

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: P417426

Luminaire Tested: **SMD6R129SWH - 5000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417426
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 - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1297.2 lumens
Efficiency: N/A
Efficacy: 87.1 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

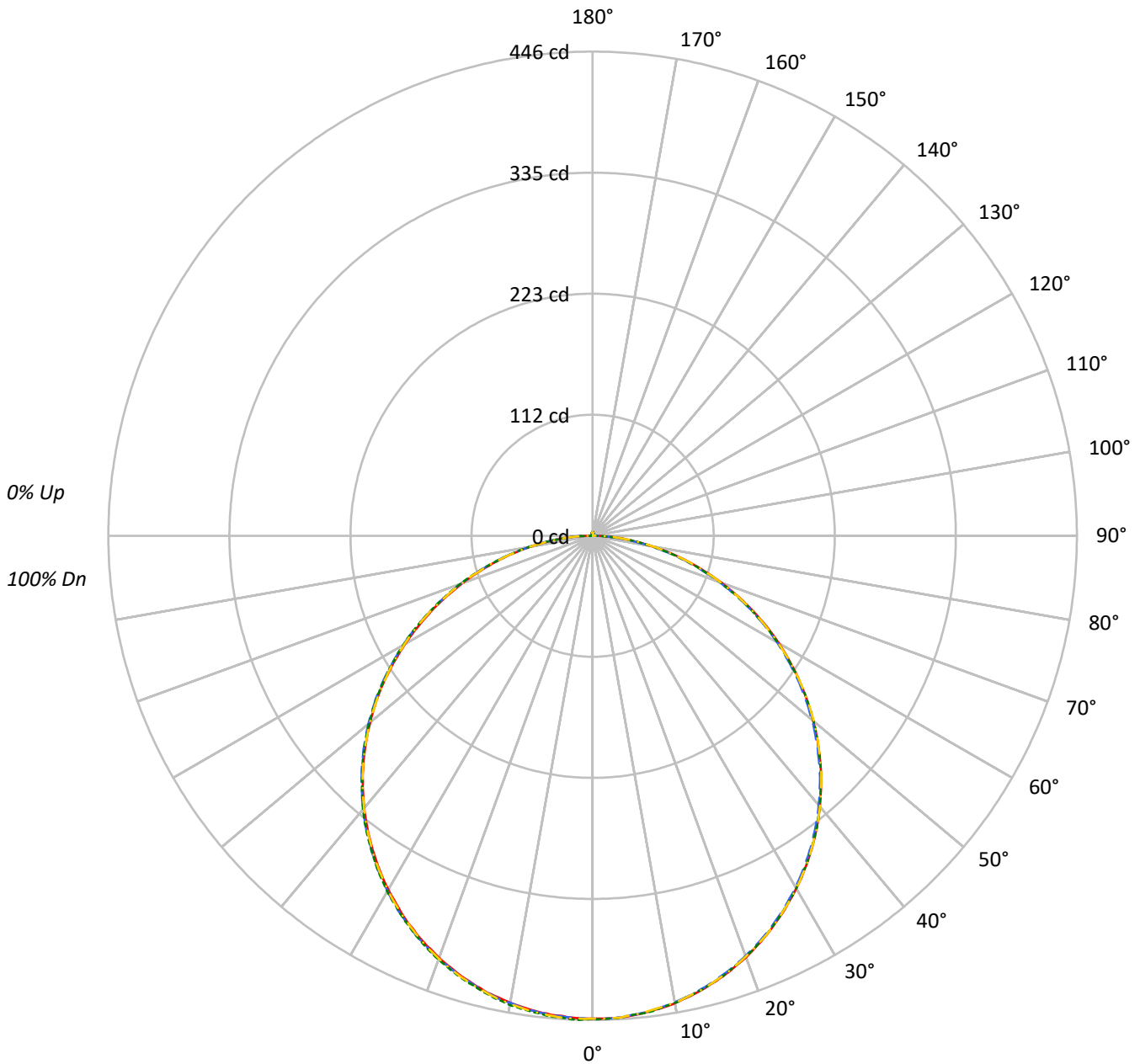
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6R129SWH - 5000K

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°	24384	24384	24384	24384
5°	24389	24356	24373	24455
10°	24332	24320	24315	24437
15°	24217	24211	24240	24313
20°	24105	24059	24129	24234
25°	23923	23905	23995	24086
30°	23738	23744	23820	23940
35°	23544	23530	23644	23744
40°	23301	23279	23422	23537
45°	22995	22979	23142	23258
50°	22626	22643	22814	22933
55°	22202	22183	22422	22546
60°	21720	21566	21862	22093
65°	21040	20858	21247	21494
70°	20180	19955	20404	20741
75°	19126	18787	19444	19846
80°	17584	17332	18342	18626
85°	15599	15284	17109	17297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	3.2
10°-20°	120.5	9.3
20°-30°	182.6	14.1
30°-40°	220.6	17.0
40°-50°	229.6	17.7
50°-60°	208.7	16.1
60°-70°	161.2	12.4
70°-80°	96.2	7.4
80°-90°	29.3	2.3
90°-100°	0.5	0.0
100°-110°	0.6	0.0
110°-120°	0.8	0.1
120°-130°	0.9	0.1
130°-140°	0.9	0.1
140°-150°	0.8	0.1
150°-160°	0.9	0.1
160°-170°	0.7	0.1
170°-180°	0.3	0.0
0°-30°	345.3	26.6
0°-40°	565.9	43.6
0°-60°	1004.2	77.4
0°-90°	1290.9	99.5
90°-120°	1.8	0.1
90°-150°	4.4	0.3
90°-180°	6.0	0.5
0°-180°	1297.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	445	445	445	445	445	
5°	443	443	443	444	443	42
15°	427	427	427	428	427	120
25°	396	395	397	398	396	182
35°	352	352	353	355	352	220
45°	297	296	298	300	297	229
55°	232	232	235	236	232	208
65°	162	161	164	166	162	160
75°	90	89	92	94	90	95
85°	25	24	27	28	25	27
90°	1	0	1	2	1	2
95°	1	0	0	1	1	0
105°	1	1	0	1	1	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	3	3	2	3	1
175°	3	3	2	2	3	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°	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8	444.8
0.5°	444.8	444.8	445.0	445.0	445.5	444.9	445.0	445.1	444.8	444.9	445.1
1°	444.8	444.8	445.1	445.0	445.3	444.8	445.0	445.1	444.8	444.9	444.5
1.5°	444.8	444.9	445.0	444.8	445.1	444.7	445.0	445.1	444.6	444.7	444.5
2°	444.8	444.9	445.0	444.6	445.1	444.7	445.0	444.8	444.5	444.5	444.3
2.5°	444.8	444.7	444.8	444.5	445.0	444.5	444.6	444.7	444.2	444.5	444.1
3°	444.6	444.4	444.4	444.3	444.9	444.4	444.5	444.3	444.2	444.5	444.1
3.5°	444.4	444.0	443.8	443.9	444.6	444.1	444.2	443.9	443.3	444.3	443.9
4°	444.1	443.7	443.5	443.6	443.5	443.7	443.5	443.8	443.0	443.8	443.6
4.5°	443.7	443.3	443.2	443.2	443.2	443.4	443.0	443.4	443.0	443.7	443.3
5°	443.2	443.0	442.9	442.7	442.6	443.0	442.9	442.7	442.9	443.2	443.1
5.5°	442.8	442.4	442.4	442.2	442.5	442.0	442.4	442.4	442.1	442.5	442.6
6°	442.1	441.9	441.9	441.8	442.4	441.4	441.8	442.1	441.9	442.0	442.3
6.5°	441.5	441.4	441.3	441.2	442.2	441.2	441.1	442.0	441.4	441.4	441.8
7°	441.0	440.9	440.6	440.6	441.5	440.9	440.3	441.1	440.7	441.1	441.1
7.5°	440.4	440.2	439.9	440.0	441.1	440.1	439.8	439.8	440.2	440.3	440.8
8°	440.0	439.6	439.3	439.2	439.7	439.1	439.1	439.4	439.5	440.0	440.1
8.5°	439.3	438.9	438.7	438.6	439.0	438.7	438.7	438.5	438.9	439.3	439.4
9°	438.7	438.1	437.9	437.7	438.2	438.0	438.0	437.8	438.3	438.6	438.8
9.5°	438.0	437.4	437.2	437.1	437.4	436.8	437.2	437.3	437.5	437.9	437.7
10°	437.1	436.6	436.3	436.2	436.9	436.2	436.5	436.6	436.8	436.9	436.9
10.5°	436.2	435.9	435.4	435.0	436.1	435.3	435.8	435.6	435.9	435.6	436.5
11°	435.1	434.9	434.5	434.2	434.9	434.2	434.8	435.1	435.0	435.2	435.7
11.5°	434.3	434.0	433.7	433.3	433.6	433.5	433.8	434.2	434.2	434.8	435.2
12°	433.4	433.0	432.7	432.2	433.0	432.8	432.8	433.7	433.4	433.6	433.9
12.5°	432.3	431.8	431.7	431.5	432.0	431.6	432.0	432.5	432.3	432.8	432.9
13°	431.4	431.0	430.6	430.3	430.8	430.4	431.1	431.7	431.9	432.4	432.0
13.5°	430.3	429.8	429.4	429.2	430.0	429.3	430.0	431.2	430.6	431.6	430.8
14°	429.2	428.8	428.3	428.0	428.9	428.5	428.7	429.9	429.1	429.9	429.9
14.5°	427.9	427.5	427.1	426.6	427.7	427.3	427.6	428.8	428.3	429.0	428.7
15°	426.7	426.3	425.9	425.6	426.6	426.4	426.6	427.4	427.1	427.4	427.5
15.5°	425.6	425.1	424.6	424.3	425.1	424.8	425.2	425.5	425.8	426.2	426.3
16°	424.3	423.7	423.2	423.2	423.8	423.5	423.9	424.2	424.7	425.3	425.2
16.5°	423.1	422.5	421.9	421.8	422.9	422.4	422.7	423.2	423.6	423.8	424.0
17°	421.8	421.2	420.7	420.2	421.2	421.2	421.4	421.7	422.3	422.4	422.8
17.5°	420.4	419.8	419.3	418.8	419.8	419.5	419.9	420.7	420.7	421.4	421.3
18°	418.9	418.3	417.8	417.4	418.5	418.2	418.5	419.2	419.2	419.9	420.0
18.5°	417.5	416.8	416.3	415.8	416.9	416.7	417.0	417.4	418.0	418.8	418.8
19°	416.0	415.5	414.8	414.6	415.7	415.3	415.5	415.6	416.6	417.5	417.2
19.5°	414.6	414.0	413.4	413.0	414.0	413.9	414.1	414.5	415.3	415.7	415.9
20°	413.2	412.4	411.8	411.4	412.4	412.3	412.5	412.9	413.6	414.5	414.6
20.5°	411.4	410.8	410.2	409.8	411.0	410.7	410.8	411.6	412.0	412.9	413.2
21°	409.8	409.1	408.6	408.2	409.4	409.1	409.4	409.9	410.3	411.1	411.4



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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°	404.7	404.1	403.5	403.2	404.4	404.2	404.4	404.9	405.7	406.4	406.6
23°	402.9	402.4	401.8	401.4	402.6	402.2	402.7	403.7	404.0	404.4	405.1
23.5°	401.3	400.6	399.9	399.6	401.0	400.4	401.0	402.0	402.3	402.6	403.4
24°	399.4	398.8	398.0	397.7	399.0	398.7	399.1	399.5	400.4	400.9	401.7
24.5°	397.5	396.9	396.3	395.8	397.3	396.8	397.2	397.5	398.3	399.0	399.9
25°	395.5	395.1	394.3	393.9	395.2	394.6	395.4	396.3	396.7	397.4	398.0
25.5°	393.6	393.1	392.4	391.9	393.2	392.9	393.6	394.3	395.0	395.4	396.5
26°	391.7	391.3	390.5	389.9	391.3	391.0	391.5	392.2	392.9	393.5	394.1
26.5°	389.8	389.3	388.4	388.0	389.2	389.4	389.4	390.2	391.1	391.4	392.1
27°	387.9	387.2	386.4	386.0	387.2	386.9	387.5	388.2	389.0	389.7	390.5
27.5°	385.8	385.0	384.4	384.0	385.1	384.9	385.4	386.7	386.8	387.6	388.5
28°	383.5	382.9	382.3	382.0	383.2	383.0	383.4	383.9	384.7	385.7	386.3
28.5°	381.3	381.0	380.2	379.8	381.1	381.0	381.2	381.9	382.5	383.5	384.3
29°	379.4	379.0	378.2	377.7	379.3	379.1	379.3	380.0	380.4	381.5	382.3
29.5°	377.3	376.8	376.1	375.4	377.2	377.1	377.2	378.2	378.4	379.4	379.9
30°	375.0	374.4	373.7	373.4	375.1	374.8	375.1	376.0	376.3	377.4	377.8
30.5°	372.9	372.2	371.6	371.2	372.8	372.5	372.9	373.4	374.1	375.0	375.7
31°	370.8	370.1	369.2	369.1	370.5	370.2	370.7	371.4	372.0	372.9	373.5
31.5°	368.6	367.8	367.0	366.7	368.2	368.1	368.3	369.5	369.9	370.7	371.2
32°	366.2	365.4	364.7	364.1	365.9	365.9	366.1	366.4	367.5	368.5	368.9
32.5°	363.8	363.1	362.3	361.9	363.5	363.5	363.7	364.4	365.1	366.0	366.8
33°	361.5	360.7	359.8	359.6	361.3	360.9	361.5	362.4	362.9	363.4	364.6
33.5°	359.1	358.2	357.4	357.0	358.9	358.7	359.0	359.9	360.4	361.1	361.9
34°	356.8	355.9	355.1	354.6	356.5	356.3	356.7	357.3	358.0	358.7	359.4
34.5°	354.2	353.4	352.5	352.4	354.0	354.0	354.2	355.0	355.6	356.4	357.1
35°	351.8	351.0	350.1	349.7	351.6	351.3	351.7	352.5	353.3	353.9	354.7
35.5°	349.3	348.7	347.6	347.2	349.1	348.8	349.2	350.2	350.6	351.6	352.0
36°	346.7	346.0	345.1	344.7	346.6	346.8	346.6	347.7	348.1	349.2	349.7
36.5°	344.3	343.4	342.5	342.3	344.0	344.1	344.2	344.9	345.6	346.7	347.1
37°	341.6	340.9	340.0	339.5	341.4	341.4	341.8	342.6	343.3	343.9	344.4
37.5°	339.2	338.2	337.5	336.9	338.8	338.7	339.2	340.0	340.5	341.5	342.3
38°	336.5	335.6	334.6	334.2	336.1	335.9	336.5	337.8	337.8	339.2	339.4
38.5°	333.8	332.9	332.1	331.3	333.5	333.2	333.8	335.2	335.2	336.4	336.8
39°	331.2	330.2	329.3	328.8	330.8	330.7	331.1	332.0	332.7	333.7	334.2
39.5°	328.3	327.4	326.8	326.2	328.2	328.0	328.5	329.1	330.1	330.9	331.4
40°	325.6	324.6	323.8	323.5	325.3	325.3	325.7	326.5	327.3	328.2	328.8
40.5°	322.6	321.9	321.2	320.6	322.5	322.5	323.0	323.8	324.6	325.2	326.2
41°	320.0	319.1	318.3	317.8	319.7	319.6	320.1	321.0	321.7	322.5	323.4
41.5°	317.1	316.2	315.5	314.8	316.8	317.0	317.3	318.1	318.8	319.8	320.5
42°	314.3	313.4	312.4	312.2	313.9	314.0	314.3	315.2	316.1	317.0	317.7
42.5°	311.4	310.4	309.9	309.2	311.1	311.1	311.6	312.4	313.3	314.2	314.8
43°	308.6	307.6	307.1	306.5	308.4	308.3	308.6	309.6	310.3	311.4	312.0
43.5°	305.6	304.7	304.1	303.6	305.4	305.4	305.8	306.6	307.6	308.4	309.0



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CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	296.6	295.6	295.1	294.7	296.4	296.4	296.9	297.8	298.5	299.6	300.4
45.5°	293.5	292.6	291.8	291.3	293.4	293.3	293.9	294.7	295.8	296.7	297.4
46°	290.6	289.5	288.7	288.6	290.4	290.2	290.6	291.6	292.5	293.7	294.4
46.5°	287.3	286.4	285.7	285.3	287.3	287.2	287.7	288.3	289.5	290.6	291.4
47°	284.2	283.3	282.6	282.4	284.3	284.1	284.5	285.5	286.4	287.6	288.4
47.5°	281.2	280.2	279.3	279.0	281.1	280.9	281.5	282.3	283.2	284.4	285.2
48°	278.1	276.9	276.2	276.1	278.0	277.8	278.4	279.2	280.3	281.2	282.1
48.5°	274.9	273.8	273.1	272.9	274.9	274.7	275.3	276.1	277.1	278.2	279.0
49°	271.8	270.7	270.1	269.8	272.0	271.7	272.2	273.0	274.1	275.0	275.9
49.5°	268.5	267.6	267.0	266.4	268.7	268.5	269.1	270.0	270.8	272.2	272.7
50°	265.3	264.3	263.7	263.2	265.5	265.5	265.9	267.0	267.5	269.0	269.5
50.5°	261.9	261.1	260.1	259.9	262.3	262.2	262.6	263.6	264.5	265.7	266.4
51°	258.8	257.9	256.9	256.6	259.1	258.9	259.3	260.4	261.1	264.1	263.3
51.5°	255.5	254.5	253.8	253.4	255.9	255.7	256.2	257.1	257.9	259.0	259.9
52°	252.2	251.1	250.5	250.2	252.5	252.4	253.0	253.9	254.7	255.5	256.5
52.5°	248.8	247.9	247.1	246.8	249.2	249.1	249.6	250.6	251.5	252.3	253.2
53°	245.5	244.5	243.8	243.2	245.7	245.8	246.1	247.2	248.2	249.2	250.1
53.5°	242.2	241.3	240.3	240.1	242.4	242.4	242.8	243.8	244.9	245.8	246.8
54°	238.7	237.8	237.1	236.6	238.9	239.0	239.3	240.3	241.4	242.2	243.2
54.5°	235.6	234.5	233.9	233.4	235.4	235.5	235.9	237.1	238.1	238.7	239.9
55°	232.3	231.2	230.4	229.9	232.1	232.1	232.5	233.6	234.6	235.7	236.5
55.5°	228.9	227.8	227.0	226.6	228.5	228.6	229.0	230.1	231.0	232.3	233.1
56°	225.6	224.3	223.6	223.1	224.9	225.2	225.4	226.5	227.4	228.7	229.5
56.5°	222.1	220.9	220.2	219.7	221.4	221.7	221.9	223.1	224.0	225.4	226.0
57°	218.6	217.5	216.7	216.3	218.0	218.1	218.5	219.5	220.5	221.7	222.6
57.5°	215.2	214.0	213.3	212.9	214.5	214.5	215.0	216.0	217.2	218.3	219.1
58°	211.8	210.7	209.8	209.3	211.0	211.0	211.6	212.5	213.5	214.8	215.6
58.5°	208.5	207.1	206.4	205.8	207.5	207.5	208.0	209.1	210.0	211.3	212.1
59°	204.9	203.8	202.9	202.2	203.8	204.0	204.4	205.6	206.5	207.4	208.6
59.5°	201.6	200.3	199.5	198.8	200.3	200.6	200.9	202.0	202.9	204.2	205.1
60°	198.1	196.9	196.1	195.3	196.7	196.6	197.4	198.4	199.4	200.8	201.6
60.5°	194.6	193.4	192.5	191.5	193.1	193.2	193.7	194.9	196.0	197.2	198.1
61°	191.1	189.8	188.9	188.1	189.5	189.6	190.2	191.1	192.3	193.6	194.6
61.5°	187.5	186.3	185.3	184.6	186.0	186.0	186.4	187.6	188.8	190.0	190.9
62°	184.0	182.7	181.8	180.8	182.5	182.5	182.9	184.1	185.2	186.5	187.3
62.5°	180.3	179.1	178.1	177.1	178.8	178.7	179.3	180.3	181.5	182.9	183.6
63°	176.7	175.6	174.4	173.6	175.1	175.1	176.0	176.8	177.9	179.3	180.2
63.5°	173.0	171.8	170.8	170.1	171.5	171.7	172.2	173.2	174.3	175.4	176.4
64°	169.4	168.1	167.1	166.5	168.0	168.0	168.6	169.6	170.8	171.7	172.8
64.5°	165.8	164.7	163.6	162.8	164.4	164.5	165.1	166.0	167.1	168.3	168.9
65°	162.2	161.1	160.0	159.4	160.8	160.9	161.5	162.6	163.8	164.8	165.5
65.5°	158.6	157.3	156.4	155.7	157.2	157.6	157.9	158.9	160.1	161.3	162.0
66°	154.9	153.6	152.7	151.7	153.6	154.0	154.4	155.2	156.4	157.5	158.2



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	144.0	142.6	141.9	140.9	142.6	143.3	143.5	144.3	145.5	146.6	147.4
68°	140.3	139.1	138.1	137.4	139.0	139.0	139.8	140.7	141.8	143.0	143.6
68.5°	136.6	135.4	134.5	133.9	135.5	135.3	136.1	137.1	138.1	139.3	139.9
69°	133.0	131.8	130.8	130.2	131.7	131.8	132.4	133.6	134.4	135.4	136.4
69.5°	129.6	128.2	127.3	126.8	128.1	128.2	128.9	129.9	130.8	131.9	132.8
70°	125.9	124.7	123.6	122.8	124.5	124.6	125.4	126.3	127.3	128.4	129.2
70.5°	122.4	121.1	120.1	119.1	120.8	121.1	121.7	122.6	123.7	125.0	125.6
71°	118.8	117.4	116.4	115.5	117.1	117.4	117.9	119.0	120.0	121.2	121.9
71.5°	115.2	113.8	112.8	112.3	113.4	113.8	114.4	115.4	116.5	117.5	118.3
72°	111.5	110.2	109.3	108.3	109.8	110.0	110.7	111.9	112.9	113.9	114.7
72.5°	107.9	106.6	105.6	104.6	106.1	106.5	107.2	108.2	109.2	110.3	111.1
73°	104.4	103.1	102.0	101.2	102.7	102.7	103.7	104.8	105.6	106.8	107.4
73.5°	100.9	99.4	98.4	97.3	99.3	99.3	100.3	101.3	102.3	103.4	103.9
74°	97.3	95.9	94.6	93.8	95.7	95.9	96.7	97.8	98.8	99.8	100.6
74.5°	93.8	92.4	91.3	90.7	92.1	92.4	93.3	94.3	95.3	96.3	96.9
75°	90.3	88.9	87.9	86.7	88.7	88.9	89.8	90.8	91.8	92.8	93.5
75.5°	86.8	85.4	84.3	83.3	85.3	85.5	86.4	87.4	88.5	89.4	90.1
76°	83.3	81.9	80.7	79.9	81.9	82.1	83.0	84.1	85.0	86.0	86.7
76.5°	79.8	78.3	77.1	76.5	78.3	78.6	79.5	80.5	81.5	82.5	83.1
77°	76.3	74.8	73.7	73.1	74.9	75.2	76.1	77.1	78.0	78.9	79.7
77.5°	72.9	71.4	70.3	69.2	71.6	71.9	72.7	73.6	74.7	75.6	76.3
78°	69.4	67.9	66.8	66.1	68.1	68.5	69.3	70.4	71.3	72.2	73.0
78.5°	65.9	64.4	63.4	62.5	64.7	65.1	65.9	66.9	67.9	68.8	69.6
79°	62.4	60.9	59.9	59.6	61.4	61.8	62.5	63.6	64.5	65.4	66.2
79.5°	59.1	57.5	56.5	55.9	58.2	58.5	59.4	60.3	61.1	62.0	62.8
80°	55.7	54.4	53.3	53.1	54.9	55.2	56.2	57.1	58.1	58.9	59.6
80.5°	52.4	51.1	49.9	49.6	51.7	52.1	53.0	54.0	54.9	55.6	56.5
81°	49.0	47.8	46.8	46.3	48.5	49.0	49.9	50.8	51.6	52.4	53.1
81.5°	46.0	44.6	43.6	43.1	45.3	45.8	46.6	47.5	48.5	49.0	49.9
82°	42.7	41.5	40.6	40.1	42.2	42.6	43.5	44.5	45.2	45.9	46.7
82.5°	39.5	38.3	37.3	37.1	39.1	39.5	40.4	41.3	42.2	42.8	43.6
83°	36.7	35.2	34.3	34.3	36.1	36.5	37.3	38.3	39.1	39.9	40.5
83.5°	33.5	32.2	31.4	30.8	33.0	33.4	34.4	35.2	36.1	36.8	37.5
84°	30.5	29.1	28.4	28.0	30.0	30.5	31.2	32.2	33.1	33.8	34.4
84.5°	27.7	26.3	25.4	25.2	27.1	27.6	28.5	29.3	30.1	30.8	31.5
85°	24.8	23.6	22.8	22.7	24.3	24.8	25.8	26.5	27.2	27.9	28.5
85.5°	22.1	20.9	19.9	19.5	21.6	22.1	22.9	23.5	24.4	24.9	25.6
86°	19.4	18.0	17.2	16.9	18.9	19.3	20.1	21.0	21.8	22.5	23.0
86.5°	16.6	15.4	14.5	14.1	16.2	16.7	17.5	18.3	19.1	19.6	20.2
87°	13.9	12.8	11.9	11.6	13.6	14.1	14.9	15.4	16.4	17.1	17.5
87.5°	11.3	10.4	9.4	9.0	11.1	11.5	12.2	12.7	13.8	14.3	14.8
88°	9.0	8.0	7.1	6.5	8.6	9.1	9.8	10.6	11.2	11.7	12.2
88.5°	6.6	5.7	4.7	4.2	6.2	6.7	7.4	8.2	8.8	9.1	9.7



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.9	0.8	0.6	0.4	0.4	0.4	0.4	0.8	1.4	2.1	2.7
90.5°	0.7	0.6	0.6	0.3	0.5	0.4	0.2	0.2	0.3	0.7	0.7
91°	0.6	0.6	0.6	0.3	0.4	0.5	0.2	0.2	0.3	0.1	0.6
91.5°	0.7	0.6	0.5	0.2	0.4	0.4	0.1	0.2	0.3	0.1	0.6
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	0.6	0.5	0.2	0.4	0.4	0.1	0.2	0.3	0.2	0.5
93°	0.6	0.6	0.5	0.3	0.4	0.4	0.1	0.2	0.3	0.1	0.5
93.5°	0.6	0.6	0.5	0.3	0.4	0.4	0.1	0.3	0.3	0.1	0.5
94°	0.6	0.6	0.5	0.4	0.4	0.4	0.1	0.1	0.3	0.3	0.5
94.5°	0.6	0.6	0.5	0.4	0.4	0.4	0.1	0.1	0.3	0.2	0.5
95°	0.6	0.6	0.5	0.6	0.5	0.4	0.1	0.1	0.3	0.1	0.5
95.5°	0.6	0.6	0.5	0.4	0.5	0.4	0.1	0.1	0.3	0.2	0.5
96°	0.6	0.6	0.5	0.4	0.5	0.4	0.1	0.5	0.3	0.2	0.5
96.5°	0.6	0.6	0.5	0.5	0.5	0.4	0.1	0.0	0.3	0.1	0.5
97°	0.6	0.6	0.5	0.3	0.5	0.5	0.1	0.0	0.3	0.2	0.5
97.5°	0.6	0.6	0.5	0.3	0.5	0.5	0.1	0.1	0.3	0.2	0.5
98°	0.6	0.6	0.5	0.3	0.5	0.5	0.1	0.1	0.3	0.1	0.5
98.5°	0.6	0.6	0.5	0.3	0.5	0.5	0.2	0.1	0.3	0.1	0.5
99°	0.6	0.6	0.5	0.3	0.6	0.5	0.5	0.1	0.3	0.3	0.5
99.5°	0.6	0.6	0.5	0.3	0.6	0.5	0.5	0.1	0.3	0.3	0.6
100°	0.6	0.6	0.5	0.4	0.6	0.5	0.4	0.1	0.3	0.2	0.5
100.5°	0.6	0.6	0.5	0.4	0.6	0.5	0.4	0.0	0.3	0.1	0.5
101°	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.1	0.3	0.2	0.6
101.5°	0.6	0.6	0.5	0.4	0.6	0.5	0.6	0.0	0.3	0.3	0.6
102°	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.3	0.3	0.6
102.5°	0.6	0.6	0.5	0.4	0.6	0.6	0.5	0.4	0.3	0.3	0.6
103°	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.4	0.3	0.6	0.6
103.5°	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.3	0.3	0.4	0.6
104°	0.6	0.6	0.6	0.9	0.6	0.6	0.5	0.4	0.6	0.3	0.7
104.5°	0.6	0.6	0.6	0.8	0.6	0.6	0.5	0.4	0.6	0.3	0.7
105°	0.6	0.6	0.6	0.8	0.6	0.6	0.5	0.4	0.5	0.3	0.6
105.5°	0.6	0.6	0.6	0.8	0.7	0.6	0.5	0.5	0.5	0.3	0.6
106°	0.6	0.6	0.6	0.8	0.6	0.6	0.5	0.5	0.5	0.3	0.6
106.5°	0.6	0.6	0.7	0.8	0.6	0.6	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	0.6	0.5	0.3	0.6
107.5°	0.8	0.6	0.6	0.4	0.7	0.7	0.5	0.6	0.5	0.4	0.6
108°	0.8	0.8	0.6	0.5	0.7	0.6	0.5	0.6	0.6	0.7	0.6
108.5°	0.7	0.8	0.6	0.7	0.7	0.6	0.5	0.5	0.6	0.5	0.6
109°	0.7	0.7	0.7	0.6	0.8	0.7	0.5	0.5	0.6	0.4	0.7
109.5°	0.8	0.7	0.7	0.6	0.8	0.7	0.5	0.4	0.6	0.4	0.6
110°	0.8	0.7	0.7	0.7	0.8	0.7	0.5	0.4	0.6	0.3	0.8
110.5°	0.8	0.8	0.7	0.6	0.8	0.8	0.5	0.4	0.6	0.4	0.8
111°	0.8	0.8	0.8	0.7	0.8	0.8	0.5	0.4	0.6	0.3	0.8



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

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	0.8	0.8	0.8	0.5	0.4	0.6	0.8	0.8
113°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.8	0.8	0.8
113.5°	0.8	0.8	1.0	0.7	0.9	0.8	0.8	0.6	0.8	0.5	0.8
114°	0.8	0.8	1.0	0.8	0.9	0.8	0.6	0.5	0.8	0.4	0.8
114.5°	0.8	0.8	0.9	0.9	0.9	0.8	0.4	0.5	0.8	0.8	0.8
115°	0.8	0.8	0.9	0.8	1.0	0.8	0.6	0.5	0.8	0.5	0.8
115.5°	0.8	0.8	0.9	1.0	0.9	0.8	0.6	0.5	0.8	0.8	0.8
116°	0.8	0.9	0.8	0.8	0.9	0.8	0.6	0.5	0.8	0.8	0.9
116.5°	1.0	0.9	0.8	0.7	0.9	0.8	0.6	0.4	0.8	0.8	0.9
117°	0.9	0.9	0.8	0.8	1.0	0.9	0.6	0.8	0.8	0.8	0.9
117.5°	1.0	1.0	1.0	0.7	1.0	0.9	0.7	0.8	0.8	0.8	0.9
118°	1.0	1.0	1.0	0.9	1.0	0.9	0.7	0.8	0.8	0.8	0.9
118.5°	1.0	1.0	0.9	1.0	1.0	0.9	0.7	0.8	0.8	0.8	0.9
119°	1.0	1.0	0.9	1.0	1.0	0.9	0.6	0.8	0.8	0.8	0.9
119.5°	1.0	1.0	0.9	0.9	1.0	0.9	0.8	0.6	0.8	0.8	0.9
120°	1.0	1.0	1.0	0.7	1.0	0.9	0.7	0.6	0.8	0.8	0.9
120.5°	1.0	1.0	1.0	0.8	1.0	1.0	0.6	0.8	0.9	0.8	0.9
121°	1.0	1.0	1.0	0.9	1.0	1.0	0.6	0.7	0.8	0.8	0.9
121.5°	1.0	1.2	1.0	0.9	1.0	1.0	0.8	0.7	1.0	0.8	1.0
122°	1.0	1.2	1.0	1.2	1.0	1.0	0.8	0.8	1.0	0.8	1.0
122.5°	1.0	1.1	1.0	1.0	1.0	1.0	0.8	0.7	0.9	0.8	1.0
123°	1.1	1.1	1.0	1.2	1.0	1.0	0.8	0.6	0.9	0.8	1.0
123.5°	1.0	1.1	1.1	1.2	1.0	1.0	0.7	1.0	0.9	0.8	1.0
124°	1.1	1.1	1.1	1.2	1.0	1.0	0.8	1.0	0.9	1.0	1.0
124.5°	1.1	1.1	1.0	1.2	1.0	1.0	0.8	1.0	0.9	1.0	1.0
125°	1.0	1.1	1.0	1.2	1.1	1.0	0.8	0.8	1.0	0.9	1.0
125.5°	1.2	1.1	1.0	1.2	1.1	1.0	0.7	0.8	1.0	0.9	1.0
126°	1.2	1.1	1.0	1.2	1.1	1.0	0.7	0.8	1.0	0.9	1.0
126.5°	1.1	1.1	1.0	1.2	1.1	1.0	0.8	0.7	1.0	0.9	1.0
127°	1.1	1.1	1.0	1.2	1.1	1.0	0.8	0.7	1.1	0.9	1.0
127.5°	1.1	1.1	1.0	1.1	1.1	1.1	0.8	0.7	1.0	0.9	1.0
128°	1.1	1.1	1.0	1.2	1.2	1.1	0.8	0.9	1.0	0.9	1.0
128.5°	1.1	1.1	1.0	1.1	1.2	1.0	0.8	0.8	1.0	0.9	1.0
129°	1.1	1.1	1.0	1.1	1.2	1.0	0.8	0.8	1.0	1.0	1.0
129.5°	1.1	1.1	1.1	1.1	1.2	1.0	0.7	0.9	1.0	1.0	1.0
130°	1.1	1.1	1.1	1.1	1.2	1.0	0.8	0.9	1.0	1.0	1.0
130.5°	1.1	1.1	1.1	1.1	1.2	1.1	0.8	0.9	1.0	1.0	1.0
131°	1.1	1.1	1.5	1.1	1.2	1.0	0.9	0.9	1.0	1.0	1.0
131.5°	1.1	1.1	1.2	1.1	1.2	1.0	0.9	0.8	1.1	1.0	1.0
132°	1.2	1.1	1.2	1.1	1.2	1.1	0.8	0.8	1.1	1.0	1.0
132.5°	1.2	1.1	1.2	1.1	1.2	1.1	0.8	0.9	1.1	1.0	1.0
133°	1.2	1.1	1.2	1.1	1.2	1.1	0.8	0.8	1.1	1.0	1.0
133.5°	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.0	1.2	1.0	1.0



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

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	1.0	1.2	0.9	1.0
135.5°	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.0	1.2	0.8	1.0
136°	1.2	1.2	1.2	1.1	1.2	1.1	1.0	0.9	1.2	1.0	1.0
136.5°	1.2	1.2	1.3	1.1	1.3	1.1	0.8	0.8	1.2	1.0	1.1
137°	1.2	1.2	1.3	1.1	1.3	1.2	0.8	1.2	1.3	1.0	1.1
137.5°	1.3	1.2	1.6	1.1	1.3	1.2	1.0	1.0	1.4	1.0	1.2
138°	1.3	1.2	1.6	1.2	1.4	1.2	0.9	1.0	1.3	1.0	1.2
138.5°	1.3	1.2	1.6	1.2	1.4	1.2	0.9	0.9	1.3	1.0	1.1
139°	1.3	1.2	1.5	1.2	1.4	1.2	0.8	1.0	1.5	1.2	1.2
139.5°	1.3	1.2	1.5	1.4	1.4	1.2	0.8	1.2	1.5	1.2	1.2
140°	1.3	1.3	1.5	1.4	1.4	1.3	1.0	1.1	1.5	1.2	1.2
140.5°	1.3	1.3	1.5	1.3	1.4	1.3	1.0	1.1	1.5	1.2	1.2
141°	1.3	1.2	1.5	1.3	1.4	1.2	1.0	1.2	1.5	1.2	1.2
141.5°	1.3	1.2	1.5	1.3	1.4	1.2	0.9	1.2	1.4	1.2	1.2
142°	1.3	1.2	1.5	1.3	1.4	1.2	0.9	1.2	1.5	1.2	1.2
142.5°	1.4	1.3	1.5	1.3	1.4	1.2	0.9	1.2	1.5	1.0	1.2
143°	1.4	1.3	1.5	1.3	1.4	1.2	1.2	1.4	1.6	1.3	1.2
143.5°	1.4	1.3	1.5	1.4	1.4	1.2	1.1	1.3	1.6	1.2	1.2
144°	1.4	1.4	1.5	1.4	1.5	1.2	1.0	1.3	1.5	1.3	1.2
144.5°	1.6	1.4	1.5	1.4	1.5	1.2	1.1	1.2	1.5	1.4	1.2
145°	1.6	1.5	1.5	1.4	1.5	1.2	1.0	1.2	1.5	1.4	1.3
145.5°	1.7	1.5	1.6	1.5	1.5	1.2	1.0	1.2	1.5	1.5	1.3
146°	1.8	1.7	1.6	1.5	1.5	1.2	1.0	1.2	1.6	1.5	1.3
146.5°	1.8	1.7	1.5	1.5	1.6	1.2	1.0	1.3	1.5	1.5	1.3
147°	1.9	1.8	1.8	1.6	1.5	1.2	1.0	1.5	1.7	1.2	1.4
147.5°	2.0	1.9	1.8	1.7	1.5	1.2	1.1	1.5	1.7	1.5	1.4
148°	2.0	1.9	1.7	1.6	1.7	1.3	1.2	1.4	1.6	1.5	1.5
148.5°	2.0	1.9	1.7	1.8	1.7	1.5	1.2	1.4	1.6	1.5	1.5
149°	2.0	1.9	1.7	1.9	1.7	1.5	1.2	1.4	1.6	1.7	1.4
149.5°	2.0	2.0	1.7	1.9	1.7	1.5	1.3	1.4	1.6	1.8	1.4
150°	2.0	1.9	1.7	1.9	1.7	1.5	1.3	1.4	1.6	1.9	1.5
150.5°	2.2	1.9	1.8	1.9	1.7	1.5	1.3	1.4	1.6	1.9	1.5
151°	2.2	1.9	1.9	1.9	1.8	1.5	1.3	1.4	1.6	1.9	1.5
151.5°	2.2	1.9	1.9	1.9	1.7	1.7	1.3	1.4	1.6	1.9	1.5
152°	2.2	1.9	1.9	1.9	1.8	1.7	1.3	1.5	1.8	1.9	1.6
152.5°	2.2	1.9	1.9	1.9	1.8	1.7	1.4	1.4	1.8	1.9	1.6
153°	2.2	1.9	1.9	1.9	1.9	1.7	1.4	1.7	2.1	1.9	1.6
153.5°	2.2	2.0	1.9	1.9	1.9	1.7	1.5	1.6	1.9	1.9	1.7
154°	2.2	2.0	1.9	1.9	1.9	1.7	1.5	1.6	1.9	2.0	1.7
154.5°	2.2	2.1	1.9	1.9	1.9	1.9	1.5	1.8	2.0	2.2	1.7
155°	2.2	2.2	1.9	2.0	1.9	1.9	1.5	1.7	2.1	2.2	1.7
155.5°	2.4	2.2	2.0	2.1	1.9	1.8	1.5	1.7	2.2	2.1	1.8
156°	2.4	2.2	2.0	2.1	2.0	1.8	1.5	1.7	2.2	2.2	1.9



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.4	2.3	2.0	2.0	2.1	1.9	1.8	1.9	2.2	2.3	2.0
158°	2.4	2.2	2.0	2.0	2.1	1.9	1.7	2.1	2.3	2.3	2.0
158.5°	2.4	2.2	2.0	2.0	2.2	2.2	1.7	2.2	2.4	2.4	2.1
159°	2.4	2.3	2.2	2.0	2.2	2.2	1.9	2.2	2.4	2.4	2.1
159.5°	2.4	2.3	2.2	2.0	2.2	2.2	2.1	2.2	2.5	2.4	2.2
160°	2.4	2.4	2.2	2.0	2.3	2.2	2.1	2.3	2.5	2.4	2.2
160.5°	2.4	2.4	2.3	2.1	2.4	2.2	2.0	2.3	2.6	2.4	2.2
161°	2.4	2.4	2.2	2.2	2.4	2.3	2.2	2.3	2.6	2.4	2.2
161.5°	2.4	2.4	2.2	2.1	2.4	2.3	2.2	2.5	2.6	2.4	2.4
162°	2.6	2.4	2.3	2.1	2.4	2.2	2.3	2.5	2.6	2.6	2.4
162.5°	2.6	2.6	2.4	2.1	2.4	2.2	2.2	2.5	2.6	2.7	2.4
163°	2.6	2.6	2.4	2.1	2.4	2.2	2.2	2.5	2.6	2.7	2.4
163.5°	2.6	2.8	2.4	2.1	2.5	2.3	2.4	2.6	2.6	2.4	2.4
164°	2.6	2.8	2.4	2.1	2.6	2.6	2.3	2.6	2.6	2.6	2.4
164.5°	2.6	2.9	2.4	2.2	2.6	2.6	2.5	2.6	2.6	2.6	2.4
165°	2.7	2.9	2.4	2.2	2.6	2.5	2.5	2.6	2.8	2.8	2.4
165.5°	2.8	3.1	2.4	2.2	2.7	2.5	2.5	2.6	2.7	2.9	2.4
166°	2.8	3.1	2.4	2.2	2.8	2.5	2.6	2.6	2.7	3.0	2.4
166.5°	2.8	3.1	2.4	2.2	2.7	2.5	2.6	2.6	2.7	2.8	2.9
167°	2.9	3.1	2.4	2.2	2.9	2.6	2.6	2.6	2.7	2.9	2.7
167.5°	3.0	3.1	2.6	2.2	2.9	2.6	2.6	2.6	2.7	2.8	2.8
168°	3.0	2.9	2.5	2.2	2.9	2.7	2.6	2.6	2.7	4.6	2.6
168.5°	2.9	2.8	2.5	2.3	2.9	2.9	2.6	2.6	2.7	2.6	2.6
169°	2.8	2.8	2.5	2.3	2.9	2.9	2.6	2.6	2.7	2.6	2.5
169.5°	2.9	2.8	2.5	2.5	2.9	2.8	2.6	2.6	2.7	2.6	2.5
170°	3.0	2.8	2.5	2.4	2.9	2.8	2.6	2.6	2.7	2.4	2.4
170.5°	3.0	2.8	2.5	2.4	2.9	2.8	2.6	2.6	2.7	2.4	2.5
171°	3.0	2.8	2.6	2.4	2.9	2.8	2.6	2.6	2.7	2.6	2.5
171.5°	3.0	2.8	2.6	2.4	2.9	2.8	2.8	2.6	2.7	2.5	2.4
172°	3.1	2.7	2.5	2.4	2.9	2.8	2.8	2.6	2.7	2.6	2.4
172.5°	2.8	2.7	2.5	2.4	2.9	2.8	2.8	2.6	2.8	2.6	2.4
173°	2.8	2.8	2.4	2.4	2.9	2.8	2.8	2.6	2.8	2.6	2.4
173.5°	2.7	2.7	2.6	2.4	2.9	2.8	2.8	2.6	2.8	2.6	2.4
174°	2.8	2.6	2.6	2.4	2.9	2.8	2.9	2.6	2.8	2.6	2.4
174.5°	2.6	2.6	2.6	2.4	2.9	2.8	3.0	2.6	2.8	2.6	2.4
175°	2.6	2.6	2.6	2.4	2.9	2.8	2.9	2.6	2.5	2.6	2.4
175.5°	2.6	2.6	2.6	2.4	2.9	2.8	2.8	2.6	2.5	2.6	2.4
176°	2.7	2.6	2.6	2.4	2.9	2.8	2.8	2.6	2.4	2.2	2.4
176.5°	2.6	2.6	2.5	2.4	2.9	2.9	2.6	2.6	2.4	2.2	2.4
177°	2.6	2.6	2.6	2.4	2.9	2.9	2.7	2.6	2.4	2.2	2.4
177.5°	2.6	2.7	2.6	2.5	2.9	2.9	2.7	2.6	2.5	2.2	2.4
178°	2.5	2.5	2.4	2.8	3.0	3.0	2.9	2.6	2.5	2.2	2.4
178.5°	2.7	2.5	2.5	3.1	3.3	3.1	3.2	2.8	2.5	2.4	2.5



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	444.8	444.8	444.8	444.8	444.8	444.8
0.5°	445.0	445.5	445.6	445.0	445.1	444.8
1°	445.0	445.6	445.5	445.0	445.1	444.8
1.5°	445.2	446.1	445.5	445.0	445.1	444.8
2°	444.7	446.0	445.3	445.0	445.1	444.8
2.5°	444.5	445.8	445.1	445.0	444.8	444.8
3°	444.3	445.5	445.1	445.0	444.4	444.6
3.5°	444.3	444.7	444.8	444.8	444.4	444.4
4°	444.0	444.7	444.4	444.5	444.3	444.1
4.5°	443.6	444.6	443.9	444.1	443.9	443.7
5°	443.0	444.4	443.5	443.7	443.7	443.2
5.5°	442.7	444.0	443.2	443.3	443.4	442.8
6°	442.5	443.3	442.7	442.9	442.8	442.1
6.5°	442.0	442.7	442.4	442.3	441.7	441.5
7°	441.2	442.4	442.0	441.9	441.4	441.0
7.5°	440.8	441.9	441.3	441.2	441.1	440.4
8°	440.3	441.2	440.8	440.7	440.1	440.0
8.5°	439.8	440.8	440.0	440.0	439.7	439.3
9°	439.0	440.0	439.4	439.3	439.2	438.7
9.5°	437.9	439.6	438.8	438.7	438.2	438.0
10°	437.0	439.0	438.2	438.1	437.2	437.1
10.5°	436.5	437.9	437.1	436.9	436.5	436.2
11°	435.4	436.8	436.2	436.2	435.7	435.1
11.5°	435.1	436.1	435.3	435.5	434.8	434.3
12°	434.2	435.4	434.5	434.4	434.0	433.4
12.5°	433.4	434.1	433.6	433.3	432.9	432.3
13°	432.3	433.0	432.7	432.3	431.9	431.4
13.5°	431.3	432.1	431.7	431.2	430.8	430.3
14°	430.2	430.8	430.6	430.1	429.8	429.2
14.5°	429.0	429.5	429.4	429.2	428.6	427.9
15°	427.7	428.4	428.2	428.1	427.4	426.7
15.5°	426.7	427.4	427.0	426.8	426.2	425.6
16°	425.4	426.2	426.0	425.6	424.9	424.3
16.5°	424.3	425.0	424.6	424.4	423.6	423.1
17°	422.9	423.7	423.3	423.0	422.4	421.8
17.5°	421.6	422.4	421.9	421.6	421.0	420.4
18°	420.2	421.1	420.5	420.3	419.8	418.9
18.5°	419.0	419.5	419.1	418.9	418.3	417.5
19°	417.6	418.2	417.5	417.4	416.8	416.0
19.5°	416.2	416.8	416.1	415.8	415.5	414.6
20°	414.7	415.4	414.7	414.5	413.9	413.2
20.5°	413.3	413.8	413.2	412.9	412.3	411.4
21°	411.9	412.3	411.6	411.2	410.6	409.8



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	408.3	407.3	406.7	406.3	405.6	404.7
23°	405.2	405.6	405.1	404.5	403.9	402.9
23.5°	403.6	403.8	403.3	402.7	402.2	401.3
24°	401.8	402.0	401.5	400.9	400.3	399.4
24.5°	400.1	400.1	399.7	399.0	398.4	397.5
25°	398.5	398.2	397.8	397.4	396.5	395.5
25.5°	396.5	396.3	395.8	395.3	394.7	393.6
26°	394.7	394.5	393.9	393.4	392.7	391.7
26.5°	392.5	392.5	392.0	391.5	390.7	389.8
27°	390.5	390.5	390.0	389.5	388.8	387.9
27.5°	388.6	388.4	387.9	387.4	386.8	385.8
28°	386.5	386.3	385.9	385.5	384.7	383.5
28.5°	384.5	384.3	383.8	383.4	382.6	381.3
29°	382.2	382.2	381.8	381.3	380.6	379.4
29.5°	380.2	380.5	379.8	379.2	378.5	377.3
30°	378.1	378.2	377.7	376.9	376.2	375.0
30.5°	376.2	376.0	375.6	374.7	374.1	372.9
31°	373.9	373.8	373.3	372.4	371.8	370.8
31.5°	371.7	371.7	370.9	370.2	369.6	368.6
32°	369.2	369.4	368.7	368.0	367.4	366.2
32.5°	367.1	367.2	366.5	365.9	365.0	363.8
33°	364.7	364.6	364.1	363.4	362.7	361.5
33.5°	362.2	362.3	361.7	361.0	360.2	359.1
34°	359.8	359.7	359.2	358.7	357.9	356.8
34.5°	357.4	357.3	356.9	356.3	355.6	354.2
35°	355.1	354.8	354.3	353.8	353.0	351.8
35.5°	352.6	352.4	351.8	351.2	350.5	349.3
36°	350.0	349.7	349.3	348.6	348.0	346.7
36.5°	347.5	347.3	346.8	346.0	345.4	344.3
37°	344.8	344.9	344.2	343.8	342.7	341.6
37.5°	342.3	342.4	341.5	341.0	340.2	339.2
38°	339.7	339.7	339.0	338.3	337.5	336.5
38.5°	337.2	337.2	336.4	335.6	334.9	333.8
39°	334.6	334.4	333.7	332.9	332.0	331.2
39.5°	331.7	331.6	330.9	330.3	329.3	328.3
40°	329.1	328.9	328.1	327.6	326.6	325.6
40.5°	326.5	326.0	325.3	324.7	323.8	322.6
41°	323.8	323.1	322.4	322.0	321.0	320.0
41.5°	321.0	320.4	319.6	319.1	318.1	317.1
42°	318.1	317.6	316.9	316.3	315.2	314.3
42.5°	315.1	314.7	313.9	313.5	312.3	311.4
43°	312.4	311.7	311.1	310.5	309.5	308.6
43.5°	309.7	308.9	308.4	307.8	306.9	305.6



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	300.8	300.0	299.3	298.9	297.8	296.6
45.5°	297.8	296.9	296.3	295.7	294.9	293.5
46°	294.8	294.0	293.3	292.8	291.6	290.6
46.5°	291.8	290.7	290.4	289.8	288.5	287.3
47°	288.9	287.8	287.2	286.6	285.4	284.2
47.5°	285.6	284.6	284.0	283.4	282.3	281.2
48°	282.4	281.4	280.9	280.2	279.0	278.1
48.5°	279.5	278.3	277.7	277.1	276.0	274.9
49°	276.2	275.0	274.4	273.9	272.8	271.8
49.5°	273.0	272.0	271.4	270.7	269.8	268.5
50°	270.1	268.9	268.0	267.6	266.3	265.3
50.5°	266.6	265.4	264.9	264.4	263.1	261.9
51°	263.7	262.4	261.6	261.2	260.0	258.8
51.5°	260.2	259.1	258.3	257.8	256.7	255.5
52°	257.0	255.9	255.2	254.6	253.4	252.2
52.5°	253.8	252.7	251.8	251.3	250.0	248.8
53°	250.5	249.4	248.4	248.0	246.7	245.5
53.5°	247.2	245.8	245.2	244.7	243.4	242.2
54°	244.0	242.4	241.8	241.2	240.1	238.7
54.5°	240.5	239.0	238.5	237.9	236.9	235.6
55°	237.0	235.9	235.2	234.7	233.6	232.3
55.5°	233.6	232.4	232.0	231.2	230.1	228.9
56°	230.2	229.1	228.6	227.9	226.7	225.6
56.5°	226.7	225.6	225.2	224.5	223.4	222.1
57°	223.2	222.3	221.8	221.1	219.9	218.6
57.5°	219.9	218.8	218.4	217.7	216.5	215.2
58°	216.4	215.3	215.0	214.2	213.2	211.8
58.5°	213.0	211.9	211.6	210.8	209.8	208.5
59°	209.4	208.4	208.1	207.4	206.3	204.9
59.5°	205.9	205.0	204.7	203.8	202.8	201.6
60°	202.5	201.5	201.2	200.5	199.4	198.1
60.5°	199.0	198.1	197.8	196.9	196.0	194.6
61°	195.2	194.6	194.2	193.6	192.4	191.1
61.5°	191.6	191.1	190.7	189.9	189.0	187.5
62°	187.9	187.5	187.1	186.3	185.2	184.0
62.5°	184.4	183.9	183.5	182.7	181.7	180.3
63°	180.8	180.3	179.9	179.1	178.1	176.7
63.5°	177.2	176.7	176.4	175.5	174.4	173.0
64°	173.4	173.0	172.7	172.0	170.7	169.4
64.5°	169.8	169.3	169.1	168.3	167.1	165.8
65°	166.2	165.7	165.5	164.8	163.6	162.2
65.5°	162.6	162.2	162.0	161.1	159.9	158.6
66°	158.8	158.5	158.3	157.5	156.3	154.9



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	148.1	147.4	147.2	146.5	145.2	144.0
68°	144.4	143.9	143.6	142.8	141.7	140.3
68.5°	140.7	140.3	140.0	139.2	138.1	136.6
69°	137.1	136.6	136.4	135.6	134.5	133.0
69.5°	133.5	133.0	132.7	131.9	130.8	129.6
70°	129.8	129.4	129.2	128.3	127.4	125.9
70.5°	126.3	125.9	125.5	124.9	123.9	122.4
71°	122.7	122.3	122.1	121.2	120.3	118.8
71.5°	119.1	118.6	118.4	117.8	116.6	115.2
72°	115.4	115.1	114.8	114.1	113.0	111.5
72.5°	111.9	111.3	111.3	110.5	109.4	107.9
73°	108.1	107.7	107.7	107.0	105.8	104.4
73.5°	104.7	104.3	104.1	103.5	102.3	100.9
74°	101.2	100.7	100.5	99.9	98.7	97.3
74.5°	97.6	97.2	97.0	96.3	95.2	93.8
75°	94.1	93.7	93.6	92.9	91.8	90.3
75.5°	90.8	90.2	90.1	89.4	88.4	86.8
76°	87.4	86.6	86.7	85.9	84.9	83.3
76.5°	83.8	83.2	83.1	82.4	81.2	79.8
77°	80.4	79.7	79.6	78.9	77.8	76.3
77.5°	76.9	76.2	76.1	75.5	74.3	72.9
78°	73.6	72.7	72.6	72.0	70.9	69.4
78.5°	70.2	69.3	69.2	68.5	67.3	65.9
79°	67.0	65.7	65.7	65.1	63.9	62.4
79.5°	63.4	62.2	62.2	61.6	60.4	59.1
80°	60.3	59.0	58.9	58.2	57.1	55.7
80.5°	57.0	55.5	55.5	54.9	53.7	52.4
81°	53.9	52.2	52.3	51.6	50.6	49.0
81.5°	50.6	48.8	49.0	48.4	47.3	46.0
82°	47.3	45.8	45.8	45.3	44.1	42.7
82.5°	44.2	42.6	42.5	42.1	41.0	39.5
83°	41.3	39.4	39.4	38.9	37.9	36.7
83.5°	38.1	36.4	36.4	35.9	34.9	33.5
84°	35.0	33.3	33.3	32.9	31.8	30.5
84.5°	32.1	30.3	30.4	29.9	28.9	27.7
85°	29.2	27.5	27.5	27.0	26.1	24.8
85.5°	26.3	24.5	24.6	24.3	23.3	22.1
86°	23.5	21.9	21.9	21.4	20.5	19.4
86.5°	20.6	19.0	19.1	18.6	17.7	16.6
87°	18.2	16.4	16.3	15.9	15.1	13.9
87.5°	15.4	13.6	13.7	13.3	12.5	11.3
88°	12.6	11.0	11.0	10.6	9.9	9.0
88.5°	10.0	8.4	8.5	8.1	7.6	6.6



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	2.9	1.8	1.8	1.5	1.1	0.9
90.5°	1.0	0.9	0.8	0.8	0.7	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	0.6	0.6
93.5°	0.1	0.6	0.6	0.6	0.6	0.6
94°	0.1	0.6	0.6	0.6	0.6	0.6
94.5°	0.1	0.6	0.6	0.6	0.6	0.6
95°	0.1	0.6	0.6	0.6	0.6	0.6
95.5°	0.0	0.6	0.6	0.6	0.6	0.6
96°	0.0	0.6	0.6	0.6	0.6	0.6
96.5°	0.1	0.6	0.6	0.6	0.6	0.6
97°	0.1	0.6	0.6	0.6	0.6	0.6
97.5°	0.1	0.6	0.6	0.6	0.6	0.6
98°	0.2	0.6	0.6	0.6	0.6	0.6
98.5°	0.3	0.6	0.6	0.6	0.6	0.6
99°	0.3	0.6	0.6	0.6	0.6	0.6
99.5°	0.3	0.6	0.6	0.6	0.6	0.6
100°	0.3	0.6	0.6	0.6	0.6	0.6
100.5°	0.2	0.6	0.6	0.6	0.6	0.6
101°	0.1	0.6	0.6	0.6	0.6	0.6
101.5°	0.1	0.6	0.6	0.6	0.6	0.6
102°	0.3	0.6	0.6	0.6	0.6	0.6
102.5°	0.4	0.6	0.6	0.6	0.6	0.6
103°	0.4	0.6	0.6	0.6	0.6	0.6
103.5°	0.4	0.6	0.6	0.6	0.6	0.6
104°	0.4	0.6	0.6	0.6	0.6	0.6
104.5°	0.3	0.7	0.6	0.6	0.6	0.6
105°	0.3	0.7	0.6	0.6	0.6	0.6
105.5°	0.3	0.7	0.6	0.6	0.6	0.6
106°	0.6	0.7	0.6	0.6	0.6	0.6
106.5°	0.4	0.7	0.6	0.6	0.6	0.6
107°	0.4	0.7	0.6	0.6	0.6	0.7
107.5°	0.4	0.8	0.6	0.6	0.6	0.8
108°	0.5	0.8	0.6	0.6	0.6	0.8
108.5°	0.5	0.8	0.6	0.6	0.6	0.7
109°	0.5	0.8	0.6	0.6	0.6	0.7
109.5°	0.5	0.8	0.6	0.6	0.6	0.8
110°	0.6	0.8	0.6	0.6	0.6	0.8
110.5°	0.4	0.8	0.6	0.6	0.6	0.8
111°	0.5	0.8	0.6	0.6	0.6	0.8



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	1.2	1.2	1.1	1.1	1.2
135.5°	0.8	1.2	1.2	1.1	1.1	1.2
136°	0.8	1.2	1.2	1.1	1.1	1.2
136.5°	1.0	1.2	1.2	1.1	1.1	1.2
137°	1.0	1.2	1.2	1.1	1.1	1.2
137.5°	0.9	1.2	1.2	1.1	1.1	1.3
138°	0.9	1.2	1.2	1.1	1.1	1.3
138.5°	1.0	1.2	1.2	1.1	1.1	1.3
139°	0.9	1.2	1.2	1.1	1.1	1.3
139.5°	1.0	1.2	1.2	1.1	1.1	1.3
140°	1.0	1.2	1.2	1.1	1.1	1.3
140.5°	0.9	1.2	1.2	1.1	1.1	1.3
141°	1.0	1.2	1.2	1.1	1.1	1.3
141.5°	0.9	1.2	1.2	1.1	1.1	1.3
142°	0.9	1.2	1.2	1.1	1.1	1.3
142.5°	1.0	1.2	1.2	1.1	1.1	1.4
143°	1.0	1.2	1.2	1.1	1.1	1.4
143.5°	1.0	1.2	1.2	1.1	1.1	1.4
144°	1.2	1.2	1.2	1.1	1.1	1.4
144.5°	1.1	1.2	1.2	1.1	1.1	1.6
145°	1.1	1.2	1.2	1.1	1.1	1.6
145.5°	1.1	1.2	1.2	1.1	1.2	1.7
146°	1.1	1.2	1.3	1.2	1.2	1.8
146.5°	1.2	1.2	1.4	1.1	1.3	1.8
147°	1.2	1.2	1.3	1.1	1.3	1.9
147.5°	1.2	1.2	1.3	1.2	1.3	2.0
148°	1.3	1.2	1.5	1.2	1.4	2.0
148.5°	1.3	1.2	1.6	1.2	1.4	2.0
149°	1.3	1.2	1.6	1.2	1.4	2.0
149.5°	1.3	1.3	1.8	1.3	1.4	2.0
150°	1.4	1.3	1.8	1.3	1.5	2.0
150.5°	1.4	1.4	1.9	1.3	1.7	2.2
151°	1.4	1.4	1.9	1.4	1.7	2.2
151.5°	1.5	1.5	1.9	1.4	1.7	2.2
152°	1.5	1.5	1.9	1.3	1.9	2.2
152.5°	1.5	1.5	1.9	1.3	2.0	2.2
153°	1.5	1.7	2.1	1.3	2.0	2.2
153.5°	1.5	1.8	2.1	1.3	2.1	2.2
154°	1.5	1.8	2.1	1.3	2.1	2.2
154.5°	1.6	1.9	2.1	1.3	2.2	2.2
155°	1.5	1.8	2.2	1.5	2.2	2.2
155.5°	1.7	1.8	2.2	1.5	2.1	2.4
156°	1.7	1.9	2.2	1.5	2.1	2.4



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.7	2.0	2.2	1.6	2.1	2.4
158°	1.7	2.1	2.2	1.7	2.1	2.4
158.5°	1.8	2.1	2.2	1.8	2.1	2.4
159°	1.7	2.1	2.2	1.9	2.1	2.4
159.5°	1.9	2.1	2.2	2.0	2.1	2.4
160°	1.9	2.1	2.2	2.0	2.1	2.4
160.5°	1.9	2.1	2.2	2.0	2.1	2.4
161°	1.9	2.1	2.2	2.0	2.1	2.4
161.5°	1.9	2.1	2.2	2.0	2.1	2.4
162°	1.9	2.1	2.2	2.1	2.2	2.6
162.5°	1.8	2.1	2.2	2.1	2.2	2.6
163°	1.9	2.1	2.2	2.1	2.2	2.6
163.5°	2.1	2.1	2.2	2.2	2.2	2.6
164°	2.0	2.1	2.2	2.1	2.2	2.6
164.5°	2.1	2.1	2.2	2.2	2.4	2.6
165°	2.2	2.1	2.2	2.2	2.4	2.7
165.5°	2.2	2.1	2.2	2.2	2.4	2.8
166°	2.2	2.1	2.2	2.2	2.4	2.8
166.5°	2.2	2.1	2.2	2.2	2.4	2.8
167°	2.2	2.2	2.2	2.2	2.6	2.9
167.5°	2.4	2.1	2.3	2.2	2.6	3.0
168°	2.2	2.1	2.3	2.2	2.7	3.0
168.5°	2.4	2.2	2.4	2.3	2.7	2.9
169°	2.4	2.2	2.4	2.4	2.7	2.8
169.5°	2.4	2.2	2.4	2.6	2.8	2.9
170°	2.4	2.3	2.4	2.6	2.8	3.0
170.5°	2.6	2.3	2.4	2.6	2.8	3.0
171°	2.6	2.4	2.4	2.6	2.8	3.0
171.5°	2.8	2.4	2.6	2.6	3.0	3.0
172°	2.6	2.4	2.6	2.6	3.0	3.1
172.5°	2.6	2.4	2.6	2.6	2.9	2.8
173°	2.4	2.4	2.6	2.8	2.8	2.8
173.5°	2.5	2.4	2.7	2.8	2.8	2.7
174°	2.4	2.4	2.7	2.7	2.9	2.8
174.5°	2.4	2.4	2.6	2.7	2.9	2.6
175°	2.4	2.4	2.6	2.9	2.8	2.6
175.5°	2.4	2.4	2.6	3.0	2.7	2.6
176°	2.4	2.4	2.6	3.0	2.7	2.7
176.5°	2.4	2.4	2.6	3.0	2.8	2.6
177°	2.4	2.4	2.6	2.8	2.8	2.6
177.5°	2.5	2.5	2.6	2.8	2.5	2.6
178°	2.5	2.4	2.6	2.8	2.5	2.5
178.5°	2.5	2.4	2.8	2.8	2.5	2.7



TEST NUMBER: P417426

CATALOG NUMBER: SMD6R129SWH - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.4	2.4	2.4	2.4	2.4	2.4



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	408.1	407.6	407.0	406.4	407.8	407.8	407.9	408.6	408.7	409.6	410.0
22°	406.4	405.9	405.2	404.9	406.1	406.2	406.1	406.8	407.4	408.1	408.3



44°	302.7	301.7	301.0	300.6	302.5	302.5	303.0	303.7	304.7	305.4	306.3
44.5°	299.7	298.7	298.1	297.5	299.5	299.5	299.9	300.8	301.5	302.8	303.4



66.5°	151.3	150.0	149.1	148.7	149.8	150.1	150.6	151.6	152.6	153.8	154.5
67°	147.7	146.3	145.4	144.7	146.3	146.6	147.1	148.1	149.2	150.0	151.0



89°	4.3	3.1	2.4	2.0	3.9	4.4	5.2	5.8	6.4	6.7	7.3
89.5°	2.1	1.4	0.9	0.8	1.2	1.4	2.0	3.2	4.1	4.5	5.0



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



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



156.5°	2.4	2.2	1.9	2.0	2.0	1.9	1.6	1.9	2.2	2.2	1.9
157°	2.4	2.3	2.0	2.0	2.0	1.9	1.6	1.9	2.2	2.2	1.9



179°	2.6	2.5	2.8	3.1	3.3	3.2	3.2	2.9	2.8	2.4	2.5
179.5°	2.5	2.4	2.8	3.2	3.3	3.2	3.2	2.9	2.7	2.4	2.4





21.5°	410.2	410.7	410.0	409.6	408.8	408.1
22°	408.7	408.9	408.3	408.0	407.3	406.4



44°	306.7	306.0	305.4	305.0	303.9	302.7
44.5°	303.9	303.0	302.4	301.9	300.8	299.7



66.5°	155.2	154.9	154.6	153.8	152.6	151.3
67°	151.6	151.2	150.9	150.2	148.9	147.7



89°	7.5	6.1	6.1	6.0	5.2	4.3
89.5°	5.2	3.8	3.7	3.2	2.6	2.1



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



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



156.5°	1.7	2.0	2.2	1.6	2.1	2.4
157°	1.7	2.0	2.2	1.6	2.1	2.4



179°	2.7	2.9	3.0	2.9	2.5	2.6
179.5°	2.7	3.1	3.1	2.9	2.6	2.5



(END OF REPORT)