

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: P417450

Luminaire Tested: **SMD6S69SWH - 4000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417450
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 - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

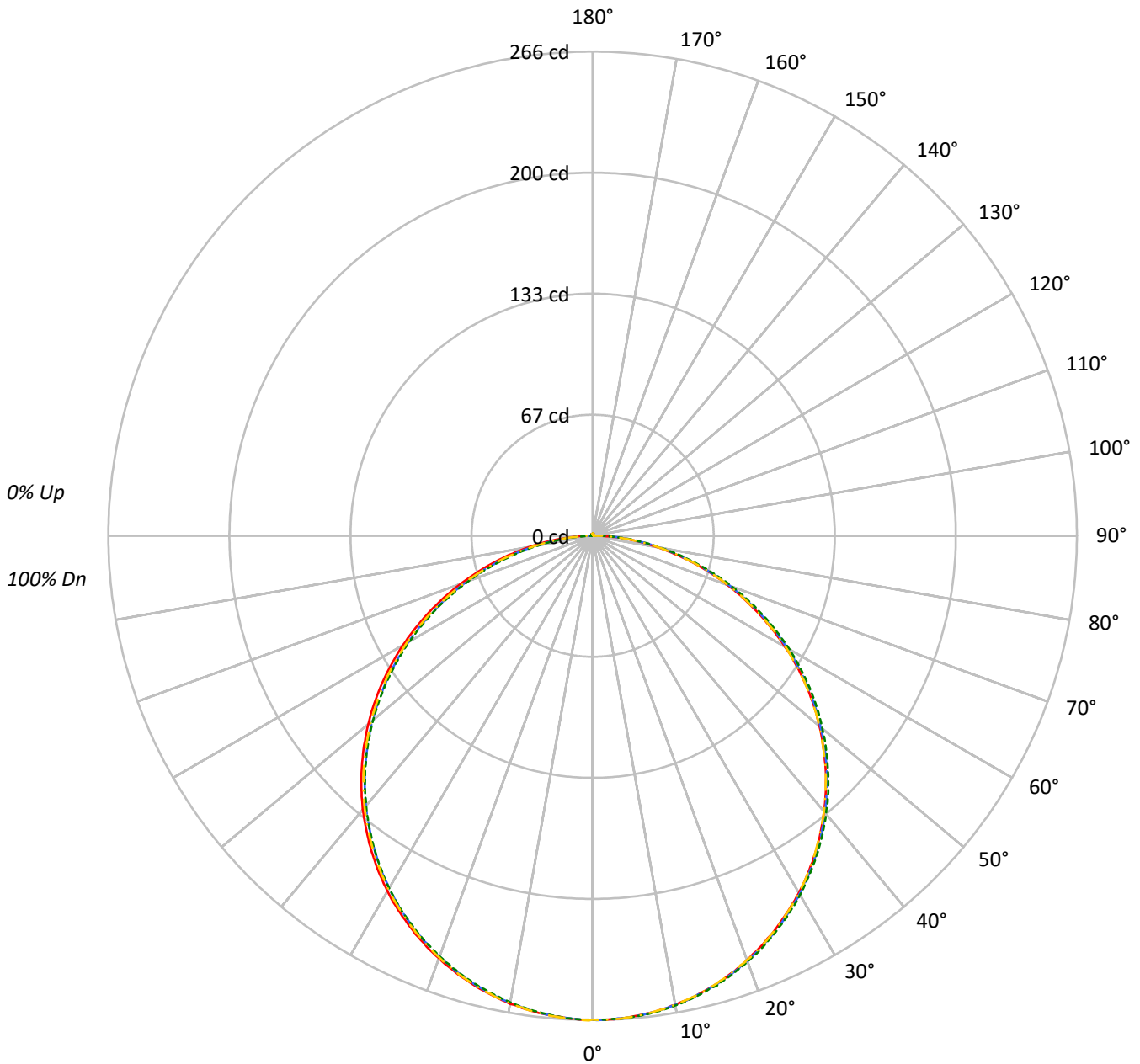
Lumens per Lamp: N/A
Luminaire Lumens: 781.9 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	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°	11449	11449	11449	11449
5°	11449	11458	11436	11423
10°	11437	11455	11420	11380
15°	11411	11438	11366	11326
20°	11368	11409	11317	11267
25°	11316	11368	11269	11193
30°	11266	11330	11206	11112
35°	11201	11269	11127	11006
40°	11112	11213	11039	10881
45°	11021	11131	10918	10723
50°	10891	11032	10778	10543
55°	10749	10922	10592	10299
60°	10523	10747	10359	9998
65°	10229	10514	10066	9607
70°	9907	10247	9693	9102
75°	9482	9881	9233	8418
80°	8976	9521	8653	7389
85°	8695	9584	8250	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	3.2
10°-20°	72.1	9.2
20°-30°	109.4	14.0
30°-40°	132.5	16.9
40°-50°	138.3	17.7
50°-60°	126.2	16.1
60°-70°	97.7	12.5
70°-80°	58.5	7.5
80°-90°	18.2	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°	206.6	26.4
0°-40°	339.1	43.4
0°-60°	603.6	77.2
0°-90°	778.0	99.5
90°-120°	1.4	0.2
90°-150°	2.9	0.4
90°-180°	4.0	0.5
0°-180°	781.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	266	266	266	266	266	
5°	265	265	265	264	265	25
15°	256	257	255	254	256	72
25°	238	239	237	236	238	110
35°	213	214	212	209	213	133
45°	181	183	179	176	181	140
55°	143	146	141	137	143	128
65°	100	103	99	94	100	99
75°	57	59	56	51	57	60
85°	18	19	17	12	18	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°	265.9	265.9	265.9	265.9	265.9	265.9	265.9	265.9	265.9	265.9	265.9
0.5°	266.0	266.0	266.1	266.1	265.9	266.1	266.0	266.0	266.0	265.8	266.2
1°	265.9	266.0	266.0	266.1	265.9	266.0	266.1	265.8	265.9	265.9	265.9
1.5°	266.0	265.8	266.0	266.0	265.9	266.0	266.1	265.9	265.9	265.7	265.8
2°	265.8	265.9	265.9	266.0	265.9	266.0	266.0	265.9	265.7	265.7	265.7
2.5°	265.9	265.8	265.9	265.9	265.7	265.8	265.9	265.7	265.6	265.5	265.5
3°	265.8	265.7	265.5	265.8	266.1	266.0	265.7	265.6	265.5	265.4	265.3
3.5°	265.6	265.5	265.7	265.6	265.7	265.7	265.7	265.4	265.2	265.3	265.2
4°	265.5	265.3	265.4	265.4	265.6	265.4	265.3	265.2	264.9	265.1	264.9
4.5°	265.2	265.1	265.2	265.3	265.5	265.3	265.3	265.1	264.9	264.6	264.8
5°	264.9	264.9	265.0	265.1	265.1	265.0	265.0	264.9	264.6	264.6	264.4
5.5°	264.7	264.6	264.9	265.0	265.0	264.9	264.8	264.7	264.3	264.1	264.2
6°	264.5	264.5	264.6	264.7	264.7	264.7	264.4	264.4	264.0	263.9	263.9
6.5°	264.2	264.1	264.3	264.5	264.5	264.4	264.2	264.1	263.8	263.5	263.7
7°	263.9	263.8	264.0	264.1	264.2	264.0	263.9	263.7	263.3	263.3	263.2
7.5°	263.6	263.4	263.8	263.9	263.8	263.8	263.5	263.5	263.0	263.1	262.9
8°	263.2	263.2	263.4	263.6	263.6	263.4	263.2	263.0	262.6	262.5	262.5
8.5°	262.8	262.8	263.0	263.1	263.2	262.9	262.9	262.8	262.3	262.0	262.0
9°	262.7	262.4	262.6	262.7	262.9	262.7	262.5	262.3	261.7	261.7	261.4
9.5°	261.9	262.0	262.1	262.2	262.5	262.7	262.1	261.9	261.3	261.2	261.1
10°	261.6	261.5	261.7	261.8	262.0	261.9	261.5	261.4	261.2	260.7	260.6
10.5°	261.1	261.1	261.4	261.4	261.6	261.5	261.0	260.9	260.5	260.3	260.0
11°	260.6	260.6	260.7	260.8	261.2	260.9	260.6	260.4	259.9	259.6	259.6
11.5°	260.3	260.1	260.4	260.4	260.6	260.5	260.1	259.8	259.4	259.1	258.9
12°	259.6	259.5	259.6	259.9	260.1	259.9	259.5	259.3	258.7	258.7	258.5
12.5°	259.2	259.0	259.2	259.3	259.5	259.4	259.1	258.6	258.2	257.8	257.7
13°	258.5	258.4	258.6	258.6	259.0	258.9	258.4	257.9	257.6	257.3	257.1
13.5°	257.9	257.8	258.0	258.2	258.4	258.3	257.8	257.5	257.0	256.6	256.5
14°	257.3	257.3	257.5	257.5	257.8	257.7	257.2	256.9	256.4	255.9	255.7
14.5°	256.6	256.7	256.9	257.0	257.0	257.1	256.6	256.2	255.7	255.2	255.1
15°	256.0	256.1	256.1	256.2	256.6	256.3	255.9	255.3	255.0	254.5	254.4
15.5°	255.3	255.4	255.7	255.6	256.3	255.8	255.3	254.8	254.2	253.9	253.7
16°	254.5	254.7	254.7	254.9	255.1	255.0	254.4	254.0	253.5	253.1	252.9
16.5°	253.9	253.8	254.1	254.1	254.5	254.3	253.8	253.2	252.8	252.3	252.2
17°	253.0	253.1	253.3	253.5	253.9	253.6	253.0	252.6	252.1	251.6	251.3
17.5°	252.2	252.3	252.7	252.7	253.1	252.8	252.2	251.8	251.2	250.9	250.6
18°	251.6	251.6	251.8	252.0	252.3	252.0	251.4	251.0	250.4	250.0	249.6
18.5°	250.6	250.8	251.1	251.3	251.4	251.3	250.8	250.2	249.6	249.1	248.8
19°	249.8	250.0	250.1	250.3	250.6	250.3	249.6	249.4	248.9	248.4	247.8
19.5°	249.1	249.3	249.5	249.4	249.8	249.5	249.0	248.5	248.0	247.4	246.9
20°	248.1	248.4	248.6	248.6	249.0	248.6	248.0	247.5	247.0	246.5	246.1
20.5°	247.1	247.4	247.7	247.7	248.1	247.8	247.3	246.8	246.2	245.6	245.2
21°	246.1	246.5	246.7	246.9	247.4	246.9	246.2	245.7	245.2	244.6	244.1



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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°	243.4	243.7	243.9	244.0	244.5	244.1	243.4	242.8	242.2	241.6	241.2
23°	242.3	242.7	242.8	243.1	243.5	243.2	242.5	241.7	241.4	240.5	240.1
23.5°	241.2	241.7	242.0	242.1	242.4	242.1	241.5	240.9	240.4	239.4	239.1
24°	240.3	240.6	240.9	241.1	241.4	241.2	240.3	239.7	239.4	238.4	238.1
24.5°	239.2	239.5	239.9	240.1	240.4	240.1	239.2	238.7	238.2	237.2	236.9
25°	238.2	238.4	238.8	238.9	239.3	239.0	238.1	238.0	237.2	236.1	235.7
25.5°	237.0	237.3	237.8	237.9	238.2	237.9	237.1	236.5	236.1	235.0	234.6
26°	235.9	236.5	236.7	236.8	237.2	236.9	236.1	235.5	234.9	233.9	233.3
26.5°	234.7	235.2	235.5	235.7	236.1	235.7	235.0	234.4	233.8	232.8	232.4
27°	233.6	234.1	234.3	234.6	235.0	234.5	233.7	233.1	232.7	231.7	231.2
27.5°	232.5	232.8	233.3	233.5	233.7	233.4	232.7	232.1	231.6	230.5	229.9
28°	231.4	231.9	232.1	232.3	232.6	232.3	231.5	230.8	230.4	229.3	228.6
28.5°	230.1	230.8	231.1	231.2	231.6	231.3	230.3	229.8	229.2	228.0	227.4
29°	229.0	229.5	229.7	230.0	230.4	230.0	229.0	228.5	228.0	226.8	226.3
29.5°	227.8	228.4	228.5	228.8	229.1	228.8	227.9	227.3	226.7	225.5	224.8
30°	226.6	227.1	227.3	227.5	227.9	227.5	226.6	225.9	225.4	224.1	223.4
30.5°	225.3	225.8	226.1	226.2	226.6	226.1	225.3	224.7	224.1	222.9	222.1
31°	224.0	224.5	224.7	224.8	225.3	224.9	223.9	223.3	222.9	221.6	220.8
31.5°	222.7	223.4	223.5	223.5	224.0	223.7	222.7	222.0	221.4	220.2	219.5
32°	221.3	222.0	222.1	222.2	222.6	222.3	221.3	220.8	220.1	218.9	218.1
32.5°	220.0	220.4	220.8	221.0	221.3	220.9	219.9	219.4	218.9	217.5	216.7
33°	218.7	219.3	219.3	219.5	220.0	219.5	218.5	217.8	217.5	216.0	215.2
33.5°	217.2	217.8	218.1	218.3	218.6	218.2	217.1	216.5	216.0	214.8	213.9
34°	216.0	216.5	216.6	216.9	217.3	216.8	215.7	215.0	214.5	213.2	212.3
34.5°	214.4	215.0	215.3	215.4	215.9	215.3	214.4	213.8	213.1	211.7	210.9
35°	213.1	213.6	213.8	214.1	214.4	213.9	212.9	212.2	211.7	210.3	209.4
35.5°	211.6	212.4	212.3	212.5	213.1	212.4	211.5	210.9	210.1	208.8	208.0
36°	210.1	210.7	210.8	211.2	211.6	210.9	209.9	209.3	208.8	207.2	206.4
36.5°	208.6	209.0	209.5	209.7	210.1	209.5	208.4	207.8	207.2	205.8	204.9
37°	207.2	207.5	207.9	208.2	208.7	208.0	207.0	206.3	205.6	204.3	203.2
37.5°	205.6	206.0	206.4	206.6	207.3	206.4	205.4	204.7	204.1	202.7	201.7
38°	204.1	204.5	204.8	205.2	205.7	205.0	203.9	203.1	202.6	201.1	200.1
38.5°	202.4	203.0	203.3	203.6	204.2	203.3	202.4	201.5	201.0	199.5	198.5
39°	200.9	201.5	201.7	202.1	202.6	201.8	200.8	200.0	199.4	197.9	196.9
39.5°	199.3	200.1	200.2	200.5	201.1	200.2	199.2	198.4	197.9	196.5	195.5
40°	197.7	198.3	198.5	198.8	199.5	198.7	197.7	196.9	196.4	194.7	193.7
40.5°	196.2	196.8	197.0	197.3	197.8	197.0	196.1	195.2	194.7	193.1	192.1
41°	194.6	195.2	195.3	195.6	196.4	195.5	194.4	193.5	193.0	191.4	190.3
41.5°	192.9	193.5	193.8	194.1	194.8	193.7	192.7	192.0	191.4	189.8	188.8
42°	191.3	192.0	192.0	192.4	193.1	192.2	191.0	190.2	189.6	188.0	186.9
42.5°	189.6	190.1	190.3	190.6	191.5	190.4	189.4	188.5	188.0	186.4	185.3
43°	187.9	188.4	188.6	189.0	189.7	188.7	187.6	186.8	186.3	184.6	183.5
43.5°	186.1	186.7	186.9	187.3	188.0	187.0	186.0	185.2	184.5	182.8	181.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	181.0	181.6	181.8	182.0	182.8	181.8	180.7	179.8	179.3	177.7	176.3
45.5°	179.2	179.9	180.0	180.3	181.1	180.0	179.1	178.1	177.5	175.7	174.5
46°	177.3	177.9	178.3	178.5	179.4	178.2	177.1	176.2	175.6	173.9	172.7
46.5°	175.6	176.2	176.5	176.7	177.6	176.4	175.4	174.5	173.9	172.2	170.9
47°	173.8	174.4	174.7	174.8	175.8	174.6	173.6	172.6	172.0	170.3	169.1
47.5°	171.8	172.5	172.8	173.0	174.0	172.9	171.7	170.8	170.2	168.4	167.2
48°	170.0	171.0	171.0	171.3	172.2	170.9	169.8	168.9	168.1	166.6	165.2
48.5°	168.2	168.8	169.2	169.3	170.4	169.1	168.1	167.2	166.4	164.6	163.4
49°	166.4	167.0	167.3	167.4	168.6	167.3	166.1	165.3	164.6	162.9	161.7
49.5°	164.5	165.0	165.4	165.6	166.6	165.5	164.3	163.4	162.7	161.1	159.8
50°	162.6	163.1	163.4	163.6	164.7	163.5	162.4	161.7	160.9	159.0	157.8
50.5°	160.7	161.4	161.7	161.9	162.9	161.8	160.6	159.8	158.9	157.1	155.8
51°	158.8	159.5	159.8	160.0	161.1	159.8	158.7	157.9	157.0	155.2	153.9
51.5°	157.0	157.6	158.0	158.2	159.2	157.9	156.8	155.9	155.1	153.3	152.0
52°	155.0	155.6	155.9	156.1	157.3	156.0	154.8	154.0	153.1	151.4	150.0
52.5°	153.0	153.7	154.0	154.2	155.4	154.0	152.9	152.1	151.2	149.4	148.0
53°	151.1	151.7	152.1	152.2	153.3	152.0	150.9	150.1	149.1	147.4	146.0
53.5°	149.1	150.2	150.0	150.3	151.5	150.1	148.9	148.1	147.1	145.5	143.9
54°	147.2	147.8	148.0	148.3	149.4	148.1	146.8	146.1	145.1	143.4	141.9
54.5°	145.2	145.7	146.0	146.2	147.5	146.1	145.0	144.1	143.1	141.4	139.9
55°	143.2	143.7	144.1	144.2	145.5	144.0	142.9	142.0	141.1	139.3	137.9
55.5°	140.9	141.6	142.1	142.3	143.5	142.0	141.0	140.0	139.1	137.2	135.7
56°	139.0	139.6	140.0	140.3	141.4	140.1	138.9	138.0	136.9	135.2	133.7
56.5°	137.0	137.5	138.0	138.2	139.4	138.0	136.7	136.0	134.9	133.1	131.7
57°	134.9	135.5	135.8	136.1	137.3	135.9	134.7	133.9	132.7	130.9	129.6
57.5°	132.7	133.4	133.7	134.0	135.3	133.8	132.6	131.8	130.8	128.9	127.5
58°	130.7	131.3	131.7	132.0	133.1	131.9	130.7	129.8	128.7	126.8	125.5
58.5°	128.5	129.2	129.7	129.9	131.2	129.7	128.6	127.7	126.6	124.8	123.2
59°	126.6	127.2	127.6	127.8	129.0	127.6	126.5	125.7	124.5	122.8	121.2
59.5°	124.3	125.1	125.5	125.8	127.1	125.6	124.4	123.5	122.5	120.6	119.0
60°	122.2	123.1	123.4	123.6	124.8	123.5	122.4	121.4	120.3	118.5	116.9
60.5°	120.0	120.8	121.2	121.5	122.7	121.4	120.3	119.2	118.1	116.3	114.8
61°	117.9	118.8	119.1	119.4	120.6	119.3	118.1	117.0	116.1	114.1	112.6
61.5°	115.7	116.7	116.9	117.2	118.4	117.1	116.0	114.9	113.9	112.1	110.4
62°	113.5	114.5	114.9	115.0	116.2	115.0	113.9	112.8	111.7	109.8	108.3
62.5°	111.3	112.3	112.7	112.9	114.1	112.8	111.7	110.5	109.7	107.7	106.1
63°	109.2	110.2	110.6	110.7	111.9	110.7	109.6	108.3	107.4	105.5	104.0
63.5°	106.8	108.0	108.4	108.6	109.8	108.5	107.3	106.0	105.4	103.3	101.7
64°	104.8	105.8	106.2	106.3	107.6	106.3	105.2	103.9	103.1	101.2	99.5
64.5°	102.6	103.6	104.1	104.3	105.5	104.0	103.1	101.8	101.0	99.0	97.3
65°	100.4	101.4	101.9	102.0	103.2	102.0	100.9	99.6	98.8	96.9	95.2
65.5°	98.1	99.1	99.7	99.8	101.0	99.8	98.6	97.4	96.6	94.7	93.1
66°	96.0	96.9	97.5	97.5	98.8	97.6	96.5	95.2	94.4	92.6	90.9



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	89.5	90.4	91.0	91.2	92.4	91.1	90.0	89.0	88.0	86.1	84.4
68°	87.5	88.4	88.7	88.9	90.3	89.0	87.9	86.8	85.8	83.9	82.3
68.5°	85.2	86.2	86.5	86.8	88.1	86.8	85.6	84.7	83.6	81.7	80.1
69°	83.1	84.0	84.4	84.5	85.8	84.5	83.5	82.6	81.5	79.5	77.9
69.5°	80.8	81.7	82.1	82.4	83.6	82.3	81.3	80.4	79.2	77.3	75.8
70°	78.7	79.7	79.9	80.2	81.4	80.0	79.1	78.2	77.0	75.1	73.4
70.5°	76.5	77.4	77.7	78.0	79.2	77.9	76.8	76.1	74.9	73.0	71.3
71°	74.4	75.3	75.5	75.9	77.1	75.7	74.7	74.0	72.7	70.7	69.1
71.5°	72.2	73.0	73.3	73.7	74.9	73.4	72.5	71.7	70.5	68.6	67.0
72°	70.0	70.8	71.2	71.4	72.5	71.4	70.4	69.6	68.4	66.4	64.8
72.5°	67.7	68.7	68.9	69.3	70.6	69.0	68.2	67.4	66.2	64.3	62.7
73°	65.6	66.5	66.8	67.0	68.2	66.9	66.0	65.2	63.9	62.0	60.5
73.5°	63.4	64.4	64.6	64.9	65.9	64.8	63.8	62.9	61.8	59.8	58.2
74°	61.3	62.2	62.5	62.7	63.7	62.6	61.7	60.8	59.8	57.7	56.3
74.5°	59.1	59.8	60.4	60.5	61.6	60.5	59.5	58.7	57.6	55.8	54.1
75°	57.0	57.9	58.3	58.4	59.4	58.3	57.5	56.6	55.5	53.5	52.0
75.5°	54.9	55.8	56.2	56.3	57.4	56.3	55.3	54.4	53.4	51.5	49.8
76°	52.8	53.6	54.0	54.1	55.0	54.2	53.2	52.4	51.3	49.4	47.8
76.5°	50.6	51.5	51.9	51.9	53.1	52.0	51.0	50.2	49.2	47.2	45.7
77°	48.5	49.4	49.8	49.8	50.9	49.9	49.0	48.1	47.1	45.2	43.6
77.5°	46.4	47.2	47.6	47.7	48.8	47.8	46.9	46.0	45.0	43.1	41.7
78°	44.3	45.4	45.6	45.6	46.5	45.7	44.9	43.9	43.0	41.1	39.6
78.5°	42.3	43.1	43.5	43.6	44.6	43.7	42.8	41.9	40.9	39.1	37.5
79°	40.4	41.1	41.5	41.4	42.5	41.6	40.7	40.0	38.9	37.0	35.5
79.5°	38.3	39.2	39.4	39.4	40.4	39.6	38.7	37.9	36.9	35.1	33.4
80°	36.2	37.1	37.4	37.4	38.4	37.5	36.7	35.8	34.9	33.1	31.7
80.5°	34.2	35.0	35.4	35.4	36.3	35.5	34.7	33.9	32.9	31.2	29.7
81°	32.3	33.1	33.5	33.4	34.3	33.6	32.8	32.0	31.0	29.3	27.7
81.5°	30.3	31.2	31.5	31.5	32.4	31.6	30.8	30.0	29.0	27.4	25.9
82°	28.4	29.2	29.6	29.6	30.4	29.6	28.9	28.1	27.2	25.5	24.0
82.5°	26.6	27.5	27.7	27.6	28.4	27.7	27.0	26.4	25.4	23.6	22.4
83°	24.6	25.5	25.8	25.7	26.6	25.8	25.2	24.5	23.7	22.1	20.6
83.5°	22.9	23.8	24.0	23.9	24.8	24.0	23.4	22.7	21.9	20.3	18.7
84°	21.2	22.0	22.3	22.3	22.9	22.4	21.7	21.0	20.1	18.5	17.1
84.5°	19.4	20.2	20.5	20.4	21.2	20.6	20.1	19.3	18.3	16.8	15.2
85°	17.6	18.3	18.8	18.6	19.4	18.8	18.3	17.5	16.7	15.0	13.6
85.5°	15.9	16.6	17.0	16.9	17.6	17.1	16.5	15.8	14.9	13.4	12.0
86°	14.1	14.9	15.3	15.1	15.8	15.4	14.9	14.1	13.3	11.7	10.3
86.5°	12.5	13.4	13.6	13.5	14.0	13.6	13.1	12.4	11.6	10.1	8.6
87°	10.8	12.0	11.9	11.8	12.4	12.0	11.5	10.8	9.9	8.6	7.1
87.5°	9.2	10.0	10.3	10.2	10.8	10.3	9.9	9.2	8.4	6.9	5.6
88°	7.6	8.4	8.6	8.6	9.1	8.7	8.3	7.6	6.8	5.4	4.3
88.5°	6.1	6.8	7.0	7.0	7.5	7.2	6.7	6.2	5.4	4.1	2.9



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.9	2.1	2.5	2.5	3.0	2.8	2.4	1.7	0.5	0.4	0.2
90.5°	0.6	0.9	1.2	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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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	0.8	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	0.8	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	0.8	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°	1.0	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	1.0	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	1.0	1.0	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°	1.2	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	1.0	0.9	0.9
154.5°	1.1	1.1	1.0	1.1	0.9	0.9	0.9	1.0	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	1.0	0.9	1.0	0.9	0.9
156°	1.2	1.1	1.0	1.1	0.8	0.9	1.0	0.9	1.0	0.9	0.9



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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	0.9	0.9
158°	1.2	1.1	1.1	1.2	0.7	1.0	1.0	1.2	1.0	0.9	0.9
158.5°	1.2	1.1	1.1	1.2	0.8	1.0	1.0	1.1	1.0	1.1	0.9
159°	1.2	1.1	1.1	1.2	0.7	1.0	1.0	1.1	1.0	1.1	0.8
159.5°	1.2	1.1	1.1	1.2	0.7	1.0	1.1	1.1	1.0	1.0	0.8
160°	1.3	1.1	1.1	1.2	0.7	1.0	1.1	1.1	1.0	1.0	1.1
160.5°	1.3	1.1	1.1	1.2	0.7	1.0	1.2	1.1	1.0	1.0	1.1
161°	1.2	1.1	1.1	1.2	0.7	1.0	1.1	1.2	1.0	1.0	0.8
161.5°	1.2	1.1	1.1	1.2	0.7	1.0	1.1	1.2	1.0	1.0	0.9
162°	1.2	1.1	1.1	1.2	0.7	1.1	1.1	1.2	1.0	1.0	0.9
162.5°	1.2	1.1	1.1	1.2	0.7	1.1	1.2	1.2	1.1	1.0	1.1
163°	1.2	1.1	1.2	1.2	0.7	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	0.9	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	1.2	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	0.9	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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	265.9	265.9	265.9	265.9	265.9	265.9
0.5°	265.9	265.9	266.0	266.3	265.9	266.0
1°	265.9	265.8	265.8	266.1	265.8	265.9
1.5°	265.9	265.8	265.8	266.0	265.9	266.0
2°	265.7	265.7	265.6	265.9	265.7	265.8
2.5°	265.7	265.5	265.6	265.7	265.6	265.9
3°	265.3	265.4	265.2	265.5	265.4	265.8
3.5°	265.1	265.1	265.1	265.3	265.4	265.6
4°	264.9	264.8	264.9	265.2	265.1	265.5
4.5°	264.5	264.7	264.8	264.9	265.0	265.2
5°	264.4	264.3	264.5	264.8	264.6	264.9
5.5°	264.1	264.0	264.1	264.3	264.3	264.7
6°	264.0	263.7	263.7	264.1	263.9	264.5
6.5°	263.4	263.3	263.5	263.6	263.8	264.2
7°	263.1	263.0	263.1	263.5	263.3	263.9
7.5°	262.8	262.6	262.8	263.0	263.1	263.6
8°	262.2	262.2	262.2	262.7	262.5	263.2
8.5°	261.8	261.7	261.9	262.1	262.3	262.8
9°	261.5	261.4	261.4	261.8	261.7	262.7
9.5°	260.9	260.8	261.6	261.2	261.4	261.9
10°	260.4	260.3	260.4	260.8	260.8	261.6
10.5°	259.9	259.7	259.9	260.2	260.5	261.1
11°	259.2	259.2	259.4	259.8	259.8	260.6
11.5°	258.7	258.5	258.8	259.2	259.4	260.3
12°	258.3	258.0	258.2	258.7	258.8	259.6
12.5°	257.6	257.4	257.6	257.9	258.3	259.2
13°	256.9	256.8	256.9	257.5	257.5	258.5
13.5°	256.3	256.0	256.2	256.7	257.0	257.9
14°	255.6	255.6	255.4	256.2	256.4	257.3
14.5°	254.8	254.7	254.9	255.4	255.8	256.6
15°	254.1	254.1	254.1	254.9	255.0	256.0
15.5°	253.3	253.3	253.6	254.0	254.5	255.3
16°	252.7	252.7	252.7	253.3	253.6	254.5
16.5°	251.9	251.8	251.9	252.5	253.0	253.9
17°	251.1	251.1	251.0	251.8	252.0	253.0
17.5°	250.3	250.1	250.3	250.8	251.4	252.2
18°	249.6	249.5	249.5	250.1	250.5	251.6
18.5°	248.5	248.4	248.6	249.3	249.6	250.6
19°	247.7	247.7	247.6	248.5	248.8	249.8
19.5°	246.6	246.7	246.8	247.4	247.9	249.1
20°	245.9	245.9	245.8	246.5	247.0	248.1
20.5°	244.8	244.8	245.0	245.5	246.1	247.1
21°	243.9	243.9	244.0	244.7	245.3	246.1



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	241.0	240.9	240.9	241.6	242.2	243.4
23°	239.8	239.9	239.9	240.7	241.3	242.3
23.5°	238.7	238.8	238.8	239.6	240.3	241.2
24°	237.7	237.8	237.8	238.6	239.1	240.3
24.5°	236.6	236.7	236.6	237.3	238.0	239.2
25°	235.6	235.6	235.4	236.4	236.9	238.2
25.5°	234.3	234.4	234.3	235.2	236.0	237.0
26°	233.1	233.3	233.2	234.0	235.3	235.9
26.5°	232.0	232.2	232.2	232.8	233.6	234.7
27°	230.8	231.1	231.0	231.8	232.5	233.6
27.5°	229.6	229.8	229.7	230.5	231.4	232.5
28°	228.3	228.6	228.5	229.4	230.2	231.4
28.5°	227.0	227.4	227.4	228.2	229.0	230.1
29°	225.9	226.1	226.0	227.0	227.8	229.0
29.5°	224.4	224.8	224.7	225.7	226.6	227.8
30°	223.1	223.5	223.4	224.4	225.3	226.6
30.5°	221.9	222.2	222.1	222.9	224.1	225.3
31°	220.6	220.8	220.7	221.7	222.6	224.0
31.5°	219.2	219.5	219.4	220.2	221.3	222.7
32°	217.9	218.0	218.0	219.0	220.0	221.3
32.5°	216.4	216.6	216.6	217.5	218.6	220.0
33°	215.0	215.2	215.1	216.1	217.2	218.7
33.5°	213.7	213.7	213.7	214.6	215.9	217.2
34°	212.1	212.3	212.3	213.3	214.5	216.0
34.5°	210.7	210.8	210.8	211.8	213.0	214.4
35°	209.2	209.4	209.3	210.3	211.5	213.1
35.5°	207.6	207.8	207.8	208.9	210.0	211.6
36°	206.1	206.3	206.2	207.4	208.5	210.1
36.5°	204.5	204.7	204.7	205.9	207.0	208.6
37°	202.9	203.3	203.2	204.3	205.4	207.2
37.5°	201.3	201.6	201.6	202.7	203.8	205.6
38°	199.8	200.0	200.0	201.3	202.2	204.1
38.5°	198.1	198.3	198.4	199.6	200.8	202.4
39°	196.6	196.9	196.9	198.1	199.2	200.9
39.5°	195.0	195.2	195.3	196.5	197.6	199.3
40°	193.3	193.6	193.6	194.9	196.1	197.7
40.5°	191.6	191.8	192.0	193.2	194.4	196.2
41°	190.0	190.2	190.3	191.5	192.7	194.6
41.5°	188.3	188.5	188.6	189.8	191.1	192.9
42°	186.5	186.9	186.9	188.2	189.3	191.3
42.5°	184.8	185.1	185.2	186.4	187.7	189.6
43°	183.1	183.3	183.4	184.6	185.9	187.9
43.5°	181.3	181.5	181.6	182.9	184.3	186.1



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	176.0	176.1	176.2	177.6	178.9	181.0
45.5°	174.1	174.3	174.4	175.7	177.1	179.2
46°	172.3	172.6	172.5	173.9	175.3	177.3
46.5°	170.4	170.7	170.8	172.0	173.5	175.6
47°	168.5	168.8	168.9	170.2	171.7	173.8
47.5°	166.6	166.8	167.0	168.2	170.0	171.8
48°	164.8	165.0	165.1	166.4	168.0	170.0
48.5°	162.9	163.1	163.1	164.4	166.2	168.2
49°	161.1	161.3	161.5	162.7	164.2	166.4
49.5°	159.2	159.3	159.6	160.9	162.5	164.5
50°	157.3	157.4	157.6	158.9	160.7	162.6
50.5°	155.3	155.4	155.7	156.9	158.7	160.7
51°	153.4	153.4	153.6	155.0	156.8	158.8
51.5°	151.3	151.4	151.8	153.1	154.9	157.0
52°	149.4	149.4	149.8	151.1	152.9	155.0
52.5°	147.3	147.4	147.8	149.1	150.9	153.0
53°	145.4	145.4	145.7	147.0	149.0	151.1
53.5°	143.4	143.3	143.8	145.1	147.0	149.1
54°	141.3	141.3	141.7	143.0	145.0	147.2
54.5°	139.2	139.3	139.7	140.9	142.9	145.2
55°	137.2	137.2	137.6	138.9	141.0	143.2
55.5°	135.3	135.1	135.6	136.9	138.7	140.9
56°	133.2	133.1	133.4	134.8	136.7	139.0
56.5°	131.1	130.9	131.5	132.8	134.7	137.0
57°	129.0	128.8	129.3	130.6	132.5	134.9
57.5°	127.0	126.7	127.3	128.5	130.5	132.7
58°	124.8	124.7	125.1	126.5	128.5	130.7
58.5°	122.8	122.6	123.1	124.4	126.4	128.5
59°	120.7	120.5	120.9	122.2	124.3	126.6
59.5°	118.5	118.3	118.8	120.1	122.1	124.3
60°	116.4	116.1	116.5	118.0	120.0	122.2
60.5°	114.2	113.9	114.5	115.8	117.8	120.0
61°	112.1	111.8	112.2	113.7	115.5	117.9
61.5°	109.9	109.8	110.2	111.5	113.5	115.7
62°	107.8	107.5	107.9	109.3	111.3	113.5
62.5°	105.6	105.2	105.7	107.1	109.1	111.3
63°	103.4	103.1	103.5	105.0	106.8	109.2
63.5°	101.1	100.8	101.3	102.7	104.7	106.8
64°	99.0	98.7	99.1	100.6	102.4	104.8
64.5°	96.8	96.5	97.0	98.4	100.3	102.6
65°	94.5	94.3	94.7	96.2	98.0	100.4
65.5°	92.5	92.2	92.7	93.9	96.0	98.1
66°	90.3	90.0	90.4	92.0	93.6	96.0



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	83.6	83.2	83.7	85.3	87.4	89.5
68°	81.4	81.1	81.5	83.1	85.2	87.5
68.5°	79.2	78.9	79.4	80.9	83.1	85.2
69°	77.1	76.7	77.1	78.7	80.8	83.1
69.5°	74.9	74.4	74.9	76.4	78.7	80.8
70°	72.8	72.3	72.7	74.3	76.6	78.7
70.5°	70.6	70.1	70.5	72.1	74.4	76.5
71°	68.5	67.9	68.2	69.9	72.2	74.4
71.5°	66.2	65.6	66.1	67.7	70.1	72.2
72°	64.0	63.5	63.9	65.6	67.8	70.0
72.5°	61.8	61.3	61.8	63.4	65.6	67.7
73°	59.7	59.2	59.7	61.2	63.4	65.6
73.5°	57.5	57.0	57.6	59.0	61.2	63.4
74°	55.5	54.9	55.4	57.1	59.0	61.3
74.5°	53.2	52.7	53.4	54.8	57.1	59.1
75°	51.1	50.6	51.1	52.7	54.8	57.0
75.5°	48.9	48.4	49.1	50.6	52.8	54.9
76°	47.0	46.3	46.9	48.5	50.5	52.8
76.5°	44.9	44.1	44.9	46.3	48.4	50.6
77°	42.7	42.0	42.8	44.3	46.3	48.5
77.5°	40.8	40.1	40.8	42.2	44.1	46.4
78°	38.7	37.9	38.6	40.3	42.1	44.3
78.5°	36.6	35.9	36.6	38.2	40.1	42.3
79°	34.7	33.9	34.7	36.2	38.0	40.4
79.5°	32.8	31.9	32.6	34.1	36.2	38.3
80°	30.7	29.8	30.6	32.1	34.1	36.2
80.5°	28.7	27.9	28.7	30.1	32.1	34.2
81°	26.9	26.0	26.8	28.3	30.2	32.3
81.5°	25.0	24.1	24.9	26.4	28.2	30.3
82°	23.1	22.5	23.3	24.6	26.3	28.4
82.5°	21.5	20.6	21.4	22.9	24.6	26.6
83°	19.7	18.8	19.5	21.1	22.9	24.6
83.5°	17.9	17.0	17.8	19.3	21.1	22.9
84°	16.1	15.2	16.0	17.5	19.4	21.2
84.5°	14.4	13.6	14.3	15.8	17.6	19.4
85°	12.7	11.8	12.6	14.1	15.8	17.6
85.5°	11.1	10.2	10.9	12.4	14.2	15.9
86°	9.4	8.5	9.3	10.7	12.5	14.1
86.5°	7.9	6.9	7.6	9.1	10.8	12.5
87°	6.3	5.4	6.1	7.5	9.2	10.8
87.5°	4.9	4.0	4.7	6.0	7.6	9.2
88°	3.5	2.8	3.4	4.5	6.1	7.6
88.5°	2.0	1.6	2.0	3.0	4.6	6.1



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.6	0.6	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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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	0.8	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	0.8	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	1.0
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	1.2	0.9
149.5°	0.7	0.9	0.9	1.0	1.2	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	1.2	1.1
152°	0.9	0.9	1.1	1.1	1.2	1.1
152.5°	0.9	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	0.9	1.2	1.1	1.2	1.1
154°	0.9	0.9	1.1	1.1	1.2	1.1
154.5°	0.9	0.9	1.2	1.1	1.2	1.1
155°	0.9	0.9	1.2	1.1	1.2	1.1
155.5°	1.0	0.9	1.2	1.1	1.2	1.1
156°	1.0	0.9	1.2	1.1	1.2	1.2



TEST NUMBER: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.1	0.9	1.2	1.1	1.2	1.2
158°	1.1	0.9	1.2	1.1	1.2	1.2
158.5°	1.0	0.9	1.2	1.1	1.2	1.2
159°	1.0	0.9	1.2	1.1	1.2	1.2
159.5°	1.1	0.9	1.2	1.1	1.2	1.2
160°	1.1	0.9	1.2	1.1	1.2	1.3
160.5°	1.1	0.9	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	1.1	1.1	1.2
165.5°	1.2	1.1	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: P417450

CATALOG NUMBER: SMD6S69SWH - 4000K

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°	245.3	245.5	245.8	246.0	246.4	246.1	245.4	244.8	244.3	243.6	243.1
22°	244.3	244.6	244.9	245.1	245.4	245.0	244.4	243.8	243.4	242.5	242.0



44°	184.5	185.0	185.2	185.5	186.3	185.2	184.4	183.4	182.9	181.1	180.0
44.5°	182.7	183.2	183.6	183.8	184.6	183.6	182.5	181.6	181.0	179.3	178.1



66.5°	93.7	94.8	95.3	95.4	96.7	95.3	94.2	93.1	92.4	90.4	88.8
67°	91.8	92.8	93.1	93.2	94.4	93.4	92.3	91.2	90.2	88.3	86.6



89°	4.9	5.5	5.6	5.5	5.9	5.7	5.2	4.7	4.1	2.8	1.4
89.5°	2.3	4.0	4.0	4.0	4.7	4.2	3.9	3.2	2.4	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°	1.2	1.2	1.1	1.1	0.7	1.0	1.0	0.9	1.1	0.9	0.9
157°	1.2	1.1	1.1	1.1	0.7	1.1	1.0	1.0	1.0	0.9	0.9



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	1.1	1.2	1.1





21.5°	242.9	242.8	243.0	243.6	244.2	245.3
22°	241.9	242.0	241.9	242.6	243.1	244.3



44°	179.5	179.8	179.9	181.1	182.5	184.5
44.5°	177.7	178.0	178.1	179.3	180.7	182.7



66.5°	88.0	87.7	88.3	89.8	91.7	93.7
67°	85.9	85.5	86.0	87.6	89.6	91.8



89°	0.8	0.8	1.0	1.5	3.1	4.9
89.5°	0.4	0.6	0.6	0.7	1.3	2.3



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	1.2	1.1	1.2	1.2
157°	1.0	0.9	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)