

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: P417429

Luminaire Tested: **SMD6R129SWHE - 3500K**

Issue Date: 11/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P417429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2008665A001)  
Test Lab: EVERFINE  
Issue Date: 11/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: SMD6R129SWHE - 3500K  
Description: SMD SELECTABLE CCT 3500K  
Light Source: SELECTABLE CCT LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1316.5 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

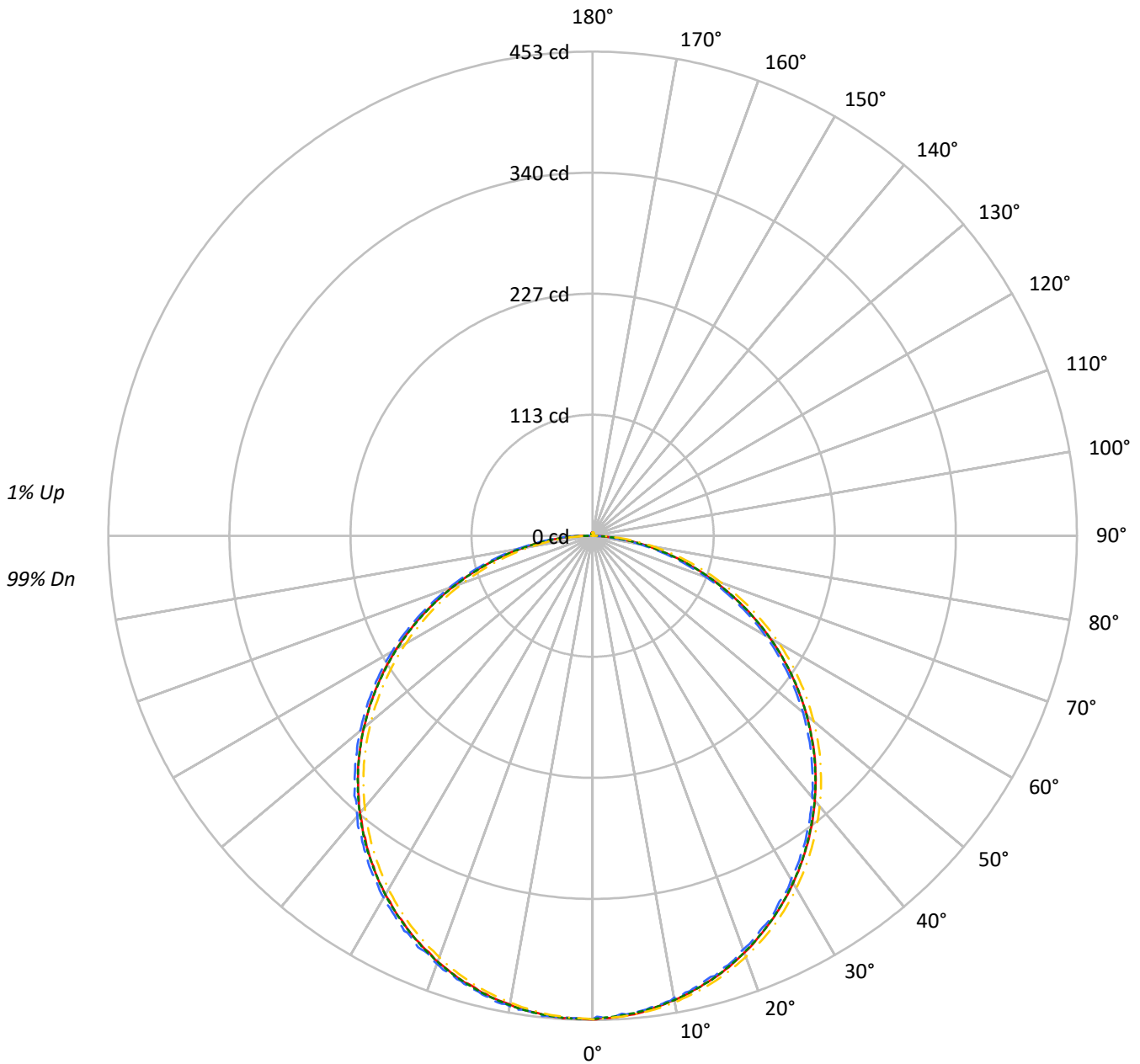
Input Watts (W): 14.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99																			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68																			
3	90	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	54	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	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	24812	24812	24812	24812
5°	24730	24670	24824	24813
10°	24560	24543	24794	24821
15°	24393	24416	24750	24796
20°	24210	24199	24735	24741
25°	23995	23989	24637	24649
30°	23744	23731	24535	24542
35°	23483	23443	24380	24414
40°	23151	23115	24238	24253
45°	22778	22731	24072	24057
50°	22311	22285	23820	23803
55°	21724	21744	23569	23512
60°	21018	21051	23277	23145
65°	20119	20132	22791	22700
70°	18929	18962	22215	22151
75°	17474	17495	21647	21520
80°	15280	15374	21152	20994
85°	11448	11951	21952	21386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	3.2
10°-20°	122.3	9.3
20°-30°	185.3	14.1
30°-40°	223.7	17.0
40°-50°	232.8	17.7
50°-60°	211.6	16.1
60°-70°	163.4	12.4
70°-80°	97.5	7.4
80°-90°	30.1	2.3
90°-100°	0.8	0.1
100°-110°	0.6	0.0
110°-120°	0.9	0.1
120°-130°	1.0	0.1
130°-140°	1.0	0.1
140°-150°	1.0	0.1
150°-160°	1.0	0.1
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	350.3	26.6
0°-40°	574.0	43.6
0°-60°	1018.3	77.4
0°-90°	1309.3	99.5
90°-120°	2.4	0.2
90°-150°	5.4	0.4
90°-180°	7.0	0.5
0°-180°	1316.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	449	448	451	451	449	43
15°	430	430	436	437	430	121
25°	397	397	407	408	397	183
35°	351	350	364	365	351	219
45°	294	293	310	310	294	226
55°	227	228	247	246	227	203
65°	155	155	176	175	155	153
75°	82	83	102	102	82	87
85°	18	19	35	34	18	21
90°	1	0	8	6	1	1
95°	0	0	0	0	0	0
105°	1	1	1	0	1	1
115°	1	1	1	1	1	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	2	2	2	1	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	2	2	2	2	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°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
0.5°	452.5	451.9	449.9	452.3	451.6	451.5	451.9	452.2	452.4	451.7	452.5
1°	451.3	451.6	450.4	451.6	451.4	451.6	451.7	452.0	452.3	451.7	451.8
1.5°	451.6	451.1	451.9	451.3	450.9	451.0	451.8	452.0	451.9	452.3	452.3
2°	451.5	450.5	450.2	452.5	450.7	450.9	451.5	451.7	452.0	452.4	451.6
2.5°	451.1	450.6	450.8	451.3	450.4	450.7	451.1	451.7	451.9	452.0	451.9
3°	450.7	449.9	449.3	451.0	450.0	450.3	450.8	451.4	451.6	451.8	451.5
3.5°	450.3	449.2	448.1	450.2	449.5	449.8	450.7	451.3	452.2	451.3	451.5
4°	450.0	448.6	449.0	450.0	449.3	449.5	450.2	450.9	451.3	451.8	451.9
4.5°	449.5	447.9	448.4	448.1	448.6	449.1	449.8	450.7	451.7	451.0	451.4
5°	449.4	448.2	448.4	448.7	448.3	449.0	449.4	450.3	451.1	451.0	451.3
5.5°	448.8	447.5	447.1	447.4	447.6	448.2	448.9	449.9	451.3	450.6	451.2
6°	448.0	446.6	446.5	446.7	447.2	447.5	448.3	449.5	450.5	450.4	452.0
6.5°	447.3	446.3	446.1	445.1	446.5	446.9	448.0	449.1	449.6	450.4	450.3
7°	445.8	445.7	444.8	444.3	445.8	446.3	447.4	448.5	449.3	449.9	449.9
7.5°	445.1	444.9	444.1	444.2	445.2	445.8	447.0	448.0	448.9	449.6	449.1
8°	444.5	443.7	443.3	444.6	444.5	445.0	446.2	447.2	448.6	449.1	448.3
8.5°	443.7	443.0	442.8	443.0	443.6	444.3	445.7	446.6	447.8	448.3	448.3
9°	442.8	442.2	441.6	442.9	442.6	443.3	444.7	446.0	447.3	447.1	448.8
9.5°	441.7	441.3	441.0	440.7	441.8	442.5	444.1	445.3	446.5	446.3	448.2
10°	441.2	440.2	439.0	439.5	440.9	441.5	443.1	444.5	445.4	446.1	447.0
10.5°	440.3	439.4	438.0	439.4	440.0	440.6	442.4	443.6	444.5	445.2	445.5
11°	439.0	438.3	437.7	438.7	439.0	439.7	441.2	443.0	444.0	444.7	446.0
11.5°	438.1	436.9	435.9	437.8	438.0	438.8	440.3	442.0	443.5	444.1	445.4
12°	437.3	436.1	435.8	436.6	436.8	437.7	439.3	441.1	442.6	443.8	444.7
12.5°	435.6	435.2	434.1	435.4	435.8	436.9	438.5	440.1	442.0	443.1	442.3
13°	434.8	434.2	432.8	432.8	434.7	435.9	437.4	439.1	440.3	441.3	442.4
13.5°	433.7	432.7	431.3	431.7	433.6	434.6	436.3	437.8	439.8	440.7	441.5
14°	432.1	431.6	429.9	431.2	432.3	433.6	435.3	437.0	438.8	440.2	439.9
14.5°	431.1	430.5	428.5	429.6	431.2	432.2	434.1	436.0	437.2	438.3	439.1
15°	429.8	429.0	427.1	428.2	430.2	431.1	433.0	435.0	436.1	437.5	438.3
15.5°	428.7	427.8	427.4	426.7	428.5	429.9	431.8	433.7	435.1	437.2	436.8
16°	427.5	425.9	425.7	426.0	427.2	428.6	430.6	432.7	434.8	436.1	436.2
16.5°	426.2	424.3	423.6	424.6	425.8	427.1	429.4	431.3	433.3	434.1	434.4
17°	424.3	423.1	422.1	423.4	424.2	425.8	427.9	430.2	432.2	432.4	433.9
17.5°	423.4	421.9	421.2	421.6	422.6	424.3	426.5	428.7	430.6	431.6	432.1
18°	421.6	420.5	419.6	420.2	421.2	423.1	425.0	427.6	429.6	430.5	431.5
18.5°	419.9	418.2	418.1	418.3	419.6	421.4	423.6	425.9	428.0	429.0	430.0
19°	418.2	416.6	415.9	415.3	418.1	419.8	422.1	424.6	426.5	427.9	429.4
19.5°	416.7	415.0	413.2	414.3	416.5	418.1	420.7	423.0	425.1	427.0	427.6
20°	415.0	413.6	412.0	413.4	414.8	416.7	419.2	421.6	424.0	425.6	426.0
20.5°	413.5	412.1	410.4	411.3	413.1	415.2	417.6	420.1	422.5	423.8	424.7
21°	411.9	410.6	409.3	409.4	411.6	413.6	415.9	418.6	420.3	421.9	422.3



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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°	406.1	404.7	403.4	403.4	406.1	408.2	410.9	413.6	416.1	418.1	418.9
23°	404.5	403.4	401.1	401.8	404.2	406.5	409.1	411.9	414.0	416.2	418.2
23.5°	402.4	401.4	399.4	400.1	402.3	404.5	407.3	410.2	412.7	414.7	415.8
24°	400.4	398.9	398.2	397.7	400.5	402.7	405.5	408.4	411.0	413.2	413.7
24.5°	398.5	396.6	396.5	395.9	398.5	400.8	403.7	406.6	409.1	411.8	411.5
25°	396.7	394.6	394.5	393.7	396.6	398.9	401.8	404.8	407.3	409.5	409.8
25.5°	394.7	392.4	392.5	392.0	394.6	396.8	400.1	403.0	405.6	408.1	409.6
26°	392.5	390.5	389.9	389.7	392.6	395.0	398.0	401.1	403.0	406.2	406.9
26.5°	390.7	388.4	387.1	388.2	390.2	392.7	395.9	398.9	401.0	403.3	405.3
27°	388.2	386.4	384.6	386.0	388.4	390.9	394.0	397.2	400.1	401.6	403.5
27.5°	386.3	384.1	382.7	383.5	386.0	388.7	391.8	395.1	398.0	399.8	400.8
28°	384.0	381.9	380.9	381.4	384.0	386.6	389.7	393.1	395.9	398.5	398.9
28.5°	382.1	379.7	379.2	378.5	381.6	384.2	387.5	391.0	393.6	396.2	396.8
29°	379.8	377.4	377.0	376.5	379.5	382.2	385.6	388.7	391.2	394.2	395.2
29.5°	377.5	375.2	374.3	374.2	377.2	379.7	383.2	386.5	389.6	392.0	393.0
30°	375.1	372.9	371.4	372.2	374.9	377.5	381.0	384.4	387.6	390.0	390.9
30.5°	372.8	370.6	369.0	370.0	372.5	375.1	378.7	382.2	385.3	387.3	389.2
31°	370.4	368.1	366.8	367.6	370.3	372.7	376.3	380.1	383.1	385.4	386.9
31.5°	368.4	365.8	364.4	365.1	367.8	370.2	374.0	377.7	381.1	382.8	384.1
32°	365.6	363.4	362.4	362.8	365.4	368.0	371.9	375.6	379.0	381.0	381.7
32.5°	363.3	361.1	360.0	360.6	363.1	365.5	369.3	373.1	376.5	378.2	379.0
33°	360.9	358.6	356.9	358.3	360.6	363.2	367.0	370.8	374.2	376.6	377.7
33.5°	358.3	356.2	354.4	355.2	358.0	360.7	364.5	368.2	371.1	373.8	375.6
34°	355.8	353.5	352.2	352.6	355.4	358.3	362.1	365.9	369.5	372.0	373.4
34.5°	353.3	351.0	349.9	349.9	352.8	355.8	359.5	363.4	366.9	369.3	370.8
35°	350.9	348.3	347.3	347.5	350.3	353.1	357.0	361.1	364.3	366.5	367.9
35.5°	348.3	345.8	344.3	344.7	347.6	350.6	354.3	358.8	361.8	364.3	365.0
36°	345.6	343.0	341.5	342.1	345.1	348.0	351.9	356.1	359.5	362.1	363.3
36.5°	342.8	340.4	339.3	339.4	342.2	345.4	349.3	353.6	356.4	360.0	360.4
37°	340.2	337.4	336.6	336.5	339.6	342.7	346.7	350.9	353.7	357.5	358.2
37.5°	337.5	334.7	333.8	333.6	336.8	340.0	344.0	348.5	351.9	354.5	355.1
38°	334.7	332.2	330.7	331.2	334.2	337.3	341.0	345.6	349.5	352.2	353.2
38.5°	331.9	329.6	328.1	328.4	331.3	334.5	338.6	342.9	346.2	348.5	351.2
39°	329.1	326.6	325.2	325.8	328.7	331.8	335.8	340.6	343.5	346.5	349.1
39.5°	326.3	323.6	323.4	323.0	325.9	329.0	333.1	337.5	341.0	343.7	345.6
40°	323.5	320.9	319.7	320.1	323.0	326.3	330.4	334.7	338.7	340.8	342.5
40.5°	320.5	318.0	316.1	317.5	320.2	323.3	327.7	332.0	335.9	338.5	339.9
41°	317.7	315.2	314.1	314.7	317.4	320.7	324.9	329.2	333.2	335.9	337.0
41.5°	314.8	312.2	310.6	311.5	314.3	317.7	322.0	326.2	329.9	333.1	333.2
42°	311.8	309.1	307.6	308.2	311.3	314.8	319.1	323.6	327.1	330.4	331.3
42.5°	309.0	306.2	304.5	305.2	308.4	311.9	316.2	320.7	324.6	327.2	329.9
43°	306.0	303.1	301.3	302.4	305.4	308.9	313.3	318.2	321.8	324.7	326.5
43.5°	302.8	299.9	298.2	299.1	302.4	305.9	310.4	315.0	318.6	321.9	323.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	293.8	290.4	289.2	289.6	293.2	296.8	301.3	306.1	310.5	313.2	314.5
45.5°	290.7	287.2	286.1	286.5	290.2	293.7	298.3	303.2	307.5	310.2	311.5
46°	287.5	284.2	282.9	283.8	287.1	290.7	295.5	300.1	304.4	307.4	308.9
46.5°	284.3	281.3	279.9	280.5	283.9	287.5	292.4	297.2	301.5	304.3	305.4
47°	281.1	278.0	276.4	276.5	280.6	284.4	289.0	294.1	297.9	301.4	302.2
47.5°	277.6	274.8	273.0	273.1	277.6	281.2	285.9	290.9	295.1	298.4	298.9
48°	274.7	271.4	269.9	270.2	274.2	277.9	282.7	287.9	291.7	295.2	296.5
48.5°	271.3	268.3	266.4	266.8	270.9	274.8	279.6	284.9	288.7	292.0	293.6
49°	268.1	265.0	263.2	263.9	267.7	271.4	276.4	281.4	285.9	289.0	289.9
49.5°	264.8	261.9	260.0	260.5	264.5	268.3	273.1	278.2	282.4	285.6	286.6
50°	261.6	258.4	256.7	257.2	261.3	265.1	269.9	275.2	279.3	282.3	283.6
50.5°	258.3	254.8	253.2	253.8	257.9	261.9	266.4	271.8	275.7	278.7	280.5
51°	254.9	251.5	249.5	250.2	254.7	258.5	263.3	268.5	272.8	275.4	277.4
51.5°	251.4	248.1	246.1	246.9	251.3	255.2	260.0	265.1	269.5	272.9	273.8
52°	248.0	244.8	242.9	243.8	248.0	251.9	256.8	262.1	266.3	269.4	270.9
52.5°	244.6	241.2	239.8	240.3	244.6	248.4	253.4	258.6	263.1	266.3	267.7
53°	241.0	237.8	236.3	236.9	241.2	245.3	250.0	255.3	260.1	263.0	264.2
53.5°	237.6	234.3	232.7	233.2	237.8	241.8	246.7	252.0	256.4	259.5	261.2
54°	234.2	230.7	229.1	230.1	234.4	238.3	243.4	248.4	253.0	256.1	257.5
54.5°	230.8	227.4	225.9	226.9	230.8	234.9	239.9	245.2	249.9	253.5	254.4
55°	227.3	223.9	222.7	223.4	227.5	231.5	236.6	241.9	246.6	250.1	251.2
55.5°	223.7	220.4	219.3	219.8	223.9	228.1	232.9	238.4	242.9	246.5	247.2
56°	220.3	216.9	215.2	216.1	220.6	224.6	229.6	235.3	239.6	243.2	244.4
56.5°	216.7	213.5	212.1	212.6	217.0	221.2	226.2	231.5	236.1	240.2	240.8
57°	213.1	209.7	208.2	208.8	213.4	217.8	222.9	228.4	233.0	236.3	237.6
57.5°	209.6	206.0	204.6	205.1	210.0	214.1	219.1	224.9	229.6	232.5	234.2
58°	206.0	202.7	201.0	201.5	206.4	210.6	215.8	221.3	226.3	228.8	230.6
58.5°	202.6	199.2	197.5	197.8	202.7	206.9	212.2	217.8	222.1	225.9	227.3
59°	198.9	195.5	193.6	194.3	199.2	203.4	208.9	214.3	219.0	222.5	223.5
59.5°	195.3	191.8	189.9	190.8	195.4	199.7	205.2	210.9	215.6	218.9	220.1
60°	191.7	188.0	186.2	187.0	192.0	196.2	201.6	207.2	212.3	215.3	216.3
60.5°	188.0	184.5	182.8	183.4	188.2	192.7	197.9	203.5	208.4	211.6	213.1
61°	184.3	180.8	179.1	179.9	184.6	188.9	194.3	200.0	204.7	207.7	209.3
61.5°	180.8	177.2	175.6	176.4	180.9	185.3	190.8	196.5	201.1	204.1	205.8
62°	177.0	173.5	171.7	172.6	177.3	181.7	187.2	192.7	197.6	200.6	202.5
62.5°	173.3	169.9	168.2	168.9	173.5	177.9	183.4	189.2	194.1	197.1	198.6
63°	169.7	166.2	164.5	165.2	169.9	174.2	179.8	185.6	190.3	193.3	194.8
63.5°	166.1	162.4	160.8	161.4	166.1	170.6	176.2	181.9	186.8	189.8	191.5
64°	162.4	158.9	157.1	158.0	162.5	166.8	172.4	178.3	183.1	186.0	187.8
64.5°	158.9	155.2	153.3	154.1	158.7	163.0	168.7	174.4	179.3	182.7	183.9
65°	155.1	151.6	149.7	150.5	155.2	159.6	164.9	170.7	175.7	178.8	180.2
65.5°	151.4	147.8	146.0	146.8	151.5	156.0	161.3	166.9	171.7	175.1	176.5
66°	147.6	144.0	142.4	143.0	147.6	152.1	157.7	163.1	168.2	171.0	172.9





TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	136.6	133.1	131.3	131.9	136.4	141.1	146.5	152.2	157.0	160.4	161.6
68°	132.9	129.3	127.5	128.1	132.9	137.4	142.8	148.4	153.4	156.5	158.1
68.5°	129.4	125.8	124.0	124.6	129.2	133.6	139.2	144.6	149.6	153.1	154.1
69°	125.5	122.0	120.6	121.1	125.7	130.0	135.6	141.0	146.1	149.1	150.6
69.5°	121.8	118.5	116.7	117.4	121.9	126.4	131.9	137.4	142.3	145.7	147.1
70°	118.1	114.7	113.1	113.7	118.3	122.8	128.1	133.6	138.6	142.0	143.2
70.5°	114.7	111.0	109.5	110.0	114.8	119.2	124.5	130.1	134.8	138.2	139.3
71°	110.9	107.3	105.9	106.3	111.1	115.5	120.9	126.8	131.1	134.5	135.9
71.5°	107.5	103.8	102.2	102.7	107.5	111.9	117.3	122.7	127.5	130.8	132.2
72°	103.7	100.3	98.5	99.3	103.8	108.3	113.6	119.2	124.0	127.0	128.9
72.5°	100.1	96.7	94.8	95.7	100.3	104.6	109.9	115.6	120.2	123.8	124.8
73°	96.4	93.0	91.4	92.0	96.7	100.9	106.3	111.9	116.4	120.1	121.2
73.5°	93.0	89.6	88.0	88.5	93.1	97.4	102.8	108.3	112.8	116.2	117.6
74°	89.5	86.1	84.2	84.9	89.7	93.7	99.1	104.7	109.2	112.6	113.8
74.5°	86.0	82.5	80.7	81.5	86.1	90.3	95.7	101.2	105.6	109.0	110.2
75°	82.5	78.9	77.1	78.0	82.6	86.9	92.1	97.4	102.2	105.5	106.5
75.5°	78.9	75.4	73.6	74.4	78.9	83.4	88.6	93.9	98.4	101.7	103.1
76°	75.3	71.9	70.3	70.7	75.5	79.8	85.0	90.5	94.9	98.0	99.5
76.5°	71.8	68.3	66.7	67.3	72.0	76.3	81.5	86.8	91.4	94.3	95.5
77°	68.3	64.9	63.3	63.9	68.5	72.9	78.1	83.4	87.9	91.1	92.1
77.5°	65.0	61.5	60.0	60.6	65.2	69.6	74.6	79.9	84.5	87.6	88.9
78°	61.6	58.2	56.7	57.3	61.9	66.1	71.3	76.4	80.8	84.1	85.3
78.5°	58.2	55.0	53.4	54.0	58.5	62.7	67.7	72.9	77.4	80.5	81.9
79°	55.0	51.6	50.0	50.7	55.3	59.4	64.4	69.4	73.9	77.0	78.1
79.5°	51.7	48.3	46.6	47.4	52.0	56.2	61.1	66.1	70.5	73.5	74.8
80°	48.4	45.1	43.6	44.1	48.7	52.9	57.6	62.7	67.0	70.0	71.4
80.5°	45.1	42.0	40.5	41.0	45.6	49.6	54.4	59.4	63.6	66.7	67.6
81°	41.9	38.9	37.3	37.9	42.4	46.5	51.2	56.2	60.4	63.3	64.5
81.5°	38.7	35.7	34.1	34.8	39.3	43.2	48.0	52.9	57.0	59.9	61.2
82°	35.7	32.6	31.2	31.6	36.3	40.2	44.9	49.6	53.8	56.6	57.8
82.5°	32.5	29.6	28.2	28.6	33.2	37.1	41.5	46.5	50.7	53.4	54.6
83°	29.5	26.7	25.1	25.6	30.2	34.1	38.9	43.3	47.4	50.2	51.4
83.5°	26.6	23.7	22.5	22.8	27.3	31.1	35.6	40.2	44.3	46.9	48.2
84°	23.6	21.0	19.5	20.0	24.4	28.0	32.5	37.1	41.0	43.7	44.9
84.5°	20.9	18.3	16.9	17.3	21.8	25.3	29.7	34.1	38.0	40.8	41.9
85°	18.2	15.5	14.1	14.5	19.0	22.5	26.7	31.2	34.9	37.7	38.8
85.5°	15.5	13.0	11.7	11.9	16.3	19.8	23.9	28.2	32.0	34.8	35.6
86°	12.8	10.4	9.2	9.6	13.5	17.1	21.1	25.3	29.0	31.7	32.6
86.5°	10.4	8.0	6.8	7.0	11.0	14.2	18.4	22.5	26.1	28.7	29.7
87°	8.1	5.9	4.5	4.8	8.4	11.6	15.7	19.8	23.3	25.9	26.9
87.5°	6.0	3.2	2.3	2.5	6.0	9.2	13.0	17.1	20.6	23.0	23.9
88°	3.3	1.4	0.8	1.0	3.7	6.8	10.4	14.4	17.9	20.4	21.4
88.5°	1.4	0.7	0.6	0.6	1.5	4.4	7.9	11.7	15.1	17.6	18.6



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.6	0.5	0.5	0.5	0.4	0.5	0.9	4.5	7.6	9.8	10.7
90.5°	0.6	0.5	0.5	0.5	0.3	0.5	0.5	2.0	5.1	7.2	8.1
91°	0.5	0.5	0.5	0.5	0.3	0.4	0.5	0.5	2.7	4.8	5.8
91.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.8	2.3	3.3
92°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.4	0.6	0.9
92.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.5	0.4	0.4
93°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.3
93.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.3
94°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
94.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.3	0.4
95°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
95.5°	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.3	0.4
96°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.3	0.4
96.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
97°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
97.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
98°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
98.5°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4
99°	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5
99.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.4	0.5
100.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5
101°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.4	0.5
101.5°	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5
102°	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5
103°	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.6
103.5°	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5
104°	0.7	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5
104.5°	0.6	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5
105°	0.6	0.5	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.5	0.5
105.5°	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.5	0.5
106°	0.7	0.6	0.7	0.5	0.6	0.6	0.7	0.7	0.7	0.5	0.5
106.5°	0.7	0.5	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.5	0.5
107°	0.7	0.7	0.7	0.9	0.6	0.6	0.6	0.6	0.7	0.5	0.5
107.5°	0.7	0.8	0.8	0.9	0.6	0.6	0.7	0.6	0.7	0.5	0.6
108°	0.8	0.8	0.8	0.9	0.6	0.7	0.7	0.7	0.7	0.5	0.6
108.5°	0.8	0.8	0.8	1.1	0.6	0.7	0.7	0.7	0.7	0.5	0.6
109°	0.8	0.9	0.8	1.1	0.6	0.7	0.7	0.7	0.7	0.5	0.5
109.5°	0.8	1.0	0.9	1.1	0.7	0.7	0.7	0.7	0.7	0.5	0.5
110°	0.9	1.0	0.9	1.1	0.7	0.7	0.8	0.7	0.7	0.5	0.7
110.5°	0.9	0.9	0.9	1.2	0.7	0.7	0.8	0.7	0.7	0.5	0.7
111°	0.9	1.0	0.9	1.2	0.7	0.7	0.8	0.7	0.7	0.5	0.7



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.0	1.1	0.9	1.1	0.7	0.8	0.8	0.8	0.8	0.7	0.7
113°	1.0	1.0	1.0	1.3	0.8	0.9	0.9	0.8	0.8	0.7	0.7
113.5°	0.9	1.1	1.1	1.3	0.8	0.9	0.9	0.8	0.8	0.7	0.9
114°	0.9	1.1	1.1	1.2	0.7	0.9	1.0	0.8	0.9	0.7	0.9
114.5°	0.9	1.1	1.0	1.2	0.7	0.9	1.0	0.8	0.9	0.7	0.9
115°	0.9	1.1	1.0	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9
115.5°	0.9	1.1	1.0	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9
116°	0.9	1.1	1.0	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9
116.5°	1.0	1.1	1.0	1.2	0.9	0.9	0.9	0.9	1.0	0.9	0.9
117°	1.0	1.1	1.0	1.2	0.9	0.9	0.9	0.9	1.0	0.9	0.9
117.5°	1.1	1.1	1.0	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9
118°	1.1	1.1	1.0	1.2	0.9	1.0	1.0	0.9	0.9	0.9	1.0
118.5°	1.1	1.1	1.0	1.2	1.0	1.0	1.1	0.9	0.9	0.9	1.0
119°	1.1	1.1	1.0	1.2	0.9	1.0	1.1	0.9	0.9	0.9	1.0
119.5°	1.1	1.1	1.0	1.2	0.9	1.1	1.1	0.9	1.0	0.9	1.0
120°	1.1	1.1	1.0	1.2	0.9	1.0	1.1	0.9	1.0	0.9	1.0
120.5°	1.1	1.1	1.0	1.2	0.9	1.0	1.1	0.9	1.1	0.9	1.1
121°	1.1	1.1	1.0	1.2	0.9	1.0	1.2	1.0	1.1	0.9	1.1
121.5°	1.1	1.1	1.0	1.2	0.9	1.0	1.2	1.0	1.1	0.9	1.1
122°	1.1	1.1	1.0	1.2	1.1	1.0	1.1	1.0	1.1	1.0	1.1
122.5°	1.1	1.1	1.0	1.2	1.1	1.0	1.1	1.1	1.1	0.9	1.1
123°	1.1	1.1	1.0	1.2	1.1	1.0	1.2	1.1	1.1	0.9	1.2
123.5°	1.1	1.1	1.0	1.2	1.1	1.0	1.2	1.1	1.2	1.1	1.2
124°	1.1	1.1	1.0	1.2	1.2	1.0	1.2	1.1	1.2	1.0	1.1
124.5°	1.1	1.1	1.0	1.2	1.1	1.0	1.3	1.1	1.1	0.9	1.1
125°	1.1	1.1	1.0	1.2	1.1	1.0	1.3	1.1	1.1	0.9	1.1
125.5°	1.1	1.1	1.0	1.2	1.3	1.0	1.3	1.2	1.1	0.9	1.3
126°	1.1	1.1	1.0	1.2	1.3	1.0	1.3	1.1	1.1	0.9	1.3
126.5°	1.1	1.1	1.0	1.2	1.2	1.0	1.3	1.2	1.2	0.9	1.2
127°	1.1	1.1	1.0	1.2	1.2	1.1	1.3	1.1	1.2	0.9	1.2
127.5°	1.1	1.1	1.0	1.2	1.2	1.1	1.3	1.1	1.2	1.0	1.2
128°	1.1	1.1	1.0	1.2	1.2	1.1	1.3	1.1	1.3	1.0	1.2
128.5°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.1	1.3	1.1	1.2
129°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.2	1.3	1.1	1.3
129.5°	1.1	1.1	1.0	1.2	1.3	1.2	1.3	1.1	1.3	1.1	1.2
130°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.3	1.3	1.1	1.3
130.5°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.3	1.3	1.1	1.3
131°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.2	1.3	1.1	1.3
131.5°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.3	1.3	1.1	1.3
132°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.2	1.3	1.3	1.4
132.5°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.2	1.3	1.3	1.4
133°	1.1	1.1	1.0	1.2	1.3	1.1	1.3	1.3	1.3	1.3	1.3
133.5°	1.2	1.1	1.0	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 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	1.0	1.2	1.3	1.2	1.4	1.3	1.4	1.3	1.3
135.5°	1.1	1.1	1.0	1.2	1.4	1.2	1.4	1.3	1.4	1.3	1.3
136°	1.1	1.2	1.1	1.2	1.4	1.3	1.5	1.3	1.4	1.4	1.3
136.5°	1.1	1.1	1.1	1.2	1.4	1.3	1.4	1.3	1.4	1.3	1.4
137°	1.1	1.3	1.2	1.2	1.5	1.3	1.4	1.3	1.4	1.3	1.4
137.5°	1.1	1.3	1.1	1.2	1.4	1.3	1.4	1.3	1.4	1.3	1.4
138°	1.1	1.3	1.3	1.2	1.5	1.3	1.5	1.4	1.5	1.4	1.5
138.5°	1.1	1.3	1.3	1.2	1.5	1.3	1.5	1.4	1.5	1.4	1.5
139°	1.2	1.3	1.2	1.2	1.5	1.4	1.4	1.4	1.5	1.4	1.5
139.5°	1.1	1.3	1.2	1.2	1.5	1.5	1.5	1.4	1.5	1.4	1.4
140°	1.1	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
140.5°	1.3	1.3	1.3	1.2	1.5	1.4	1.5	1.5	1.5	1.4	1.5
141°	1.3	1.5	1.3	1.3	1.6	1.4	1.6	1.5	1.5	1.4	1.5
141.5°	1.3	1.5	1.3	1.3	1.5	1.5	1.6	1.5	1.5	1.4	1.5
142°	1.3	1.7	1.3	1.3	1.6	1.5	1.5	1.5	1.7	1.5	1.6
142.5°	1.3	1.7	1.3	1.4	1.6	1.5	1.5	1.5	1.7	1.4	1.6
143°	1.3	1.8	1.3	1.4	1.6	1.5	1.5	1.5	1.6	1.4	1.6
143.5°	1.4	1.9	1.4	1.3	1.6	1.5	1.7	1.5	1.6	1.5	1.6
144°	1.4	1.9	1.5	1.3	1.6	1.5	1.7	1.5	1.6	1.6	1.6
144.5°	1.4	1.9	1.5	1.5	1.8	1.5	1.6	1.6	1.6	1.7	1.7
145°	1.4	1.9	1.6	1.5	1.8	1.5	1.6	1.7	1.7	1.7	1.6
145.5°	1.4	1.9	1.7	1.6	1.8	1.5	1.6	1.7	1.7	1.6	1.7
146°	1.5	2.0	1.8	1.7	1.8	1.5	1.7	1.6	1.7	1.6	1.7
146.5°	1.6	2.1	1.9	1.9	1.8	1.5	1.7	1.6	1.8	1.6	1.7
147°	1.7	2.1	2.0	1.9	1.8	1.6	1.7	1.7	1.7	1.8	1.8
147.5°	1.8	2.0	1.9	2.0	1.8	1.6	1.7	1.7	1.7	1.8	1.8
148°	1.9	2.0	1.9	2.0	1.9	1.7	1.7	1.7	1.9	1.8	1.8
148.5°	1.9	2.0	1.9	2.1	1.9	1.7	1.7	1.7	1.9	1.8	1.8
149°	1.9	2.0	2.0	2.1	1.9	1.7	1.7	1.7	1.9	1.9	1.8
149.5°	2.0	2.0	1.9	2.1	1.9	1.7	1.8	1.7	1.9	1.9	1.9
150°	2.0	2.0	1.9	2.1	1.9	1.8	1.7	1.8	1.9	1.9	1.9
150.5°	1.9	2.0	2.1	2.1	1.9	1.8	1.7	1.9	2.0	1.9	1.9
151°	1.9	2.0	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9
151.5°	1.9	2.0	2.0	2.1	1.9	1.9	1.8	1.9	2.0	1.9	1.9
152°	1.9	2.0	2.0	2.1	1.9	1.9	1.8	1.9	2.1	2.1	1.9
152.5°	1.9	2.0	2.0	2.1	1.9	1.9	1.9	1.9	2.0	2.1	2.0
153°	1.9	2.0	2.0	2.1	2.0	1.9	1.9	2.0	2.1	2.0	2.0
153.5°	1.9	2.0	2.0	2.1	2.1	1.9	1.9	2.1	2.1	2.1	2.0
154°	1.9	2.0	2.0	2.1	2.0	1.9	1.9	2.1	2.2	2.1	2.0
154.5°	1.9	2.0	2.0	2.1	2.0	2.0	1.9	2.1	2.2	2.1	2.1
155°	1.9	2.0	2.0	2.1	2.1	2.0	2.0	2.2	2.2	2.2	2.1
155.5°	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.3	2.3	2.1
156°	1.9	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.3	2.2	2.2



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	452.6	452.6	452.6	452.6	452.6	452.6
0.5°	453.1	452.0	451.7	451.9	451.9	452.5
1°	453.6	452.1	451.7	451.8	451.8	451.3
1.5°	451.7	452.2	451.8	451.7	451.8	451.6
2°	453.0	452.1	451.5	451.5	451.4	451.5
2.5°	452.2	452.1	451.4	451.3	451.0	451.1
3°	451.0	451.9	451.3	451.2	451.0	450.7
3.5°	452.4	451.9	451.1	450.7	450.8	450.3
4°	451.7	451.5	450.8	450.6	450.4	450.0
4.5°	450.2	451.4	450.4	450.3	449.9	449.5
5°	450.0	450.9	450.2	450.1	449.4	449.4
5.5°	451.1	450.8	449.8	449.5	448.9	448.8
6°	451.5	450.3	449.4	449.0	448.1	448.0
6.5°	449.0	450.1	449.0	448.5	447.6	447.3
7°	451.2	449.5	448.5	447.7	447.0	445.8
7.5°	451.5	449.0	447.9	446.9	446.5	445.1
8°	448.8	448.5	447.4	446.4	445.6	444.5
8.5°	448.5	448.0	446.9	445.9	445.1	443.7
9°	448.8	447.4	446.2	445.0	443.9	442.8
9.5°	447.8	446.8	445.5	444.3	443.3	441.7
10°	446.3	445.9	445.0	443.5	442.2	441.2
10.5°	445.8	445.2	443.7	442.8	441.7	440.3
11°	446.9	444.5	443.2	441.8	440.5	439.0
11.5°	445.2	443.8	442.1	441.0	439.5	438.1
12°	443.8	443.0	441.4	440.0	438.5	437.3
12.5°	443.6	442.0	440.3	439.0	437.6	435.6
13°	441.6	441.2	439.3	438.0	436.3	434.8
13.5°	441.2	440.3	438.1	437.0	435.3	433.7
14°	440.7	439.1	437.2	435.9	434.0	432.1
14.5°	440.6	438.0	436.1	435.0	433.0	431.1
15°	438.9	436.9	435.1	433.8	431.9	429.8
15.5°	436.9	435.7	434.0	432.4	430.6	428.7
16°	435.8	434.6	432.8	431.0	429.1	427.5
16.5°	435.2	433.6	431.6	429.9	427.7	426.2
17°	434.3	432.2	430.5	428.5	426.3	424.3
17.5°	433.4	431.1	429.1	427.1	425.1	423.4
18°	431.6	429.6	427.8	425.8	423.5	421.6
18.5°	430.2	428.5	426.2	424.3	422.1	419.9
19°	428.7	426.9	424.7	422.9	420.5	418.2
19.5°	427.5	425.8	423.4	421.4	418.9	416.7
20°	425.8	424.1	421.9	419.6	417.3	415.0
20.5°	424.9	422.8	420.1	417.9	415.6	413.5
21°	423.5	421.0	418.7	416.1	414.2	411.9



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	418.4	416.5	413.8	411.3	408.5	406.1
23°	417.1	414.5	412.3	409.7	406.7	404.5
23.5°	415.5	413.1	410.5	407.8	405.1	402.4
24°	414.7	411.2	408.9	406.0	403.2	400.4
24.5°	412.1	409.4	406.8	404.3	401.4	398.5
25°	410.1	407.5	405.1	402.5	399.3	396.7
25.5°	408.8	405.8	403.0	400.5	397.5	394.7
26°	407.2	403.8	401.4	398.4	395.4	392.5
26.5°	405.0	402.1	399.5	396.6	393.5	390.7
27°	402.9	400.1	397.5	394.3	391.4	388.2
27.5°	400.1	398.2	395.4	392.4	389.1	386.3
28°	397.7	396.1	393.4	390.3	387.0	384.0
28.5°	395.9	394.1	391.4	388.3	384.9	382.1
29°	394.7	392.0	389.2	386.0	382.8	379.8
29.5°	393.2	390.1	387.2	384.0	380.5	377.5
30°	391.7	387.7	385.1	381.6	378.2	375.1
30.5°	388.5	385.7	382.9	379.5	376.0	372.8
31°	386.5	383.3	380.6	377.0	373.7	370.4
31.5°	384.4	381.2	378.4	375.0	371.4	368.4
32°	381.2	378.8	376.0	372.5	368.9	365.6
32.5°	380.2	376.6	373.6	370.3	366.5	363.3
33°	377.6	374.2	371.3	367.7	364.2	360.9
33.5°	374.8	372.0	368.9	365.4	362.0	358.3
34°	372.7	369.4	366.7	363.0	359.4	355.8
34.5°	370.4	367.2	364.3	360.6	356.8	353.3
35°	368.1	364.8	361.7	358.0	354.4	350.9
35.5°	365.9	362.6	359.2	355.6	351.7	348.3
36°	364.0	360.0	356.8	353.1	349.1	345.6
36.5°	361.3	357.5	354.2	350.3	346.4	342.8
37°	357.9	354.9	351.7	347.7	343.8	340.2
37.5°	355.6	352.3	349.0	345.1	341.1	337.5
38°	352.6	349.5	346.6	342.5	338.3	334.7
38.5°	350.3	347.1	343.6	339.8	335.7	331.9
39°	347.2	344.4	341.0	337.1	332.9	329.1
39.5°	344.0	341.8	338.3	334.4	330.0	326.3
40°	342.0	338.9	335.7	331.5	327.4	323.5
40.5°	339.3	336.3	333.0	328.8	324.5	320.5
41°	335.8	333.6	330.1	326.0	321.7	317.7
41.5°	333.8	330.8	327.2	323.1	318.7	314.8
42°	331.1	327.9	324.5	320.2	315.8	311.8
42.5°	328.7	325.2	321.4	317.3	312.9	309.0
43°	326.0	322.1	318.6	314.4	309.9	306.0
43.5°	322.6	319.1	315.5	311.4	306.9	302.8





TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	313.8	310.3	306.6	302.6	297.8	293.8
45.5°	310.8	307.3	303.6	299.6	294.9	290.7
46°	307.5	304.3	300.5	296.3	291.7	287.5
46.5°	304.3	301.2	297.5	293.2	288.6	284.3
47°	301.7	298.1	294.6	290.0	285.5	281.1
47.5°	298.9	295.0	291.4	286.8	282.3	277.6
48°	296.3	291.9	288.2	283.5	279.1	274.7
48.5°	293.0	288.9	285.2	280.4	275.7	271.3
49°	289.7	285.7	281.9	277.1	272.5	268.1
49.5°	286.6	282.4	278.7	274.0	269.3	264.8
50°	283.6	279.1	275.5	270.6	266.0	261.6
50.5°	280.2	275.9	272.1	267.3	262.7	258.3
51°	276.8	272.6	268.9	264.0	259.3	254.9
51.5°	273.5	269.4	265.6	260.9	256.0	251.4
52°	270.2	266.1	262.4	257.6	252.6	248.0
52.5°	266.8	262.8	259.0	254.1	249.1	244.6
53°	263.9	259.5	255.6	250.8	245.8	241.0
53.5°	260.7	256.0	252.0	247.4	242.3	237.6
54°	257.2	252.7	248.7	244.0	238.8	234.2
54.5°	253.7	249.3	245.3	240.5	235.3	230.8
55°	250.8	246.0	242.0	237.0	231.9	227.3
55.5°	247.5	242.5	238.4	233.5	228.4	223.7
56°	243.9	239.0	235.0	230.0	225.0	220.3
56.5°	240.3	235.5	231.5	226.6	221.5	216.7
57°	236.7	232.0	228.2	223.1	218.0	213.1
57.5°	233.3	228.7	224.5	219.6	214.4	209.6
58°	229.7	225.2	221.4	216.2	210.9	206.0
58.5°	226.1	222.0	217.6	212.7	207.4	202.6
59°	222.6	218.3	214.2	209.0	203.8	198.9
59.5°	219.4	214.8	210.6	205.4	200.1	195.3
60°	216.0	211.1	207.0	201.8	196.6	191.7
60.5°	212.3	207.7	203.4	198.2	193.0	188.0
61°	208.8	204.0	199.8	194.8	189.4	184.3
61.5°	205.3	200.6	196.2	191.1	185.7	180.8
62°	201.8	196.8	192.6	187.4	182.1	177.0
62.5°	198.0	193.3	189.0	183.8	178.2	173.3
63°	194.2	189.6	185.4	180.1	174.7	169.7
63.5°	190.2	186.1	181.8	176.5	171.1	166.1
64°	186.7	182.5	178.1	172.9	167.3	162.4
64.5°	183.0	178.8	174.3	169.3	163.8	158.9
65°	179.3	175.0	170.7	165.5	160.2	155.1
65.5°	175.7	171.3	167.0	161.8	156.5	151.4
66°	171.9	167.6	163.3	158.2	152.8	147.6



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	160.8	156.7	152.5	147.2	141.8	136.6
68°	157.4	153.0	148.6	143.5	138.0	132.9
68.5°	153.7	149.3	144.9	139.8	134.3	129.4
69°	150.2	145.5	141.4	136.0	130.6	125.5
69.5°	146.2	141.8	137.6	132.3	126.9	121.8
70°	142.5	138.2	134.0	128.7	123.3	118.1
70.5°	139.3	134.6	130.3	125.0	119.7	114.7
71°	135.5	130.7	126.6	121.4	116.0	110.9
71.5°	131.5	127.2	123.1	117.7	112.4	107.5
72°	127.3	123.5	119.5	114.1	108.7	103.7
72.5°	124.0	119.8	115.7	110.5	105.1	100.1
73°	120.5	116.2	112.1	106.8	101.4	96.4
73.5°	117.0	112.6	108.4	103.2	97.7	93.0
74°	113.0	109.0	104.9	99.7	94.3	89.5
74.5°	109.3	105.3	101.3	96.2	90.8	86.0
75°	105.9	101.6	97.7	92.5	87.3	82.5
75.5°	102.4	98.2	94.1	89.0	83.8	78.9
76°	98.4	94.5	90.7	85.5	80.2	75.3
76.5°	95.0	91.1	87.1	82.1	76.7	71.8
77°	91.3	87.6	83.5	78.4	73.1	68.3
77.5°	88.1	84.0	80.0	74.9	69.6	65.0
78°	84.6	80.5	76.5	71.5	66.2	61.6
78.5°	80.9	77.0	72.9	68.0	62.9	58.2
79°	77.5	73.4	69.4	64.7	59.4	55.0
79.5°	74.0	69.9	66.2	61.3	56.1	51.7
80°	70.6	66.5	62.5	58.0	52.9	48.4
80.5°	67.2	63.0	59.3	54.6	49.6	45.1
81°	64.0	59.7	56.3	51.4	46.4	41.9
81.5°	60.4	56.6	52.9	48.1	43.2	38.7
82°	57.0	53.3	49.6	44.9	40.0	35.7
82.5°	53.9	50.0	46.0	41.6	36.8	32.5
83°	50.7	46.6	43.4	38.6	33.8	29.5
83.5°	47.5	43.4	39.6	35.4	30.5	26.6
84°	44.3	40.2	36.8	32.3	27.6	23.6
84.5°	41.1	37.1	33.7	29.1	24.6	20.9
85°	38.1	34.0	30.5	26.1	22.0	18.2
85.5°	35.0	31.0	27.6	23.3	19.2	15.5
86°	32.2	27.9	24.7	20.5	16.4	12.8
86.5°	29.2	24.9	21.7	17.8	13.6	10.4
87°	26.1	22.1	19.0	14.9	11.1	8.1
87.5°	23.2	19.3	16.1	12.3	8.7	6.0
88°	20.8	16.6	13.4	9.9	6.6	3.3
88.5°	17.9	13.9	10.9	7.4	4.1	1.4



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	9.9	6.2	3.1	1.0	0.7	0.6
90.5°	7.4	3.6	1.5	0.7	0.6	0.6
91°	5.0	1.7	0.6	0.6	0.6	0.5
91.5°	2.6	0.5	0.6	0.6	0.6	0.5
92°	0.7	0.5	0.3	0.6	0.5	0.5
92.5°	0.4	0.5	0.3	0.5	0.5	0.5
93°	0.4	0.5	0.4	0.5	0.5	0.5
93.5°	0.4	0.5	0.4	0.5	0.5	0.5
94°	0.4	0.5	0.4	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	0.4	0.5	0.5	0.5
95.5°	0.4	0.5	0.4	0.5	0.5	0.5
96°	0.4	0.5	0.4	0.5	0.5	0.5
96.5°	0.4	0.5	0.3	0.5	0.5	0.5
97°	0.4	0.5	0.4	0.5	0.5	0.5
97.5°	0.5	0.5	0.6	0.5	0.5	0.5
98°	0.5	0.5	0.3	0.5	0.5	0.5
98.5°	0.5	0.5	0.4	0.5	0.5	0.5
99°	0.5	0.5	0.7	0.5	0.5	0.5
99.5°	0.5	0.5	0.7	0.5	0.5	0.5
100°	0.5	0.5	0.7	0.5	0.5	0.5
100.5°	0.5	0.5	0.7	0.5	0.5	0.5
101°	0.5	0.5	0.7	0.5	0.5	0.5
101.5°	0.5	0.5	0.7	0.5	0.5	0.5
102°	0.5	0.5	0.7	0.5	0.5	0.5
102.5°	0.5	0.5	0.7	0.5	0.5	0.5
103°	0.5	0.5	0.7	0.5	0.5	0.5
103.5°	0.5	0.5	0.7	0.5	0.5	0.7
104°	0.5	0.5	0.2	0.5	0.5	0.7
104.5°	0.6	0.5	0.5	0.5	0.5	0.6
105°	0.6	0.5	0.5	0.5	0.5	0.6
105.5°	0.6	0.5	0.5	0.5	0.5	0.7
106°	0.6	0.5	0.8	0.6	0.5	0.7
106.5°	0.7	0.5	0.4	0.6	0.5	0.7
107°	0.6	0.5	0.5	0.6	0.6	0.7
107.5°	0.6	0.5	0.6	0.9	0.6	0.7
108°	0.7	0.5	0.9	0.9	0.6	0.8
108.5°	0.7	0.5	0.8	0.9	0.9	0.8
109°	0.7	0.5	0.9	1.1	1.0	0.8
109.5°	0.7	0.5	0.9	1.1	1.1	0.8
110°	0.7	0.5	0.9	1.1	1.1	0.9
110.5°	0.7	0.7	0.9	1.2	1.1	0.9
111°	0.7	0.7	0.9	1.1	1.1	0.9



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.8	0.7	0.9	1.1	1.1	1.0
113°	0.8	0.7	1.0	1.1	1.1	1.0
113.5°	0.9	0.7	1.0	1.1	1.1	0.9
114°	0.9	0.7	1.0	1.1	1.1	0.9
114.5°	0.9	0.7	1.0	1.1	1.1	0.9
115°	0.9	0.8	1.0	1.1	1.1	0.9
115.5°	0.9	0.8	1.0	1.1	1.1	0.9
116°	0.9	0.9	1.0	1.1	1.1	0.9
116.5°	0.9	0.9	1.0	1.1	1.1	1.0
117°	1.0	0.9	1.0	1.1	1.1	1.0
117.5°	0.9	0.9	1.1	1.1	1.1	1.1
118°	1.0	0.9	1.1	1.1	1.1	1.1
118.5°	1.1	0.9	1.0	1.1	1.1	1.1
119°	1.1	0.9	1.1	1.1	1.1	1.1
119.5°	1.0	0.9	1.1	1.1	1.1	1.1
120°	1.1	0.9	1.1	1.1	1.1	1.1
120.5°	1.1	0.9	1.1	1.1	1.1	1.1
121°	1.1	0.9	1.1	1.1	1.1	1.1
121.5°	1.1	0.9	1.1	1.1	1.1	1.1
122°	1.1	0.9	1.1	1.1	1.1	1.1
122.5°	1.1	0.9	1.1	1.1	1.1	1.1
123°	1.1	1.1	1.1	1.1	1.1	1.1
123.5°	1.1	1.1	1.1	1.1	1.1	1.1
124°	1.1	1.0	1.1	1.1	1.1	1.1
124.5°	1.1	1.1	1.1	1.1	1.1	1.1
125°	1.1	1.1	1.1	1.1	1.1	1.1
125.5°	1.1	1.1	1.1	1.1	1.1	1.1
126°	1.2	1.1	1.1	1.1	1.1	1.1
126.5°	1.2	1.1	1.1	1.1	1.1	1.1
127°	1.2	1.1	1.3	1.1	1.1	1.1
127.5°	1.2	1.1	1.3	1.1	1.1	1.1
128°	1.2	1.1	1.3	1.1	1.1	1.1
128.5°	1.2	1.1	1.3	1.1	1.1	1.1
129°	1.2	1.1	1.3	1.1	1.1	1.1
129.5°	1.2	1.1	1.3	1.1	1.1	1.1
130°	1.3	1.1	1.4	1.1	1.1	1.1
130.5°	1.3	1.1	1.3	1.1	1.1	1.1
131°	1.3	1.3	1.3	1.1	1.1	1.1
131.5°	1.3	1.3	1.3	1.1	1.1	1.1
132°	1.3	1.3	1.3	1.1	1.1	1.1
132.5°	1.3	1.3	1.3	1.1	1.1	1.1
133°	1.4	1.3	1.3	1.1	1.1	1.1
133.5°	1.4	1.3	1.3	1.1	1.1	1.2



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P417429

CATALOG NUMBER: SMD6R129SWHE - 3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
180°	2.3	2.3	2.3	2.3	2.3	2.3



Report Generated By E9808895 / USPTCWHP6082093







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







21.5°	410.2	408.2	407.2	407.6	409.7	411.8	414.3	416.9	418.6	420.9	420.3
22°	408.2	406.4	405.4	405.6	408.2	410.2	412.5	415.3	417.5	420.1	419.1



44°	299.8	297.0	295.2	296.1	299.4	302.8	307.3	312.1	316.1	318.9	320.0
44.5°	296.8	293.9	292.1	292.9	296.4	299.8	304.3	309.0	313.1	316.1	317.6



66.5°	144.1	140.4	138.7	139.4	144.1	148.5	153.9	159.6	164.5	168.0	169.2
67°	140.2	136.6	134.9	135.6	140.3	144.8	150.2	155.9	160.7	164.0	165.3



89°	0.6	0.5	0.5	0.6	0.3	2.0	5.6	9.2	12.6	14.8	15.8
89.5°	0.6	0.5	0.5	0.5	0.3	0.5	3.2	6.8	10.0	12.1	13.2





111.5°	0.9	0.9	0.9	1.1	0.7	0.7	0.8	0.7	0.8	0.7	0.7
112°	0.9	0.9	0.9	1.1	0.7	0.7	0.9	0.8	0.8	0.6	0.7



134°	1.2	1.1	1.0	1.2	1.4	1.2	1.4	1.3	1.5	1.3	1.3
134.5°	1.1	1.1	1.0	1.2	1.3	1.2	1.4	1.3	1.5	1.3	1.3



156.5°	1.9	2.0	2.1	2.1	2.2	2.1	2.2	2.3	2.3	2.2	2.1
157°	2.0	2.0	2.1	2.1	2.3	2.3	2.2	2.3	2.5	2.3	2.1



179°	2.3	2.4	2.3	2.3	2.9	2.4	2.8	3.1	2.5	2.3	2.4
179.5°	2.3	2.4	2.3	2.3	3.0	2.4	2.7	3.0	2.5	2.3	2.4





21.5°	421.7	419.6	417.2	414.9	412.3	410.2
22°	419.4	417.8	415.5	413.2	410.4	408.2



44°	320.0	316.4	312.6	308.4	304.0	299.8
44.5°	316.7	313.5	309.6	305.6	300.9	296.8



66.5°	168.1	164.0	159.7	154.6	149.0	144.1
67°	164.3	160.3	156.1	150.9	145.4	140.2





89°	15.2	11.1	8.2	5.1	1.6	0.6
89.5°	12.5	8.4	5.7	2.3	0.7	0.6



111.5°	0.8	0.8	0.9	1.1	1.2	0.9
112°	0.8	0.7	0.9	1.1	1.1	0.9



134°	1.3	1.3	1.3	1.1	1.1	1.2
134.5°	1.3	1.3	1.3	1.1	1.1	1.1



156.5°	2.1	1.9	2.0	2.1	2.1	1.9
157°	2.1	1.9	2.0	2.1	2.1	2.0



179°	2.3	2.4	2.4	2.3	2.3	2.3
179.5°	2.3	2.4	2.5	2.7	2.4	2.3



(END OF REPORT)