

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: P417439

Luminaire Tested: **SMD6S129SWH - 3500K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2008784B001)  
Test Lab: EVERFINE  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6S129SWH - 3500K  
Description: SMD SELECTABLE CCT 3500K  
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1267.4 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

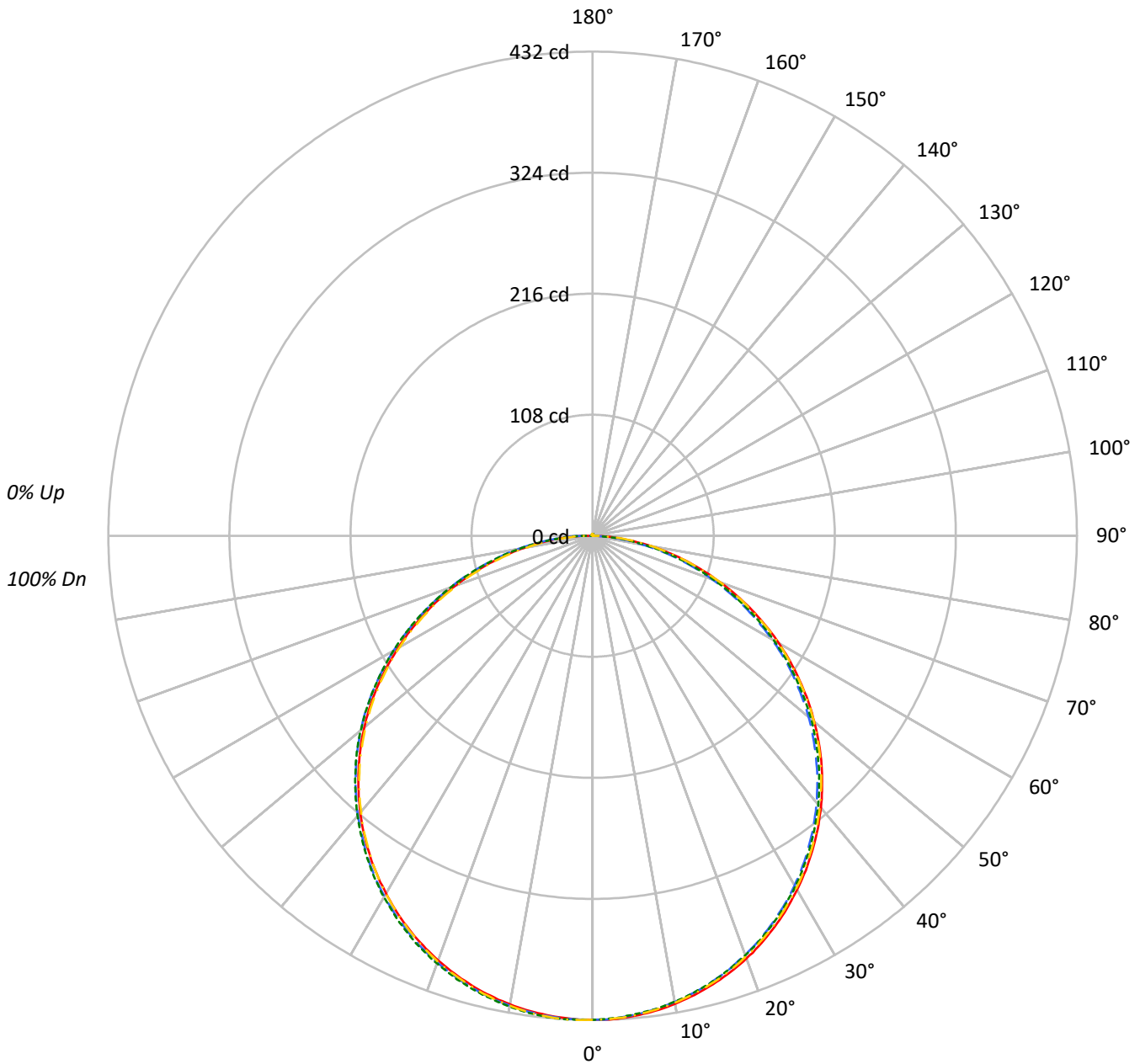
Input Watts (W): 14.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: SMD6S129SWH - 3500K

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	18596	18596	18596	18596
5°	18585	18520	18589	18649
10°	18542	18454	18559	18655
15°	18472	18356	18525	18641
20°	18387	18250	18470	18602
25°	18271	18114	18399	18566
30°	18137	17972	18325	18504
35°	17976	17787	18233	18438
40°	17806	17598	18115	18334
45°	17585	17341	17975	18218
50°	17288	17047	17804	18079
55°	16935	16612	17580	17881
60°	16533	16077	17283	17670
65°	15985	15424	16891	17391
70°	15220	14515	16416	16995
75°	14306	13408	15854	16586
80°	12918	11901	15373	16241
85°	10671	9238	15364	16352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	3.2
10°-20°	117.1	9.2
20°-30°	177.7	14.0
30°-40°	215.1	17.0
40°-50°	224.5	17.7
50°-60°	204.7	16.1
60°-70°	158.6	12.5
70°-80°	94.9	7.5
80°-90°	29.3	2.3
90°-100°	0.6	0.1
100°-110°	0.4	0.0
110°-120°	0.5	0.0
120°-130°	0.7	0.1
130°-140°	0.7	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°	335.7	26.5
0°-40°	550.8	43.5
0°-60°	980.0	77.3
0°-90°	1262.8	99.6
90°-120°	1.6	0.1
90°-150°	3.6	0.3
90°-180°	5.0	0.4
0°-180°	1267.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	432	432	432	432	432	
5°	430	428	430	432	430	41
15°	414	412	416	418	414	117
25°	385	381	387	391	385	177
35°	342	338	347	351	342	214
45°	289	285	295	299	289	223
55°	226	221	234	238	226	202
65°	157	151	166	171	157	155
75°	86	81	95	100	86	91
85°	22	19	31	33	22	24
90°	1	0	5	7	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	2	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°	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9	431.9
0.5°	431.8	431.9	431.8	432.0	431.8	431.6	431.9	431.8	431.8	431.8	431.8
1°	431.8	431.9	431.8	431.9	431.6	431.6	431.7	431.7	431.8	431.8	431.8
1.5°	431.9	431.6	431.8	431.8	431.4	431.4	431.5	431.7	431.8	431.8	431.8
2°	431.9	431.4	431.4	431.4	431.1	431.2	431.5	431.5	431.7	431.7	431.7
2.5°	431.7	431.3	431.2	431.1	430.8	430.9	431.1	431.0	431.3	431.7	431.7
3°	431.5	431.0	430.8	430.6	430.6	430.6	430.9	430.9	431.2	431.5	431.5
3.5°	431.2	430.6	430.4	430.4	430.5	430.2	430.8	430.7	430.9	431.4	431.3
4°	430.8	430.2	430.0	430.1	429.5	429.9	430.3	430.4	430.7	431.3	431.2
4.5°	430.4	429.9	429.5	429.4	429.1	429.3	429.9	429.9	430.3	430.9	431.0
5°	430.0	429.5	429.1	429.1	428.5	428.9	429.5	429.6	430.1	430.6	430.6
5.5°	429.6	428.9	428.7	428.6	428.1	428.4	429.0	429.0	429.7	430.1	430.3
6°	429.1	428.4	428.0	427.9	427.5	427.9	428.4	428.7	429.1	429.7	430.1
6.5°	428.6	427.7	427.5	427.2	427.1	427.3	428.0	428.2	428.7	429.3	429.6
7°	428.1	427.2	426.8	426.7	426.5	426.7	427.3	427.8	428.2	428.8	429.2
7.5°	427.5	426.5	425.9	426.0	426.2	426.2	426.7	427.1	427.8	428.3	428.6
8°	426.9	425.8	425.4	425.2	425.2	425.6	426.0	426.6	427.2	427.9	428.2
8.5°	426.4	425.1	424.6	424.6	424.5	424.7	425.3	425.9	426.5	427.4	427.6
9°	425.6	424.4	423.9	423.9	423.7	424.0	424.6	425.1	425.9	426.5	427.3
9.5°	424.8	423.7	423.0	423.1	422.9	423.2	423.8	424.4	425.2	425.9	426.5
10°	424.1	422.9	422.2	422.2	422.1	422.4	423.1	423.7	424.5	425.3	425.8
10.5°	423.3	422.0	421.5	421.4	421.3	421.5	422.2	422.8	423.8	424.6	424.9
11°	422.3	421.3	420.5	420.4	420.4	420.7	421.3	422.1	423.0	423.9	424.3
11.5°	421.5	420.2	419.5	419.3	419.5	419.5	420.5	421.2	422.3	423.1	423.6
12°	420.4	419.1	418.5	418.2	418.4	418.7	419.5	420.3	421.3	422.4	422.9
12.5°	419.7	418.0	417.6	417.2	417.5	417.6	418.4	419.2	420.4	421.3	421.9
13°	418.7	417.1	416.6	416.2	416.3	416.5	417.5	418.3	419.6	420.5	421.1
13.5°	417.6	416.0	415.5	415.1	415.3	415.3	416.5	417.4	418.8	419.5	420.1
14°	416.5	415.0	414.4	413.9	414.2	414.3	415.5	416.5	417.6	419.0	419.2
14.5°	415.3	413.8	413.3	412.6	413.3	413.1	414.2	415.3	416.6	417.6	418.1
15°	414.4	412.5	411.9	411.5	411.8	412.1	413.2	414.2	415.6	416.6	417.0
15.5°	413.1	411.3	410.6	410.3	410.7	410.9	412.0	413.0	414.4	415.5	416.1
16°	412.0	410.2	409.3	408.9	409.5	409.7	410.8	411.8	413.2	414.5	415.1
16.5°	410.6	408.8	408.1	407.7	408.1	408.2	409.4	410.6	412.1	413.3	414.0
17°	409.5	407.8	406.7	406.4	406.8	407.0	408.2	409.3	410.9	412.2	412.7
17.5°	408.2	406.2	405.5	404.8	405.6	405.6	406.8	408.1	409.7	410.9	411.5
18°	407.0	404.9	404.0	403.4	404.2	404.3	405.5	406.6	408.4	409.7	410.4
18.5°	405.6	403.4	402.4	402.0	402.4	402.8	404.1	405.4	407.1	408.4	409.1
19°	404.2	402.0	400.8	400.5	401.2	401.4	402.6	404.1	405.7	407.0	407.8
19.5°	402.8	400.4	399.3	399.2	399.9	400.0	401.1	402.6	404.5	405.6	406.6
20°	401.3	398.9	398.0	397.7	398.3	398.4	399.7	401.2	403.1	404.1	405.2
20.5°	399.7	397.4	396.3	396.0	396.8	396.9	398.2	399.6	401.6	402.9	403.7
21°	398.5	395.9	394.8	394.3	395.2	395.3	396.8	398.2	400.1	401.6	402.3



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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°	393.5	390.9	389.7	389.4	390.4	390.4	391.7	393.5	395.6	396.9	398.0
23°	391.8	389.1	388.1	387.7	388.5	388.7	390.2	391.7	394.1	395.5	396.5
23.5°	390.0	387.2	386.2	385.9	386.9	386.9	388.3	390.1	392.5	393.8	394.8
24°	388.2	385.6	384.4	384.0	385.0	385.1	386.7	388.5	390.9	392.2	393.1
24.5°	386.6	383.9	382.5	382.1	383.2	383.4	384.8	386.7	389.2	390.5	391.4
25°	384.6	382.1	380.6	380.2	381.3	381.8	383.2	385.0	387.3	388.7	389.9
25.5°	382.8	380.1	378.6	378.2	379.6	379.7	381.1	383.2	385.6	387.0	388.1
26°	381.1	378.2	376.7	376.4	377.8	377.8	379.4	381.4	384.0	385.4	386.3
26.5°	379.1	376.2	374.8	374.4	375.8	375.9	377.3	379.5	382.2	383.7	384.6
27°	377.1	374.3	372.8	372.5	373.7	373.9	375.5	377.6	380.3	381.8	382.9
27.5°	375.2	372.4	370.7	370.3	371.8	372.0	373.4	375.6	378.4	379.8	381.0
28°	373.1	370.4	368.8	368.4	369.6	369.9	371.5	373.7	376.5	378.0	379.2
28.5°	371.0	368.4	366.6	366.2	367.5	367.9	369.4	371.7	374.7	376.0	377.2
29°	368.9	366.2	364.5	364.4	365.6	365.9	367.5	369.8	372.4	374.0	375.4
29.5°	366.9	364.2	362.3	362.1	363.8	364.0	365.3	367.7	370.6	372.0	373.4
30°	364.8	361.9	360.3	359.9	361.5	361.9	363.4	365.7	368.6	369.9	371.5
30.5°	362.6	359.7	358.0	357.5	359.2	359.8	361.2	363.7	366.4	367.8	369.4
31°	360.4	357.7	355.8	355.5	357.2	357.4	359.2	361.6	364.3	365.9	367.5
31.5°	358.3	355.4	353.4	353.0	354.9	355.3	356.8	359.4	362.6	363.8	365.3
32°	356.0	353.1	351.3	350.8	352.7	353.0	354.6	357.2	360.3	361.9	363.3
32.5°	353.9	350.7	348.9	348.4	350.3	350.8	352.3	355.0	358.1	359.5	361.1
33°	351.5	348.3	346.7	346.1	347.9	348.4	350.1	352.7	356.0	357.3	359.1
33.5°	349.2	345.8	344.1	343.6	345.7	346.2	347.7	350.4	353.7	355.2	356.7
34°	346.8	343.6	341.8	341.3	343.3	343.7	345.6	348.1	351.6	353.1	354.6
34.5°	344.5	341.3	339.3	338.7	340.9	341.4	343.1	345.8	349.4	350.7	352.3
35°	342.0	338.9	336.7	336.2	338.4	339.0	340.8	343.4	346.9	348.4	349.9
35.5°	339.7	336.2	334.3	333.6	336.1	336.7	338.4	341.0	344.6	346.2	347.5
36°	337.2	334.0	331.7	331.3	333.6	334.1	335.8	338.5	342.3	343.8	345.4
36.5°	334.7	331.4	329.4	328.7	331.1	331.5	333.3	336.1	339.9	341.3	342.9
37°	332.3	329.0	326.7	326.2	328.7	329.1	330.8	333.7	337.4	338.9	340.4
37.5°	330.0	326.4	324.1	323.5	326.0	326.5	328.4	331.1	335.0	336.5	337.9
38°	327.3	323.6	321.6	321.0	323.4	323.9	325.8	328.8	332.6	334.0	335.6
38.5°	324.7	321.0	318.9	318.2	320.8	321.3	323.2	326.2	330.1	331.5	333.1
39°	322.0	318.4	316.3	315.6	318.2	318.7	320.7	323.7	327.6	329.2	330.6
39.5°	319.4	315.8	313.5	312.7	315.7	315.9	317.9	321.0	325.0	326.7	328.3
40°	316.8	313.2	310.8	310.0	313.1	313.3	315.4	318.4	322.3	323.9	325.7
40.5°	314.1	310.4	308.0	307.2	310.2	310.6	312.7	315.7	319.8	321.4	323.1
41°	311.5	307.5	305.1	304.5	307.6	307.8	310.0	313.1	317.0	318.9	320.5
41.5°	308.6	304.6	302.3	301.6	304.8	305.0	307.3	310.4	314.6	316.2	317.9
42°	305.8	301.8	299.6	298.9	302.0	302.2	304.5	307.7	311.8	313.6	315.3
42.5°	303.0	298.9	296.7	296.2	299.1	299.3	301.8	305.0	309.1	310.8	312.5
43°	300.2	296.2	293.9	293.4	296.4	296.7	299.0	302.3	306.3	308.3	309.9
43.5°	297.3	293.3	291.0	290.4	293.7	294.0	296.2	299.5	303.6	305.5	307.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	288.8	284.5	282.1	281.5	284.8	285.2	287.7	291.1	295.2	297.2	298.9
45.5°	285.8	281.7	279.1	278.6	281.8	282.3	284.7	288.2	292.6	294.5	296.0
46°	283.0	278.7	276.1	275.6	278.9	279.3	281.8	285.4	289.6	291.6	293.4
46.5°	279.9	275.7	273.0	272.4	275.9	276.3	278.9	282.4	286.8	288.9	290.5
47°	277.0	272.4	269.9	269.4	272.9	273.4	275.9	279.6	283.7	285.9	287.6
47.5°	273.7	269.4	266.8	266.3	269.8	270.2	272.8	276.5	280.9	283.0	284.7
48°	270.7	266.3	263.8	263.4	266.8	267.3	269.8	273.5	277.9	280.0	281.8
48.5°	267.5	263.4	260.8	260.3	263.6	264.1	266.9	270.5	275.0	277.1	278.7
49°	264.5	260.3	257.8	257.1	260.8	261.2	263.7	267.6	272.0	274.1	275.9
49.5°	261.3	257.3	254.5	253.9	257.8	258.0	260.8	264.3	268.9	271.1	272.8
50°	258.1	254.0	251.4	250.7	254.5	254.8	257.7	261.5	265.8	268.0	269.7
50.5°	254.8	250.7	248.1	247.6	251.3	251.7	254.4	258.4	262.7	264.7	266.8
51°	251.8	247.4	245.0	244.4	247.9	248.6	251.4	255.3	259.8	261.6	263.8
51.5°	248.5	244.4	241.6	241.1	244.7	245.3	248.2	252.2	256.7	258.7	260.8
52°	245.3	241.1	238.5	237.7	241.2	242.0	244.9	248.9	253.5	255.8	257.7
52.5°	242.2	237.9	235.1	234.5	238.0	238.7	241.7	245.7	250.4	252.6	254.5
53°	239.0	234.5	231.8	231.1	234.5	235.4	238.4	242.4	247.0	249.5	251.2
53.5°	235.5	231.3	228.4	227.9	231.1	231.9	234.9	239.1	244.0	246.2	248.0
54°	232.2	228.0	225.3	224.5	227.8	228.6	231.6	235.9	240.8	243.1	245.0
54.5°	229.0	224.8	222.0	221.2	224.7	225.4	228.2	232.6	237.5	239.9	241.7
55°	225.6	221.5	218.8	217.9	221.3	222.1	224.9	229.3	234.2	236.7	238.4
55.5°	222.3	218.2	215.4	214.6	218.0	218.8	221.6	226.0	230.9	233.3	235.1
56°	219.0	214.9	212.2	211.3	214.4	215.3	218.2	222.6	227.5	229.9	231.8
56.5°	215.7	211.6	208.9	208.0	211.1	211.9	214.9	219.2	224.0	226.6	228.5
57°	212.3	208.4	205.4	204.7	207.7	208.5	211.6	215.8	220.7	223.4	225.1
57.5°	209.0	204.8	202.0	201.2	204.3	205.0	208.1	212.4	217.5	219.9	221.8
58°	205.6	201.4	198.5	197.7	200.8	201.7	204.7	209.2	214.2	216.6	218.4
58.5°	202.2	198.0	195.1	194.4	197.1	198.3	201.4	205.7	210.7	213.3	215.1
59°	198.8	194.5	191.6	190.8	193.7	195.0	198.0	202.3	207.1	209.8	211.7
59.5°	195.5	191.0	188.0	187.3	190.2	191.5	194.5	198.8	203.8	206.3	208.2
60°	192.0	187.4	184.5	183.9	186.7	187.9	191.0	195.6	200.7	202.9	204.8
60.5°	188.4	184.0	181.0	180.3	183.3	184.3	187.7	192.3	197.2	199.6	201.4
61°	185.1	180.5	177.5	176.9	179.6	180.7	184.2	188.7	193.9	196.2	198.0
61.5°	181.6	177.0	174.0	173.2	176.3	177.3	180.6	185.2	190.3	192.8	194.7
62°	178.1	173.5	170.4	169.7	172.7	173.7	177.0	181.5	187.0	189.4	191.3
62.5°	174.4	169.8	166.7	166.0	169.0	170.2	173.5	178.1	183.4	185.7	187.7
63°	170.9	166.2	163.2	162.5	165.5	166.7	169.9	174.5	179.8	182.2	184.2
63.5°	167.3	162.8	159.8	159.1	161.9	163.2	166.3	171.0	176.3	178.8	180.7
64°	163.8	159.3	156.2	155.5	158.5	159.7	162.9	167.6	172.9	175.4	177.3
64.5°	160.4	155.8	152.7	151.9	154.9	156.2	159.3	164.0	169.3	171.7	173.8
65°	156.9	152.2	149.1	148.3	151.4	152.6	155.9	160.5	165.8	168.2	170.3
65.5°	153.3	148.6	145.6	144.5	147.9	149.1	152.3	157.0	162.2	164.8	166.6
66°	149.6	144.9	142.0	141.0	144.2	145.3	148.9	153.4	158.8	161.1	163.2





TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	138.8	134.1	131.2	130.1	133.4	134.7	138.1	142.8	148.1	150.7	152.7
68°	135.2	130.5	127.6	126.6	129.8	131.0	134.4	139.2	144.5	147.2	149.2
68.5°	131.6	126.9	124.2	123.2	126.2	127.6	131.0	135.8	141.1	143.7	145.6
69°	128.1	123.5	120.5	119.5	122.6	124.0	127.6	132.1	137.4	140.3	142.2
69.5°	124.5	119.8	116.9	115.9	118.9	120.5	124.0	128.5	134.0	136.7	138.7
70°	120.9	116.3	113.3	112.4	115.3	116.9	120.5	125.0	130.4	133.0	135.1
70.5°	117.3	112.8	109.7	108.7	111.8	113.3	117.0	121.5	126.9	129.4	131.5
71°	113.7	109.2	106.2	105.3	108.4	109.7	113.4	118.1	123.5	126.0	128.1
71.5°	110.3	105.8	102.7	101.8	104.6	106.1	109.9	114.4	119.7	122.5	124.6
72°	106.7	102.1	99.2	98.4	101.1	102.6	106.5	110.8	116.2	118.9	121.1
72.5°	103.2	98.5	95.5	94.8	97.7	99.2	102.8	107.4	112.8	115.4	117.4
73°	99.7	95.0	92.2	91.4	94.3	95.7	99.3	103.8	109.1	111.8	113.8
73.5°	96.3	91.5	88.8	88.1	90.8	92.4	95.8	100.4	105.5	108.3	110.2
74°	92.7	88.2	85.5	84.7	87.4	89.1	92.5	97.0	102.1	104.7	106.9
74.5°	89.4	84.7	82.1	81.1	84.1	85.7	89.2	93.6	98.5	101.2	103.3
75°	86.0	81.3	78.6	77.9	80.6	82.3	85.8	90.3	95.3	97.7	99.9
75.5°	82.6	77.9	75.2	74.5	77.4	79.1	82.5	86.9	91.9	94.5	96.5
76°	79.2	74.5	71.8	71.1	74.0	75.7	79.2	83.6	88.5	91.2	93.2
76.5°	75.6	71.1	68.4	67.7	70.7	72.4	75.8	80.2	85.2	87.8	89.8
77°	72.3	67.7	65.1	64.3	67.3	69.0	72.5	76.9	81.9	84.5	86.5
77.5°	68.9	64.4	61.7	61.0	63.9	65.8	69.3	73.6	78.6	81.2	83.2
78°	65.5	61.1	58.5	57.7	60.6	62.5	66.0	70.3	75.3	78.0	79.9
78.5°	62.2	57.8	55.2	54.4	57.4	59.3	62.7	67.1	72.0	74.6	76.6
79°	58.8	54.5	51.9	51.1	54.2	56.1	59.4	63.9	68.6	71.3	73.3
79.5°	55.4	51.2	48.7	47.8	51.1	52.9	56.3	60.5	65.4	67.9	69.9
80°	52.1	47.8	45.4	44.5	48.0	49.8	53.1	57.4	62.0	64.7	66.6
80.5°	48.8	44.6	42.1	41.3	44.7	46.7	50.0	54.2	58.9	61.5	63.4
81°	45.6	41.5	39.2	38.4	41.6	43.7	47.0	51.3	55.7	58.3	60.2
81.5°	42.3	38.4	36.1	35.2	38.6	40.5	43.9	48.0	52.5	55.1	57.0
82°	39.5	35.4	33.0	32.2	35.6	37.5	40.8	44.8	49.3	51.9	53.8
82.5°	36.2	32.3	30.1	29.2	32.5	34.6	37.8	41.7	46.3	48.9	50.7
83°	33.1	29.4	27.2	26.5	29.7	31.6	34.8	39.0	43.1	45.9	47.6
83.5°	30.0	26.5	24.2	23.6	26.9	28.7	31.9	35.8	40.1	42.7	44.5
84°	27.2	23.6	21.7	21.0	24.0	25.8	28.9	32.9	37.1	39.6	41.4
84.5°	24.3	21.1	18.8	18.2	21.4	23.1	26.2	29.9	34.1	36.7	38.5
85°	21.6	18.2	16.1	15.5	18.7	20.6	23.3	27.2	31.1	33.8	35.4
85.5°	18.8	15.5	13.5	12.9	15.9	17.8	20.8	24.2	28.3	30.8	32.5
86°	16.1	12.9	10.9	10.4	13.4	15.2	18.1	21.7	25.4	27.9	29.7
86.5°	13.5	10.3	8.4	7.9	10.8	12.6	15.4	18.9	22.7	25.2	26.9
87°	10.8	7.9	6.0	5.7	8.5	10.1	12.8	16.2	20.1	22.4	23.8
87.5°	8.3	5.8	3.7	3.4	6.1	7.7	10.3	13.6	17.3	19.8	21.4
88°	6.2	3.6	1.8	1.5	4.0	5.6	7.9	11.1	14.7	17.2	18.6
88.5°	3.9	1.5	0.8	0.8	1.5	3.2	5.6	8.6	12.1	14.5	15.8



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.7	0.6	0.6	0.6	0.3	0.4	0.2	1.9	5.0	7.1	8.2
90.5°	0.6	0.6	0.6	0.6	0.2	0.3	0.2	0.2	2.7	4.8	5.9
91°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.2	0.5	2.7	3.7
91.5°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.7	1.6
92°	0.6	0.5	0.6	0.6	0.2	0.3	0.2	0.3	0.1	0.5	0.4
92.5°	0.6	0.5	0.6	0.6	0.3	0.3	0.2	0.1	0.1	0.5	0.1
93°	0.6	0.5	0.6	0.6	0.3	0.3	0.3	0.5	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	0.3
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	0.5	0.1
101°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.1	0.3	0.5	0.1
101.5°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	0.1
102°	0.5	0.5	0.6	0.6	0.3	0.3	0.3	0.2	0.3	0.5	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	0.5	0.6	0.1
103.5°	0.5	0.5	0.6	0.6	0.2	0.3	0.4	0.2	0.5	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	0.5	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	0.3	0.3	0.4	0.3	0.1
106.5°	0.5	0.5	0.6	0.6	0.5	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	0.3	0.2
107.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.5	0.4	0.2	0.2
108°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.5	0.5	0.4	0.3
108.5°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.7	0.5	0.4	0.2
109°	0.5	0.5	0.6	0.6	0.5	0.3	0.4	0.7	0.5	0.2	0.5
109.5°	0.5	0.5	0.6	0.6	0.5	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	0.5	0.3	0.3
110.5°	0.5	0.5	0.6	0.6	0.5	0.4	0.5	0.7	0.5	0.3	0.3
111°	0.5	0.5	0.6	0.6	0.5	0.3	0.5	0.7	0.5	0.5	0.3



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

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



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.1	1.1	1.1	1.1	0.7	0.8	0.7	0.9	0.7	0.7	0.5
135.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.9	0.7	0.7	0.7
136°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.6
136.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7	0.7	0.5
137°	1.1	1.1	1.1	1.1	0.7	0.6	0.8	0.8	0.7	0.7	0.7
137.5°	1.1	1.1	1.1	1.1	0.7	0.6	0.8	0.8	0.7	0.6	0.6
138°	1.1	1.1	1.1	1.1	0.7	0.7	0.9	0.8	0.7	0.6	0.6
138.5°	1.1	1.1	1.1	1.1	0.8	0.8	0.7	0.8	0.7	0.6	0.5
139°	1.1	1.1	1.1	1.1	0.8	0.9	0.8	0.8	0.7	0.7	0.7
139.5°	1.1	1.1	1.1	1.1	0.6	0.9	0.7	0.7	0.7	0.7	0.6
140°	1.1	1.1	1.1	1.1	0.6	0.7	0.7	0.6	0.7	0.7	0.7
140.5°	1.1	1.1	1.1	1.1	0.7	0.8	0.7	0.5	0.7	0.7	0.8
141°	1.1	1.1	1.1	1.1	0.7	0.8	0.7	1.0	0.7	0.6	0.8
141.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	1.1	0.7	0.8	0.7
142°	1.1	1.1	1.1	1.1	0.7	0.7	0.9	1.1	0.7	0.8	0.7
142.5°	1.1	1.1	1.1	1.1	0.9	0.9	0.9	1.0	0.7	0.6	0.7
143°	1.1	1.1	1.1	1.1	0.7	0.9	0.9	1.1	0.8	0.6	0.9
143.5°	1.1	1.1	1.1	1.1	0.7	0.9	0.9	1.1	0.8	0.8	0.9
144°	1.1	1.1	1.1	1.1	0.7	0.9	1.0	1.1	0.8	0.8	0.9
144.5°	1.1	1.1	1.1	1.1	0.7	0.8	1.0	1.1	0.9	0.9	0.9
145°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.1	1.0	0.9	0.9
145.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.1	0.9	1.0	0.9
146°	1.1	1.1	1.1	1.1	0.7	0.8	1.0	1.1	0.9	1.0	1.0
146.5°	1.1	1.1	1.1	1.1	0.8	0.8	1.0	1.1	0.9	1.0	1.0
147°	1.1	1.1	1.1	1.1	0.8	0.7	1.0	1.2	0.9	1.0	1.0
147.5°	1.1	1.1	1.1	1.1	0.8	0.7	1.1	0.9	1.0	1.0	1.1
148°	1.1	1.1	1.1	1.1	0.8	0.7	1.1	0.7	1.0	1.1	1.1
148.5°	1.1	1.1	1.1	1.1	0.9	0.7	1.1	1.1	1.0	1.1	1.0
149°	1.1	1.1	1.1	1.1	0.9	0.7	1.1	1.1	1.0	0.9	1.0
149.5°	1.1	1.1	1.1	1.1	0.9	0.9	1.1	0.9	1.1	0.9	1.1
150°	1.1	1.1	1.1	1.1	0.8	0.9	1.1	1.0	1.1	1.0	1.1
150.5°	1.1	1.7	1.1	1.1	0.9	0.9	1.1	1.0	1.1	0.9	1.1
151°	1.1	1.4	1.1	1.1	0.9	0.9	1.1	1.0	1.1	0.9	1.1
151.5°	1.1	1.4	1.1	1.1	1.0	0.9	1.1	1.0	1.1	0.9	1.1
152°	1.1	1.3	1.1	1.2	0.9	0.9	1.1	0.9	1.1	0.9	1.2
152.5°	1.1	1.3	1.1	1.1	1.0	0.9	1.1	0.9	1.1	0.9	1.2
153°	1.1	1.3	1.1	1.1	0.9	1.1	1.1	1.0	1.1	0.9	1.1
153.5°	1.1	1.3	1.1	1.1	0.8	1.1	1.1	1.0	1.3	1.1	1.2
154°	1.1	1.3	1.1	1.1	0.9	1.1	1.1	0.9	1.2	1.0	1.2
154.5°	1.1	1.3	1.1	1.1	0.9	1.0	1.1	0.9	1.2	0.9	1.2
155°	1.1	1.3	1.1	1.1	0.9	1.1	1.1	0.9	1.2	1.0	1.2
155.5°	1.1	1.3	1.1	1.1	0.9	1.1	1.1	0.9	1.2	1.2	1.2
156°	1.1	1.3	1.1	1.2	0.9	1.1	1.1	0.9	1.2	1.1	1.3



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	431.9	431.9	431.9	431.9	431.9	431.9
0.5°	432.0	431.9	431.8	432.0	432.1	431.8
1°	432.1	431.9	431.9	432.0	432.1	431.8
1.5°	431.9	431.9	431.9	432.2	432.1	431.9
2°	432.0	432.0	431.9	432.2	432.1	431.9
2.5°	431.9	432.0	431.9	432.2	432.1	431.7
3°	431.9	432.0	431.9	432.2	431.8	431.5
3.5°	431.7	432.0	431.9	432.2	431.7	431.2
4°	431.5	431.9	431.9	431.8	431.3	430.8
4.5°	431.3	431.8	431.5	431.6	431.1	430.4
5°	431.0	431.5	431.3	431.2	430.7	430.0
5.5°	430.6	431.2	431.0	430.8	430.2	429.6
6°	430.4	430.8	430.7	430.5	429.8	429.1
6.5°	430.1	430.3	430.3	430.0	429.5	428.6
7°	429.5	430.0	429.8	429.6	428.9	428.1
7.5°	428.9	429.6	429.2	429.1	428.4	427.5
8°	428.6	429.1	428.8	428.5	427.6	426.9
8.5°	428.1	428.6	428.1	427.8	427.1	426.4
9°	427.6	427.9	427.6	427.2	426.3	425.6
9.5°	426.9	427.2	426.8	426.5	425.7	424.8
10°	426.4	426.7	426.0	425.8	424.8	424.1
10.5°	425.8	425.8	425.4	425.0	424.2	423.3
11°	424.9	425.2	424.8	424.2	423.3	422.3
11.5°	424.2	424.4	424.0	423.1	422.5	421.5
12°	423.5	423.5	422.9	422.6	421.6	420.4
12.5°	422.5	422.5	422.0	421.6	420.8	419.7
13°	421.6	421.8	421.2	420.6	419.9	418.7
13.5°	420.8	421.0	420.2	419.9	419.0	417.6
14°	419.9	420.0	419.3	418.7	417.7	416.5
14.5°	418.9	419.0	418.3	417.7	416.7	415.3
15°	417.8	418.2	417.3	416.4	415.6	414.4
15.5°	416.8	417.1	416.1	415.2	414.4	413.1
16°	415.8	415.8	415.1	414.2	413.1	412.0
16.5°	414.7	414.7	413.8	413.0	411.9	410.6
17°	413.5	413.9	412.7	411.8	410.7	409.5
17.5°	412.3	412.3	411.6	410.6	409.3	408.2
18°	411.1	411.2	410.3	409.5	408.1	407.0
18.5°	409.8	409.9	408.9	408.1	406.7	405.6
19°	408.4	408.6	407.7	406.8	405.3	404.2
19.5°	407.4	407.4	406.3	405.5	404.0	402.8
20°	406.0	406.0	405.0	404.1	402.6	401.3
20.5°	404.6	404.9	403.4	402.7	401.1	399.7
21°	403.2	403.4	402.1	401.1	399.6	398.5



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	398.6	399.0	397.7	396.7	394.9	393.5
23°	397.1	397.4	396.0	394.8	393.2	391.8
23.5°	395.5	396.0	394.3	393.3	391.5	390.0
24°	393.9	394.1	392.8	391.4	389.8	388.2
24.5°	392.4	392.5	391.2	389.7	388.0	386.6
25°	390.6	390.8	389.4	388.0	386.3	384.6
25.5°	389.0	389.2	387.5	386.2	384.3	382.8
26°	387.1	387.4	385.9	384.2	382.6	381.1
26.5°	385.5	385.7	384.1	382.5	380.5	379.1
27°	383.7	383.8	382.1	380.6	378.8	377.1
27.5°	382.0	382.0	380.2	378.7	376.9	375.2
28°	380.0	379.9	378.3	376.7	374.8	373.1
28.5°	378.2	378.0	376.3	374.8	373.0	371.0
29°	376.3	376.1	374.5	372.7	370.9	368.9
29.5°	374.3	374.2	372.3	370.8	368.7	366.9
30°	372.2	372.2	370.4	368.6	366.6	364.8
30.5°	370.4	370.4	368.5	366.6	364.6	362.6
31°	368.4	368.2	366.4	364.7	362.5	360.4
31.5°	366.3	366.1	364.3	362.6	360.5	358.3
32°	364.1	364.1	362.0	360.3	358.2	356.0
32.5°	362.3	362.1	360.0	358.2	356.1	353.9
33°	360.0	359.8	357.9	355.9	353.8	351.5
33.5°	357.8	357.8	355.5	353.7	351.6	349.2
34°	355.6	355.3	353.4	351.2	349.2	346.8
34.5°	353.4	353.0	351.0	348.9	347.0	344.5
35°	351.1	350.8	348.7	346.4	344.5	342.0
35.5°	348.9	348.4	346.2	344.2	342.0	339.7
36°	346.6	345.9	344.0	341.8	339.7	337.2
36.5°	344.3	343.7	341.6	339.3	337.2	334.7
37°	341.9	341.3	339.2	336.9	334.6	332.3
37.5°	339.5	338.7	336.6	334.6	332.1	330.0
38°	337.1	336.4	334.2	331.8	329.7	327.3
38.5°	334.6	333.9	331.5	329.4	327.1	324.7
39°	332.1	331.3	329.1	326.9	324.5	322.0
39.5°	329.5	328.8	326.5	324.2	321.9	319.4
40°	327.0	326.2	323.9	321.2	319.2	316.8
40.5°	324.5	323.8	321.3	318.8	316.5	314.1
41°	321.7	321.1	318.7	316.3	313.7	311.5
41.5°	319.2	318.4	316.0	313.6	310.9	308.6
42°	316.5	315.7	313.4	310.7	308.1	305.8
42.5°	313.9	313.2	310.7	308.0	305.3	303.0
43°	311.1	310.4	308.0	305.3	302.5	300.2
43.5°	308.4	307.7	305.2	302.5	299.7	297.3





TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	300.1	299.2	296.6	294.1	291.1	288.8
45.5°	297.3	296.5	293.9	291.2	288.3	285.8
46°	294.7	293.9	290.9	288.2	285.3	283.0
46.5°	291.9	290.9	288.0	285.4	282.5	279.9
47°	288.9	287.9	285.2	282.5	279.3	277.0
47.5°	285.9	285.4	282.2	279.3	276.2	273.7
48°	282.9	282.2	279.4	276.3	273.3	270.7
48.5°	280.2	279.2	276.4	273.2	270.4	267.5
49°	277.0	276.3	273.3	270.3	267.2	264.5
49.5°	274.0	273.1	270.1	267.1	264.2	261.3
50°	270.9	269.9	267.1	264.0	261.1	258.1
50.5°	267.9	266.8	264.0	261.1	258.0	254.8
51°	265.0	263.7	261.0	258.0	254.8	251.8
51.5°	261.9	260.7	257.9	254.8	251.6	248.5
52°	258.7	257.7	254.8	251.6	248.2	245.3
52.5°	255.6	254.4	251.5	248.5	245.2	242.2
53°	252.4	251.1	248.5	245.3	241.9	239.0
53.5°	249.2	247.8	245.2	241.9	238.6	235.5
54°	246.0	244.8	242.0	238.7	235.4	232.2
54.5°	242.8	241.5	238.8	235.5	232.1	229.0
55°	239.6	238.2	235.6	232.2	228.6	225.6
55.5°	236.5	234.9	232.2	229.0	225.4	222.3
56°	233.1	231.6	228.9	225.7	222.1	219.0
56.5°	229.8	228.4	225.7	222.3	218.8	215.7
57°	226.5	225.2	222.5	219.1	215.5	212.3
57.5°	223.3	221.8	219.2	215.8	212.2	209.0
58°	220.0	218.5	215.8	212.5	208.9	205.6
58.5°	216.6	215.3	212.5	209.1	205.6	202.2
59°	213.2	212.1	209.3	205.8	202.1	198.8
59.5°	209.9	208.6	205.9	202.4	198.5	195.5
60°	206.3	205.2	202.5	198.9	195.0	192.0
60.5°	202.9	201.8	199.0	195.6	191.6	188.4
61°	199.6	198.4	195.6	192.0	188.2	185.1
61.5°	196.3	195.1	192.2	188.6	184.7	181.6
62°	192.8	191.6	188.7	184.9	181.3	178.1
62.5°	189.3	188.1	185.1	181.5	177.7	174.4
63°	185.9	184.7	181.6	178.0	174.2	170.9
63.5°	182.5	181.3	178.1	174.5	170.7	167.3
64°	179.0	177.7	174.7	171.0	167.1	163.8
64.5°	175.6	174.2	171.0	167.3	163.6	160.4
65°	172.0	170.7	167.7	163.7	160.1	156.9
65.5°	168.5	167.2	164.1	160.3	156.6	153.3
66°	165.0	163.6	160.5	156.8	152.9	149.6



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	154.3	153.1	149.9	146.1	142.1	138.8
68°	150.6	149.5	146.4	142.6	138.5	135.2
68.5°	147.0	145.9	142.9	139.0	134.9	131.6
69°	143.4	142.3	139.2	135.3	131.3	128.1
69.5°	139.7	138.6	135.6	131.9	127.7	124.5
70°	136.2	135.0	132.1	128.3	124.2	120.9
70.5°	132.6	131.4	128.4	124.8	120.7	117.3
71°	128.9	127.8	125.0	121.1	117.1	113.7
71.5°	125.5	124.4	121.5	117.6	113.6	110.3
72°	122.1	120.8	117.9	114.0	110.1	106.7
72.5°	118.6	117.3	114.2	110.5	106.5	103.2
73°	114.8	113.7	110.7	106.9	103.0	99.7
73.5°	111.2	110.3	107.2	103.4	99.6	96.3
74°	107.8	106.7	103.6	99.8	96.1	92.7
74.5°	104.3	103.3	100.1	96.4	92.6	89.4
75°	100.9	99.7	96.7	92.9	89.3	86.0
75.5°	97.4	96.2	93.2	89.6	86.0	82.6
76°	94.1	92.7	89.8	86.3	82.6	79.2
76.5°	90.8	89.4	86.4	82.8	79.2	75.6
77°	87.3	86.0	82.9	79.5	75.9	72.3
77.5°	83.8	82.6	79.5	76.0	72.5	68.9
78°	80.6	79.1	76.1	72.6	69.1	65.5
78.5°	77.2	75.7	72.7	69.4	65.6	62.2
79°	73.9	72.3	69.3	66.0	62.3	58.8
79.5°	70.5	68.7	66.0	62.6	59.0	55.4
80°	67.2	65.5	62.6	59.2	55.7	52.1
80.5°	64.0	62.2	59.3	55.9	52.4	48.8
81°	60.8	58.9	55.9	52.7	49.0	45.6
81.5°	57.6	55.6	52.7	49.5	45.7	42.3
82°	54.4	52.3	49.4	46.1	42.6	39.5
82.5°	51.2	48.9	46.1	43.0	39.6	36.2
83°	48.1	45.8	42.9	40.0	36.3	33.1
83.5°	45.0	42.5	40.0	36.8	33.3	30.0
84°	41.9	39.5	36.9	33.8	30.3	27.2
84.5°	39.0	36.3	33.9	30.9	27.5	24.3
85°	36.0	33.1	30.9	27.9	24.5	21.6
85.5°	32.9	30.2	27.9	25.0	21.8	18.8
86°	29.9	27.3	25.1	22.4	19.1	16.1
86.5°	27.1	24.6	22.5	19.6	16.5	13.5
87°	24.1	21.8	19.7	17.0	13.9	10.8
87.5°	21.8	19.2	17.0	14.4	11.4	8.3
88°	19.1	16.6	14.5	11.8	8.8	6.2
88.5°	16.2	13.8	12.0	9.3	6.4	3.9



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	8.6	6.6	5.0	2.5	0.9	0.7
90.5°	6.3	4.6	2.9	1.0	0.7	0.6
91°	4.2	2.4	1.2	0.6	0.6	0.6
91.5°	2.2	0.9	0.6	0.6	0.6	0.6
92°	0.5	0.7	0.6	0.5	0.5	0.6
92.5°	0.2	0.7	0.7	0.5	0.6	0.6
93°	0.2	0.6	0.7	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: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**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°	0.5	0.5	0.5	0.5	0.5	0.5
116°	0.5	0.5	0.5	0.5	0.5	0.5
116.5°	0.5	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	0.7
118.5°	0.3	0.5	0.7	0.7	0.6	0.7
119°	0.5	0.5	0.7	0.7	0.5	0.6
119.5°	0.5	0.5	0.7	0.7	0.5	0.7
120°	0.5	0.5	0.7	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	0.9	0.8	0.7
121.5°	0.6	0.6	0.7	0.9	0.8	0.7
122°	0.7	0.7	0.7	0.9	0.8	0.8
122.5°	0.4	0.7	0.7	0.9	0.9	0.8
123°	0.5	0.7	0.9	0.9	0.9	0.8
123.5°	0.5	0.7	0.8	0.9	0.9	0.8
124°	0.3	0.8	0.8	0.9	0.9	0.9
124.5°	0.6	0.8	0.8	1.0	1.0	0.9
125°	0.5	0.9	0.8	1.0	1.0	0.9
125.5°	0.5	0.8	0.8	1.0	0.9	0.9
126°	0.5	0.8	0.8	1.0	0.9	0.9
126.5°	0.5	0.9	0.9	1.0	1.0	0.9
127°	0.5	0.9	0.8	1.0	1.0	0.9
127.5°	0.7	0.9	0.8	1.0	1.0	0.9
128°	0.7	0.9	1.0	1.0	1.0	0.9
128.5°	0.7	0.9	1.0	0.9	1.1	0.9
129°	0.6	0.9	1.0	0.9	1.1	0.9
129.5°	0.6	0.9	1.1	0.9	1.1	0.9
130°	0.5	0.9	1.1	0.9	1.1	0.9
130.5°	0.6	0.9	1.0	0.9	1.2	0.9
131°	0.6	1.1	1.0	0.9	1.1	0.9
131.5°	0.6	1.1	1.0	0.9	1.1	0.9
132°	0.6	1.0	1.0	0.9	1.1	1.1
132.5°	0.5	1.0	1.1	0.9	1.1	1.1
133°	0.5	1.0	1.1	0.9	1.1	1.1
133.5°	0.8	1.0	1.1	0.9	1.1	1.1



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	1.0	1.1	1.1	1.1	1.1
135.5°	0.5	1.0	1.1	1.0	1.1	1.1
136°	0.5	1.0	1.1	1.0	1.1	1.1
136.5°	0.5	1.0	1.1	1.0	1.1	1.1
137°	0.7	1.0	1.1	1.0	1.1	1.1
137.5°	0.7	1.0	1.1	1.0	1.1	1.1
138°	0.7	1.0	1.1	1.0	1.1	1.1
138.5°	0.7	1.0	1.1	1.0	1.1	1.1
139°	0.7	1.0	1.1	1.0	1.1	1.1
139.5°	0.7	1.0	1.1	1.0	1.1	1.1
140°	0.7	1.0	1.1	1.0	1.1	1.1
140.5°	0.7	1.0	1.1	1.0	1.1	1.1
141°	0.8	1.0	1.1	1.0	1.1	1.1
141.5°	0.7	1.0	1.1	1.0	1.1	1.1
142°	0.7	1.0	1.1	1.0	1.1	1.1
142.5°	0.6	1.0	1.1	1.0	1.1	1.1
143°	0.8	1.0	1.1	1.0	1.1	1.1
143.5°	0.7	1.0	1.1	1.0	1.1	1.1
144°	0.6	1.0	1.1	1.0	1.1	1.1
144.5°	0.8	1.0	1.1	1.0	1.1	1.1
145°	0.6	1.0	1.1	1.0	1.1	1.1
145.5°	0.8	1.0	1.1	1.0	1.1	1.1
146°	0.8	1.0	1.1	1.0	1.1	1.1
146.5°	0.8	1.0	1.1	1.0	1.1	1.1
147°	0.9	1.0	1.1	1.0	1.1	1.1
147.5°	0.9	1.0	1.1	1.0	1.1	1.1
148°	0.9	1.0	1.1	1.0	1.1	1.1
148.5°	0.9	1.0	1.1	1.0	1.1	1.1
149°	0.9	1.0	1.1	1.0	1.1	1.1
149.5°	0.8	1.0	1.1	1.0	1.1	1.1
150°	0.7	1.0	1.1	1.0	1.1	1.1
150.5°	0.7	1.0	1.1	1.0	1.1	1.1
151°	0.7	1.0	1.1	1.0	1.1	1.1
151.5°	0.9	1.0	1.1	1.0	1.1	1.1
152°	0.9	1.0	1.1	1.0	1.1	1.1
152.5°	0.9	1.0	1.1	1.0	1.1	1.1
153°	0.9	1.0	1.1	1.0	1.1	1.1
153.5°	0.9	1.0	1.1	1.0	1.1	1.1
154°	0.9	1.0	1.1	1.0	1.1	1.1
154.5°	0.9	1.0	1.1	1.0	1.1	1.1
155°	0.9	1.0	1.1	1.0	1.1	1.1
155.5°	0.9	1.0	1.1	1.0	1.1	1.1
156°	0.9	1.0	1.1	1.0	1.1	1.1



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.1	1.2	1.1	1.1	1.1	1.4
158°	1.1	1.2	1.1	1.1	1.1	1.5
158.5°	1.1	1.2	1.1	1.1	1.1	1.4
159°	1.3	1.2	1.1	1.1	1.2	1.4
159.5°	1.1	1.2	1.1	1.1	1.2	1.4
160°	1.1	1.2	1.1	1.1	1.1	1.4
160.5°	1.1	1.2	1.1	1.1	1.1	1.4
161°	1.3	1.2	1.7	1.1	1.1	1.4
161.5°	1.3	1.2	1.6	1.1	1.1	1.4
162°	1.3	1.2	1.6	1.2	1.1	1.4
162.5°	1.3	1.2	1.7	1.2	1.2	1.4
163°	1.3	1.2	1.6	1.2	1.1	1.4
163.5°	1.3	1.3	1.6	1.2	1.2	1.4
164°	1.3	1.3	1.6	1.2	1.6	1.4
164.5°	1.3	1.3	1.6	1.2	1.6	1.4
165°	1.3	1.5	1.6	1.2	1.7	1.4
165.5°	0.9	1.7	1.6	1.2	1.6	1.4
166°	1.3	1.7	1.6	1.3	1.6	1.4
166.5°	1.4	1.7	1.6	1.2	1.6	1.4
167°	1.4	1.7	1.6	1.3	1.6	1.4
167.5°	1.3	1.7	1.6	1.8	1.6	1.4
168°	1.3	1.7	1.6	1.7	1.6	1.4
168.5°	1.3	1.7	1.6	1.7	1.6	1.4
169°	1.3	1.7	1.6	1.7	1.6	1.4
169.5°	1.3	1.7	1.6	1.7	1.6	1.4
170°	1.3	1.7	1.6	1.7	1.6	1.4
170.5°	1.3	1.7	1.6	1.7	1.6	1.4
171°	1.3	1.7	1.7	1.7	1.6	1.4
171.5°	1.3	1.7	1.7	1.7	1.6	1.4
172°	1.3	1.7	1.7	1.7	1.6	1.4
172.5°	1.3	1.7	1.7	1.7	1.6	1.4
173°	1.3	1.7	1.7	1.7	1.6	1.4
173.5°	1.3	1.7	1.7	1.7	1.6	1.4
174°	1.3	1.7	1.7	1.7	1.6	1.4
174.5°	1.3	1.7	1.7	1.7	1.6	1.4
175°	1.3	1.7	1.7	1.7	1.6	1.4
175.5°	1.3	1.7	1.7	1.7	1.6	1.4
176°	1.3	1.7	1.7	1.7	1.6	1.4
176.5°	1.3	1.7	1.7	1.7	1.6	1.4
177°	1.3	1.7	1.7	1.7	1.6	1.4
177.5°	1.3	1.7	1.7	1.7	1.6	1.4
178°	1.3	1.7	1.7	1.7	1.6	1.4
178.5°	1.3	1.7	1.7	1.7	1.6	1.4



TEST NUMBER: P417439

CATALOG NUMBER: SMD6S129SWH - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.4	1.4	1.4	1.4	1.4	1.4



Report Generated By E9808895 / USPTCWHP6082093







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







21.5°	396.7	394.2	393.2	392.7	393.7	393.6	395.0	396.7	398.6	399.9	400.9
22°	395.1	392.7	391.5	391.0	392.1	392.2	393.4	395.1	397.1	398.4	399.4



44°	294.7	290.5	288.0	287.5	290.8	291.1	293.5	296.7	300.8	302.6	304.5
44.5°	291.8	287.6	284.9	284.5	287.9	288.2	290.6	294.0	298.0	299.8	301.6



66.5°	146.0	141.4	138.4	137.4	140.6	141.9	145.1	149.9	155.3	157.8	159.6
67°	142.4	137.7	134.8	133.9	137.0	138.2	141.7	146.3	151.7	154.4	156.3



89°	1.6	0.7	0.7	0.6	0.3	0.8	3.3	6.3	9.5	11.9	13.2
89.5°	0.7	0.6	0.7	0.7	0.3	0.3	1.0	4.3	7.1	9.4	10.7





111.5°	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.7	0.5	0.5	0.3
112°	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.7	0.5	0.5	0.3



134°	1.1	1.1	1.1	1.1	0.7	0.5	0.6	0.9	0.7	0.7	0.5
134.5°	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.9	0.7	0.7	0.5



156.5°	1.1	1.3	1.1	1.1	1.1	1.3	1.1	0.9	1.3	1.1	1.3
157°	1.1	1.3	1.1	1.3	1.1	1.3	1.1	0.9	1.3	1.1	1.3



179°	1.4	1.3	1.3	1.5	1.5	1.7	1.7	1.7	1.6	1.4	1.3
179.5°	1.4	1.3	1.3	1.9	1.5	1.7	1.7	1.7	1.6	1.4	1.3





21.5°	401.7	401.8	400.4	399.6	398.2	396.7
22°	400.1	400.4	399.2	398.2	396.5	395.1



44°	305.7	305.0	302.4	299.6	296.8	294.7
44.5°	302.9	302.1	299.4	296.9	294.1	291.8



66.5°	161.5	160.2	157.0	153.4	149.3	146.0
67°	158.0	156.6	153.5	149.6	145.7	142.4





89°	13.7	11.4	9.5	6.9	4.4	1.6
89.5°	11.1	8.9	7.2	4.6	2.1	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	1.1	1.1
134.5°	0.6	1.0	1.1	0.9	1.1	1.1



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



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



(END OF REPORT)