

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: P417446

Luminaire Tested: **SMD6S129SWHE - 5000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417446
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 - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1393.8 lumens
Efficiency: N/A
Efficacy: 94.8 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

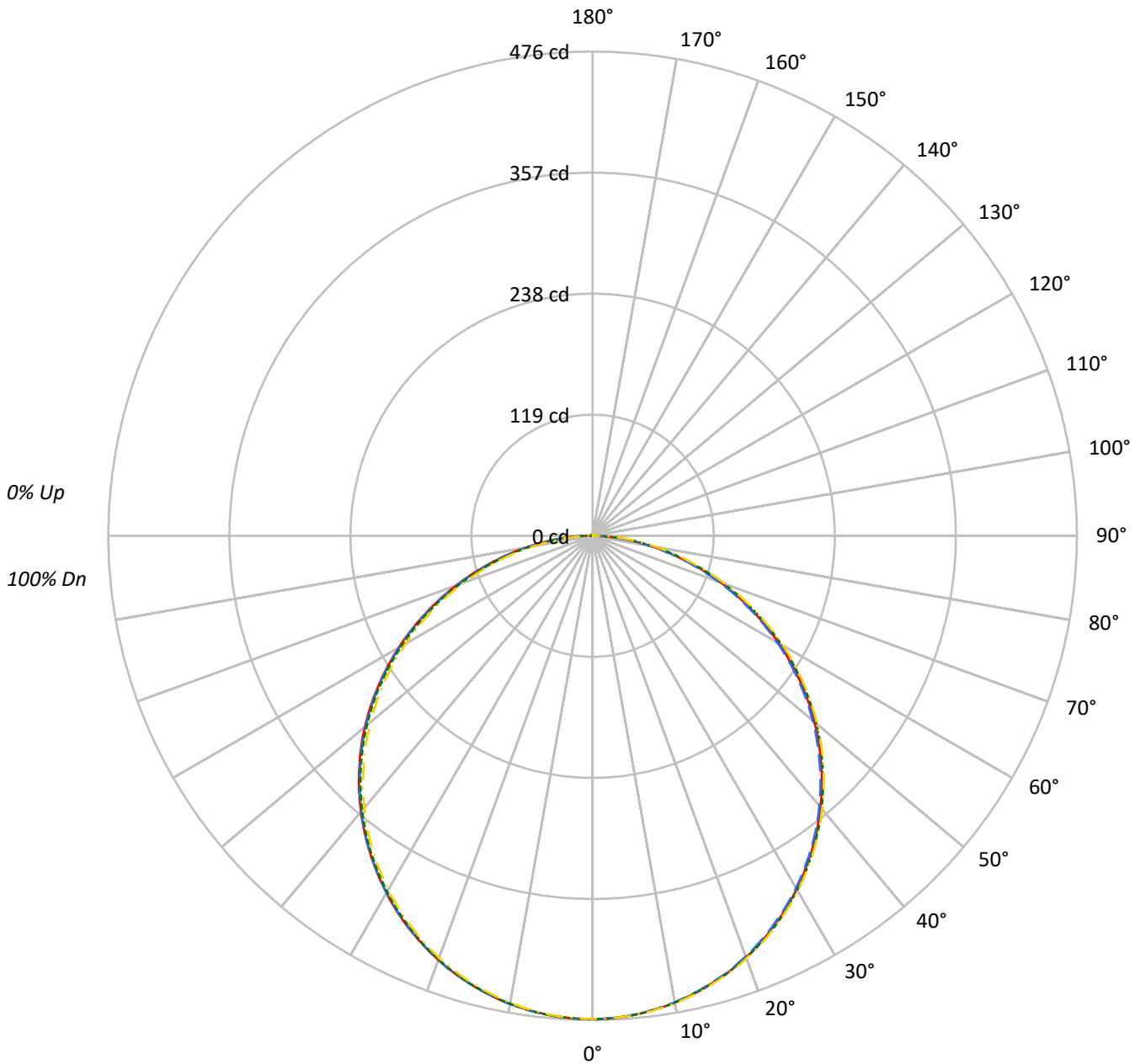
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: SMD6S129SWHE - 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	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	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20451	20451	20451	20451
5°	20434	20430	20452	20452
10°	20373	20369	20426	20422
15°	20295	20290	20388	20375
20°	20211	20224	20334	20298
25°	20091	20129	20257	20195
30°	19941	20001	20155	20085
35°	19768	19847	20042	19963
40°	19582	19672	19913	19807
45°	19345	19467	19765	19613
50°	19050	19211	19579	19385
55°	18669	18894	19299	19089
60°	18195	18479	18962	18678
65°	17584	17910	18511	18145
70°	16806	17183	17951	17523
75°	15787	16269	17268	16619
80°	14381	15075	16538	15546
85°	12153	13832	16253	14277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.2
10°-20°	128.8	9.2
20°-30°	195.5	14.0
30°-40°	236.6	17.0
40°-50°	246.9	17.7
50°-60°	225.2	16.2
60°-70°	174.3	12.5
70°-80°	104.2	7.5
80°-90°	32.0	2.3
90°-100°	0.6	0.0
100°-110°	0.6	0.0
110°-120°	0.8	0.1
120°-130°	0.9	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°	369.2	26.5
0°-40°	605.8	43.5
0°-60°	1077.9	77.3
0°-90°	1388.3	99.6
90°-120°	2.0	0.1
90°-150°	4.4	0.3
90°-180°	6.0	0.4
0°-180°	1393.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	475	475	475	475	475	
5°	473	473	473	473	473	45
15°	455	455	457	457	455	129
25°	423	424	426	425	423	195
35°	376	378	381	380	376	235
45°	318	320	325	322	318	245
55°	249	252	257	254	249	222
65°	173	176	182	178	173	171
75°	95	98	104	100	95	100
85°	25	28	33	29	25	27
90°	1	1	5	2	1	1
95°	1	0	0	1	1	0
105°	1	0	0	1	1	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	2	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°	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0	475.0
0.5°	475.7	475.0	475.1	475.4	475.1	475.5	474.8	475.1	475.2	475.0	475.1
1°	475.1	475.0	475.0	475.3	475.0	475.4	474.9	475.3	475.1	475.3	475.1
1.5°	474.9	474.8	474.9	474.9	474.9	475.3	474.7	475.1	474.9	474.9	475.1
2°	474.8	474.8	474.7	474.6	474.9	475.1	474.7	474.9	474.8	475.1	474.9
2.5°	474.5	474.3	474.4	474.4	474.6	474.9	474.4	474.9	474.8	474.8	474.8
3°	474.2	474.1	474.0	474.4	474.1	474.5	474.3	474.7	474.6	474.7	474.6
3.5°	474.0	473.7	473.8	474.0	473.9	474.2	473.9	474.4	474.3	474.3	474.4
4°	473.6	473.5	473.3	473.6	473.6	473.8	473.7	474.2	474.1	474.2	474.0
4.5°	473.2	472.9	473.0	472.9	473.1	473.5	473.3	473.9	473.6	473.8	473.6
5°	472.8	472.8	472.6	472.6	472.7	473.1	472.9	473.4	473.2	473.5	473.2
5.5°	472.3	472.2	472.0	472.1	472.2	472.6	472.4	473.0	473.0	473.0	472.9
6°	471.7	471.7	471.5	471.7	471.6	472.0	472.0	472.5	472.2	472.6	472.5
6.5°	471.1	470.9	470.9	471.0	471.0	471.6	471.4	471.9	471.9	472.0	472.0
7°	470.6	470.3	470.2	470.6	470.3	471.1	470.9	471.4	471.3	471.7	471.6
7.5°	469.9	469.6	469.6	469.8	469.8	470.4	470.3	470.9	470.8	470.9	470.9
8°	469.2	468.9	468.9	469.1	469.2	469.6	469.5	470.1	470.0	470.3	470.3
8.5°	468.3	468.1	468.1	468.2	468.4	468.9	468.9	469.3	469.5	469.6	469.5
9°	467.6	467.3	467.3	467.5	467.6	468.2	468.2	468.7	468.8	468.8	468.9
9.5°	466.7	466.4	466.4	466.7	466.7	467.5	467.4	467.9	468.2	468.0	468.1
10°	466.0	465.4	465.6	465.8	465.9	466.7	466.6	467.2	467.2	467.5	467.6
10.5°	465.1	464.6	464.8	464.9	465.0	465.6	465.7	466.2	466.6	466.6	466.7
11°	464.2	463.7	463.5	464.0	464.0	464.8	464.8	465.5	465.6	465.9	465.9
11.5°	463.1	462.8	462.8	462.8	463.3	463.7	463.8	464.3	464.8	464.9	464.8
12°	462.2	461.7	461.7	461.9	462.1	462.9	462.9	463.4	463.8	464.0	464.0
12.5°	461.1	460.6	460.5	460.9	461.1	461.8	461.9	462.4	462.9	463.2	462.8
13°	460.1	459.5	459.4	459.7	459.8	460.8	460.8	461.4	461.7	462.0	461.8
13.5°	459.0	458.3	458.4	458.5	458.8	459.4	459.7	460.4	460.9	461.1	460.8
14°	457.9	457.0	457.0	457.2	457.6	458.4	458.6	459.3	459.7	459.9	459.7
14.5°	456.5	455.9	455.9	456.1	456.4	457.2	457.3	458.1	458.7	458.7	458.5
15°	455.3	454.6	454.6	454.8	455.2	456.1	456.1	456.8	457.4	457.6	457.3
15.5°	454.1	453.4	453.3	453.7	454.0	454.7	454.9	455.7	456.3	456.6	456.2
16°	452.9	452.1	451.9	452.2	452.8	453.7	453.6	454.5	454.9	455.1	455.0
16.5°	451.6	450.6	450.8	450.9	451.5	452.1	452.2	453.3	453.8	453.9	453.7
17°	450.4	449.3	449.4	449.6	450.2	451.1	451.0	452.0	452.6	452.6	452.3
17.5°	448.9	447.8	447.9	448.1	448.8	449.6	449.6	450.5	451.1	451.5	451.0
18°	447.4	446.4	446.4	446.7	447.4	448.2	448.3	449.1	449.7	449.7	449.6
18.5°	445.9	445.0	444.8	445.1	446.0	446.6	446.8	447.6	448.5	448.5	448.2
19°	444.2	443.4	443.3	443.7	444.4	445.2	445.4	446.2	446.9	446.9	446.7
19.5°	442.5	441.6	441.8	442.2	442.9	443.6	443.7	444.6	445.3	445.6	445.2
20°	441.1	440.2	440.0	440.5	441.4	442.1	442.1	443.1	443.8	443.9	443.7
20.5°	439.3	438.5	438.5	438.9	439.8	440.3	440.6	441.4	442.1	442.4	442.2
21°	437.7	436.8	436.8	437.1	438.1	438.8	439.0	439.9	440.5	440.6	440.3



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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°	432.3	431.4	431.3	431.9	432.9	433.3	433.7	434.7	435.4	435.5	435.3
23°	430.6	429.4	429.3	429.7	431.2	431.7	431.9	432.8	433.7	433.9	433.5
23.5°	428.7	427.4	427.6	427.8	429.5	429.7	430.1	431.1	432.0	432.0	431.6
24°	426.7	425.5	425.5	425.8	427.6	427.8	428.0	429.1	430.1	430.2	429.8
24.5°	424.7	423.6	423.5	423.9	425.6	425.9	426.2	427.4	428.4	428.2	428.0
25°	422.9	421.4	421.5	422.0	423.7	423.9	424.1	425.2	426.4	426.3	426.0
25.5°	420.6	419.3	419.4	420.0	421.8	422.0	422.2	423.4	424.6	424.5	424.1
26°	418.7	417.3	417.2	417.9	419.7	419.9	420.4	421.3	422.6	422.6	422.0
26.5°	416.6	415.5	415.3	416.0	417.7	417.8	418.3	419.3	420.6	420.4	420.1
27°	414.8	413.4	413.1	413.8	415.5	415.9	416.2	417.3	418.6	418.3	418.2
27.5°	412.5	411.2	411.2	411.8	413.5	413.7	414.1	415.4	416.5	416.4	416.0
28°	410.4	409.1	409.0	409.5	411.1	411.5	411.9	413.2	414.3	414.3	413.9
28.5°	408.0	406.9	406.7	407.2	409.1	409.0	409.9	410.9	412.2	412.2	411.8
29°	405.7	404.4	404.4	405.0	406.7	407.0	407.6	408.8	410.0	409.9	409.9
29.5°	403.4	402.3	402.1	402.8	404.3	404.6	405.3	406.4	407.8	407.7	407.5
30°	401.1	400.0	399.8	400.2	402.3	402.5	403.1	404.2	405.4	405.2	405.3
30.5°	398.7	397.6	397.4	398.1	400.1	400.1	400.8	401.9	403.0	403.1	402.8
31°	396.4	395.1	395.0	395.5	397.8	397.8	398.4	399.7	400.8	400.7	400.6
31.5°	393.9	392.8	392.5	393.3	395.3	395.5	396.0	397.2	398.4	398.4	398.1
32°	391.4	390.1	390.1	390.8	393.0	393.2	393.6	394.9	396.0	395.9	395.7
32.5°	388.9	387.8	387.6	388.5	390.5	390.6	391.3	392.4	393.7	393.6	393.4
33°	386.4	385.1	385.0	385.9	388.0	388.1	388.6	390.1	391.3	391.0	391.1
33.5°	383.8	382.6	382.4	383.4	385.3	385.5	386.2	387.5	388.8	388.6	388.4
34°	381.3	380.3	380.1	380.7	382.9	383.0	383.6	385.2	386.2	386.1	385.9
34.5°	378.8	377.6	377.3	378.3	380.4	380.7	381.2	382.5	383.9	383.6	383.5
35°	376.1	375.0	374.8	375.5	377.6	378.0	378.5	380.1	381.3	381.0	380.9
35.5°	373.5	372.3	372.1	372.9	374.9	375.6	376.0	377.5	378.8	378.6	378.4
36°	370.8	369.6	369.5	370.1	372.5	372.9	373.4	374.9	376.1	376.0	376.0
36.5°	368.1	366.9	366.6	367.4	370.0	370.1	370.8	372.1	373.6	373.5	373.1
37°	365.5	364.2	364.0	364.5	367.0	367.5	368.0	369.4	370.7	370.8	370.5
37.5°	362.7	361.4	361.1	361.9	364.3	364.8	365.3	366.7	368.2	368.1	367.8
38°	359.9	358.6	358.3	359.0	361.6	361.9	362.4	364.1	365.4	365.2	365.1
38.5°	356.9	355.8	355.3	356.1	358.7	359.1	359.7	361.2	362.7	362.4	362.2
39°	354.1	352.8	352.5	353.2	356.0	356.3	356.8	358.4	359.9	359.7	359.5
39.5°	351.2	350.0	349.5	350.5	353.4	353.5	353.9	355.6	357.2	356.9	356.7
40°	348.4	347.0	346.6	347.5	350.0	350.7	351.0	352.7	354.3	353.8	353.9
40.5°	345.3	344.0	343.7	344.6	347.1	347.5	348.1	349.8	351.3	350.7	350.8
41°	342.6	341.1	340.7	341.6	344.3	344.8	345.1	346.9	348.5	348.1	347.9
41.5°	339.6	338.1	337.5	338.6	341.3	341.9	342.3	343.8	345.8	345.3	344.8
42°	336.6	334.8	334.6	335.5	338.2	339.0	339.2	340.8	342.7	342.4	342.0
42.5°	333.5	331.9	331.5	332.6	335.4	335.7	336.2	337.7	339.9	339.3	338.9
43°	330.5	328.7	328.4	329.3	332.2	332.8	333.1	334.8	336.9	336.2	336.0
43.5°	327.1	325.5	325.2	326.2	329.1	329.5	330.1	331.7	333.8	333.3	332.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	317.7	315.9	315.5	316.5	319.7	320.1	320.7	322.4	324.6	323.9	323.5
45.5°	314.5	312.9	312.3	313.3	316.5	316.8	317.6	319.2	321.5	320.8	320.3
46°	311.1	309.4	309.0	310.0	313.3	313.7	314.3	315.9	318.4	317.5	317.2
46.5°	308.1	306.4	305.8	307.1	310.1	310.6	311.3	312.7	315.1	314.5	313.8
47°	304.8	302.9	302.6	303.6	306.9	307.4	308.1	309.6	312.0	311.2	310.7
47.5°	301.4	299.8	299.2	300.4	303.6	304.1	304.9	306.5	308.7	308.0	307.5
48°	298.1	296.4	295.9	297.0	300.4	300.8	301.3	303.2	305.7	304.8	304.4
48.5°	294.6	293.0	292.8	293.6	297.1	297.7	298.2	299.8	302.3	301.5	301.0
49°	291.3	289.5	289.3	290.3	293.5	294.2	294.6	296.6	299.0	298.1	297.8
49.5°	287.8	286.1	285.8	286.7	290.3	290.6	291.4	293.2	295.6	294.8	294.4
50°	284.4	282.7	282.3	283.3	286.8	287.3	287.9	289.9	292.3	291.6	291.0
50.5°	280.9	279.1	278.7	279.7	283.4	283.7	284.6	286.6	288.8	288.2	287.6
51°	277.4	275.7	275.2	276.2	280.0	280.4	281.0	283.2	285.4	284.7	284.2
51.5°	274.0	272.3	271.8	272.8	276.5	277.0	277.8	279.6	282.0	281.3	280.7
52°	270.6	268.8	268.4	269.3	273.2	273.5	274.2	276.3	278.4	277.7	277.2
52.5°	267.0	265.2	264.9	265.8	269.5	270.0	270.8	272.9	274.8	274.2	273.7
53°	263.3	261.6	261.2	262.2	266.0	266.5	267.3	269.4	271.4	270.8	270.4
53.5°	259.7	257.9	257.6	258.4	262.4	263.1	263.8	265.9	267.9	267.4	266.8
54°	256.0	254.4	253.9	254.8	258.7	259.4	260.3	262.2	264.3	263.7	263.2
54.5°	252.4	250.8	250.2	251.2	255.1	255.8	256.7	258.7	260.8	260.1	259.8
55°	248.7	247.1	246.7	247.5	251.7	252.1	253.1	255.0	257.1	256.5	256.1
55.5°	244.9	243.3	242.9	243.8	247.8	248.5	249.5	251.3	253.5	252.8	252.6
56°	241.2	239.7	239.3	240.1	244.2	244.9	245.9	247.7	249.8	249.3	248.9
56.5°	237.6	236.3	235.7	236.6	240.5	241.2	242.1	244.2	246.2	245.7	245.3
57°	233.9	232.4	232.0	232.9	237.0	237.6	238.6	240.4	242.3	242.0	241.5
57.5°	230.1	228.7	228.3	229.1	233.3	234.0	234.8	236.9	238.8	238.3	238.1
58°	226.4	225.0	224.5	225.2	229.7	230.2	231.3	233.1	235.1	234.7	234.3
58.5°	222.6	221.3	220.6	221.5	225.9	226.5	227.5	229.5	231.6	231.1	230.7
59°	218.9	217.5	217.0	217.7	222.1	222.6	223.8	225.6	227.7	227.4	226.8
59.5°	215.0	213.6	213.1	213.9	218.3	218.8	219.9	221.9	224.0	223.5	223.2
60°	211.3	209.8	209.2	210.1	214.6	215.1	216.0	218.0	220.2	219.8	219.3
60.5°	207.4	206.1	205.4	206.4	210.7	211.1	212.3	214.2	216.5	216.0	215.6
61°	203.7	202.2	201.6	202.5	206.9	207.4	208.4	210.3	212.7	212.2	211.7
61.5°	199.8	198.3	197.8	198.7	203.0	203.6	204.7	206.4	209.0	208.4	207.8
62°	196.0	194.5	194.0	194.8	199.4	199.9	200.8	202.6	205.2	204.7	204.0
62.5°	192.0	190.6	190.0	190.8	195.4	195.9	196.9	198.7	201.3	200.7	200.3
63°	188.2	186.6	186.2	187.1	191.5	192.0	193.1	194.8	197.3	196.8	196.4
63.5°	184.2	182.7	182.3	183.2	187.7	188.1	189.3	190.9	193.7	192.9	192.5
64°	180.5	178.8	178.5	179.3	183.7	184.4	185.3	187.0	189.6	189.1	188.6
64.5°	176.4	174.9	174.5	175.3	179.8	180.3	181.5	183.1	185.8	185.2	184.7
65°	172.6	171.0	170.6	171.6	175.8	176.5	177.6	179.2	181.7	181.3	180.7
65.5°	168.6	167.2	166.7	167.7	171.9	172.6	173.7	175.2	178.0	177.4	176.8
66°	164.8	163.4	162.9	163.9	167.9	168.6	169.7	171.3	174.0	173.3	172.9



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	153.1	151.5	151.2	152.1	156.4	157.0	158.1	160.0	162.4	161.9	161.3
68°	149.2	147.5	147.2	148.2	152.3	153.1	154.3	156.2	158.3	157.8	157.3
68.5°	145.3	143.6	143.3	144.2	148.5	149.1	150.3	152.4	154.4	154.0	153.5
69°	141.4	139.7	139.3	140.4	144.5	145.2	146.4	148.5	150.5	150.0	149.4
69.5°	137.3	135.8	135.5	136.3	140.5	141.2	142.6	144.5	146.6	146.1	145.5
70°	133.5	131.8	131.6	132.4	136.5	137.4	138.6	140.6	142.6	142.1	141.6
70.5°	129.7	128.0	127.6	128.6	132.7	133.4	134.8	136.9	138.8	138.2	137.7
71°	125.8	124.1	123.7	124.7	128.9	129.7	130.9	133.0	134.8	134.3	133.9
71.5°	121.9	120.2	119.8	120.8	124.9	125.6	127.0	129.1	130.9	130.3	129.9
72°	118.0	116.3	116.0	116.9	121.1	121.8	123.1	125.3	127.2	126.6	126.0
72.5°	114.0	112.4	112.0	113.2	117.1	118.0	119.3	121.3	123.3	122.8	122.3
73°	110.1	108.5	108.2	109.2	113.3	114.0	115.4	117.5	119.3	118.9	118.4
73.5°	106.3	104.7	104.3	105.3	109.3	110.1	111.6	113.4	115.4	115.0	114.5
74°	102.4	100.8	100.5	101.4	105.5	106.4	107.8	109.7	111.6	111.2	110.6
74.5°	98.6	97.1	96.7	97.7	101.7	102.5	103.8	105.8	107.7	107.3	106.9
75°	94.9	93.4	93.1	94.0	97.8	98.7	100.1	101.9	103.8	103.5	103.0
75.5°	91.0	89.7	89.3	90.3	94.2	94.9	96.2	98.1	99.9	99.6	99.2
76°	87.3	86.0	85.7	86.5	90.4	91.4	92.6	94.4	96.2	95.8	95.4
76.5°	83.4	82.2	82.0	82.7	86.6	87.5	88.7	90.6	92.5	92.3	91.7
77°	79.7	78.4	78.2	78.9	82.9	83.7	85.1	86.9	88.9	88.4	87.9
77.5°	76.0	74.8	74.5	75.3	79.1	80.1	81.4	83.2	85.0	84.8	84.1
78°	72.3	71.2	71.0	71.6	75.5	76.5	77.7	79.5	81.2	81.0	80.5
78.5°	68.7	67.6	67.4	68.1	71.6	72.7	74.0	75.8	77.7	77.3	76.7
79°	65.1	64.1	63.8	64.6	68.1	69.0	70.3	72.1	73.8	73.7	73.1
79.5°	61.5	60.5	60.3	61.0	64.5	65.4	66.7	68.4	70.2	70.0	69.4
80°	58.0	56.9	57.0	57.5	60.8	61.8	63.1	64.9	66.7	66.3	65.9
80.5°	54.6	53.6	53.5	54.2	57.5	58.5	59.7	61.4	63.1	62.8	62.4
81°	51.0	50.2	50.0	50.5	54.1	55.0	56.3	58.0	59.4	59.3	58.9
81.5°	47.6	46.8	46.6	47.2	50.5	51.5	53.0	54.5	56.0	56.0	55.5
82°	44.1	43.4	43.2	43.7	47.2	48.3	49.4	51.0	52.9	52.4	52.0
82.5°	40.7	40.0	40.0	40.5	43.8	44.9	46.1	47.8	49.2	49.1	48.6
83°	37.2	36.8	36.7	37.2	40.6	41.7	42.8	44.4	45.9	45.8	45.3
83.5°	34.2	33.5	33.3	33.9	37.3	38.3	39.5	41.1	42.6	42.4	42.0
84°	30.8	30.3	30.1	30.7	34.2	35.1	36.3	37.7	39.4	39.2	38.7
84.5°	27.8	27.1	27.0	27.6	31.1	32.0	33.3	34.7	36.2	36.0	35.7
85°	24.6	24.1	24.1	24.5	28.0	29.0	30.2	31.5	32.9	32.9	32.5
85.5°	21.7	21.2	21.1	21.6	24.9	25.9	27.1	28.5	29.8	29.8	29.4
86°	18.7	18.2	18.1	18.6	22.1	23.0	24.2	25.4	26.7	26.7	26.3
86.5°	15.8	15.2	15.1	15.7	19.1	20.1	21.2	22.7	23.8	23.7	23.4
87°	12.8	12.2	12.2	12.8	16.2	17.2	18.3	19.6	20.9	20.9	20.4
87.5°	10.1	9.6	9.4	10.1	13.4	14.3	15.5	16.7	17.9	18.0	17.6
88°	7.6	7.0	6.7	7.4	10.6	11.6	12.8	13.9	15.1	15.2	14.8
88.5°	5.2	4.4	4.2	5.1	8.1	8.9	9.9	11.2	12.2	12.3	11.9



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

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	0.7	0.7	1.6	2.4	3.6	4.6	4.9	4.2
90.5°	0.6	0.7	0.6	0.6	0.4	0.4	0.9	1.6	2.2	2.3	1.9
91°	0.6	0.6	0.6	0.6	0.4	0.4	0.3	0.4	0.3	0.5	0.3
91.5°	0.6	0.6	0.6	0.6	0.4	0.5	0.3	0.4	0.3	0.5	0.3
92°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.3	0.5	0.4
92.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.4	0.3
93°	0.6	0.6	0.6	0.6	0.4	0.4	0.5	0.4	0.2	0.4	0.3
93.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.3	0.4	0.3
94.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.3	0.4	0.3
95°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.3
95.5°	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.4
96°	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.5	0.4	0.4
96.5°	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.5	0.4	0.4
97°	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.4	0.5	0.5
97.5°	0.6	0.6	0.6	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.5
98°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
98.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.5	0.6	0.4
99°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.2	0.6	0.4
99.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.1	0.5	0.4
100°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.6	0.1	0.5	0.4
100.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.6	0.1	0.5	0.4
101°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.1	0.5	0.4
101.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.5	0.1	0.5	0.4
102°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.5	0.1	0.5	0.4
102.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.6	0.1	0.5	0.4
103°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.5	0.1	0.5	0.4
103.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.5	0.1	0.5	0.5
104°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.6	0.1	0.6	0.4
104.5°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.6	0.1	0.6	0.6
105°	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.6	0.1	0.6	0.5
105.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.1	0.6	0.6
106°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.1	0.6	0.6
106.5°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.1	0.6	0.6
107°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.5	0.6	0.6
107.5°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.6	0.6	0.6
108°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.7	0.6	0.6	0.5
108.5°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.6	0.6	0.6	0.5
109°	0.6	0.6	0.6	0.6	0.6	0.8	0.4	0.7	0.6	0.6	0.5
109.5°	0.6	0.6	0.6	0.6	0.7	0.7	0.4	0.7	0.6	0.6	0.5
110°	0.6	0.6	0.6	0.6	0.6	0.7	0.4	0.7	0.6	0.7	0.5
110.5°	0.6	0.6	0.6	0.6	0.6	0.7	0.5	0.7	0.6	0.7	0.6
111°	0.6	0.8	0.6	0.6	0.6	0.7	0.4	0.7	0.6	0.7	0.6



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.3	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.5	1.5	1.4
158°	1.3	1.2	1.2	1.3	1.5	1.5	1.5	1.4	1.5	1.5	1.4
158.5°	1.3	1.2	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.4	1.5
159°	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5
159.5°	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5
160°	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5
160.5°	1.3	1.2	1.2	1.6	1.5	1.5	1.5	1.6	1.5	1.4	1.5
161°	1.3	1.2	1.2	1.7	1.6	1.5	1.5	1.6	1.6	1.4	1.5
161.5°	1.3	1.2	1.2	1.6	1.5	1.5	1.5	1.6	1.7	1.6	1.5
162°	1.3	1.2	1.2	1.6	1.7	1.5	1.6	1.7	1.5	1.7	1.5
162.5°	1.3	1.2	1.2	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.5
163°	1.3	1.2	1.2	1.8	1.6	1.5	1.7	1.7	1.7	1.6	1.5
163.5°	1.3	1.2	1.2	1.7	1.6	1.5	1.7	1.7	1.7	1.6	1.5
164°	1.3	1.2	1.2	1.7	1.6	1.5	1.7	1.7	1.7	1.6	1.5
164.5°	1.3	1.2	1.3	1.7	1.6	1.5	1.7	1.7	1.7	1.7	1.5
165°	1.3	1.2	1.3	1.7	1.6	1.5	1.7	1.7	1.7	1.7	1.5
165.5°	1.3	1.2	1.3	1.7	1.6	1.5	1.8	1.7	1.7	1.7	1.5
166°	1.3	1.2	1.3	1.7	1.6	1.5	1.8	1.7	1.7	1.7	1.5
166.5°	1.3	1.2	1.3	1.7	1.6	1.4	1.9	1.8	1.7	1.7	1.5
167°	1.3	1.2	1.4	1.7	1.6	1.4	1.7	1.7	1.6	1.7	1.5
167.5°	1.3	1.2	1.5	1.7	1.7	1.4	1.7	1.7	1.6	1.7	1.5
168°	1.3	1.2	1.4	1.8	1.7	1.4	1.7	1.7	1.6	1.7	1.5
168.5°	1.3	1.4	1.4	1.8	1.7	1.4	1.8	1.7	1.6	1.7	1.5
169°	1.3	1.4	1.4	1.8	1.7	1.4	1.7	1.7	1.6	1.7	1.5
169.5°	1.3	1.3	1.4	1.8	1.7	1.4	1.5	1.7	1.6	1.7	1.4
170°	1.3	1.3	1.4	1.8	1.7	1.4	1.5	1.7	1.6	1.8	1.4
170.5°	1.3	1.3	1.4	1.8	1.7	1.4	1.5	1.7	1.6	1.8	1.4
171°	1.3	1.4	1.4	1.8	1.7	1.4	1.5	1.7	1.6	1.7	1.4
171.5°	1.5	1.3	1.4	1.8	1.7	1.4	1.5	1.8	1.6	1.7	1.4
172°	1.5	1.5	1.4	1.8	1.7	1.4	1.4	1.8	1.6	1.7	1.4
172.5°	1.7	1.5	1.4	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
173°	1.7	1.4	1.4	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
173.5°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
174°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
174.5°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
175°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
175.5°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
176°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
176.5°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
177°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.8	1.4
177.5°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.8	1.4
178°	1.7	1.4	1.5	1.8	1.7	1.4	1.3	1.7	1.6	1.7	1.4
178.5°	1.7	1.4	1.5	1.9	1.7	1.4	1.3	1.7	1.6	1.7	1.4



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	475.0	475.0	475.0	475.0	475.0	475.0
0.5°	475.4	475.4	475.4	474.8	475.3	475.7
1°	475.3	475.3	475.2	475.0	475.3	475.1
1.5°	475.2	475.1	475.4	474.8	475.1	474.9
2°	475.0	474.9	475.1	474.8	474.9	474.8
2.5°	474.7	474.7	475.0	474.4	474.7	474.5
3°	474.7	474.4	474.6	474.3	474.2	474.2
3.5°	474.4	474.2	474.3	473.9	474.0	474.0
4°	474.1	474.0	474.0	473.6	473.7	473.6
4.5°	473.8	473.7	473.8	473.2	473.3	473.2
5°	473.6	473.2	473.4	472.8	473.0	472.8
5.5°	473.0	472.8	472.9	472.3	472.4	472.3
6°	472.6	472.5	472.4	471.7	471.9	471.7
6.5°	472.2	471.9	471.9	471.2	471.3	471.1
7°	471.4	471.4	471.3	470.5	470.7	470.6
7.5°	471.0	470.8	470.6	470.0	470.1	469.9
8°	470.4	470.3	469.9	469.3	469.4	469.2
8.5°	469.7	469.5	469.4	468.8	468.8	468.3
9°	469.0	468.8	468.6	467.8	468.0	467.6
9.5°	468.3	468.0	467.8	467.1	466.8	466.7
10°	467.4	467.1	466.9	466.2	466.2	466.0
10.5°	466.6	466.4	466.1	465.3	465.5	465.1
11°	465.6	465.5	465.2	464.4	464.5	464.2
11.5°	464.9	464.5	464.3	463.4	463.4	463.1
12°	463.7	463.4	463.1	462.4	462.6	462.2
12.5°	462.7	462.6	462.0	461.3	461.5	461.1
13°	461.8	461.4	461.0	460.3	460.2	460.1
13.5°	460.7	460.5	460.1	459.2	459.0	459.0
14°	459.5	459.2	458.8	458.0	457.9	457.9
14.5°	458.5	458.3	457.6	456.9	456.8	456.5
15°	457.3	457.1	456.4	455.8	455.6	455.3
15.5°	456.0	455.9	455.0	454.4	454.4	454.1
16°	454.7	454.7	453.9	453.3	452.9	452.9
16.5°	453.5	453.4	452.6	451.7	451.5	451.6
17°	452.2	451.9	451.3	450.4	450.2	450.4
17.5°	450.8	450.7	449.9	449.0	449.1	448.9
18°	449.5	449.2	448.4	447.7	447.5	447.4
18.5°	447.9	447.6	446.7	446.1	445.9	445.9
19°	446.7	446.1	445.3	444.6	444.3	444.2
19.5°	445.0	444.7	443.9	443.1	442.9	442.5
20°	443.6	443.0	442.3	441.6	441.2	441.1
20.5°	441.9	441.5	440.7	439.8	439.5	439.3
21°	440.3	439.9	438.9	438.1	437.7	437.7



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	435.2	434.7	433.7	432.6	432.6	432.3
23°	433.5	432.8	432.0	430.9	430.7	430.6
23.5°	431.6	430.9	430.2	429.1	428.7	428.7
24°	429.8	428.9	428.3	427.2	426.7	426.7
24.5°	427.9	427.1	426.4	425.1	424.8	424.7
25°	426.1	425.1	424.4	423.2	422.8	422.9
25.5°	424.1	423.1	422.5	421.2	420.7	420.6
26°	422.3	421.1	420.4	419.2	418.6	418.7
26.5°	420.2	419.2	418.3	417.0	416.5	416.6
27°	418.2	417.1	416.2	415.0	414.5	414.8
27.5°	416.2	415.0	414.2	413.0	412.4	412.5
28°	414.0	412.9	412.1	410.8	410.3	410.4
28.5°	411.9	410.8	409.6	408.4	408.0	408.0
29°	409.7	408.5	407.4	406.4	405.7	405.7
29.5°	407.4	406.4	405.3	404.1	403.6	403.4
30°	405.2	404.0	403.0	401.8	401.1	401.1
30.5°	402.8	401.8	400.7	399.4	398.9	398.7
31°	400.6	399.4	398.5	397.1	396.5	396.4
31.5°	398.2	397.1	396.0	394.6	394.2	393.9
32°	395.8	394.7	393.7	392.1	391.5	391.4
32.5°	393.2	392.3	391.0	389.6	389.2	388.9
33°	390.9	389.8	388.8	387.2	386.5	386.4
33.5°	388.2	387.5	386.1	384.7	384.1	383.8
34°	386.0	384.8	383.5	382.2	381.6	381.3
34.5°	383.3	382.4	381.1	379.6	379.0	378.8
35°	380.9	379.8	378.6	377.0	376.3	376.1
35.5°	378.4	377.4	375.9	374.4	373.9	373.5
36°	375.8	374.6	373.3	371.8	370.9	370.8
36.5°	373.0	372.0	370.7	369.0	368.3	368.1
37°	370.5	369.4	367.9	366.3	365.5	365.5
37.5°	367.7	366.5	365.3	363.4	362.7	362.7
38°	364.9	363.7	362.3	360.5	359.7	359.9
38.5°	362.1	360.8	359.5	357.7	357.1	356.9
39°	359.3	358.2	356.8	354.9	354.1	354.1
39.5°	356.5	355.4	353.9	351.9	351.3	351.2
40°	353.7	352.4	350.8	348.9	348.3	348.4
40.5°	350.9	349.5	347.9	346.1	345.6	345.3
41°	347.9	346.4	344.9	343.2	342.4	342.6
41.5°	345.0	343.6	342.0	340.2	339.4	339.6
42°	342.1	340.5	339.0	337.0	336.3	336.6
42.5°	339.1	337.6	336.0	334.0	333.2	333.5
43°	336.1	334.4	332.8	330.9	330.1	330.5
43.5°	333.1	331.5	329.8	327.6	327.0	327.1



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	323.6	322.1	320.1	318.3	317.4	317.7
45.5°	320.3	319.0	317.0	315.0	314.3	314.5
46°	317.1	315.7	313.7	311.8	311.0	311.1
46.5°	314.0	312.6	310.4	308.7	307.8	308.1
47°	310.8	309.5	307.5	305.3	304.6	304.8
47.5°	307.6	306.3	304.0	302.1	301.3	301.4
48°	304.3	302.9	300.8	298.7	297.9	298.1
48.5°	301.0	299.7	297.5	295.3	294.6	294.6
49°	297.7	296.3	294.2	291.8	291.1	291.3
49.5°	294.3	292.8	290.6	288.4	287.7	287.8
50°	291.0	289.4	287.1	285.1	284.3	284.4
50.5°	287.7	286.1	283.6	281.5	280.7	280.9
51°	284.1	282.5	280.2	277.9	277.1	277.4
51.5°	280.8	279.0	276.7	274.5	273.8	274.0
52°	277.4	275.6	273.2	271.0	270.3	270.6
52.5°	273.9	272.1	269.9	267.6	266.7	267.0
53°	270.6	268.8	266.2	263.9	263.1	263.3
53.5°	267.0	265.1	262.7	260.5	259.4	259.7
54°	263.4	261.6	259.0	256.9	255.9	256.0
54.5°	259.9	258.0	255.4	253.3	252.2	252.4
55°	256.3	254.3	251.7	249.6	248.6	248.7
55.5°	252.6	250.5	247.9	246.1	244.9	244.9
56°	248.9	247.0	244.2	242.3	241.2	241.2
56.5°	245.2	243.3	240.7	238.5	237.5	237.6
57°	241.6	239.5	237.0	235.0	233.8	233.9
57.5°	238.0	235.8	233.4	231.3	230.0	230.1
58°	234.3	232.1	229.7	227.4	226.4	226.4
58.5°	230.5	228.5	226.1	223.7	222.5	222.6
59°	226.8	224.7	222.2	219.8	218.7	218.9
59.5°	222.9	220.8	218.4	216.0	214.9	215.0
60°	219.2	216.9	214.6	212.2	211.1	211.3
60.5°	215.2	213.0	210.8	208.4	207.3	207.4
61°	211.3	209.1	206.9	204.5	203.4	203.7
61.5°	207.4	205.3	203.2	200.7	199.7	199.8
62°	203.5	201.6	199.3	196.9	195.8	196.0
62.5°	199.7	197.6	195.4	193.1	191.9	192.0
63°	195.7	193.7	191.5	189.2	187.8	188.2
63.5°	191.9	189.8	187.7	185.3	184.0	184.2
64°	188.0	185.9	183.8	181.3	180.3	180.5
64.5°	184.0	181.9	179.9	177.5	176.3	176.4
65°	180.1	178.1	176.0	173.6	172.4	172.6
65.5°	176.2	174.1	171.9	169.8	168.6	168.6
66°	172.3	170.2	168.0	165.9	164.8	164.8



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	161.0	158.7	156.3	154.1	153.1	153.1
68°	157.0	154.8	152.3	150.2	149.0	149.2
68.5°	153.2	150.8	148.4	146.3	145.3	145.3
69°	149.3	147.0	144.5	142.3	141.3	141.4
69.5°	145.3	143.0	140.5	138.4	137.3	137.3
70°	141.4	139.2	136.5	134.4	133.4	133.5
70.5°	137.6	135.2	132.6	130.7	129.5	129.7
71°	133.7	131.3	128.8	126.7	125.7	125.8
71.5°	129.8	127.5	125.0	122.8	121.7	121.9
72°	126.0	123.4	121.0	118.9	117.7	118.0
72.5°	122.0	119.5	117.1	114.9	113.9	114.0
73°	118.0	115.6	113.2	111.1	110.0	110.1
73.5°	114.2	111.8	109.3	107.3	106.2	106.3
74°	110.3	107.8	105.4	103.4	102.2	102.4
74.5°	106.4	103.9	101.5	99.6	98.6	98.6
75°	102.4	99.9	97.8	95.8	94.8	94.9
75.5°	98.6	96.2	94.1	92.2	91.0	91.0
76°	94.8	92.4	90.3	88.2	87.1	87.3
76.5°	91.1	88.6	86.3	84.5	83.4	83.4
77°	87.3	84.9	82.7	80.9	79.7	79.7
77.5°	83.7	81.1	78.9	77.2	76.2	76.0
78°	79.9	77.3	75.3	73.6	72.5	72.3
78.5°	76.2	73.7	71.7	70.0	68.9	68.7
79°	72.5	70.0	68.0	66.4	65.3	65.1
79.5°	68.9	66.4	64.4	62.8	61.7	61.5
80°	65.2	62.7	60.9	59.3	58.1	58.0
80.5°	61.6	59.3	57.5	56.0	54.9	54.6
81°	58.3	55.8	54.0	52.5	51.3	51.0
81.5°	54.7	52.2	50.5	49.1	48.0	47.6
82°	51.3	48.8	47.1	45.7	44.5	44.1
82.5°	47.9	45.5	43.8	42.2	41.0	40.7
83°	44.6	42.0	40.5	38.9	37.8	37.2
83.5°	41.3	38.7	37.1	35.6	34.5	34.2
84°	38.0	35.4	33.8	32.3	31.4	30.8
84.5°	34.9	32.2	30.6	29.4	28.1	27.8
85°	31.8	28.9	27.6	26.1	24.9	24.6
85.5°	28.6	25.8	24.4	23.2	22.1	21.7
86°	25.6	22.8	21.5	20.1	19.0	18.7
86.5°	22.8	19.9	18.6	17.2	16.0	15.8
87°	19.8	16.9	15.6	14.2	13.4	12.8
87.5°	16.9	14.2	12.7	11.4	10.5	10.1
88°	14.1	11.2	10.0	8.8	8.0	7.6
88.5°	11.4	8.7	7.4	6.2	5.3	5.2



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	4.1	1.5	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	0.6	0.5	0.6
91.5°	0.4	0.6	0.6	0.6	0.5	0.6
92°	0.5	0.6	0.6	0.6	0.4	0.6
92.5°	0.4	0.6	0.6	0.6	0.4	0.6
93°	0.4	0.6	0.6	0.6	0.4	0.6
93.5°	0.4	0.6	0.6	0.6	0.5	0.6
94°	0.4	0.6	0.6	0.6	0.5	0.6
94.5°	0.4	0.6	0.6	0.6	0.5	0.6
95°	0.4	0.6	0.6	0.6	0.5	0.6
95.5°	0.4	0.6	0.6	0.6	0.5	0.6
96°	0.4	0.6	0.6	0.6	0.5	0.6
96.5°	0.4	0.6	0.6	0.6	0.5	0.6
97°	0.4	0.6	0.6	0.6	0.4	0.6
97.5°	0.4	0.6	0.6	0.6	0.4	0.6
98°	0.4	0.6	0.6	0.6	0.4	0.6
98.5°	0.4	0.6	0.6	0.6	0.4	0.6
99°	0.4	0.6	0.6	0.6	0.4	0.6
99.5°	0.4	0.6	0.6	0.6	0.4	0.6
100°	0.4	0.6	0.6	0.6	0.4	0.6
100.5°	0.5	0.6	0.6	0.6	0.4	0.6
101°	0.4	0.6	0.6	0.6	0.5	0.6
101.5°	0.6	0.6	0.6	0.6	0.5	0.6
102°	0.6	0.6	0.6	0.6	0.5	0.6
102.5°	0.6	0.6	0.6	0.6	0.5	0.6
103°	0.6	0.6	0.6	0.6	0.5	0.6
103.5°	0.6	0.6	0.6	0.6	0.5	0.6
104°	0.6	0.6	0.6	0.6	0.5	0.6
104.5°	0.6	0.6	0.6	0.6	0.5	0.6
105°	0.6	0.6	0.6	0.6	0.5	0.6
105.5°	0.6	0.6	0.6	0.6	0.6	0.6
106°	0.7	0.6	0.6	0.6	0.5	0.6
106.5°	0.7	0.6	0.6	0.6	0.5	0.6
107°	0.6	0.6	0.6	0.6	0.6	0.6
107.5°	0.6	0.6	0.6	0.6	0.6	0.6
108°	0.6	0.6	0.6	0.6	0.7	0.6
108.5°	0.7	0.6	0.6	0.6	0.7	0.6
109°	0.7	0.6	0.6	0.6	0.7	0.6
109.5°	0.7	0.6	0.6	0.6	0.8	0.6
110°	0.8	0.6	0.6	0.6	0.8	0.6
110.5°	0.8	0.6	0.6	0.6	0.9	0.6
111°	0.7	0.6	0.6	0.6	0.8	0.6



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.5	1.3	1.2	1.2	1.2	1.3
158°	1.5	1.3	1.2	1.2	1.2	1.3
158.5°	1.5	1.3	1.2	1.2	1.2	1.3
159°	1.6	1.3	1.2	1.2	1.2	1.3
159.5°	1.6	1.3	1.2	1.2	1.2	1.3
160°	1.5	1.3	1.2	1.2	1.2	1.3
160.5°	1.5	1.3	1.2	1.2	1.2	1.3
161°	1.5	1.3	1.2	1.2	1.2	1.3
161.5°	1.5	1.3	1.2	1.2	1.2	1.3
162°	1.5	1.3	1.2	1.2	1.2	1.3
162.5°	1.5	1.3	1.2	1.3	1.2	1.3
163°	1.5	1.3	1.2	1.3	1.2	1.3
163.5°	1.5	1.3	1.2	1.3	1.2	1.3
164°	1.5	1.3	1.2	1.2	1.2	1.3
164.5°	1.5	1.3	1.2	1.2	1.2	1.3
165°	1.6	1.3	1.2	1.2	1.2	1.3
165.5°	1.6	1.3	1.2	1.2	1.2	1.3
166°	1.6	1.3	1.2	1.2	1.2	1.3
166.5°	1.6	1.3	1.2	1.3	1.2	1.3
167°	1.6	1.3	1.2	1.3	1.7	1.3
167.5°	1.6	1.3	1.2	1.3	1.6	1.3
168°	1.7	1.3	1.2	1.5	1.6	1.3
168.5°	1.7	1.3	1.3	1.5	1.6	1.3
169°	1.7	1.3	1.3	1.5	1.6	1.3
169.5°	1.7	1.3	1.3	1.7	1.6	1.3
170°	1.7	1.4	1.3	1.7	1.6	1.3
170.5°	1.7	1.4	1.3	1.7	1.6	1.3
171°	1.7	1.4	1.3	1.7	1.6	1.3
171.5°	1.7	1.4	1.3	1.7	1.6	1.5
172°	1.8	1.4	1.3	1.7	1.6	1.5
172.5°	1.7	1.4	1.3	1.7	1.6	1.7
173°	1.7	1.4	1.3	1.7	1.6	1.7
173.5°	1.7	1.4	1.3	1.7	1.6	1.7
174°	1.7	1.4	1.3	1.7	1.6	1.7
174.5°	1.7	1.4	1.3	1.7	1.6	1.7
175°	1.7	1.4	1.3	1.7	1.6	1.7
175.5°	1.7	1.4	1.3	1.7	1.6	1.7
176°	1.7	1.4	1.3	1.7	1.6	1.7
176.5°	1.7	1.4	1.3	1.7	1.6	1.7
177°	1.7	1.4	1.3	1.7	1.6	1.7
177.5°	1.7	1.4	1.3	1.7	1.6	1.7
178°	1.7	1.4	1.3	1.7	1.6	1.7
178.5°	1.5	1.4	1.3	1.7	1.6	1.7



TEST NUMBER: P417446

CATALOG NUMBER: SMD6S129SWHE - 5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.7	1.7	1.7	1.7	1.7	1.7



Report Generated By E9808895 / USPTCWHP6082093





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







21.5°	436.0	434.7	435.0	435.6	436.3	436.9	437.3	438.2	438.9	439.0	438.7
22°	434.2	433.2	433.2	433.6	434.7	435.3	435.4	436.4	437.2	437.4	437.2



44°	324.1	322.3	321.9	322.9	326.1	326.4	327.0	328.6	330.7	330.1	329.7
44.5°	320.9	319.3	318.7	319.9	322.9	323.2	324.0	325.5	327.6	327.1	326.6



66.5°	160.9	159.4	159.0	159.9	164.1	164.7	165.9	167.6	170.0	169.5	168.9
67°	157.0	155.4	155.1	156.1	160.1	160.9	162.0	164.0	166.1	165.7	165.2



89°	2.2	1.8	1.9	2.6	5.6	6.4	7.2	8.5	9.7	9.7	9.2
89.5°	1.0	0.8	0.8	1.1	3.2	4.1	4.7	6.0	7.1	7.1	6.6



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



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



156.5°	1.3	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.3	1.4
157°	1.3	1.2	1.2	1.3	1.3	1.5	1.4	1.4	1.5	1.3	1.4



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





21.5°	438.6	438.2	437.2	436.4	436.3	436.0
22°	437.0	436.5	435.4	434.6	434.2	434.2



44°	329.8	328.4	326.6	324.6	323.9	324.1
44.5°	326.6	325.4	323.4	321.4	320.6	320.9



66.5°	168.6	166.4	164.3	162.0	160.9	160.9
67°	164.8	162.7	160.3	158.0	157.0	157.0



89°	8.7	6.5	5.3	3.7	3.0	2.2
89.5°	6.3	4.0	2.8	1.7	1.3	1.0



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



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



156.5°	1.5	1.3	1.2	1.2	1.2	1.3
157°	1.5	1.3	1.2	1.2	1.2	1.3



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



(END OF REPORT)