.4	0.4	0.3	0.2
101.5°	0.6	0.5	0.5	0.6	0.1	0.5	0.4	0.4	0.4	0.3	0.1
102°	0.6	0.5	0.5	0.6	0.1	0.5	0.4	0.4	0.4	0.3	0.2
102.5°	0.6	0.5	0.5	0.6	0.1	0.5	0.5	0.4	0.4	0.3	0.3
103°	0.6	0.5	0.5	0.6	0.1	0.5	0.5	0.4	0.4	0.4	0.2
103.5°	0.6	0.5	0.5	0.6	0.1	0.5	0.6	0.4	0.4	0.3	0.2
104°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.5	0.4	0.3	0.2
104.5°	0.6	0.5	0.5	0.6	0.1	0.5	0.6	0.5	0.4	0.5	0.2
105°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.6	0.4	0.5	0.3
105.5°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.6	0.5	0.4	0.3
106°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.5	0.5	0.4	0.3
106.5°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.5	0.5	0.4	0.3
107°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.5	0.6	0.4	0.3
107.5°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.6	0.6	0.4	0.3
108°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.6	0.6	0.4	0.3
108.5°	0.6	0.5	0.5	0.6	0.1	0.6	0.6	0.6	0.6	0.4	0.7
109°	0.6	0.5	0.5	0.6	0.3	0.6	0.6	0.6	0.6	0.4	0.4
109.5°	0.6	0.5	0.5	0.6	0.3	0.6	0.6	0.6	0.6	0.5	0.4
110°	0.6	0.5	0.5	0.6	0.2	0.6	0.6	0.6	0.6	0.5	0.5
110.5°	0.6	0.5	0.5	0.6	0.2	0.6	0.6	0.6	0.6	0.5	0.5
111°	0.6	0.5	0.5	0.6	0.2	0.6	0.6	0.6	0.6	0.5	0.4



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.5	0.5	0.6	0.3	0.6	0.6	0.6	0.6	0.5	0.3
113°	0.6	0.5	0.5	0.6	0.3	0.6	0.6	0.6	0.6	0.5	0.3
113.5°	0.6	0.5	0.5	0.6	0.3	0.6	0.7	0.6	0.6	0.5	0.3
114°	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.5	0.3
114.5°	0.6	0.5	0.5	0.6	0.5	0.7	0.6	0.6	0.6	0.5	0.3
115°	0.6	0.5	0.5	0.6	0.4	0.7	0.6	0.6	0.6	0.5	0.3
115.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.5
116°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.4
116.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.4
117°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.3
117.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.7	0.5	0.3
118°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.3
118.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.3
119°	0.6	0.5	0.5	0.6	0.4	0.6	0.6	0.6	0.6	0.5	0.3
119.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.3
120°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.5	0.4
120.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.4	0.4
121°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.4	0.5
121.5°	0.6	0.5	0.5	0.6	0.4	0.6	0.7	0.6	0.6	0.4	0.5
122°	0.6	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.4	0.5
122.5°	0.6	0.5	0.5	0.6	0.4	0.7	0.7	0.6	0.6	0.5	0.5
123°	0.6	0.5	0.5	0.6	0.4	0.7	0.7	0.6	0.6	0.5	0.6
123.5°	0.6	0.5	0.5	0.6	0.5	0.7	0.7	0.6	0.6	0.7	0.5
124°	0.6	0.5	0.5	0.6	0.5	0.8	0.7	0.7	0.6	0.6	0.5
124.5°	0.6	0.5	0.5	0.6	0.5	0.7	0.7	0.7	0.6	0.6	0.5
125°	0.6	0.5	0.5	0.6	0.4	0.7	0.7	0.8	0.6	0.5	0.6
125.5°	0.7	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.6	0.5	0.6
126°	0.6	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.5	0.6
126.5°	0.6	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
127°	0.8	0.5	0.5	0.6	0.5	0.7	0.7	0.7	0.7	0.5	0.6
127.5°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
128°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
128.5°	0.7	0.5	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
129°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
129.5°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
130°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
130.5°	0.7	0.5	0.6	0.6	0.4	0.7	0.7	0.7	0.7	0.5	0.6
131°	0.7	0.5	0.6	0.6	0.4	0.7	0.8	0.7	0.7	0.5	0.6
131.5°	0.7	0.5	0.6	0.6	0.4	0.7	0.8	0.7	0.7	0.5	0.6
132°	0.7	0.6	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.6	0.6
132.5°	0.7	0.7	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.6	0.6
133°	0.8	0.7	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.6	0.6
133.5°	0.8	0.6	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.6	0.6



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

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	0.8	0.7	0.7	0.7	0.6
135.5°	0.8	0.8	0.6	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
136°	0.9	0.8	0.6	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
136.5°	0.9	0.8	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
137°	0.8	0.8	0.8	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
137.5°	0.8	0.8	0.8	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
138°	0.8	0.8	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
138.5°	0.8	0.9	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
139°	0.8	0.8	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
139.5°	0.8	0.8	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.6	0.6
140°	0.8	1.0	0.7	0.7	0.4	0.7	0.8	0.8	0.8	0.7	0.6
140.5°	0.8	1.0	0.8	0.7	0.4	0.8	0.8	0.8	0.8	0.7	0.6
141°	0.8	1.1	0.8	0.8	0.4	0.8	0.8	0.8	0.8	0.7	0.6
141.5°	0.8	1.1	0.8	0.7	0.4	0.8	0.8	0.8	0.8	0.7	0.6
142°	0.8	1.0	0.9	0.8	0.4	0.8	0.8	0.8	0.8	0.7	0.6
142.5°	0.8	1.0	0.9	0.8	0.4	0.8	0.8	0.8	0.8	0.7	0.6
143°	0.8	1.0	0.8	0.8	0.5	0.8	0.8	0.8	0.8	0.7	0.6
143.5°	0.8	1.2	0.8	0.9	0.5	0.8	0.8	0.8	0.8	0.8	0.6
144°	0.8	1.1	0.8	0.8	0.5	0.9	0.8	0.8	0.8	0.7	0.7
144.5°	0.8	1.1	0.8	0.8	0.4	0.9	0.8	0.9	0.8	0.7	0.7
145°	0.8	1.1	0.8	1.0	0.4	0.8	0.8	0.9	0.8	0.8	0.8
145.5°	0.8	1.1	0.8	1.0	0.4	0.8	0.8	0.8	0.8	0.8	0.7
146°	0.9	1.2	0.8	0.9	0.4	0.8	0.8	0.8	0.8	0.8	0.8
146.5°	1.0	1.1	0.8	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8
147°	1.0	1.1	0.8	0.9	0.6	0.8	0.9	0.8	0.9	0.8	0.8
147.5°	1.0	1.1	0.8	1.0	0.6	0.8	0.8	0.8	0.9	0.8	0.8
148°	1.0	1.0	0.8	1.0	0.6	1.0	0.8	0.8	0.9	0.8	0.8
148.5°	1.0	1.0	0.9	1.0	0.7	0.9	0.8	0.8	0.9	0.8	0.9
149°	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.8	1.0	0.8	0.9
149.5°	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.8	0.9	0.8	0.8
150°	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.8	1.0	0.8	0.8
150.5°	1.0	1.0	1.0	1.0	0.7	0.9	0.9	0.9	1.0	0.8	0.8
151°	1.1	1.0	1.0	1.0	0.8	0.9	0.9	0.9	1.0	0.8	0.8
151.5°	1.1	1.0	1.0	1.1	0.7	0.9	0.9	0.9	1.0	0.8	0.8
152°	1.2	1.0	1.0	1.1	0.7	0.9	0.9	0.9	1.0	0.9	0.8
152.5°	1.2	1.0	1.0	1.0	0.8	0.9	0.9	0.9	1.0	0.9	0.9
153°	1.1	1.0	1.0	1.0	0.8	0.9	0.9	0.9	1.0	1.0	0.9
153.5°	1.1	1.0	1.0	1.0	0.8	0.9	0.9	1.0	1.0	1.0	1.0
154°	1.1	1.0	1.0	1.0	0.8	0.9	0.9	1.0	1.0	0.9	0.9
154.5°	1.1	1.1	1.0	1.1	0.9	1.0	0.9	1.0	1.0	0.9	1.0
155°	1.1	1.1	1.1	1.1	0.8	1.0	1.0	1.0	1.0	0.9	0.9
155.5°	1.2	1.0	1.0	1.1	0.8	1.0	1.0	1.0	1.0	0.9	0.9
156°	1.2	1.2	1.0	1.1	0.8	1.0	1.0	1.0	1.0	0.9	0.9



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

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	1.1	1.2	0.7	1.1	1.0	1.0	1.0	1.0	0.9
158°	1.2	1.1	1.1	1.2	0.8	1.0	1.0	1.2	1.0	0.9	1.0
158.5°	1.2	1.1	1.1	1.2	0.8	1.0	1.0	1.2	1.0	1.1	0.9
159°	1.2	1.1	1.1	1.2	0.8	1.0	1.0	1.1	1.0	1.1	0.8
159.5°	1.2	1.1	1.1	1.2	0.8	1.0	1.1	1.1	1.0	1.0	0.8
160°	1.3	1.1	1.1	1.2	0.8	1.0	1.1	1.1	1.0	1.0	1.1
160.5°	1.3	1.1	1.1	1.2	0.8	1.0	1.2	1.1	1.0	1.0	1.1
161°	1.2	1.1	1.1	1.2	0.8	1.0	1.2	1.2	1.0	1.0	0.8
161.5°	1.2	1.1	1.2	1.2	0.8	1.0	1.1	1.2	1.0	1.0	0.9
162°	1.2	1.1	1.1	1.2	0.8	1.1	1.1	1.2	1.0	1.0	0.9
162.5°	1.2	1.1	1.1	1.2	0.8	1.1	1.2	1.2	1.1	1.0	1.1
163°	1.2	1.1	1.2	1.2	0.8	1.1	1.2	1.2	1.0	1.1	1.1
163.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.1	1.0
164°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.2	1.0
164.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.2	1.0
165°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.2	1.0
165.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.2	1.0
166°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.0	1.2	1.0
166.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.2	1.1
167°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.2	1.1
167.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.2	1.3
168°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.3	1.3
168.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.4	1.2
169°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.1	1.2	1.2
169.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
170°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
170.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
171°	1.2	1.1	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.1
171.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
172°	1.2	1.1	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.1
172.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
173°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
173.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
174°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
174.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
175°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
175.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
176°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
176.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
177°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
177.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
178°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1
178.5°	1.2	1.1	1.2	1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.1



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

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: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	271.6	271.6	271.6	271.6	271.6	271.6
0.5°	271.6	271.6	271.6	271.9	271.6	271.7
1°	271.6	271.5	271.5	271.7	271.5	271.6
1.5°	271.5	271.4	271.4	271.6	271.5	271.7
2°	271.3	271.3	271.2	271.5	271.4	271.5
2.5°	271.3	271.1	271.2	271.4	271.3	271.5
3°	270.9	271.0	270.9	271.2	271.1	271.4
3.5°	270.8	270.8	270.7	270.9	271.0	271.2
4°	270.5	270.4	270.5	270.8	270.7	271.1
4.5°	270.2	270.3	270.4	270.5	270.7	270.8
5°	270.0	269.9	270.1	270.4	270.2	270.6
5.5°	269.7	269.6	269.7	269.9	270.0	270.3
6°	269.6	269.3	269.3	269.7	269.5	270.1
6.5°	269.0	268.9	269.1	269.2	269.4	269.8
7°	268.7	268.6	268.6	269.1	268.9	269.5
7.5°	268.3	268.2	268.4	268.5	268.7	269.2
8°	267.8	267.8	267.8	268.3	268.1	268.8
8.5°	267.4	267.3	267.5	267.7	267.9	268.4
9°	267.0	266.9	266.9	267.4	267.3	268.3
9.5°	266.5	266.3	267.2	266.7	267.0	267.5
10°	265.9	265.9	265.9	266.3	266.4	267.2
10.5°	265.4	265.2	265.4	265.8	266.0	266.7
11°	264.7	264.7	264.9	265.3	265.3	266.1
11.5°	264.2	264.0	264.3	264.7	264.9	265.8
12°	263.7	263.5	263.7	264.2	264.3	265.1
12.5°	263.0	262.8	263.0	263.4	263.8	264.7
13°	262.4	262.3	262.3	262.9	263.0	264.0
13.5°	261.7	261.4	261.6	262.2	262.5	263.4
14°	261.0	261.0	260.8	261.6	261.9	262.7
14.5°	260.2	260.1	260.3	260.8	261.2	262.0
15°	259.5	259.5	259.5	260.3	260.4	261.4
15.5°	258.7	258.7	258.9	259.4	259.9	260.7
16°	258.1	258.0	258.1	258.6	259.0	259.9
16.5°	257.2	257.1	257.2	257.8	258.3	259.3
17°	256.5	256.4	256.3	257.1	257.3	258.4
17.5°	255.6	255.4	255.6	256.1	256.7	257.6
18°	254.8	254.7	254.8	255.4	255.8	256.9
18.5°	253.8	253.7	253.8	254.6	254.9	255.9
19°	253.0	252.9	252.8	253.8	254.0	255.1
19.5°	251.8	251.9	252.0	252.6	253.2	254.4
20°	251.1	251.1	251.0	251.8	252.2	253.3
20.5°	250.0	250.0	250.2	250.7	251.3	252.3
21°	249.1	249.1	249.2	249.9	250.5	251.3



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	246.1	246.0	246.0	246.7	247.3	248.5
23°	244.9	245.0	245.0	245.8	246.4	247.4
23.5°	243.8	243.8	243.9	244.7	245.4	246.3
24°	242.7	242.8	242.9	243.6	244.1	245.4
24.5°	241.6	241.7	241.7	242.4	243.1	244.3
25°	240.6	240.6	240.4	241.4	242.0	243.2
25.5°	239.3	239.4	239.3	240.2	241.0	242.0
26°	238.0	238.2	238.1	239.0	240.3	240.9
26.5°	236.9	237.2	237.1	237.7	238.5	239.7
27°	235.7	236.0	235.9	236.7	237.4	238.5
27.5°	234.4	234.7	234.6	235.4	236.3	237.4
28°	233.2	233.4	233.4	234.2	235.1	236.3
28.5°	231.8	232.2	232.2	233.0	233.9	234.9
29°	230.6	230.9	230.8	231.8	232.6	233.8
29.5°	229.2	229.6	229.5	230.5	231.5	232.6
30°	227.9	228.3	228.2	229.1	230.1	231.4
30.5°	226.6	226.9	226.8	227.7	228.8	230.1
31°	225.3	225.5	225.4	226.4	227.4	228.8
31.5°	223.8	224.2	224.0	224.9	226.0	227.4
32°	222.5	222.7	222.6	223.7	224.7	226.0
32.5°	221.0	221.2	221.2	222.1	223.3	224.7
33°	219.6	219.7	219.6	220.7	221.8	223.4
33.5°	218.2	218.3	218.2	219.2	220.5	221.8
34°	216.6	216.8	216.8	217.8	219.1	220.5
34.5°	215.1	215.3	215.3	216.3	217.5	219.0
35°	213.6	213.9	213.7	214.8	216.0	217.6
35.5°	212.0	212.2	212.2	213.3	214.5	216.1
36°	210.5	210.7	210.6	211.8	212.9	214.5
36.5°	208.8	209.1	209.1	210.3	211.4	213.0
37°	207.2	207.6	207.5	208.7	209.8	211.6
37.5°	205.6	205.8	205.9	207.0	208.1	209.9
38°	204.1	204.2	204.2	205.6	206.5	208.4
38.5°	202.3	202.5	202.7	203.9	205.0	206.7
39°	200.8	201.1	201.1	202.3	203.4	205.2
39.5°	199.1	199.3	199.4	200.6	201.8	203.5
40°	197.4	197.7	197.7	199.0	200.2	201.9
40.5°	195.7	195.9	196.0	197.3	198.5	200.3
41°	194.0	194.3	194.3	195.6	196.8	198.8
41.5°	192.3	192.5	192.6	193.8	195.2	197.0
42°	190.5	190.9	190.8	192.2	193.3	195.3
42.5°	188.7	189.0	189.1	190.3	191.6	193.6
43°	187.0	187.2	187.3	188.6	189.8	191.9
43.5°	185.2	185.3	185.5	186.8	188.2	190.1



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	179.7	179.9	179.9	181.3	182.7	184.8
45.5°	177.8	178.0	178.1	179.4	180.9	183.0
46°	176.0	176.2	176.2	177.6	179.1	181.1
46.5°	174.1	174.3	174.4	175.7	177.2	179.3
47°	172.1	172.4	172.5	173.8	175.4	177.5
47.5°	170.1	170.4	170.5	171.8	173.6	175.5
48°	168.3	168.5	168.6	169.9	171.6	173.6
48.5°	166.3	166.5	166.6	167.9	169.7	171.8
49°	164.5	164.7	164.9	166.1	167.7	170.0
49.5°	162.6	162.7	162.9	164.3	166.0	168.0
50°	160.6	160.7	161.0	162.2	164.1	166.1
50.5°	158.6	158.7	159.0	160.3	162.1	164.1
51°	156.6	156.6	156.9	158.3	160.2	162.2
51.5°	154.5	154.6	155.0	156.3	158.2	160.3
52°	152.6	152.6	153.0	154.3	156.1	158.3
52.5°	150.4	150.5	150.9	152.3	154.1	156.2
53°	148.5	148.5	148.8	150.1	152.2	154.3
53.5°	146.5	146.4	146.8	148.2	150.1	152.3
54°	144.3	144.3	144.7	146.1	148.1	150.3
54.5°	142.2	142.2	142.7	143.9	146.0	148.3
55°	140.1	140.1	140.5	141.8	143.9	146.2
55.5°	138.2	137.9	138.5	139.8	141.7	143.9
56°	136.0	135.9	136.2	137.7	139.6	142.0
56.5°	133.9	133.7	134.3	135.6	137.6	139.9
57°	131.7	131.5	132.1	133.4	135.4	137.7
57.5°	129.7	129.4	130.0	131.2	133.3	135.5
58°	127.5	127.3	127.8	129.2	131.2	133.5
58.5°	125.4	125.2	125.7	127.1	129.1	131.2
59°	123.2	123.0	123.5	124.8	126.9	129.2
59.5°	121.0	120.8	121.3	122.6	124.7	126.9
60°	118.9	118.6	119.0	120.5	122.5	124.8
60.5°	116.7	116.3	117.0	118.3	120.3	122.6
61°	114.4	114.2	114.6	116.1	118.0	120.4
61.5°	112.3	112.1	112.5	113.8	116.0	118.1
62°	110.1	109.8	110.2	111.6	113.6	115.9
62.5°	107.8	107.4	108.0	109.3	111.4	113.7
63°	105.6	105.3	105.7	107.2	109.1	111.5
63.5°	103.3	103.0	103.4	104.9	107.0	109.1
64°	101.1	100.8	101.2	102.7	104.6	107.0
64.5°	98.9	98.5	99.0	100.5	102.4	104.8
65°	96.5	96.3	96.7	98.2	100.1	102.5
65.5°	94.4	94.2	94.6	95.9	98.0	100.2
66°	92.2	91.9	92.3	93.9	95.6	98.0



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	85.4	85.0	85.5	87.1	89.3	91.4
68°	83.2	82.8	83.2	84.9	87.0	89.3
68.5°	80.9	80.5	81.1	82.6	84.9	87.0
69°	78.8	78.4	78.8	80.4	82.6	84.8
69.5°	76.5	76.0	76.5	78.0	80.4	82.5
70°	74.3	73.8	74.3	75.9	78.2	80.4
70.5°	72.1	71.6	72.0	73.6	76.0	78.1
71°	69.9	69.4	69.7	71.4	73.7	76.0
71.5°	67.6	67.0	67.5	69.1	71.5	73.7
72°	65.4	64.9	65.3	67.0	69.2	71.5
72.5°	63.2	62.6	63.1	64.7	67.0	69.2
73°	60.9	60.4	60.9	62.5	64.7	67.0
73.5°	58.7	58.2	58.8	60.3	62.5	64.7
74°	56.6	56.0	56.6	58.3	60.3	62.6
74.5°	54.4	53.8	54.5	56.0	58.3	60.4
75°	52.2	51.7	52.2	53.8	56.0	58.2
75.5°	50.0	49.4	50.2	51.6	53.9	56.0
76°	48.0	47.3	47.9	49.5	51.6	53.9
76.5°	45.8	45.0	45.8	47.3	49.4	51.7
77°	43.6	42.9	43.7	45.2	47.2	49.5
77.5°	41.6	41.0	41.6	43.1	45.1	47.4
78°	39.5	38.7	39.5	41.2	43.0	45.2
78.5°	37.4	36.6	37.4	39.0	40.9	43.2
79°	35.4	34.6	35.4	36.9	38.8	41.2
79.5°	33.5	32.6	33.3	34.8	37.0	39.1
80°	31.4	30.5	31.3	32.8	34.9	37.0
80.5°	29.3	28.5	29.3	30.8	32.8	34.9
81°	27.5	26.6	27.4	28.9	30.8	32.9
81.5°	25.5	24.7	25.5	27.0	28.8	31.0
82°	23.6	23.0	23.8	25.1	26.9	29.0
82.5°	22.0	21.0	21.8	23.3	25.2	27.1
83°	20.2	19.2	19.9	21.6	23.4	25.2
83.5°	18.3	17.4	18.2	19.7	21.5	23.4
84°	16.4	15.6	16.4	17.9	19.8	21.7
84.5°	14.7	13.9	14.6	16.1	17.9	19.8
85°	13.0	12.1	12.8	14.4	16.1	18.0
85.5°	11.3	10.4	11.2	12.7	14.5	16.2
86°	9.6	8.7	9.5	10.9	12.7	14.4
86.5°	8.0	7.1	7.8	9.3	11.0	12.7
87°	6.4	5.6	6.3	7.6	9.4	11.0
87.5°	5.0	4.1	4.8	6.1	7.7	9.4
88°	3.5	2.9	3.5	4.6	6.2	7.7
88.5°	2.1	1.6	2.0	3.1	4.7	6.3



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.6	0.6	0.6	1.0
90.5°	0.3	0.6	0.6	0.6	0.6	0.6
91°	0.3	0.6	0.6	0.5	0.6	0.6
91.5°	0.3	0.6	0.6	0.5	0.6	0.6
92°	0.3	0.6	0.5	0.5	0.4	0.6
92.5°	0.3	0.6	0.5	0.5	0.4	0.6
93°	0.3	0.6	0.5	0.5	0.4	0.6
93.5°	0.3	0.6	0.5	0.5	0.4	0.6
94°	0.3	0.6	0.5	0.5	0.4	0.6
94.5°	0.3	0.6	0.5	0.5	0.4	0.6
95°	0.3	0.6	0.5	0.5	0.4	0.6
95.5°	0.3	0.6	0.5	0.5	0.4	0.6
96°	0.3	0.6	0.5	0.5	0.4	0.6
96.5°	0.3	0.6	0.5	0.5	0.4	0.6
97°	0.3	0.6	0.5	0.5	0.4	0.6
97.5°	0.3	0.6	0.5	0.5	0.4	0.6
98°	0.3	0.6	0.5	0.5	0.4	0.6
98.5°	0.3	0.6	0.5	0.5	0.4	0.6
99°	0.3	0.6	0.5	0.5	0.4	0.6
99.5°	0.4	0.6	0.5	0.5	0.4	0.6
100°	0.4	0.6	0.5	0.5	0.4	0.6
100.5°	0.4	0.6	0.5	0.5	0.4	0.6
101°	0.4	0.6	0.5	0.5	0.4	0.6
101.5°	0.4	0.6	0.5	0.5	0.4	0.6
102°	0.4	0.6	0.5	0.5	0.4	0.6
102.5°	0.4	0.6	0.5	0.5	0.4	0.6
103°	0.5	0.6	0.5	0.5	0.4	0.6
103.5°	0.5	0.6	0.5	0.5	0.4	0.6
104°	0.6	0.6	0.5	0.5	0.4	0.6
104.5°	0.6	0.6	0.5	0.5	0.4	0.6
105°	0.5	0.6	0.5	0.5	0.4	0.6
105.5°	0.5	0.6	0.5	0.5	0.4	0.6
106°	0.5	0.6	0.5	0.5	0.4	0.6
106.5°	0.5	0.6	0.5	0.5	0.4	0.6
107°	0.5	0.6	0.5	0.5	0.4	0.6
107.5°	0.5	0.6	0.5	0.5	0.5	0.6
108°	0.5	0.6	0.5	0.5	0.4	0.6
108.5°	0.5	0.6	0.5	0.5	0.4	0.6
109°	0.5	0.6	0.5	0.5	0.5	0.6
109.5°	0.5	0.6	0.5	0.5	0.6	0.6
110°	0.5	0.6	0.5	0.5	0.6	0.6
110.5°	0.5	0.6	0.5	0.5	0.6	0.6
111°	0.6	0.6	0.5	0.5	0.6	0.6



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.6	0.6	0.5	0.5	0.6	0.6
113°	0.6	0.6	0.5	0.5	0.6	0.6
113.5°	0.6	0.6	0.5	0.5	0.6	0.6
114°	0.6	0.6	0.5	0.5	0.6	0.6
114.5°	0.6	0.6	0.5	0.5	0.6	0.6
115°	0.6	0.6	0.5	0.5	0.6	0.6
115.5°	0.6	0.6	0.5	0.5	0.6	0.6
116°	0.6	0.6	0.5	0.5	0.6	0.6
116.5°	0.6	0.6	0.5	0.5	0.6	0.6
117°	0.6	0.6	0.5	0.5	0.6	0.6
117.5°	0.6	0.6	0.5	0.5	0.6	0.6
118°	0.6	0.6	0.5	0.5	0.6	0.6
118.5°	0.6	0.6	0.5	0.5	0.6	0.6
119°	0.6	0.6	0.5	0.5	0.6	0.6
119.5°	0.6	0.6	0.5	0.5	0.6	0.6
120°	0.6	0.6	0.5	0.5	0.6	0.6
120.5°	0.6	0.6	0.5	0.5	0.6	0.6
121°	0.6	0.6	0.5	0.5	0.6	0.6
121.5°	0.6	0.6	0.5	0.5	0.6	0.6
122°	0.6	0.6	0.5	0.5	0.7	0.6
122.5°	0.6	0.6	0.5	0.5	0.7	0.6
123°	0.6	0.6	0.5	0.5	0.6	0.6
123.5°	0.6	0.6	0.5	0.5	0.6	0.6
124°	0.6	0.6	0.5	0.5	0.6	0.6
124.5°	0.6	0.6	0.5	0.5	0.6	0.6
125°	0.6	0.6	0.5	0.5	0.6	0.6
125.5°	0.6	0.6	0.5	0.5	0.6	0.7
126°	0.6	0.6	0.5	0.5	0.6	0.6
126.5°	0.6	0.6	0.5	0.5	0.6	0.6
127°	0.6	0.6	0.5	0.5	0.6	0.8
127.5°	0.6	0.6	0.5	0.5	0.6	0.7
128°	0.6	0.6	0.5	0.5	0.6	0.7
128.5°	0.6	0.6	0.5	0.5	0.6	0.7
129°	0.6	0.6	0.5	0.5	0.6	0.7
129.5°	0.6	0.6	0.5	0.5	0.7	0.7
130°	0.6	0.6	0.5	0.5	0.7	0.7
130.5°	0.6	0.6	0.5	0.5	0.7	0.7
131°	0.6	0.6	0.5	0.5	0.7	0.7
131.5°	0.6	0.6	0.5	0.5	0.7	0.7
132°	0.6	0.6	0.5	0.5	0.7	0.7
132.5°	0.6	0.6	0.5	0.5	0.8	0.7
133°	0.6	0.6	0.6	0.5	0.8	0.8
133.5°	0.6	0.6	0.5	0.5	0.8	0.8



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417451

CATALOG NUMBER: SMD6S69SWH - 5000K

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°	250.5	250.7	251.0	251.2	251.6	251.3	250.6	250.0	249.5	248.8	248.2
22°	249.5	249.8	250.1	250.2	250.6	250.2	249.6	249.0	248.5	247.7	247.1



44°	188.4	189.0	189.1	189.4	190.3	189.2	188.3	187.3	186.8	185.0	183.8
44.5°	186.5	187.1	187.5	187.7	188.6	187.5	186.4	185.4	184.8	183.1	181.9



66.5°	95.7	96.8	97.3	97.4	98.7	97.3	96.2	95.1	94.4	92.4	90.6
67°	93.7	94.8	95.1	95.2	96.4	95.3	94.3	93.2	92.1	90.2	88.4



89°	5.0	5.6	5.7	5.6	6.0	5.8	5.4	4.8	4.2	2.9	1.5
89.5°	2.3	4.1	4.1	4.1	4.8	4.3	4.0	3.3	2.4	1.1	0.3



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



134°	0.8	0.7	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.8	0.6
134.5°	0.8	0.9	0.6	0.7	0.4	0.7	0.8	0.7	0.7	0.7	0.6



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



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





21.5°	248.0	247.9	248.1	248.8	249.3	250.5
22°	247.1	247.2	247.0	247.8	248.3	249.5



44°	183.3	183.6	183.7	185.0	186.3	188.4
44.5°	181.5	181.8	181.8	183.1	184.6	186.5



66.5°	89.9	89.6	90.2	91.7	93.7	95.7
67°	87.7	87.3	87.8	89.4	91.5	93.7



89°	0.8	0.8	1.0	1.6	3.2	5.0
89.5°	0.4	0.6	0.6	0.7	1.3	2.3



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



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



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



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



(END OF REPORT)