

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: P417424

Luminaire Tested: **SMD6R129SWH - 3500K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2008784A001)  
Test Lab: EVERFINE  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6R129SWH - 3500K  
Description: SMD SELECTABLE CCT 3500K  
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1246.6 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

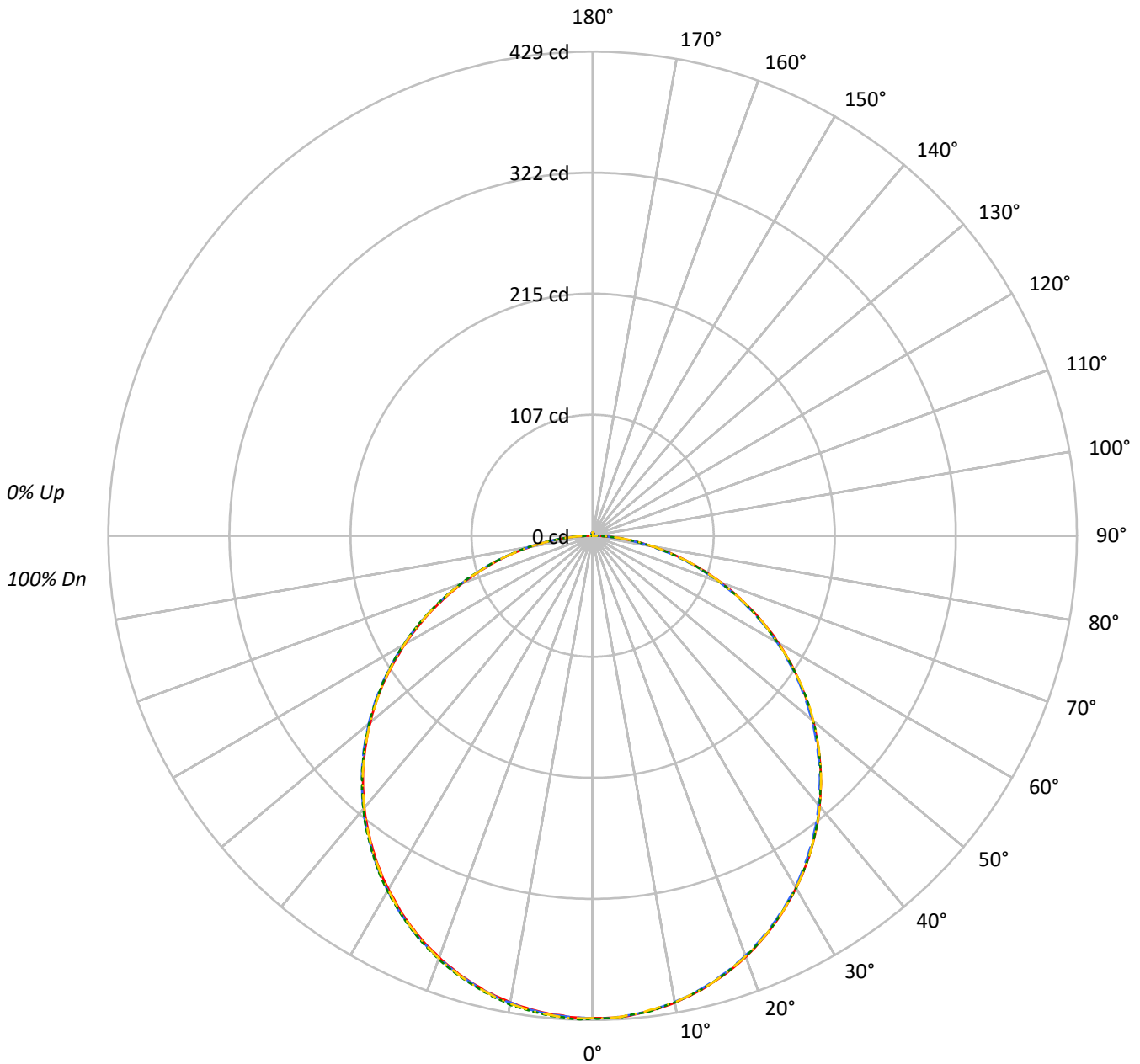
Input Watts (W): 14.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	69																			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
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	36	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°	23430	23430	23430	23430
5°	23437	23404	23421	23503
10°	23385	23374	23369	23485
15°	23275	23269	23298	23366
20°	23160	23125	23190	23289
25°	22985	22973	23058	23149
30°	22814	22820	22890	23004
35°	22627	22613	22720	22821
40°	22392	22370	22506	22614
45°	22095	22088	22243	22351
50°	21739	21756	21918	22038
55°	21333	21313	21552	21667
60°	20876	20733	21007	21237
65°	20223	20041	20417	20664
70°	19394	19186	19619	19923
75°	18385	18067	18682	19084
80°	16890	16669	17616	17900
85°	14970	14655	16480	16605



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	3.2
10°-20°	115.8	9.3
20°-30°	175.5	14.1
30°-40°	212.0	17.0
40°-50°	220.7	17.7
50°-60°	200.5	16.1
60°-70°	154.9	12.4
70°-80°	92.5	7.4
80°-90°	28.1	2.3
90°-100°	0.5	0.0
100°-110°	0.6	0.0
110°-120°	0.7	0.1
120°-130°	0.8	0.1
130°-140°	0.8	0.1
140°-150°	0.8	0.1
150°-160°	0.8	0.1
160°-170°	0.7	0.1
170°-180°	0.2	0.0
0°-30°	331.8	26.6
0°-40°	543.8	43.6
0°-60°	965.0	77.4
0°-90°	1240.6	99.5
90°-120°	1.8	0.1
90°-150°	4.3	0.3
90°-180°	6.0	0.5
0°-180°	1246.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	427	427	427	427	427	
5°	426	425	426	427	426	40
15°	410	410	410	412	410	116
25°	380	380	381	383	380	175
35°	338	338	340	341	338	211
45°	285	285	287	288	285	220
55°	223	223	226	227	223	199
65°	156	154	157	159	156	154
75°	87	85	88	90	87	92
85°	24	23	26	26	24	26
90°	1	0	1	2	1	2
95°	0	0	0	1	0	0
105°	0	1	0	1	0	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	2	2	2	1	2	1
155°	2	2	2	2	2	1
165°	3	2	3	2	3	1
175°	2	3	2	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
0.5°	427.4	427.5	427.7	427.6	428.1	427.6	427.6	427.7	427.5	427.5	427.7
1°	427.4	427.5	427.8	427.7	427.9	427.5	427.6	427.7	427.5	427.5	427.1
1.5°	427.4	427.5	427.7	427.5	427.8	427.4	427.6	427.7	427.3	427.3	427.2
2°	427.4	427.5	427.7	427.3	427.8	427.4	427.6	427.5	427.1	427.2	426.9
2.5°	427.4	427.3	427.4	427.1	427.7	427.2	427.3	427.4	426.9	427.2	426.8
3°	427.2	427.1	427.0	427.0	427.5	427.0	427.1	427.0	426.9	427.2	426.7
3.5°	427.0	426.7	426.5	426.6	427.3	426.8	426.9	426.6	426.0	427.0	426.5
4°	426.8	426.4	426.2	426.3	426.2	426.4	426.2	426.5	425.7	426.5	426.3
4.5°	426.4	426.1	426.0	425.9	425.9	426.1	425.7	426.1	425.7	426.4	426.0
5°	425.9	425.7	425.6	425.4	425.3	425.7	425.6	425.4	425.6	426.0	425.8
5.5°	425.5	425.1	425.2	425.0	425.2	424.8	425.1	425.1	424.9	425.2	425.3
6°	424.8	424.7	424.6	424.6	425.1	424.2	424.6	424.9	424.7	424.8	425.1
6.5°	424.3	424.2	424.1	424.0	425.0	424.0	423.9	424.8	424.1	424.2	424.5
7°	423.8	423.7	423.4	423.4	424.3	423.7	423.1	423.9	423.5	423.9	423.9
7.5°	423.2	423.1	422.8	422.8	423.9	422.9	422.7	422.6	423.1	423.2	423.6
8°	422.8	422.4	422.2	422.1	422.6	422.0	421.9	422.3	422.3	422.8	423.0
8.5°	422.2	421.8	421.6	421.5	421.8	421.6	421.6	421.4	421.8	422.1	422.3
9°	421.6	421.0	420.9	420.6	421.1	420.9	420.9	420.7	421.2	421.5	421.7
9.5°	420.9	420.3	420.2	420.1	420.4	419.8	420.1	420.2	420.4	420.9	420.6
10°	420.1	419.6	419.3	419.2	419.9	419.2	419.5	419.6	419.8	419.9	419.9
10.5°	419.2	418.9	418.4	418.0	419.1	418.3	418.8	418.7	418.9	418.6	419.5
11°	418.1	417.9	417.6	417.2	418.0	417.3	417.9	418.1	418.1	418.2	418.7
11.5°	417.4	417.1	416.7	416.4	416.7	416.6	416.9	417.3	417.3	417.9	418.2
12°	416.5	416.1	415.8	415.3	416.1	415.9	415.9	416.7	416.5	416.7	417.0
12.5°	415.4	415.0	414.8	414.6	415.1	414.7	415.1	415.6	415.5	415.9	416.0
13°	414.6	414.2	413.8	413.5	414.0	413.6	414.3	414.9	415.0	415.5	415.2
13.5°	413.6	413.1	412.6	412.5	413.3	412.5	413.2	414.4	413.8	414.7	414.0
14°	412.5	412.0	411.6	411.3	412.2	411.8	412.0	413.1	412.4	413.1	413.1
14.5°	411.2	410.8	410.4	410.0	411.0	410.7	411.0	412.0	411.6	412.3	412.0
15°	410.1	409.7	409.3	409.0	410.0	409.7	409.9	410.7	410.5	410.7	410.8
15.5°	409.0	408.5	408.0	407.8	408.5	408.2	408.7	408.9	409.2	409.6	409.7
16°	407.7	407.2	406.7	406.6	407.3	407.0	407.3	407.7	408.1	408.7	408.6
16.5°	406.6	406.0	405.4	405.4	406.4	405.9	406.3	406.7	407.0	407.3	407.5
17°	405.3	404.8	404.3	403.8	404.8	404.8	405.0	405.3	405.8	405.9	406.3
17.5°	404.0	403.5	403.0	402.4	403.4	403.2	403.5	404.3	404.3	405.0	404.9
18°	402.6	402.0	401.5	401.1	402.2	401.9	402.2	402.8	402.8	403.5	403.6
18.5°	401.2	400.6	400.0	399.5	400.6	400.4	400.7	401.1	401.7	402.5	402.4
19°	399.8	399.3	398.6	398.4	399.5	399.1	399.3	399.3	400.4	401.2	400.9
19.5°	398.4	397.9	397.3	396.9	397.9	397.8	398.0	398.3	399.1	399.5	399.7
20°	397.0	396.3	395.7	395.4	396.4	396.2	396.4	396.8	397.5	398.3	398.4
20.5°	395.4	394.8	394.2	393.8	395.0	394.6	394.8	395.6	395.9	396.8	397.0
21°	393.8	393.2	392.7	392.3	393.5	393.2	393.5	393.9	394.3	395.1	395.4



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	388.9	388.4	387.8	387.5	388.6	388.4	388.6	389.1	389.9	390.5	390.8
23°	387.2	386.8	386.1	385.7	386.9	386.5	387.0	387.9	388.2	388.6	389.3
23.5°	385.6	384.9	384.3	384.0	385.3	384.8	385.3	386.3	386.6	386.9	387.6
24°	383.8	383.3	382.5	382.2	383.5	383.2	383.5	383.9	384.8	385.3	386.1
24.5°	382.0	381.4	380.8	380.4	381.8	381.3	381.7	382.0	382.7	383.5	384.3
25°	380.0	379.7	379.0	378.5	379.8	379.2	380.0	380.8	381.2	381.9	382.4
25.5°	378.3	377.8	377.1	376.6	377.9	377.6	378.2	378.9	379.6	380.0	381.0
26°	376.4	376.0	375.2	374.7	376.0	375.8	376.3	376.9	377.6	378.2	378.8
26.5°	374.6	374.1	373.3	372.9	374.1	374.2	374.3	375.0	375.9	376.1	376.8
27°	372.8	372.1	371.3	371.0	372.1	371.8	372.4	373.0	373.9	374.5	375.3
27.5°	370.7	370.0	369.4	369.1	370.1	369.9	370.4	371.6	371.7	372.5	373.4
28°	368.6	368.0	367.4	367.1	368.3	368.1	368.5	368.9	369.7	370.7	371.2
28.5°	366.5	366.2	365.4	365.0	366.2	366.1	366.3	367.0	367.6	368.5	369.3
29°	364.6	364.2	363.5	362.9	364.5	364.3	364.5	365.1	365.5	366.6	367.4
29.5°	362.6	362.1	361.4	360.8	362.5	362.4	362.5	363.4	363.7	364.6	365.1
30°	360.4	359.8	359.1	358.8	360.5	360.2	360.4	361.4	361.6	362.7	363.1
30.5°	358.4	357.7	357.1	356.8	358.3	358.0	358.4	358.8	359.5	360.4	361.0
31°	356.4	355.6	354.8	354.7	356.1	355.8	356.2	356.9	357.5	358.4	358.9
31.5°	354.2	353.4	352.7	352.4	353.9	353.7	354.0	355.1	355.5	356.2	356.8
32°	352.0	351.2	350.4	349.9	351.6	351.7	351.8	352.1	353.1	354.2	354.5
32.5°	349.6	348.9	348.2	347.8	349.3	349.3	349.6	350.2	350.8	351.7	352.5
33°	347.4	346.6	345.7	345.6	347.2	346.8	347.4	348.2	348.7	349.3	350.4
33.5°	345.1	344.3	343.5	343.1	344.9	344.7	345.0	345.9	346.4	347.0	347.8
34°	342.9	342.1	341.2	340.7	342.6	342.4	342.8	343.3	344.0	344.7	345.3
34.5°	340.4	339.7	338.8	338.7	340.2	340.2	340.3	341.1	341.7	342.5	343.1
35°	338.1	337.3	336.4	336.0	337.9	337.6	337.9	338.8	339.5	340.1	340.9
35.5°	335.7	335.1	334.1	333.6	335.5	335.2	335.6	336.5	336.9	337.9	338.2
36°	333.2	332.5	331.7	331.3	333.1	333.3	333.1	334.2	334.6	335.6	336.1
36.5°	330.9	330.0	329.2	328.9	330.6	330.7	330.7	331.5	332.1	333.2	333.6
37°	328.3	327.6	326.7	326.3	328.1	328.1	328.4	329.2	329.9	330.5	330.9
37.5°	325.9	325.0	324.3	323.7	325.6	325.5	325.9	326.7	327.2	328.2	328.9
38°	323.4	322.5	321.5	321.2	323.0	322.8	323.4	324.6	324.7	325.9	326.1
38.5°	320.8	319.9	319.1	318.4	320.5	320.2	320.8	322.1	322.1	323.3	323.6
39°	318.3	317.3	316.5	316.0	317.9	317.8	318.2	319.1	319.7	320.7	321.2
39.5°	315.5	314.6	314.0	313.5	315.4	315.2	315.7	316.3	317.2	318.0	318.5
40°	312.9	311.9	311.2	310.9	312.6	312.6	313.0	313.8	314.5	315.4	316.0
40.5°	310.1	309.3	308.7	308.1	309.9	310.0	310.4	311.2	312.0	312.5	313.5
41°	307.5	306.7	305.9	305.4	307.2	307.2	307.6	308.5	309.2	309.9	310.8
41.5°	304.7	303.9	303.2	302.5	304.4	304.7	304.9	305.7	306.3	307.3	308.0
42°	302.1	301.1	300.2	300.0	301.7	301.8	302.0	302.9	303.7	304.7	305.3
42.5°	299.3	298.3	297.8	297.1	299.0	299.0	299.4	300.2	301.1	301.9	302.5
43°	296.6	295.6	295.1	294.5	296.4	296.2	296.5	297.5	298.2	299.3	299.8
43.5°	293.7	292.8	292.2	291.7	293.5	293.5	293.9	294.7	295.6	296.4	296.9



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	285.0	284.1	283.6	283.2	284.9	284.9	285.3	286.1	286.9	287.9	288.7
45.5°	282.1	281.2	280.4	280.0	282.0	281.8	282.5	283.2	284.2	285.2	285.8
46°	279.3	278.3	277.4	277.3	279.1	278.9	279.3	280.2	281.1	282.2	282.9
46.5°	276.1	275.3	274.5	274.2	276.1	276.0	276.5	277.0	278.2	279.3	280.0
47°	273.1	272.2	271.6	271.4	273.2	273.0	273.4	274.3	275.2	276.4	277.2
47.5°	270.3	269.2	268.4	268.1	270.2	269.9	270.5	271.3	272.1	273.3	274.1
48°	267.2	266.1	265.4	265.3	267.2	267.0	267.5	268.3	269.4	270.2	271.1
48.5°	264.2	263.1	262.4	262.2	264.2	264.0	264.6	265.4	266.3	267.3	268.1
49°	261.2	260.2	259.5	259.3	261.3	261.1	261.6	262.3	263.4	264.3	265.1
49.5°	258.1	257.1	256.6	256.0	258.2	258.1	258.6	259.5	260.3	261.5	262.0
50°	254.9	254.0	253.4	252.9	255.1	255.2	255.5	256.6	257.0	258.5	259.0
50.5°	251.7	250.9	250.0	249.7	252.1	252.0	252.3	253.3	254.2	255.3	256.0
51°	248.7	247.8	246.9	246.6	248.9	248.8	249.2	250.2	250.9	253.8	253.0
51.5°	245.5	244.6	243.9	243.5	245.9	245.7	246.2	247.1	247.9	248.9	249.8
52°	242.4	241.4	240.7	240.5	242.7	242.6	243.2	244.0	244.7	245.6	246.5
52.5°	239.1	238.2	237.4	237.1	239.4	239.4	239.8	240.8	241.6	242.5	243.4
53°	236.0	235.0	234.3	233.8	236.2	236.2	236.5	237.6	238.5	239.5	240.3
53.5°	232.8	231.9	231.0	230.8	232.9	233.0	233.3	234.3	235.3	236.2	237.1
54°	229.4	228.5	227.8	227.4	229.5	229.6	230.0	231.0	232.0	232.8	233.7
54.5°	226.4	225.4	224.7	224.3	226.2	226.3	226.7	227.9	228.8	229.4	230.6
55°	223.2	222.2	221.4	221.0	223.0	223.1	223.5	224.5	225.5	226.5	227.3
55.5°	219.9	218.9	218.2	217.7	219.6	219.6	220.1	221.2	222.0	223.2	224.0
56°	216.8	215.6	214.9	214.4	216.2	216.4	216.6	217.6	218.5	219.8	220.5
56.5°	213.4	212.3	211.6	211.1	212.8	213.1	213.3	214.4	215.2	216.6	217.2
57°	210.1	209.0	208.3	207.9	209.5	209.6	210.0	211.0	211.9	213.1	213.9
57.5°	206.8	205.7	204.9	204.6	206.1	206.2	206.7	207.5	208.7	209.8	210.5
58°	203.5	202.5	201.6	201.2	202.8	202.8	203.4	204.3	205.2	206.4	207.2
58.5°	200.3	199.1	198.3	197.7	199.4	199.5	199.9	201.0	201.8	203.0	203.8
59°	196.9	195.8	195.0	194.3	195.9	196.1	196.5	197.5	198.5	199.3	200.4
59.5°	193.7	192.5	191.7	191.0	192.5	192.8	193.1	194.1	195.0	196.2	197.1
60°	190.4	189.2	188.4	187.7	189.1	188.9	189.7	190.6	191.6	192.9	193.7
60.5°	187.0	185.8	185.0	184.0	185.6	185.6	186.1	187.3	188.4	189.5	190.3
61°	183.7	182.4	181.5	180.7	182.1	182.2	182.7	183.7	184.8	186.1	187.0
61.5°	180.2	179.0	178.1	177.4	178.7	178.8	179.2	180.2	181.4	182.6	183.5
62°	176.8	175.6	174.7	173.8	175.3	175.4	175.8	176.9	178.0	179.2	180.0
62.5°	173.2	172.1	171.2	170.2	171.8	171.8	172.3	173.3	174.4	175.8	176.4
63°	169.8	168.7	167.6	166.8	168.2	168.2	169.1	169.9	170.9	172.3	173.1
63.5°	166.3	165.1	164.1	163.5	164.9	165.0	165.4	166.5	167.5	168.6	169.5
64°	162.8	161.5	160.6	160.0	161.5	161.4	162.0	163.0	164.2	165.0	166.1
64.5°	159.3	158.2	157.2	156.5	158.0	158.1	158.6	159.6	160.6	161.7	162.3
65°	155.9	154.8	153.7	153.2	154.5	154.6	155.2	156.2	157.4	158.3	159.1
65.5°	152.4	151.2	150.3	149.6	151.1	151.4	151.8	152.7	153.9	155.0	155.7
66°	148.9	147.6	146.8	145.8	147.7	148.0	148.3	149.1	150.3	151.4	152.1





TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	138.4	137.0	136.3	135.4	137.0	137.7	137.9	138.7	139.9	140.9	141.7
68°	134.8	133.6	132.8	132.0	133.5	133.6	134.4	135.2	136.2	137.4	138.0
68.5°	131.3	130.2	129.3	128.7	130.2	130.0	130.8	131.8	132.7	133.9	134.5
69°	127.8	126.7	125.7	125.2	126.6	126.7	127.3	128.4	129.2	130.1	131.0
69.5°	124.6	123.2	122.3	121.8	123.1	123.2	123.8	124.9	125.7	126.8	127.6
70°	121.0	119.8	118.8	118.0	119.7	119.7	120.5	121.4	122.4	123.4	124.1
70.5°	117.6	116.4	115.5	114.5	116.1	116.4	117.0	117.8	118.9	120.1	120.7
71°	114.1	112.9	111.9	111.0	112.5	112.9	113.3	114.3	115.3	116.5	117.1
71.5°	110.7	109.4	108.4	107.9	108.9	109.4	109.9	110.9	111.9	112.9	113.6
72°	107.2	105.9	105.0	104.1	105.5	105.7	106.4	107.5	108.5	109.4	110.2
72.5°	103.7	102.5	101.5	100.5	102.0	102.4	103.0	104.0	104.9	106.0	106.8
73°	100.3	99.1	98.0	97.3	98.7	98.7	99.6	100.7	101.5	102.6	103.2
73.5°	96.9	95.5	94.5	93.5	95.4	95.4	96.4	97.3	98.3	99.3	99.9
74°	93.5	92.1	91.0	90.2	92.0	92.2	92.9	94.0	95.0	95.9	96.6
74.5°	90.1	88.8	87.7	87.2	88.6	88.8	89.6	90.6	91.6	92.5	93.2
75°	86.8	85.5	84.4	83.4	85.3	85.4	86.3	87.3	88.2	89.2	89.8
75.5°	83.4	82.1	81.0	80.1	82.0	82.2	83.1	84.0	85.1	85.9	86.6
76°	80.1	78.7	77.6	76.8	78.7	78.9	79.7	80.8	81.6	82.6	83.3
76.5°	76.7	75.2	74.1	73.5	75.2	75.6	76.4	77.4	78.3	79.2	79.9
77°	73.3	71.9	70.8	70.2	72.0	72.3	73.1	74.1	75.0	75.9	76.6
77.5°	70.0	68.6	67.6	66.5	68.8	69.1	69.9	70.8	71.8	72.6	73.3
78°	66.7	65.3	64.2	63.5	65.5	65.8	66.6	67.6	68.5	69.4	70.1
78.5°	63.4	61.9	60.9	60.1	62.2	62.5	63.4	64.2	65.2	66.1	66.9
79°	60.0	58.5	57.6	57.3	59.0	59.4	60.1	61.1	62.0	62.9	63.6
79.5°	56.8	55.3	54.3	53.7	55.9	56.2	57.1	58.0	58.7	59.6	60.4
80°	53.5	52.3	51.2	51.0	52.8	53.1	54.0	54.9	55.8	56.6	57.3
80.5°	50.3	49.1	48.0	47.6	49.7	50.1	50.9	51.9	52.7	53.5	54.3
81°	47.1	45.9	45.0	44.5	46.6	47.1	47.9	48.8	49.6	50.3	51.1
81.5°	44.2	42.9	41.9	41.5	43.5	44.0	44.8	45.7	46.6	47.1	47.9
82°	41.0	39.9	39.0	38.5	40.5	41.0	41.8	42.7	43.5	44.1	44.9
82.5°	37.9	36.8	35.8	35.6	37.6	37.9	38.8	39.7	40.5	41.1	41.9
83°	35.2	33.8	32.9	32.9	34.7	35.1	35.9	36.8	37.6	38.4	38.9
83.5°	32.2	31.0	30.2	29.6	31.7	32.1	33.0	33.9	34.7	35.4	36.0
84°	29.3	28.0	27.3	26.9	28.9	29.3	30.0	30.9	31.8	32.4	33.0
84.5°	26.6	25.3	24.4	24.3	26.1	26.5	27.4	28.2	29.0	29.6	30.3
85°	23.8	22.7	21.9	21.8	23.3	23.8	24.8	25.4	26.2	26.8	27.4
85.5°	21.2	20.1	19.2	18.7	20.8	21.3	22.0	22.6	23.5	24.0	24.6
86°	18.7	17.3	16.6	16.2	18.2	18.6	19.3	20.2	21.0	21.6	22.1
86.5°	16.0	14.8	13.9	13.6	15.6	16.0	16.8	17.6	18.4	18.8	19.5
87°	13.4	12.3	11.4	11.2	13.1	13.5	14.3	14.8	15.7	16.4	16.9
87.5°	10.9	10.0	9.1	8.7	10.6	11.0	11.7	12.3	13.3	13.7	14.2
88°	8.6	7.6	6.8	6.2	8.3	8.7	9.5	10.2	10.8	11.2	11.7
88.5°	6.4	5.5	4.5	4.0	6.0	6.5	7.1	7.9	8.4	8.8	9.3



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.9	0.8	0.8	0.7	0.8	0.7	0.5	0.4	0.5	0.8	0.7
113°	0.8	0.7	0.8	0.7	0.8	0.8	0.5	0.5	0.8	0.8	0.7
113.5°	0.8	0.7	0.9	0.7	0.9	0.8	0.7	0.5	0.8	0.5	0.7
114°	0.8	0.7	0.9	0.8	0.9	0.8	0.6	0.5	0.7	0.4	0.8
114.5°	0.8	0.8	0.9	0.9	0.9	0.8	0.4	0.5	0.7	0.8	0.8
115°	0.8	0.8	0.9	0.7	0.9	0.8	0.5	0.5	0.7	0.5	0.8
115.5°	0.8	0.8	0.9	0.9	0.9	0.8	0.5	0.5	0.7	0.7	0.8
116°	0.8	0.9	0.8	0.8	0.9	0.8	0.5	0.5	0.7	0.7	0.9
116.5°	0.9	0.9	0.8	0.7	0.9	0.8	0.5	0.4	0.7	0.7	0.9
117°	0.9	0.9	0.8	0.8	0.9	0.9	0.6	0.7	0.7	0.7	0.9
117.5°	1.0	0.9	0.9	0.7	0.9	0.9	0.7	0.8	0.7	0.7	0.9
118°	0.9	1.0	0.9	0.9	1.0	0.9	0.7	0.8	0.7	0.7	0.9
118.5°	0.9	0.9	0.9	0.9	1.0	0.9	0.7	0.8	0.7	0.7	0.9
119°	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.7	0.7	0.8	0.9
119.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.7	0.6	0.8	0.8	0.9
120°	0.9	1.0	0.9	0.7	1.0	0.9	0.7	0.6	0.8	0.8	0.9
120.5°	0.9	1.0	0.9	0.7	1.0	0.9	0.6	0.7	0.9	0.8	0.9
121°	0.9	1.0	0.9	0.9	1.0	0.9	0.6	0.7	0.7	0.8	0.9
121.5°	1.0	1.1	0.9	0.9	1.0	1.0	0.8	0.7	0.9	0.8	0.9
122°	0.9	1.1	0.9	1.1	1.0	1.0	0.7	0.8	0.9	0.8	0.9
122.5°	0.9	1.1	0.9	1.0	1.0	0.9	0.7	0.7	0.9	0.8	0.9
123°	1.1	1.1	0.9	1.2	1.0	0.9	0.7	0.6	0.9	0.8	0.9
123.5°	1.0	1.1	1.1	1.2	1.0	0.9	0.7	0.9	0.9	0.8	0.9
124°	1.1	1.1	1.1	1.1	1.0	0.9	0.7	0.9	0.9	0.9	0.9
124.5°	1.1	1.1	1.0	1.1	1.0	0.9	0.7	0.9	0.9	0.9	0.9
125°	1.0	1.1	1.0	1.1	1.1	0.9	0.7	0.8	1.0	0.9	0.9
125.5°	1.1	1.1	1.0	1.1	1.1	0.9	0.7	0.8	1.0	0.9	0.9
126°	1.1	1.1	1.0	1.1	1.1	0.9	0.7	0.8	0.9	0.9	0.9
126.5°	1.1	1.1	1.0	1.2	1.1	1.0	0.8	0.7	0.9	0.9	0.9
127°	1.1	1.1	1.0	1.2	1.1	0.9	0.7	0.7	1.1	0.9	0.9
127.5°	1.1	1.1	1.0	1.1	1.1	1.1	0.7	0.7	1.0	0.9	0.9
128°	1.1	1.1	1.0	1.1	1.1	1.1	0.7	0.9	1.0	0.9	0.9
128.5°	1.1	1.1	1.0	1.1	1.1	1.0	0.7	0.8	1.0	0.9	0.9
129°	1.1	1.1	1.0	1.1	1.1	1.0	0.7	0.7	0.9	0.9	0.9
129.5°	1.1	1.1	1.1	1.1	1.2	1.0	0.7	0.9	0.9	0.9	0.9
130°	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.9	0.9	0.9	0.9
130.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.9	0.9	0.9	1.0
131°	1.1	1.1	1.4	1.1	1.1	1.0	0.9	0.9	1.0	1.0	1.0
131.5°	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.8	1.1	0.9	1.0
132°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	1.1	1.0	1.0
132.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.9	1.1	0.9	1.0
133°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	1.1	0.9	1.0
133.5°	1.1	1.1	1.2	1.1	1.1	1.1	1.1	0.9	1.1	0.9	1.0



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.2	1.1	1.1	1.1	1.2	1.1	1.1	0.9	1.2	0.9	1.0
135.5°	1.2	1.1	1.2	1.1	1.2	1.1	1.1	0.9	1.2	0.8	1.0
136°	1.2	1.1	1.2	1.1	1.2	1.1	0.9	0.9	1.2	0.9	1.0
136.5°	1.2	1.1	1.3	1.1	1.3	1.1	0.8	0.7	1.2	0.9	1.1
137°	1.2	1.2	1.3	1.1	1.3	1.1	0.8	1.1	1.3	0.9	1.1
137.5°	1.3	1.2	1.5	1.1	1.3	1.1	0.9	0.9	1.3	1.0	1.1
138°	1.3	1.1	1.5	1.2	1.3	1.1	0.9	1.0	1.3	1.0	1.1
138.5°	1.3	1.2	1.5	1.2	1.3	1.2	0.9	0.9	1.3	1.0	1.1
139°	1.3	1.2	1.5	1.2	1.3	1.2	0.8	1.0	1.5	1.1	1.1
139.5°	1.3	1.2	1.5	1.3	1.3	1.1	0.8	1.1	1.5	1.1	1.1
140°	1.3	1.3	1.5	1.3	1.3	1.3	0.9	1.1	1.4	1.1	1.2
140.5°	1.3	1.3	1.5	1.3	1.3	1.3	0.9	1.1	1.4	1.2	1.2
141°	1.3	1.2	1.5	1.3	1.3	1.2	1.0	1.1	1.4	1.2	1.1
141.5°	1.3	1.2	1.5	1.3	1.3	1.2	0.9	1.1	1.3	1.2	1.1
142°	1.3	1.2	1.5	1.3	1.3	1.2	0.9	1.1	1.5	1.1	1.1
142.5°	1.3	1.3	1.5	1.3	1.3	1.2	0.8	1.1	1.5	1.0	1.1
143°	1.3	1.3	1.5	1.3	1.3	1.2	1.1	1.3	1.5	1.3	1.2
143.5°	1.3	1.3	1.5	1.3	1.3	1.2	1.1	1.3	1.5	1.2	1.2
144°	1.3	1.3	1.5	1.3	1.5	1.2	0.9	1.3	1.5	1.3	1.2
144.5°	1.5	1.3	1.5	1.3	1.5	1.2	1.1	1.2	1.5	1.3	1.2
145°	1.5	1.4	1.5	1.3	1.5	1.2	1.0	1.2	1.5	1.3	1.3
145.5°	1.7	1.5	1.5	1.4	1.5	1.2	1.0	1.2	1.5	1.4	1.3
146°	1.7	1.7	1.5	1.4	1.5	1.2	1.0	1.2	1.5	1.5	1.3
146.5°	1.7	1.7	1.5	1.4	1.5	1.2	1.0	1.3	1.5	1.5	1.3
147°	1.9	1.7	1.7	1.5	1.5	1.2	1.0	1.4	1.6	1.1	1.3
147.5°	1.9	1.8	1.7	1.6	1.5	1.2	1.0	1.4	1.6	1.5	1.3
148°	1.9	1.8	1.7	1.5	1.6	1.3	1.1	1.3	1.5	1.5	1.4
148.5°	1.9	1.8	1.7	1.7	1.6	1.4	1.2	1.3	1.5	1.5	1.4
149°	1.9	1.8	1.7	1.9	1.7	1.5	1.2	1.3	1.5	1.7	1.3
149.5°	1.9	1.9	1.7	1.9	1.7	1.5	1.2	1.3	1.5	1.7	1.3
150°	1.9	1.9	1.7	1.8	1.7	1.5	1.3	1.3	1.5	1.8	1.5
150.5°	2.1	1.9	1.7	1.8	1.7	1.5	1.3	1.3	1.5	1.8	1.5
151°	2.1	1.9	1.8	1.8	1.7	1.5	1.3	1.3	1.5	1.8	1.5
151.5°	2.1	1.9	1.8	1.8	1.7	1.6	1.3	1.3	1.5	1.9	1.5
152°	2.1	1.9	1.8	1.8	1.7	1.7	1.3	1.4	1.7	1.8	1.5
152.5°	2.1	1.9	1.8	1.8	1.7	1.7	1.3	1.4	1.8	1.9	1.5
153°	2.1	1.9	1.8	1.8	1.8	1.7	1.3	1.7	2.1	1.9	1.5
153.5°	2.1	1.9	1.8	1.8	1.8	1.7	1.4	1.5	1.9	1.9	1.6
154°	2.1	1.9	1.8	1.9	1.8	1.7	1.4	1.5	1.9	1.9	1.6
154.5°	2.1	2.0	1.8	1.9	1.8	1.8	1.5	1.7	1.9	2.1	1.6
155°	2.1	2.1	1.8	1.9	1.9	1.8	1.5	1.7	2.0	2.1	1.7
155.5°	2.3	2.1	1.9	2.0	1.9	1.7	1.5	1.7	2.1	2.0	1.7
156°	2.3	2.1	1.9	2.0	1.9	1.7	1.5	1.7	2.1	2.1	1.8



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.3	2.2	1.9	1.9	2.0	1.8	1.7	1.8	2.1	2.2	1.9
158°	2.3	2.1	1.9	1.9	2.0	1.8	1.7	2.0	2.2	2.2	1.9
158.5°	2.3	2.1	1.9	1.9	2.1	2.1	1.6	2.1	2.3	2.3	2.0
159°	2.3	2.2	2.1	1.9	2.1	2.1	1.8	2.1	2.3	2.3	2.0
159.5°	2.3	2.2	2.1	1.9	2.1	2.1	2.0	2.1	2.4	2.3	2.1
160°	2.3	2.3	2.1	1.9	2.2	2.1	2.0	2.2	2.4	2.3	2.1
160.5°	2.3	2.3	2.2	2.0	2.3	2.1	1.9	2.2	2.5	2.3	2.1
161°	2.3	2.3	2.1	2.1	2.3	2.2	2.1	2.2	2.5	2.3	2.1
161.5°	2.3	2.3	2.1	2.0	2.3	2.2	2.1	2.4	2.5	2.3	2.3
162°	2.5	2.3	2.2	2.0	2.3	2.1	2.2	2.4	2.5	2.5	2.3
162.5°	2.5	2.5	2.3	2.0	2.3	2.1	2.1	2.4	2.5	2.6	2.3
163°	2.5	2.5	2.3	2.0	2.3	2.1	2.1	2.4	2.5	2.6	2.3
163.5°	2.5	2.7	2.3	2.0	2.4	2.2	2.3	2.5	2.5	2.3	2.3
164°	2.5	2.7	2.3	2.0	2.5	2.5	2.2	2.5	2.5	2.5	2.3
164.5°	2.5	2.8	2.3	2.1	2.5	2.5	2.4	2.5	2.5	2.5	2.3
165°	2.6	2.8	2.3	2.1	2.5	2.4	2.4	2.5	2.7	2.7	2.3
165.5°	2.7	2.9	2.3	2.1	2.6	2.4	2.4	2.5	2.6	2.8	2.3
166°	2.7	3.0	2.3	2.1	2.7	2.4	2.5	2.5	2.6	2.9	2.3
166.5°	2.7	2.9	2.3	2.1	2.6	2.4	2.5	2.5	2.6	2.7	2.8
167°	2.8	2.9	2.3	2.1	2.7	2.5	2.5	2.5	2.6	2.8	2.6
167.5°	2.9	2.9	2.5	2.1	2.7	2.5	2.5	2.5	2.6	2.7	2.7
168°	2.9	2.8	2.4	2.1	2.8	2.5	2.5	2.5	2.6	4.4	2.5
168.5°	2.8	2.7	2.4	2.2	2.7	2.8	2.5	2.5	2.6	2.5	2.5
169°	2.7	2.7	2.4	2.2	2.7	2.8	2.5	2.5	2.6	2.5	2.4
169.5°	2.8	2.7	2.4	2.4	2.7	2.7	2.5	2.5	2.6	2.5	2.4
170°	2.9	2.7	2.4	2.3	2.7	2.7	2.5	2.5	2.6	2.3	2.3
170.5°	2.9	2.7	2.4	2.3	2.7	2.7	2.5	2.5	2.6	2.3	2.4
171°	2.9	2.7	2.5	2.3	2.7	2.7	2.5	2.5	2.6	2.5	2.4
171.5°	2.9	2.7	2.5	2.3	2.7	2.7	2.7	2.5	2.6	2.4	2.3
172°	2.9	2.6	2.4	2.3	2.7	2.7	2.7	2.5	2.6	2.5	2.3
172.5°	2.7	2.6	2.4	2.3	2.7	2.7	2.7	2.5	2.7	2.5	2.3
173°	2.7	2.7	2.3	2.3	2.7	2.7	2.7	2.5	2.7	2.5	2.3
173.5°	2.6	2.5	2.5	2.3	2.7	2.7	2.7	2.5	2.7	2.5	2.3
174°	2.7	2.5	2.5	2.3	2.7	2.7	2.7	2.5	2.7	2.5	2.3
174.5°	2.5	2.5	2.5	2.3	2.7	2.7	2.9	2.5	2.7	2.5	2.3
175°	2.5	2.5	2.5	2.3	2.7	2.7	2.8	2.5	2.4	2.5	2.3
175.5°	2.5	2.5	2.5	2.3	2.7	2.7	2.7	2.5	2.4	2.5	2.3
176°	2.6	2.5	2.5	2.3	2.7	2.7	2.7	2.5	2.3	2.1	2.3
176.5°	2.5	2.5	2.4	2.3	2.7	2.7	2.5	2.5	2.3	2.1	2.3
177°	2.5	2.5	2.5	2.3	2.7	2.8	2.6	2.5	2.3	2.1	2.3
177.5°	2.5	2.6	2.5	2.4	2.7	2.8	2.5	2.5	2.4	2.1	2.3
178°	2.4	2.4	2.3	2.7	2.9	2.9	2.8	2.5	2.4	2.1	2.3
178.5°	2.6	2.4	2.4	2.9	3.1	3.0	3.1	2.7	2.4	2.3	2.4



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	427.4	427.4	427.4	427.4	427.4	427.4
0.5°	427.7	428.2	428.2	427.6	427.7	427.4
1°	427.6	428.2	428.1	427.6	427.7	427.4
1.5°	427.8	428.7	428.1	427.6	427.8	427.4
2°	427.3	428.6	427.9	427.6	427.7	427.4
2.5°	427.2	428.4	427.7	427.6	427.5	427.4
3°	427.0	428.2	427.7	427.6	427.1	427.2
3.5°	426.9	427.4	427.5	427.5	427.0	427.0
4°	426.7	427.3	427.1	427.2	427.0	426.8
4.5°	426.3	427.3	426.6	426.8	426.6	426.4
5°	425.7	427.1	426.2	426.4	426.4	425.9
5.5°	425.5	426.7	425.9	426.0	426.1	425.5
6°	425.2	426.0	425.5	425.6	425.5	424.8
6.5°	424.8	425.5	425.1	425.1	424.5	424.3
7°	424.0	425.2	424.8	424.6	424.2	423.8
7.5°	423.7	424.6	424.1	424.0	423.9	423.2
8°	423.1	424.0	423.7	423.5	423.0	422.8
8.5°	422.6	423.6	422.8	422.8	422.6	422.2
9°	421.9	422.9	422.3	422.2	422.1	421.6
9.5°	420.9	422.5	421.7	421.6	421.1	420.9
10°	419.9	421.9	421.1	421.0	420.2	420.1
10.5°	419.4	420.8	420.1	419.8	419.4	419.2
11°	418.5	419.8	419.2	419.2	418.7	418.1
11.5°	418.1	419.1	418.3	418.5	417.9	417.4
12°	417.2	418.4	417.5	417.5	417.0	416.5
12.5°	416.5	417.1	416.7	416.4	416.0	415.4
13°	415.4	416.1	415.8	415.5	415.0	414.6
13.5°	414.5	415.3	414.9	414.4	414.0	413.6
14°	413.4	414.0	413.8	413.3	413.0	412.5
14.5°	412.3	412.8	412.6	412.4	411.9	411.2
15°	411.1	411.7	411.5	411.4	410.7	410.1
15.5°	410.0	410.7	410.3	410.1	409.6	409.0
16°	408.9	409.6	409.4	409.0	408.3	407.7
16.5°	407.7	408.4	408.0	407.8	407.1	406.6
17°	406.4	407.2	406.8	406.5	405.9	405.3
17.5°	405.1	405.9	405.4	405.1	404.6	404.0
18°	403.8	404.6	404.1	403.9	403.4	402.6
18.5°	402.6	403.2	402.7	402.6	402.0	401.2
19°	401.3	401.9	401.2	401.1	400.5	399.8
19.5°	400.0	400.6	399.9	399.6	399.3	398.4
20°	398.5	399.2	398.5	398.3	397.8	397.0
20.5°	397.2	397.6	397.1	396.8	396.2	395.4
21°	395.8	396.2	395.6	395.2	394.6	393.8



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	392.4	391.4	390.9	390.5	389.8	388.9
23°	389.4	389.7	389.3	388.8	388.1	387.2
23.5°	387.8	388.1	387.6	387.0	386.5	385.6
24°	386.1	386.3	385.8	385.3	384.7	383.8
24.5°	384.5	384.5	384.1	383.5	382.9	382.0
25°	382.9	382.7	382.3	381.9	381.1	380.0
25.5°	381.0	380.9	380.3	379.9	379.3	378.3
26°	379.3	379.1	378.6	378.1	377.4	376.4
26.5°	377.2	377.2	376.7	376.2	375.5	374.6
27°	375.3	375.3	374.8	374.3	373.7	372.8
27.5°	373.4	373.2	372.8	372.3	371.7	370.7
28°	371.5	371.2	370.9	370.4	369.7	368.6
28.5°	369.6	369.4	368.9	368.5	367.7	366.5
29°	367.3	367.3	366.9	366.4	365.7	364.6
29.5°	365.4	365.6	365.0	364.4	363.7	362.6
30°	363.3	363.4	363.0	362.2	361.6	360.4
30.5°	361.5	361.3	361.0	360.1	359.5	358.4
31°	359.3	359.3	358.8	357.9	357.3	356.4
31.5°	357.2	357.2	356.4	355.8	355.2	354.2
32°	354.8	355.0	354.4	353.7	353.1	352.0
32.5°	352.8	352.9	352.2	351.6	350.8	349.6
33°	350.5	350.4	349.9	349.2	348.5	347.4
33.5°	348.0	348.2	347.6	346.9	346.2	345.1
34°	345.8	345.7	345.2	344.7	343.9	342.9
34.5°	343.5	343.3	343.0	342.4	341.7	340.4
35°	341.2	341.0	340.5	340.0	339.3	338.1
35.5°	338.8	338.6	338.1	337.5	336.9	335.7
36°	336.3	336.1	335.7	335.0	334.5	333.2
36.5°	333.9	333.7	333.2	332.5	331.9	330.9
37°	331.4	331.5	330.8	330.4	329.4	328.3
37.5°	328.9	329.1	328.2	327.7	326.9	325.9
38°	326.4	326.5	325.8	325.1	324.3	323.4
38.5°	324.1	324.0	323.3	322.5	321.8	320.8
39°	321.6	321.4	320.6	319.9	319.1	318.3
39.5°	318.8	318.7	317.9	317.4	316.5	315.5
40°	316.3	316.0	315.3	314.8	313.9	312.9
40.5°	313.8	313.3	312.6	312.1	311.2	310.1
41°	311.2	310.5	309.9	309.4	308.4	307.5
41.5°	308.4	307.9	307.1	306.6	305.7	304.7
42°	305.7	305.2	304.5	304.0	302.9	302.1
42.5°	302.8	302.4	301.6	301.3	300.1	299.3
43°	300.2	299.5	298.9	298.4	297.4	296.6
43.5°	297.7	296.9	296.4	295.8	294.9	293.7





TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	289.1	288.3	287.6	287.2	286.2	285.0
45.5°	286.1	285.4	284.8	284.2	283.4	282.1
46°	283.3	282.5	281.8	281.4	280.2	279.3
46.5°	280.4	279.4	279.1	278.5	277.2	276.1
47°	277.6	276.6	276.0	275.5	274.3	273.1
47.5°	274.5	273.5	272.9	272.4	271.3	270.3
48°	271.4	270.4	269.9	269.3	268.2	267.2
48.5°	268.6	267.4	266.9	266.3	265.2	264.2
49°	265.4	264.3	263.7	263.3	262.2	261.2
49.5°	262.3	261.4	260.8	260.2	259.2	258.1
50°	259.6	258.4	257.6	257.2	255.9	254.9
50.5°	256.2	255.1	254.6	254.1	252.9	251.7
51°	253.4	252.2	251.4	251.0	249.8	248.7
51.5°	250.1	249.0	248.3	247.8	246.6	245.5
52°	247.0	245.9	245.3	244.7	243.5	242.4
52.5°	243.9	242.8	242.0	241.5	240.3	239.1
53°	240.7	239.6	238.7	238.3	237.1	236.0
53.5°	237.6	236.2	235.7	235.1	233.9	232.8
54°	234.5	233.0	232.4	231.8	230.7	229.4
54.5°	231.1	229.7	229.2	228.7	227.6	226.4
55°	227.8	226.7	226.0	225.5	224.5	223.2
55.5°	224.5	223.4	223.0	222.2	221.1	219.9
56°	221.2	220.1	219.7	219.1	217.9	216.8
56.5°	217.9	216.8	216.4	215.8	214.7	213.4
57°	214.5	213.6	213.1	212.5	211.3	210.1
57.5°	211.3	210.3	209.9	209.2	208.1	206.8
58°	208.0	206.9	206.6	205.9	204.9	203.5
58.5°	204.7	203.6	203.3	202.6	201.6	200.3
59°	201.3	200.3	200.0	199.3	198.2	196.9
59.5°	197.8	197.0	196.7	195.9	194.9	193.7
60°	194.6	193.7	193.3	192.6	191.6	190.4
60.5°	191.2	190.4	190.1	189.3	188.3	187.0
61°	187.6	187.0	186.7	186.1	184.9	183.7
61.5°	184.1	183.6	183.3	182.5	181.6	180.2
62°	180.6	180.2	179.8	179.0	178.0	176.8
62.5°	177.3	176.7	176.4	175.6	174.6	173.2
63°	173.7	173.3	172.9	172.2	171.2	169.8
63.5°	170.3	169.8	169.5	168.7	167.6	166.3
64°	166.6	166.2	166.0	165.3	164.0	162.8
64.5°	163.1	162.7	162.5	161.7	160.6	159.3
65°	159.7	159.3	159.1	158.3	157.2	155.9
65.5°	156.3	155.9	155.7	154.8	153.6	152.4
66°	152.6	152.4	152.1	151.4	150.2	148.9



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	142.3	141.7	141.5	140.8	139.5	138.4
68°	138.7	138.3	138.0	137.3	136.2	134.8
68.5°	135.2	134.8	134.5	133.8	132.7	131.3
69°	131.8	131.3	131.0	130.3	129.3	127.8
69.5°	128.3	127.8	127.5	126.7	125.7	124.6
70°	124.8	124.3	124.2	123.3	122.4	121.0
70.5°	121.4	120.9	120.6	120.0	119.0	117.6
71°	118.0	117.5	117.3	116.5	115.6	114.1
71.5°	114.4	114.0	113.8	113.2	112.1	110.7
72°	110.9	110.6	110.3	109.6	108.6	107.2
72.5°	107.5	107.0	107.0	106.2	105.1	103.7
73°	103.9	103.5	103.5	102.8	101.7	100.3
73.5°	100.6	100.2	100.1	99.4	98.3	96.9
74°	97.2	96.8	96.6	96.0	94.9	93.5
74.5°	93.8	93.4	93.3	92.6	91.5	90.1
75°	90.5	90.1	89.9	89.3	88.2	86.8
75.5°	87.2	86.7	86.6	86.0	84.9	83.4
76°	84.0	83.2	83.3	82.6	81.6	80.1
76.5°	80.6	79.9	79.9	79.2	78.1	76.7
77°	77.2	76.6	76.5	75.8	74.8	73.3
77.5°	73.9	73.2	73.1	72.5	71.4	70.0
78°	70.8	69.9	69.8	69.2	68.1	66.7
78.5°	67.4	66.6	66.5	65.9	64.7	63.4
79°	64.4	63.2	63.2	62.6	61.4	60.0
79.5°	60.9	59.8	59.8	59.2	58.1	56.8
80°	58.0	56.7	56.6	55.9	54.9	53.5
80.5°	54.8	53.3	53.3	52.8	51.6	50.3
81°	51.8	50.2	50.2	49.6	48.6	47.1
81.5°	48.6	46.9	47.1	46.5	45.4	44.2
82°	45.5	44.0	44.0	43.5	42.3	41.0
82.5°	42.5	40.9	40.8	40.4	39.4	37.9
83°	39.7	37.9	37.9	37.4	36.4	35.2
83.5°	36.6	34.9	35.0	34.5	33.5	32.2
84°	33.6	32.0	32.0	31.6	30.6	29.3
84.5°	30.8	29.1	29.3	28.7	27.8	26.6
85°	28.0	26.4	26.4	25.9	25.1	23.8
85.5°	25.3	23.6	23.7	23.4	22.4	21.2
86°	22.6	21.0	21.0	20.6	19.7	18.7
86.5°	19.8	18.3	18.4	17.9	17.0	16.0
87°	17.5	15.7	15.6	15.2	14.5	13.4
87.5°	14.8	13.1	13.1	12.8	12.0	10.9
88°	12.1	10.6	10.6	10.2	9.6	8.6
88.5°	9.6	8.1	8.1	7.8	7.3	6.4



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.8	1.8	1.7	1.4	1.0	0.8
90.5°	1.0	0.8	0.7	0.7	0.6	0.7
91°	0.2	0.7	0.7	0.7	0.6	0.6
91.5°	0.2	0.7	0.7	0.7	0.6	0.7
92°	0.3	0.6	0.6	0.6	0.6	0.7
92.5°	0.2	0.6	0.6	0.6	0.6	0.6
93°	0.1	0.6	0.6	0.6	0.5	0.6
93.5°	0.1	0.6	0.6	0.6	0.5	0.5
94°	0.1	0.6	0.6	0.6	0.5	0.5
94.5°	0.1	0.6	0.6	0.6	0.5	0.5
95°	0.1	0.6	0.6	0.6	0.5	0.5
95.5°	0.0	0.6	0.6	0.6	0.5	0.5
96°	0.0	0.6	0.6	0.6	0.5	0.5
96.5°	0.1	0.6	0.6	0.6	0.5	0.5
97°	0.1	0.6	0.6	0.6	0.5	0.5
97.5°	0.1	0.6	0.6	0.6	0.5	0.5
98°	0.2	0.6	0.6	0.6	0.5	0.5
98.5°	0.3	0.6	0.6	0.6	0.5	0.5
99°	0.3	0.6	0.6	0.6	0.5	0.5
99.5°	0.3	0.6	0.6	0.6	0.5	0.5
100°	0.3	0.6	0.6	0.6	0.5	0.5
100.5°	0.2	0.6	0.6	0.6	0.5	0.5
101°	0.1	0.6	0.6	0.6	0.5	0.5
101.5°	0.1	0.6	0.6	0.6	0.5	0.5
102°	0.3	0.6	0.6	0.6	0.5	0.5
102.5°	0.4	0.6	0.6	0.6	0.5	0.5
103°	0.4	0.6	0.6	0.6	0.5	0.5
103.5°	0.4	0.6	0.6	0.6	0.5	0.5
104°	0.4	0.6	0.6	0.6	0.5	0.5
104.5°	0.3	0.7	0.6	0.6	0.5	0.5
105°	0.3	0.7	0.6	0.6	0.5	0.5
105.5°	0.3	0.7	0.6	0.6	0.5	0.5
106°	0.5	0.7	0.6	0.6	0.5	0.5
106.5°	0.4	0.7	0.6	0.6	0.5	0.5
107°	0.4	0.7	0.6	0.6	0.5	0.7
107.5°	0.4	0.7	0.6	0.6	0.5	0.7
108°	0.5	0.7	0.6	0.6	0.5	0.7
108.5°	0.5	0.8	0.6	0.6	0.5	0.7
109°	0.5	0.8	0.6	0.6	0.5	0.7
109.5°	0.5	0.7	0.6	0.6	0.5	0.8
110°	0.5	0.7	0.6	0.6	0.5	0.8
110.5°	0.4	0.7	0.6	0.6	0.5	0.8
111°	0.5	0.7	0.6	0.6	0.5	0.8



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	1.1	1.1	1.1	1.1	1.2
135.5°	0.8	1.1	1.1	1.1	1.1	1.2
136°	0.8	1.1	1.1	1.1	1.1	1.2
136.5°	1.0	1.1	1.1	1.1	1.1	1.2
137°	1.0	1.1	1.1	1.1	1.1	1.2
137.5°	0.9	1.1	1.1	1.1	1.1	1.3
138°	0.9	1.1	1.1	1.1	1.1	1.3
138.5°	0.9	1.1	1.1	1.1	1.1	1.3
139°	0.9	1.1	1.1	1.1	1.1	1.3
139.5°	0.9	1.1	1.1	1.1	1.1	1.3
140°	0.9	1.1	1.1	1.1	1.1	1.3
140.5°	0.9	1.1	1.1	1.1	1.1	1.3
141°	0.9	1.1	1.1	1.1	1.1	1.3
141.5°	0.9	1.1	1.1	1.1	1.1	1.3
142°	0.9	1.1	1.1	1.1	1.1	1.3
142.5°	0.9	1.1	1.1	1.1	1.1	1.3
143°	0.9	1.1	1.1	1.1	1.1	1.3
143.5°	0.9	1.1	1.1	1.1	1.1	1.3
144°	1.1	1.1	1.1	1.1	1.1	1.3
144.5°	1.1	1.1	1.2	1.1	1.1	1.5
145°	1.1	1.1	1.2	1.1	1.1	1.5
145.5°	1.1	1.1	1.2	1.1	1.2	1.7
146°	1.1	1.1	1.3	1.1	1.2	1.7
146.5°	1.1	1.1	1.3	1.1	1.3	1.7
147°	1.1	1.1	1.3	1.1	1.3	1.9
147.5°	1.2	1.1	1.3	1.2	1.3	1.9
148°	1.3	1.1	1.4	1.2	1.3	1.9
148.5°	1.3	1.2	1.5	1.2	1.3	1.9
149°	1.3	1.2	1.5	1.2	1.3	1.9
149.5°	1.3	1.3	1.7	1.3	1.3	1.9
150°	1.3	1.3	1.7	1.3	1.4	1.9
150.5°	1.3	1.3	1.8	1.3	1.6	2.1
151°	1.3	1.3	1.9	1.3	1.6	2.1
151.5°	1.5	1.5	1.9	1.3	1.7	2.1
152°	1.5	1.5	1.9	1.3	1.9	2.1
152.5°	1.5	1.5	1.9	1.3	1.9	2.1
153°	1.5	1.6	2.0	1.3	1.9	2.1
153.5°	1.5	1.7	2.0	1.3	2.0	2.1
154°	1.5	1.7	2.0	1.3	2.0	2.1
154.5°	1.5	1.8	2.0	1.3	2.1	2.1
155°	1.5	1.7	2.1	1.5	2.1	2.1
155.5°	1.7	1.7	2.1	1.5	2.0	2.3
156°	1.6	1.8	2.1	1.5	2.0	2.3



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.6	1.9	2.1	1.5	2.0	2.3
158°	1.6	2.0	2.1	1.6	2.0	2.3
158.5°	1.7	2.0	2.1	1.7	2.0	2.3
159°	1.6	2.0	2.1	1.9	2.0	2.3
159.5°	1.8	2.0	2.1	1.9	2.0	2.3
160°	1.8	2.0	2.1	1.9	2.0	2.3
160.5°	1.8	2.0	2.1	1.9	2.0	2.3
161°	1.8	2.0	2.1	1.9	2.0	2.3
161.5°	1.8	2.0	2.1	1.9	2.0	2.3
162°	1.8	2.0	2.1	2.0	2.1	2.5
162.5°	1.7	2.0	2.1	2.0	2.1	2.5
163°	1.8	2.0	2.1	2.0	2.1	2.5
163.5°	2.1	2.0	2.1	2.1	2.1	2.5
164°	1.9	2.0	2.1	2.0	2.1	2.5
164.5°	2.0	2.0	2.1	2.1	2.3	2.5
165°	2.1	2.0	2.1	2.1	2.3	2.6
165.5°	2.1	2.0	2.1	2.1	2.3	2.7
166°	2.1	2.0	2.1	2.1	2.3	2.7
166.5°	2.1	2.0	2.1	2.1	2.3	2.7
167°	2.1	2.1	2.1	2.1	2.5	2.8
167.5°	2.3	2.0	2.2	2.1	2.5	2.9
168°	2.1	2.0	2.2	2.1	2.6	2.9
168.5°	2.3	2.1	2.3	2.2	2.6	2.8
169°	2.3	2.1	2.3	2.3	2.6	2.7
169.5°	2.3	2.1	2.3	2.5	2.7	2.8
170°	2.3	2.2	2.3	2.5	2.7	2.9
170.5°	2.5	2.2	2.3	2.5	2.7	2.9
171°	2.5	2.3	2.3	2.5	2.7	2.9
171.5°	2.7	2.3	2.5	2.5	2.9	2.9
172°	2.5	2.3	2.5	2.5	2.9	2.9
172.5°	2.5	2.3	2.5	2.5	2.7	2.7
173°	2.3	2.3	2.5	2.7	2.7	2.7
173.5°	2.4	2.3	2.6	2.7	2.7	2.6
174°	2.3	2.3	2.6	2.6	2.8	2.7
174.5°	2.3	2.3	2.5	2.6	2.8	2.5
175°	2.3	2.3	2.5	2.8	2.7	2.5
175.5°	2.3	2.3	2.5	2.9	2.6	2.5
176°	2.3	2.3	2.5	2.9	2.6	2.6
176.5°	2.3	2.3	2.5	2.9	2.7	2.5
177°	2.3	2.3	2.5	2.7	2.7	2.5
177.5°	2.4	2.4	2.5	2.7	2.4	2.5
178°	2.4	2.3	2.5	2.7	2.4	2.4
178.5°	2.4	2.3	2.7	2.7	2.4	2.6



TEST NUMBER: P417424

CATALOG NUMBER: SMD6R129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.3	2.3	2.3	2.3	2.3	2.3



Report Generated By E9808895 / USPTCWHP6082093







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







21.5°	392.2	391.7	391.1	390.5	391.9	391.9	392.0	392.7	392.8	393.7	394.1
22°	390.6	390.0	389.4	389.1	390.3	390.4	390.3	390.9	391.5	392.2	392.4



44°	290.9	289.9	289.3	288.8	290.7	290.7	291.2	291.9	292.8	293.5	294.4
44.5°	288.0	287.1	286.5	285.9	287.8	287.9	288.2	289.1	289.8	291.0	291.6



66.5°	145.4	144.1	143.3	142.9	143.9	144.2	144.7	145.7	146.7	147.8	148.5
67°	141.9	140.6	139.7	139.1	140.6	140.9	141.4	142.3	143.4	144.1	145.1



89°	4.1	2.9	2.3	1.9	3.8	4.2	5.0	5.6	6.2	6.5	7.0
89.5°	2.0	1.3	0.9	0.8	1.2	1.3	1.9	3.1	3.9	4.3	4.8





111.5°	0.8	0.7	0.7	0.7	0.9	0.7	0.6	0.5	0.5	0.3	0.8
112°	0.9	0.7	0.7	0.7	0.9	0.7	0.7	0.4	0.5	0.7	0.8



134°	1.3	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.8	1.0
134.5°	1.3	1.1	1.1	1.1	1.3	1.1	1.0	0.9	1.1	0.9	1.0



156.5°	2.3	2.1	1.9	1.9	1.9	1.9	1.5	1.9	2.1	2.1	1.8
157°	2.3	2.2	1.9	1.9	1.9	1.9	1.5	1.9	2.1	2.1	1.9



179°	2.5	2.4	2.7	2.9	3.1	3.1	3.1	2.8	2.7	2.3	2.4
179.5°	2.4	2.3	2.7	3.1	3.1	3.1	3.1	2.8	2.6	2.3	2.3





21.5°	394.2	394.6	394.0	393.6	392.9	392.2
22°	392.7	393.0	392.4	392.0	391.4	390.6



44°	294.7	294.0	293.5	293.1	292.1	290.9
44.5°	292.0	291.2	290.6	290.1	289.1	288.0



66.5°	149.2	148.8	148.6	147.8	146.7	145.4
67°	145.7	145.3	145.1	144.3	143.1	141.9





89°	7.2	5.9	5.9	5.8	5.0	4.1
89.5°	5.0	3.6	3.5	3.1	2.5	2.0



111.5°	0.5	0.7	0.6	0.6	0.5	0.8
112°	0.5	0.7	0.6	0.6	0.5	0.9



134°	1.0	1.2	1.1	1.1	1.1	1.3
134.5°	0.8	1.2	1.1	1.1	1.1	1.3



156.5°	1.7	1.9	2.1	1.5	2.0	2.3
157°	1.7	1.9	2.1	1.5	2.0	2.3



179°	2.6	2.8	2.9	2.8	2.4	2.5
179.5°	2.6	2.9	2.9	2.8	2.5	2.4



(END OF REPORT)