

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: P417444

Luminaire Tested: **SMD6S129SWHE - 3500K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2008665A001)
Test Lab:
Issue Date: 11/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S129SWHE - 3500K
Description: SMD SELECTABLE CCT 3500K
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.5 lumens
Efficiency: N/A
Efficacy: 91.1 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

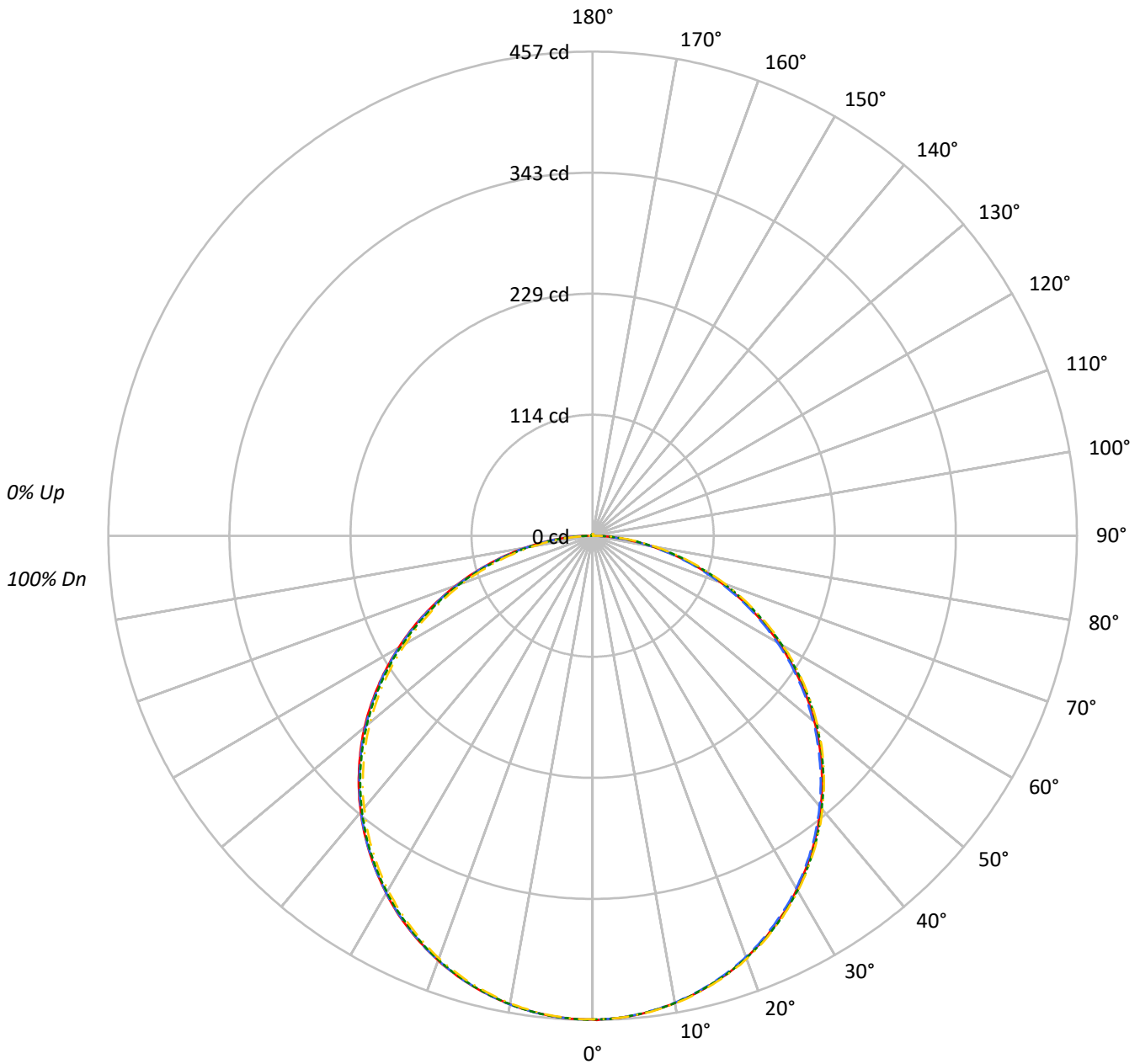
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	36	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	39	31	26	37	30	26	37	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19655	19655	19655	19655
5°	19635	19631	19657	19657
10°	19578	19573	19630	19626
15°	19506	19497	19595	19582
20°	19423	19436	19542	19510
25°	19307	19345	19468	19411
30°	19161	19220	19370	19305
35°	18996	19074	19264	19185
40°	18817	18902	19132	19031
45°	18590	18705	18998	18852
50°	18306	18460	18815	18635
55°	17941	18158	18541	18346
60°	17489	17756	18221	17946
65°	16891	17217	17788	17431
70°	16151	16504	17259	16831
75°	15172	15637	16586	15970
80°	13835	14505	15893	14926
85°	11659	13289	15611	13733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	3.2
10°-20°	123.7	9.2
20°-30°	187.9	14.0
30°-40°	227.4	17.0
40°-50°	237.3	17.7
50°-60°	216.4	16.2
60°-70°	167.5	12.5
70°-80°	100.1	7.5
80°-90°	30.7	2.3
90°-100°	0.6	0.0
100°-110°	0.5	0.0
110°-120°	0.7	0.1
120°-130°	0.8	0.1
130°-140°	0.8	0.1
140°-150°	0.7	0.1
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	354.8	26.5
0°-40°	582.2	43.5
0°-60°	1035.9	77.3
0°-90°	1334.2	99.6
90°-120°	1.8	0.1
90°-150°	4.1	0.3
90°-180°	5.0	0.4
0°-180°	1339.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	454	454	455	455	454	43
15°	438	437	440	439	438	124
25°	406	407	410	409	406	187
35°	361	363	366	365	361	226
45°	305	307	312	310	305	235
55°	239	242	247	244	239	214
65°	166	169	175	171	166	164
75°	91	94	100	96	91	96
85°	24	27	32	28	24	26
90°	1	1	4	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	1
115°	1	1	0	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	2	2	1	1	0
175°	2	2	2	1	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°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5
0.5°	457.2	456.5	456.5	456.9	456.6	457.0	456.3	456.6	456.7	456.5	456.5
1°	456.6	456.5	456.5	456.7	456.5	456.9	456.4	456.8	456.6	456.7	456.6
1.5°	456.3	456.3	456.4	456.4	456.4	456.7	456.2	456.6	456.4	456.4	456.5
2°	456.3	456.3	456.2	456.1	456.4	456.6	456.2	456.4	456.3	456.6	456.4
2.5°	455.9	455.8	455.9	455.9	456.0	456.4	455.9	456.4	456.3	456.3	456.3
3°	455.7	455.7	455.5	455.9	455.6	456.0	455.8	456.2	456.0	456.2	456.1
3.5°	455.5	455.3	455.3	455.5	455.4	455.8	455.4	455.9	455.8	455.8	455.9
4°	455.1	455.0	454.9	455.1	455.1	455.3	455.2	455.7	455.6	455.7	455.5
4.5°	454.7	454.5	454.5	454.5	454.6	455.1	454.8	455.4	455.2	455.3	455.2
5°	454.3	454.3	454.1	454.1	454.2	454.6	454.4	455.0	454.8	455.0	454.7
5.5°	453.9	453.7	453.6	453.7	453.8	454.1	454.0	454.5	454.5	454.5	454.4
6°	453.4	453.3	453.1	453.3	453.2	453.6	453.6	454.0	453.8	454.2	454.0
6.5°	452.7	452.5	452.5	452.6	452.7	453.2	453.0	453.5	453.5	453.6	453.6
7°	452.2	452.0	451.8	452.2	452.0	452.7	452.6	453.0	452.9	453.3	453.2
7.5°	451.5	451.3	451.3	451.5	451.4	452.1	452.0	452.5	452.5	452.5	452.5
8°	450.9	450.6	450.6	450.8	450.9	451.3	451.2	451.8	451.7	452.0	452.0
8.5°	450.0	449.8	449.8	449.9	450.1	450.6	450.6	451.0	451.2	451.3	451.2
9°	449.4	449.1	449.1	449.3	449.3	450.0	449.9	450.4	450.5	450.6	450.6
9.5°	448.5	448.2	448.2	448.5	448.5	449.3	449.2	449.7	449.9	449.8	449.9
10°	447.8	447.3	447.4	447.6	447.7	448.5	448.4	449.0	449.0	449.3	449.3
10.5°	447.0	446.5	446.6	446.8	446.8	447.5	447.5	448.1	448.4	448.4	448.5
11°	446.1	445.6	445.4	445.9	445.9	446.7	446.7	447.3	447.4	447.7	447.7
11.5°	445.1	444.8	444.7	444.8	445.2	445.6	445.7	446.2	446.7	446.7	446.6
12°	444.1	443.7	443.7	443.9	444.1	444.8	444.8	445.3	445.7	445.9	445.9
12.5°	443.1	442.6	442.5	442.9	443.1	443.8	443.9	444.3	444.9	445.1	444.8
13°	442.1	441.6	441.5	441.8	441.9	442.9	442.8	443.4	443.7	444.0	443.8
13.5°	441.1	440.4	440.5	440.6	440.9	441.5	441.8	442.4	442.9	443.1	442.8
14°	440.0	439.1	439.2	439.4	439.7	440.6	440.7	441.4	441.8	442.0	441.8
14.5°	438.7	438.1	438.1	438.3	438.6	439.3	439.5	440.2	440.8	440.8	440.6
15°	437.6	436.9	436.9	437.0	437.4	438.3	438.3	439.0	439.6	439.7	439.5
15.5°	436.4	435.7	435.6	436.0	436.3	437.0	437.1	437.9	438.5	438.8	438.4
16°	435.3	434.5	434.3	434.6	435.2	436.0	435.9	436.7	437.2	437.4	437.3
16.5°	434.0	433.0	433.2	433.3	433.9	434.5	434.6	435.6	436.1	436.2	436.0
17°	432.8	431.8	431.8	432.1	432.7	433.5	433.4	434.4	435.0	435.0	434.7
17.5°	431.4	430.4	430.4	430.7	431.3	432.0	432.1	432.9	433.5	433.9	433.4
18°	430.0	429.0	429.0	429.3	429.9	430.8	430.8	431.5	432.2	432.2	432.1
18.5°	428.5	427.6	427.5	427.8	428.6	429.2	429.4	430.1	431.0	431.0	430.7
19°	426.9	426.1	426.0	426.4	427.1	427.9	428.1	428.8	429.5	429.5	429.3
19.5°	425.2	424.4	424.5	425.0	425.6	426.3	426.4	427.3	428.0	428.3	427.8
20°	423.9	423.0	422.9	423.3	424.2	424.9	424.8	425.8	426.5	426.6	426.4
20.5°	422.2	421.4	421.4	421.7	422.6	423.1	423.4	424.2	424.9	425.1	424.9
21°	420.6	419.8	419.8	420.0	421.0	421.7	421.9	422.7	423.3	423.5	423.2



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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°	415.5	414.6	414.4	415.0	416.0	416.4	416.8	417.8	418.5	418.6	418.3
23°	413.8	412.7	412.6	413.0	414.4	414.9	415.1	415.9	416.8	416.9	416.6
23.5°	412.0	410.7	411.0	411.1	412.7	413.0	413.3	414.3	415.1	415.2	414.7
24°	410.1	408.9	408.9	409.2	410.9	411.1	411.4	412.4	413.4	413.4	413.0
24.5°	408.2	407.0	407.0	407.4	409.0	409.3	409.6	410.7	411.7	411.5	411.3
25°	406.4	405.0	405.1	405.5	407.2	407.4	407.6	408.6	409.8	409.7	409.4
25.5°	404.2	402.9	403.0	403.6	405.4	405.5	405.8	406.9	408.0	407.9	407.6
26°	402.4	401.1	401.0	401.6	403.3	403.6	404.0	404.9	406.1	406.1	405.6
26.5°	400.4	399.3	399.1	399.8	401.4	401.5	402.0	403.0	404.2	404.0	403.7
27°	398.6	397.3	397.0	397.7	399.3	399.7	399.9	401.0	402.3	402.0	401.9
27.5°	396.4	395.2	395.1	395.8	397.3	397.5	397.9	399.2	400.3	400.1	399.8
28°	394.4	393.1	393.0	393.5	395.0	395.4	395.8	397.1	398.1	398.1	397.8
28.5°	392.1	391.0	390.8	391.3	393.1	393.0	393.9	394.9	396.1	396.1	395.8
29°	389.9	388.6	388.6	389.2	390.8	391.1	391.7	392.8	394.0	394.0	393.9
29.5°	387.6	386.6	386.4	387.1	388.5	388.8	389.5	390.6	391.9	391.8	391.6
30°	385.4	384.4	384.2	384.6	386.6	386.8	387.3	388.4	389.6	389.4	389.5
30.5°	383.2	382.1	381.9	382.5	384.5	384.5	385.1	386.3	387.3	387.4	387.1
31°	380.9	379.7	379.6	380.1	382.3	382.3	382.8	384.1	385.1	385.0	385.0
31.5°	378.6	377.4	377.2	378.0	379.9	380.1	380.5	381.7	382.9	382.9	382.6
32°	376.1	374.9	374.9	375.5	377.7	377.8	378.2	379.5	380.6	380.4	380.3
32.5°	373.8	372.6	372.5	373.4	375.2	375.4	376.0	377.1	378.4	378.3	378.1
33°	371.3	370.1	370.0	370.8	372.9	373.0	373.5	374.9	376.1	375.8	375.9
33.5°	368.8	367.7	367.5	368.4	370.3	370.5	371.2	372.4	373.6	373.4	373.3
34°	366.4	365.4	365.3	365.8	368.0	368.1	368.6	370.1	371.2	371.0	370.9
34.5°	364.0	362.9	362.5	363.5	365.5	365.8	366.3	367.6	368.9	368.7	368.5
35°	361.4	360.4	360.2	360.8	362.9	363.3	363.8	365.3	366.5	366.2	366.1
35.5°	359.0	357.8	357.5	358.4	360.2	361.0	361.4	362.8	364.0	363.8	363.7
36°	356.3	355.2	355.1	355.7	358.0	358.4	358.8	360.3	361.5	361.3	361.3
36.5°	353.8	352.6	352.3	353.0	355.6	355.7	356.4	357.6	359.0	358.9	358.6
37°	351.2	350.0	349.8	350.3	352.7	353.1	353.6	355.0	356.3	356.3	356.1
37.5°	348.5	347.3	347.0	347.7	350.1	350.6	351.1	352.4	353.9	353.8	353.4
38°	345.8	344.6	344.4	345.0	347.5	347.8	348.2	349.9	351.2	351.0	350.9
38.5°	343.0	341.9	341.5	342.2	344.7	345.1	345.7	347.1	348.5	348.3	348.1
39°	340.3	339.0	338.7	339.4	342.1	342.4	342.9	344.4	345.8	345.7	345.5
39.5°	337.5	336.3	335.9	336.8	339.6	339.7	340.1	341.7	343.2	342.9	342.8
40°	334.8	333.5	333.1	334.0	336.3	337.0	337.3	338.9	340.4	340.0	340.1
40.5°	331.8	330.5	330.3	331.1	333.6	334.0	334.5	336.1	337.6	337.1	337.1
41°	329.3	327.8	327.4	328.3	330.9	331.4	331.7	333.4	334.9	334.5	334.3
41.5°	326.3	324.9	324.4	325.4	328.0	328.6	328.9	330.4	332.3	331.9	331.3
42°	323.4	321.8	321.5	322.4	325.0	325.7	326.0	327.5	329.3	329.1	328.7
42.5°	320.5	318.9	318.6	319.6	322.3	322.6	323.1	324.6	326.6	326.1	325.7
43°	317.6	315.9	315.6	316.5	319.3	319.8	320.1	321.7	323.7	323.1	322.9
43.5°	314.4	312.8	312.5	313.5	316.3	316.7	317.2	318.8	320.7	320.3	319.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	305.3	303.6	303.2	304.2	307.2	307.6	308.2	309.8	312.0	311.2	310.9
45.5°	302.2	300.7	300.1	301.1	304.2	304.5	305.2	306.7	308.9	308.3	307.8
46°	299.0	297.4	297.0	298.0	301.1	301.4	302.0	303.6	306.0	305.1	304.8
46.5°	296.0	294.5	293.8	295.1	298.0	298.5	299.2	300.5	302.8	302.3	301.6
47°	292.9	291.1	290.8	291.8	294.9	295.4	296.1	297.6	299.9	299.1	298.6
47.5°	289.6	288.1	287.5	288.7	291.8	292.3	293.0	294.6	296.6	296.0	295.5
48°	286.5	284.8	284.4	285.4	288.7	289.1	289.6	291.3	293.8	292.9	292.5
48.5°	283.1	281.6	281.3	282.2	285.5	286.0	286.6	288.1	290.5	289.8	289.2
49°	279.9	278.2	278.0	279.0	282.1	282.7	283.1	285.0	287.4	286.4	286.2
49.5°	276.6	275.0	274.7	275.6	279.0	279.3	280.0	281.8	284.1	283.3	282.9
50°	273.3	271.7	271.3	272.2	275.6	276.1	276.7	278.6	280.9	280.2	279.7
50.5°	269.9	268.2	267.8	268.8	272.4	272.7	273.5	275.5	277.5	277.0	276.4
51°	266.6	264.9	264.5	265.5	269.0	269.4	270.1	272.1	274.2	273.6	273.1
51.5°	263.3	261.7	261.2	262.2	265.8	266.2	267.0	268.7	271.0	270.3	269.7
52°	260.0	258.3	257.9	258.8	262.6	262.9	263.6	265.5	267.6	266.8	266.3
52.5°	256.6	254.8	254.5	255.4	259.0	259.5	260.3	262.3	264.1	263.5	263.0
53°	253.0	251.4	251.0	251.9	255.7	256.1	256.9	258.9	260.8	260.3	259.9
53.5°	249.6	247.9	247.6	248.3	252.2	252.8	253.5	255.5	257.4	256.9	256.4
54°	246.0	244.5	244.0	244.9	248.6	249.3	250.1	251.9	254.0	253.4	252.9
54.5°	242.5	241.0	240.5	241.4	245.2	245.9	246.7	248.6	250.6	250.0	249.6
55°	239.0	237.5	237.1	237.9	241.9	242.3	243.2	245.1	247.0	246.5	246.1
55.5°	235.3	233.8	233.4	234.3	238.1	238.8	239.7	241.5	243.7	242.9	242.8
56°	231.8	230.4	230.0	230.7	234.7	235.3	236.3	238.0	240.0	239.6	239.2
56.5°	228.4	227.1	226.5	227.3	231.1	231.8	232.7	234.6	236.6	236.1	235.7
57°	224.8	223.3	223.0	223.8	227.7	228.3	229.3	231.0	232.9	232.6	232.1
57.5°	221.1	219.7	219.4	220.2	224.2	224.8	225.7	227.7	229.5	229.0	228.8
58°	217.6	216.2	215.7	216.4	220.7	221.2	222.2	224.1	225.9	225.5	225.1
58.5°	213.9	212.6	212.0	212.9	217.1	217.6	218.6	220.5	222.6	222.1	221.7
59°	210.4	209.0	208.5	209.2	213.5	213.9	215.1	216.8	218.8	218.5	218.0
59.5°	206.6	205.3	204.7	205.6	209.8	210.3	211.3	213.2	215.3	214.8	214.5
60°	203.1	201.6	201.1	201.9	206.2	206.7	207.6	209.5	211.6	211.2	210.8
60.5°	199.3	198.0	197.4	198.3	202.5	202.9	204.0	205.8	208.1	207.5	207.1
61°	195.8	194.3	193.8	194.6	198.9	199.3	200.3	202.1	204.4	203.9	203.4
61.5°	192.0	190.6	190.1	191.0	195.1	195.6	196.7	198.4	200.9	200.2	199.7
62°	188.4	186.9	186.4	187.2	191.6	192.1	193.0	194.7	197.2	196.7	196.1
62.5°	184.5	183.1	182.6	183.3	187.8	188.3	189.3	191.0	193.5	192.9	192.5
63°	180.8	179.4	178.9	179.8	184.0	184.6	185.6	187.2	189.6	189.2	188.7
63.5°	177.0	175.6	175.2	176.1	180.4	180.8	181.9	183.5	186.1	185.4	185.0
64°	173.4	171.8	171.5	172.3	176.5	177.2	178.0	179.7	182.3	181.8	181.2
64.5°	169.5	168.1	167.7	168.4	172.8	173.3	174.4	175.9	178.6	178.0	177.5
65°	165.8	164.4	164.0	164.9	169.0	169.6	170.6	172.2	174.6	174.2	173.6
65.5°	162.0	160.7	160.2	161.1	165.2	165.8	166.9	168.4	171.1	170.5	169.9
66°	158.4	157.0	156.5	157.5	161.3	162.1	163.1	164.7	167.2	166.5	166.1



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	147.2	145.6	145.3	146.2	150.3	150.9	152.0	153.7	156.0	155.6	155.0
68°	143.4	141.7	141.5	142.4	146.4	147.1	148.3	150.1	152.1	151.7	151.2
68.5°	139.6	138.0	137.7	138.5	142.7	143.3	144.5	146.4	148.4	148.0	147.5
69°	135.9	134.3	133.9	134.9	138.8	139.6	140.7	142.7	144.7	144.1	143.6
69.5°	131.9	130.5	130.2	131.0	135.0	135.7	137.0	138.9	140.9	140.4	139.9
70°	128.3	126.6	126.5	127.3	131.1	132.0	133.2	135.2	137.1	136.6	136.0
70.5°	124.6	123.0	122.6	123.6	127.5	128.1	129.6	131.6	133.4	132.8	132.4
71°	120.9	119.2	118.9	119.8	123.8	124.6	125.8	127.8	129.6	129.1	128.7
71.5°	117.1	115.5	115.2	116.1	120.0	120.7	122.0	124.1	125.8	125.2	124.9
72°	113.4	111.8	111.5	112.3	116.4	117.1	118.3	120.4	122.2	121.7	121.1
72.5°	109.6	108.0	107.6	108.8	112.6	113.4	114.6	116.6	118.5	118.0	117.5
73°	105.8	104.3	104.0	105.0	108.8	109.6	110.9	112.9	114.6	114.3	113.7
73.5°	102.2	100.6	100.3	101.2	105.0	105.8	107.2	109.0	110.9	110.5	110.1
74°	98.4	96.9	96.6	97.4	101.4	102.3	103.6	105.4	107.3	106.8	106.3
74.5°	94.7	93.3	92.9	93.9	97.7	98.5	99.8	101.7	103.5	103.1	102.7
75°	91.2	89.8	89.5	90.4	94.0	94.9	96.2	97.9	99.7	99.4	99.0
75.5°	87.5	86.2	85.8	86.8	90.5	91.2	92.5	94.3	96.0	95.7	95.3
76°	83.9	82.6	82.3	83.1	86.8	87.8	89.0	90.7	92.5	92.1	91.6
76.5°	80.1	79.0	78.8	79.5	83.2	84.1	85.3	87.1	88.9	88.7	88.1
77°	76.6	75.4	75.2	75.9	79.6	80.5	81.8	83.5	85.5	85.0	84.5
77.5°	73.1	71.9	71.6	72.4	76.0	77.0	78.2	79.9	81.7	81.5	80.8
78°	69.5	68.4	68.2	68.8	72.5	73.5	74.7	76.4	78.0	77.8	77.3
78.5°	66.0	65.0	64.8	65.5	68.8	69.9	71.1	72.9	74.7	74.3	73.7
79°	62.5	61.6	61.3	62.0	65.4	66.3	67.6	69.3	71.0	70.8	70.2
79.5°	59.1	58.1	57.9	58.7	62.0	62.9	64.1	65.7	67.5	67.3	66.7
80°	55.8	54.7	54.7	55.3	58.5	59.4	60.7	62.4	64.1	63.7	63.3
80.5°	52.4	51.5	51.4	52.0	55.3	56.2	57.4	59.0	60.6	60.3	59.9
81°	49.0	48.2	48.0	48.6	52.0	52.9	54.1	55.7	57.1	57.0	56.6
81.5°	45.7	45.0	44.8	45.3	48.6	49.5	50.9	52.3	53.8	53.8	53.3
82°	42.3	41.7	41.5	42.0	45.4	46.4	47.5	49.0	50.8	50.4	49.9
82.5°	39.1	38.5	38.4	38.9	42.1	43.1	44.3	45.9	47.3	47.2	46.7
83°	35.8	35.4	35.3	35.8	39.1	40.1	41.1	42.7	44.1	44.0	43.5
83.5°	32.8	32.2	32.0	32.5	35.9	36.8	38.0	39.5	41.0	40.7	40.4
84°	29.6	29.1	29.0	29.5	32.8	33.8	34.9	36.3	37.9	37.7	37.2
84.5°	26.8	26.0	25.9	26.5	29.9	30.8	32.0	33.3	34.8	34.6	34.3
85°	23.6	23.2	23.2	23.6	26.9	27.8	29.0	30.3	31.6	31.6	31.2
85.5°	20.9	20.4	20.3	20.8	23.9	24.9	26.0	27.4	28.7	28.6	28.2
86°	18.0	17.5	17.4	17.9	21.2	22.1	23.2	24.4	25.6	25.6	25.3
86.5°	15.2	14.6	14.5	15.1	18.4	19.3	20.4	21.8	22.9	22.8	22.5
87°	12.3	11.8	11.8	12.3	15.6	16.5	17.6	18.9	20.1	20.1	19.6
87.5°	9.7	9.3	9.0	9.7	12.9	13.8	14.9	16.1	17.2	17.3	16.9
88°	7.3	6.7	6.4	7.2	10.2	11.1	12.3	13.4	14.5	14.6	14.2
88.5°	5.0	4.2	4.0	4.9	7.7	8.6	9.5	10.7	11.7	11.8	11.5



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.7	0.6	0.6	0.7	1.5	2.3	3.4	4.5	4.7	4.1
90.5°	0.6	0.7	0.5	0.6	0.4	0.4	0.8	1.5	2.1	2.3	1.8
91°	0.6	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.3	0.5	0.3
91.5°	0.5	0.6	0.5	0.6	0.4	0.5	0.3	0.4	0.3	0.5	0.3
92°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.5	0.4
92.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.2	0.4	0.3
93°	0.5	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.2	0.4	0.3
93.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94.5°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.3
95°	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3
95.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.4
96°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4
96.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.4
97°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.5
97.5°	0.5	0.6	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.5
98°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4
98.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.4
99°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.2	0.5	0.4
99.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
100°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
100.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
101°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
101.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
102°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
102.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
103°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
103.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.5
104°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.4
104.5°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.6	0.1	0.5	0.5
105°	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.1	0.5	0.5
105.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.6
106°	0.5	0.6	0.5	0.5	0.5	0.6	0.4	0.5	0.1	0.5	0.6
106.5°	0.5	0.6	0.5	0.5	0.5	0.7	0.4	0.6	0.1	0.5	0.5
107°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.6	0.5	0.5	0.6
107.5°	0.5	0.6	0.5	0.5	0.5	0.7	0.4	0.6	0.5	0.6	0.6
108°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.6	0.5
108.5°	0.5	0.6	0.5	0.5	0.6	0.7	0.4	0.6	0.5	0.6	0.5
109°	0.6	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.6	0.5
109.5°	0.6	0.6	0.5	0.5	0.7	0.7	0.4	0.7	0.6	0.6	0.5
110°	0.6	0.6	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.7	0.5
110.5°	0.6	0.6	0.5	0.5	0.6	0.7	0.5	0.7	0.5	0.7	0.6
111°	0.6	0.8	0.5	0.5	0.6	0.7	0.4	0.7	0.5	0.7	0.6



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.6	0.7	0.7	0.5	0.6	0.7	0.6	0.8	0.5	0.7	0.6
113°	0.7	0.9	0.7	0.5	0.6	0.7	0.6	0.8	0.5	0.7	0.5
113.5°	0.7	0.9	0.8	0.6	0.6	0.7	0.6	0.7	0.5	0.7	0.7
114°	0.7	1.0	0.9	0.6	0.6	0.7	0.6	0.7	0.5	0.7	0.7
114.5°	0.7	1.0	1.1	0.6	0.6	0.8	0.6	0.7	0.5	0.7	0.6
115°	0.7	1.1	1.0	0.6	0.6	0.8	0.6	0.7	0.4	0.7	0.6
115.5°	0.7	1.1	1.0	0.6	0.6	0.8	0.6	0.7	0.4	0.7	0.6
116°	0.7	1.1	1.1	0.6	0.6	0.7	0.6	0.7	0.5	0.8	0.6
116.5°	0.8	1.1	1.1	0.6	0.6	0.9	0.7	0.8	0.4	0.7	0.7
117°	0.8	1.2	1.1	0.6	0.6	0.9	0.7	0.8	0.4	0.7	0.6
117.5°	0.8	1.1	1.1	0.6	0.6	0.8	0.7	0.9	0.7	0.7	0.7
118°	0.8	1.1	1.2	0.7	0.6	0.8	0.7	0.9	0.7	0.7	0.8
118.5°	0.8	1.1	1.2	0.6	0.6	0.8	0.7	0.8	0.7	0.7	0.8
119°	0.8	1.1	1.2	0.8	0.6	0.8	0.7	0.8	0.7	0.7	0.7
119.5°	0.8	1.1	1.1	0.8	0.8	0.8	0.6	0.8	0.7	0.8	0.7
120°	0.9	1.1	1.2	0.8	0.8	0.9	0.9	0.9	0.7	0.8	0.7
120.5°	0.9	1.2	1.2	0.8	0.7	0.9	0.7	0.9	0.7	0.9	0.8
121°	0.9	1.2	1.1	0.9	0.8	0.9	0.7	0.9	0.7	0.9	0.8
121.5°	0.9	1.2	1.1	0.9	0.8	0.9	0.7	0.9	0.7	0.8	0.8
122°	0.9	1.3	1.1	0.8	0.7	0.9	0.7	0.9	0.8	0.8	0.8
122.5°	0.9	1.3	1.1	0.8	0.7	0.9	0.8	0.9	0.8	0.8	0.9
123°	0.9	1.2	1.1	0.9	0.7	0.9	0.7	0.9	0.9	0.9	0.8
123.5°	0.9	1.2	1.1	0.9	0.7	0.9	0.9	0.9	0.8	0.9	0.8
124°	0.9	1.2	1.1	0.9	0.6	0.9	0.9	0.9	0.8	0.9	0.8
124.5°	0.9	1.2	1.1	0.9	0.6	0.9	0.8	0.9	0.8	0.9	0.8
125°	0.9	1.2	1.1	0.9	0.7	0.9	0.8	0.9	0.8	0.9	0.8
125.5°	0.9	1.2	1.1	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.8
126°	0.9	1.2	1.1	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8
126.5°	0.9	1.2	1.1	1.0	0.9	0.9	0.7	0.9	0.9	0.9	0.8
127°	0.9	1.2	1.1	1.0	0.9	0.9	0.8	0.9	0.9	0.9	0.8
127.5°	0.9	1.2	1.1	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8
128°	0.9	1.2	1.1	0.9	0.8	0.9	0.7	0.9	0.9	0.9	0.8
128.5°	1.0	1.2	1.1	0.9	0.8	0.9	0.8	0.9	0.9	0.9	0.8
129°	1.0	1.2	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
129.5°	1.0	1.2	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8
130°	1.0	1.2	1.1	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.8
130.5°	1.0	1.2	1.1	1.1	0.8	0.9	0.9	0.9	0.9	0.9	0.9
131°	1.0	1.2	1.1	1.1	0.8	0.9	1.0	0.9	0.9	0.9	0.9
131.5°	1.0	1.2	1.1	1.1	0.8	0.9	0.9	0.9	0.9	0.9	0.9
132°	1.0	1.2	1.1	1.1	0.8	0.9	0.9	0.9	0.9	0.9	0.9
132.5°	1.0	1.2	1.1	1.1	0.8	0.9	0.9	0.9	0.9	1.0	0.9
133°	1.0	1.2	1.1	1.1	0.9	1.0	0.9	0.9	0.9	1.0	0.9
133.5°	1.0	1.2	1.1	1.1	0.9	1.0	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	456.5	456.5	456.5	456.5	456.5	456.5
0.5°	456.9	456.9	456.9	456.3	456.7	457.2
1°	456.8	456.7	456.7	456.5	456.8	456.6
1.5°	456.6	456.6	456.9	456.3	456.6	456.3
2°	456.5	456.4	456.6	456.3	456.4	456.3
2.5°	456.2	456.2	456.4	455.9	456.2	455.9
3°	456.2	455.9	456.1	455.8	455.7	455.7
3.5°	455.9	455.7	455.8	455.4	455.5	455.5
4°	455.6	455.5	455.6	455.1	455.3	455.1
4.5°	455.3	455.2	455.3	454.7	454.9	454.7
5°	455.1	454.8	454.9	454.3	454.6	454.3
5.5°	454.6	454.4	454.5	453.9	454.0	453.9
6°	454.2	454.1	454.0	453.3	453.5	453.4
6.5°	453.7	453.5	453.5	452.9	452.9	452.7
7°	453.0	453.0	452.9	452.1	452.3	452.2
7.5°	452.6	452.5	452.3	451.7	451.7	451.5
8°	452.1	452.0	451.6	451.0	451.1	450.9
8.5°	451.4	451.2	451.1	450.5	450.5	450.0
9°	450.7	450.5	450.3	449.6	449.7	449.4
9.5°	450.1	449.7	449.5	448.9	448.6	448.5
10°	449.2	448.9	448.7	448.1	448.0	447.8
10.5°	448.4	448.2	447.9	447.2	447.4	447.0
11°	447.5	447.3	447.0	446.3	446.4	446.1
11.5°	446.8	446.4	446.1	445.3	445.4	445.1
12°	445.6	445.3	445.1	444.3	444.6	444.1
12.5°	444.7	444.6	444.0	443.3	443.5	443.1
13°	443.8	443.4	443.0	442.3	442.3	442.1
13.5°	442.8	442.5	442.2	441.3	441.1	441.1
14°	441.6	441.3	441.0	440.2	440.0	440.0
14.5°	440.6	440.4	439.7	439.1	438.9	438.7
15°	439.5	439.3	438.6	438.0	437.8	437.6
15.5°	438.2	438.1	437.3	436.7	436.7	436.4
16°	437.0	437.0	436.2	435.6	435.2	435.3
16.5°	435.8	435.7	434.9	434.1	433.9	434.0
17°	434.6	434.3	433.7	432.9	432.7	432.8
17.5°	433.2	433.1	432.3	431.5	431.6	431.4
18°	432.0	431.7	430.9	430.2	430.0	430.0
18.5°	430.5	430.2	429.3	428.7	428.5	428.5
19°	429.3	428.7	427.9	427.3	427.0	426.9
19.5°	427.6	427.4	426.6	425.8	425.6	425.2
20°	426.3	425.8	425.0	424.4	424.0	423.9
20.5°	424.7	424.3	423.5	422.7	422.4	422.2
21°	423.1	422.7	421.8	421.0	420.7	420.6



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	418.3	417.7	416.8	415.8	415.8	415.5
23°	416.6	415.9	415.2	414.1	413.9	413.8
23.5°	414.7	414.1	413.5	412.4	412.0	412.0
24°	413.0	412.2	411.6	410.6	410.1	410.1
24.5°	411.2	410.5	409.8	408.5	408.2	408.2
25°	409.5	408.6	407.8	406.7	406.3	406.4
25.5°	407.5	406.6	406.0	404.8	404.2	404.2
26°	405.8	404.7	404.0	402.8	402.3	402.4
26.5°	403.8	402.8	402.0	400.7	400.3	400.4
27°	401.9	400.8	400.0	398.8	398.4	398.6
27.5°	400.0	398.8	398.0	396.8	396.3	396.4
28°	397.9	396.8	396.0	394.8	394.3	394.4
28.5°	395.8	394.8	393.7	392.5	392.1	392.1
29°	393.7	392.6	391.6	390.6	389.9	389.9
29.5°	391.5	390.6	389.5	388.3	387.8	387.6
30°	389.4	388.3	387.2	386.2	385.5	385.4
30.5°	387.1	386.1	385.1	383.8	383.3	383.2
31°	385.0	383.8	382.9	381.6	381.0	380.9
31.5°	382.7	381.7	380.6	379.2	378.8	378.6
32°	380.4	379.3	378.4	376.8	376.3	376.1
32.5°	377.9	377.0	375.8	374.4	374.0	373.8
33°	375.6	374.6	373.6	372.1	371.4	371.3
33.5°	373.1	372.4	371.0	369.7	369.1	368.8
34°	370.9	369.8	368.5	367.3	366.7	366.4
34.5°	368.3	367.5	366.2	364.8	364.2	364.0
35°	366.0	365.0	363.8	362.3	361.6	361.4
35.5°	363.6	362.7	361.3	359.8	359.4	359.0
36°	361.2	360.0	358.7	357.3	356.5	356.3
36.5°	358.5	357.5	356.2	354.6	353.9	353.8
37°	356.1	355.0	353.6	352.0	351.2	351.2
37.5°	353.3	352.3	351.0	349.3	348.5	348.5
38°	350.7	349.5	348.2	346.5	345.6	345.8
38.5°	348.0	346.7	345.5	343.8	343.2	343.0
39°	345.3	344.2	342.8	341.0	340.3	340.3
39.5°	342.6	341.5	340.1	338.1	337.6	337.5
40°	339.9	338.6	337.1	335.3	334.7	334.8
40.5°	337.2	335.8	334.3	332.6	332.1	331.8
41°	334.3	332.9	331.4	329.8	329.0	329.3
41.5°	331.6	330.2	328.7	326.9	326.1	326.3
42°	328.8	327.2	325.7	323.9	323.2	323.4
42.5°	325.9	324.4	322.9	321.0	320.2	320.5
43°	323.0	321.4	319.8	318.0	317.2	317.6
43.5°	320.1	318.6	316.9	314.9	314.3	314.4



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	310.9	309.6	307.6	305.9	305.1	305.3
45.5°	307.8	306.6	304.7	302.7	302.0	302.2
46°	304.8	303.4	301.5	299.6	298.9	299.0
46.5°	301.8	300.4	298.3	296.6	295.8	296.0
47°	298.7	297.4	295.5	293.4	292.8	292.9
47.5°	295.6	294.3	292.2	290.3	289.6	289.6
48°	292.5	291.1	289.1	287.1	286.3	286.5
48.5°	289.3	288.0	285.9	283.8	283.1	283.1
49°	286.1	284.7	282.7	280.4	279.7	279.9
49.5°	282.8	281.4	279.2	277.1	276.5	276.6
50°	279.6	278.2	275.9	273.9	273.2	273.3
50.5°	276.5	274.9	272.5	270.6	269.8	269.9
51°	273.0	271.5	269.3	267.0	266.3	266.6
51.5°	269.9	268.1	265.9	263.8	263.1	263.3
52°	266.5	264.9	262.6	260.5	259.8	260.0
52.5°	263.2	261.5	259.4	257.2	256.3	256.6
53°	260.1	258.3	255.8	253.6	252.8	253.0
53.5°	256.5	254.8	252.5	250.3	249.3	249.6
54°	253.1	251.4	248.9	246.8	245.9	246.0
54.5°	249.8	247.9	245.5	243.4	242.3	242.5
55°	246.3	244.4	241.9	239.9	238.9	239.0
55.5°	242.8	240.8	238.3	236.5	235.3	235.3
56°	239.2	237.4	234.7	232.9	231.8	231.8
56.5°	235.7	233.8	231.4	229.2	228.3	228.4
57°	232.2	230.2	227.7	225.8	224.7	224.8
57.5°	228.7	226.6	224.3	222.3	221.1	221.1
58°	225.2	223.1	220.8	218.5	217.6	217.6
58.5°	221.5	219.6	217.3	214.9	213.8	213.9
59°	217.9	215.9	213.5	211.2	210.2	210.4
59.5°	214.2	212.2	209.9	207.6	206.6	206.6
60°	210.7	208.4	206.2	203.9	202.9	203.1
60.5°	206.8	204.7	202.5	200.3	199.2	199.3
61°	203.1	201.0	198.8	196.5	195.5	195.8
61.5°	199.3	197.3	195.3	192.9	191.9	192.0
62°	195.6	193.7	191.5	189.2	188.2	188.4
62.5°	191.9	189.9	187.8	185.6	184.4	184.5
63°	188.1	186.1	184.0	181.8	180.5	180.8
63.5°	184.4	182.4	180.4	178.1	176.8	177.0
64°	180.6	178.6	176.6	174.2	173.3	173.4
64.5°	176.8	174.9	172.9	170.6	169.4	169.5
65°	173.0	171.1	169.1	166.9	165.7	165.8
65.5°	169.3	167.3	165.2	163.2	162.0	162.0
66°	165.6	163.5	161.5	159.4	158.4	158.4



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	154.7	152.5	150.2	148.1	147.1	147.2
68°	150.9	148.7	146.4	144.3	143.2	143.4
68.5°	147.2	145.0	142.6	140.6	139.6	139.6
69°	143.4	141.3	138.8	136.8	135.8	135.9
69.5°	139.6	137.5	135.0	133.0	131.9	131.9
70°	135.9	133.7	131.2	129.1	128.2	128.3
70.5°	132.2	129.9	127.4	125.6	124.5	124.6
71°	128.5	126.2	123.8	121.8	120.8	120.9
71.5°	124.7	122.5	120.1	118.0	117.0	117.1
72°	121.1	118.6	116.3	114.2	113.1	113.4
72.5°	117.3	114.9	112.5	110.4	109.5	109.6
73°	113.4	111.1	108.8	106.8	105.7	105.8
73.5°	109.8	107.5	105.0	103.1	102.0	102.2
74°	106.0	103.6	101.3	99.3	98.3	98.4
74.5°	102.2	99.9	97.6	95.7	94.8	94.7
75°	98.4	96.0	94.0	92.1	91.1	91.2
75.5°	94.8	92.5	90.4	88.6	87.4	87.5
76°	91.1	88.8	86.7	84.8	83.7	83.9
76.5°	87.6	85.1	82.9	81.2	80.2	80.1
77°	83.9	81.6	79.5	77.7	76.6	76.6
77.5°	80.4	77.9	75.8	74.2	73.2	73.1
78°	76.7	74.3	72.3	70.7	69.6	69.5
78.5°	73.2	70.8	68.9	67.3	66.2	66.0
79°	69.6	67.3	65.4	63.8	62.7	62.5
79.5°	66.2	63.8	61.9	60.4	59.3	59.1
80°	62.6	60.2	58.5	57.0	55.9	55.8
80.5°	59.2	57.0	55.3	53.8	52.8	52.4
81°	56.0	53.6	51.9	50.5	49.3	49.0
81.5°	52.6	50.2	48.6	47.2	46.1	45.7
82°	49.3	46.9	45.3	43.9	42.8	42.3
82.5°	46.0	43.7	42.1	40.5	39.4	39.1
83°	42.9	40.4	38.9	37.4	36.4	35.8
83.5°	39.7	37.2	35.7	34.2	33.2	32.8
84°	36.5	34.1	32.5	31.1	30.2	29.6
84.5°	33.6	31.0	29.4	28.2	27.0	26.8
85°	30.6	27.8	26.5	25.1	24.0	23.6
85.5°	27.5	24.8	23.5	22.3	21.3	20.9
86°	24.6	21.9	20.6	19.3	18.3	18.0
86.5°	21.9	19.2	17.9	16.5	15.4	15.2
87°	19.1	16.2	15.0	13.7	12.8	12.3
87.5°	16.3	13.6	12.2	10.9	10.1	9.7
88°	13.6	10.8	9.6	8.4	7.7	7.3
88.5°	10.9	8.4	7.1	6.0	5.1	5.0



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	3.9	1.4	1.2	0.7	0.7	0.6
90.5°	1.2	0.7	0.7	0.7	0.4	0.6
91°	0.4	0.7	0.6	0.5	0.5	0.6
91.5°	0.4	0.5	0.6	0.5	0.5	0.5
92°	0.5	0.5	0.5	0.5	0.4	0.5
92.5°	0.4	0.5	0.5	0.5	0.4	0.5
93°	0.4	0.5	0.5	0.5	0.4	0.5
93.5°	0.4	0.5	0.5	0.5	0.5	0.5
94°	0.4	0.5	0.5	0.5	0.5	0.5
94.5°	0.4	0.5	0.5	0.5	0.5	0.5
95°	0.4	0.5	0.5	0.5	0.5	0.5
95.5°	0.4	0.5	0.5	0.5	0.5	0.5
96°	0.4	0.5	0.5	0.5	0.5	0.5
96.5°	0.4	0.5	0.5	0.5	0.5	0.5
97°	0.4	0.5	0.5	0.5	0.4	0.5
97.5°	0.4	0.5	0.5	0.5	0.4	0.5
98°	0.4	0.5	0.5	0.5	0.4	0.5
98.5°	0.4	0.5	0.5	0.5	0.4	0.5
99°	0.4	0.5	0.5	0.5	0.4	0.5
99.5°	0.4	0.5	0.5	0.5	0.4	0.5
100°	0.4	0.5	0.5	0.5	0.4	0.5
100.5°	0.5	0.5	0.5	0.5	0.4	0.5
101°	0.4	0.5	0.5	0.5	0.5	0.5
101.5°	0.5	0.5	0.5	0.5	0.5	0.5
102°	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5
103°	0.5	0.5	0.5	0.5	0.5	0.5
103.5°	0.5	0.5	0.5	0.5	0.5	0.5
104°	0.5	0.5	0.5	0.5	0.5	0.5
104.5°	0.6	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.5	0.5	0.5	0.5	0.5
105.5°	0.5	0.5	0.5	0.5	0.5	0.5
106°	0.7	0.5	0.5	0.5	0.5	0.5
106.5°	0.7	0.5	0.5	0.5	0.5	0.5
107°	0.6	0.5	0.5	0.5	0.6	0.5
107.5°	0.6	0.5	0.5	0.5	0.5	0.5
108°	0.6	0.5	0.5	0.5	0.7	0.5
108.5°	0.7	0.5	0.5	0.5	0.7	0.5
109°	0.7	0.5	0.5	0.5	0.7	0.6
109.5°	0.7	0.5	0.5	0.5	0.7	0.6
110°	0.7	0.6	0.5	0.5	0.7	0.6
110.5°	0.7	0.6	0.5	0.5	0.9	0.6
111°	0.7	0.6	0.5	0.5	0.8	0.6



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.7	0.6	0.8	0.7	0.8	0.6
113°	0.7	0.6	1.0	0.8	0.8	0.7
113.5°	0.7	0.6	1.0	0.9	0.7	0.7
114°	0.7	0.6	0.9	0.9	0.7	0.7
114.5°	0.8	0.6	1.1	1.0	0.8	0.7
115°	0.7	0.7	1.1	1.0	0.9	0.7
115.5°	0.7	0.7	1.1	1.1	0.9	0.7
116°	0.7	0.8	1.1	1.1	1.0	0.7
116.5°	0.8	0.8	1.2	1.2	0.9	0.8
117°	0.8	0.7	1.1	1.1	0.9	0.8
117.5°	0.8	0.7	1.1	1.1	0.9	0.8
118°	0.8	0.7	1.1	1.1	0.9	0.8
118.5°	0.8	0.8	1.1	1.1	0.9	0.8
119°	0.8	0.8	1.1	1.1	0.9	0.8
119.5°	0.8	0.8	1.1	1.2	0.9	0.8
120°	0.8	0.9	1.1	1.1	0.9	0.9
120.5°	0.8	0.9	1.1	1.1	0.9	0.9
121°	0.8	0.9	1.1	1.1	0.9	0.9
121.5°	0.8	0.9	1.2	1.1	0.9	0.9
122°	0.9	0.9	1.3	1.1	0.9	0.9
122.5°	0.9	0.9	1.2	1.1	0.9	0.9
123°	0.9	0.9	1.2	1.1	0.9	0.9
123.5°	0.9	0.9	1.1	1.1	0.9	0.9
124°	0.9	0.9	1.1	1.1	0.9	0.9
124.5°	0.9	1.0	1.1	1.1	0.9	0.9
125°	0.9	1.0	1.1	1.1	0.9	0.9
125.5°	0.9	1.0	1.1	1.1	0.9	0.9
126°	0.9	1.0	1.1	1.1	0.9	0.9
126.5°	0.9	1.0	1.1	1.1	0.9	0.9
127°	0.9	1.0	1.1	1.1	1.0	0.9
127.5°	0.9	1.0	1.1	1.1	1.0	0.9
128°	0.9	1.0	1.1	1.1	1.0	0.9
128.5°	0.9	1.0	1.2	1.1	1.1	1.0
129°	0.9	1.0	1.2	1.1	1.0	1.0
129.5°	0.9	1.0	1.2	1.1	1.0	1.0
130°	1.0	1.0	1.2	1.1	1.0	1.0
130.5°	0.9	1.0	1.2	1.1	1.0	1.0
131°	0.9	1.0	1.2	1.1	1.0	1.0
131.5°	0.9	1.0	1.2	1.1	1.0	1.0
132°	0.9	1.0	1.2	1.1	1.0	1.0
132.5°	0.9	1.0	1.2	1.1	1.0	1.0
133°	0.9	1.0	1.2	1.1	1.0	1.0
133.5°	0.9	1.0	1.2	1.1	1.0	1.0



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417444

CATALOG NUMBER: SMD6S129SWHE - 3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.6	1.6	1.6	1.6	1.6	1.6



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	419.0	417.8	418.0	418.6	419.2	419.8	420.2	421.1	421.8	421.9	421.6
22°	417.2	416.3	416.3	416.7	417.8	418.3	418.5	419.4	420.2	420.4	420.2



44°	311.4	309.8	309.4	310.3	313.4	313.7	314.3	315.8	317.8	317.2	316.8
44.5°	308.4	306.8	306.3	307.4	310.3	310.6	311.4	312.8	314.8	314.4	313.8



66.5°	154.6	153.2	152.8	153.7	157.7	158.3	159.5	161.1	163.4	162.9	162.3
67°	150.9	149.4	149.1	150.0	153.9	154.6	155.7	157.6	159.7	159.2	158.7



89°	2.1	1.7	1.9	2.5	5.4	6.2	6.9	8.2	9.3	9.3	8.9
89.5°	0.9	0.8	0.8	1.0	3.0	3.9	4.5	5.7	6.8	6.8	6.4



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



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



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



179°	1.6	1.3	1.4	1.6	1.6	1.3	1.3	1.7	1.5	1.7	1.3
179.5°	1.6	1.3	1.4	1.6	1.6	1.3	1.3	1.7	1.5	1.6	1.3





21.5°	421.5	421.1	420.2	419.4	419.2	419.0
22°	420.0	419.4	418.4	417.6	417.3	417.2



44°	317.0	315.6	313.8	312.0	311.3	311.4
44.5°	313.9	312.7	310.8	308.8	308.1	308.4



66.5°	162.0	159.9	157.9	155.7	154.6	154.6
67°	158.3	156.4	154.1	151.8	150.9	150.9



89°	8.4	6.2	5.1	3.6	2.9	2.1
89.5°	6.1	3.9	2.7	1.6	1.3	0.9



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



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



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



179°	1.5	1.3	1.3	1.7	1.5	1.6
179.5°	1.4	1.3	1.3	1.7	1.5	1.6



(END OF REPORT)