

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: P417435

Luminaire Tested: **SMD6R69SWH - 4000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2007930C001)
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R69SWH - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

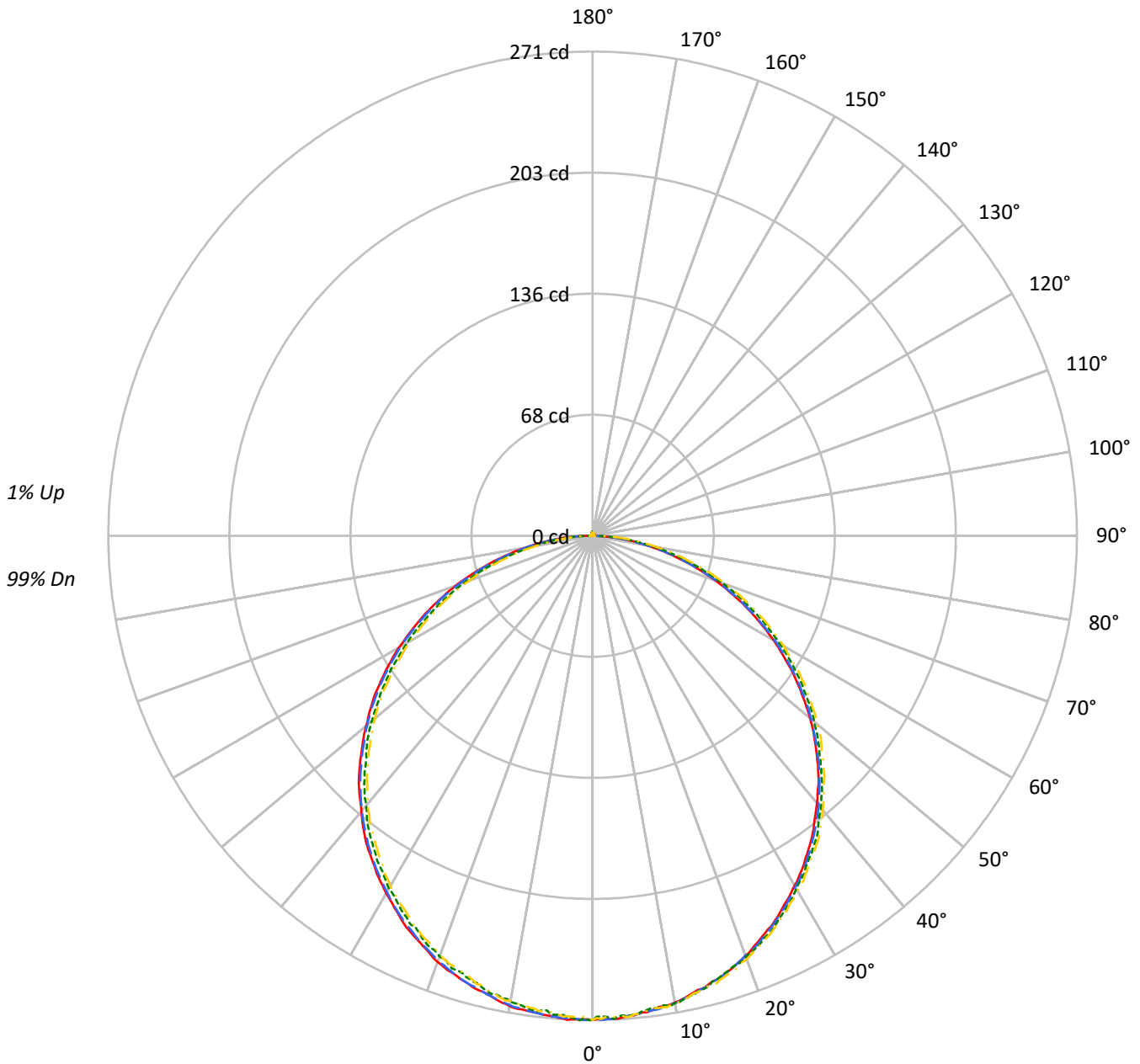
Lumens per Lamp: N/A
Luminaire Lumens: 787.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99																			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68																			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57																			
4	82	70	61	54	80	68	60	54	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14862	14862	14862	14862
5°	14830	14792	14841	14797
10°	14763	14779	14879	14740
15°	14660	14665	14824	14665
20°	14590	14631	14806	14614
25°	14469	14584	14723	14541
30°	14312	14439	14623	14439
35°	14168	14355	14542	14308
40°	13983	14227	14413	14112
45°	13777	14001	14312	13908
50°	13560	13808	14106	13756
55°	13199	13591	13945	13476
60°	12817	13266	13705	13113
65°	12323	12842	13400	12712
70°	11701	12326	13047	12182
75°	10845	11628	12560	11522
80°	9723	10797	11996	10671
85°	7988	9938	12077	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	3.2
10°-20°	73.1	9.3
20°-30°	110.8	14.1
30°-40°	133.8	17.0
40°-50°	139.2	17.7
50°-60°	126.6	16.1
60°-70°	97.6	12.4
70°-80°	58.0	7.4
80°-90°	17.7	2.3
90°-100°	0.4	0.1
100°-110°	0.4	0.1
110°-120°	0.6	0.1
120°-130°	0.7	0.1
130°-140°	0.8	0.1
140°-150°	0.7	0.1
150°-160°	0.6	0.1
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	209.5	26.6
0°-40°	343.3	43.6
0°-60°	609.1	77.4
0°-90°	782.5	99.4
90°-120°	1.4	0.2
90°-150°	3.6	0.5
90°-180°	5.0	0.6
0°-180°	787.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	271	271	271	271	271	
5°	270	269	270	269	270	26
15°	258	258	261	258	258	73
25°	239	241	243	240	239	110
35°	212	214	217	214	212	132
45°	178	181	185	179	178	137
55°	138	142	146	141	138	123
65°	95	99	103	98	95	94
75°	51	55	59	54	51	54
85°	13	16	19	16	13	14
90°	0	0	3	1	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	1	0	1	0	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	2	1	1	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1	271.1
0.5°	270.6	270.3	270.7	269.4	269.2	269.5	270.0	270.1	270.7	270.6	271.0
1°	270.8	270.5	271.1	269.5	269.1	269.7	270.5	269.3	270.7	270.8	271.1
1.5°	270.7	270.5	270.7	269.1	269.3	270.0	269.5	269.3	270.7	270.4	270.7
2°	270.6	270.0	270.7	269.1	269.8	269.8	269.8	269.2	270.9	270.3	270.5
2.5°	270.7	269.9	270.5	268.9	270.8	269.1	269.4	269.2	270.9	270.0	270.8
3°	270.7	269.7	270.3	268.7	269.2	269.8	270.2	268.5	271.3	269.8	270.5
3.5°	270.1	269.5	270.1	268.7	269.0	268.8	269.2	268.6	270.8	269.6	270.5
4°	269.9	269.3	269.6	269.1	269.2	268.1	270.1	269.3	270.6	269.4	270.3
4.5°	269.5	269.1	269.4	268.7	269.4	267.1	269.8	269.2	269.9	269.1	270.0
5°	269.5	268.8	269.2	268.1	268.8	267.1	268.8	269.0	269.7	268.8	270.0
5.5°	268.8	268.3	268.9	267.9	268.6	267.3	268.9	268.4	269.6	268.5	269.7
6°	268.3	267.9	268.8	267.6	267.5	267.3	268.7	269.1	269.5	268.4	269.4
6.5°	268.5	267.7	268.5	267.3	267.3	267.3	267.7	268.1	268.9	268.3	269.1
7°	267.8	267.1	267.7	266.9	266.5	267.5	267.7	268.1	268.7	267.9	268.8
7.5°	267.3	267.1	267.7	266.7	266.7	266.3	266.7	268.0	268.6	267.5	268.5
8°	266.4	266.7	267.5	266.6	266.7	266.9	266.9	267.1	268.3	267.3	268.3
8.5°	266.3	266.2	266.9	266.2	265.7	265.6	266.9	266.1	268.0	266.9	267.8
9°	266.2	265.6	266.5	265.6	266.2	265.0	267.1	265.9	268.1	266.9	267.5
9.5°	265.9	265.3	265.9	265.2	266.6	266.0	266.0	265.7	267.9	266.4	267.4
10°	265.2	264.8	265.6	264.8	265.5	264.6	265.4	265.5	267.3	266.1	266.7
10.5°	264.8	264.0	265.1	264.2	265.7	264.4	265.5	265.3	266.6	265.7	266.3
11°	264.1	263.5	264.4	263.8	264.5	263.9	264.1	264.6	266.2	265.1	265.7
11.5°	263.4	262.8	263.6	263.1	264.4	263.1	264.2	264.0	265.4	264.8	265.1
12°	262.6	262.5	263.4	262.6	263.2	263.6	263.1	263.6	264.7	264.2	264.5
12.5°	261.8	261.4	262.6	261.4	263.0	262.3	262.3	263.5	263.8	263.6	263.8
13°	260.9	260.5	261.6	260.4	261.9	261.6	262.2	262.3	263.3	262.8	263.4
13.5°	260.8	260.3	261.0	260.6	261.5	260.8	261.1	262.0	262.5	262.3	262.6
14°	260.4	259.7	260.6	259.8	260.9	259.7	261.0	260.9	262.3	261.7	262.1
14.5°	259.3	258.7	259.6	258.7	260.3	259.7	260.0	260.4	261.9	260.8	261.2
15°	258.3	258.0	259.0	258.0	258.4	259.4	259.9	260.3	261.2	260.3	260.7
15.5°	258.0	257.1	258.1	257.6	258.0	258.9	259.9	259.5	260.2	259.6	260.2
16°	257.4	256.4	257.6	257.2	257.3	258.2	258.6	259.2	259.7	259.1	259.4
16.5°	256.7	255.7	256.7	256.3	256.0	257.1	258.0	258.8	259.1	258.3	258.8
17°	255.7	254.5	255.8	255.1	255.5	256.4	257.0	257.9	258.1	257.5	257.9
17.5°	255.0	253.7	255.2	254.4	254.8	255.6	256.6	257.0	257.3	256.7	257.2
18°	254.2	252.7	254.1	253.5	253.7	254.3	256.0	256.2	256.7	255.7	256.3
18.5°	253.1	251.6	253.0	252.4	253.3	253.3	255.1	255.4	256.3	254.8	255.6
19°	252.0	250.6	252.1	251.3	252.9	252.7	253.4	254.8	255.4	254.0	254.6
19.5°	251.2	249.9	251.2	250.6	252.1	251.3	252.8	253.3	254.5	253.1	253.8
20°	250.1	248.5	250.0	249.6	250.8	250.8	252.3	252.2	253.8	252.3	252.9
20.5°	249.4	247.7	249.1	248.6	250.0	249.8	251.2	251.4	253.0	251.3	252.0
21°	248.1	246.8	248.3	247.5	249.3	248.6	250.1	250.4	251.6	250.7	250.9



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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°	244.7	243.8	245.5	244.7	246.3	246.0	247.2	247.5	248.5	247.5	247.8
23°	243.4	242.7	244.3	243.8	245.0	244.3	246.0	246.4	247.3	246.5	246.8
23.5°	242.3	241.5	243.2	242.8	244.1	244.6	245.0	245.4	246.3	245.4	245.8
24°	241.2	240.6	242.1	241.7	243.6	242.4	244.2	244.3	245.5	244.5	244.7
24.5°	240.4	239.5	241.0	240.6	242.4	242.2	243.0	243.5	244.4	243.6	243.5
25°	239.2	238.0	239.7	239.3	241.1	241.2	241.6	242.1	243.4	242.5	242.4
25.5°	238.0	236.9	238.6	238.1	239.8	240.2	240.9	240.9	242.6	241.4	241.6
26°	236.8	236.2	237.1	237.2	238.2	239.2	239.1	240.4	241.3	240.1	240.6
26.5°	235.3	234.6	236.1	236.1	237.2	238.0	238.2	239.2	239.9	239.0	239.2
27°	233.9	233.3	234.8	235.0	235.9	236.3	237.0	238.0	238.5	237.7	238.0
27.5°	232.5	232.3	233.6	233.6	235.0	235.0	235.9	236.8	237.2	236.6	236.7
28°	231.5	230.8	232.3	232.1	233.7	233.9	234.2	235.4	236.1	235.4	235.6
28.5°	230.3	229.7	231.0	230.8	232.5	232.7	233.1	234.0	234.5	234.1	234.3
29°	228.8	228.7	229.5	229.5	231.0	231.6	232.3	233.0	233.3	232.9	233.1
29.5°	227.4	227.2	228.2	228.3	229.5	229.9	231.0	231.8	232.2	231.7	231.5
30°	226.1	225.7	226.9	227.0	228.1	228.8	229.5	230.6	231.0	230.3	230.3
30.5°	225.0	224.5	225.8	226.1	226.7	227.5	228.0	229.1	229.7	229.1	229.0
31°	223.5	223.3	224.6	224.3	225.3	226.4	227.2	227.6	228.3	227.7	227.7
31.5°	222.0	222.1	223.2	223.0	224.3	225.1	226.0	226.1	227.1	226.4	226.2
32°	220.8	220.3	221.3	221.6	223.2	223.4	224.2	224.8	225.8	225.1	224.9
32.5°	219.4	218.8	220.1	220.3	221.4	221.6	223.0	223.7	224.5	223.8	223.6
33°	217.7	217.3	218.9	218.6	219.7	220.5	221.4	222.0	223.0	222.3	222.3
33.5°	216.1	216.1	217.3	217.0	218.4	218.5	220.1	220.3	221.4	221.0	220.8
34°	214.7	214.7	215.8	215.5	217.1	217.4	218.4	219.3	220.0	219.7	219.4
34.5°	213.1	213.2	214.4	213.9	216.3	215.6	217.1	217.8	218.7	218.2	218.0
35°	211.7	211.6	212.9	212.5	214.5	214.2	216.2	216.5	217.3	216.6	216.5
35.5°	210.3	210.3	211.3	210.9	213.0	213.3	214.7	215.0	216.1	215.2	215.1
36°	208.8	208.8	209.7	209.4	211.9	211.8	213.2	213.3	214.6	213.8	213.7
36.5°	207.1	207.1	208.3	208.0	210.5	210.2	212.0	211.6	213.2	212.5	212.0
37°	205.5	205.5	206.6	206.4	209.0	208.4	210.5	210.1	211.6	210.9	210.4
37.5°	203.6	203.8	205.0	204.9	207.3	206.7	208.8	208.4	209.8	209.2	208.8
38°	201.8	202.0	203.4	203.2	205.1	205.3	207.1	207.0	208.2	207.2	207.2
38.5°	200.1	200.3	201.7	201.7	203.3	204.1	205.6	205.5	206.6	205.6	205.8
39°	198.5	198.7	200.1	200.0	201.7	202.4	203.8	203.7	205.0	204.0	204.3
39.5°	197.0	197.1	198.6	198.3	200.5	200.8	202.0	202.1	203.1	202.4	202.5
40°	195.4	195.1	196.7	196.6	198.8	199.2	200.3	200.7	201.4	200.7	200.7
40.5°	193.8	193.6	194.8	195.0	197.1	197.6	198.8	199.0	199.4	199.1	199.0
41°	191.9	191.8	193.3	193.3	195.1	195.7	196.9	197.2	198.0	197.3	197.6
41.5°	190.2	190.2	191.5	191.6	193.3	194.0	195.5	195.6	196.5	195.6	195.7
42°	188.7	188.2	189.7	189.8	191.8	192.0	193.5	193.8	195.0	194.0	194.1
42.5°	187.3	186.9	188.0	188.0	189.9	190.2	191.5	192.1	193.4	192.4	192.3
43°	185.3	185.0	186.0	186.4	188.3	188.6	189.6	190.4	191.7	190.7	190.5
43.5°	183.5	183.0	184.2	184.6	186.2	186.8	188.3	188.6	190.1	189.0	188.8



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CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	177.7	177.7	178.8	178.9	180.6	181.4	182.7	183.0	184.6	183.7	183.3
45.5°	176.0	175.9	176.8	177.2	178.7	179.5	181.0	181.2	182.6	181.8	181.5
46°	174.2	173.8	174.8	175.4	176.7	177.9	179.1	179.5	180.7	180.1	179.8
46.5°	172.2	172.0	173.0	173.6	174.7	176.3	177.1	177.4	178.6	178.3	177.9
47°	170.4	170.0	171.2	171.6	173.3	174.1	175.2	175.7	176.8	176.3	176.0
47.5°	168.5	168.0	169.3	169.7	171.2	172.3	173.8	173.7	175.0	174.4	174.0
48°	166.7	166.2	167.4	167.6	169.5	170.4	171.9	172.2	173.2	172.6	172.0
48.5°	164.8	164.1	165.3	165.6	167.8	168.8	170.7	170.4	171.2	170.8	170.1
49°	163.0	162.4	163.4	163.6	165.7	167.1	168.1	168.5	169.5	168.8	168.4
49.5°	160.8	160.4	161.5	161.9	163.6	165.0	166.3	166.8	167.4	166.9	166.6
50°	159.0	158.6	159.6	160.0	161.9	163.2	164.1	164.8	165.4	165.0	164.7
50.5°	156.8	156.5	157.7	158.0	160.2	161.4	162.4	163.0	163.3	163.0	162.9
51°	154.7	154.5	155.9	155.9	158.2	159.3	160.8	161.1	161.7	161.2	160.7
51.5°	152.6	152.6	153.9	153.9	156.3	157.5	158.4	159.1	159.7	159.2	158.9
52°	150.7	150.6	151.7	151.9	154.3	155.5	156.2	157.0	158.0	157.6	157.1
52.5°	148.3	148.7	149.6	149.9	152.0	153.3	154.2	154.8	156.0	155.7	155.0
53°	146.5	146.7	147.4	147.7	150.0	151.4	152.4	153.2	154.1	153.8	152.9
53.5°	144.6	144.5	145.3	145.7	148.0	149.5	150.3	151.6	152.3	151.7	150.9
54°	142.3	142.5	143.5	143.8	145.9	147.2	148.5	149.5	150.2	149.7	148.7
54.5°	140.1	140.1	141.5	141.7	144.2	145.4	146.7	147.3	148.1	147.5	146.8
55°	138.1	138.1	139.4	139.8	142.2	143.1	144.7	145.5	145.9	145.4	144.9
55.5°	136.2	136.3	137.2	137.6	139.9	140.9	142.2	143.2	143.8	143.4	142.5
56°	134.1	134.0	135.1	135.3	137.8	139.0	140.3	140.9	141.7	141.4	140.6
56.5°	131.8	131.9	133.0	133.4	135.7	137.0	138.4	138.7	139.7	139.1	138.6
57°	129.6	129.5	130.8	131.1	133.6	134.5	136.2	136.8	137.7	137.0	136.5
57.5°	127.4	127.4	128.8	129.0	131.6	132.5	134.1	134.5	135.8	134.9	134.3
58°	125.4	125.3	126.6	126.9	129.6	130.5	131.6	132.6	133.5	132.8	132.2
58.5°	123.2	123.0	124.5	124.8	127.5	128.5	129.4	130.5	131.4	130.5	130.0
59°	121.3	120.9	122.3	122.7	125.2	126.4	127.3	128.4	129.3	128.3	128.0
59.5°	119.0	118.9	120.1	120.6	123.1	124.2	125.4	126.3	127.3	126.3	126.0
60°	116.9	117.0	117.9	118.5	121.0	121.9	123.7	124.3	125.0	124.2	123.9
60.5°	114.8	114.7	115.6	116.2	118.9	119.8	121.1	122.0	122.6	121.9	121.7
61°	112.4	112.5	113.4	114.0	116.7	117.9	118.8	120.0	120.4	119.8	119.5
61.5°	110.5	110.4	111.2	111.9	114.2	115.5	116.7	117.9	118.3	117.8	117.1
62°	108.1	108.2	109.0	109.7	112.3	113.5	114.6	115.7	116.2	115.7	115.0
62.5°	105.9	106.0	106.7	107.4	110.0	111.2	112.3	113.1	114.0	113.5	112.9
63°	103.6	103.7	104.5	105.3	108.3	108.9	110.4	111.0	111.7	111.5	110.6
63.5°	101.7	101.5	102.4	103.1	106.1	106.8	108.2	108.9	109.6	109.2	108.5
64°	99.4	99.2	100.2	100.8	103.8	104.3	106.1	106.7	107.4	106.9	106.3
64.5°	97.2	97.1	98.0	98.6	101.3	102.2	103.6	104.3	105.3	104.9	104.3
65°	95.0	94.8	95.7	96.5	99.0	99.9	101.5	102.2	103.3	102.7	102.1
65.5°	93.1	92.9	93.6	94.2	96.8	97.9	99.3	100.0	101.0	100.6	99.9
66°	90.9	90.5	91.4	92.2	94.8	95.6	97.3	97.9	98.7	98.2	97.5



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	83.9	84.2	84.7	85.4	88.3	89.7	90.7	91.4	92.2	91.8	91.3
68°	81.8	81.9	82.5	83.3	86.1	87.2	88.5	89.1	89.9	89.5	89.1
68.5°	79.6	79.7	80.3	81.1	83.8	84.9	86.1	87.2	87.9	87.3	86.8
69°	77.3	77.6	78.2	78.9	81.6	82.6	84.1	84.9	85.7	84.9	84.6
69.5°	75.1	75.4	76.0	76.6	79.1	80.4	81.7	82.8	83.5	82.7	82.4
70°	73.0	73.0	73.7	74.3	76.9	77.9	79.5	80.7	81.4	80.5	80.2
70.5°	70.6	71.1	71.5	72.2	74.7	75.9	77.4	78.5	79.2	78.3	77.9
71°	68.3	68.5	69.1	70.0	72.7	73.5	75.1	76.1	76.9	76.2	75.6
71.5°	66.1	66.3	66.9	67.7	70.3	71.3	72.8	73.7	74.7	74.0	73.3
72°	64.1	64.3	64.7	65.5	67.9	69.2	70.6	71.6	72.4	71.8	71.2
72.5°	61.9	62.0	62.5	63.3	65.7	66.9	68.5	69.4	70.2	69.7	68.9
73°	59.6	59.8	60.2	61.1	63.6	64.7	66.2	67.2	67.9	67.5	66.7
73.5°	57.6	57.7	58.3	58.8	61.4	62.6	63.8	65.0	65.8	65.2	64.5
74°	55.5	55.4	56.0	56.9	59.3	60.4	61.6	62.9	63.5	63.0	62.3
74.5°	53.5	53.4	54.1	54.7	57.4	58.3	59.5	60.5	61.3	60.9	60.2
75°	51.2	51.4	51.7	52.5	54.9	56.1	57.6	58.4	59.3	58.8	58.0
75.5°	48.9	49.1	49.8	50.4	52.8	54.2	55.3	56.2	57.3	56.7	56.2
76°	46.9	46.8	47.6	48.3	50.7	51.9	53.2	54.0	55.0	54.5	53.8
76.5°	45.1	44.8	45.5	46.2	48.7	49.8	51.2	52.1	52.8	52.3	51.6
77°	42.8	42.7	43.4	44.0	46.6	47.8	49.1	49.8	50.6	50.3	49.6
77.5°	40.9	40.9	41.3	42.0	44.4	45.7	47.1	47.9	48.6	48.2	47.5
78°	38.5	38.6	39.3	39.9	42.4	43.4	44.9	45.8	46.5	46.1	45.4
78.5°	36.7	36.6	37.2	37.9	40.4	41.5	42.7	43.7	44.3	43.9	43.4
79°	34.7	34.7	35.1	35.8	38.3	39.4	40.8	41.5	42.2	41.9	41.2
79.5°	32.8	32.7	33.1	33.9	36.3	37.4	38.6	39.7	39.9	40.0	39.1
80°	30.8	30.8	31.1	31.9	34.2	35.4	36.5	37.5	38.0	37.9	37.1
80.5°	28.9	28.7	29.1	29.9	32.2	33.4	34.3	35.5	36.1	35.9	35.3
81°	27.0	26.9	27.2	28.0	30.3	31.6	32.5	33.5	34.1	33.9	33.2
81.5°	25.1	25.0	25.3	26.0	28.3	29.5	30.7	31.7	32.2	31.9	31.3
82°	23.4	23.3	23.6	24.4	26.4	27.6	28.6	29.8	30.2	30.0	29.3
82.5°	21.6	21.5	21.8	22.5	24.6	25.7	26.9	27.9	28.2	28.1	27.5
83°	19.7	19.6	20.1	20.7	22.8	23.7	25.1	26.3	26.3	26.3	25.6
83.5°	17.8	17.9	18.3	18.9	21.1	22.3	23.1	24.0	24.6	24.4	23.7
84°	16.1	16.0	16.4	17.0	19.3	20.4	21.5	22.4	22.8	22.7	22.1
84.5°	14.5	14.3	14.7	15.3	17.7	18.7	19.7	20.9	21.1	20.9	20.3
85°	12.7	12.5	12.9	13.7	15.8	17.0	18.0	18.8	19.2	19.2	18.5
85.5°	11.1	10.9	11.2	11.8	14.0	15.1	16.1	17.1	17.6	17.4	16.9
86°	9.3	9.3	9.6	10.2	12.4	13.6	14.5	15.3	15.8	15.7	15.0
86.5°	7.9	7.5	8.0	8.6	10.7	11.8	12.8	13.6	13.9	13.9	13.3
87°	6.1	6.1	6.4	7.1	9.1	10.2	11.2	11.9	12.4	12.1	11.7
87.5°	4.8	4.8	5.0	5.8	7.5	8.7	9.6	10.2	10.6	10.6	10.0
88°	3.3	3.3	3.6	4.1	6.0	7.1	8.0	8.7	9.0	9.2	8.4
88.5°	1.8	1.7	1.9	2.4	4.5	5.6	6.5	7.1	7.4	7.4	6.8



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.5	0.1	0.5	0.4	0.4	0.7	1.9	2.8	3.0	2.8	2.4
90.5°	0.5	0.1	0.4	0.3	0.4	0.3	0.5	0.8	1.1	1.3	0.9
91°	0.4	0.1	0.4	0.4	0.4	0.4	0.4	0.1	0.3	0.5	0.4
91.5°	0.4	0.1	0.4	0.4	0.3	0.3	0.4	0.1	0.3	0.4	0.3
92°	0.4	0.1	0.4	0.5	0.3	0.3	0.3	0.1	0.3	0.4	0.3
92.5°	0.4	0.1	0.4	0.1	0.3	0.3	0.3	0.1	0.3	0.3	0.3
93°	0.4	0.1	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
93.5°	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
94°	0.4	0.2	0.4	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3
94.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.3	0.3
95°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.3	0.3
95.5°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.3	0.3
96°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.4	0.3
96.5°	0.4	0.2	0.4	0.3	0.3	0.4	0.3	0.1	0.3	0.4	0.3
97°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.4	0.3
97.5°	0.4	0.2	0.4	0.1	0.4	0.4	0.3	0.1	0.3	0.5	0.3
98°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.1	0.3	0.4	0.3
98.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.2	0.3	0.4	0.3
99°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.3	0.3	0.4	0.3
99.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.4	0.4	0.3	0.4	0.4
100°	0.4	0.2	0.4	0.1	0.3	0.4	0.3	0.3	0.3	0.4	0.4
100.5°	0.4	0.2	0.4	0.1	0.3	0.4	0.5	0.3	0.3	0.4	0.4
101°	0.4	0.2	0.4	0.3	0.3	0.4	0.5	0.3	0.3	0.4	0.4
101.5°	0.4	0.2	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.4
102°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.4	0.3	0.4	0.4
102.5°	0.4	0.2	0.4	0.5	0.3	0.5	0.4	0.5	0.3	0.4	0.4
103°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.3	0.4	0.4
103.5°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
104°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
104.5°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
105°	0.4	0.2	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
105.5°	0.4	0.3	0.4	0.4	0.3	0.5	0.4	0.5	0.4	0.4	0.4
106°	0.4	0.2	0.4	0.5	0.4	0.6	0.5	0.5	0.5	0.5	0.4
106.5°	0.4	0.2	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5
107°	0.4	0.4	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
107.5°	0.4	0.3	0.4	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
108°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
108.5°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
109°	0.4	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6
109.5°	0.4	0.3	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6
110°	0.4	0.3	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
110.5°	0.5	0.4	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5
111°	0.5	0.4	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.7	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5
113°	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.7	0.5	0.5	0.5
113.5°	0.7	0.7	0.6	0.6	0.5	0.7	0.5	0.7	0.6	0.5	0.5
114°	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.7	0.7	0.5	0.5
114.5°	0.7	0.9	0.6	0.6	0.5	0.7	0.5	0.7	0.6	0.5	0.5
115°	0.7	0.7	0.6	0.7	0.5	0.7	0.6	0.7	0.6	0.5	0.5
115.5°	0.7	0.7	0.6	0.8	0.5	0.7	0.6	0.7	0.7	0.5	0.5
116°	0.7	0.8	0.6	0.4	0.5	0.7	0.7	0.7	0.7	0.5	0.6
116.5°	0.8	0.9	0.6	0.9	0.5	0.7	0.7	0.7	0.7	0.5	0.6
117°	0.7	1.0	0.8	0.9	0.5	0.7	0.6	0.7	0.7	0.6	0.6
117.5°	1.0	1.0	0.8	0.6	0.5	0.7	0.6	0.7	0.7	0.6	0.6
118°	1.0	0.9	0.8	0.9	0.5	0.7	0.7	0.7	0.7	0.5	0.7
118.5°	1.0	1.0	0.8	0.9	0.5	0.8	0.7	0.7	0.7	0.6	0.7
119°	1.0	1.0	0.8	0.5	0.5	0.8	0.7	0.7	0.7	0.6	0.7
119.5°	1.0	1.0	0.8	0.5	0.6	0.7	0.7	0.7	0.7	0.7	0.7
120°	1.0	1.0	0.9	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
120.5°	1.0	1.0	0.9	0.6	0.5	0.7	0.7	0.7	0.7	0.7	0.7
121°	1.0	1.0	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7
121.5°	1.0	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
122°	0.8	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
122.5°	1.0	0.9	0.8	0.8	0.6	0.7	0.7	0.7	0.8	0.7	0.8
123°	1.1	1.0	0.8	1.0	0.6	0.7	0.7	0.7	0.8	0.7	0.8
123.5°	1.0	1.0	0.8	1.0	0.6	0.7	0.7	0.7	0.8	0.7	0.8
124°	1.1	1.2	0.8	0.8	0.6	0.7	0.7	0.7	0.8	0.7	0.8
124.5°	1.0	1.0	0.8	0.9	0.6	0.7	0.7	0.7	0.8	0.6	0.8
125°	1.2	1.0	0.8	0.9	0.6	0.8	0.7	0.7	0.8	0.7	0.8
125.5°	1.0	1.1	0.8	0.9	0.6	0.8	0.7	0.7	0.9	0.7	0.8
126°	1.1	1.0	0.8	0.9	0.6	0.8	0.8	0.7	0.9	0.8	0.8
126.5°	1.2	1.0	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.7	0.8
127°	1.1	1.0	0.8	1.0	0.7	0.8	0.9	0.7	0.8	0.7	0.8
127.5°	1.1	1.1	0.9	1.0	0.6	0.8	0.8	0.7	0.9	0.8	0.8
128°	1.2	1.1	0.9	1.0	0.6	0.8	0.8	0.7	0.9	0.9	0.8
128.5°	1.2	1.0	0.9	1.0	0.6	0.9	0.8	0.7	0.9	0.9	0.8
129°	1.2	1.0	1.0	1.0	0.7	0.9	0.8	0.7	1.0	1.0	0.8
129.5°	1.2	1.2	1.0	1.0	0.7	0.9	0.8	0.7	0.9	0.9	0.8
130°	1.2	1.0	1.0	1.0	0.7	0.9	0.8	0.7	1.1	0.9	0.8
130.5°	1.2	1.0	1.0	1.0	0.7	0.9	0.8	0.8	0.6	0.8	0.8
131°	1.2	1.0	1.0	0.8	0.7	0.9	0.9	0.8	0.7	0.8	0.8
131.5°	1.2	1.1	1.0	0.9	0.7	0.9	0.8	0.7	0.5	0.9	0.8
132°	1.2	1.1	1.0	1.0	0.7	0.9	1.0	0.7	0.6	0.9	0.8
132.5°	1.2	1.2	1.0	0.8	0.7	0.9	1.0	0.7	0.8	0.7	0.8
133°	1.2	1.2	1.0	0.9	0.7	0.9	1.0	0.7	0.8	0.8	0.8
133.5°	1.2	1.2	1.0	0.9	0.8	0.9	1.0	0.8	0.9	0.8	0.8



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.2	1.2	1.0	0.8	0.8	0.9	1.0	0.7	1.0	1.0	0.8
135.5°	1.2	1.2	1.0	0.9	0.8	0.9	1.0	0.9	1.0	0.9	0.9
136°	1.2	1.2	1.0	0.9	0.9	0.9	1.0	0.9	1.0	0.9	0.9
136.5°	1.2	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
137°	1.2	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
137.5°	1.2	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
138°	1.2	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
138.5°	1.2	1.2	1.0	1.0	0.8	0.9	1.0	0.8	1.0	0.9	1.0
139°	1.2	1.2	1.1	1.0	0.9	0.9	1.0	0.8	1.0	0.9	1.0
139.5°	1.2	1.2	1.2	1.0	0.9	0.9	1.0	0.8	0.9	1.0	1.0
140°	1.2	1.2	1.2	1.1	0.9	0.9	1.0	0.8	0.9	1.0	1.0
140.5°	1.2	1.2	1.1	1.0	0.9	1.0	1.0	0.8	0.9	0.9	1.0
141°	1.2	1.2	1.1	1.1	0.9	1.0	1.1	0.8	0.9	0.8	1.0
141.5°	1.2	1.2	1.1	1.1	0.9	0.9	1.1	0.8	0.9	1.0	1.0
142°	1.2	1.2	1.1	1.0	0.9	0.9	1.1	0.8	0.9	0.9	1.0
142.5°	1.2	1.2	1.1	1.0	0.9	0.9	1.1	0.9	1.0	1.0	1.0
143°	1.2	1.2	1.2	1.1	0.9	0.9	1.1	0.9	0.9	1.0	1.0
143.5°	1.2	1.2	1.2	1.0	0.9	0.9	1.1	0.9	1.1	1.1	1.0
144°	1.2	1.2	1.2	1.0	0.9	0.9	1.1	0.9	1.1	1.2	1.0
144.5°	1.2	1.2	1.2	1.2	0.9	0.9	1.0	1.0	1.0	1.2	1.0
145°	1.2	1.2	1.2	1.2	0.9	0.9	1.0	1.0	1.0	1.1	1.0
145.5°	1.2	1.2	1.2	1.1	0.9	0.9	1.2	1.0	1.0	1.2	1.1
146°	1.2	1.2	1.2	1.0	0.9	0.9	1.2	1.0	1.0	1.2	1.2
146.5°	1.2	1.2	1.2	1.0	0.9	0.9	1.2	1.0	1.1	1.0	1.1
147°	1.2	1.2	1.2	1.1	0.9	0.9	1.2	1.2	1.1	1.2	1.2
147.5°	1.2	1.2	1.3	1.2	0.9	0.9	1.2	1.2	1.1	1.2	1.2
148°	1.2	1.2	1.3	1.1	0.9	0.9	1.2	1.1	1.1	1.2	1.1
148.5°	1.2	1.2	1.3	1.1	0.9	0.9	1.3	1.1	1.1	1.1	1.1
149°	1.2	1.2	1.3	1.1	0.9	0.9	1.3	1.1	1.2	1.2	1.2
149.5°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.2	1.2
150°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.2	1.2
150.5°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.1	1.2	1.2
151°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.2	1.2
151.5°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.3	1.2
152°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.3	1.2
152.5°	1.2	1.2	1.3	1.1	1.1	0.8	1.3	1.1	1.2	1.4	1.2
153°	1.2	1.2	1.3	1.1	1.0	0.9	1.2	1.1	1.2	1.4	1.2
153.5°	1.2	1.2	1.3	1.1	1.1	0.9	1.2	1.1	1.2	1.4	1.3
154°	1.2	1.2	1.3	1.1	1.1	1.7	1.4	1.1	1.2	1.4	1.3
154.5°	1.2	1.2	1.3	1.1	1.1	1.2	1.4	1.1	1.2	1.4	1.3
155°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.3	1.4	1.4
155.5°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.4
156°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.4



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.4
158°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.4	1.5	1.4
158.5°	1.2	1.2	1.3	1.1	1.1	1.2	1.3	1.2	1.6	1.5	1.4
159°	1.3	1.2	1.3	1.1	1.1	1.2	1.3	1.1	1.5	1.5	1.4
159.5°	1.3	1.2	1.3	1.1	1.1	1.3	1.3	1.1	1.6	1.6	1.4
160°	1.3	1.2	1.3	1.1	1.1	1.3	1.3	1.4	1.6	1.6	1.4
160.5°	1.4	1.3	1.3	1.1	1.1	1.4	1.3	1.3	1.7	1.6	1.4
161°	1.3	1.2	1.3	1.1	1.1	1.3	1.3	1.4	1.6	1.7	1.4
161.5°	1.3	1.2	1.3	1.1	1.1	1.3	1.4	1.5	1.8	1.7	1.4
162°	1.4	1.2	1.3	1.1	1.1	1.4	1.4	1.5	1.8	1.6	1.4
162.5°	1.4	1.3	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.7	1.4
163°	1.4	1.3	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.6	1.4
163.5°	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.5	1.6	1.6	1.4
164°	1.4	1.3	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.6	1.4
164.5°	1.4	1.5	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.6	1.4
165°	1.4	1.5	1.3	1.1	1.1	1.4	1.4	1.5	1.5	1.6	1.4
165.5°	1.4	1.4	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.4
166°	1.4	1.4	1.3	1.1	1.1	1.5	1.4	1.5	1.5	1.6	1.4
166.5°	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.5	1.6	1.6	1.4
167°	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.5	1.6	1.6	1.4
167.5°	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.5	1.9	1.6	1.4
168°	1.4	1.4	1.3	1.1	1.1	1.4	1.4	1.5	2.1	1.6	1.4
168.5°	1.4	1.4	1.3	1.1	1.2	1.4	1.4	1.5	1.6	1.6	1.4
169°	1.4	1.4	1.3	1.1	1.2	1.4	1.4	1.5	1.6	1.6	1.4
169.5°	1.4	1.4	1.3	1.1	1.2	1.4	1.4	1.5	1.6	1.6	1.4
170°	1.4	1.4	1.3	1.1	1.2	1.4	1.4	1.5	1.6	1.6	1.4
170.5°	1.5	1.4	1.3	1.1	1.4	1.4	1.4	1.5	1.6	1.6	1.4
171°	1.4	1.4	1.3	1.1	1.4	1.6	1.4	1.5	1.6	1.6	1.4
171.5°	1.4	1.4	1.3	1.1	1.4	1.6	1.4	1.5	1.6	1.6	1.4
172°	1.4	1.4	1.3	1.1	1.4	1.6	1.4	1.5	1.6	1.4	1.4
172.5°	1.4	1.4	1.3	1.1	1.4	1.6	1.6	1.5	1.6	1.5	1.4
173°	1.4	1.4	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.4	1.4
173.5°	1.4	1.4	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.4	1.4
174°	1.4	1.4	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.4	1.4
174.5°	1.4	1.4	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.4	1.4
175°	1.4	1.4	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.4	1.4
175.5°	1.4	1.4	1.3	1.1	1.4	1.6	1.5	1.5	1.6	1.4	1.4
176°	1.4	1.4	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.4	1.4
176.5°	1.4	1.4	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.4	1.4
177°	1.4	1.4	1.3	1.1	1.3	1.6	1.5	1.5	1.6	1.4	1.4
177.5°	1.4	1.4	1.3	1.1	1.1	1.6	1.6	1.6	1.6	1.4	1.4
178°	1.4	1.4	1.3	1.1	1.2	1.6	1.6	1.5	1.6	1.4	1.4
178.5°	1.4	1.4	1.3	1.2	1.1	1.6	1.6	1.5	1.6	1.4	1.4



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	271.1	271.1	271.1	271.1	271.1	271.1
0.5°	269.6	271.1	269.4	269.3	270.4	270.6
1°	269.7	270.1	269.6	269.0	270.1	270.8
1.5°	269.8	271.3	268.6	270.0	269.8	270.7
2°	269.5	270.8	269.2	269.5	269.3	270.6
2.5°	269.5	269.8	269.2	269.4	269.2	270.7
3°	269.4	270.2	269.1	269.3	269.5	270.7
3.5°	269.3	268.7	268.2	269.6	269.0	270.1
4°	268.9	268.8	268.8	268.8	268.5	269.9
4.5°	269.0	269.0	267.7	267.7	268.6	269.5
5°	268.6	268.9	268.1	267.6	268.6	269.5
5.5°	268.4	266.9	267.9	267.9	268.0	268.8
6°	268.3	266.9	268.0	267.5	268.1	268.3
6.5°	267.9	268.0	267.7	267.7	267.6	268.5
7°	267.5	267.8	267.1	266.7	267.0	267.8
7.5°	267.2	267.2	266.9	266.5	266.7	267.3
8°	266.7	266.9	266.9	266.1	266.7	266.4
8.5°	266.5	266.1	266.1	266.0	266.2	266.3
9°	266.0	265.4	264.8	265.4	265.7	266.2
9.5°	265.6	265.2	263.2	265.3	264.8	265.9
10°	265.3	264.8	263.6	264.2	264.1	265.2
10.5°	264.7	263.6	263.7	264.7	263.6	264.8
11°	264.2	263.8	262.7	264.0	263.4	264.1
11.5°	263.6	262.9	263.3	263.5	262.5	263.4
12°	262.9	262.3	261.3	262.3	262.7	262.6
12.5°	262.6	262.6	260.2	262.2	262.1	261.8
13°	262.0	261.7	260.0	260.7	260.8	260.9
13.5°	261.1	260.8	260.7	260.1	259.9	260.8
14°	260.5	259.7	259.0	259.1	259.6	260.4
14.5°	259.7	258.5	258.8	259.2	258.8	259.3
15°	259.0	258.4	257.6	257.7	257.9	258.3
15.5°	258.6	257.5	257.1	256.7	256.7	258.0
16°	257.7	256.9	255.9	255.6	256.0	257.4
16.5°	256.9	255.6	255.3	255.4	255.6	256.7
17°	256.1	255.0	254.3	254.4	255.2	255.7
17.5°	255.1	254.7	253.1	253.8	254.4	255.0
18°	254.4	254.7	252.8	253.1	253.5	254.2
18.5°	253.5	253.3	251.4	252.7	252.5	253.1
19°	252.8	251.5	250.6	251.6	251.2	252.0
19.5°	252.0	251.1	249.4	250.8	250.2	251.2
20°	250.9	250.5	249.6	249.4	249.1	250.1
20.5°	249.9	249.1	247.2	248.6	247.9	249.4
21°	249.0	248.1	247.4	246.8	247.1	248.1



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	245.9	245.8	243.4	244.4	244.0	244.7
23°	244.9	244.6	242.8	243.5	243.1	243.4
23.5°	244.0	242.6	241.7	242.3	242.1	242.3
24°	242.8	241.5	241.3	241.0	240.8	241.2
24.5°	241.6	240.0	239.4	240.2	239.8	240.4
25°	240.4	240.4	238.9	239.0	238.5	239.2
25.5°	239.5	239.2	238.1	237.3	236.9	238.0
26°	238.3	237.6	236.4	236.0	235.7	236.8
26.5°	237.2	236.6	235.6	234.8	234.6	235.3
27°	236.1	235.5	234.6	233.5	233.3	233.9
27.5°	234.9	233.9	233.5	232.5	232.2	232.5
28°	233.6	232.6	232.1	231.3	230.8	231.5
28.5°	232.5	231.1	230.8	229.9	229.3	230.3
29°	231.1	229.8	229.6	229.0	227.8	228.8
29.5°	229.6	228.7	228.3	227.8	226.9	227.4
30°	228.5	228.1	226.9	226.4	225.5	226.1
30.5°	227.4	226.5	225.5	224.7	224.2	225.0
31°	226.1	224.8	223.9	223.4	223.0	223.5
31.5°	224.4	223.4	222.4	222.1	221.4	222.0
32°	223.2	221.7	219.5	220.5	220.1	220.8
32.5°	221.8	220.6	218.6	218.7	218.7	219.4
33°	220.2	219.4	218.0	217.3	217.0	217.7
33.5°	218.9	218.3	216.0	215.8	215.4	216.1
34°	217.5	216.5	214.2	214.5	213.8	214.7
34.5°	215.9	214.9	213.6	212.9	212.7	213.1
35°	214.5	213.8	212.2	211.5	211.4	211.7
35.5°	213.1	211.9	210.7	210.0	209.8	210.3
36°	211.6	210.8	208.7	208.6	208.1	208.8
36.5°	209.9	209.2	206.3	207.0	206.5	207.1
37°	208.2	207.6	205.0	205.7	204.8	205.5
37.5°	206.7	206.2	204.3	204.3	203.1	203.6
38°	205.2	204.5	202.5	202.6	201.8	201.8
38.5°	203.8	202.8	201.3	200.6	200.2	200.1
39°	202.2	200.8	199.4	199.1	198.6	198.5
39.5°	200.5	198.8	197.4	197.6	197.0	197.0
40°	198.9	197.2	195.7	195.8	195.5	195.4
40.5°	197.3	195.6	193.7	194.0	193.9	193.8
41°	195.7	194.4	192.3	192.1	192.4	191.9
41.5°	193.8	192.7	190.9	190.3	190.3	190.2
42°	192.0	190.8	188.9	188.5	188.3	188.7
42.5°	190.3	189.3	186.9	186.8	186.4	187.3
43°	188.7	187.1	185.6	185.2	184.6	185.3
43.5°	186.9	185.4	184.2	183.5	183.1	183.5



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	181.6	179.4	178.9	177.6	177.5	177.7
45.5°	179.8	177.5	177.0	176.0	175.6	176.0
46°	177.9	176.2	175.2	174.2	173.9	174.2
46.5°	176.0	174.7	173.2	172.0	172.1	172.2
47°	174.0	172.7	171.2	170.1	170.1	170.4
47.5°	172.2	171.4	169.5	168.5	168.3	168.5
48°	170.3	169.2	167.2	166.5	166.2	166.7
48.5°	168.6	167.3	164.8	164.6	164.3	164.8
49°	166.8	165.5	163.2	162.7	162.3	163.0
49.5°	164.9	163.4	161.6	160.8	160.5	160.8
50°	163.0	161.3	159.9	159.1	158.5	159.0
50.5°	161.0	159.2	158.2	157.2	156.7	156.8
51°	159.1	157.3	156.2	155.2	154.6	154.7
51.5°	157.2	155.0	154.1	153.4	152.6	152.6
52°	155.2	153.0	152.1	151.4	150.4	150.7
52.5°	153.1	150.8	150.3	149.3	148.6	148.3
53°	151.0	149.3	147.9	147.1	146.6	146.5
53.5°	149.0	147.3	145.7	145.4	144.3	144.6
54°	147.0	145.3	143.4	143.0	142.5	142.3
54.5°	145.0	142.7	141.4	140.8	140.7	140.1
55°	143.1	141.0	139.3	138.7	138.5	138.1
55.5°	141.0	139.0	137.5	136.6	136.3	136.2
56°	138.7	137.0	135.2	134.5	134.0	134.1
56.5°	136.7	135.1	132.8	132.4	131.8	131.8
57°	134.6	132.8	131.1	130.2	129.8	129.6
57.5°	132.4	130.4	128.6	128.1	127.6	127.4
58°	130.3	128.2	126.8	125.9	125.5	125.4
58.5°	128.2	126.1	124.7	124.0	123.2	123.2
59°	126.2	124.0	122.7	122.2	121.0	121.3
59.5°	124.1	121.8	121.0	119.9	119.1	119.0
60°	122.0	119.6	118.7	117.6	116.7	116.9
60.5°	119.7	117.8	116.0	115.2	114.5	114.8
61°	117.6	115.9	113.7	113.0	112.3	112.4
61.5°	115.4	113.4	111.8	110.8	110.1	110.5
62°	113.2	111.6	109.4	108.6	107.9	108.1
62.5°	111.2	109.2	107.4	106.5	105.5	105.9
63°	109.0	106.9	105.3	104.1	103.5	103.6
63.5°	106.8	104.5	103.0	101.9	101.2	101.7
64°	104.8	102.4	101.0	99.7	99.2	99.4
64.5°	102.6	100.2	98.7	97.5	97.1	97.2
65°	100.5	98.0	96.4	95.5	94.7	95.0
65.5°	98.2	96.0	94.2	93.3	92.7	93.1
66°	95.9	93.6	91.8	91.4	90.6	90.9



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	89.8	86.9	86.0	84.7	83.8	83.9
68°	87.6	84.9	83.6	82.3	82.1	81.8
68.5°	85.2	82.8	81.4	80.3	79.8	79.6
69°	83.0	80.5	79.3	78.3	77.7	77.3
69.5°	80.9	78.2	76.9	75.8	75.1	75.1
70°	78.6	76.0	74.6	73.6	72.9	73.0
70.5°	76.3	74.0	72.6	71.4	70.8	70.6
71°	74.0	72.0	70.5	69.3	68.6	68.3
71.5°	71.8	69.8	68.1	67.1	66.5	66.1
72°	69.7	67.5	65.7	65.0	64.2	64.1
72.5°	67.5	65.3	63.5	62.9	62.1	61.9
73°	65.3	63.0	61.6	60.5	59.8	59.6
73.5°	63.0	60.6	59.5	58.5	57.7	57.6
74°	60.9	58.6	57.2	56.4	55.6	55.5
74.5°	58.6	56.5	55.1	54.3	53.6	53.5
75°	56.7	54.4	53.0	52.1	51.6	51.2
75.5°	54.4	52.3	51.0	49.9	49.3	48.9
76°	52.4	50.2	49.0	47.7	47.1	46.9
76.5°	50.2	47.9	46.8	45.7	44.9	45.1
77°	48.2	45.8	44.7	43.7	42.9	42.8
77.5°	46.0	43.8	42.6	41.5	40.9	40.9
78°	44.0	41.6	40.7	39.6	38.8	38.5
78.5°	41.8	39.7	38.5	37.4	36.9	36.7
79°	39.8	37.7	36.6	35.6	35.0	34.7
79.5°	37.8	35.9	34.5	33.7	33.3	32.8
80°	35.9	33.8	32.6	31.6	31.0	30.8
80.5°	34.0	31.9	30.7	29.7	29.0	28.9
81°	32.1	29.9	28.8	27.7	27.2	27.0
81.5°	30.1	28.1	27.0	26.0	25.4	25.1
82°	28.2	26.2	25.0	24.1	23.6	23.4
82.5°	26.3	24.4	23.3	22.6	21.7	21.6
83°	24.6	22.6	21.6	20.6	20.2	19.7
83.5°	22.8	20.9	19.8	19.0	18.2	17.8
84°	21.0	19.1	18.1	17.1	16.5	16.1
84.5°	19.3	17.4	16.4	15.5	14.9	14.5
85°	17.6	15.6	14.6	13.8	13.1	12.7
85.5°	15.9	13.9	12.9	11.9	11.3	11.1
86°	14.1	12.3	11.3	10.4	9.8	9.3
86.5°	12.5	10.7	9.8	8.9	8.2	7.9
87°	10.8	9.1	8.1	7.3	6.7	6.1
87.5°	9.3	7.6	6.7	5.8	5.1	4.8
88°	7.6	6.0	5.3	4.3	3.6	3.3
88.5°	6.1	4.6	3.8	2.9	2.3	1.8



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	1.8	0.9	0.6	0.6	0.5	0.5
90.5°	0.7	0.6	0.5	0.5	0.5	0.5
91°	0.3	0.5	0.5	0.5	0.5	0.4
91.5°	0.3	0.5	0.5	0.4	0.3	0.4
92°	0.3	0.5	0.5	0.4	0.3	0.4
92.5°	0.3	0.5	0.5	0.4	0.4	0.4
93°	0.3	0.5	0.5	0.4	0.3	0.4
93.5°	0.3	0.5	0.5	0.4	0.3	0.4
94°	0.3	0.5	0.5	0.4	0.3	0.4
94.5°	0.3	0.5	0.5	0.4	0.3	0.4
95°	0.3	0.5	0.5	0.4	0.3	0.4
95.5°	0.3	0.5	0.5	0.4	0.3	0.4
96°	0.3	0.5	0.5	0.4	0.3	0.4
96.5°	0.3	0.5	0.5	0.4	0.3	0.4
97°	0.3	0.5	0.5	0.4	0.3	0.4
97.5°	0.3	0.5	0.5	0.4	0.3	0.4
98°	0.3	0.5	0.5	0.4	0.3	0.4
98.5°	0.3	0.5	0.5	0.4	0.3	0.4
99°	0.3	0.5	0.5	0.4	0.3	0.4
99.5°	0.3	0.5	0.5	0.4	0.3	0.4
100°	0.3	0.5	0.5	0.4	0.3	0.4
100.5°	0.3	0.5	0.5	0.4	0.3	0.4
101°	0.3	0.5	0.5	0.4	0.3	0.4
101.5°	0.5	0.5	0.5	0.4	0.3	0.4
102°	0.5	0.5	0.5	0.4	0.3	0.4
102.5°	0.4	0.5	0.5	0.4	0.3	0.4
103°	0.5	0.5	0.5	0.4	0.3	0.4
103.5°	0.5	0.5	0.5	0.4	0.3	0.4
104°	0.5	0.5	0.5	0.4	0.3	0.4
104.5°	0.5	0.5	0.5	0.4	0.3	0.4
105°	0.5	0.5	0.5	0.4	0.3	0.4
105.5°	0.5	0.5	0.5	0.4	0.3	0.4
106°	0.5	0.5	0.5	0.4	0.3	0.4
106.5°	0.5	0.5	0.5	0.4	0.3	0.4
107°	0.5	0.5	0.5	0.4	0.3	0.4
107.5°	0.5	0.5	0.5	0.4	0.3	0.4
108°	0.5	0.5	0.5	0.4	0.3	0.4
108.5°	0.5	0.5	0.5	0.4	0.3	0.4
109°	0.5	0.5	0.5	0.4	0.3	0.4
109.5°	0.5	0.5	0.5	0.4	0.3	0.4
110°	0.5	0.5	0.5	0.4	0.3	0.4
110.5°	0.5	0.5	0.5	0.4	0.3	0.5
111°	0.5	0.5	0.5	0.4	0.3	0.5



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.5	0.5	0.5	0.4	0.3	0.6
113°	0.5	0.5	0.5	0.4	0.3	0.7
113.5°	0.6	0.5	0.5	0.4	0.3	0.7
114°	0.6	0.5	0.5	0.4	0.5	0.7
114.5°	0.6	0.5	0.5	0.4	0.4	0.7
115°	0.7	0.5	0.5	0.4	0.5	0.7
115.5°	0.7	0.5	0.5	0.4	0.5	0.7
116°	0.7	0.5	0.5	0.4	0.5	0.7
116.5°	0.7	0.5	0.6	0.5	0.5	0.8
117°	0.7	0.5	0.6	0.5	0.5	0.7
117.5°	0.7	0.5	0.7	0.6	0.6	1.0
118°	0.7	0.5	0.7	0.6	0.5	1.0
118.5°	0.7	0.6	0.8	0.6	0.7	1.0
119°	0.7	0.6	0.8	0.6	0.7	1.0
119.5°	0.8	0.6	0.9	0.6	0.7	1.0
120°	0.8	0.6	0.9	0.6	0.7	1.0
120.5°	0.7	0.6	1.0	0.6	0.7	1.0
121°	0.7	0.7	1.0	0.6	0.7	1.0
121.5°	0.7	0.7	1.0	0.6	0.7	1.0
122°	0.7	0.7	1.1	0.6	0.7	0.8
122.5°	0.7	0.8	1.2	0.6	0.7	1.0
123°	0.7	0.8	1.2	0.6	0.7	1.1
123.5°	0.7	1.1	1.1	0.7	0.7	1.0
124°	0.7	1.1	1.0	0.7	0.8	1.1
124.5°	0.7	1.1	1.1	0.7	0.8	1.0
125°	0.7	1.0	1.2	0.7	0.8	1.2
125.5°	0.7	1.0	1.2	0.7	0.7	1.0
126°	0.7	1.1	1.0	0.7	0.7	1.1
126.5°	0.7	1.1	1.1	0.7	0.8	1.2
127°	0.7	1.1	1.1	0.7	0.9	1.1
127.5°	0.7	1.1	1.2	0.7	0.9	1.1
128°	0.7	1.2	1.2	0.7	0.9	1.2
128.5°	0.8	1.1	1.2	0.7	0.9	1.2
129°	1.0	1.1	1.2	0.7	0.9	1.2
129.5°	1.0	1.2	1.2	0.7	0.9	1.2
130°	0.9	1.1	1.2	0.9	0.9	1.2
130.5°	0.8	1.2	1.2	1.0	0.9	1.2
131°	0.8	1.1	1.2	1.0	0.9	1.2
131.5°	0.9	1.1	1.2	1.1	0.9	1.2
132°	0.8	1.1	1.2	1.0	0.9	1.2
132.5°	0.8	1.2	1.2	1.2	0.9	1.2
133°	0.8	1.2	1.2	1.2	0.9	1.2
133.5°	0.8	1.2	1.1	1.2	0.9	1.2



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	1.2	1.2	1.2	1.2	1.2
135.5°	0.8	1.2	1.2	1.2	1.2	1.2
136°	0.8	1.2	1.2	1.2	1.0	1.2
136.5°	0.8	1.2	1.2	1.2	1.0	1.2
137°	0.8	1.2	1.2	1.2	1.0	1.2
137.5°	0.8	1.2	1.2	1.2	1.0	1.2
138°	0.8	1.2	1.2	1.2	1.0	1.2
138.5°	0.9	1.2	1.2	1.2	1.0	1.2
139°	0.9	1.2	1.2	1.2	1.0	1.2
139.5°	0.9	1.2	1.2	1.2	1.0	1.2
140°	0.9	1.2	1.2	1.2	1.0	1.2
140.5°	0.9	1.2	1.2	1.2	1.0	1.2
141°	0.9	1.2	1.2	1.2	1.0	1.2
141.5°	0.9	1.2	1.2	1.2	1.0	1.2
142°	0.9	1.2	1.2	1.2	1.1	1.2
142.5°	1.1	1.2	1.2	1.2	1.1	1.2
143°	1.0	1.2	1.2	1.2	1.1	1.2
143.5°	1.1	1.2	1.2	1.2	1.2	1.2
144°	1.1	1.2	1.2	1.2	1.2	1.2
144.5°	1.1	1.2	1.2	1.2	1.1	1.2
145°	1.1	1.2	1.2	1.2	1.1	1.2
145.5°	1.2	1.2	1.2	1.2	1.1	1.2
146°	1.2	1.2	1.2	1.2	1.1	1.2
146.5°	1.2	1.2	1.2	1.2	1.1	1.2
147°	1.2	1.2	1.2	1.2	1.1	1.2
147.5°	1.2	1.2	1.2	1.2	1.1	1.2
148°	1.2	1.2	1.2	1.2	1.1	1.2
148.5°	1.2	1.2	1.2	1.2	1.1	1.2
149°	1.2	1.2	1.2	1.2	1.1	1.2
149.5°	1.3	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2	1.2
150.5°	1.4	1.2	1.2	1.2	1.2	1.2
151°	1.4	1.2	1.2	1.4	1.2	1.2
151.5°	1.3	1.2	1.2	1.4	1.2	1.2
152°	1.3	1.2	1.2	1.3	1.2	1.2
152.5°	1.3	1.2	1.2	1.3	1.2	1.2
153°	1.3	1.2	1.2	1.3	1.2	1.2
153.5°	1.3	1.2	1.2	1.3	1.2	1.2
154°	1.3	1.2	1.2	1.3	1.3	1.2
154.5°	1.3	1.2	1.2	1.3	1.2	1.2
155°	1.3	1.2	1.2	1.3	1.2	1.2
155.5°	1.3	1.2	1.2	1.3	1.2	1.2
156°	1.3	1.2	1.2	1.3	1.2	1.2



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	1.2	1.2	1.3	1.3	1.2
158°	1.4	1.2	1.2	1.3	1.4	1.2
158.5°	1.4	1.2	1.2	1.3	1.3	1.2
159°	1.6	1.2	1.2	1.3	1.4	1.3
159.5°	1.6	1.2	1.2	1.3	1.4	1.3
160°	1.7	1.2	1.2	1.3	1.5	1.3
160.5°	1.3	1.2	1.2	1.3	1.6	1.4
161°	1.3	1.2	1.2	1.3	1.5	1.3
161.5°	1.3	1.2	1.2	1.3	1.5	1.3
162°	1.3	1.2	1.2	1.3	1.5	1.4
162.5°	1.3	1.2	1.2	1.3	1.5	1.4
163°	1.3	1.2	1.2	1.3	1.6	1.4
163.5°	1.3	1.2	1.2	1.3	1.6	1.4
164°	1.3	1.2	1.2	1.3	1.6	1.4
164.5°	1.3	1.2	1.2	1.3	1.8	1.4
165°	1.3	1.2	1.2	1.4	1.8	1.4
165.5°	1.3	1.2	1.3	1.4	1.7	1.4
166°	1.3	1.2	1.3	1.4	1.7	1.4
166.5°	1.3	1.2	1.3	1.6	1.7	1.4
167°	1.3	1.2	1.6	1.6	1.7	1.4
167.5°	1.3	1.3	1.6	1.6	1.7	1.4
168°	1.3	1.3	1.6	1.6	1.7	1.4
168.5°	1.3	1.3	1.6	1.7	1.7	1.4
169°	1.3	1.4	1.6	1.7	1.7	1.4
169.5°	1.3	1.4	1.7	1.7	1.7	1.4
170°	1.3	1.4	1.7	1.7	1.7	1.4
170.5°	1.3	1.4	1.8	1.8	1.7	1.5
171°	1.3	1.4	1.8	1.7	1.7	1.4
171.5°	1.3	1.6	1.8	1.7	1.7	1.4
172°	1.3	1.8	1.8	1.7	1.7	1.4
172.5°	1.3	1.9	2.0	1.7	1.7	1.4
173°	1.3	2.0	1.9	1.7	1.7	1.4
173.5°	1.3	2.0	2.0	1.7	1.8	1.4
174°	1.3	2.1	2.0	1.7	1.8	1.4
174.5°	1.3	2.2	2.0	1.7	2.0	1.4
175°	1.3	2.2	2.0	1.7	1.8	1.4
175.5°	1.3	2.1	2.0	1.7	1.8	1.4
176°	1.3	2.1	2.0	1.7	1.7	1.4
176.5°	1.3	2.1	2.0	1.7	1.7	1.4
177°	1.3	2.1	2.0	1.7	1.7	1.4
177.5°	1.3	2.1	2.0	1.7	1.6	1.4
178°	1.3	2.1	2.0	1.7	1.6	1.4
178.5°	1.3	2.1	2.0	1.7	1.6	1.4



TEST NUMBER: P417435

CATALOG NUMBER: SMD6R69SWH - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.4	1.4	1.4	1.4	1.4	1.4



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	246.8	246.0	247.7	246.8	248.3	248.1	248.6	249.5	250.4	249.6	249.8
22°	245.7	245.1	246.6	245.7	247.6	246.7	248.1	248.3	249.3	248.5	248.9



44°	181.5	181.2	182.4	182.7	184.3	185.4	186.8	186.8	188.2	187.3	187.1
44.5°	179.9	179.5	180.6	180.8	182.5	183.5	184.8	184.9	186.3	185.5	185.2



66.5°	88.4	88.7	89.3	89.9	92.6	93.7	94.8	95.6	96.5	96.1	95.3
67°	86.1	86.3	87.0	87.7	90.4	91.9	92.5	93.3	94.2	93.9	93.2



89°	0.9	0.8	0.8	1.2	3.0	4.1	5.1	5.6	5.9	5.7	5.2
89.5°	0.5	0.5	0.5	0.5	1.2	2.6	3.6	4.1	4.4	4.2	3.8



111.5°	0.6	0.4	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5
112°	0.6	0.5	0.5	0.6	0.5	0.7	0.5	0.6	0.5	0.5	0.5



134°	1.2	1.2	1.0	1.0	0.8	0.9	0.9	0.8	0.9	0.8	0.8
134.5°	1.2	1.2	1.0	1.1	0.8	0.9	0.9	0.7	0.9	0.9	0.8



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



179°	1.4	1.4	1.3	1.4	1.4	1.8	1.8	1.7	1.6	1.4	1.4
179.5°	1.4	1.4	1.3	1.3	1.7	2.0	1.9	1.7	1.6	1.4	1.4





21.5°	248.3	247.9	246.4	245.8	246.0	246.8
22°	247.2	246.9	245.8	245.3	245.0	245.7



44°	185.1	183.7	182.1	181.5	181.3	181.5
44.5°	183.4	181.5	180.5	179.5	179.5	179.9



66.5°	93.9	91.6	89.8	89.0	88.4	88.4
67°	92.0	89.3	87.8	86.8	86.2	86.1



89°	4.7	3.2	2.4	1.6	1.0	0.9
89.5°	3.2	1.9	1.5	0.8	0.6	0.5



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



134°	0.8	1.2	1.2	1.2	0.9	1.2
134.5°	0.8	1.2	1.2	1.2	1.0	1.2



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



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



(END OF REPORT)