

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: P417430

Luminaire Tested: **SMD6R129SWHE - 4000K**

Issue Date: 11/3/2020

Test Information

Test Method: LM-41-14
Report Number: P417430
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 - 4000K
Description: SMD SELECTABLE CCT 4000K
Light Source: SELECTABLE CCT LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1341.5 lumens
Efficiency: N/A
Efficacy: 92.5 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

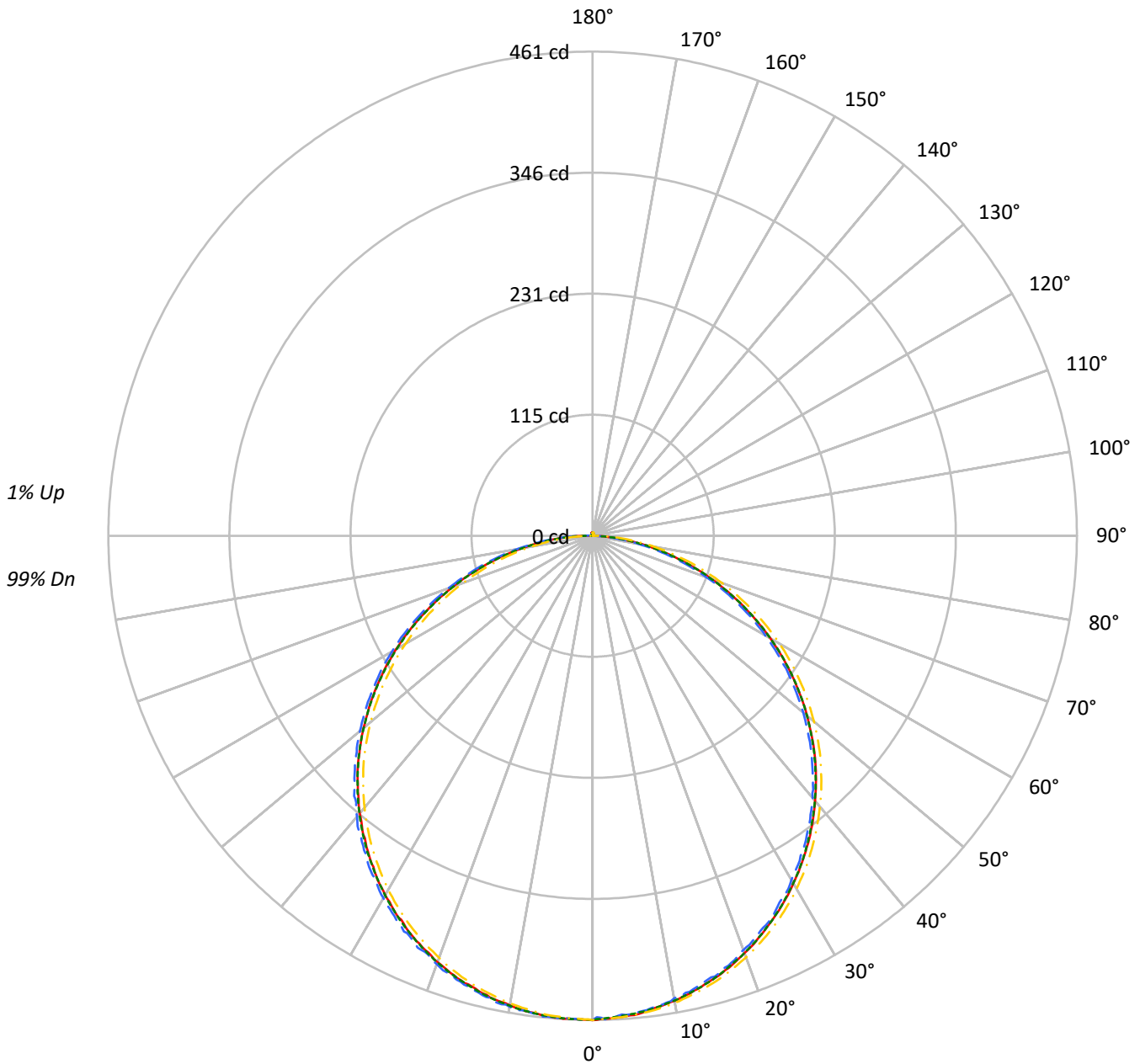
Input Watts (W): 14.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25283	25283	25283	25283
5°	25204	25138	25297	25286
10°	25027	25011	25267	25295
15°	24853	24881	25216	25267
20°	24671	24660	25202	25208
25°	24449	24443	25108	25120
30°	24194	24181	25004	25010
35°	23925	23885	24842	24875
40°	23587	23558	24696	24711
45°	23212	23165	24530	24514
50°	22728	22711	24272	24255
55°	22135	22164	24018	23951
60°	21413	21446	23726	23584
65°	20495	20521	23219	23128
70°	19298	19330	22632	22584
75°	17792	17813	22049	21943
80°	15564	15659	21562	21373
85°	11636	12140	22392	21763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	3.2
10°-20°	124.6	9.3
20°-30°	188.8	14.1
30°-40°	227.9	17.0
40°-50°	237.2	17.7
50°-60°	215.6	16.1
60°-70°	166.5	12.4
70°-80°	99.3	7.4
80°-90°	30.7	2.3
90°-100°	0.8	0.1
100°-110°	0.6	0.0
110°-120°	1.0	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°	356.9	26.6
0°-40°	584.8	43.6
0°-60°	1037.6	77.3
0°-90°	1334.1	99.5
90°-120°	2.4	0.2
90°-150°	5.5	0.4
90°-180°	7.0	0.5
0°-180°	1341.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	461	461	461	461	461	
5°	458	457	460	460	458	43
15°	438	438	444	445	438	124
25°	404	404	415	415	404	186
35°	358	357	371	372	358	224
45°	299	299	316	316	299	231
55°	232	232	251	251	232	207
65°	158	158	179	178	158	156
75°	84	84	104	104	84	89
85°	18	19	36	35	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	3	2	2	1
175°	2	3	3	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°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
0.5°	461.0	460.4	458.5	460.9	460.1	460.0	460.4	460.8	461.0	460.2	461.1
1°	459.9	460.2	459.0	460.2	460.0	460.2	460.3	460.5	460.9	460.3	460.3
1.5°	460.2	459.6	460.5	459.9	459.5	459.6	460.4	460.6	460.5	460.8	460.9
2°	460.0	459.1	458.8	461.1	459.2	459.5	460.1	460.3	460.6	461.0	460.2
2.5°	459.7	459.1	459.3	459.9	458.9	459.2	459.7	460.2	460.4	460.5	460.5
3°	459.2	458.4	457.8	459.6	458.6	458.8	459.4	460.0	460.2	460.3	460.1
3.5°	458.9	457.7	456.6	458.8	458.0	458.3	459.2	459.8	460.8	459.8	460.0
4°	458.5	457.1	457.5	458.5	457.8	458.0	458.8	459.4	459.9	460.4	460.5
4.5°	458.0	456.4	456.9	456.6	457.1	457.6	458.4	459.2	460.3	459.6	459.9
5°	458.0	456.7	456.9	457.2	456.8	457.5	458.0	458.8	459.7	459.5	459.9
5.5°	457.3	456.0	455.6	455.9	456.0	456.7	457.5	458.5	459.8	459.2	459.8
6°	456.5	455.1	455.0	455.2	455.7	456.0	456.8	458.1	459.1	458.9	460.5
6.5°	455.8	454.8	454.6	453.5	454.9	455.4	456.5	457.7	458.2	459.0	458.8
7°	454.2	454.2	453.3	452.8	454.3	454.8	455.9	457.0	457.8	458.4	458.5
7.5°	453.5	453.3	452.5	452.6	453.6	454.3	455.5	456.5	457.4	458.1	457.6
8°	452.9	452.1	451.7	453.0	452.9	453.4	454.6	455.7	457.1	457.6	456.8
8.5°	452.1	451.4	451.2	451.4	452.0	452.8	454.1	455.0	456.3	456.8	456.8
9°	451.2	450.6	450.0	451.3	451.0	451.7	453.1	454.5	455.7	455.5	457.3
9.5°	450.1	449.7	449.4	449.1	450.2	450.9	452.5	453.7	455.0	454.8	456.7
10°	449.6	448.5	447.3	447.8	449.3	449.9	451.5	452.9	453.9	454.5	455.4
10.5°	448.6	447.7	446.3	447.7	448.4	449.0	450.8	452.1	452.9	453.6	453.9
11°	447.3	446.6	446.0	447.0	447.3	448.0	449.5	451.4	452.4	453.1	454.4
11.5°	446.4	445.2	444.1	446.1	446.3	447.1	448.7	450.4	451.9	452.5	453.8
12°	445.6	444.3	444.1	444.9	445.1	446.0	447.6	449.4	451.0	452.2	453.2
12.5°	443.9	443.4	442.3	443.6	444.0	445.1	446.8	448.4	450.3	451.5	450.7
13°	443.0	442.4	441.0	441.0	442.9	444.1	445.7	447.4	448.6	449.6	450.8
13.5°	442.0	440.9	439.5	439.9	441.8	442.9	444.6	446.1	448.1	449.0	449.9
14°	440.3	439.8	438.1	439.4	440.5	441.8	443.5	445.3	447.1	448.6	448.3
14.5°	439.3	438.6	436.7	437.8	439.3	440.4	442.3	444.2	445.4	446.6	447.4
15°	437.9	437.1	435.2	436.4	438.4	439.3	441.2	443.2	444.3	445.8	446.7
15.5°	436.8	435.9	435.5	434.8	436.6	438.0	440.0	442.0	443.3	445.5	445.1
16°	435.6	434.0	433.8	434.0	435.4	436.7	438.8	440.9	443.0	444.3	444.5
16.5°	434.3	432.4	431.6	432.7	433.8	435.2	437.5	439.5	441.5	442.3	442.7
17°	432.3	431.1	430.1	431.4	432.3	433.9	436.0	438.3	440.4	440.6	442.1
17.5°	431.4	429.9	429.2	429.6	430.6	432.3	434.6	436.8	438.8	439.8	440.3
18°	429.6	428.5	427.5	428.2	429.2	431.1	433.1	435.7	437.8	438.7	439.7
18.5°	427.8	426.2	426.0	426.3	427.5	429.4	431.7	434.0	436.1	437.1	438.2
19°	426.1	424.5	423.8	423.2	426.0	427.8	430.1	432.6	434.6	436.0	437.5
19.5°	424.6	422.8	421.0	422.1	424.4	426.0	428.6	431.0	433.1	435.1	435.7
20°	422.9	421.5	419.8	421.2	422.7	424.6	427.1	429.6	432.0	433.7	434.1
20.5°	421.3	419.9	418.2	419.1	420.9	423.0	425.5	428.1	430.6	431.9	432.7
21°	419.7	418.4	417.1	417.1	419.4	421.4	423.8	426.6	428.3	429.9	430.3



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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°	413.8	412.4	411.0	411.1	413.8	415.9	418.7	421.5	424.0	426.0	426.8
23°	412.1	411.0	408.7	409.5	411.9	414.2	416.8	419.7	421.8	424.1	426.1
23.5°	410.0	409.0	406.9	407.7	409.9	412.1	415.0	418.0	420.6	422.6	423.6
24°	408.0	406.5	405.7	405.3	408.0	410.4	413.2	416.2	418.8	421.0	421.5
24.5°	406.0	404.1	404.0	403.4	406.0	408.4	411.4	414.3	416.9	419.6	419.3
25°	404.2	402.1	402.0	401.1	404.1	406.5	409.4	412.5	415.1	417.3	417.5
25.5°	402.2	399.8	399.9	399.4	402.0	404.3	407.7	410.7	413.3	415.9	417.4
26°	400.0	397.9	397.3	397.1	400.0	402.5	405.6	408.7	410.6	413.9	414.6
26.5°	398.1	395.7	394.4	395.5	397.6	400.2	403.4	406.4	408.6	410.9	413.0
27°	395.6	393.7	391.9	393.3	395.8	398.3	401.4	404.7	407.7	409.3	411.2
27.5°	393.7	391.4	390.0	390.8	393.4	396.0	399.2	402.6	405.6	407.4	408.4
28°	391.3	389.1	388.1	388.6	391.2	394.0	397.1	400.6	403.4	406.0	406.5
28.5°	389.3	386.9	386.4	385.7	388.9	391.5	394.9	398.4	401.1	403.7	404.4
29°	387.0	384.6	384.2	383.7	386.7	389.4	392.9	396.1	398.6	401.7	402.7
29.5°	384.7	382.3	381.4	381.3	384.3	386.9	390.5	393.8	396.9	399.4	400.5
30°	382.2	379.9	378.5	379.2	382.0	384.6	388.3	391.7	395.0	397.4	398.3
30.5°	379.9	377.6	376.0	377.0	379.6	382.2	385.9	389.5	392.6	394.7	396.6
31°	377.4	375.1	373.8	374.6	377.3	379.8	383.5	387.3	390.4	392.7	394.2
31.5°	375.4	372.8	371.3	372.0	374.7	377.3	381.1	384.9	388.4	390.0	391.4
32°	372.5	370.3	369.3	369.7	372.4	375.0	378.9	382.7	386.2	388.2	388.9
32.5°	370.2	367.9	366.9	367.4	370.0	372.5	376.3	380.2	383.6	385.4	386.2
33°	367.8	365.4	363.6	365.1	367.4	370.1	374.0	377.8	381.3	383.7	384.8
33.5°	365.1	362.9	361.1	361.9	364.8	367.6	371.4	375.2	378.2	380.9	382.7
34°	362.6	360.2	358.9	359.3	362.2	365.1	369.0	372.9	376.5	379.1	380.5
34.5°	360.0	357.6	356.5	356.5	359.5	362.5	366.3	370.3	373.8	376.3	377.9
35°	357.5	354.9	353.9	354.1	356.9	359.8	363.8	368.0	371.2	373.5	374.9
35.5°	354.9	352.4	350.8	351.3	354.2	357.3	361.1	365.6	368.7	371.2	371.9
36°	352.2	349.5	348.0	348.6	351.6	354.6	358.5	362.9	366.3	369.0	370.2
36.5°	349.3	346.9	345.7	345.9	348.7	352.0	355.9	360.3	363.1	366.8	367.3
37°	346.6	343.8	343.0	342.9	346.1	349.2	353.2	357.5	360.4	364.3	365.0
37.5°	343.9	341.0	340.2	339.9	343.2	346.5	350.5	355.1	358.6	361.3	361.9
38°	341.0	338.5	337.0	337.5	340.5	343.7	347.5	352.1	356.1	358.8	359.9
38.5°	338.2	335.9	334.3	334.7	337.6	340.9	345.0	349.4	352.8	355.1	357.9
39°	335.4	332.7	331.4	332.0	335.0	338.1	342.1	347.0	350.0	353.0	355.7
39.5°	332.5	329.7	329.6	329.1	332.1	335.2	339.4	343.9	347.4	350.2	352.1
40°	329.6	327.0	325.7	326.2	329.2	332.5	336.6	341.1	345.1	347.3	349.0
40.5°	326.6	324.0	322.1	323.5	326.2	329.5	333.9	338.3	342.3	344.9	346.4
41°	323.7	321.2	320.1	320.7	323.4	326.8	331.0	335.4	339.5	342.3	343.4
41.5°	320.8	318.1	316.4	317.4	320.2	323.7	328.1	332.4	336.1	339.4	339.5
42°	317.7	315.0	313.4	314.0	317.2	320.8	325.1	329.7	333.3	336.7	337.6
42.5°	314.8	312.0	310.2	311.0	314.3	317.8	322.2	326.8	330.7	333.4	336.1
43°	311.8	308.8	307.0	308.1	311.2	314.7	319.3	324.3	327.9	330.9	332.7
43.5°	308.6	305.5	303.9	304.8	308.1	311.7	316.2	321.0	324.6	328.0	329.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	299.4	295.9	294.7	295.1	298.8	302.5	307.0	311.9	316.4	319.1	320.5
45.5°	296.2	292.6	291.5	291.9	295.7	299.3	304.0	308.9	313.3	316.0	317.4
46°	292.9	289.6	288.3	289.2	292.5	296.2	301.1	305.8	310.2	313.2	314.7
46.5°	289.7	286.6	285.2	285.8	289.2	293.0	297.9	302.8	307.2	310.1	311.2
47°	286.4	283.3	281.6	281.7	286.0	289.8	294.4	299.7	303.6	307.2	308.0
47.5°	282.9	280.1	278.2	278.3	282.8	286.5	291.3	296.4	300.7	304.1	304.6
48°	279.9	276.5	275.0	275.3	279.4	283.2	288.0	293.4	297.3	300.8	302.1
48.5°	276.4	273.4	271.4	271.8	276.1	280.1	284.9	290.3	294.2	297.5	299.2
49°	273.2	270.0	268.2	268.9	272.7	276.6	281.7	286.8	291.3	294.5	295.4
49.5°	269.8	266.8	265.0	265.5	269.6	273.4	278.3	283.4	287.8	291.0	292.1
50°	266.5	263.3	261.6	262.1	266.3	270.1	275.0	280.4	284.6	287.7	289.0
50.5°	263.2	259.6	258.0	258.6	262.8	266.9	271.4	277.0	280.9	284.0	285.8
51°	259.8	256.3	254.2	255.0	259.5	263.4	268.3	273.6	278.0	280.6	282.7
51.5°	256.1	252.8	250.8	251.6	256.0	260.1	265.0	270.2	274.6	278.0	279.0
52°	252.7	249.4	247.5	248.4	252.7	256.6	261.7	267.1	271.3	274.5	276.0
52.5°	249.2	245.8	244.4	244.8	249.2	253.1	258.2	263.5	268.1	271.3	272.8
53°	245.6	242.3	240.8	241.3	245.8	249.9	254.7	260.1	265.0	268.0	269.2
53.5°	242.1	238.7	237.1	237.6	242.3	246.4	251.4	256.8	261.3	264.4	266.2
54°	238.6	235.1	233.4	234.4	238.9	242.8	248.0	253.2	257.8	260.9	262.3
54.5°	235.1	231.7	230.2	231.2	235.2	239.3	244.5	249.8	254.7	258.3	259.2
55°	231.6	228.2	226.9	227.6	231.9	235.9	241.0	246.5	251.3	254.9	255.9
55.5°	228.0	224.6	223.5	223.9	228.2	232.5	237.4	242.9	247.5	251.1	251.9
56°	224.5	221.0	219.2	220.2	224.7	228.9	234.0	239.8	244.1	247.8	249.0
56.5°	220.8	217.5	216.1	216.6	221.1	225.4	230.5	235.9	240.6	244.7	245.4
57°	217.2	213.7	212.1	212.7	217.5	221.9	227.1	232.7	237.4	240.7	242.1
57.5°	213.6	209.9	208.5	209.0	214.0	218.2	223.3	229.2	234.0	236.9	238.7
58°	209.9	206.6	204.9	205.3	210.3	214.6	219.9	225.5	230.6	233.1	235.0
58.5°	206.4	203.0	201.2	201.5	206.5	210.8	216.2	221.9	226.4	230.2	231.6
59°	202.6	199.2	197.3	197.9	203.0	207.2	212.8	218.4	223.1	226.7	227.7
59.5°	199.0	195.5	193.5	194.4	199.1	203.5	209.1	214.9	219.7	223.1	224.3
60°	195.3	191.6	189.8	190.5	195.6	199.9	205.4	211.2	216.4	219.3	220.5
60.5°	191.6	188.0	186.3	186.9	191.8	196.4	201.7	207.3	212.4	215.6	217.2
61°	187.8	184.3	182.5	183.3	188.1	192.5	198.0	203.8	208.6	211.7	213.3
61.5°	184.2	180.6	178.9	179.7	184.3	188.8	194.4	200.3	204.9	208.0	209.7
62°	180.4	176.8	175.0	175.9	180.6	185.1	190.7	196.4	201.4	204.4	206.3
62.5°	176.6	173.1	171.4	172.1	176.8	181.3	186.9	192.8	197.7	200.8	202.3
63°	172.9	169.3	167.6	168.3	173.1	177.5	183.2	189.1	193.9	197.0	198.5
63.5°	169.2	165.5	163.9	164.4	169.3	173.9	179.5	185.3	190.4	193.4	195.2
64°	165.5	161.9	160.1	161.0	165.6	170.0	175.6	181.7	186.5	189.6	191.3
64.5°	161.9	158.2	156.2	157.1	161.7	166.1	171.9	177.7	182.7	186.2	187.4
65°	158.0	154.5	152.6	153.4	158.2	162.6	168.1	174.0	179.0	182.2	183.6
65.5°	154.3	150.6	148.8	149.5	154.4	159.0	164.4	170.1	175.0	178.4	179.9
66°	150.4	146.7	145.1	145.7	150.4	155.0	160.7	166.2	171.4	174.3	176.2



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	139.2	135.7	133.8	134.4	139.0	143.8	149.2	155.0	159.9	163.4	164.6
68°	135.5	131.8	129.9	130.6	135.4	140.0	145.5	151.2	156.3	159.4	161.1
68.5°	131.8	128.2	126.3	127.0	131.7	136.1	141.8	147.3	152.4	156.0	157.1
69°	127.9	124.3	122.9	123.3	128.1	132.4	138.2	143.7	148.8	151.9	153.4
69.5°	124.1	120.7	119.0	119.7	124.3	128.8	134.4	140.0	145.0	148.5	149.9
70°	120.4	116.9	115.3	115.8	120.6	125.2	130.6	136.1	141.2	144.7	145.9
70.5°	116.8	113.1	111.6	112.0	117.0	121.5	126.8	132.6	137.3	140.8	141.9
71°	113.0	109.3	107.9	108.4	113.2	117.7	123.2	129.2	133.6	137.1	138.5
71.5°	109.6	105.8	104.1	104.7	109.6	114.0	119.5	125.1	129.9	133.3	134.7
72°	105.6	102.2	100.4	101.1	105.8	110.3	115.7	121.5	126.3	129.5	131.3
72.5°	102.0	98.5	96.6	97.5	102.2	106.6	112.0	117.8	122.5	126.1	127.2
73°	98.3	94.8	93.1	93.8	98.5	102.8	108.3	114.0	118.6	122.4	123.5
73.5°	94.8	91.3	89.6	90.2	94.8	99.3	104.8	110.3	114.9	118.4	119.9
74°	91.2	87.7	85.8	86.5	91.4	95.5	101.0	106.7	111.2	114.8	116.0
74.5°	87.6	84.0	82.2	83.0	87.7	92.0	97.5	103.1	107.6	111.1	112.3
75°	84.0	80.4	78.6	79.4	84.1	88.5	93.8	99.3	104.1	107.5	108.6
75.5°	80.4	76.8	75.0	75.8	80.4	85.0	90.2	95.7	100.3	103.6	105.1
76°	76.7	73.3	71.6	72.1	76.9	81.4	86.7	92.2	96.7	99.9	101.4
76.5°	73.2	69.6	67.9	68.6	73.3	77.8	83.1	88.5	93.1	96.1	97.3
77°	69.6	66.2	64.5	65.1	69.8	74.3	79.6	84.9	89.6	92.8	93.9
77.5°	66.2	62.7	61.1	61.7	66.5	70.9	76.1	81.4	86.1	89.3	90.6
78°	62.7	59.3	57.8	58.4	63.1	67.4	72.7	77.8	82.4	85.7	86.9
78.5°	59.4	56.1	54.4	55.0	59.6	63.9	69.0	74.3	78.9	82.1	83.4
79°	56.0	52.6	51.0	51.7	56.4	60.5	65.7	70.7	75.4	78.4	79.6
79.5°	52.7	49.2	47.5	48.3	53.0	57.2	62.2	67.4	71.9	74.9	76.2
80°	49.3	46.0	44.4	45.0	49.6	53.9	58.6	63.9	68.3	71.3	72.8
80.5°	45.9	42.8	41.2	41.8	46.4	50.5	55.5	60.5	64.9	67.9	68.9
81°	42.7	39.7	38.0	38.6	43.2	47.4	52.2	57.3	61.5	64.5	65.7
81.5°	39.4	36.4	34.7	35.4	40.1	44.0	48.9	53.9	58.1	61.0	62.3
82°	36.4	33.3	31.8	32.2	37.0	40.9	45.7	50.6	54.8	57.6	58.9
82.5°	33.1	30.1	28.7	29.1	33.8	37.8	42.3	47.4	51.6	54.4	55.7
83°	30.0	27.2	25.6	26.1	30.7	34.8	39.7	44.2	48.3	51.1	52.4
83.5°	27.1	24.2	22.9	23.3	27.8	31.7	36.3	41.0	45.1	47.8	49.1
84°	24.1	21.4	19.9	20.4	24.8	28.6	33.2	37.8	41.8	44.5	45.8
84.5°	21.3	18.6	17.2	17.6	22.2	25.7	30.3	34.8	38.7	41.5	42.7
85°	18.5	15.8	14.4	14.8	19.3	22.9	27.2	31.8	35.6	38.5	39.5
85.5°	15.8	13.2	11.9	12.1	16.6	20.2	24.3	28.8	32.7	35.4	36.3
86°	13.1	10.6	9.4	9.8	13.8	17.4	21.5	25.8	29.5	32.3	33.2
86.5°	10.6	8.2	6.9	7.2	11.2	14.5	18.7	23.0	26.6	29.3	30.3
87°	8.3	6.0	4.6	4.9	8.6	11.9	16.0	20.2	23.7	26.4	27.4
87.5°	6.1	3.3	2.3	2.5	6.1	9.4	13.3	17.4	21.0	23.4	24.4
88°	3.3	1.4	0.8	1.0	3.8	6.9	10.6	14.7	18.3	20.8	21.8
88.5°	1.4	0.7	0.6	0.6	1.6	4.5	8.1	12.0	15.4	17.9	18.9



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

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	4.6	7.7	10.0	10.9
90.5°	0.6	0.5	0.5	0.5	0.3	0.5	0.5	2.0	5.2	7.4	8.2
91°	0.6	0.5	0.5	0.5	0.3	0.4	0.5	0.5	2.7	4.9	5.9
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	0.4	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	0.6	0.5	0.5	0.5	0.6	0.6	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	1.0	0.6	0.6	0.8	0.6	0.8	0.5	0.6
108°	0.8	0.8	0.8	1.0	0.6	0.8	0.8	0.7	0.7	0.5	0.6
108.5°	0.8	0.8	0.8	1.1	0.6	0.8	0.8	0.7	0.7	0.5	0.6
109°	0.8	0.9	0.8	1.2	0.6	0.8	0.8	0.7	0.8	0.5	0.5
109.5°	0.8	1.0	0.9	1.2	0.8	0.8	0.8	0.7	0.8	0.5	0.6
110°	0.9	1.0	0.9	1.2	0.7	0.8	0.8	0.8	0.8	0.5	0.7
110.5°	0.9	1.0	0.9	1.2	0.7	0.8	0.8	0.8	0.8	0.5	0.7
111°	0.9	1.0	0.9	1.2	0.7	0.8	0.8	0.8	0.8	0.6	0.7



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

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



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	1.2	1.2	1.0	1.2	1.4	1.2	1.4	1.4	1.4	1.4	1.4
135.5°	1.2	1.2	1.0	1.2	1.4	1.2	1.4	1.4	1.4	1.4	1.4
136°	1.2	1.2	1.2	1.2	1.4	1.3	1.5	1.4	1.4	1.4	1.4
136.5°	1.2	1.2	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.4	1.4
137°	1.2	1.3	1.2	1.2	1.5	1.3	1.4	1.4	1.4	1.4	1.4
137.5°	1.2	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.4	1.4
138°	1.2	1.3	1.3	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.5
138.5°	1.2	1.4	1.3	1.2	1.5	1.4	1.5	1.4	1.5	1.4	1.5
139°	1.2	1.4	1.2	1.2	1.5	1.4	1.4	1.4	1.5	1.4	1.5
139.5°	1.2	1.3	1.2	1.2	1.6	1.5	1.6	1.4	1.6	1.4	1.4
140°	1.2	1.4	1.3	1.2	1.6	1.5	1.6	1.5	1.6	1.5	1.6
140.5°	1.3	1.4	1.3	1.2	1.6	1.4	1.6	1.5	1.6	1.4	1.6
141°	1.3	1.5	1.3	1.3	1.6	1.4	1.6	1.5	1.6	1.4	1.6
141.5°	1.3	1.5	1.4	1.3	1.6	1.5	1.6	1.5	1.6	1.4	1.6
142°	1.3	1.7	1.4	1.3	1.6	1.5	1.6	1.5	1.7	1.5	1.6
142.5°	1.3	1.7	1.3	1.4	1.6	1.5	1.6	1.5	1.7	1.4	1.6
143°	1.4	1.8	1.4	1.4	1.6	1.5	1.6	1.6	1.6	1.4	1.6
143.5°	1.4	1.9	1.4	1.4	1.6	1.5	1.7	1.6	1.6	1.5	1.6
144°	1.4	1.9	1.5	1.4	1.6	1.5	1.7	1.6	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	2.0	1.6	1.5	1.8	1.6	1.6	1.7	1.8	1.7	1.6
145.5°	1.4	2.0	1.7	1.6	1.8	1.6	1.6	1.7	1.7	1.6	1.8
146°	1.6	2.0	1.8	1.7	1.8	1.6	1.7	1.6	1.7	1.6	1.8
146.5°	1.6	2.1	1.9	1.9	1.8	1.6	1.7	1.6	1.8	1.6	1.7
147°	1.7	2.1	2.0	2.0	1.8	1.6	1.7	1.8	1.8	1.8	1.8
147.5°	1.8	2.1	2.0	2.0	1.9	1.6	1.8	1.8	1.8	1.8	1.8
148°	1.9	2.0	2.0	2.0	2.0	1.8	1.8	1.7	1.9	1.8	1.8
148.5°	1.9	2.0	2.0	2.2	1.9	1.8	1.8	1.7	1.9	1.8	1.8
149°	2.0	2.0	2.0	2.2	1.9	1.8	1.8	1.7	1.9	1.9	1.8
149.5°	2.0	2.0	2.0	2.1	1.9	1.8	1.8	1.7	1.9	1.9	1.9
150°	2.0	2.0	2.0	2.1	1.9	1.8	1.8	1.8	1.9	1.9	1.9
150.5°	2.0	2.0	2.1	2.1	1.9	1.8	1.8	1.9	2.0	1.9	1.9
151°	2.0	2.0	2.1	2.1	1.9	1.9	1.9	2.0	2.0	1.9	2.0
151.5°	2.0	2.0	2.0	2.1	1.9	1.9	1.8	2.0	2.1	1.9	2.0
152°	2.0	2.0	2.0	2.1	2.0	1.9	1.8	1.9	2.1	2.1	2.0
152.5°	2.0	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.1	2.1	2.0
153°	2.0	2.0	2.0	2.1	2.1	1.9	2.0	2.1	2.2	2.1	2.0
153.5°	2.0	2.0	2.0	2.1	2.1	1.9	2.0	2.1	2.2	2.2	2.0
154°	2.0	2.0	2.0	2.1	2.0	2.0	2.0	2.1	2.3	2.2	2.0
154.5°	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.1	2.3	2.2	2.2
155°	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.2	2.3	2.3	2.2
155.5°	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.3	2.4	2.3	2.2
156°	2.0	2.0	2.1	2.1	2.2	2.2	2.1	2.3	2.3	2.3	2.2



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	2.0	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.5	2.4	2.2
158°	2.0	2.2	2.2	2.2	2.3	2.4	2.3	2.5	2.5	2.3	2.2
158.5°	2.1	2.1	2.2	2.3	2.3	2.4	2.4	2.5	2.5	2.3	2.2
159°	2.2	2.1	2.2	2.3	2.3	2.3	2.4	2.5	2.5	2.3	2.2
159.5°	2.3	2.2	2.2	2.3	2.3	2.5	2.5	2.5	2.6	2.3	2.2
160°	2.3	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.6	2.3	2.2
160.5°	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.6	2.3	2.2
161°	2.2	2.3	2.4	2.4	2.3	2.5	2.5	2.5	2.7	2.3	2.2
161.5°	2.2	2.4	2.3	2.3	2.3	2.5	2.5	2.5	2.7	2.3	2.2
162°	2.2	2.3	2.3	2.3	2.3	2.5	2.5	2.6	2.7	2.3	2.2
162.5°	2.2	2.3	2.3	2.3	2.4	2.5	2.6	2.6	3.1	2.3	2.2
163°	2.2	2.4	2.4	2.3	2.3	2.5	2.6	2.6	2.6	2.3	2.3
163.5°	2.2	2.5	2.4	2.3	2.3	2.5	2.6	2.6	2.5	2.3	2.2
164°	2.2	2.5	2.5	2.3	2.3	2.5	2.7	2.6	2.7	2.3	2.2
164.5°	2.3	2.5	2.5	2.3	2.3	2.5	3.1	2.6	2.7	2.3	2.9
165°	2.3	2.5	2.4	2.3	2.3	2.5	2.6	2.6	2.6	2.3	2.5
165.5°	2.3	2.5	2.4	2.3	2.3	2.5	2.7	2.6	2.6	2.3	2.5
166°	2.3	2.5	2.4	2.3	2.3	2.5	2.7	2.7	2.6	2.3	2.5
166.5°	2.3	2.5	2.4	2.3	2.4	2.5	2.7	2.7	2.6	2.3	2.5
167°	2.3	2.6	2.4	2.3	2.5	2.5	2.7	2.6	2.6	2.3	2.5
167.5°	2.3	2.7	2.4	2.3	2.4	2.5	2.7	2.7	2.6	2.3	2.5
168°	2.3	2.7	2.4	2.3	2.4	2.5	2.7	2.8	2.6	2.3	2.5
168.5°	2.3	2.7	2.4	2.3	2.5	2.5	2.7	2.8	2.6	2.3	2.5
169°	2.3	2.8	2.4	2.3	2.5	2.5	2.7	2.8	2.6	2.3	2.5
169.5°	2.3	2.7	2.4	2.3	2.5	2.5	2.7	2.8	2.6	2.3	2.5
170°	2.3	2.7	2.4	2.3	2.5	2.5	2.7	2.9	2.6	2.3	2.5
170.5°	2.3	2.7	2.4	2.3	2.5	2.5	2.7	2.9	2.6	2.3	2.5
171°	2.3	2.7	2.4	2.3	2.5	2.5	2.7	2.9	2.6	2.3	2.5
171.5°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	2.9	2.6	2.3	2.5
172°	2.3	2.7	2.4	2.3	2.7	2.5	2.7	2.9	2.6	2.3	2.5
172.5°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	2.9	2.6	2.3	2.5
173°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	2.9	2.6	2.3	2.5
173.5°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	2.9	2.6	2.3	2.5
174°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	3.1	2.6	2.3	2.5
174.5°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	3.1	2.6	2.3	2.5
175°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	3.0	2.6	2.3	2.5
175.5°	2.3	2.7	2.4	2.3	2.6	2.5	2.7	3.0	2.6	2.3	2.5
176°	2.3	2.6	2.4	2.3	2.6	2.5	2.8	3.0	2.6	2.3	2.5
176.5°	2.3	2.6	2.4	2.3	2.6	2.5	2.8	3.0	2.6	2.3	2.5
177°	2.3	2.5	2.4	2.3	2.7	2.5	2.8	3.0	2.6	2.3	2.5
177.5°	2.3	2.5	2.4	2.3	2.7	2.5	2.8	3.1	2.6	2.3	2.5
178°	2.3	2.5	2.4	2.3	2.7	2.5	2.8	3.0	2.6	2.3	2.5
178.5°	2.3	2.5	2.4	2.3	3.0	2.5	2.9	3.0	2.6	2.3	2.5



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

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: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	461.2	461.2	461.2	461.2	461.2	461.2
0.5°	461.6	460.6	460.3	460.4	460.5	461.0
1°	462.2	460.7	460.3	460.4	460.3	459.9
1.5°	460.3	460.8	460.3	460.2	460.3	460.2
2°	461.5	460.6	460.1	460.0	460.0	460.0
2.5°	460.7	460.7	460.0	459.9	459.6	459.7
3°	459.6	460.4	459.9	459.8	459.6	459.2
3.5°	461.0	460.4	459.7	459.3	459.3	458.9
4°	460.3	460.0	459.3	459.1	459.0	458.5
4.5°	458.8	459.9	459.0	458.8	458.4	458.0
5°	458.6	459.5	458.8	458.7	457.9	458.0
5.5°	459.7	459.3	458.3	458.1	457.5	457.3
6°	460.1	458.9	458.0	457.5	456.6	456.5
6.5°	457.5	458.6	457.5	457.0	456.1	455.8
7°	459.8	458.0	457.0	456.1	455.4	454.2
7.5°	460.1	457.5	456.4	455.4	455.0	453.5
8°	457.3	457.0	455.9	454.9	454.0	452.9
8.5°	457.0	456.5	455.3	454.3	453.5	452.1
9°	457.3	455.9	454.6	453.4	452.3	451.2
9.5°	456.3	455.3	453.9	452.7	451.7	450.1
10°	454.8	454.4	453.4	451.9	450.6	449.6
10.5°	454.2	453.7	452.1	451.2	450.1	448.6
11°	455.4	453.0	451.6	450.2	448.8	447.3
11.5°	453.6	452.3	450.5	449.4	447.9	446.4
12°	452.2	451.4	449.7	448.3	446.8	445.6
12.5°	452.0	450.4	448.7	447.3	445.8	443.9
13°	450.0	449.5	447.7	446.3	444.6	443.0
13.5°	449.5	448.6	446.4	445.2	443.5	442.0
14°	449.1	447.4	445.5	444.1	442.2	440.3
14.5°	448.9	446.3	444.4	443.3	441.2	439.3
15°	447.2	445.2	443.4	442.0	440.1	437.9
15.5°	445.2	444.0	442.2	440.6	438.8	436.8
16°	444.1	442.8	441.0	439.2	437.3	435.6
16.5°	443.4	441.8	439.8	438.1	435.8	434.3
17°	442.6	440.4	438.6	436.6	434.4	432.3
17.5°	441.6	439.3	437.2	435.2	433.1	431.4
18°	439.8	437.7	435.9	433.9	431.5	429.6
18.5°	438.3	436.6	434.3	432.4	430.1	427.8
19°	436.8	434.9	432.8	430.9	428.5	426.1
19.5°	435.6	433.8	431.4	429.4	426.9	424.6
20°	433.9	432.1	429.9	427.6	425.2	422.9
20.5°	432.9	430.8	428.1	425.8	423.4	421.3
21°	431.5	429.0	426.7	424.0	422.1	419.7



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	426.4	424.4	421.7	419.1	416.3	413.8
23°	425.0	422.4	420.1	417.4	414.4	412.1
23.5°	423.4	420.9	418.2	415.6	412.7	410.0
24°	422.5	419.0	416.6	413.7	410.8	408.0
24.5°	419.9	417.1	414.5	412.0	409.0	406.0
25°	417.9	415.3	412.7	410.1	406.9	404.2
25.5°	416.6	413.5	410.6	408.1	405.1	402.2
26°	414.9	411.5	409.1	406.0	402.9	400.0
26.5°	412.7	409.8	407.1	404.1	400.9	398.1
27°	410.5	407.6	405.1	401.8	398.8	395.6
27.5°	407.7	405.7	402.9	399.8	396.5	393.7
28°	405.2	403.6	400.9	397.7	394.3	391.3
28.5°	403.4	401.6	398.8	395.7	392.2	389.3
29°	402.2	399.5	396.6	393.3	390.0	387.0
29.5°	400.6	397.5	394.5	391.3	387.8	384.7
30°	399.2	395.1	392.4	388.8	385.4	382.2
30.5°	395.9	393.0	390.1	386.7	383.1	379.9
31°	393.8	390.5	387.8	384.2	380.8	377.4
31.5°	391.7	388.4	385.5	382.1	378.4	375.4
32°	388.4	386.0	383.1	379.6	375.9	372.5
32.5°	387.5	383.8	380.7	377.3	373.4	370.2
33°	384.8	381.3	378.4	374.7	371.1	367.8
33.5°	381.9	379.1	375.8	372.3	368.8	365.1
34°	379.8	376.5	373.6	369.9	366.2	362.6
34.5°	377.4	374.2	371.2	367.4	363.5	360.0
35°	375.0	371.7	368.6	364.8	361.1	357.5
35.5°	372.8	369.5	366.1	362.3	358.4	354.9
36°	370.9	366.8	363.6	359.8	355.7	352.2
36.5°	368.1	364.3	361.0	357.0	353.0	349.3
37°	364.7	361.6	358.3	354.3	350.3	346.6
37.5°	362.3	359.0	355.6	351.7	347.6	343.9
38°	359.3	356.2	353.1	348.9	344.7	341.0
38.5°	357.0	353.7	350.1	346.2	342.0	338.2
39°	353.8	350.9	347.5	343.5	339.2	335.4
39.5°	350.5	348.3	344.7	340.7	336.3	332.5
40°	348.5	345.3	342.0	337.8	333.6	329.6
40.5°	345.7	342.7	339.3	335.0	330.6	326.6
41°	342.1	339.9	336.4	332.2	327.8	323.7
41.5°	340.1	337.1	333.4	329.2	324.7	320.8
42°	337.4	334.1	330.7	326.3	321.8	317.7
42.5°	335.0	331.3	327.5	323.3	318.8	314.8
43°	332.1	328.2	324.7	320.4	315.8	311.8
43.5°	328.8	325.2	321.5	317.3	312.7	308.6



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	319.8	316.2	312.4	308.3	303.5	299.4
45.5°	316.7	313.1	309.4	305.3	300.5	296.2
46°	313.4	310.1	306.2	301.9	297.2	292.9
46.5°	310.1	306.9	303.1	298.8	294.1	289.7
47°	307.5	303.8	300.2	295.5	291.0	286.4
47.5°	304.6	300.6	296.9	292.2	287.7	282.9
48°	301.9	297.5	293.7	288.9	284.4	279.9
48.5°	298.6	294.3	290.6	285.7	280.9	276.4
49°	295.2	291.1	287.3	282.4	277.6	273.2
49.5°	292.0	287.7	284.0	279.2	274.4	269.8
50°	289.0	284.4	280.7	275.7	271.0	266.5
50.5°	285.5	281.1	277.3	272.4	267.7	263.2
51°	282.0	277.8	274.0	269.0	264.2	259.8
51.5°	278.6	274.5	270.6	265.8	260.8	256.1
52°	275.3	271.1	267.3	262.4	257.4	252.7
52.5°	271.9	267.7	263.9	258.9	253.9	249.2
53°	268.9	264.4	260.5	255.5	250.5	245.6
53.5°	265.7	260.9	256.7	252.1	246.9	242.1
54°	262.1	257.5	253.4	248.6	243.3	238.6
54.5°	258.5	254.1	249.9	245.1	239.8	235.1
55°	255.6	250.6	246.6	241.5	236.3	231.6
55.5°	252.2	247.1	243.0	237.9	232.8	228.0
56°	248.6	243.6	239.4	234.4	229.3	224.5
56.5°	244.8	240.0	235.9	230.9	225.7	220.8
57°	241.2	236.4	232.5	227.4	222.1	217.2
57.5°	237.7	233.0	228.8	223.8	218.5	213.6
58°	234.0	229.5	225.6	220.3	214.9	209.9
58.5°	230.4	226.2	221.7	216.7	211.3	206.4
59°	226.8	222.5	218.2	213.0	207.7	202.6
59.5°	223.6	218.9	214.5	209.3	203.9	199.0
60°	220.1	215.1	211.0	205.6	200.3	195.3
60.5°	216.3	211.6	207.3	202.0	196.6	191.6
61°	212.8	207.8	203.6	198.5	193.0	187.8
61.5°	209.2	204.4	200.0	194.8	189.2	184.2
62°	205.6	200.5	196.3	191.0	185.6	180.4
62.5°	201.8	197.0	192.6	187.3	181.6	176.6
63°	197.8	193.2	188.9	183.5	178.0	172.9
63.5°	193.8	189.6	185.3	179.9	174.4	169.2
64°	190.3	185.9	181.5	176.2	170.5	165.5
64.5°	186.4	182.2	177.6	172.5	166.9	161.9
65°	182.7	178.3	174.0	168.6	163.3	158.0
65.5°	179.0	174.6	170.2	164.9	159.5	154.3
66°	175.2	170.8	166.4	161.2	155.7	150.4



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	163.8	159.7	155.4	150.0	144.4	139.2
68°	160.4	155.9	151.4	146.2	140.6	135.5
68.5°	156.6	152.1	147.7	142.4	136.8	131.8
69°	153.1	148.3	144.1	138.6	133.1	127.9
69.5°	149.0	144.5	140.2	134.8	129.3	124.1
70°	145.2	140.9	136.5	131.1	125.6	120.4
70.5°	142.0	137.1	132.7	127.4	122.0	116.8
71°	138.0	133.2	129.0	123.7	118.2	113.0
71.5°	134.0	129.6	125.5	120.0	114.5	109.6
72°	129.7	125.9	121.8	116.3	110.8	105.6
72.5°	126.3	122.0	117.9	112.6	107.1	102.0
73°	122.8	118.4	114.2	108.9	103.4	98.3
73.5°	119.2	114.8	110.5	105.2	99.6	94.8
74°	115.2	111.1	106.9	101.6	96.1	91.2
74.5°	111.4	107.3	103.2	98.0	92.5	87.6
75°	107.9	103.6	99.6	94.2	89.0	84.0
75.5°	104.3	100.0	95.8	90.7	85.4	80.4
76°	100.3	96.3	92.4	87.1	81.7	76.7
76.5°	96.8	92.9	88.8	83.6	78.1	73.2
77°	93.0	89.2	85.1	79.9	74.5	69.6
77.5°	89.8	85.6	81.5	76.3	71.0	66.2
78°	86.2	82.0	78.0	72.8	67.4	62.7
78.5°	82.4	78.4	74.3	69.3	64.1	59.4
79°	79.0	74.8	70.7	65.9	60.5	56.0
79.5°	75.4	71.2	67.5	62.5	57.1	52.7
80°	71.9	67.7	63.7	59.1	53.9	49.3
80.5°	68.5	64.2	60.4	55.6	50.6	45.9
81°	65.2	60.9	57.4	52.4	47.3	42.7
81.5°	61.5	57.7	53.9	49.0	44.0	39.4
82°	58.1	54.3	50.6	45.7	40.8	36.4
82.5°	54.9	50.9	46.9	42.4	37.5	33.1
83°	51.6	47.5	44.3	39.3	34.4	30.0
83.5°	48.4	44.2	40.3	36.1	31.1	27.1
84°	45.1	41.0	37.5	32.9	28.2	24.1
84.5°	41.9	37.8	34.4	29.6	25.1	21.3
85°	38.8	34.6	31.1	26.6	22.4	18.5
85.5°	35.7	31.6	28.1	23.8	19.5	15.8
86°	32.8	28.4	25.2	20.9	16.7	13.1
86.5°	29.7	25.3	22.1	18.2	13.9	10.6
87°	26.6	22.5	19.3	15.2	11.3	8.3
87.5°	23.7	19.7	16.4	12.6	8.9	6.1
88°	21.2	16.9	13.6	10.1	6.7	3.3
88.5°	18.3	14.1	11.1	7.5	4.2	1.4



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	10.1	6.3	3.2	1.0	0.7	0.6
90.5°	7.5	3.7	1.6	0.7	0.6	0.6
91°	5.1	1.7	0.6	0.6	0.6	0.6
91.5°	2.6	0.6	0.6	0.6	0.6	0.5
92°	0.7	0.5	0.3	0.6	0.6	0.5
92.5°	0.4	0.5	0.3	0.6	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	0.4	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	0.8	0.5	0.5	0.7
104°	0.6	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	1.0	1.0	0.6	0.8
108.5°	0.7	0.5	0.8	1.0	0.9	0.8
109°	0.8	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	1.2	1.1	0.9
110.5°	0.7	0.7	0.9	1.2	1.2	0.9
111°	0.7	0.7	0.9	1.2	1.2	0.9



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	1.4	1.3	1.3	1.2	1.2	1.2
135.5°	1.5	1.3	1.3	1.2	1.2	1.2
136°	1.5	1.3	1.3	1.2	1.2	1.2
136.5°	1.5	1.4	1.3	1.2	1.2	1.2
137°	1.6	1.5	1.3	1.3	1.2	1.2
137.5°	1.6	1.5	1.3	1.3	1.2	1.2
138°	1.5	1.6	1.3	1.2	1.2	1.2
138.5°	1.5	1.6	1.3	1.2	1.2	1.2
139°	1.5	1.6	1.3	1.2	1.2	1.2
139.5°	1.6	1.6	1.3	1.2	1.2	1.2
140°	1.6	1.6	1.3	1.2	1.2	1.2
140.5°	1.5	1.6	1.3	1.2	1.4	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	1.4	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	1.4	1.4
143.5°	1.6	1.8	1.5	1.4	1.5	1.4
144°	1.8	1.8	1.8	1.3	1.6	1.4
144.5°	1.8	1.7	1.9	1.6	1.6	1.4
145°	1.8	1.7	1.9	1.6	1.6	1.4
145.5°	1.8	1.7	1.8	1.8	1.8	1.4
146°	1.8	1.7	1.9	1.8	1.7	1.6
146.5°	1.8	1.7	1.9	1.8	1.8	1.6
147°	1.8	1.8	2.0	1.8	1.8	1.7
147.5°	1.8	1.8	2.0	2.0	2.0	1.8
148°	1.8	1.8	2.0	2.0	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	2.0
149.5°	1.9	1.9	2.0	2.1	2.1	2.0
150°	1.9	2.0	2.1	2.1	2.1	2.0
150.5°	1.9	2.0	2.1	2.1	2.1	2.0
151°	1.8	2.0	2.0	2.2	2.1	2.0
151.5°	1.8	2.0	2.0	2.3	2.1	2.0
152°	1.8	2.0	2.0	2.2	2.1	2.0
152.5°	1.8	2.0	2.0	2.2	2.1	2.0
153°	1.9	2.0	2.0	2.2	2.1	2.0
153.5°	1.9	2.0	2.0	2.2	2.1	2.0
154°	2.0	2.0	2.0	2.2	2.1	2.0
154.5°	2.1	2.0	2.0	2.2	2.1	2.0
155°	2.1	2.0	2.0	2.2	2.1	2.0
155.5°	2.1	2.0	2.0	2.2	2.1	2.0
156°	2.1	2.0	2.0	2.2	2.1	2.0



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P417430

CATALOG NUMBER: SMD6R129SWHE - 4000K

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°	417.9	416.0	414.9	415.3	417.5	419.7	422.1	424.9	426.5	428.9	428.3
22°	415.9	414.1	413.1	413.3	415.9	417.9	420.3	423.2	425.4	428.0	427.1



44°	305.5	302.6	300.8	301.7	305.1	308.6	313.1	318.0	322.1	325.0	326.1
44.5°	302.5	299.5	297.6	298.5	302.0	305.5	310.1	314.8	319.1	322.1	323.7



66.5°	146.8	143.0	141.3	142.0	146.8	151.3	156.8	162.6	167.6	171.1	172.4
67°	142.9	139.2	137.5	138.1	143.0	147.5	153.0	158.9	163.7	167.1	168.4



89°	0.6	0.6	0.5	0.6	0.3	2.0	5.7	9.4	12.8	15.1	16.1
89.5°	0.6	0.5	0.5	0.6	0.3	0.5	3.3	6.9	10.2	12.4	13.4



111.5°	1.0	1.0	1.0	1.2	0.7	0.8	0.8	0.8	0.8	0.7	0.7
112°	1.0	1.0	0.9	1.2	0.7	0.8	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	1.4	1.4
134.5°	1.2	1.2	1.0	1.2	1.4	1.2	1.4	1.3	1.5	1.4	1.4



156.5°	2.0	2.0	2.1	2.1	2.3	2.2	2.3	2.3	2.3	2.3	2.2
157°	2.0	2.0	2.2	2.2	2.3	2.3	2.3	2.3	2.5	2.4	2.2



179°	2.3	2.5	2.4	2.3	2.9	2.5	2.9	3.2	2.6	2.3	2.5
179.5°	2.3	2.5	2.4	2.3	3.1	2.5	2.7	3.1	2.6	2.3	2.5





21.5°	429.6	427.6	425.1	422.8	420.1	417.9
22°	427.4	425.7	423.3	421.0	418.2	415.9



44°	326.0	322.4	318.6	314.2	309.7	305.5
44.5°	322.7	319.4	315.4	311.4	306.6	302.5



66.5°	171.3	167.1	162.7	157.5	151.8	146.8
67°	167.4	163.3	159.1	153.7	148.2	142.9



89°	15.4	11.3	8.3	5.2	1.6	0.6
89.5°	12.7	8.6	5.8	2.4	0.7	0.6



111.5°	0.8	0.8	0.9	1.2	1.2	1.0
112°	0.8	0.8	0.9	1.2	1.2	1.0



134°	1.4	1.3	1.3	1.2	1.2	1.2
134.5°	1.4	1.3	1.3	1.2	1.2	1.2



156.5°	2.2	2.0	2.0	2.2	2.1	2.0
157°	2.2	2.0	2.0	2.2	2.1	2.0



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



(END OF REPORT)