

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: P417423

Luminaire Tested: **SMD6R129SWH - 3000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417423
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 - 3000K
Description: SMD SELECTABLE CCT 3000K
Light Source: SELECTABLE CCT LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1220.8 lumens
Efficiency: N/A
Efficacy: 81.9 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

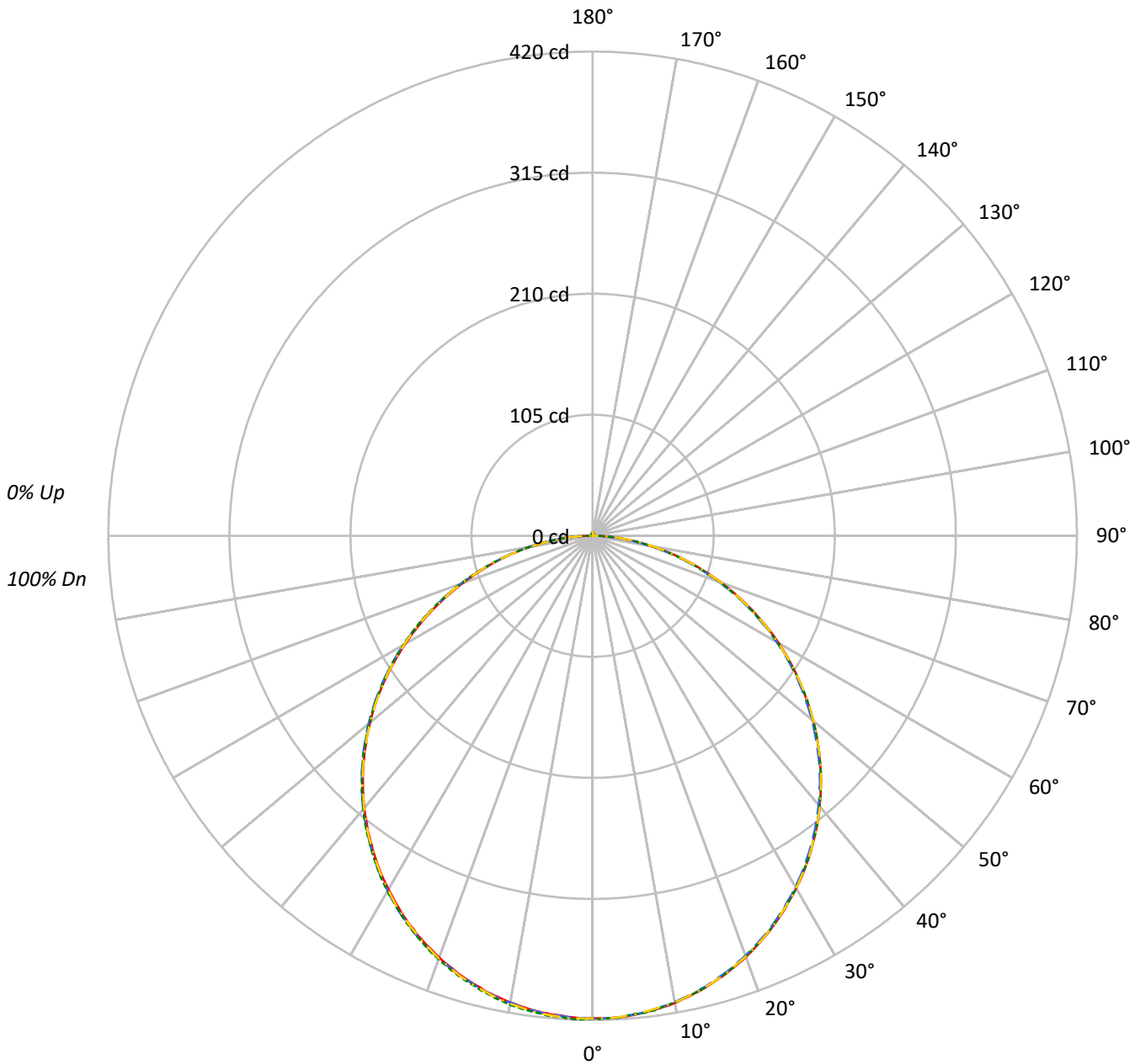
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6R129SWH - 3000K

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°	22948	22948	22948	22948
5°	22953	22920	22936	23013
10°	22901	22890	22884	22996
15°	22792	22787	22815	22878
20°	22682	22647	22711	22810
25°	22513	22495	22580	22671
30°	22345	22345	22415	22529
35°	22158	22145	22252	22346
40°	21927	21912	22041	22149
45°	21638	21630	21785	21886
50°	21287	21313	21466	21586
55°	20893	20874	21103	21218
60°	20448	20294	20579	20799
65°	19808	19626	19989	20236
70°	18994	18785	19202	19523
75°	18004	17686	18300	18682
80°	16543	16322	17269	17521
85°	14655	14404	16102	16291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	3.2
10°-20°	113.4	9.3
20°-30°	171.9	14.1
30°-40°	207.6	17.0
40°-50°	216.1	17.7
50°-60°	196.4	16.1
60°-70°	151.7	12.4
70°-80°	90.6	7.4
80°-90°	27.6	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°	0.6	0.1
170°-180°	0.2	0.0
0°-30°	324.9	26.6
0°-40°	532.6	43.6
0°-60°	945.0	77.4
0°-90°	1214.9	99.5
90°-120°	1.7	0.1
90°-150°	4.2	0.3
90°-180°	6.0	0.5
0°-180°	1220.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	419	419	419	419	419	
5°	417	416	417	418	417	40
15°	402	402	402	403	402	113
25°	372	372	373	375	372	172
35°	331	331	332	334	331	207
45°	279	279	281	282	279	215
55°	219	218	221	222	219	195
65°	153	151	154	156	153	151
75°	85	84	86	88	85	90
85°	23	23	26	26	23	25
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	1	1	1	2	1
155°	2	2	2	2	2	1
165°	2	2	3	2	2	1
175°	2	3	2	2	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6	418.6
0.5°	418.6	418.6	418.8	418.8	419.2	418.7	418.8	418.9	418.6	418.7	418.9
1°	418.6	418.6	418.9	418.8	419.1	418.6	418.8	418.9	418.6	418.7	418.3
1.5°	418.6	418.7	418.8	418.6	418.9	418.5	418.8	418.9	418.4	418.5	418.4
2°	418.6	418.7	418.8	418.4	418.9	418.5	418.8	418.6	418.3	418.3	418.1
2.5°	418.6	418.5	418.6	418.3	418.8	418.3	418.4	418.5	418.1	418.3	418.0
3°	418.4	418.2	418.2	418.1	418.7	418.2	418.3	418.1	418.0	418.3	417.9
3.5°	418.2	417.9	417.7	417.7	418.5	417.9	418.0	417.8	417.2	418.1	417.7
4°	418.0	417.6	417.4	417.5	417.4	417.6	417.4	417.7	416.9	417.7	417.5
4.5°	417.5	417.2	417.1	417.1	417.1	417.3	416.9	417.3	416.9	417.6	417.2
5°	417.1	416.9	416.8	416.6	416.5	416.9	416.8	416.6	416.8	417.1	417.0
5.5°	416.7	416.3	416.4	416.2	416.4	416.0	416.3	416.3	416.1	416.4	416.5
6°	416.1	415.9	415.9	415.8	416.3	415.4	415.8	416.1	415.9	416.0	416.3
6.5°	415.5	415.4	415.3	415.2	416.2	415.2	415.1	416.0	415.4	415.4	415.7
7°	415.1	415.0	414.6	414.6	415.5	414.9	414.4	415.1	414.8	415.2	415.1
7.5°	414.5	414.3	414.0	414.1	415.2	414.1	413.9	413.9	414.3	414.4	414.9
8°	414.1	413.7	413.4	413.4	413.9	413.2	413.2	413.5	413.6	414.1	414.2
8.5°	413.4	413.1	412.8	412.8	413.1	412.9	412.9	412.6	413.1	413.4	413.6
9°	412.8	412.3	412.1	411.9	412.4	412.2	412.2	412.0	412.5	412.8	412.9
9.5°	412.2	411.6	411.5	411.4	411.7	411.1	411.4	411.5	411.7	412.1	411.9
10°	411.4	410.9	410.6	410.5	411.2	410.5	410.8	410.9	411.1	411.2	411.2
10.5°	410.5	410.2	409.8	409.4	410.4	409.6	410.2	410.0	410.3	409.9	410.8
11°	409.5	409.3	408.9	408.6	409.3	408.7	409.2	409.4	409.4	409.6	410.1
11.5°	408.7	408.5	408.1	407.8	408.1	408.0	408.2	408.6	408.6	409.2	409.6
12°	407.9	407.5	407.2	406.8	407.5	407.3	407.3	408.1	407.9	408.1	408.4
12.5°	406.8	406.4	406.3	406.1	406.6	406.2	406.5	407.0	406.9	407.3	407.4
13°	406.0	405.6	405.3	405.0	405.4	405.0	405.7	406.3	406.4	406.9	406.6
13.5°	405.0	404.5	404.1	403.9	404.7	404.0	404.7	405.8	405.2	406.1	405.4
14°	403.9	403.5	403.1	402.8	403.6	403.3	403.5	404.6	403.8	404.6	404.5
14.5°	402.7	402.3	401.9	401.5	402.5	402.2	402.5	403.5	403.0	403.8	403.5
15°	401.6	401.2	400.8	400.5	401.5	401.3	401.5	402.2	402.0	402.2	402.3
15.5°	400.5	400.1	399.6	399.4	400.1	399.8	400.2	400.5	400.7	401.1	401.2
16°	399.3	398.8	398.3	398.2	398.8	398.5	398.9	399.3	399.7	400.2	400.1
16.5°	398.2	397.6	397.0	397.0	398.0	397.5	397.8	398.2	398.6	398.8	399.1
17°	396.9	396.4	395.9	395.4	396.4	396.4	396.6	396.9	397.4	397.5	397.9
17.5°	395.6	395.1	394.7	394.1	395.1	394.8	395.1	396.0	395.9	396.6	396.5
18°	394.2	393.7	393.2	392.8	393.8	393.6	393.9	394.5	394.5	395.2	395.3
18.5°	392.9	392.3	391.7	391.3	392.3	392.1	392.4	392.8	393.4	394.2	394.1
19°	391.5	391.0	390.4	390.1	391.3	390.8	391.1	391.1	392.1	392.9	392.6
19.5°	390.2	389.7	389.1	388.6	389.6	389.6	389.7	390.1	390.8	391.3	391.4
20°	388.8	388.1	387.5	387.2	388.2	388.0	388.2	388.6	389.3	390.1	390.2
20.5°	387.2	386.6	386.0	385.7	386.8	386.5	386.6	387.4	387.7	388.6	388.8
21°	385.7	385.0	384.5	384.2	385.3	385.0	385.3	385.7	386.1	386.9	387.2



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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°	380.9	380.3	379.7	379.5	380.6	380.4	380.6	381.1	381.8	382.5	382.7
23°	379.2	378.8	378.1	377.7	378.9	378.5	379.0	379.9	380.2	380.6	381.2
23.5°	377.6	377.0	376.4	376.1	377.4	376.9	377.4	378.3	378.6	378.9	379.6
24°	375.9	375.3	374.6	374.3	375.5	375.3	375.6	376.0	376.9	377.3	378.1
24.5°	374.1	373.5	372.9	372.5	373.9	373.4	373.8	374.1	374.8	375.5	376.3
25°	372.2	371.8	371.1	370.7	371.9	371.3	372.1	372.9	373.3	374.0	374.5
25.5°	370.5	370.0	369.3	368.9	370.1	369.8	370.4	371.0	371.8	372.1	373.1
26°	368.6	368.2	367.5	366.9	368.2	368.0	368.5	369.1	369.8	370.4	370.9
26.5°	366.8	366.4	365.6	365.2	366.3	366.5	366.5	367.2	368.1	368.3	369.0
27°	365.0	364.4	363.6	363.3	364.4	364.2	364.7	365.3	366.1	366.8	367.5
27.5°	363.1	362.3	361.8	361.4	362.5	362.2	362.7	363.9	364.0	364.8	365.6
28°	360.9	360.4	359.8	359.5	360.6	360.5	360.8	361.3	362.1	363.0	363.6
28.5°	358.9	358.6	357.8	357.5	358.6	358.5	358.7	359.4	360.0	360.9	361.6
29°	357.1	356.7	356.0	355.4	356.9	356.8	357.0	357.6	358.0	359.0	359.8
29.5°	355.1	354.6	353.9	353.3	355.0	354.9	355.0	355.9	356.1	357.1	357.6
30°	353.0	352.3	351.7	351.4	353.0	352.7	353.0	353.9	354.1	355.2	355.6
30.5°	351.0	350.3	349.7	349.4	350.8	350.6	350.9	351.4	352.1	352.9	353.5
31°	349.0	348.3	347.5	347.3	348.7	348.4	348.8	349.6	350.1	350.9	351.5
31.5°	346.9	346.1	345.4	345.1	346.6	346.4	346.6	347.8	348.1	348.8	349.4
32°	344.7	343.9	343.2	342.7	344.4	344.4	344.5	344.8	345.8	346.8	347.2
32.5°	342.4	341.7	341.0	340.6	342.1	342.1	342.3	342.9	343.6	344.4	345.2
33°	340.2	339.5	338.6	338.5	340.0	339.6	340.2	341.0	341.5	342.0	343.1
33.5°	338.0	337.1	336.4	336.0	337.7	337.5	337.9	338.8	339.2	339.8	340.6
34°	335.8	335.0	334.2	333.7	335.5	335.3	335.7	336.2	336.9	337.6	338.2
34.5°	333.4	332.6	331.8	331.7	333.1	333.1	333.3	334.1	334.6	335.5	336.1
35°	331.1	330.3	329.5	329.1	330.9	330.6	331.0	331.8	332.5	333.0	333.8
35.5°	328.7	328.1	327.2	326.7	328.6	328.2	328.6	329.6	329.9	330.9	331.2
36°	326.3	325.6	324.8	324.4	326.2	326.4	326.2	327.2	327.6	328.7	329.1
36.5°	324.0	323.2	322.3	322.1	323.7	323.9	323.9	324.6	325.2	326.3	326.7
37°	321.5	320.8	320.0	319.5	321.3	321.3	321.6	322.4	323.1	323.6	324.1
37.5°	319.2	318.3	317.6	317.0	318.9	318.7	319.2	320.0	320.5	321.4	322.1
38°	316.7	315.8	314.9	314.6	316.3	316.1	316.7	317.9	317.9	319.2	319.4
38.5°	314.2	313.3	312.5	311.8	313.9	313.6	314.1	315.5	315.5	316.6	316.9
39°	311.7	310.7	309.9	309.4	311.4	311.2	311.6	312.5	313.1	314.0	314.5
39.5°	309.0	308.1	307.5	307.0	308.8	308.6	309.1	309.7	310.6	311.4	311.9
40°	306.4	305.4	304.7	304.5	306.2	306.2	306.5	307.3	308.0	308.9	309.4
40.5°	303.6	302.9	302.3	301.8	303.5	303.6	303.9	304.8	305.5	306.0	307.0
41°	301.1	300.4	299.6	299.1	300.9	300.8	301.2	302.1	302.8	303.5	304.3
41.5°	298.4	297.6	296.9	296.3	298.1	298.4	298.6	299.4	300.0	300.9	301.6
42°	295.8	294.9	294.0	293.8	295.5	295.5	295.8	296.6	297.5	298.4	299.0
42.5°	293.1	292.1	291.7	291.0	292.8	292.8	293.2	294.0	294.8	295.7	296.2
43°	290.4	289.5	289.0	288.4	290.3	290.1	290.4	291.3	292.0	293.1	293.6
43.5°	287.6	286.7	286.2	285.7	287.4	287.4	287.8	288.6	289.5	290.3	290.8



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CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	279.1	278.2	277.7	277.4	279.0	279.0	279.4	280.2	281.0	282.0	282.7
45.5°	276.2	275.4	274.6	274.2	276.2	276.0	276.6	277.3	278.4	279.3	279.9
46°	273.5	272.5	271.7	271.6	273.3	273.1	273.5	274.4	275.3	276.4	277.1
46.5°	270.4	269.6	268.9	268.5	270.4	270.3	270.8	271.3	272.5	273.5	274.2
47°	267.5	266.6	266.0	265.8	267.6	267.4	267.7	268.7	269.5	270.7	271.4
47.5°	264.7	263.7	262.8	262.6	264.6	264.3	264.9	265.7	266.5	267.6	268.4
48°	261.7	260.6	259.9	259.9	261.6	261.5	262.0	262.8	263.8	264.7	265.5
48.5°	258.7	257.7	257.0	256.8	258.8	258.5	259.1	259.9	260.8	261.8	262.5
49°	255.8	254.8	254.2	253.9	255.9	255.7	256.2	256.9	258.0	258.8	259.6
49.5°	252.7	251.8	251.3	250.7	252.9	252.7	253.3	254.1	254.9	256.1	256.6
50°	249.6	248.7	248.2	247.7	249.9	249.9	250.2	251.3	251.7	253.2	253.6
50.5°	246.5	245.7	244.8	244.6	246.8	246.8	247.1	248.1	249.0	250.1	250.7
51°	243.6	242.7	241.8	241.5	243.8	243.6	244.1	245.1	245.7	248.5	247.8
51.5°	240.4	239.5	238.9	238.4	240.8	240.6	241.1	242.0	242.8	243.7	244.6
52°	237.3	236.4	235.7	235.5	237.7	237.6	238.1	239.0	239.7	240.5	241.4
52.5°	234.1	233.3	232.5	232.2	234.5	234.4	234.9	235.8	236.6	237.5	238.3
53°	231.1	230.1	229.4	228.9	231.3	231.3	231.6	232.7	233.6	234.5	235.3
53.5°	227.9	227.1	226.2	226.0	228.1	228.2	228.5	229.4	230.4	231.3	232.2
54°	224.7	223.8	223.1	222.7	224.8	224.9	225.3	226.2	227.2	228.0	228.9
54.5°	221.7	220.7	220.1	219.6	221.6	221.7	222.0	223.1	224.0	224.7	225.8
55°	218.6	217.6	216.9	216.4	218.4	218.5	218.8	219.8	220.8	221.8	222.6
55.5°	215.4	214.4	213.7	213.2	215.1	215.1	215.5	216.6	217.4	218.6	219.3
56°	212.3	211.1	210.5	210.0	211.7	211.9	212.2	213.1	214.0	215.2	216.0
56.5°	209.0	207.9	207.2	206.8	208.4	208.7	208.9	209.9	210.8	212.1	212.7
57°	205.7	204.7	204.0	203.6	205.2	205.2	205.7	206.6	207.5	208.6	209.5
57.5°	202.5	201.4	200.7	200.3	201.9	201.9	202.4	203.3	204.4	205.4	206.2
58°	199.3	198.3	197.4	197.0	198.6	198.6	199.2	200.0	200.9	202.1	202.9
58.5°	196.2	194.9	194.2	193.6	195.3	195.3	195.7	196.8	197.7	198.8	199.6
59°	192.8	191.8	191.0	190.3	191.8	192.0	192.4	193.5	194.3	195.2	196.3
59.5°	189.7	188.5	187.8	187.1	188.5	188.8	189.1	190.1	190.9	192.1	193.0
60°	186.5	185.3	184.5	183.8	185.1	185.0	185.8	186.7	187.7	188.9	189.7
60.5°	183.1	182.0	181.2	180.2	181.7	181.8	182.3	183.4	184.5	185.6	186.4
61°	179.9	178.6	177.8	177.0	178.3	178.4	179.0	179.9	181.0	182.2	183.1
61.5°	176.5	175.3	174.4	173.7	175.0	175.1	175.4	176.5	177.6	178.8	179.7
62°	173.1	171.9	171.1	170.2	171.7	171.7	172.1	173.2	174.3	175.5	176.3
62.5°	169.6	168.5	167.7	166.7	168.2	168.2	168.8	169.7	170.8	172.2	172.8
63°	166.3	165.2	164.1	163.3	164.8	164.8	165.6	166.4	167.4	168.7	169.5
63.5°	162.8	161.7	160.7	160.1	161.4	161.6	162.0	163.0	164.0	165.1	166.0
64°	159.4	158.2	157.3	156.7	158.2	158.1	158.7	159.6	160.8	161.6	162.6
64.5°	156.0	155.0	153.9	153.2	154.8	154.8	155.4	156.3	157.3	158.4	159.0
65°	152.7	151.6	150.5	150.0	151.3	151.4	152.0	153.0	154.1	155.1	155.8
65.5°	149.3	148.1	147.2	146.5	148.0	148.3	148.6	149.6	150.7	151.8	152.4
66°	145.8	144.6	143.7	142.8	144.6	144.9	145.3	146.1	147.1	148.2	148.9



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	135.5	134.2	133.5	132.6	134.2	134.8	135.0	135.8	137.0	138.0	138.7
68°	132.0	130.9	130.0	129.3	130.8	130.8	131.6	132.4	133.4	134.5	135.1
68.5°	128.6	127.5	126.6	126.0	127.5	127.3	128.1	129.1	130.0	131.1	131.7
69°	125.2	124.1	123.1	122.6	123.9	124.1	124.6	125.7	126.5	127.4	128.3
69.5°	122.0	120.6	119.8	119.3	120.6	120.7	121.3	122.3	123.1	124.2	125.0
70°	118.5	117.3	116.3	115.6	117.2	117.2	118.0	118.8	119.8	120.8	121.6
70.5°	115.2	114.0	113.1	112.1	113.7	114.0	114.6	115.4	116.4	117.6	118.2
71°	111.8	110.5	109.5	108.7	110.2	110.5	111.0	112.0	112.9	114.1	114.7
71.5°	108.4	107.1	106.2	105.7	106.7	107.1	107.6	108.6	109.6	110.6	111.3
72°	104.9	103.7	102.8	101.9	103.3	103.5	104.2	105.3	106.2	107.2	107.9
72.5°	101.6	100.4	99.4	98.4	99.9	100.2	100.9	101.8	102.8	103.8	104.6
73°	98.2	97.0	96.0	95.3	96.6	96.7	97.6	98.6	99.4	100.5	101.1
73.5°	94.9	93.6	92.6	91.6	93.4	93.5	94.4	95.3	96.3	97.3	97.8
74°	91.6	90.2	89.1	88.3	90.1	90.3	91.0	92.0	93.0	93.9	94.6
74.5°	88.3	86.9	85.9	85.4	86.7	86.9	87.8	88.7	89.7	90.6	91.2
75°	85.0	83.7	82.7	81.6	83.5	83.6	84.5	85.5	86.4	87.4	88.0
75.5°	81.7	80.4	79.3	78.4	80.3	80.5	81.3	82.3	83.3	84.2	84.8
76°	78.4	77.1	76.0	75.2	77.0	77.2	78.1	79.1	79.9	80.9	81.6
76.5°	75.1	73.7	72.6	72.0	73.7	74.0	74.8	75.8	76.7	77.6	78.2
77°	71.8	70.4	69.3	68.8	70.5	70.8	71.6	72.5	73.4	74.3	75.0
77.5°	68.6	67.2	66.2	65.2	67.3	67.6	68.4	69.3	70.3	71.1	71.8
78°	65.3	63.9	62.9	62.2	64.1	64.5	65.2	66.2	67.1	67.9	68.7
78.5°	62.1	60.6	59.7	58.8	60.9	61.2	62.1	62.9	63.9	64.8	65.5
79°	58.7	57.3	56.4	56.1	57.8	58.1	58.8	59.9	60.7	61.6	62.3
79.5°	55.6	54.1	53.2	52.6	54.8	55.0	55.9	56.8	57.5	58.4	59.1
80°	52.4	51.2	50.1	50.0	51.7	52.0	52.9	53.8	54.7	55.4	56.1
80.5°	49.3	48.1	47.0	46.7	48.7	49.0	49.9	50.8	51.6	52.4	53.1
81°	46.1	44.9	44.1	43.6	45.7	46.1	47.0	47.8	48.6	49.3	50.0
81.5°	43.3	42.0	41.0	40.6	42.6	43.1	43.9	44.7	45.6	46.1	46.9
82°	40.2	39.1	38.2	37.7	39.7	40.1	40.9	41.9	42.6	43.2	44.0
82.5°	37.1	36.1	35.1	34.9	36.8	37.2	38.0	38.9	39.7	40.2	41.1
83°	34.5	33.1	32.3	32.3	33.9	34.4	35.1	36.1	36.8	37.6	38.1
83.5°	31.5	30.3	29.5	29.0	31.1	31.5	32.3	33.2	34.0	34.7	35.3
84°	28.7	27.4	26.8	26.4	28.3	28.7	29.4	30.3	31.2	31.8	32.4
84.5°	26.0	24.8	23.9	23.8	25.5	26.0	26.8	27.6	28.4	29.0	29.6
85°	23.3	22.2	21.5	21.4	22.9	23.3	24.2	24.9	25.6	26.2	26.8
85.5°	20.8	19.6	18.8	18.3	20.3	20.8	21.6	22.1	23.0	23.5	24.1
86°	18.3	17.0	16.2	15.9	17.8	18.2	18.9	19.8	20.5	21.1	21.7
86.5°	15.6	14.5	13.6	13.3	15.2	15.7	16.4	17.2	18.0	18.5	19.1
87°	13.1	12.0	11.2	10.9	12.8	13.2	14.0	14.5	15.4	16.0	16.5
87.5°	10.7	9.7	8.9	8.5	10.4	10.8	11.5	12.0	13.0	13.4	13.9
88°	8.5	7.5	6.7	6.1	8.1	8.5	9.3	10.0	10.6	11.0	11.5
88.5°	6.2	5.4	4.4	3.9	5.9	6.3	7.0	7.7	8.3	8.6	9.1



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.8	0.7	0.5	0.4	0.4	0.4	0.4	0.8	1.3	2.0	2.5
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	0.8	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	0.6	0.6
108.5°	0.7	0.7	0.6	0.6	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: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.2	1.0	1.1	1.0	1.2	1.0	1.0	0.9	1.2	0.8	1.0
135.5°	1.2	1.0	1.2	1.0	1.2	1.0	1.0	0.9	1.2	0.8	1.0
136°	1.2	1.1	1.2	1.0	1.2	1.0	0.9	0.8	1.2	0.9	1.0
136.5°	1.2	1.1	1.2	1.0	1.2	1.1	0.8	0.7	1.2	0.9	1.0
137°	1.2	1.2	1.2	1.0	1.2	1.1	0.8	1.1	1.2	0.9	1.0
137.5°	1.2	1.2	1.5	1.0	1.2	1.1	0.9	0.9	1.3	1.0	1.1
138°	1.2	1.1	1.5	1.2	1.3	1.1	0.8	1.0	1.2	1.0	1.1
138.5°	1.2	1.2	1.5	1.2	1.3	1.2	0.8	0.9	1.2	1.0	1.0
139°	1.2	1.2	1.4	1.2	1.3	1.2	0.8	1.0	1.4	1.1	1.1
139.5°	1.2	1.2	1.4	1.3	1.3	1.1	0.8	1.1	1.4	1.1	1.1
140°	1.2	1.2	1.4	1.3	1.3	1.2	0.9	1.0	1.4	1.1	1.2
140.5°	1.2	1.2	1.4	1.2	1.3	1.2	0.9	1.1	1.4	1.2	1.2
141°	1.2	1.2	1.4	1.2	1.3	1.2	1.0	1.1	1.4	1.2	1.1
141.5°	1.2	1.2	1.4	1.2	1.3	1.2	0.8	1.1	1.3	1.2	1.1
142°	1.2	1.2	1.4	1.2	1.3	1.2	0.8	1.1	1.4	1.1	1.1
142.5°	1.3	1.2	1.4	1.2	1.3	1.2	0.8	1.1	1.4	1.0	1.1
143°	1.3	1.2	1.4	1.2	1.3	1.2	1.1	1.3	1.5	1.2	1.2
143.5°	1.3	1.2	1.4	1.3	1.3	1.2	1.0	1.2	1.5	1.2	1.2
144°	1.3	1.3	1.4	1.3	1.4	1.2	0.9	1.2	1.4	1.2	1.2
144.5°	1.5	1.3	1.4	1.3	1.4	1.2	1.0	1.2	1.4	1.3	1.2
145°	1.5	1.4	1.4	1.3	1.4	1.2	1.0	1.2	1.4	1.3	1.2
145.5°	1.6	1.4	1.5	1.4	1.4	1.2	1.0	1.2	1.4	1.4	1.2
146°	1.7	1.6	1.5	1.4	1.4	1.2	1.0	1.2	1.5	1.4	1.2
146.5°	1.7	1.6	1.4	1.4	1.5	1.2	1.0	1.2	1.4	1.4	1.2
147°	1.8	1.7	1.7	1.5	1.4	1.2	1.0	1.4	1.6	1.1	1.3
147.5°	1.9	1.8	1.7	1.6	1.4	1.2	1.0	1.4	1.6	1.4	1.3
148°	1.9	1.8	1.6	1.5	1.6	1.2	1.1	1.3	1.5	1.4	1.4
148.5°	1.9	1.8	1.6	1.7	1.6	1.4	1.2	1.3	1.5	1.4	1.4
149°	1.9	1.8	1.6	1.8	1.6	1.4	1.2	1.3	1.5	1.6	1.3
149.5°	1.9	1.9	1.6	1.8	1.6	1.4	1.2	1.3	1.5	1.7	1.3
150°	1.9	1.8	1.6	1.8	1.6	1.4	1.2	1.3	1.5	1.8	1.4
150.5°	2.0	1.8	1.7	1.8	1.6	1.4	1.2	1.3	1.5	1.8	1.4
151°	2.0	1.8	1.8	1.8	1.7	1.4	1.2	1.3	1.5	1.8	1.4
151.5°	2.0	1.8	1.8	1.8	1.6	1.6	1.2	1.3	1.5	1.8	1.4
152°	2.0	1.8	1.8	1.8	1.7	1.6	1.2	1.4	1.7	1.8	1.5
152.5°	2.0	1.8	1.8	1.8	1.7	1.6	1.3	1.3	1.7	1.8	1.5
153°	2.0	1.8	1.8	1.8	1.8	1.6	1.3	1.6	2.0	1.8	1.5
153.5°	2.0	1.9	1.8	1.8	1.8	1.6	1.4	1.5	1.8	1.8	1.6
154°	2.0	1.9	1.8	1.8	1.8	1.6	1.4	1.5	1.8	1.8	1.6
154.5°	2.1	2.0	1.8	1.8	1.8	1.8	1.4	1.7	1.9	2.0	1.6
155°	2.1	2.0	1.8	1.9	1.8	1.8	1.4	1.6	2.0	2.0	1.6
155.5°	2.2	2.0	1.9	2.0	1.8	1.7	1.4	1.6	2.1	2.0	1.7
156°	2.2	2.0	1.9	2.0	1.8	1.7	1.4	1.6	2.1	2.1	1.8



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.2	2.2	1.9	1.9	2.0	1.8	1.7	1.8	2.0	2.2	1.9
158°	2.2	2.1	1.9	1.9	2.0	1.8	1.6	2.0	2.2	2.2	1.9
158.5°	2.2	2.1	1.9	1.9	2.0	2.0	1.6	2.0	2.2	2.3	2.0
159°	2.2	2.2	2.1	1.9	2.0	2.0	1.8	2.0	2.2	2.3	2.0
159.5°	2.2	2.2	2.1	1.9	2.1	2.0	2.0	2.1	2.4	2.2	2.0
160°	2.2	2.2	2.0	1.9	2.2	2.1	2.0	2.2	2.4	2.2	2.1
160.5°	2.3	2.2	2.1	2.0	2.3	2.1	1.9	2.2	2.4	2.3	2.1
161°	2.2	2.2	2.1	2.0	2.2	2.2	2.0	2.2	2.5	2.3	2.1
161.5°	2.2	2.3	2.1	2.0	2.3	2.2	2.1	2.4	2.4	2.3	2.2
162°	2.4	2.3	2.2	2.0	2.3	2.1	2.2	2.4	2.4	2.5	2.2
162.5°	2.4	2.4	2.3	2.0	2.3	2.1	2.1	2.4	2.4	2.5	2.2
163°	2.4	2.5	2.2	2.0	2.3	2.1	2.0	2.4	2.4	2.5	2.2
163.5°	2.4	2.6	2.2	2.0	2.4	2.2	2.2	2.4	2.5	2.3	2.2
164°	2.4	2.6	2.2	2.0	2.5	2.4	2.2	2.5	2.4	2.5	2.2
164.5°	2.4	2.7	2.2	2.0	2.4	2.4	2.4	2.5	2.4	2.5	2.2
165°	2.5	2.8	2.2	2.1	2.4	2.4	2.4	2.5	2.6	2.6	2.3
165.5°	2.7	2.9	2.2	2.1	2.6	2.4	2.4	2.5	2.5	2.8	2.2
166°	2.7	2.9	2.2	2.1	2.6	2.4	2.5	2.4	2.5	2.8	2.2
166.5°	2.7	2.9	2.2	2.1	2.6	2.4	2.4	2.4	2.5	2.7	2.7
167°	2.8	2.9	2.2	2.1	2.7	2.5	2.4	2.4	2.5	2.7	2.5
167.5°	2.8	2.9	2.4	2.1	2.7	2.5	2.4	2.4	2.5	2.7	2.6
168°	2.8	2.8	2.4	2.1	2.8	2.5	2.4	2.4	2.5	4.3	2.4
168.5°	2.8	2.7	2.4	2.2	2.7	2.8	2.4	2.4	2.5	2.5	2.4
169°	2.6	2.7	2.4	2.2	2.7	2.8	2.4	2.4	2.5	2.5	2.4
169.5°	2.7	2.7	2.4	2.3	2.7	2.7	2.4	2.4	2.5	2.5	2.4
170°	2.8	2.7	2.4	2.3	2.7	2.7	2.4	2.4	2.5	2.3	2.3
170.5°	2.8	2.6	2.4	2.3	2.7	2.7	2.4	2.4	2.5	2.2	2.4
171°	2.8	2.6	2.4	2.3	2.7	2.7	2.4	2.4	2.5	2.4	2.3
171.5°	2.8	2.6	2.4	2.3	2.7	2.7	2.6	2.4	2.5	2.4	2.2
172°	2.9	2.6	2.4	2.3	2.7	2.7	2.6	2.4	2.6	2.4	2.2
172.5°	2.7	2.5	2.4	2.3	2.7	2.7	2.7	2.4	2.6	2.4	2.3
173°	2.6	2.6	2.3	2.3	2.7	2.7	2.7	2.4	2.6	2.4	2.2
173.5°	2.6	2.5	2.5	2.3	2.7	2.7	2.7	2.4	2.6	2.4	2.2
174°	2.6	2.5	2.4	2.3	2.7	2.7	2.7	2.4	2.6	2.4	2.2
174.5°	2.5	2.5	2.5	2.3	2.7	2.7	2.8	2.4	2.7	2.4	2.2
175°	2.5	2.5	2.4	2.3	2.7	2.7	2.7	2.4	2.4	2.4	2.2
175.5°	2.5	2.5	2.4	2.3	2.7	2.7	2.7	2.4	2.4	2.5	2.2
176°	2.5	2.5	2.4	2.3	2.7	2.7	2.7	2.4	2.2	2.1	2.2
176.5°	2.4	2.4	2.4	2.3	2.7	2.7	2.5	2.4	2.3	2.1	2.2
177°	2.4	2.4	2.4	2.3	2.7	2.8	2.5	2.5	2.3	2.0	2.3
177.5°	2.4	2.5	2.4	2.4	2.7	2.8	2.5	2.5	2.4	2.1	2.3
178°	2.4	2.4	2.3	2.6	2.8	2.8	2.8	2.5	2.4	2.0	2.2
178.5°	2.5	2.4	2.4	2.9	3.1	2.9	3.0	2.6	2.4	2.3	2.4



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	418.6	418.6	418.6	418.6	418.6	418.6
0.5°	418.8	419.3	419.3	418.8	418.9	418.6
1°	418.8	419.4	419.3	418.8	418.9	418.6
1.5°	418.9	419.8	419.3	418.8	418.9	418.6
2°	418.5	419.7	419.1	418.8	418.9	418.6
2.5°	418.4	419.6	418.9	418.8	418.6	418.6
3°	418.2	419.3	418.9	418.8	418.2	418.4
3.5°	418.1	418.5	418.6	418.6	418.2	418.2
4°	417.8	418.5	418.2	418.3	418.1	418.0
4.5°	417.5	418.4	417.8	417.9	417.8	417.5
5°	416.9	418.2	417.4	417.5	417.6	417.1
5.5°	416.7	417.9	417.1	417.2	417.2	416.7
6°	416.4	417.2	416.7	416.8	416.7	416.1
6.5°	416.0	416.7	416.3	416.3	415.7	415.5
7°	415.2	416.4	416.0	415.8	415.4	415.1
7.5°	414.9	415.9	415.4	415.2	415.1	414.5
8°	414.4	415.3	414.9	414.7	414.2	414.1
8.5°	413.9	414.9	414.1	414.1	413.8	413.4
9°	413.1	414.1	413.5	413.4	413.3	412.8
9.5°	412.1	413.7	413.0	412.8	412.4	412.2
10°	411.2	413.1	412.4	412.3	411.5	411.4
10.5°	410.8	412.1	411.4	411.1	410.8	410.5
11°	409.8	411.1	410.5	410.5	410.1	409.5
11.5°	409.5	410.5	409.6	409.8	409.2	408.7
12°	408.6	409.7	408.9	408.9	408.4	407.9
12.5°	407.9	408.5	408.0	407.8	407.4	406.8
13°	406.8	407.5	407.2	406.9	406.4	406.0
13.5°	405.9	406.7	406.3	405.8	405.4	405.0
14°	404.9	405.5	405.3	404.8	404.5	403.9
14.5°	403.7	404.2	404.1	403.9	403.3	402.7
15°	402.6	403.1	403.0	402.9	402.2	401.6
15.5°	401.6	402.2	401.8	401.7	401.1	400.5
16°	400.4	401.1	400.9	400.5	399.9	399.3
16.5°	399.3	400.0	399.6	399.4	398.7	398.2
17°	398.0	398.8	398.4	398.1	397.5	396.9
17.5°	396.8	397.5	397.0	396.7	396.2	395.6
18°	395.4	396.3	395.7	395.5	395.1	394.2
18.5°	394.3	394.8	394.4	394.2	393.7	392.9
19°	393.0	393.6	392.9	392.8	392.3	391.5
19.5°	391.7	392.3	391.6	391.4	391.1	390.2
20°	390.2	391.0	390.3	390.1	389.6	388.8
20.5°	389.0	389.4	388.8	388.6	388.0	387.2
21°	387.6	388.0	387.4	387.0	386.4	385.7



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	384.2	383.3	382.8	382.4	381.7	380.9
23°	381.3	381.7	381.3	380.7	380.1	379.2
23.5°	379.8	380.0	379.6	379.0	378.5	377.6
24°	378.1	378.3	377.9	377.3	376.7	375.9
24.5°	376.5	376.6	376.1	375.5	375.0	374.1
25°	375.0	374.8	374.4	374.0	373.2	372.2
25.5°	373.1	373.0	372.5	372.1	371.4	370.5
26°	371.4	371.3	370.7	370.2	369.6	368.6
26.5°	369.4	369.4	368.9	368.4	367.7	366.8
27°	367.5	367.5	367.0	366.5	365.9	365.0
27.5°	365.7	365.5	365.1	364.6	364.0	363.1
28°	363.8	363.5	363.2	362.8	362.1	360.9
28.5°	361.9	361.7	361.2	360.9	360.1	358.9
29°	359.7	359.7	359.3	358.8	358.2	357.1
29.5°	357.8	358.1	357.5	356.8	356.2	355.1
30°	355.8	355.9	355.5	354.7	354.1	353.0
30.5°	354.0	353.9	353.5	352.6	352.0	351.0
31°	351.9	351.8	351.4	350.5	349.9	349.0
31.5°	349.8	349.8	349.1	348.4	347.9	346.9
32°	347.5	347.7	347.0	346.4	345.8	344.7
32.5°	345.5	345.6	344.9	344.3	343.5	342.4
33°	343.2	343.1	342.7	342.0	341.3	340.2
33.5°	340.8	340.9	340.4	339.7	339.0	338.0
34°	338.7	338.5	338.1	337.6	336.8	335.8
34.5°	336.4	336.2	335.9	335.3	334.6	333.4
35°	334.2	333.9	333.4	332.9	332.3	331.1
35.5°	331.8	331.6	331.1	330.5	329.9	328.7
36°	329.4	329.1	328.7	328.1	327.5	326.3
36.5°	327.0	326.8	326.4	325.7	325.1	324.0
37°	324.5	324.6	324.0	323.5	322.5	321.5
37.5°	322.1	322.2	321.4	320.9	320.1	319.2
38°	319.7	319.7	319.0	318.4	317.6	316.7
38.5°	317.4	317.3	316.6	315.9	315.2	314.2
39°	314.9	314.7	314.0	313.3	312.5	311.7
39.5°	312.2	312.1	311.4	310.9	309.9	309.0
40°	309.7	309.5	308.8	308.3	307.4	306.4
40.5°	307.3	306.9	306.1	305.6	304.7	303.6
41°	304.8	304.1	303.5	303.0	302.1	301.1
41.5°	302.1	301.5	300.7	300.3	299.4	298.4
42°	299.4	298.9	298.2	297.7	296.6	295.8
42.5°	296.5	296.2	295.4	295.0	293.9	293.1
43°	294.0	293.3	292.7	292.2	291.3	290.4
43.5°	291.5	290.7	290.2	289.7	288.8	287.6



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	283.1	282.3	281.7	281.3	280.3	279.1
45.5°	280.2	279.5	278.9	278.3	277.5	276.2
46°	277.5	276.7	276.0	275.5	274.4	273.5
46.5°	274.6	273.6	273.3	272.7	271.5	270.4
47°	271.9	270.9	270.3	269.8	268.6	267.5
47.5°	268.8	267.9	267.2	266.8	265.7	264.7
48°	265.8	264.8	264.3	263.7	262.6	261.7
48.5°	263.0	261.9	261.3	260.8	259.8	258.7
49°	259.9	258.8	258.3	257.8	256.7	255.8
49.5°	256.9	256.0	255.4	254.8	253.9	252.7
50°	254.2	253.1	252.3	251.8	250.6	249.6
50.5°	250.9	249.8	249.3	248.9	247.6	246.5
51°	248.1	247.0	246.2	245.8	244.7	243.6
51.5°	244.9	243.9	243.1	242.7	241.5	240.4
52°	241.9	240.8	240.2	239.6	238.4	237.3
52.5°	238.9	237.8	237.0	236.5	235.3	234.1
53°	235.7	234.7	233.8	233.4	232.2	231.1
53.5°	232.7	231.3	230.8	230.3	229.1	227.9
54°	229.6	228.1	227.6	227.0	225.9	224.7
54.5°	226.4	225.0	224.4	223.9	222.9	221.7
55°	223.1	222.0	221.3	220.9	219.8	218.6
55.5°	219.8	218.7	218.3	217.6	216.6	215.4
56°	216.7	215.6	215.1	214.5	213.3	212.3
56.5°	213.4	212.3	212.0	211.3	210.2	209.0
57°	210.1	209.2	208.7	208.1	206.9	205.7
57.5°	206.9	205.9	205.6	204.9	203.8	202.5
58°	203.7	202.6	202.3	201.6	200.6	199.3
58.5°	200.4	199.4	199.1	198.4	197.4	196.2
59°	197.1	196.1	195.9	195.2	194.1	192.8
59.5°	193.7	192.9	192.6	191.8	190.8	189.7
60°	190.6	189.7	189.3	188.6	187.6	186.5
60.5°	187.3	186.4	186.1	185.3	184.4	183.1
61°	183.7	183.1	182.8	182.2	181.1	179.9
61.5°	180.3	179.8	179.5	178.7	177.8	176.5
62°	176.9	176.4	176.0	175.3	174.3	173.1
62.5°	173.6	173.1	172.7	172.0	171.0	169.6
63°	170.1	169.7	169.3	168.6	167.6	166.3
63.5°	166.8	166.3	166.0	165.2	164.1	162.8
64°	163.2	162.8	162.6	161.9	160.6	159.4
64.5°	159.8	159.4	159.2	158.4	157.3	156.0
65°	156.4	156.0	155.8	155.1	154.0	152.7
65.5°	153.1	152.6	152.4	151.6	150.4	149.3
66°	149.5	149.2	148.9	148.2	147.1	145.8



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	139.4	138.8	138.5	137.9	136.7	135.5
68°	135.9	135.4	135.2	134.4	133.4	132.0
68.5°	132.4	132.0	131.7	131.0	130.0	128.6
69°	129.0	128.6	128.3	127.6	126.6	125.2
69.5°	125.6	125.1	124.9	124.1	123.1	122.0
70°	122.2	121.8	121.6	120.8	119.9	118.5
70.5°	118.8	118.4	118.1	117.5	116.6	115.2
71°	115.5	115.1	114.9	114.1	113.2	111.8
71.5°	112.1	111.6	111.5	110.8	109.8	108.4
72°	108.6	108.3	108.0	107.3	106.4	104.9
72.5°	105.3	104.8	104.8	104.0	102.9	101.6
73°	101.8	101.4	101.4	100.7	99.6	98.2
73.5°	98.5	98.1	98.0	97.4	96.3	94.9
74°	95.2	94.8	94.6	94.0	92.9	91.6
74.5°	91.9	91.5	91.3	90.7	89.6	88.3
75°	88.6	88.2	88.1	87.4	86.4	85.0
75.5°	85.4	84.9	84.8	84.2	83.2	81.7
76°	82.3	81.5	81.6	80.8	79.9	78.4
76.5°	78.9	78.3	78.2	77.6	76.5	75.1
77°	75.6	75.0	74.9	74.3	73.2	71.8
77.5°	72.4	71.7	71.6	71.0	69.9	68.6
78°	69.3	68.4	68.4	67.8	66.7	65.3
78.5°	66.0	65.2	65.2	64.5	63.3	62.1
79°	63.0	61.9	61.9	61.3	60.1	58.7
79.5°	59.6	58.6	58.6	58.0	56.9	55.6
80°	56.8	55.5	55.4	54.8	53.7	52.4
80.5°	53.7	52.2	52.2	51.7	50.6	49.3
81°	50.7	49.1	49.2	48.5	47.6	46.1
81.5°	47.6	46.0	46.1	45.6	44.5	43.3
82°	44.5	43.1	43.1	42.6	41.5	40.2
82.5°	41.6	40.1	40.0	39.6	38.6	37.1
83°	38.9	37.1	37.1	36.6	35.7	34.5
83.5°	35.9	34.2	34.2	33.8	32.8	31.5
84°	32.9	31.4	31.3	31.0	30.0	28.7
84.5°	30.2	28.5	28.6	28.1	27.2	26.0
85°	27.5	25.9	25.9	25.4	24.6	23.3
85.5°	24.8	23.1	23.2	22.9	21.9	20.8
86°	22.1	20.6	20.6	20.2	19.3	18.3
86.5°	19.4	17.9	18.0	17.5	16.7	15.6
87°	17.1	15.4	15.3	14.9	14.2	13.1
87.5°	14.5	12.8	12.9	12.5	11.7	10.7
88°	11.8	10.4	10.3	10.0	9.4	8.5
88.5°	9.4	7.9	8.0	7.6	7.1	6.2



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.7	1.7	1.7	1.4	1.0	0.8
90.5°	0.9	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: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	1.1	1.1	1.0	1.0	1.2
135.5°	0.8	1.1	1.1	1.0	1.0	1.2
136°	0.8	1.1	1.1	1.0	1.0	1.2
136.5°	1.0	1.1	1.1	1.0	1.0	1.2
137°	1.0	1.1	1.1	1.0	1.0	1.2
137.5°	0.8	1.1	1.1	1.0	1.0	1.2
138°	0.8	1.1	1.1	1.0	1.0	1.2
138.5°	0.9	1.1	1.1	1.0	1.0	1.2
139°	0.8	1.1	1.1	1.0	1.0	1.2
139.5°	0.9	1.1	1.1	1.0	1.0	1.2
140°	0.9	1.1	1.1	1.0	1.0	1.2
140.5°	0.8	1.1	1.1	1.0	1.0	1.2
141°	0.9	1.1	1.1	1.0	1.0	1.2
141.5°	0.8	1.1	1.1	1.0	1.0	1.2
142°	0.8	1.1	1.1	1.0	1.0	1.2
142.5°	0.9	1.1	1.1	1.0	1.0	1.3
143°	0.9	1.1	1.1	1.0	1.0	1.3
143.5°	0.9	1.1	1.1	1.0	1.0	1.3
144°	1.1	1.1	1.1	1.0	1.0	1.3
144.5°	1.0	1.1	1.2	1.0	1.0	1.5
145°	1.0	1.1	1.2	1.0	1.0	1.5
145.5°	1.0	1.1	1.2	1.0	1.2	1.6
146°	1.1	1.1	1.2	1.1	1.2	1.7
146.5°	1.1	1.1	1.3	1.1	1.2	1.7
147°	1.1	1.1	1.2	1.0	1.2	1.8
147.5°	1.2	1.1	1.2	1.2	1.2	1.9
148°	1.2	1.1	1.4	1.2	1.3	1.9
148.5°	1.2	1.2	1.5	1.2	1.3	1.9
149°	1.2	1.2	1.5	1.2	1.3	1.9
149.5°	1.2	1.2	1.7	1.2	1.3	1.9
150°	1.3	1.2	1.7	1.2	1.4	1.9
150.5°	1.3	1.3	1.8	1.2	1.6	2.0
151°	1.3	1.3	1.8	1.3	1.6	2.0
151.5°	1.4	1.4	1.8	1.3	1.6	2.0
152°	1.4	1.4	1.8	1.2	1.8	2.0
152.5°	1.4	1.4	1.8	1.2	1.9	2.0
153°	1.4	1.6	2.0	1.2	1.9	2.0
153.5°	1.4	1.7	2.0	1.2	2.0	2.0
154°	1.4	1.7	2.0	1.2	2.0	2.0
154.5°	1.5	1.8	2.0	1.2	2.0	2.1
155°	1.5	1.7	2.0	1.4	2.0	2.1
155.5°	1.6	1.7	2.1	1.4	2.0	2.2
156°	1.6	1.8	2.0	1.4	2.0	2.2



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417423

CATALOG NUMBER: SMD6R129SWH - 3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.2	2.2	2.2	2.2	2.2	2.2



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	384.1	383.6	383.0	382.4	383.8	383.8	383.9	384.6	384.6	385.5	385.9
22°	382.5	382.0	381.3	381.0	382.2	382.3	382.2	382.8	383.4	384.1	384.2



44°	284.9	283.9	283.3	282.9	284.7	284.7	285.1	285.9	286.7	287.4	288.3
44.5°	282.0	281.1	280.6	280.0	281.9	281.9	282.3	283.1	283.8	285.0	285.5



66.5°	142.3	141.2	140.3	139.9	141.0	141.2	141.7	142.7	143.6	144.7	145.4
67°	139.0	137.7	136.8	136.2	137.7	138.0	138.4	139.4	140.4	141.2	142.1



89°	4.1	2.9	2.3	1.9	3.7	4.1	4.9	5.5	6.0	6.4	6.8
89.5°	1.9	1.3	0.9	0.8	1.2	1.3	1.9	3.0	3.9	4.2	4.7



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



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



156.5°	2.2	2.0	1.8	1.9	1.9	1.8	1.5	1.8	2.0	2.1	1.8
157°	2.2	2.1	1.9	1.9	1.9	1.8	1.5	1.8	2.0	2.1	1.8



179°	2.5	2.4	2.6	2.9	3.1	3.0	3.0	2.8	2.6	2.3	2.4
179.5°	2.4	2.3	2.6	3.0	3.1	3.0	3.0	2.8	2.5	2.3	2.3





21.5°	386.1	386.5	385.9	385.4	384.7	384.1
22°	384.6	384.9	384.2	383.9	383.3	382.5



44°	288.6	288.0	287.4	287.0	286.0	284.9
44.5°	286.0	285.1	284.6	284.1	283.1	282.0



66.5°	146.1	145.8	145.5	144.7	143.7	142.3
67°	142.7	142.3	142.1	141.3	140.1	139.0



89°	7.0	5.8	5.8	5.6	4.9	4.1
89.5°	4.9	3.5	3.5	3.0	2.5	1.9



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	0.8



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



156.5°	1.6	1.9	2.0	1.5	2.0	2.2
157°	1.6	1.9	2.0	1.5	2.0	2.2



179°	2.5	2.7	2.8	2.8	2.4	2.5
179.5°	2.5	2.9	2.9	2.8	2.5	2.4



(END OF REPORT)