

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: P417437

Luminaire Tested: **SMD6S129SWH - 2700K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2008665A001)
Test Lab: EVERFINE
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S129SWH - 2700K
Description: SMD SELECTABLE CCT 2700K
Light Source: SELECTABLE CCT LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1214.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

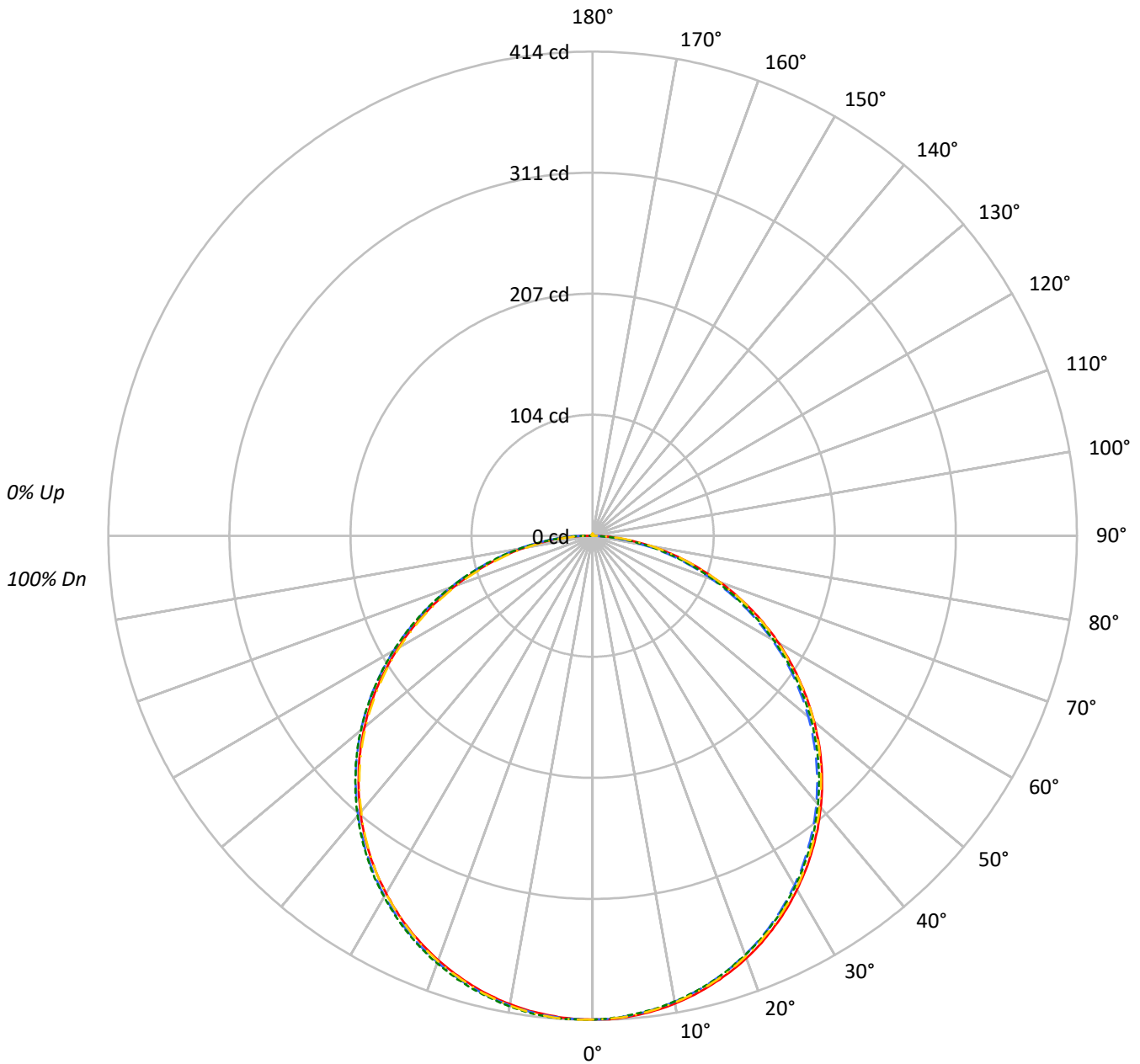
Input Watts (W): 14.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6S129SWH - 2700K

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	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17812	17812	17812	17812
5°	17798	17742	17802	17863
10°	17759	17676	17776	17868
15°	17692	17585	17741	17852
20°	17608	17480	17691	17819
25°	17501	17349	17625	17782
30°	17371	17217	17555	17724
35°	17219	17040	17461	17661
40°	17053	16856	17351	17564
45°	16848	16611	17220	17451
50°	16558	16324	17054	17315
55°	16222	15914	16837	17130
60°	15836	15397	16551	16929
65°	15312	14772	16178	16657
70°	14578	13898	15723	16277
75°	13708	12843	15188	15887
80°	12373	11381	14728	15546
85°	10226	8843	14721	15660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	3.2
10°-20°	112.1	9.2
20°-30°	170.2	14.0
30°-40°	206.1	17.0
40°-50°	215.1	17.7
50°-60°	196.0	16.1
60°-70°	151.9	12.5
70°-80°	90.9	7.5
80°-90°	28.1	2.3
90°-100°	0.6	0.1
100°-110°	0.4	0.0
110°-120°	0.5	0.0
120°-130°	0.6	0.1
130°-140°	0.6	0.1
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	321.5	26.5
0°-40°	527.6	43.5
0°-60°	938.7	77.3
0°-90°	1209.6	99.6
90°-120°	1.6	0.1
90°-150°	3.4	0.3
90°-180°	4.0	0.3
0°-180°	1214.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	412	410	412	413	412	39
15°	397	394	398	400	397	112
25°	368	365	371	374	368	170
35°	328	324	332	336	328	205
45°	277	273	283	287	277	213
55°	216	212	224	228	216	193
65°	150	145	159	164	150	148
75°	82	77	91	96	82	87
85°	21	18	30	32	21	23
90°	1	0	5	6	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	1
115°	0	0	0	0	0	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	2	1	1	0
175°	1	2	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	413.7	413.7	413.7	413.7	413.7	413.7	413.7	413.7	413.7	413.7	413.7
0.5°	413.6	413.7	413.5	413.8	413.5	413.4	413.7	413.5	413.6	413.6	413.6
1°	413.6	413.7	413.5	413.7	413.4	413.4	413.5	413.5	413.5	413.6	413.6
1.5°	413.7	413.4	413.5	413.6	413.2	413.2	413.3	413.5	413.5	413.6	413.6
2°	413.7	413.2	413.2	413.2	413.0	413.0	413.3	413.3	413.5	413.5	413.5
2.5°	413.5	413.1	413.0	412.9	412.6	412.7	413.0	412.8	413.1	413.5	413.5
3°	413.3	412.9	412.6	412.5	412.5	412.5	412.8	412.7	413.0	413.3	413.3
3.5°	413.0	412.5	412.3	412.2	412.4	412.1	412.6	412.6	412.8	413.2	413.1
4°	412.6	412.1	411.8	412.0	411.4	411.7	412.1	412.3	412.6	413.1	413.0
4.5°	412.3	411.8	411.4	411.3	411.0	411.2	411.7	411.7	412.1	412.7	412.8
5°	411.8	411.4	411.0	411.0	410.5	410.8	411.4	411.5	411.9	412.5	412.5
5.5°	411.5	410.8	410.6	410.6	410.1	410.3	410.9	410.9	411.5	411.9	412.1
6°	411.0	410.4	410.0	409.9	409.5	409.9	410.3	410.6	411.0	411.6	411.9
6.5°	410.6	409.7	409.5	409.2	409.1	409.3	409.9	410.1	410.6	411.2	411.5
7°	410.0	409.2	408.8	408.7	408.5	408.7	409.3	409.7	410.1	410.8	411.1
7.5°	409.5	408.5	408.0	408.1	408.2	408.2	408.7	409.1	409.8	410.2	410.5
8°	408.9	407.9	407.4	407.3	407.3	407.6	408.0	408.6	409.2	409.8	410.2
8.5°	408.4	407.2	406.7	406.7	406.6	406.7	407.3	407.9	408.5	409.4	409.6
9°	407.6	406.5	406.0	406.0	405.9	406.1	406.7	407.2	408.0	408.5	409.2
9.5°	406.9	405.8	405.2	405.2	405.1	405.4	406.0	406.5	407.3	408.0	408.5
10°	406.2	405.1	404.4	404.4	404.3	404.6	405.3	405.8	406.6	407.4	407.9
10.5°	405.4	404.2	403.7	403.6	403.5	403.7	404.4	405.0	406.0	406.7	407.0
11°	404.5	403.5	402.8	402.6	402.6	402.9	403.6	404.3	405.2	406.1	406.4
11.5°	403.7	402.4	401.8	401.6	401.8	401.8	402.7	403.4	404.5	405.3	405.7
12°	402.7	401.5	400.8	400.6	400.7	401.0	401.8	402.5	403.5	404.6	405.1
12.5°	402.0	400.4	399.9	399.6	399.9	400.0	400.7	401.6	402.7	403.6	404.1
13°	401.0	399.5	399.0	398.6	398.8	398.9	399.9	400.7	401.9	402.7	403.3
13.5°	400.0	398.5	398.0	397.6	397.8	397.8	398.9	399.8	401.1	401.8	402.4
14°	399.0	397.5	396.9	396.4	396.8	396.8	397.9	398.9	400.0	401.3	401.5
14.5°	397.8	396.3	395.8	395.2	395.8	395.7	396.8	397.8	399.1	400.0	400.4
15°	396.9	395.1	394.5	394.2	394.5	394.7	395.7	396.7	398.0	399.0	399.4
15.5°	395.7	393.9	393.3	393.0	393.4	393.6	394.6	395.6	396.9	398.0	398.5
16°	394.6	392.9	392.1	391.7	392.2	392.4	393.5	394.4	395.8	397.0	397.6
16.5°	393.3	391.6	390.9	390.5	390.9	391.0	392.1	393.3	394.7	395.9	396.5
17°	392.2	390.6	389.6	389.2	389.7	389.8	391.0	392.1	393.5	394.8	395.3
17.5°	391.0	389.1	388.4	387.7	388.5	388.5	389.6	390.9	392.4	393.5	394.1
18°	389.8	387.8	387.0	386.3	387.1	387.3	388.4	389.5	391.2	392.4	393.1
18.5°	388.5	386.4	385.4	385.0	385.4	385.8	387.0	388.3	390.0	391.1	391.8
19°	387.2	385.0	383.9	383.6	384.2	384.5	385.6	387.0	388.6	389.9	390.6
19.5°	385.8	383.5	382.5	382.3	383.0	383.1	384.2	385.6	387.4	388.5	389.4
20°	384.3	382.1	381.2	380.9	381.5	381.6	382.8	384.2	386.1	387.1	388.1
20.5°	382.9	380.6	379.6	379.3	380.1	380.1	381.4	382.8	384.7	385.9	386.7
21°	381.6	379.2	378.1	377.6	378.5	378.6	380.1	381.4	383.2	384.6	385.3



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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°	376.9	374.4	373.3	373.0	373.9	373.9	375.2	376.9	378.9	380.2	381.2
23°	375.2	372.7	371.7	371.4	372.1	372.3	373.7	375.2	377.5	378.8	379.7
23.5°	373.6	370.9	369.9	369.6	370.6	370.6	371.9	373.7	375.9	377.2	378.2
24°	371.8	369.3	368.2	367.8	368.8	368.9	370.4	372.1	374.4	375.6	376.6
24.5°	370.3	367.7	366.3	365.9	367.1	367.2	368.6	370.4	372.8	374.0	374.9
25°	368.4	365.9	364.5	364.2	365.2	365.7	367.0	368.8	371.0	372.3	373.4
25.5°	366.7	364.1	362.6	362.3	363.6	363.7	365.1	367.0	369.4	370.7	371.8
26°	365.1	362.2	360.8	360.5	361.8	361.8	363.4	365.3	367.8	369.1	370.0
26.5°	363.1	360.3	359.0	358.6	360.0	360.0	361.4	363.5	366.0	367.5	368.4
27°	361.2	358.5	357.1	356.8	358.0	358.1	359.7	361.7	364.3	365.7	366.8
27.5°	359.4	356.7	355.1	354.7	356.1	356.3	357.7	359.7	362.4	363.8	364.9
28°	357.4	354.8	353.2	352.8	354.0	354.3	355.8	357.9	360.6	362.0	363.2
28.5°	355.4	352.8	351.1	350.8	352.0	352.4	353.8	356.0	358.9	360.1	361.3
29°	353.4	350.8	349.1	349.0	350.2	350.5	352.0	354.2	356.7	358.2	359.6
29.5°	351.4	348.9	347.1	346.8	348.4	348.6	349.9	352.2	355.0	356.4	357.7
30°	349.4	346.7	345.1	344.7	346.3	346.6	348.1	350.3	353.1	354.3	355.8
30.5°	347.3	344.5	342.9	342.4	344.0	344.7	346.0	348.4	351.0	352.3	353.8
31°	345.2	342.6	340.8	340.5	342.1	342.4	344.1	346.3	348.9	350.4	352.0
31.5°	343.2	340.4	338.5	338.1	339.9	340.4	341.7	344.2	347.3	348.5	349.9
32°	341.0	338.2	336.5	336.0	337.8	338.2	339.6	342.1	345.1	346.7	347.9
32.5°	339.0	335.9	334.2	333.7	335.6	336.0	337.4	340.0	343.0	344.3	345.8
33°	336.7	333.6	332.0	331.5	333.3	333.7	335.3	337.8	341.0	342.2	343.9
33.5°	334.5	331.3	329.6	329.1	331.1	331.6	333.1	335.6	338.8	340.2	341.7
34°	332.2	329.1	327.4	326.9	328.9	329.2	331.0	333.4	336.7	338.2	339.6
34.5°	330.0	326.9	324.9	324.4	326.5	327.0	328.6	331.2	334.7	335.9	337.4
35°	327.6	324.6	322.5	322.0	324.2	324.7	326.4	328.9	332.2	333.7	335.1
35.5°	325.4	322.0	320.2	319.5	321.9	322.5	324.1	326.6	330.0	331.6	332.9
36°	323.0	319.9	317.7	317.3	319.5	320.0	321.7	324.3	327.9	329.3	330.8
36.5°	320.6	317.4	315.5	314.8	317.2	317.6	319.2	322.0	325.6	326.9	328.5
37°	318.3	315.1	312.9	312.4	314.8	315.2	316.9	319.6	323.2	324.7	326.0
37.5°	316.1	312.6	310.4	309.9	312.2	312.8	314.5	317.2	320.9	322.3	323.7
38°	313.5	310.0	308.0	307.5	309.8	310.2	312.0	314.9	318.5	319.9	321.4
38.5°	311.0	307.4	305.4	304.8	307.2	307.8	309.6	312.4	316.2	317.5	319.1
39°	308.4	305.0	303.0	302.2	304.8	305.3	307.2	310.0	313.8	315.3	316.7
39.5°	305.9	302.5	300.3	299.5	302.4	302.6	304.5	307.4	311.3	312.9	314.5
40°	303.4	300.0	297.7	296.9	299.9	300.1	302.1	305.0	308.7	310.3	312.0
40.5°	300.8	297.3	295.0	294.3	297.1	297.5	299.5	302.3	306.3	307.8	309.4
41°	298.3	294.5	292.2	291.7	294.6	294.8	296.9	299.9	303.6	305.5	307.0
41.5°	295.6	291.8	289.6	288.9	292.0	292.1	294.3	297.3	301.3	302.9	304.5
42°	293.0	289.1	287.0	286.3	289.3	289.5	291.7	294.7	298.6	300.3	302.0
42.5°	290.2	286.3	284.2	283.7	286.5	286.7	289.0	292.1	296.1	297.7	299.3
43°	287.5	283.7	281.5	281.0	283.9	284.2	286.4	289.5	293.4	295.3	296.8
43.5°	284.8	281.0	278.7	278.1	281.3	281.6	283.7	286.9	290.8	292.6	294.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	276.7	272.5	270.2	269.6	272.8	273.2	275.6	278.9	282.8	284.7	286.3
45.5°	273.7	269.8	267.3	266.9	269.9	270.4	272.7	276.0	280.2	282.0	283.6
46°	271.1	266.9	264.4	263.9	267.1	267.5	269.9	273.4	277.4	279.3	281.1
46.5°	268.1	264.0	261.5	260.9	264.3	264.7	267.2	270.5	274.7	276.7	278.3
47°	265.3	260.9	258.5	258.0	261.4	261.9	264.3	267.8	271.7	273.8	275.5
47.5°	262.2	258.0	255.5	255.1	258.4	258.8	261.3	264.8	269.0	271.0	272.7
48°	259.2	255.0	252.7	252.3	255.6	256.0	258.5	262.0	266.1	268.2	269.9
48.5°	256.2	252.2	249.8	249.3	252.5	253.0	255.7	259.1	263.4	265.4	267.0
49°	253.3	249.3	246.9	246.3	249.8	250.2	252.6	256.3	260.5	262.5	264.2
49.5°	250.3	246.5	243.8	243.2	246.9	247.1	249.8	253.2	257.5	259.7	261.3
50°	247.2	243.3	240.8	240.1	243.7	244.1	246.8	250.5	254.6	256.7	258.4
50.5°	244.0	240.1	237.6	237.1	240.7	241.1	243.7	247.5	251.6	253.6	255.5
51°	241.2	237.0	234.7	234.1	237.4	238.1	240.8	244.6	248.9	250.6	252.6
51.5°	238.0	234.1	231.4	230.9	234.3	234.9	237.8	241.5	245.9	247.8	249.8
52°	234.9	230.9	228.4	227.7	231.0	231.8	234.5	238.4	242.8	245.0	246.8
52.5°	232.0	227.8	225.2	224.6	228.0	228.6	231.5	235.3	239.8	241.9	243.7
53°	228.9	224.7	222.0	221.4	224.6	225.5	228.3	232.2	236.6	239.0	240.6
53.5°	225.5	221.5	218.8	218.3	221.4	222.1	225.0	229.0	233.7	235.8	237.5
54°	222.4	218.4	215.8	215.0	218.2	219.0	221.9	225.9	230.6	232.9	234.7
54.5°	219.3	215.3	212.7	211.9	215.2	215.9	218.6	222.8	227.5	229.8	231.5
55°	216.1	212.1	209.6	208.7	212.0	212.7	215.5	219.6	224.3	226.8	228.4
55.5°	212.9	209.0	206.4	205.6	208.8	209.5	212.2	216.4	221.1	223.5	225.2
56°	209.8	205.9	203.2	202.4	205.4	206.2	209.0	213.2	217.9	220.2	222.0
56.5°	206.6	202.7	200.1	199.3	202.2	203.0	205.8	210.0	214.6	217.0	218.8
57°	203.4	199.6	196.8	196.0	199.0	199.7	202.7	206.7	211.4	214.0	215.6
57.5°	200.2	196.2	193.5	192.7	195.7	196.3	199.3	203.5	208.3	210.7	212.5
58°	197.0	192.9	190.2	189.4	192.3	193.2	196.1	200.4	205.2	207.5	209.2
58.5°	193.7	189.7	186.9	186.2	188.8	190.0	192.9	197.0	201.8	204.3	206.1
59°	190.4	186.3	183.5	182.7	185.6	186.7	189.6	193.8	198.4	200.9	202.8
59.5°	187.2	182.9	180.1	179.4	182.2	183.4	186.3	190.4	195.2	197.6	199.4
60°	183.9	179.5	176.7	176.1	178.8	179.9	182.9	187.3	192.2	194.3	196.1
60.5°	180.5	176.2	173.4	172.7	175.5	176.5	179.7	184.2	188.9	191.2	192.9
61°	177.3	172.9	170.0	169.4	172.0	173.0	176.4	180.7	185.7	187.9	189.7
61.5°	173.9	169.5	166.7	165.9	168.8	169.9	172.9	177.4	182.3	184.7	186.5
62°	170.6	166.2	163.2	162.5	165.5	166.4	169.6	173.9	179.1	181.4	183.2
62.5°	167.0	162.7	159.7	159.0	161.9	163.0	166.2	170.6	175.7	177.9	179.8
63°	163.7	159.2	156.4	155.7	158.5	159.7	162.7	167.2	172.3	174.5	176.5
63.5°	160.3	155.9	153.0	152.4	155.1	156.3	159.3	163.8	168.9	171.3	173.1
64°	156.9	152.6	149.6	148.9	151.8	153.0	156.1	160.6	165.6	168.0	169.9
64.5°	153.6	149.2	146.3	145.5	148.3	149.6	152.6	157.1	162.2	164.5	166.5
65°	150.3	145.8	142.8	142.1	145.0	146.2	149.3	153.8	158.8	161.1	163.1
65.5°	146.8	142.3	139.5	138.4	141.7	142.8	145.9	150.3	155.4	157.8	159.6
66°	143.3	138.8	136.0	135.1	138.1	139.2	142.6	146.9	152.1	154.3	156.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	133.0	128.5	125.7	124.7	127.8	129.0	132.2	136.8	141.9	144.4	146.3
68°	129.5	125.0	122.2	121.3	124.3	125.5	128.8	133.3	138.4	141.0	142.9
68.5°	126.0	121.5	118.9	118.0	120.9	122.2	125.5	130.0	135.1	137.6	139.5
69°	122.7	118.3	115.4	114.5	117.5	118.8	122.2	126.5	131.6	134.3	136.2
69.5°	119.3	114.8	112.0	111.0	113.9	115.4	118.8	123.1	128.3	130.9	132.8
70°	115.8	111.4	108.6	107.6	110.4	112.0	115.4	119.7	124.9	127.4	129.4
70.5°	112.3	108.0	105.1	104.1	107.1	108.5	112.0	116.4	121.6	124.0	126.0
71°	108.9	104.6	101.7	100.8	103.8	105.0	108.6	113.1	118.3	120.6	122.7
71.5°	105.6	101.3	98.3	97.5	100.2	101.6	105.2	109.5	114.7	117.3	119.3
72°	102.2	97.8	95.0	94.2	96.9	98.3	102.0	106.2	111.3	113.9	116.0
72.5°	98.8	94.3	91.5	90.8	93.6	95.0	98.5	102.8	108.0	110.5	112.4
73°	95.5	91.0	88.3	87.5	90.3	91.6	95.2	99.4	104.5	107.1	109.0
73.5°	92.2	87.7	85.0	84.4	86.9	88.5	91.8	96.2	101.1	103.7	105.6
74°	88.8	84.5	81.9	81.1	83.7	85.4	88.6	92.9	97.8	100.3	102.4
74.5°	85.6	81.2	78.6	77.7	80.5	82.1	85.4	89.6	94.4	96.9	98.9
75°	82.4	77.9	75.3	74.6	77.2	78.9	82.2	86.5	91.3	93.6	95.6
75.5°	79.1	74.6	72.0	71.4	74.1	75.7	79.1	83.2	88.0	90.5	92.4
76°	75.8	71.4	68.8	68.1	70.9	72.5	75.9	80.1	84.8	87.3	89.3
76.5°	72.4	68.1	65.6	64.8	67.7	69.3	72.6	76.8	81.6	84.1	86.0
77°	69.2	64.9	62.3	61.6	64.5	66.1	69.5	73.6	78.4	81.0	82.8
77.5°	66.0	61.7	59.1	58.4	61.2	63.0	66.3	70.5	75.3	77.7	79.7
78°	62.7	58.5	56.1	55.2	58.1	59.9	63.2	67.4	72.1	74.7	76.5
78.5°	59.6	55.4	52.8	52.1	55.0	56.8	60.1	64.3	69.0	71.4	73.4
79°	56.3	52.2	49.7	49.0	52.0	53.8	56.9	61.2	65.7	68.3	70.2
79.5°	53.1	49.0	46.6	45.8	48.9	50.7	53.9	58.0	62.6	65.0	67.0
80°	49.9	45.8	43.5	42.6	45.9	47.7	50.9	55.0	59.4	62.0	63.8
80.5°	46.7	42.7	40.4	39.6	42.8	44.7	47.9	52.0	56.4	58.9	60.7
81°	43.6	39.7	37.6	36.8	39.9	41.9	45.0	49.2	53.4	55.8	57.7
81.5°	40.6	36.8	34.6	33.7	37.0	38.8	42.0	46.0	50.3	52.8	54.6
82°	37.8	33.9	31.7	30.8	34.1	35.9	39.1	42.9	47.3	49.7	51.5
82.5°	34.6	31.0	28.8	28.0	31.1	33.2	36.2	40.0	44.3	46.9	48.5
83°	31.7	28.1	26.0	25.4	28.5	30.3	33.4	37.3	41.3	43.9	45.6
83.5°	28.8	25.3	23.2	22.6	25.7	27.5	30.5	34.3	38.4	40.9	42.6
84°	26.0	22.6	20.8	20.1	23.0	24.8	27.7	31.5	35.5	37.9	39.7
84.5°	23.2	20.2	18.0	17.4	20.5	22.1	25.1	28.7	32.7	35.1	36.8
85°	20.7	17.5	15.4	14.8	17.9	19.7	22.3	26.0	29.8	32.4	33.9
85.5°	18.0	14.8	12.9	12.4	15.2	17.1	19.9	23.2	27.1	29.5	31.1
86°	15.4	12.4	10.5	9.9	12.8	14.6	17.3	20.8	24.4	26.7	28.4
86.5°	12.9	9.9	8.0	7.6	10.4	12.1	14.8	18.1	21.7	24.1	25.7
87°	10.4	7.6	5.8	5.5	8.1	9.7	12.2	15.5	19.2	21.5	22.8
87.5°	8.0	5.5	3.5	3.3	5.9	7.4	9.8	13.0	16.6	18.9	20.5
88°	5.9	3.5	1.7	1.5	3.8	5.3	7.5	10.6	14.0	16.4	17.9
88.5°	3.7	1.5	0.7	0.7	1.4	3.1	5.4	8.2	11.6	13.8	15.2



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.6	0.6	0.6	0.2	0.4	0.2	1.8	4.8	6.8	7.8
90.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	2.6	4.6	5.6
91°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.2	0.5	2.6	3.5
91.5°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.6	1.6
92°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.2	0.1	0.4	0.4
92.5°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.1	0.1	0.4	0.1
93°	0.6	0.5	0.6	0.6	0.2	0.3	0.3	0.4	0.1	0.4	0.0
93.5°	0.6	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.1
94°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.0
94.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.2	0.1	0.4	0.0
95°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.0	0.1	0.4	0.2
95.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.3	0.1	0.4	0.2
96°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.1	0.1	0.4	0.2
96.5°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
97°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.1	0.4	0.1
97.5°	0.5	0.5	0.6	0.6	0.1	0.3	0.3	0.1	0.1	0.4	0.2
98°	0.5	0.5	0.6	0.6	0.0	0.3	0.3	0.0	0.1	0.4	0.0
98.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.0	0.2	0.4	0.1
99°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.0	0.1	0.4	0.1
99.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.2
100°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.1
100.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.4	0.1
101°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.4	0.1
101.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.1
102°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.4	0.2
102.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.3	0.6	0.1
103°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.1	0.4	0.6	0.1
103.5°	0.5	0.5	0.6	0.6	0.2	0.3	0.4	0.2	0.4	0.1	0.1
104°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.2	0.4	0.0	0.2
104.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.3	0.2	0.4	0.3	0.2
105°	0.5	0.5	0.6	0.6	0.3	0.3	0.4	0.2	0.4	0.3	0.2
105.5°	0.5	0.5	0.6	0.6	0.4	0.4	0.3	0.3	0.4	0.3	0.1
106°	0.5	0.5	0.6	0.6	0.2	0.3	0.2	0.2	0.4	0.3	0.1
106.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.2	0.1	0.4	0.4	0.1
107°	0.5	0.5	0.6	0.6	0.6	0.4	0.4	0.1	0.4	0.2	0.2
107.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.4	0.4	0.2	0.2
108°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.5	0.4	0.4	0.2
108.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.6	0.4	0.4	0.2
109°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.6	0.5	0.2	0.5
109.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.6	0.5	0.1	0.1
110°	0.5	0.5	0.6	0.6	0.4	0.3	0.5	0.7	0.4	0.3	0.3
110.5°	0.5	0.5	0.6	0.6	0.5	0.4	0.5	0.6	0.4	0.3	0.3
111°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.6	0.4	0.4	0.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.6	0.4	0.3	0.5
113°	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.6	0.4	0.4	0.4
113.5°	0.5	0.5	0.6	0.6	0.6	0.4	0.4	0.7	0.4	0.4	0.4
114°	0.5	0.5	0.6	0.6	0.3	0.3	0.4	0.7	0.4	0.5	0.3
114.5°	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.7	0.4	0.3	0.3
115°	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.8	0.4	0.4	0.3
115.5°	0.5	0.5	0.6	0.6	0.4	0.4	0.4	0.8	0.4	0.4	0.3
116°	0.5	0.6	0.6	0.6	0.3	0.4	0.4	0.8	0.5	0.4	0.5
116.5°	0.5	0.6	0.6	0.6	0.5	0.4	0.6	0.8	0.5	0.4	0.5
117°	0.5	0.7	0.6	0.6	0.5	0.4	0.6	0.8	0.6	0.4	0.6
117.5°	0.5	0.7	0.6	0.6	0.5	0.4	0.5	0.8	0.5	0.4	0.6
118°	0.6	0.7	0.7	0.6	0.3	0.5	0.6	0.8	0.5	0.4	0.4
118.5°	0.6	0.7	0.6	0.6	0.5	0.5	0.6	0.8	0.6	0.4	0.4
119°	0.6	0.8	0.6	0.7	0.7	0.6	0.6	0.8	0.6	0.4	0.4
119.5°	0.6	0.8	0.8	0.8	0.6	0.6	0.6	0.8	0.6	0.3	0.4
120°	0.7	0.8	0.8	0.9	0.4	0.6	0.6	0.8	0.6	0.4	0.4
120.5°	0.7	0.8	0.8	0.9	0.4	0.5	0.5	0.8	0.6	0.4	0.4
121°	0.7	0.8	0.8	1.0	0.4	0.4	0.5	0.8	0.6	0.4	0.4
121.5°	0.7	0.8	0.7	0.9	0.5	0.4	0.5	0.8	0.6	0.8	0.4
122°	0.8	0.8	0.8	0.9	0.4	0.4	0.6	0.9	0.6	0.5	0.4
122.5°	0.8	0.9	0.8	0.9	0.6	0.4	0.6	0.9	0.6	0.5	0.6
123°	0.8	0.8	0.8	0.9	0.5	0.7	0.6	0.8	0.7	0.5	0.6
123.5°	0.8	0.9	0.8	0.9	0.6	0.7	0.6	0.9	0.7	0.6	0.6
124°	0.9	1.0	1.0	0.9	0.4	0.6	0.6	0.5	0.7	0.5	0.6
124.5°	0.9	0.9	1.0	0.9	0.6	0.6	0.6	0.7	0.7	0.6	0.8
125°	0.8	0.9	0.9	0.9	0.6	0.6	0.5	0.7	0.6	0.6	0.6
125.5°	0.8	0.9	1.0	0.9	0.6	0.6	0.5	0.6	0.6	0.6	0.6
126°	0.8	0.9	1.0	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
126.5°	0.9	0.9	1.0	0.9	0.5	0.6	0.5	0.6	0.6	0.6	0.6
127°	0.9	0.9	1.1	0.9	0.6	0.6	0.7	0.6	0.6	0.6	0.6
127.5°	0.9	1.0	1.1	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
128°	0.9	1.0	1.0	0.9	0.6	0.6	0.6	0.6	0.6	0.4	0.6
128.5°	0.9	1.0	1.0	0.9	0.6	0.4	0.7	0.6	0.6	0.4	0.6
129°	0.9	1.0	1.0	0.9	0.6	0.4	0.6	0.6	0.8	0.5	0.6
129.5°	0.9	1.0	1.0	0.9	0.6	0.6	0.6	0.6	0.7	0.4	0.6
130°	0.9	1.0	1.0	1.0	0.7	0.5	0.6	0.6	0.7	0.4	0.6
130.5°	0.9	1.0	1.0	1.0	0.7	0.7	0.6	0.6	0.7	0.4	0.6
131°	0.9	1.1	1.0	1.0	0.7	0.7	0.6	0.6	0.7	0.5	0.6
131.5°	0.9	1.1	1.0	1.0	0.7	0.6	0.7	0.6	0.7	0.6	0.6
132°	1.0	1.0	1.0	1.1	0.5	0.6	0.6	0.6	0.7	0.6	0.6
132.5°	1.0	1.0	1.0	1.1	0.5	0.6	0.6	0.7	0.7	0.6	0.5
133°	1.1	1.0	1.0	1.0	0.6	0.5	0.6	0.7	0.7	0.6	0.5
133.5°	1.1	1.0	1.0	1.1	0.7	0.4	0.6	0.8	0.7	0.6	0.8



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.0	1.0	1.0	1.0	0.7	0.8	0.6	0.9	0.7	0.6	0.5
135.5°	1.0	1.0	1.0	1.0	0.7	0.7	0.6	0.9	0.6	0.6	0.6
136°	1.0	1.0	1.0	1.0	0.7	0.6	0.6	0.6	0.7	0.6	0.6
136.5°	1.0	1.0	1.0	1.0	0.7	0.6	0.7	0.6	0.7	0.7	0.5
137°	1.0	1.0	1.0	1.0	0.7	0.6	0.8	0.8	0.7	0.6	0.6
137.5°	1.0	1.0	1.0	1.0	0.7	0.6	0.8	0.8	0.7	0.6	0.6
138°	1.0	1.0	1.0	1.0	0.7	0.7	0.8	0.8	0.7	0.6	0.6
138.5°	1.0	1.0	1.0	1.0	0.8	0.8	0.7	0.8	0.7	0.6	0.5
139°	1.0	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.7	0.6	0.7
139.5°	1.0	1.0	1.0	1.0	0.6	0.8	0.7	0.7	0.7	0.7	0.6
140°	1.0	1.0	1.0	1.0	0.6	0.7	0.7	0.6	0.7	0.7	0.6
140.5°	1.0	1.0	1.0	1.0	0.6	0.8	0.7	0.5	0.7	0.6	0.8
141°	1.0	1.0	1.0	1.0	0.6	0.8	0.7	1.0	0.7	0.6	0.8
141.5°	1.0	1.0	1.0	1.0	0.7	0.6	0.7	1.0	0.7	0.8	0.7
142°	1.0	1.0	1.0	1.0	0.7	0.7	0.8	1.0	0.7	0.7	0.7
142.5°	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0	0.7	0.6	0.7
143°	1.0	1.0	1.0	1.0	0.7	0.8	0.8	1.0	0.8	0.6	0.9
143.5°	1.0	1.0	1.0	1.0	0.6	0.8	0.8	1.0	0.8	0.8	0.9
144°	1.0	1.0	1.0	1.0	0.6	0.8	1.0	1.0	0.8	0.8	0.8
144.5°	1.0	1.0	1.0	1.0	0.7	0.8	1.0	1.1	0.9	0.8	0.8
145°	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.1	0.9	0.9	0.8
145.5°	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.1	0.9	1.0	0.9
146°	1.0	1.0	1.0	1.0	0.6	0.8	1.0	1.1	0.9	1.0	1.0
146.5°	1.0	1.0	1.0	1.0	0.8	0.8	1.0	1.1	0.9	1.0	1.0
147°	1.0	1.0	1.0	1.0	0.8	0.7	1.0	1.1	0.9	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	0.8	0.7	1.0	0.8	1.0	1.0	1.0
148°	1.0	1.0	1.0	1.0	0.8	0.7	1.0	0.7	1.0	1.0	1.0
148.5°	1.0	1.0	1.0	1.0	0.8	0.7	1.0	1.1	1.0	1.0	1.0
149°	1.0	1.0	1.0	1.0	0.8	0.7	1.0	1.1	1.0	0.9	1.0
149.5°	1.0	1.1	1.0	1.0	0.9	0.8	1.0	0.9	1.1	0.9	1.0
150°	1.0	1.1	1.0	1.0	0.8	0.8	1.0	1.0	1.1	0.9	1.0
150.5°	1.0	1.6	1.0	1.0	0.8	0.8	1.0	1.0	1.0	0.8	1.1
151°	1.0	1.3	1.0	1.0	0.8	0.8	1.0	1.0	1.0	0.8	1.1
151.5°	1.0	1.3	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.0
152°	1.0	1.3	1.0	1.1	0.9	0.8	1.0	0.9	1.1	0.9	1.1
152.5°	1.0	1.3	1.0	1.1	1.0	0.8	1.0	0.9	1.1	0.8	1.1
153°	1.0	1.3	1.0	1.1	0.9	1.0	1.0	1.0	1.1	0.9	1.1
153.5°	1.0	1.3	1.0	1.1	0.8	1.0	1.0	1.0	1.2	1.0	1.1
154°	1.0	1.3	1.0	1.1	0.9	1.0	1.0	0.9	1.1	1.0	1.1
154.5°	1.0	1.3	1.0	1.1	0.9	1.0	1.0	0.9	1.1	0.8	1.1
155°	1.0	1.3	1.0	1.1	0.9	1.1	1.0	0.9	1.1	1.0	1.1
155.5°	1.0	1.3	1.0	1.1	0.9	1.0	1.0	0.8	1.1	1.1	1.1
156°	1.0	1.3	1.0	1.1	0.9	1.0	1.0	0.9	1.2	1.1	1.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.3	1.3	1.0	1.2	1.0	1.1	1.0	1.1	1.2	1.1	1.2
158°	1.4	1.3	1.1	1.4	1.0	1.1	1.0	1.1	1.2	1.1	1.2
158.5°	1.3	1.3	1.1	1.5	1.0	1.2	1.3	1.1	1.2	1.1	1.2
159°	1.3	1.3	1.1	1.4	1.0	1.1	1.3	1.2	1.2	1.1	1.2
159.5°	1.3	1.3	1.1	1.4	1.0	1.2	1.2	1.3	1.4	1.1	1.3
160°	1.3	1.3	1.1	1.4	1.0	1.3	1.2	1.3	1.4	1.1	1.3
160.5°	1.3	1.3	1.1	1.4	1.1	1.3	1.2	1.3	1.1	1.1	1.3
161°	1.3	1.3	1.1	1.4	1.1	1.3	1.2	1.3	1.1	1.1	1.4
161.5°	1.3	1.3	1.1	1.4	1.1	1.3	1.2	1.5	1.2	1.3	1.5
162°	1.3	1.3	1.1	1.4	1.1	1.3	1.4	1.3	1.3	1.2	1.5
162.5°	1.3	1.3	1.1	1.4	1.1	1.4	1.4	1.3	1.4	1.3	1.5
163°	1.3	1.3	1.1	1.4	1.1	1.4	1.4	1.4	1.4	1.1	1.3
163.5°	1.3	1.3	1.1	1.4	1.2	1.3	1.4	1.4	1.5	1.2	1.3
164°	1.3	1.3	1.1	1.4	1.3	1.4	1.3	1.4	1.5	1.4	1.3
164.5°	1.3	1.3	1.1	1.4	1.1	1.6	1.5	1.4	1.5	1.4	1.3
165°	1.3	1.3	1.1	1.4	1.2	1.6	1.5	1.6	1.5	1.3	1.3
165.5°	1.3	1.3	1.1	1.5	1.3	1.6	1.4	1.6	1.5	1.3	1.3
166°	1.3	1.3	1.1	1.5	1.3	1.6	1.4	1.5	1.5	1.4	1.3
166.5°	1.3	1.3	1.1	1.5	1.3	1.6	1.4	1.5	1.5	1.3	1.3
167°	1.3	1.3	1.1	1.5	1.3	1.7	1.4	1.5	1.5	1.3	1.3
167.5°	1.3	1.3	1.1	1.5	1.3	1.6	1.4	1.6	1.5	1.3	1.3
168°	1.3	1.3	1.1	1.5	1.3	1.6	1.4	1.6	1.5	1.3	1.3
168.5°	1.3	1.3	1.1	1.5	1.4	1.6	1.4	1.6	1.5	1.3	1.3
169°	1.3	1.3	1.1	1.5	1.5	1.6	1.4	1.6	1.5	1.3	1.3
169.5°	1.3	1.3	1.1	1.5	1.5	1.6	1.4	1.6	1.5	1.3	1.3
170°	1.3	1.3	1.1	1.5	1.5	1.6	1.4	1.6	1.5	1.3	1.3
170.5°	1.3	1.3	1.1	1.5	1.5	1.6	1.4	1.6	1.5	1.3	1.3
171°	1.3	1.3	1.2	1.5	1.5	1.6	1.5	1.6	1.5	1.3	1.3
171.5°	1.3	1.3	1.2	1.5	1.4	1.6	1.5	1.6	1.5	1.3	1.3
172°	1.3	1.3	1.2	1.5	1.3	1.6	1.7	1.6	1.5	1.3	1.3
172.5°	1.3	1.3	1.2	1.5	1.4	1.6	1.7	1.6	1.5	1.3	1.3
173°	1.3	1.3	1.2	1.5	1.4	1.6	1.6	1.6	1.5	1.3	1.3
173.5°	1.3	1.3	1.2	1.5	1.3	1.6	1.6	1.6	1.5	1.3	1.3
174°	1.3	1.3	1.2	1.5	1.5	1.6	1.6	1.6	1.5	1.3	1.3
174.5°	1.3	1.3	1.2	1.7	1.5	1.6	1.6	1.6	1.5	1.3	1.3
175°	1.3	1.3	1.2	1.6	1.5	1.6	1.6	1.6	1.5	1.3	1.3
175.5°	1.3	1.3	1.2	1.6	1.5	1.6	1.6	1.6	1.5	1.3	1.3
176°	1.3	1.3	1.2	1.5	1.5	1.6	1.6	1.6	1.5	1.3	1.3
176.5°	1.3	1.3	1.2	1.7	1.5	1.6	1.6	1.6	1.5	1.3	1.3
177°	1.3	1.3	1.2	1.5	1.5	1.6	1.6	1.6	1.5	1.3	1.3
177.5°	1.3	1.3	1.2	1.7	1.6	1.6	1.6	1.6	1.5	1.3	1.3
178°	1.3	1.3	1.2	1.5	1.6	1.6	1.6	1.6	1.5	1.3	1.3
178.5°	1.3	1.3	1.2	1.5	1.4	1.6	1.6	1.6	1.5	1.3	1.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	413.7	413.7	413.7	413.7	413.7	413.7
0.5°	413.8	413.7	413.5	413.8	413.9	413.6
1°	413.9	413.7	413.7	413.8	413.9	413.6
1.5°	413.7	413.7	413.7	414.0	413.9	413.7
2°	413.8	413.8	413.7	413.9	413.9	413.7
2.5°	413.7	413.7	413.7	413.9	413.9	413.5
3°	413.7	413.8	413.7	413.9	413.6	413.3
3.5°	413.5	413.8	413.7	413.9	413.5	413.0
4°	413.3	413.7	413.7	413.6	413.1	412.6
4.5°	413.1	413.6	413.3	413.4	412.9	412.3
5°	412.8	413.3	413.1	413.1	412.5	411.8
5.5°	412.5	413.0	412.9	412.7	412.0	411.5
6°	412.3	412.6	412.5	412.3	411.6	411.0
6.5°	412.0	412.2	412.2	411.8	411.4	410.6
7°	411.4	411.9	411.7	411.5	410.8	410.0
7.5°	410.9	411.5	411.1	411.0	410.4	409.5
8°	410.5	411.0	410.7	410.4	409.6	408.9
8.5°	410.0	410.5	410.1	409.8	409.1	408.4
9°	409.5	409.9	409.5	409.2	408.3	407.6
9.5°	408.9	409.2	408.8	408.5	407.8	406.9
10°	408.5	408.7	408.1	407.9	406.9	406.2
10.5°	407.8	407.9	407.5	407.1	406.3	405.4
11°	407.0	407.3	406.8	406.3	405.4	404.5
11.5°	406.3	406.5	406.1	405.3	404.7	403.7
12°	405.6	405.6	405.1	404.7	403.9	402.7
12.5°	404.7	404.7	404.2	403.8	403.0	402.0
13°	403.8	404.0	403.5	402.9	402.2	401.0
13.5°	403.1	403.2	402.4	402.2	401.3	400.0
14°	402.2	402.3	401.6	401.0	400.1	399.0
14.5°	401.2	401.3	400.6	400.0	399.2	397.8
15°	400.2	400.5	399.7	398.8	398.1	396.9
15.5°	399.2	399.5	398.6	397.7	396.9	395.7
16°	398.2	398.3	397.6	396.7	395.7	394.6
16.5°	397.3	397.2	396.4	395.6	394.6	393.3
17°	396.0	396.4	395.3	394.4	393.4	392.2
17.5°	394.9	394.9	394.2	393.3	392.1	391.0
18°	393.8	393.9	393.0	392.2	390.9	389.8
18.5°	392.5	392.6	391.6	390.8	389.6	388.5
19°	391.2	391.4	390.5	389.7	388.2	387.2
19.5°	390.2	390.2	389.2	388.4	387.0	385.8
20°	388.9	388.9	387.9	387.0	385.6	384.3
20.5°	387.5	387.8	386.4	385.7	384.2	382.9
21°	386.2	386.4	385.1	384.2	382.7	381.6



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	381.8	382.2	380.9	380.0	378.2	376.9
23°	380.4	380.7	379.3	378.1	376.6	375.2
23.5°	378.8	379.3	377.7	376.7	375.0	373.6
24°	377.2	377.4	376.2	374.9	373.3	371.8
24.5°	375.8	376.0	374.7	373.3	371.7	370.3
25°	374.2	374.3	372.9	371.6	370.0	368.4
25.5°	372.6	372.8	371.2	369.9	368.1	366.7
26°	370.8	371.1	369.7	368.0	366.5	365.1
26.5°	369.2	369.4	367.9	366.4	364.5	363.1
27°	367.5	367.6	366.0	364.5	362.8	361.2
27.5°	365.8	365.9	364.2	362.7	361.0	359.4
28°	364.0	363.8	362.4	360.8	359.0	357.4
28.5°	362.2	362.1	360.4	359.0	357.3	355.4
29°	360.4	360.3	358.7	357.0	355.2	353.4
29.5°	358.5	358.5	356.6	355.1	353.1	351.4
30°	356.5	356.5	354.8	353.1	351.1	349.4
30.5°	354.8	354.7	353.0	351.1	349.3	347.3
31°	352.9	352.6	351.0	349.3	347.2	345.2
31.5°	350.9	350.7	348.9	347.3	345.3	343.2
32°	348.8	348.8	346.8	345.1	343.1	341.0
32.5°	347.0	346.8	344.8	343.1	341.1	339.0
33°	344.8	344.6	342.8	340.9	338.8	336.7
33.5°	342.7	342.7	340.5	338.8	336.8	334.5
34°	340.6	340.3	338.4	336.4	334.5	332.2
34.5°	338.5	338.1	336.2	334.2	332.3	330.0
35°	336.3	336.0	334.0	331.8	330.0	327.6
35.5°	334.2	333.7	331.6	329.7	327.6	325.4
36°	332.0	331.3	329.5	327.3	325.4	323.0
36.5°	329.8	329.2	327.2	324.9	323.0	320.6
37°	327.5	326.9	324.9	322.7	320.5	318.3
37.5°	325.2	324.5	322.4	320.4	318.1	316.1
38°	322.9	322.2	320.1	317.8	315.8	313.5
38.5°	320.5	319.8	317.5	315.5	313.3	311.0
39°	318.1	317.3	315.2	313.1	310.8	308.4
39.5°	315.6	315.0	312.7	310.5	308.3	305.9
40°	313.2	312.5	310.2	307.6	305.7	303.4
40.5°	310.8	310.1	307.8	305.3	303.1	300.8
41°	308.2	307.6	305.3	302.9	300.5	298.3
41.5°	305.8	305.0	302.7	300.3	297.7	295.6
42°	303.1	302.3	300.2	297.6	295.1	293.0
42.5°	300.7	300.0	297.6	295.0	292.5	290.2
43°	298.0	297.3	295.0	292.4	289.8	287.5
43.5°	295.4	294.7	292.3	289.7	287.0	284.8



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	287.4	286.6	284.1	281.7	278.8	276.7
45.5°	284.8	284.0	281.5	278.9	276.1	273.7
46°	282.3	281.5	278.7	276.1	273.3	271.1
46.5°	279.6	278.6	275.9	273.3	270.6	268.1
47°	276.7	275.8	273.2	270.6	267.5	265.3
47.5°	273.9	273.3	270.3	267.5	264.6	262.2
48°	271.0	270.3	267.6	264.7	261.7	259.2
48.5°	268.3	267.4	264.7	261.7	259.0	256.2
49°	265.3	264.6	261.8	258.9	255.9	253.3
49.5°	262.5	261.6	258.7	255.8	253.0	250.3
50°	259.5	258.5	255.9	252.9	250.1	247.2
50.5°	256.6	255.5	252.9	250.1	247.1	244.0
51°	253.8	252.6	250.0	247.1	244.1	241.2
51.5°	250.9	249.7	247.0	244.0	241.0	238.0
52°	247.8	246.9	244.1	240.9	237.8	234.9
52.5°	244.9	243.7	240.9	238.0	234.8	232.0
53°	241.8	240.5	238.0	235.0	231.7	228.9
53.5°	238.7	237.3	234.8	231.7	228.6	225.5
54°	235.6	234.4	231.8	228.7	225.4	222.4
54.5°	232.6	231.4	228.7	225.5	222.3	219.3
55°	229.5	228.2	225.6	222.4	218.9	216.1
55.5°	226.5	225.0	222.4	219.3	215.9	212.9
56°	223.3	221.8	219.2	216.2	212.7	209.8
56.5°	220.1	218.7	216.2	213.0	209.6	206.6
57°	217.0	215.7	213.1	209.9	206.4	203.4
57.5°	213.8	212.5	209.9	206.7	203.2	200.2
58°	210.7	209.3	206.7	203.5	200.1	197.0
58.5°	207.4	206.2	203.6	200.3	196.9	193.7
59°	204.3	203.1	200.5	197.1	193.6	190.4
59.5°	201.0	199.8	197.2	193.9	190.2	187.2
60°	197.6	196.6	193.9	190.6	186.7	183.9
60.5°	194.3	193.3	190.6	187.3	183.6	180.5
61°	191.2	190.0	187.4	183.9	180.3	177.3
61.5°	188.0	186.8	184.1	180.6	176.9	173.9
62°	184.7	183.5	180.8	177.1	173.6	170.6
62.5°	181.3	180.1	177.3	173.9	170.2	167.0
63°	178.1	176.9	174.0	170.5	166.8	163.7
63.5°	174.8	173.6	170.6	167.1	163.5	160.3
64°	171.5	170.2	167.3	163.8	160.1	156.9
64.5°	168.2	166.8	163.8	160.3	156.7	153.6
65°	164.8	163.5	160.6	156.8	153.3	150.3
65.5°	161.4	160.1	157.2	153.6	150.0	146.8
66°	158.0	156.7	153.8	150.2	146.5	143.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	147.8	146.7	143.6	140.0	136.1	133.0
68°	144.2	143.2	140.3	136.5	132.6	129.5
68.5°	140.8	139.7	136.9	133.2	129.2	126.0
69°	137.3	136.3	133.4	129.6	125.8	122.7
69.5°	133.8	132.8	129.9	126.3	122.3	119.3
70°	130.4	129.3	126.5	122.9	119.0	115.8
70.5°	127.0	125.9	123.0	119.6	115.6	112.3
71°	123.5	122.4	119.7	116.0	112.2	108.9
71.5°	120.2	119.2	116.4	112.7	108.8	105.6
72°	116.9	115.7	112.9	109.2	105.5	102.2
72.5°	113.6	112.3	109.4	105.8	102.0	98.8
73°	110.0	108.9	106.0	102.4	98.7	95.5
73.5°	106.5	105.6	102.7	99.0	95.4	92.2
74°	103.3	102.2	99.3	95.6	92.1	88.8
74.5°	99.9	98.9	95.9	92.3	88.7	85.6
75°	96.6	95.5	92.6	89.0	85.6	82.4
75.5°	93.3	92.2	89.2	85.8	82.4	79.1
76°	90.2	88.8	86.0	82.7	79.1	75.8
76.5°	86.9	85.6	82.8	79.3	75.9	72.4
77°	83.6	82.4	79.4	76.1	72.7	69.2
77.5°	80.3	79.1	76.1	72.8	69.5	66.0
78°	77.2	75.8	72.9	69.6	66.2	62.7
78.5°	73.9	72.5	69.7	66.4	62.9	59.6
79°	70.8	69.2	66.3	63.2	59.7	56.3
79.5°	67.5	65.8	63.2	60.0	56.5	53.1
80°	64.4	62.7	60.0	56.7	53.3	49.9
80.5°	61.3	59.6	56.8	53.5	50.1	46.7
81°	58.3	56.4	53.5	50.5	47.0	43.6
81.5°	55.1	53.2	50.4	47.4	43.8	40.6
82°	52.1	50.0	47.3	44.2	40.8	37.8
82.5°	49.0	46.8	44.2	41.2	37.9	34.6
83°	46.0	43.9	41.1	38.3	34.8	31.7
83.5°	43.1	40.7	38.3	35.3	31.9	28.8
84°	40.2	37.9	35.3	32.4	29.0	26.0
84.5°	37.4	34.8	32.5	29.6	26.4	23.2
85°	34.5	31.7	29.6	26.7	23.5	20.7
85.5°	31.5	28.9	26.7	23.9	20.9	18.0
86°	28.6	26.2	24.0	21.5	18.3	15.4
86.5°	25.9	23.6	21.5	18.8	15.8	12.9
87°	23.1	20.9	18.9	16.3	13.4	10.4
87.5°	20.8	18.4	16.3	13.8	10.9	8.0
88°	18.3	15.9	13.9	11.3	8.4	5.9
88.5°	15.5	13.2	11.4	8.9	6.2	3.7



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	8.2	6.3	4.8	2.4	0.8	0.6
90.5°	6.0	4.4	2.8	1.0	0.6	0.6
91°	4.1	2.3	1.2	0.6	0.6	0.6
91.5°	2.1	0.9	0.6	0.6	0.6	0.6
92°	0.4	0.6	0.6	0.5	0.5	0.6
92.5°	0.2	0.6	0.6	0.5	0.6	0.6
93°	0.2	0.6	0.6	0.5	0.5	0.6
93.5°	0.1	0.6	0.6	0.5	0.5	0.6
94°	0.1	0.6	0.6	0.5	0.5	0.5
94.5°	0.1	0.5	0.6	0.5	0.5	0.5
95°	0.1	0.5	0.5	0.5	0.5	0.5
95.5°	0.1	0.5	0.5	0.5	0.5	0.5
96°	0.2	0.5	0.5	0.5	0.5	0.5
96.5°	0.1	0.5	0.5	0.5	0.5	0.5
97°	0.2	0.5	0.5	0.5	0.5	0.5
97.5°	0.2	0.5	0.5	0.5	0.5	0.5
98°	0.1	0.5	0.5	0.5	0.5	0.5
98.5°	0.1	0.5	0.5	0.5	0.5	0.5
99°	0.1	0.5	0.5	0.5	0.5	0.5
99.5°	0.1	0.5	0.5	0.5	0.5	0.5
100°	0.1	0.5	0.5	0.5	0.5	0.5
100.5°	0.1	0.5	0.5	0.5	0.5	0.5
101°	0.1	0.5	0.5	0.5	0.5	0.5
101.5°	0.1	0.5	0.5	0.5	0.5	0.5
102°	0.1	0.5	0.5	0.5	0.5	0.5
102.5°	0.1	0.5	0.5	0.5	0.5	0.5
103°	0.1	0.5	0.5	0.5	0.5	0.5
103.5°	0.1	0.5	0.5	0.5	0.5	0.5
104°	0.2	0.5	0.5	0.5	0.5	0.5
104.5°	0.2	0.5	0.5	0.5	0.5	0.5
105°	0.2	0.5	0.5	0.5	0.5	0.5
105.5°	0.2	0.5	0.5	0.5	0.5	0.5
106°	0.2	0.5	0.5	0.5	0.5	0.5
106.5°	0.2	0.5	0.5	0.5	0.5	0.5
107°	0.3	0.5	0.5	0.5	0.5	0.5
107.5°	0.3	0.5	0.5	0.5	0.5	0.5
108°	0.3	0.5	0.5	0.5	0.5	0.5
108.5°	0.3	0.5	0.5	0.5	0.5	0.5
109°	0.3	0.5	0.5	0.5	0.5	0.5
109.5°	0.3	0.5	0.5	0.5	0.5	0.5
110°	0.3	0.5	0.5	0.5	0.5	0.5
110.5°	0.3	0.5	0.5	0.5	0.5	0.5
111°	0.3	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	1.0	1.0	1.0	1.0	1.0
135.5°	0.5	1.0	1.0	1.0	1.0	1.0
136°	0.4	1.0	1.0	1.0	1.0	1.0
136.5°	0.5	1.0	1.0	1.0	1.0	1.0
137°	0.6	1.0	1.0	1.0	1.0	1.0
137.5°	0.6	1.0	1.0	1.0	1.0	1.0
138°	0.6	1.0	1.0	1.0	1.0	1.0
138.5°	0.6	1.0	1.0	1.0	1.0	1.0
139°	0.6	1.0	1.0	1.0	1.0	1.0
139.5°	0.6	1.0	1.0	1.0	1.0	1.0
140°	0.6	1.0	1.0	1.0	1.0	1.0
140.5°	0.6	1.0	1.0	1.0	1.0	1.0
141°	0.8	1.0	1.0	1.0	1.0	1.0
141.5°	0.7	1.0	1.0	1.0	1.0	1.0
142°	0.7	1.0	1.0	1.0	1.0	1.0
142.5°	0.6	1.0	1.0	1.0	1.0	1.0
143°	0.8	1.0	1.0	1.0	1.0	1.0
143.5°	0.7	1.0	1.0	1.0	1.0	1.0
144°	0.6	1.0	1.0	1.0	1.0	1.0
144.5°	0.8	1.0	1.0	1.0	1.0	1.0
145°	0.6	1.0	1.0	1.0	1.0	1.0
145.5°	0.8	1.0	1.0	1.0	1.0	1.0
146°	0.8	1.0	1.0	1.0	1.0	1.0
146.5°	0.8	1.0	1.0	1.0	1.0	1.0
147°	0.8	1.0	1.0	1.0	1.0	1.0
147.5°	0.9	1.0	1.0	1.0	1.0	1.0
148°	0.9	1.0	1.0	1.0	1.0	1.0
148.5°	0.9	1.0	1.0	1.0	1.0	1.0
149°	0.9	1.0	1.0	1.0	1.0	1.0
149.5°	0.8	1.0	1.0	1.0	1.0	1.0
150°	0.7	1.0	1.0	1.0	1.0	1.0
150.5°	0.7	1.0	1.0	1.0	1.0	1.0
151°	0.7	1.0	1.0	1.0	1.0	1.0
151.5°	0.9	1.0	1.0	1.0	1.0	1.0
152°	0.8	1.0	1.0	1.0	1.0	1.0
152.5°	0.9	1.0	1.0	1.0	1.0	1.0
153°	0.9	1.0	1.0	1.0	1.0	1.0
153.5°	0.9	1.0	1.0	1.0	1.0	1.0
154°	0.8	1.0	1.0	1.0	1.0	1.0
154.5°	0.9	1.0	1.0	1.0	1.0	1.0
155°	0.9	1.0	1.0	1.0	1.0	1.0
155.5°	0.8	1.0	1.0	1.0	1.0	1.0
156°	0.9	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.0	1.1	1.0	1.0	1.0	1.3
158°	1.0	1.1	1.0	1.0	1.0	1.4
158.5°	1.0	1.1	1.0	1.0	1.0	1.3
159°	1.3	1.1	1.0	1.0	1.1	1.3
159.5°	1.0	1.1	1.0	1.0	1.1	1.3
160°	1.1	1.1	1.0	1.0	1.1	1.3
160.5°	1.1	1.1	1.0	1.0	1.1	1.3
161°	1.2	1.1	1.6	1.1	1.1	1.3
161.5°	1.2	1.1	1.5	1.1	1.1	1.3
162°	1.2	1.1	1.5	1.1	1.1	1.3
162.5°	1.2	1.1	1.6	1.1	1.1	1.3
163°	1.2	1.1	1.5	1.1	1.1	1.3
163.5°	1.2	1.2	1.5	1.1	1.1	1.3
164°	1.2	1.2	1.5	1.1	1.5	1.3
164.5°	1.3	1.3	1.5	1.1	1.5	1.3
165°	1.3	1.4	1.5	1.1	1.6	1.3
165.5°	0.9	1.7	1.5	1.1	1.5	1.3
166°	1.2	1.7	1.5	1.2	1.5	1.3
166.5°	1.3	1.6	1.5	1.1	1.5	1.3
167°	1.3	1.6	1.5	1.2	1.5	1.3
167.5°	1.3	1.6	1.5	1.7	1.5	1.3
168°	1.3	1.6	1.5	1.7	1.5	1.3
168.5°	1.3	1.6	1.5	1.7	1.5	1.3
169°	1.3	1.6	1.5	1.7	1.5	1.3
169.5°	1.3	1.6	1.5	1.7	1.5	1.3
170°	1.3	1.6	1.5	1.7	1.5	1.3
170.5°	1.3	1.6	1.5	1.7	1.5	1.3
171°	1.3	1.6	1.6	1.7	1.5	1.3
171.5°	1.3	1.6	1.6	1.7	1.5	1.3
172°	1.3	1.6	1.6	1.7	1.5	1.3
172.5°	1.3	1.6	1.6	1.7	1.5	1.3
173°	1.3	1.6	1.6	1.6	1.5	1.3
173.5°	1.3	1.6	1.6	1.6	1.5	1.3
174°	1.3	1.6	1.6	1.6	1.5	1.3
174.5°	1.3	1.6	1.6	1.6	1.5	1.3
175°	1.3	1.6	1.6	1.6	1.5	1.3
175.5°	1.3	1.6	1.6	1.6	1.5	1.3
176°	1.3	1.6	1.6	1.6	1.5	1.3
176.5°	1.3	1.6	1.6	1.6	1.5	1.3
177°	1.3	1.6	1.6	1.7	1.5	1.3
177.5°	1.3	1.6	1.6	1.7	1.5	1.3
178°	1.3	1.6	1.6	1.7	1.5	1.3
178.5°	1.3	1.6	1.6	1.7	1.5	1.3



TEST NUMBER: P417437

CATALOG NUMBER: SMD6S129SWH - 2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.3	1.3	1.3	1.3	1.3	1.3



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	380.0	377.5	376.6	376.2	377.1	377.0	378.3	380.0	381.8	383.0	384.0
22°	378.4	376.1	375.0	374.5	375.6	375.6	376.9	378.4	380.4	381.6	382.5



44°	282.3	278.3	275.9	275.3	278.5	278.9	281.1	284.2	288.1	289.9	291.7
44.5°	279.5	275.5	272.9	272.5	275.7	276.1	278.4	281.6	285.4	287.2	288.9



66.5°	139.8	135.4	132.6	131.6	134.7	135.9	139.0	143.6	148.7	151.1	152.9
67°	136.4	131.9	129.1	128.2	131.2	132.3	135.7	140.1	145.3	147.8	149.8



89°	1.5	0.7	0.6	0.6	0.3	0.8	3.1	6.0	9.1	11.4	12.6
89.5°	0.7	0.6	0.6	0.6	0.3	0.3	0.9	4.1	6.8	9.0	10.2



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



134°	1.0	1.0	1.0	1.1	0.7	0.5	0.6	0.8	0.7	0.6	0.5
134.5°	1.0	1.0	1.0	1.0	0.7	0.6	0.6	0.8	0.7	0.6	0.5



156.5°	1.1	1.3	1.0	1.1	1.1	1.2	1.0	0.9	1.2	1.1	1.3
157°	1.1	1.3	1.0	1.2	1.0	1.2	1.0	0.9	1.2	1.1	1.2



179°	1.3	1.3	1.2	1.4	1.4	1.6	1.6	1.6	1.5	1.3	1.3
179.5°	1.3	1.3	1.2	1.8	1.5	1.6	1.6	1.6	1.5	1.3	1.3





21.5°	384.7	384.9	383.5	382.7	381.4	380.0
22°	383.2	383.5	382.3	381.4	379.8	378.4



44°	292.8	292.1	289.7	287.0	284.3	282.3
44.5°	290.2	289.3	286.8	284.4	281.7	279.5



66.5°	154.7	153.4	150.4	146.9	143.0	139.8
67°	151.3	150.0	147.1	143.3	139.5	136.4



89°	13.1	10.9	9.1	6.6	4.2	1.5
89.5°	10.7	8.5	6.9	4.4	2.0	0.7



111.5°	0.3	0.5	0.5	0.5	0.5	0.5
112°	0.3	0.5	0.5	0.5	0.5	0.5



134°	0.5	1.0	1.1	0.9	1.0	1.0
134.5°	0.6	1.0	1.0	0.9	1.0	1.0



156.5°	0.9	1.2	1.0	1.0	1.0	1.1
157°	0.8	1.2	1.0	1.0	1.0	1.1



179°	1.2	1.6	1.6	1.7	1.5	1.3
179.5°	1.2	1.6	1.6	1.7	1.5	1.3



(END OF REPORT)